

Add #1

Attachment 1



**NOTICE TO BIDDERS,
SPECIFICATIONS, CONTRACT
AND CONTRACT BOND**

FOR
HIGHWAY IMPROVEMENT
County of Cook, Illinois

John Yonan, P.E.
Superintendent
Cook County Department of
Transportation and Highways

Toni Preckwinkle
Cook County Board President

Shannon E. Andrews
Chief Procurement Officer

Letting: May 13, 2015

CENTER STREET
171st Street to 159th Street
(In the City of Harvey)
Section No.: 02-W5208-02-RP
Route No.: W52
Federal Project No.: M-4003(379)
Federal Job No.: C-91-424-14
Cook County Contract No.: 1555-14616

NOTICE TO PROSPECTIVE BIDDERS
Submit 1 Original and 2 Copies of Proposal
The Specifications can be downloaded at <http://legacy.purchasing/public/index.php> (follow online instructions to register, if you have not already). When the plans are not included in the bid document, you must download the Plans (Drawings) at <ftp://highwayftp.cookcountyil.gov> (user name: highwaypublic; password: ftpt3st!)
Pre-Bid Meeting: Tuesday, April 28, 2015
11 a.m.
Cook County Department of Transportation and Highways
69 W. Washington Street, Suite 2260
Chicago, Illinois 60602
**APPROVED BY BOARD OF
COOK COUNTY COMMISSIONERS**
JUL 29 2015
All questions are due on **Thursday, April 30, 2015** no later than 3:00pm Chicago time
Send all questions via e-mails to: danuta.rusin@cookcountyil.gov

Bid Submitted by:

Bid Bond is included A Cashier's Check or a Certified Check is Included

Name: CAPITOL CEMENT CO., INC. Phone No. 773-478-2200
Email: MIKE@CAPITOLCEMENTCO.COM
6231 NORTH PULASKI ROAD
Address: CHICAGO State IL Zip Code 60646
City _____ State _____ Zip Code _____

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452	E(DBE)	DBE Economic Disclosure Statement Identification of Subcontractors, Suppliers and Sub consultants Form; Electronics Payables Program ("E-Payables"); Veteran's Preference for VBE and SDVBE; Affidavit Veteran's Workplace Preference Public Works Contracts; Economic Disclosure Statement and Execution Document Index; Instructions for Completion of Economic Disclosure Statement and Execution Documents; Certifications; Execution Pages; Insert IDOT Certificate of Eligibility; Insert IDOT Affidavit of Availability; Labor Standards & Prevailing Wage Requirements; DBE Forms

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489	G1	Trust Agreement
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COUNTY OF COOK

CHICAGO, ILLINOIS
NOTICE**TO CONTRACTORS FOR A COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS IMPROVEMENT**

Notice is hereby given that sealed bids for a Department of Transportation and Highways Improvement in the County of Cook, Illinois, will be received at Room 1018, County Building, and 118 North Clark Street, Chicago, Illinois until **10:00 a.m. Wednesday, May 13, 2015** and then publicly opened and read aloud as described below:

Improvement Center Street Township: Thornton

From: 171st Street To: 159th Street

Route W52 Section: 02-W5208-02-RP

Federal Project No.: M-4003-(379) Federal Job No.: C-91-424-14

Cook County Purchasing Contract No. **1555-14616**

LOCATION OF IMPROVEMENT

The proposed improvement is part of the public highway system in the County of Cook, State of Illinois, located by section and route before mentioned, and is indicated on the map showing the County Highway System on file in the office of the County Clerk and also in the office of the Illinois Department of Transportation, Division of Highways, Springfield, Illinois.

CH W52 (Center Street) – 171st Street to 159th Street.

DESCRIPTION OF IMPROVEMENT

It is the intent of this contract to provide for the reconstruction of Center Street from 171st Street to 159th Street. Center Street will be reconstructed to three (3) eleven foot travel lanes with combination concrete curb and gutter. The existing composite pavement of Center Street shall be completely removed and then reconstructed with P. C. Concrete Pavement (12 Inch) along with a 12 inch Aggregate Subgrade. Also included is the removal and replacement of existing drainage structures, main storm sewer, traffic signal work at the intersections of Center Street with 171st Street and 167th Street, temporary traffic signals in order to accommodate construction staging, Illinois Central Railroad Company/CN coordination, water main installation, reconstruction of side streets as indicated on the plans, pavement markings, signing, parkway landscaping with topsoil and seeding, detour routing, traffic protection and all other work as required to complete the improvement.

**COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
SPECIAL PROVISION CHECKLIST**

EFFECTIVE March 10, 2015 v.2015.3

CENTER STREET

171ST STREET TO 159TH STREET

Section: 02-W5208-02-RP

No.	Description	Origin and Date Last Revised
X 1	Definition of Terms, Information for Bidders	(CC) February 27, 2015
1a	MBE WBE Definition of Terms, Information for Bidders	(CC) July 15, 2014
X 2	Bidding Requirements and Conditions For Contract Proposals	(IL-CC) Jan. 15, 2013
X 3	* Pre-Bid Meeting	(CC) Jan. 15, 2013
4	* Wages of Employees on Public Works	(IL-CC) Dec. 26, 2013
X 4a	Davis Bacon Act (Federal Aid)	(FHWA) Apr. 2009
X 4b	Prevailing Wages for Cook County	Current Month
5	Alternate Proposal/Ordinance	(CC) Dec. 28, 2011
6	Responsible Bidder Requirement (Non-Federal Aid)	(IL-CC) Dec. 28, 2011
X 7	FHWA 1273 Required Contract Provisions Federal-Aid Construction Contracts	(FHWA) May 1, 2012
X 7a	Additional State Requirements for Federal-Aid Construction Contracts	(IL Recurring) Jan. 1, 2015
X 7b	Subletting of Contracts (Federal-Aid Contracts)	(IL Recurring) Jan. 1, 2014
X 7c	EEO	(IL Recurring) Nov. 18, 1980
X 7d	Substance Abuse Prevention Program	(IL LRS Recurring) Jan. 1, 2014
X 8a	* Required Disadvantaged Business Participation (DBE)	(IL-CC) July 15, 2013
8b	* MBE/WBE Business Participation	(CC) May 5, 2014
X 8c	Weekly DBE Trucking Reports (FA locally let projects)	(IL BDE) June 2, 2012
9	Specific Equal Employment Opportunity Responsibilities (Non-Federal Aid)	(IL-CC) Jan. 15, 2013
X 10	Insurance Requirements	(CC) Nov. 13, 2014
10a	Township Insurance Requirements	(CC) Nov. 13, 2014
X 11	* Railroad Protective Liability Insurance	(IL-CC) Dec. 26, 2013
X 12a	Indemnification for Cook County	(CC) Dec. 28, 2011
X 12b	Indemnification (Locals)	(CC) Jan. 23, 2012
X 13	Joint Venture Forms	(CC) Jan. 15, 2013
X 14	Addendum Receipt	(CC) Dec. 28, 2009
15	Not Used	
X 16	* Combination Bidding Process	(IL-CC) Jan. 15, 2013
17a	Prompt Pay Mechanisms (Non-Federal Aid)	(CC) Jan. 15, 2013
X 17b	Prompt Pay Mechanisms (Federal Aid)	(FHWA) Current
18-22	Not Used	
X 23	Contract Claims	(IL-CC) Jan. 15, 2013
X 24	Pre-Construction Conference	(CC) Mar. 18, 1980

No.	Description	Origin and Date Last Revised
X 25	Mobilization	(CC) Oct. 20, 2009
26	Contract Extra Work	(CC) Dec. 24, 2012
X 27	Construction Air Quality Diesel Vehicle Emissions Control (Green Construction Ordinance)	(CC) Jan. 15, 2013
X 28	Processing of Extra Work Payment Requests	(CC) Dec. 24, 2012
X 29	Construction Layout Stakes and Survey Control Points	(CC) Jan. 15, 2013
30	* Municipal Coordination/Transfer of Jurisdiction and/or Maintenance	(CC) Jan. 15, 2013
X 31	Engineer's Field Office	(CC) Jan. 15, 2013
X 32	Construction Debris	(CC) July 1, 2006
X 33	* Clean Construction and Demolition Debris	(CC) Jan. 15, 2013
34-44	Not Used	
X 45	Portland Cement Concrete Pavement	(CC) July 1, 2012
X 46	Managing Concrete Waste	(CC) Jan. 1, 2009
47	Class B Patches, Special	(CC) Jan. 1, 2008
48	Class C Patches, Special	(CC) Jan. 1, 2008
49	Pavement Removal and Replacement (10Inch)	(CC) Jan. 1, 2008
X 50	Dowel Bars	(CC) Jan. 1, 2008
51	Structural Fiber Reinforced P.C. Concrete Bus Pad (4 Inch)	(CC) Jan. 1, 2008
52	P.C.C. Bonded Overlay (4 Inch)	(CC) Jan. 1, 2007
53	Diamond Grinding Concrete Pavement	(CC) Jan. 15, 2013
54	Saw Cutting Concrete Overlay	(CC) Jan. 1, 2007
55	Crack Routing and Sealing	(IL-CC) Jan. 1, 2008
56	Hot-Mix Asphalt Surface Course, Rubber Modified	(CC) Jan. 1, 2008
57	Rubberized Asphalt Material	(CC) Jan. 1, 2008
58	Pavement Thickness Deficiency	(CC) Mar. 1, 2008
X 59	Survey Monuments	(CC) Jan. 15, 2013
X 60	Soils Information	(CC) Jan. 15, 2013
X 61	Stockpiled Embankment	(CC) July 1, 2012
62	Borrow Excavation	(CC) July 1, 2000
X 63	Crushed Stone (Temporary Use)	(CC) Jan. 1, 2008
X 64	Aggregate Subgrade, (12 INCH)	(IL) Current
65	Expanded Polystyrene Fill	(CC) Jan. 15, 2013
66	Cellular Concrete Fill	(CC) July 1, 2006
67	GEO-GRID Subgrade Reinforcing Mat	(CC) May 1, 2003
68	Earth Excavation (Special)	(CC) Jan. 15, 2013
69	P.C.C. Surface Finish	(CC) April 7, 2010
X 70	Traffic Barrier Terminal, Type 1, Special	(IL-CC) Jan. 1, 2008
71	Not Used	
X 72	Cutting Hot-Mix Asphalt Surface	(CC) Jan. 1, 2008

No.	Description	Origin and Date Last Revised
73	Hot-Mix Asphalt Driveway Surface Removal	(CC) July 1, 2012
74	Temporary Butt Joints	(CC) Jan. 1, 2008
75	Hot-Mix Asphalt Stabilized Sub base	(CC) Jan. 1, 2008
76	Hot-In-Place Asphalt Recycling by the Heater Scarifying Overlay Method	(CC) July 1, 2011
77	Treatment of Cracks.	(CC) Jan. 1, 2008
78	Strip Reflective Crack Control Treatment, Special	(CC) May 1, 2003
79	Cold Recycled In-Place Bituminous Base Course	(CC) Oct. 1, 2009
80	Temporary By-Pass Pavement (Non-Federal Aid)	(CC) Jan. 1, 2008
X 81	Temporary By-Pass Pavement (Federal Aid)	(CC) July 1, 2011
82	Reflective Crack Control Treatment	(CC) Jan. 1, 2012
83-116	Not Used	
117	Approach Slab Repair	(IL-CC) Sep. 25, 2009
118	Asbestos Waterproofing Membrane & Asbestos Hot-Mix-Asphalt Surface Removal (BDE)	(IL) Current
119	Not Used	
120	Segmental Concrete Block Walls	(IL) Current
X 121	Temporary Soil Retention System	(IL) Current
122	Steel Structures	(CC) Nov. 21, 2007
123	Not Used	
124	Cleaning and Painting Existing Steel Structures	(IL) Current
125	Containment and Disposal of Lead Paint Cleaning Residues	(IL) Current
126	Fine or Coarse Aggregate Embankment	(CC) Jan. 12, 2003
127	Strip Seal Joint Assembly with Elastomeric Concrete Headers	(CC) Oct. 3, 2011
128	Drainage System	(IL) Current
129	Grating	(CC) Jan. 15, 2013
130	Silicone Bridge Joint Sealer	(IL) Current
131	Not Used	
132	Deck Slab Repair	(IL) Current
133	Bridge Deck Latex Concrete Overlay	(IL) Current
134	Surface Finish	(IL-CC) Jan. 1, 2007
135-136	Not Used	
137	Welded Wire Fabric, Epoxy Coated	(CC) Nov. 21, 2007
138	Permanent Steel Sheet Piling	(IL) Current
139	Temporary Sheet Piling	(IL) Current
140	Precast Concrete Junction Chambers	(CC) Nov. 1, 2007
141	Jack and Remove Existing Bearings	(IL) Current
142	Jacking Existing Superstructure	(IL) Current
143	Junction Chamber	(CC) Jan. 1, 2007

No.	Description	Origin and Date Last Revised
144	Neoprene Expansion Joint Removal	(CC) Oct. 10, 1995
145	Structural Repair of Concrete	(IL) Current
146	Polymer Modified Portland Cement Mortar	(IL) Current
147	Concrete Wearing Surface for Use With Deck Beams	(IL) Current
148	Sheet Waterproofing Membrane System	(CC) Nov. 19, 1999
149	Chain Link Fence (Modified)	(CC) Jan. 1, 2004
150-155	Not Used	
156	Storm Sewer, (Ductile Iron Pipe) and Storm Sewers, (Extra Strength Vitrified Clay Pipe) in the City of Chicago	(CC) Oct. 20, 2009
157	Water Main for Installation in the City of Chicago	(CC) Dec. 21, 2009
158	Frames, City Electric in the City of Chicago	(CC) July 1, 2012
159	Lids, City Electric in the City of Chicago	(CC) April 14, 2009
160	Lids and Lids, ADA Compliant in the City of Chicago	(CC) April 14, 2009
161	Various City Drainage and Utility Structure Adjustments in the City of Chicago	(CC) Dec. 21, 2009
162	Storm Sewer Installation in the City of Chicago	(CC) Dec. 1, 2009
X 163	Boring and Jacking Storm Sewers, Sanitary Sewers or Water Mains	(CC) Dec. 1, 2007
164	Storm Sewers Jacked in Place (Over 36 In. Dia.)	(CC) Dec. 21, 2009
165	Storm Sewer Drilled and Pushed (36 In. Dia. Max.)	(CC) Dec. 1, 2007
166	Storm Sewers, Abandon and Fill	(CC) Jan. 15, 2013
167	Storm Sewer to be Televised	(CC) July 1, 2012
168	Connecting Existing Field Drain Tile	(CC) July 1, 2012
X 169	Plugging Existing Drains and Sewers	(CC) Dec. 1, 2007
170	Blocking Existing Drains and Sewers	(CC) Dec. 21, 2009
171	Manholes to be Reconstructed, Special; Catch Basins to be Reconstructed, Special; Valve Vaults to be Reconstructed, Special	(CC) Dec. 1, 2007
172	Not Used	
173	Manholes, Type A, with Restrictor Plate, Frames and Lids	(CC) July 1, 2012
174	Not Used	
X 175	Lids and Frames and Lids	(CC) Jan. 15, 2013
176	Frames and Lids to be Adjusted, Special	(CC) Dec. 21, 2009
177	Headwall Inlet and Grate	(CC) July 1, 2012
X 178	Flared End Sections to be Removed, Flared End Sections to be Relocated	(CC) Dec. 30, 2008
X 179	Bracing and Sheeting	(CC) Dec. 1, 2007
X 180	Pavement Replacement	(CC) July 1, 2011
181	Duck Bill Elastomeric Check Valve	(CC) July 1, 2012
182	Catch Basin Oil and Debris Hoods	(CC) Jan. 15, 2013
183	Frames and Lids to be Adjusted, Special (Pavement Recycling)	(CC) Jan. 1, 2013
184	Not Used	

	No.	Description	Origin and Date Last Revised
X	185	* Cooperation With Utilities	(CC) Feb. 10, 2012
	186	Water Valve Boxes to be Adjusted and Domestic Meter Vaults to be Adjusted	(CC) Dec. 21, 2009
	187	Domestic Water Service Boxes to be Adjusted	(CC) Dec. 21, 2009
	188	Filling Existing Valve Vaults	(CC) Dec. 21, 2009
	189	Valve Vaults to be Removed	(CC) Dec. 21, 2009
	190	Water Main Installation	(CC) Dec. 1, 2009
X	191	Fire Hydrants Vertical Adjustment	(CC) Dec. 21, 2009
	192	Sanitary Sewer Installation	(CC) July 1, 2012
	193	Sanitary Manholes	(CC) Dec. 21, 2009
X	194	Waterproofing of Existing Sanitary Manholes	(CC) July 1, 2012
	195-199	Not Used	
X	200	Cleaning Existing Manholes, Catch Basins or Inlets and Cleaning Existing Storm Sewer and Pipe Culverts	(CC) Dec. 1, 2008
	201	Not Used	
X	202	* National Pollutant Discharge Elimination System	(CC) January 1, 2013
	203	Not Used	
X	204	Maintaining Drainage and Stream Protection	(CC) Dec. 1, 2007
	205	Storm Water Pollution Separation System	(CC) July 1, 2012
	206	Storm Water Pollution Separation System (SPECIAL)	(CC) Dec. 1, 2007
	207	Storm Water Pollution Separation System (In-Line)	(CC) July 1, 2012
	208-210	Not Used	
	211	Seeding	(CC) Sept. 1, 2002
X	212	Sodding	(CC) Jan. 15, 2013
	213	Trees To Be Planted	(CC) Jan. 1, 2013
	214	Salvaging and Transplanting Trees; Salvaging and Transplanting Shrubs	(CC) Sept. 1, 2002
	215	Planting Woody Plants	(CC) Jan. 1, 1997
	216	Seeding, Fine Fescue Blend	(CC) Jan. 1, 2007
	217	Seeding, Class 4B Modified	(CC) Jan. 1, 2007
	218-226	Not Used	
X	227	Work Zone Traffic Control Surveillance	(IL) Current
X	228	Traffic Control Devices – Detour Routing	(CC) July 1, 2012
	229	Not Used	
X	230	Sign Identification Decal	(CC) Jan. 15, 2013
X	231	Traffic Protection	(CC) July 1, 2012
	232-235	Not Used	
X	236	Project Signs Plaque	(CC) Jan. 15, 2013
X	237	Eradication of Existing Pavement Marking	(CC) Dec. 1, 2009
X	238	Raised Reflective Pavement Marker	(IL-CC) July 1, 2012

No.	Description	Origin and Date Last Revised
239-240	Not Used	
X 241	Traffic Signal Work General	(ILD1CC) Jan. 15, 2013
242	Construction at Railroad Crossing	(CC) June 1, 2012
243	Signal Head, Optically Programmed Signal Head and Pedestrian Signal Head	(CC) June 1, 2012
X 244	Light Emitting Diode (LED) Traffic Signal	(ILD1CC) June 1, 2012
245	Light Emitting Diode (LED) Pedestrian Countdown Signal Head	(ILD1CC) June 1, 2012
X 246	Traffic Signal Backplate	(ILD1CC) June 1, 2012
247	Illuminated Sign, Light Emitting Diode	(ILD1CC) June 1, 2012
X 248	Traffic Signal Post, Pedestrian Pushbutton Post	(ILD1CC) June 1, 2012
X 249	Steel Mast Arm Assembly and Pole and/or Steel Combination Mast Arm Assembly and Pole	(ILD1CC) June 1, 2012
X 250	Traffic Actuated Controller, Traffic Actuated Controller with Cabinet, Inductive Loop Detector	(ILD1CC) Jan. 15, 2013
251	Master Controller	(ILD1CC) Jan. 15, 2013
X 252	Detector Loop	(ILD1CC) Jan. 15, 2013
X 253	Video Detection System For Temporary Traffic Signal Installation	(CC) June 1, 2012
254	Pedestrian Pushbutton	(ILD1CC) June 1, 2012
X 255	Conduit	(IL-CC) June 1, 2012
X 256	Coilable Non-Metallic Conduit	(ILD1CC) June 1, 2012
257	Not used	
X 258	Electric Cable	(ILD1CC) June 1, 2012
259	Railroad Interconnect Cable	(ILD1CC) June 1, 2012
260	Fiber Optic Cable	(ILD1CC) June 1, 2012
X 261	System Ground and Grounding Cable	(ILD1CC) June 1, 2012
X 262	Grounding Existing Handhole Frame and Cover	(ILD1) Current
X 263	Service Installation, Pole Mounted	(ILD1CC) June 1, 2012
264	Service Installation, Ground Mounted	(ILD1CC) June 1, 2012
X 265	* Electric Service	(CC) Jan. 15, 2013
X 266	Handhole	(ILD1CC) June 1, 2012
267	Rebuild Existing Handhole, Rebuild Existing Heavy Duty Handhole, Rebuild Existing Double Handhole	(CC) June 1, 2012
X 268	Concrete Foundation	(ILD1CC) June 1, 2012
269	Modify Existing Type "D" Foundation	(CC) June 1, 2012
X 270	Remove Existing Traffic Signal Equipment	(ILD1CC) June 1, 2012
X 271	Temporary Traffic Signal Installation	(ILD1CC) Jan. 15, 2013
272	Maintenance of Existing Traffic Signal Installation	(ILD1CC) June 1, 2012
X 273	Emergency Vehicle Priority System	(ILD1CC) June 1, 2012
X 274	Relocate Existing Emergency Vehicle Priority System, Detector Unit	(CC) June 1, 2012
X 275	Relocate Existing Emergency Vehicle Priority System, Phasing Unit	(CC) June 1, 2012
276	Confirmation Beacon System	(CC) June 1, 2012

No.	Description	Origin and Date Last Revised
277	Re-Optimize Traffic Signal System	(ILD1CC) Jan. 15, 2013
278	Optimize Traffic Signal System	(ILD1CC) Jan. 15, 2013
279	Median Removal and Replacement	(CC) June 1, 2012
280	Sidewalk Removal and Replacement	(CC) June 1, 2012
281	Relocate Existing Light Standard and Luminaire Complete in Place	(CC) Jan. 15, 2013
282	Maintenance Of Lighting System	(ILD1CC) June 1, 2012
283	City Electric Manholes to be Adjusted	(CC) June 1, 2012
X 284	Uninterruptible Power Supply (UPS)	(ILD1CC) June 1, 2012
285	Traffic Signal Cabinet Load Switch	(CC) June 1, 2012
X 286	Temporary Traffic Signal Timings	(ILD1CC) June 1, 2012
287	Combination Lighting and Traffic Signal Service Installation, Pole Mounted	(CC) June 1, 2012
X 288	Illuminated Street Name Sign	(ILD1CC) June 1, 2012
289	Relocate Existing Illuminated Street Name Sign	(CC) June 1, 2012
X 290	Video Detection System, Single Camera Processor Video Detection	(CC) June 1, 2012
291	Video Detection System, Complete Intersection	(CC) June 1, 2012
292	Not Used	
293	Uninterruptible Power Supply Without Cabinet	(CC) June 1, 2012
294	Modifying Existing Controller Cabinet	(ILD1CC) June 1, 2012
295-300	Not Used	

Additional Inserted Special Provisions (As Required)

- 033a IEPA LPC-663
- 185a Status of Utilities to be Adjusted
- 400 Contract Exhibit A Scheduling
- 401 IDOT Recurring Special Provision Checklist (Jan 1, 2015)
- 402 IDOT Local Roads and Streets Recurring Special Provisions Checklist (Jan 1, 2015)
- 403 IDOT Bureau of Design and Environment Checklist (April 24, 2015 and June 12, 2015 lettings)
- 404 IDOT Bureau of Local Roads and Streets District 1 Checklist (01/09/2015)
- 405 City of Harvey Water Main Special Provisions
- 406 Flagging Special Provisions
- 407 Right of Way License Agreement Information
- 408 Traffic Control Devices - Detour Routing – North Crossing
- 409 Traffic Control Devices - Detour Routing – South Crossing
- 410 Roadway and Appurtenances

Additional Document Inclusions (Required)

*0 01	Cover Sheet	(CC) Oct. 8, 2013
*0 02	Notice Sheet	(CC) Jan. 15, 2013
*C	Proposal Sheet	(CC) Jan. 1, 2008
*E(DBE)	DBE Economic Disclosure Statement Identification of Subcontractors, Suppliers and Sub consultants Form; Electronics Payables Program ("E-Payables"); Veteran's Preference for VBE and SDVBE; Affidavit Veteran's Workplace Preference Public Works Contracts; Economic Disclosure Statement and Execution Document Index; Instructions for Completion of Economic Disclosure Statement and Execution Documents; Certifications; Execution Pages; Insert IDOT Certificate of Eligibility; Insert IDOT Affidavit of Availability; Labor Standards & Prevailing Wage Requirements; DBE Forms	(CC) April 7, 2015
*E(MWBE)	MBE/WBE Economic Disclosure Statement: Identification of Subcontractors, Suppliers and Sub consultants Form; Electronics Payables Program ("E-Payables"); Veteran's Preference for VBE and SDVBE; Affidavit Veteran's Workplace Preference Public Works Contracts; Economic Disclosure Statement and Execution Document Index; Instructions for Completion of Economic Disclosure Statement and Execution Documents; Certifications; Execution Pages; Insert IDOT Certificate of Eligibility; Insert IDOT Affidavit of Availability; Labor Standards & Prevailing Wage Requirements; M/WBE Forms	(CC) April 7, 2015
F	Surety's Statement Of Qualification for Bonding	(CC) June 2, 2011
*G1	Trust Agreement	(CC) Jan. 15, 2013
*H	Performance and Payment of Bond Form	(CC) June 9, 2011
*I	Contract	(CC) Jan. 15, 2013
*J	Schedule of Prices Sheets	(CC) Dec. 28, 2011
*K	Proposal Bid Bond	(CC) Jan. 15, 2013
*L	Bid Deposit Form	(CC) Jan. 15, 2013

* Special Provisions marked with an asterisk (*) have information that must be filled in prior to inclusion in the Contract Documents.

Origin of Special Provisions

(CC)	Initiated by Cook County Department of Transportation and Highways
(IL) Current	Initiated by Illinois Department of Transportation
(ILD1) Current	Initiated by Illinois Department of Transportation District 1
(IL-CC)	Initiated by the Illinois Department of Transportation and amended by Cook County Department of Transportation and Highways
(ILD1-CC)	Initiated by Illinois Department of Transportation District 1 and amended by Cook County Department of Transportation and Highways
(IL Recurring)	Initiated by Illinois Department of Transportation Recurring Special Provisions
(IL LR Recurring)	Initiated by Illinois Department of Transportation Local Roads Recurring Special Provisions
(IL BDE)	Initiated by Illinois Department of Transportation Bureau of Design and Environment
(IL LR)	Initiated by Illinois Department of Transportation Bureau of Local Roads and Streets
(IL D-1)	Initiated by Illinois Department of Transportation District 1

Initiating Bureau/Division	Cook County Department of Transportation and Highways Special Provision Catalog Number
Contract Documents Office	1-20
Construction Bureau	21-40
Pavement Geometrics Division	41-114
Structural Division	115-155
Drainage Division	156-210
Landscaping Division	211-225
Transportation and Planning Bureau	226-240

CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

<u>CHECK SHEET #</u>	<u>RECURRING SPECIAL PROVISIONS</u>	<u>PAGE NO.</u>
1	<input checked="" type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	163
2	<input checked="" type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	166
3	<input checked="" type="checkbox"/> EEO	167
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	177
5	<input type="checkbox"/> Required Provisions - State Contracts	182
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	188
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	189
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	190
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	191
10	<input type="checkbox"/> Construction Layout Stakes	194
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	197
12	<input type="checkbox"/> Subsealing of Concrete Pavements	199
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	203
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	205
15	Reserved	206
16	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	207
17	<input type="checkbox"/> Polymer Concrete	208
18	<input type="checkbox"/> PVC Pipeliner	210
19	<input type="checkbox"/> Pipe Underdrains	211
20	<input type="checkbox"/> Guardrail and Barrier Wall Delineation	212
21	<input type="checkbox"/> Bicycle Racks	216
22	Reserved	218
23	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	219
24	<input type="checkbox"/> Work Zone Public Information Signs	221
25	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	222
26	<input type="checkbox"/> English Substitution of Metric Bolts	223
27	<input type="checkbox"/> English Substitution of Metric Reinforcement Bars	224
28	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	225
29	Reserved	226
30	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	227
31	<input checked="" type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	235
32	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	251
33	<input type="checkbox"/> Pavement Marking Removal	253
34	<input type="checkbox"/> Preventive Maintenance – Bituminous Surface Treatment	254
35	<input type="checkbox"/> Preventive Maintenance – Cape Seal	260
36	<input type="checkbox"/> Preventive Maintenance – Micro-Surfacing	275
37	<input type="checkbox"/> Preventive Maintenance – Slurry Seal	286
38	<input type="checkbox"/> Temporary Raised Pavement Markers	296
39	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	297

CHECK SHEET
FOR
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

The following LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

<u>CHECK SHEET #</u>		<u>PAGE NO.</u>
LRS 1	Reserved	301
LRS 2	<input type="checkbox"/> Furnished Excavation	302
LRS 3	<input type="checkbox"/> Work Zone Traffic Control Surveillance	303
LRS 4	<input type="checkbox"/> Flaggers in Work Zones	304
LRS 5	<input type="checkbox"/> Contract Claims	305
LRS 6	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	306
LRS 7	<input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	312
LRS 8	Reserved	318
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	319
LRS 10	Reserved	320
LRS 11	<input type="checkbox"/> Employment Practices	321
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	323
LRS 13	<input type="checkbox"/> Selection of Labor	325
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	326
LRS 15	<input type="checkbox"/> Partial Payments	329
LRS 16	<input type="checkbox"/> Protests on Local Lettings	330
LRS 17	<input checked="" type="checkbox"/> Substance Abuse Prevention Program	331
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	332

BDE SPECIAL PROVISIONS
For the April 24 and June 12, 2015 Lettings

The following special provisions indicated by an "x" are applicable to this contract and will be included by the Project Development and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80240	1	Above Grade Inlet Protection	July 1, 2009	Jan. 1, 2012
80099	2	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
80274	3	Aggregate Subgrade Improvement	April 1, 2012	Jan. 1, 2013
80192	4	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	5	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2013
80241	6	Bridge Demolition Debris	July 1, 2009	
50261	7	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50481	8	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491	9	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531	10	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80310	11	✓ Coated Galvanized Steel Conduit	Jan. 1, 2013	Jan. 1, 2015
80341	12	✓ Coilable Nonmetallic Conduit	Aug. 1, 2014	Jan. 1, 2015
80198	13	Completion Date (via calendar days)	April 1, 2008	
80199	14	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
* 80293	15	Concrete Box Culverts with Skews ≤ 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	April 1, 2015
80294	16	Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet	April 1, 2012	April 1, 2014
80311	17	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	
80334	18	Concrete Gutter, Curb, Median, and Paved Ditch	April 1, 2014	Aug. 1, 2014
80277	19	Concrete Mix Design – Department Provided	Jan. 1, 2012	Jan. 1, 2014
80261	20	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80335	21	Contract Claims	April 1, 2014	
* 80029	22	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 2, 2015
* 80358	23	Equal Employment Opportunity	April 1, 2015	
80265	24	✓ Friction Aggregate	Jan. 1, 2011	Nov. 1, 2014
80229	25	Fuel Cost Adjustment	April 1, 2009	July 1, 2009
80329	26	Glare Screen	Jan. 1, 2014	
80304	27	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Aug. 1, 2014
80246	28	✓ Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2012
80322	29	✓ Hot-Mix Asphalt – Mixture Design Composition and Volumetric Requirements	Nov. 1, 2013	Nov. 1, 2014
80323	30	✓ Hot-Mix Asphalt – Mixture Design Verification and Production	Nov. 1, 2013	Nov. 1, 2014
* 80347	31	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	April 1, 2015
80348	32	✓ Hot-Mix Asphalt – Prime Coat	Nov. 1, 2014	
80315	33	Insertion Lining of Culverts	Jan. 1, 2013	Nov. 1, 2013
80351	34	Light Tower	Jan. 1, 2015	
80336	35	Longitudinal Joint and Crack Patching	April 1, 2014	
* 80324	36	LR Type Culvert Bump Tables	Nov. 1, 2013	April 1, 2015
* 80325	37	LR D Type Culvert Bump Tables	Nov. 1, 2013	April 1, 2015
80045	38	Material Transfer Device	June 15, 1999	Aug. 1, 2014
80342	39	✓ Mechanical Side Tie Bar Inserter	Aug. 1, 2014	Jan. 1, 2015
80165	40	Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80337	41	Paved Shoulder Removal	April 1, 2014	
80349	42	Pavement Marking Blackout Tape	Nov. 1, 2014	
80298	43	Pavement Marking Tape Type IV	April 1, 2012	

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80254	44	Pavement Patching	Jan. 1, 2010	
80352	45	Pavement Striping - Symbols	Jan. 1, 2015	
80359	48	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	
80353	47	Portland Cement Concrete Inlay or Overlay	Jan. 1, 2015	April 1, 2016
80338	48	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	April 1, 2014	
80343	49	✓ Precast Concrete Handhole	Aug. 1, 2014	
80300	50	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	
80328	51	Progress Payments	Nov. 2, 2013	
34261	52	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	53	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	54	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	April 1, 2014
80350	55	✓ Retroreflective Sheeting for Highway Signs	Nov. 1, 2014	
80327	56	✓ Reinforcement Bars	Nov. 1, 2013	
80344	57	Rigid Metal Conduit	Aug. 1, 2014	
80354	58	Sidewalk, Corner, or Crosswalk Closure	Jan. 1, 2015	April 1, 2015
80340	59	Speed Display Trailer	April 2, 2014	
80127	60	Steel Cost Adjustment	April 2, 2004	April 1, 2009
80317	61	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	
80355	62	Temporary Concrete Barrier	Jan. 1, 2015	
80301	63	Tracking the Use of Pesticides	Aug. 1, 2012	
80356	64	Traffic Barrier Terminals Type 6 or 6B	Jan. 1, 2015	
20338	65	Training Special Provisions	Oct. 15, 1975	
80318	66	Traversable Pipe Grate	Jan. 1, 2013	April 1, 2014
80345	67	Underpass Luminaire	Aug. 1, 2014	April 1, 2015
80357	68	Urban Half Road Closure with Mountable Median	Jan. 1, 2015	
80346	69	Waterway Obstruction Warning Luminaire	Aug. 1, 2014	April 1, 2015
80288	70	✓ Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2014
80302	71	✓ Weekly DBE Trucking Reports	June 2, 2012	
80289	72	Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
80071	73	Working Days	Jan. 1, 2002	

The following special provisions are in the 2015 Supplemental Specifications and Recurring Special Provisions:

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80292	Coarse Aggregate in Bridge Approach Slabs/Footings	Articles 1004.01(b) and 1004.02(f)	April 1, 2012	April 1, 2013
80303	Granular Materials	Articles 1003.04, 1003.04(c), and 1004.05(c)	Nov. 1, 2012	
80330	Pavement Marking for Bike Symbol	Article 780.14	Jan. 1, 2014	
80331	Payrolls and Payroll Records	Recurring CS #1 and #5	Jan. 1, 2014	
80332	Portland Cement Concrete – Curing of Abutments and Piers	Article 1020.13	Jan. 1, 2014	
80326	Portland Cement Concrete Equipment	Article 1103.03(a)(5)	Nov. 1, 2013	
80281	Quality Control/Quality Assurance of Concrete Mixtures	Recurring CS #31	Jan. 1, 2012	Jan. 1, 2014
80283	Removal and Disposal of Regulated Substances	Articles 669.01, 669.08, 669.09, 669.14, and 669.16	Jan. 1, 2012	Nov. 2, 2012
80319	Removal and Disposal of Surplus Materials	Article 202.03	Nov. 2, 2012	
80307	Seeding	Article 250.07	Nov. 1, 2012	
80339	Stabilized Subbase	Article 312.06	April 1, 2014	
80333	Traffic Control Setup and Removal Freeway/Expressway	Articles 701.18(l) and 701.19(a)	Jan. 1, 2014	

The following special provisions require additional information from the designer. The additional information needs to be included in a separate document attached to this check sheet. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- Bridge Demolition Debris
- Building Removal-Case I
- Building Removal-Case II
- Building Removal-Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

SPECIAL PROVISIONS CHECK LIST

Generated - 9/26/14 8:58 AM Revised – 1/09/15

Designer:	<u>Robinson Engineering</u>	FAP:	<u>M-4003(379)</u>
Contract No.:	<u>C-91-424-14</u>	Section:	<u>02-W5208-02-RP</u>
		County:	<u>Cook</u>

√	Dir	File Name	Spec Title	Spec Dates
X	DES\	1048945R.DOC	Maintenance of Roadways	E 9/30/85 R 11/1/96
	DES\	1078948R.DOC	Tollway Permit and Bond	E 01/13/89
	DES\	1080301.doc	Restriction on Working Days After a Completion Date	E 01/21/03 R 01/01/07
	DES\	1086587r.doc	Failure to Complete the Work on Time	E 09/30/85 R 01/01/07
	DES\	1088949R.DOC	Completion Date Plus Working Days	E 09/30/85 R 01/01/07
	DES\	1088951R.DOC	Incentive Payment Plan	E 10/01/95 R 01/01/07
	DES\	2080101.doc	RAP For Non-Porous Embankment and Backfill	E 04/01/01 R 01/01/07
	DES\	4020211.doc	Aggregate Surface Course for Temporary Access	E 04/01/01 R 01/02/07
	DES\	4408955R.DOC	Pavement Removal, Special	E 01/13/89 R 01/01/07
	DES\	5028956R.DOC	Rock Excavation for Structures, Special	E 09/30/85 R 01/01/07
	DES\	5038957R.DOC	Rustication Finish For Retaining Walls	E 05/01/90 R 01/01/07
	DES\	5501234R.DOC	Storm Sewer Adjacent to or Crossing Water Main	E 02/01/96 R 01/01/07
	DES\	5508960R.DOC	Storm Sewers & Sewer Connections to City of Chicago Sewers	E 09/30/85 R 01/01/07
	DES\	6008961R.DOC	Slotted Drain	E 09/30/85 R 01/01/07
	DES\	6028962R.DOC	Cleaning Existing Drainage Structures	E 09/30/85 R 12/01/11
	DES\	6068964R.DOC	Concrete Curb, Type B (Modified)	E 09/30/85 R 01/01/07
	DES\	6068965R.DOC	Stabilized Median Surface	E 09/30/85 R 01/01/07
	DES\	6370499.doc	Aggregate For Concrete Barrier (D-1)	E 03/11/04 R 01/24/08
	DES\	7016789.DOC	Traffic Control & Protection (Arterials)	E 02/01/96 R 03/01/11
	DES\	9018967R.DOC	Traffic Control Plan	E 09/30/85 R 01/01/07
	DES\	Adjustments-Reconstructs.doc	Adjustments and Reconstructions	E 03/15/11
	DES\	AGG SUBGR IMPROVEMENT(D1).doc	Aggregate Subgrade Improvement (D1)	E 02/22/12 R 11/01/14
	DES\	Bit Coated Agg Slopewall.doc	Bituminous Coated Aggregate Slopewall	E 01/01/07
X	DES\	CA Backfill Trench Backfill Bedding (D1).doc	Coarse Aggregate for Backfill, Trench Backfill and Bedding (D-1)	E 11/01/11 R 11/01/13
	DES\	CAC-BMPR.doc	Calcium Aluminate Cement (BMPR)	E 07/01/13
	DES\	Conc Noise Abate Wall(D1).docx	Concrete Noise Abatement Walls (Absorptive & Reflective)(Dist 1)	E 09/05/08 R 01/12/11
	DES\	CTA Flag Coordination.doc	CTA Flagging and Coordination	E 05/14/98 R 08/27/09
	DES\	Drain Inlet Prot Undr Traff(D1).doc	Drainage And Inlet Protection Under Traffic (D-1)	E 04/01/11 R 04/02/11
	DES\	Embankment I.doc	Embankment I	E 03/01/11 R 11/01/13
	DES\	Embankment II.doc	Embankment II	E 03/01/11 R 11/01/13
	DES\	ENG FIELD OFF TY A (SP).doc	Engineer's Field Office Type A (Special)	E 12/01/11 R 05/01/13
	DES\	Grade Shape Shldr.doc	Grading and Shaping Shoulders	E 12/28/01 R 01/01/07
X	DES\	GTR Modified Binder(D-1).doc	Ground Tire Rubber (GTR) Modified Asphalt Binder (D-1)	E 06/29/06 R 01/01/13
X	DES\	Heat of Hydration Ctrl (D1).doc	Heat of Hydration Control (D-1)	E 11/01/13
X	DES\	HMA Mix Des Reqmts(D-1).doc	HMA Mixture Design Requirements (D-1)	E 01/01/13 R 11/01/14
	DES\	HMA QCP (BMPR).doc	Hot Mix Asphalt Quality Control for Performance (BMPR)	E 01/01/12 R 12/01/14
	DES\	HMA Quantity Correction (BMPR).doc	Hot Mix Asphalt – Quantity Correction (BMPR)	E 10/01/14 R 10/02/14
	DES\	Hot in Place Recycle.doc	Pavement Rehabilitation by Hot In-Place Recycling	E 07/11/03 R 05/05/14
	DES\	LightwtCellularConcFill(D1).doc	Lightweight Cellular Concrete Fill (D-1)	E 11/11/01 R 02/28/13
	DES\	Pub Conv Sfty(D1).doc	Public Convenience and Safety (D-1)	E 05/01/12 R 07/15/12
X	DES\	RAP-RAS(D1).doc	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) (D-1)	E 11/01/12 R 01/02/15
	DES\	Slipform Paving (D-1).doc	Slipform Paving (D-1)	E 11/01/14
	DES\	Status Utility Adj-90day.doc	Status Of Utilities To Be Adjusted	E 01/30/87 R 01/24/13
	DES\	TEMP PVMT.doc	Temporary Pavement	E 03/01/03 R 04/10/08
	DES\	WINTERIZED TEMP ACCESS 3-5- 12.doc	Winterized Temporary Access	E 01/01/12 R 03/05/12

SPECIAL PROVISIONS CHECK LIST

Generated - 9/26/14 8:58 AM Revised – 1/09/15

Designer:	<u>Robinson Engineering</u>	FAP:	<u>M-4003(379)</u>
Contract No.:	<u>C-91-424-14</u>	Section:	<u>02-W5208-02-RP</u>
		County:	<u>Cook</u>

Bureau of Electrical Special Provisions

ELEV	Elec Serv Disc lgt sig 2012.doc	Electric Service Disconnect, Lighting And Traffic Signal	E: 1/1/2012
ELEV	General Electrical Provisions 2012.doc	General Electrical Requirements GPS	E 1/1/2012
ELEV	HPS Underpass 2012.doc	Underpass Luminaire, HPS, Stainless Steel Housing	E 1/1/2012
ELEV	Junction Box Embedded 2012.doc	Junction Box Embedded In Structure	E 1/1/2012
ELEV	Lighting Controller SCADA 2012.doc	Lighting Controller, Radio Control, Duplex, Console Type	E 1/1/2012
ELEV	Lighting Maint 2012.doc	Maintenance Of Lighting Systems	E 1/1/2012
ELEV	Light Tower 2012.doc	Light Tower	E 1/1/2012
ELEV	Luminaire 2012.doc	Luminaire	E 1/1/2012
ELEV	Luminaire safety cable 2012.DOC	Luminaire Safety Cable Assembly	E 1/1/2012
ELEV	Protect Underpass LightingSystem 2012.doc	Protect & Maintain Underpass Luminaires	E 1/1/2012
ELEV	Raceway Exposed 2012.DOC	Exposed Raceways	E 1/1/2012
ELEV	Raceway Underground 2012.DOC	Underground Raceways	E 1/1/2012
ELEV	Service Connection 2012.doc	Electric Utility Service Connection (ComEd)	E 1/1/2012
ELEV	Service Install 2012.doc	Electric Service Installation	E 1/1/2012
ELEV	Temp light SingleLaneStg 2012.doc	Temporary Lighting For Single Lane Staging	E 01/01/2012
ELEV	Temp pole install 2012.DOC	Temporary Wood Pole, Install Only	E 1/1/2012
ELEV	Unit Duct 2012.DOC	Unit Duct	E 1/01/2012
ELEV	Wire Cable 2012.doc	Wire and Cable	E 1/1/2012

Guide Bridge Special Provisions

GBS\	gbsp04.doc	Polymer Modified Portland Cement Mortar	E 6/7/94 R 07/26/13
GBS\	gbsp12.doc	Drainage System	E 06/10/94 R 01/01/07
GBS\	gbsp13.doc	Floating Bearings	E 10/13/88 R 10/30/12
GBS\	gbsp14.doc	Jack and Remove Existing Bearings	E 04/20/94 R 01/01/07
GBS\	gbsp15.doc	Three Sided Precast Concrete Structure	E 07/12/94 R 10/15/11
GBS\	gbsp16.doc	Jacking Existing Superstructure	E 01/11/93 R 01/01/07
GBS\	gbsp17.doc	Bonded Prefomed Joint Seal	E 07/12/94 R 01/01/07
GBS\	gbsp18.doc	Modular Expansion Joint	E 5/19/94 R 04/18/14
GBS\	gbsp21.doc	Cleaning and Painting Contact Surfaces of Existing Steel Structures	E 05/15/91 R 05/18/11
GBS\	GBSP25.doc	Cleaning and Painting Existing Steel Structures	E 10/02/01 R 04/19/12
GBS\	GBSP26.doc	Containment and Disposal of Lead Paint Cleaning Residues	E 10/02/01 R 04/30/10
GBS\	gbsp28.doc	Deck Slab Repair	E 05/15/95 R 10/15/11
GBS\	gbsp29.doc	Bridge Deck Microsilica Concrete Overlay	E 05/15/95 R 10/30/12
GBS\	GBSP30.doc	Bridge Deck Latex Concrete Overlay	E 05/15/95 R 01/18/11
GBS\	gbsp31.doc	Bridge Deck HRM Concrete Overlay	E 01/21/00 R 10/30/12
GBS\	gbsp32.doc	Temporary Sheet Piling	E 09/02/94 R 01/31/12
GBS\	gbsp33.doc	Pedestrian Truss Superstructure	E 1/13/98 R 04/18/14
GBS\	GBSP34.doc	Concrete Wearing Surface	E 6/23/94 R 02/06/13
GBS\	GBSP35.doc	Silicone Bridge Joint Sealer	E 08/01/95 R 10/15/11
GBS\	GBSP38.doc	Mechanically Stabilized Earth Retaining Walls	E 02/03/99 R 08/29/14
GBS\	GBSP42.doc	Drilled Soldier Pile Retaining Wall	E 09/20/01 R 01/03/14
GBS\	GBSP43.doc	Driven Soldier Pile Retaining wall	E 11/13/02 R 01/03/14
GBS\	GBSP44.doc	Temporary Soil Retention System	E 12/30/02 R 05/11/09
GBS\	GBSP45.doc	Bridge Deck Thin Polymer Overlay	E 05/07/97 R 02/06/13
GBS\	GBSP46.doc	Geotextile Retaining walls	E 09/19/03 R 07/26/13
GBS\	GBSP51.doc	Pipe Underdrains for Structures	E 05/17/00 R 01/22/10
GBS\	GBSP53.doc	Structural Repair of Concrete	E 03/15/06 R 08/29/14
GBS\	GBSP55.doc	Erection of Curved Steel Structures	E 06/01/07

SPECIAL PROVISIONS CHECK LIST

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		County:	<u>Cook</u>

GBS\	GBSP56.doc	Setting Piles In Rock	E 11/14/96 R 04/19/12
GBS\	GBSP57.doc	Temporary Mechanically Stabilized Earth Retaining Walls	E 01/06/03 R 08/29/14
GBS\	GBSP59.doc	Diamond Grinding and Surface Testing Bridge Sections	E 12/06/04 R 01/03/14
GBS\	GBSP60.doc	Containment and Disposal of Non Lead Paint Cleaning Residues	E 11/25/04 R 03/06/09
GBS\	GBSP61.doc	Slipform Parapet	E 06/01/07 R 08/17/12
GBS\	GBSP62.doc	Concrete Deck Beams	E 06/13/08 R 10/09/09
GBS\	GBSP64.doc	Segmental Concrete Block Wall	E 01/07/99 R 10/30/12
GBS\	GBSP65.doc	Precast Modular Retaining Wall	E 03/19/01 R 01/03/14
GBS\	gbsp67.doc	Structural Assessment Reports for Contractor's Means and Methods	E 03/06/09
GBS\	GBSP70.doc	Braced Excavation	E 08/09/95 R 05/18/11
GBS\	GBSP71.doc	Aggregate Column Ground Improvement	E 01/15/09 R 10/15/11
GBS\	GBSP72.doc	Bridge Deck Fly Ash or Ground Granulated Blast-Furnace Concrete Overlay	E 01/18/11 R 10/15/11
GBS\	GBSP73.doc	Cofferdams	E 10/15/11 R
GBS\	GBSP74.doc	Permanent Steel Sheet Piling (LRFD)	E 01/31/12 R 08/17/12
GBS\	GBSP75.doc	Bond Breaker for Prestressed Concrete Bulb-T Beams	E 04/19/12 R
GBS\	GBSP76.doc	Granular Backfill for Structures	E 04/19/12 R 10/30/12
GBS\	GBSP77.doc	Weep Hole Drains for Abutments, Wingwalls, Retaining Walls and Culverts	E 04/19/12 R 10/22/13
GBS\	GBSP78.doc	Bridge Deck Construction	E 10/22/13 R 04/18/14
GBS\	GBSP80.doc	Fabric Reinforced Elastomeric	E 08/29/14
GBS\	index.doc	GBSP Check Sheet	E 11/07/14

Bridge and Roadway Maintenance Special Provisions

MNT1\	ADJRCK.doc	Adjust Rocker and Sole Plate	E 01/23/95 R 01/01/07
MNT1\	APPR SLAB REM&REPL.doc	Approach Slab Removal & Replacement	E 12/28/01 R 01/01/07
MNT1\	APSLRP.DOC	Approach Slab Repair	E 03/13/97 R 09/25/09
MNT1\	Bmstrf.doc	Beam Straightening	E 12/06/94 R 01/01/07
MNT1\	Br-Dk-Conc-Sealer.doc	Bridge Deck Concrete Sealer	E 06/17/10 R 07/01/12
MNT1\	Brgpad.doc	Bearing Pad Adjustment	E 07/27/94 R 01/01/07
MNT1\	Bridge Drain Sys Repair.doc	Bridge Drainage System Repairs	E 11/16/10 R 09/15/11
MNT1\	BRR.doc	Bridge Rail Removal	E 04/15/99 R 01/01/07
MNT1\	Cleaning Drainage System.doc	Cleaning Drainage System	E 06/21/04 R 08/30/10
MNT1\	Conccsar.doc	Concrete Bridge Deck Scarification [W/New HMA Overlay W/O WMS]	E 11/22/02 R 01/01/07
MNT1\	CWS.DOC	Concrete Wearing Surface [Use on Slab Bridges - for PPC Dk Bms use GBSP34]	E 06/23/94 R 01/01/07
MNT1\	Debris Removal.doc	Debris Removal	E 06/27/02
MNT1\	dowelrp.doc	Dowel Repair	E 07/27/94 R 01/01/07
MNT1\	EPXINJ.DOC	Epoxy Injection	E 12/06/94 R 01/01/07
MNT1\	Fldrex.doc	Floor Drain Extension	E 02/01/96 R 04/07/98
MNT1\	Grade Shape Foreslope.doc	Grading And Shaping Foreslopes	E 04/01/08
MNT1\	Groutrp.doc	Grout Repair	E 07/27/94 R 01/01/07
MNT1\	HMArm1.doc	Hot-Mix Asphalt Surface Removal Complete	E 12/08/93 R 01/01/07
MNT1\	HMArm2.DOC	Hot-Mix Asphalt Surface Removal [Use w/ PPC Deck Beams]	E 07/27/94 R 01/01/07
MNT1\	HMArm3.doc	Hot-Mix Asphalt Surface Removal (Deck)	E 04/29/96 R 01/01/07
MNT1\	HMArm4.doc	Hot-Mix Asphalt Surface Removal [Use w/Deck Slab Repairs]	E 07/27/94 R 01/01/07
MNT1\	Jckcrb.doc	Jacking and Cribbing	E 10/05/99 R 01/01/07
MNT1\	JKRPBR.DOC	Jack and Reposition Bearings	E 12/15/93 R 07/15/96
MNT1\	Keep Toll Open To Traffic.doc	Keeping the Tollway Open to Traffic	E 03/22/96 R 10/12/10
MNT1\	Keywyrp.doc	Keyway Repair	E 07/27/94 R 08/12/11
MNT1\	NIGHT WZ LIGHT(D1).doc	Nighttime Work Zone Lighting (D1)	E 11/01/08 R 06/15/10
MNT1\	Paint Warranty7.doc	Warranty for Cleaning and Painting Steel Structures	E 03/03/00 R 11/24/04
MNT1\	PINLNK.DOC	Pin and Link Replacement	E 11/20/95 R 06/20/96
MNT1\	PINRR.DOC	Pin Replacement	E 06/11/96 R 06/20/96

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MNT1\	plexdd.doc	Plug Existing Deck Drains	E 11/06/96 R 01/01/07
MNT1\	PPROSH.DOC	Permanent Protective Shield System	E 10/03/96 R 06/27/08
MNT1\	PrGrAng.doc	Pressure Grouting Angles	E 06/01/93 R 01/01/07
MNT1\	reanocr.doc	Re-Anchor Existing Expansion Joint Angles	E 02/20/98
MNT1\	REBAR.DOC	Cleaning and Painting Exposed Rebar	E 03/20/97 R 01/01/07
MNT1\	RECIbm.doc	Removal of Existing Concrete I-Beam	E 07/09/98 R 05/05/99
MNT1\	REXPPCDB.doc	Removal of Existing Precast Prestressed Concrete Deck Beams	E 10/28/98 R 01/01/07
MNT1\	RREXRL.DOC	Removing and Re-Erecting Existing Railing	E 10/31/96 R 01/01/07
MNT1\	Scarify.doc	Concrete Bridge Deck Scarification	E 05/15/95 R 01/01/07
MNT1\	SteelRem.doc	Structural Steel Removal	E 10/03/97 R 01/01/07
MNT1\	steelrep.doc	Structural Steel Repair	E 12/15/00 R 01/01/07
MNT1\	STRBM.DOC	Straighten Bent Members	E 01/23/97 R 06/19/06
MNT1\	StructRepConcr(SP).doc	Structural Repair Of Concrete (Special)	E 04/02/07
MNT1\	Tmpsh1.doc	Temporary Shoring & Cribbing [when req'd for damaged beam replacement; requires SE]	E 06/16/92 R 03/11/03
MNT1\	Tmpsh1a.doc	Temporary Shoring & Cribbing [when "May be req'd" for or Day Labor beam replacement; No SE req'd]	E 06/16/92 R 04/22/03
MNT1\	Tmpsh2.doc	Temporary Shoring and Cribbing [for use w/longitudinal joint. closure on slab bridges]	E 07/27/94 R 03/11/03
MNT1\	TMPSH3.DOC	Temporary Shoring and Cribbing [Use during Pile Repair]	E 07/16/92 R 03/11/03
MNT1\	TMPSH4.DOC	Temporary Shoring and Cribbing [Use to support Beams over substructure repair]	E 7/16/92 R 10/17/11
MNT1\	TMPSH5.DOC	Temporary Shoring and Cribbing [Support Slab Bridge during Joint reconstruction]	E 07/16/92 R 03/11/03
MNT1\	TMPSH6.DOC	Temporary Shoring and Cribbing [support effected beam during beam end repairs]	E 10/22/04 R 11/09/04
MNT1\	TMPSLB.DOC	Temporary Slab Support System [use with beam replacement]	E 07/27/94 R 03/11/03
MNT1\	TMPSP1.DOC	Temporary Support System [Use for Pin & Link Replacement]	E 11/20/95 R 04/04/97
MNT1\	TMPSP2.DOC	Temporary Support System [Use if Pins over RR]	E 11/20/95 R 03/11/03
MNT1\	Work Zone Traff Ctrl(D1-M).doc	Work Zone Traffic Control (D-1 Maintenance)	E 05/30/96 R 06/15/10
MNT2\	COARSE SAND PLACEMENT.doc	Coarse Sand Placement	E 02/07/07
MNT2\	GENERAL REQUIREMENTS FOR WEED CONTROL SPRAYING.doc	General Requirements For Weed Control Spraying	E 02/07/07
MNT2\	MULCH PLACEMENT FOR WOODY PLANTS.doc	Mulch Placement For Woody Plants	E 02/07/07
MNT2\	Pruning-safety.doc	Pruning For Safety And Equipment Clearance	E 10/31/06
MNT2\	SELECTIVE CLEARING.doc	Selective Clearing	E 02/08/07
MNT2\	WEED CONTROL PRE-EMERGENT GRANULAR HERBICIDE.doc	Weed Control, Pre-Emergent Granular Herbicide	E 07/29/02 R 02/07/07
MNT2\	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL.doc	Weed Control, Non-Selective And Non-Residual	E 02/07/07
MNT2\	WEED CONTROL, TEASEL (POUND).doc	Weed Control, Teasel (Pound)	E 02/07/07
Bureau of Traffic Special Provisions			
TRF\	7030001T.DOC	Type III Temporary Tape For Wet Conditions	E 02/01/11
TRF\	8500002T.DOC	Full-Actuated Controller And Cabinet (Special)	E 1/1/02 Rev 1/1/07
TRF\	8500003T.DOC	Master Controller (Special)	E 01/01/97 R 01/01/07

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		County:	<u>Cook</u>

TRF\	8500004T.DOC	Full-Actuated Controller (Special)	E 9/26/95 Rev 1/1/07
TRF\	8500005T.DOC	Modify Existing Type "D" Foundation	E 01/01/97 R 01/01/07
TRF\	8500006T.DOC	Rebuild Existing Handhole	E 01/01/97 R 01/01/07
TRF\	8500007T.DOC	Rebuild Existing Handhole To Heavy-Duty Handhole	E 01/01/97 R 01/01/07
TRF\	8500008T.DOC	Relocate Existing Emergency Vehicle Priority System, Detector Unit	E 10/01/97 R 01/01/07
TRF\	8500009T.DOC	Confirmation Beacon	E 01/01/02 R 01/01/07
TRF\	8500010T.DOC	Relocate Existing Emergency Vehicle Priority System, Phasing Unit	E 01/01/02 R 01/01/07
TRF\	8500011T.DOC	Detector Loop Replacement/ Installation On Resurfacing/Patching	E 01/01/85 R 01/01/07
TRF\	8500012T.DOC	Flashing Beacon Installation	E 01/01/07
TRF\	8500014T.DOC	Rr Full-Actuated Controller And Cabinet (Special)	E 1/1/07
TRF\	8500015T.DOC	Rr Full-Actuated Controller And Cabinet	E 1/1/07
TRF\	9010001X.DOC	Keeping The Expressway Open To Traffic	E 03/22/96 R 02/13/14
TRF\	9010002X.DOC	Failure To Open Traffic Lanes To Traffic	E 03/22/96 R 02/09/05
TRF\	9010003X.doc	Traffic Control And Protection (Expressways)	E 03/08/96 R 02/13/14
TRF\	9010004X.DOC	Traffic Control Surveillance (Expressways)	E 10/25/95 R 01/09/98
TRF\	9010005X.DOC	Traffic Control Surveillance (Special)	E 10/25/95 R 01/01/07
TRF\	9010006X.DOC	Temporary Information Signing	E 11/13/96 R 01/02/07
TRF\	9010009X.DOC	Traffic Control For Work Zone Areas	E 09/14/95 R 01/01/07
TRF\	D1 TS Specs 2012.doc	Traffic Signal Specifications (Dist. 1)	E 01/01/02 R 01/01/12
TRF\	Hot Spray Thermo.doc	45 Mil Hot Spray Thermoplastic Pavement Marking	E 02/28/94 R 12/18/12
TRF\	Keep Arterials Open to Traffic.doc	Keeping Arterial Roadways Open To Traffic	E 01/22/03 R 01/01/07
TRF\	Sign Shop Drawing Submittal.doc	Sign Shop Drawing Submittal	E 01/01/13

FOLLOWING ARE THE CURRENT BDE SPECIAL PROVISIONS ISSUED BY THE CENTRAL BUREAU OF DESIGN AND ENVIRONMENT. PRELIMINARY AND FINAL SPECIAL PROVISIONS THAT ARE DISTRIBUTED FOR DISTRICT OR OUTSIDE AGENCY REVIEW SHOULD INCLUDE A COPY OF EACH APPLICABLE BDE SPECIAL PROVISION. FINAL SUBMITTAL TO THE CENTRAL OFFICE SHOULD ONLY INCLUDE THE BDE SPECIAL PROVISION CHECK SHEET WITH THE APPLICABLE SPECIAL PROVISIONS CHECKED.

ZD&E\	20338.doc	TRAINING SPECIAL PROVISIONS	E 10/15/75
ZD&E\	34261.doc	RAILROAD PROTECTIVE LIABILITY INSURANCE	E 12/01/86 R 01/01/06
ZD&E\	50261.doc	BUILDING REMOVAL - CASE I (NON-FRIABLE AND FRIABLE ASBESTOS ABATEMENT)	E 09/01/90 R 04/01/10
ZD&E\	50481.doc	BUILDING REMOVAL - CASE II (NON-FRIABLE ASBESTOS ABATEMENT)	E 09/01/90 R 04/01/10
ZD&E\	50491.doc	BUILDING REMOVAL - CASE III (FRIABLE ASBESTOS ABATEMENT)	E 09/01/90 R 04/01/10
ZD&E\	50531.doc	BUILDING REMOVAL - CASE IV (NO ASBESTOS)	E 09/01/90 R 04/01/10
ZD&E\	80029.doc	DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION	E 09/01/00 R 08/02/11
ZD&E\	80045.doc	MATERIAL TRANSFER DEVICE	E 06/15/99 R 08/01/14
ZD&E\	80071.doc	WORKING DAYS	E 01/01/02
ZD&E\	80099.doc	ACCESSIBLE PEDESTRIAN SIGNALS (APS)	E 04/01/03 R 01/01/14
ZD&E\	80127.doc	STEEL COST ADJUSTMENT	E 04/02/04 R 04/01/09
ZD&E\	80157.doc	RAILROAD PROTECTIVE LIABILITY INSURANCE (5 AND 10)	E 01/01/06
ZD&E\	80165.doc	MOISTURE CURED URETHANE PAINT SYSTEM	E 11/01/06 R 01/01/10
ZD&E\	80173.doc	BITUMINOUS MATERIALS COST ADJUSTMENTS	E 11/2/06 R 08/01/13
ZD&E\	80192.doc	AUTOMATED FLAGGER ASSISTANCE DEVICES	E 01/01/08
ZD&E\	80198.doc	COMPLETION DATE (VIA CALENDAR DAYS)	E 04/01/08
ZD&E\	80199.doc	COMPLETION DATE (VIA CALENDAR DAYS) PLUS WORKING DAYS	E 04/01/08
ZD&E\	80229.doc	FUEL COST ADJUSTMENT	E 04/01/09 R 07/01/09
ZD&E\	80240.doc	ABOVE GRADE INLET PROTECTION	E 07/01/09 R 01/01/12
ZD&E\	80241.doc	BRIDGE DEMOLITION DEBRIS	E 07/01/09
ZD&E\	80246.doc	HOT-MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS	E 01/01/10 R 04/01/2012
ZD&E\	80254.doc	PAVEMENT PATCHING	E 01/01/10
ZD&E\	80261.doc	CONSTRUCTION AIR QUALITY-DIESEL RETROFIT	E 06/01/10 R 11/01/14

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ZD&E\	80265.doc	FRICTION AGGREGATE	E 01/01/11 R 11/01/14
ZD&E\	80274.doc	AGGREGATE SUBGRADE IMPROVEMENT	E 04/01/12 R 01/01/13
ZD&E\	80277.doc	Concrete Mix Design - Department Provided	E 01/01/12 R 01/01/14
ZD&E\	80288.doc	WARM MIX ASPHALT	E 01/01/12 R 11/01/14
ZD&E\	80289.doc	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING	E 01/01/12
ZD&E\	80293.doc	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	E 04/01/12 R 04/01/14
ZD&E\	80294.doc	CONCRETE BOX CULVERTS WITH SKEWS ≤ 30 DEGREES REGARDLESS OF DESIGN FILL AND SKEWS > 30 DEGREES WITH DESIGN FILLS > 5 FEET	E 04/01/12 R 04/01/14
ZD&E\	80298.doc	PAVEMENT MARKING TAPE TYPE IV	E 04/01/12
ZD&E\	80300.doc	PREFORMED PLASTIC PAVEMENT MARKING TYPE D - INLAID	E 04/01/12
ZD&E\	80301.doc	TRACKING THE USE OF PESTICIDES	E 08/01/12
ZD&E\	80302.doc	WEEKLY DBE TRUCKING REPORTS	E 06/02/12
ZD&E\	80304.doc	GROOVING FOR RECESSED PAVEMENT MARKINGS	E 11/01/12 R 08/01/14
ZD&E\	80306.doc	RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES	E 11/01/12 R 04/01/14
ZD&E\	80310.doc	COATED GALVANIZED STEEL CONDUIT	E 01/01/13 R 01/01/15
ZD&E\	80311.doc	CONCRETE END SECTIONS FOR PIPE CULVERTS	E 01/01/13
ZD&E\	80315.doc	INSERTION LINING OF CULVERTS	E 01/01/13 R 11/01/13
ZD&E\	80317.doc	SURFACE TESTING OF HOT-MIX ASPHALT OVERLAYS	E 01/01/13
ZD&E\	80318.doc	TRAVERSABLE PIPE GRATE	E 01/01/13 R 04/01/14
ZD&E\	80322.doc	HOT-MIX ASPHALT - MIXTURE DESIGN COMPOSITION AND VOLUMETRIC REQUIREMENTS	E 11/01/13 R 11/01/14
ZD&E\	80323.doc	HOT-MIX ASPHALT - MIXTURE DESIGN VERIFICATION AND PRODUCTION	E 11/01/13 R 11/01/14
ZD&E\	80324.doc	LFRD PIPE CULVERT BURIAL TABLES	E 11/01/13 R 11/01/14
ZD&E\	80325.doc	LFRD PIPE CULVERT BURIAL TABLES	E 11/01/13 R 11/01/14
ZD&E\	80327.doc	REINFORCEMENT BARS	E 11/01/13
ZD&E\	80328.doc	PROGRESS PAYMENTS	E 11/02/13
ZD&E\	80329.doc	GLARE SCREEN	E 01/01/14
ZD&E\	80334.doc	CONCRETE GUTTER, CURB, MEDIAN, AND PAVED DITCH	E 04/01/14 R 08/01/14
ZD&E\	80335.doc	CONTRACT CLAIMS	E 04/01/14
ZD&E\	80336.doc	LONGITUDINAL JOINT AND CRACK PATCHING	E 04/01/14
ZD&E\	80337.doc	PAVED SHOULDER REMOVAL	E 04/01/14
ZD&E\	80338.doc	PORTLAND CEMENT CONCRETE PARTIAL DEPTH HOT-MIX ASPHALT PATCHING	E 04/01/14
ZD&E\	80340.doc	SPEED DISPLAY TRAILER	E 04/02/14
ZD&E\	80341.doc	COILABLE NONMETALLIC CONDUIT	E 08/01/14 R 01/01/15
ZD&E\	80342.doc	MECHANICAL SIDE TIE BAR INSERTER	E 08/01/14 R 01/01/15
ZD&E\	80343.doc	PRECAST CONCRETE HANDHOLE	E 04/01/14
ZD&E\	80344.doc	RIGID METAL CONDUIT	E 08/01/14
ZD&E\	80345.doc	UNDERPASS LUMINAIRE	E 08/01/14
ZD&E\	80346.doc	WATERWAY OBSTRUCTION WARNING LUMINAIRE	E 08/01/14
ZD&E\	80347.doc	HOT-MIX ASPHALT - PAY FOR PERFORMANCE USING PERCENT WITHIN LIMITS-JOBSITE SAMPLING	E 11/01/14
ZD&E\	80348.doc	HOT-MIX ASPHALT - PRIME COAT	E 11/01/14
ZD&E\	80349.doc	PAVEMENT MARKING BLACKOUT TAPE	E 11/01/14
ZD&E\	80350.doc	RETROREFLECTIVE SHEETING FOR HIGHWAY SIGNS	E 11/01/14
ZD&E\	80351.doc	LIGHT TOWER	E 01/01/15
ZD&E\	80352.doc	PAVEMENT STRIPING - SYMBOLS	E 01/01/15
ZD&E\	80353.doc	PORTLAND CEMENT CONCRETE INLAY OR OVERLAY	E 01/01/15
ZD&E\	80354.doc	SIDEWALK, CORNER, OR CROSSWALK CLOSURE	E 01/01/15
ZD&E\	80355.doc	TEMPORARY CONCRETE BARRIER	E 01/01/15
ZD&E\	80356.doc	TRAFFIC BARRIER TERMINALS TYPE 6 OR 6B	E 01/01/15
ZD&E\	80357.doc	URBAN HALF ROAD CLOSURE WITH MOUNTABLE MEDIAN	E 01/01/15

BY ORDER
BOARD OF COUNTY COMMISSIONERS
THE COUNTY OF COOK
SHANNON E. ANDREWS
CHIEF PROCUREMENT OFFICER
JOHN YONAN, P.E.
SUPERINTENDENT OF DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
DEFINITION OF TERMS

PLANS. The plans herein referred to are those prepared by the County Superintendent of Department of Transportation and Highways. The plans which cover the proposed improvement are designated by the section and route numbers inscribed herein and include all standard and special designs pertaining to the proposed improvement.

SPECIFICATIONS. The specifications herein referred to are the Standard Specifications for Road and Bridge Construction, Supplemental Specifications, the special provisions and all written agreements and documents of any description pertaining to the method or manner of performing the work and the quantity or quality of materials to be furnished under the contract. The Standard Specifications for Road and Bridge Construction are those prepared by the Department of Transportation of the State of Illinois, adopted January 1, 2012. The Supplemental Specifications are those prepared by the Department of Transportation of the State of Illinois.

INTENT OF PLANS AND SPECIFICATIONS. The intent of those plans and specifications is to prescribe a complete outline of the proposed improvement which the Contractor undertakes to construct in full compliance with the contract. In case of discrepancy, plans shall govern over Standard and Supplemental Specifications and Special Provisions shall govern over plans and specifications.

ABOUT REQUESTS FOR PLANS & PROPOSALS

The Specification can be downloaded at <http://legacy.purchasing/public/index.php> (follow online instructions to register, if you have not already). When the plans are not included in the bid document on the http site, you must also download the Plans (Drawings) at <ftp://highwayftp.cookcountyl.gov> (user name: highwaypublic; password: fpt3st!).

A compact disk containing the bid documents will be available at the Cook County Building, 118 North Clark Street, Chicago, IL 60602 at Room 1018. One compact disk per company at no charge.

INFORMATION for BIDDERS

- 1) If the prospective bidder is in doubt as to the meaning of any part of the plans, specifications of other proposed contract documents, they may submit a written clarification to the Chief Procurement Officer (CPO) for an interpretation thereof. The prospective bidder submitting the request will be responsible for the prompt delivery to the Chief Procurement Officer. Any interpretation of the proposal documents will be made by an addendum duly issued through the Cook County Purchasing website.
- 2) An estimate of quantities of work to be done and material to be furnished under the specifications will be found in the Schedule of Prices. It is the result of calculations and is given as a basis for a comparison of bids and award of a contract.
- 3) The bidder should include in the bid price in his bid for any taxes such as Occupational, Social Security, Unemployment Compensation, etc., which he might be required to pay in connection with the construction of the proposed improvement. The County of Cook will not reimburse the Contractor for the payment of any such taxes.
- 4) The Board of County Commissioners for the County of Cook reserves the right to reject any or all bids and to waive technicalities of form. Bids may be rejected if current work being performed for the County of Cook by the bidder has been unsatisfactory from the standpoint of workmanship or progress, or if the contractor has been awarded work by others subsequent to the issuance of the bid, which may, in the judgement of said Board of County Commissioners of Cook County endanger the prompt completion of the proposed improvement.
- 5) The bidder shall include in his bid a Bid Guarantee in accordance with provisions contained in the proposal form. The return of the bid guarantee will be in accordance with provisions contained in the bid form.
- 6) The bidder who submits the bid shall furnish a satisfactory Performance and Payment Bond in the amount of one hundred percent (100%) of the contract price within **fourteen (14) days** after receiving notice of acceptance. Such acceptance being contingent upon the fulfillment of this requirement by said bidder. Failure on the part of said bidder to so execute a Contract and Performance and Payment Bond shall be considered just cause for the forfeiture of the bid guaranty as payment of liquidated damages sustained by the County of Cook as the result of such, and the annulment of acceptance of the proposal.
- 7) If bidder is submitting a bid as a Joint Venture, bidder shall complete the County's Joint Venture Forms and shall submit such Joint Venture Forms **when the bid is submitted**. Bidder is reminded that compliance with the Assumed Business Name Act (805 ILCS 405/1 et seq.) is required of all Joint Ventures.

8) **The following completed documents are to be submitted with 1 Original and 1 Copy of the Bid:**

Joint Venture Forms	1 original
Bituminous Materials Cost Adjustments (when applicable)	1 original
Economic Disclosure Statement and Execution Documents:	
IDOT Certificate of Eligibility	1 copy
IDOT Affidavit of Availability	1 copy
DBE Utilization Plan	1 copy
(Note: If original cannot be provided a copy is acceptable.)	
DBE Participation Plan	1 copy
(Note: If original cannot be provided a copy is acceptable.)	
Letter of Intent from DBE to Perform as Subcontractor, Supplier and/or Consultant	1 copy
(Note: If original cannot be provided a copy is acceptable.)	
Current DBE Letter of Certification for each participant	1 copy
Petition for Reduction/Waiver of DBE Participation Goals	1 original
Contractor Certifications	1 original
Economic and Other Required Disclosures	1 original
Lobby, Local Business Preference, Real Estate Ownership	1 original
Affidavit of Child Support Obligations	1 original
Disclosure of Ownership Interest Statement	1 original
Familial Relationship Disclosure Provision	1 original
Certification Concerning Labor Standards And Prevailing Wage Requirements	1 original
Subcontractors Certification Concerning Labor Standards and Prevailing Wage Requirements	1 copy
Execution Pages:	
Sole Proprietor Signature Page	3 originals
Partnership and/or Joint Venture Signature Page	3 originals
Corporation Signature Page	3 originals
Bid Deposit Form	1 original
Proposal Bid Bond	1 original
Surety Statement of Qualifications	1 original

The following documents are to be submitted subsequent to notice of acceptance within fourteen (14) calendar days:

Performance and Payment Bond	1 original
Certificates of Insurance evidencing:	
Worker's Compensation and Employer's Liability	1 original
Commercial General Liability	1 original
Commercial Automobile Liability	1 original
Contractor's Pollution Liability	1 original (If required)
Excess Liability	1 original
Railroad Protective Liability (when applicable)	1 original
Trust Agreement	1 original
Equal Employment Opportunity Compliance Certificate	1 original (if required)

Please forward documents due within fourteen (14) days of notice of acceptance to:

**Cook County Department of Transportation and Highways
Contract Documents
69 West Washington Street
Suite 2400
Chicago, IL 60602**

**SPECIAL PROVISION
FOR
BIDDING REQUIREMENTS AND CONDITIONS FOR CONTRACT PROPOSALS**

Qualification of Bidders

The Awarding Authority for contract construction work is the County Board of a County. Each prospective bidder, in evidence of competence, shall furnish the Awarding Authority a certified copy of a "Certificate of Eligibility" issued by the Illinois Department of Transportation, and Contractor's Statement of Experience and Financial Condition" with their bid. Each prospective bidder shall furnish a sworn statement as to equipment owned and controlled, previous experience and construction work.

If the bidder to whom the award is made is a corporation organized under the laws of the State other than Illinois, the bidder shall furnish the Awarding Authority a copy of the corporation's Certificate of Authority to do business in the State of Illinois with the bid.

The bidder must provide the Awarding Authority a sworn Affidavit of Availability showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work in the bid. The bidder should file two (2) copies of same with IDOT's District office.

Interpretation of Quantities in the Bid Schedule

The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased, or omitted as hereinafter provided.

Examination of Plans, Specifications, Special Provisions, and Site of Work

The bidder shall, before submitting a bid, carefully examine the provisions of the contract. The bidder shall inspect in detail the site of the proposed work, investigate and become familiar with all the local conditions affecting the contract and fully acquaint themselves with the detailed requirements of construction. Submission of a bid shall be a conclusive assurance and warranty the bidder has made these examinations and the bidder understands all requirements for the performance of the work. If the submitted bid is accepted, the bidder shall be responsible for all errors in the bid resulting from the bidder's failure or neglect to comply with these instructions. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses, or change in anticipated profits resulting from such failure or neglect of the bidder to make these examinations.

The bidder shall take no advantage of any error or omission in the bid documents and advertised contract. Any prospective bidder who desires an explanation or interpretation of the plans, specification, or any of the contract documents shall request such in writing from the Awarding Authority in sufficient time to allow a written reply by the Awarding Authority that can reach all prospective bidders before the submission of their bids. Any reply given a prospective bidder concerning any of the contract documents, plans, and specifications will be furnished to all prospective bidders in the form determined by the Awarding Authority including, but not limited to, an addendum, if the information is deemed by the Awarding Authority to be necessary in submitting bids or if the Awarding Authority concludes the information would aid competition. Oral explanations, interpretations, or instructions given before the submission of bids unless at a prebid conference will not be binding on the Awarding Authority.

Changes in Improvement

The undersigned agrees that in case the Superintendent of Cook County Department of Transportation and Highways decides either to extend or decrease the area of the proposed improvement or to do both or otherwise alter it by extras or deductions including the elimination of any one or more of the quantities listed in the Schedule of Prices the undersigned will make such change in the contract price by adding or subtracting there from as the case may be by applying the respective unit prices to the quantities of the several items of work that may be involved by reason of such change.

Preparation of the Bid

Bidders shall submit their bids on the form furnished by the Awarding Authority. The bid shall be executed properly, and bids shall be made for all items indicated in the bid form, except when alternate bids are asked, a bid on more than one alternate for each item is not required, unless otherwise provided. The bidder shall indicate in figures, a unit price for each of the separate items called for in the bid form; the bidder shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the bid form shall be the summation of said products. All writing shall be with ink or typewriter, except the signature of the bidder which shall be written in ink.

Any erasures or alterations in the unit prices and/or in the products of the respective quantities and unit prices in the bid, must be properly authenticated by the bidder by initialing in ink such erasures or alterations to avoid cause for rejection of the bid in accordance with Title 44 Illinois Administrative Code Chapter IX Section 660.180.

If the bid is made by an individual, that individual's name and business address shall be shown. If made by a firm or partnership, the name and business address of each member of the firm or partnership shall be shown. If made by a corporation, the bid shall show the names, titles, and business addresses of the president, corporate secretary and treasurer. The bid shall be signed by president or someone with authority to execute contracts and attest by the corporate secretary or someone with authority to execute or attest to the execution of contracts.

Rejection of Bids

The Awarding Authority reserves the right to reject any bids for any of the conditions listed below:

- a) More than one bid for same work from an individual, firm partnership, or corporation under the same name or different names.
- b) Evidence of collusion among bidders.
- c) Unbalanced bids in which the bid prices for some items are, in the judgment of the Awarding Authority, out of proportion to the bid prices for other items.
- d) If the bid does not contain a unit price for each pay item listed except in the case of authorized alternate pay items or lump sum pay items.
- e) If the bid form is other than that furnished by the Awarding Authority; or if the form is altered or any part thereof is detached.
- f) If there are omissions, erasures, alterations unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the bid incomplete, indefinite or ambiguous as to its meaning.
- g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
- h) If the proposal is not accompanied by the proper bid guaranty.
- i) If the bid is prepared with other than ink or typewriter, or otherwise fails to meet the requirement of the above "Preparation of Proposal" section.
- j) Lack of Competency and adequate machinery, plant, and other equipment, as revealed by the financial statement and experience questionnaires required in the prequalification procedures.
- k) Uncompleted work which, in the judgment of the Awarding Authority, might hinder or prevent the prompt completion of additional work awarded.
- l) False information provided on a bidder's "Affidavit of Availability".

- m) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of bid forms.
- n) Failure to comply with any prequalification regulations of the Department.
- o) Default under previous contracts.
- p) Unsatisfactory performance record as shown by past work for the Awarding Authority, judged from the standpoint of workmanship and progress.
- q) When the contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or requires approval of, the Department.
- r) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposal work.
- s) When any agent, servant, or employee of the perspective bidder has participated in the preparation of plans or specifications for the proposed work.

Bid Guaranty

Each bid shall be accompanied by a bid bond on the Department form contained in the bid document, executed by a corporate surety company satisfactory to the Awarding Authority, by a bank cashier's check or a properly certified check for not less than five percent (5%) of the amount bid, or for the amount specified in the following schedule:

	<u>Amount Bid</u>	<u>Proposal Guaranty</u>
Up to	\$5,000	\$150
\$5,000	\$10,000	\$300
\$10,000	150,000	\$1,000
\$50,000	\$100,00	\$3,000
\$100,000	\$150,000	\$5,000
\$150,000	\$250,000	\$7,500
\$250,000	\$500,000	\$12,500
\$500,000	\$1,000,000	\$25,000
\$1,000,000	\$1,500,000	\$50,000
\$1,500,000	\$2,000,000	\$75,000
\$2,000,000	\$3,000,000	\$100,000
\$3,000,000	\$5,000,000	\$150,000
\$5,000,000	\$7,500,000	\$250,000
\$7,500,000	\$10,000,000	\$400,000
\$10,000,000	\$15,000,000	\$500,000
\$15,000,000	\$20,000,000	\$600,000
\$20,000,000	\$25,000,000	\$700,000
\$25,000,000	\$30,000,000	\$800,000
\$30,000,000	\$35,000,000	\$900,000
Over	\$35,000,000	\$1,000,000

In the event that one proposal guaranty check is intended to cover two or more bids, the amount must equal to the sum of the bid guaranties, which would be required for each individual proposal.

Bank cashier's checks or properly certified checks accompanying bids shall be made payable to the County Treasurer, when a County is the Awarding Authority; or the City, Village, or Town Treasurer, when a city, village or town is the Awarding Authority.

The bid guaranty checks of all except the two (2) lowest responsible bidders will be returned promptly after the bids have been checked, tabulated, and the relation of the bids established. Bid guaranty checks of the two lowest responsible bidders will be returned as soon as the contract and contract bond of the successful bidder have been properly executed and approved. Bid bonds will not be returned.

After a period of three (3) working days has elapsed after the date of opening proposals, the Awarding Authority may permit the two lowest bidders to substitute for the banks cashier's checks or certified checks submitted with their bids as proposal guaranties, bid bonds on the Department forms executed by corporate surety companies satisfactory to the Awarding Authority.

Delivery of Bids

If a special envelope is supplied by the Awarding Authority, each bid should be submitted in that envelope furnished by the Awarding Authority and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All bids shall be filed prior to the time and at the place specified in the Notice to Bidders. Bids received after the time specified will be returned to the bidder unopened.

Withdrawal of Bids

Bidder may withdraw their bid prior to bid opening.

Public Opening of Bids

Bids will be opened and read publicly at the time and place specified in the Notice to Bidders. Bidders, their authorized agents, and other interested parties are invited to be present.

Consideration of Bids

After the bids are opened and read, they will be compared on the basis of the summation of the products of the quantities shown in the bid schedule by the unit bid prices. In awarding contracts, the Awarding Authority will, in addition to considering the amounts stated in the bids, take into consideration the responsibility of the various bidders as stated under "Rejection of Bids and documents submitted in the bid and from other investigations which it may elect to make.

The right is reserved to reject any or all bids, to waive technicalities, or to advertise from new bids, if in the judgment of the Awarding Authority, the best interests of the Awarding Authority will be promoted thereby.

Awarding of Contract

The award of contract will be made within 90 calendar days after the opening of bids to the lowest responsible and responsive qualified bidder whose bids complies with all the requirements prescribed. The successful bidder will be notified that their bid has been accepted, and subject to the following conditions, the bidder will be the Contractor. In addition, **the contractor shall provide all required insurance and bonding as specified within fourteen (14) calendar days from notice.**

An approved contract executed by the Awarding Authority is required before the Awarding Authority is bound. An award may be cancelled any time by the Awarding Authority prior to execution in order to protect the public interest and integrity of the bidding process or for any other reason, if the judgment of the Awarding Authority and/or the best interests of the Awarding Authority will be promoted thereby.

If a contract is not awarded within 90 days after the bid opening, bidders may file a written request with the Awarding Authority for the withdrawal of their bid, or agree to maintain their bid price.

Requirement of Contract Bond

The Contractor shall furnish the Awarding Authority a performance and payment bond with good and sufficient sureties in the full amount of the contract within **fourteen (14) calendar days** as part of the requirement. The surety shall be acceptable to the Awarding Authority, shall waive notice of any changes and extensions of time, and shall submit its bond on the form furnished by the Awarding Authority.

Failure to Execute Contract

If the contract is not executed by the Awarding Authority within 90 days from the bid opening, the bidder shall have the right to withdraw their bid without penalty.

Failure of the successful bidder to provide all required insurance and bonding within **fourteen (14) days after the award notification** shall be just cause for the cancellation of the award and the forfeiture of the bid guaranty which shall become the property of the Awarding Authority, not as penalty, but in liquidation of damages sustained. Award may then be made to the next lowest responsible bidder, or the work may be advertised again and constructed under contract, or otherwise, as the Awarding Authority may decide.

**SPECIAL PROVISION
FOR
PRE-BID MEETING**

Prospective bidders are advised that Pre-Bid Meeting will be held:

Date: Tuesday, April 28, 2015

Time: 11 a.m.

**Place: Cook County Department of Transportation and Highways
69 W. Washington Street
Suite 2260
Chicago, IL 60602**

Wage and Hour Division (WHD)

The Davis-Bacon Act, as Amended

WH Publication 1246

(Revised April 2009) ([PDF](#))

PUBLIC LAW 107-217-AUG. 21, 2002 [as amended ¹]

AN ACT

To revise, codify, and enact without substantive change certain general and permanent laws, related to public buildings, property, and works, as title 40, United States Code, "Public Buildings, Property, and Works".

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. TITLE 40, UNITED STATES CODE.

Certain general and permanent laws of the United States, related to public buildings, property, and works, are revised, codified, and enacted as title 40, United States Code, "Public Buildings, Property, and Works", as follows:

TITLE 40-PUBLIC BUILDINGS, PROPERTY, AND WORKS

* * * * *

SUBTITLE II-PUBLIC BUILDINGS AND WORKS

PART A-GENERAL

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CHAPTER 31 - GENERAL

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SUBCHAPTER IV - WAGE RATE REQUIREMENTS

Sec. 3141. Definitions

In this subchapter, the following definitions apply:

- (1) Federal government.- The term "Federal Government" has the same meaning that the term "United States" had in the Act of March 3, 1931 (ch. 411, 46 Stat. 1494) (known as the Davis-Bacon Act).²
- (2) Wages, scale of wages, wage rates, minimum wages, and prevailing wages.- The terms "wages", "scale of wages", "wage rates", "minimum wages", and "prevailing wages" include-
 - (A) the basic hourly rate of pay; and
 - (B) for medical or hospital care, pensions on retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the foregoing, for unemployment benefits, life insurance, disability and sickness insurance, or accident insurance, for vacation and holiday pay, for defraying the costs of apprenticeship or other similar programs, or for other bona fide fringe benefits, but only where the contractor or subcontractor is not required by other federal, state, or local law to provide any of those benefits, the amount of-
 - (i) the rate of contribution irrevocably made by a contractor or subcontractor to a trustee or to a third person under a fund, plan, or program; and
 - (ii) the rate of costs to the contractor or subcontractor that may be reasonably anticipated in providing benefits to laborers and mechanics pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the laborers and mechanics affected.

Sec. 3142. Rate of wages for laborers and mechanics

- (a) Application.- The advertised specifications for every contract in excess of \$2,000, to which the Federal Government or the District of Columbia is a party, for construction, alteration, or repair, including painting and decorating, of public buildings and public works of the Government or the District of Columbia that are located in a State or the District of Columbia

and which requires or involves the employment of mechanics or laborers shall contain a provision stating the minimum wages to be paid various classes of laborers and mechanics.

- (b) Based on Prevailing Wage.- The minimum wages shall be based on the wages the Secretary of Labor determines to be prevailing for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in the civil subdivision of the State in which the work is to be performed, or in the District of Columbia if the work is to be performed there.
- (c) Stipulations Required in Contract.- Every contract based upon the specifications referred to in subsection (a) must contain stipulations that-
 - (1) the contractor or subcontractor shall pay all mechanics and laborers employed directly on the site of the work, unconditionally and at least once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment, computed at wage rates not less than those stated in the advertised specifications, regardless of any contractual relationship which may be alleged to exist between the contractor or subcontractor and the laborers and mechanics;
 - (2) the contractor will post the scale of wages to be paid in a prominent and easily accessible place at the site of the work; and
 - (3) there may be withheld from the contractor so much of accrued payments as the contracting officer considers necessary to pay to laborers and mechanics employed by the contractor or any subcontractor on the work the difference between the rates of wages required by the contract to be paid laborers and mechanics on the work and the rates of wages received by the laborers and mechanics and not refunded to the contractor or subcontractors or their agents.
- (d) Discharge of Obligation.- The obligation of a contractor or subcontractor to make payment in accordance with the prevailing wage determinations of the Secretary of Labor, under this subchapter and other laws incorporating this subchapter by reference, may be discharged by making payments in cash, by making contributions described in section 3141(2)(B)(i) of this title, by assuming an enforceable commitment to bear the costs of a plan or program referred to in section 3141(2)(B)(ii) of this title, or by any combination of payment, contribution, and assumption, where the aggregate of the payments, contributions, and costs is not less than the basic hourly rate of pay plus the amount referred to in section 3141(2)(B) of this title.
- (e) Overtime Pay.- In determining the overtime pay to which a laborer or mechanic is entitled under any federal law, the regular or basic hourly rate of pay (or other alternative rate on which premium rate of overtime compensation is computed) of the laborer or mechanic is deemed to be the rate computed under section 3141(2)(A) of this title, except that where the amount of payments, contributions, or costs incurred with respect to the laborer or mechanic exceeds the applicable prevailing wage, the regular or basic hourly rate of pay (or other alternative rate) is the amount of payments, contributions, or costs actually incurred with respect to the laborer or mechanic minus the greater of the amount of contributions or costs of the types described in section 3141(2)(B) of this title actually incurred with respect to the laborer or mechanic or the amount determined under section 3141(2)(B) of this title but not actually paid.

Sec. 3143. Termination of work on failure to pay agreed wages

Every contract within the scope of this subchapter shall contain a provision that if the contracting officer finds that any laborer or mechanic employed by the contractor or any subcontractor directly on the site of the work covered by the contract has been or is being paid a rate of wages less than the rate of wages required by the contract to be paid, the Federal Government by written notice to the contractor may terminate the contractor's right to proceed with the work or the part of the work as to which there has been a failure to pay the required wages. The Government may have the work completed, by contract or otherwise, and the

contractor and the contractor's sureties shall be liable to the Government for any excess costs the Government incurs.

Sec. 3144. Authority of Comptroller General to pay wages and list contractors violating contracts

- (a) Payment of Wages.-
 - (1) In general.- The Comptroller General shall pay directly to laborers and mechanics from any accrued payments withheld under the terms of a contract any wages found to be due laborers and mechanics under this subchapter.
 - (2) Right of action.- If the accrued payments withheld under the terms of the contract are insufficient to reimburse all the laborers and mechanics who have not been paid the wages required under this subchapter, the laborers and mechanics have the same right to bring a civil action and intervene against the contractor and the contractor's sureties as is conferred by law on persons furnishing labor or materials. In those proceedings it is not a defense that the laborers and mechanics accepted or agreed to accept less than the required rate of wages or voluntarily made refunds.
- (b) List of Contractors Violating Contracts.-
 - (1) In general.- The Comptroller General shall distribute to all departments of the Federal Government a list of the names of persons whom the Comptroller General has found to have disregarded their obligations to employees and subcontractors.
 - (2) Restriction on awarding contracts.- No contract shall be awarded to persons appearing on the list or to any firm, corporation, partnership, or association in which the persons have an interest until three years have elapsed from the date of publication of the list.

* * * * *

Sec. 3146. Effect on other federal laws

This subchapter does not supersede or impair any authority otherwise granted by federal law to provide for the establishment of specific wage rates.

Sec. 3147. Suspension of this subchapter during a national emergency

The President may suspend the provisions of this subchapter during a national emergency.

Sec. 3148. Application of this subchapter to certain contracts

This subchapter applies to a contract authorized by law that is made without regard to section 3709 of the Revised Statutes (41 U.S.C. 5), or on a cost-plus-a-fixed-fee basis or otherwise without advertising for proposals, if this subchapter otherwise would apply to the contract.

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1. Pub. L. 109-284 Sec. 6(11), (12), and (13) made three minor technical corrections in Secs 3141(1), and 3142(d) and (e). (Sept. 27, 2006, 120 Stat.1213.)
 2. The Davis-Bacon Act, referred to in par. (1), is act of Mar. 3, 1931, ch. 411, 46 Stat. 1494, as amended, which was classified generally to sections 276a to 276a-5 of former Title 40, Public Buildings, Property, and Works, and was repealed and reenacted as sections 3141-3144, 3146, and 3147 of this title by Pub. L. 107-217, Secs. 1, 6(b), Aug. 21, 2002, 116 Stat. 1062, 1304.

General Decision Number: IL150009 04/03/2015 IL9

Superseded General Decision Number: IL20140009

State: Illinois

Construction Types: Building, Heavy, Highway and Residential

County: Cook County in Illinois.

BUILDING, RESIDENTIAL, HEAVY, AND HIGHWAY PROJECTS (does not include landscape projects).

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/02/2015
1	01/23/2015
2	01/30/2015
3	02/06/2015
4	02/20/2015
5	04/03/2015

ASBE0017-001 06/01/2014

Rates Fringes

ASBESTOS WORKER/INSULATOR

Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of

mechanical systems.....\$ 48.45 24.35

Fire Stop Technician.....\$ 38.76 23.15

HAZARDOUS MATERIAL HANDLER

includes preparation, wetting, stripping removal scrapping, vacuuming, bagging and disposal of all insulation materials,

whether they contain
 asbestos or not, from
 mechanical systems.....\$ 36.34 23.15

BOIL0001-001 01/01/2014

	Rates	Fringes
BOILERMAKER.....	\$ 42.13	25.45

BRIL0021-001 06/01/2014

	Rates	Fringes
BRICKLAYER.....	\$ 42.58	23.80

BRIL0021-004 06/01/2014

	Rates	Fringes
Marble Mason.....	\$ 41.78	23.37

BRIL0021-006 06/01/2014

	Rates	Fringes
TERRAZZO WORKER/SETTER.....	\$ 40.88	22.43
TILE FINISHER.....	\$ 33.60	15.22
TILE SETTER.....	\$ 40.49	16.93

BRIL0021-009 06/01/2014

	Rates	Fringes
MARBLE FINISHER.....	\$ 31.40	23.00

BRIL0021-012 06/01/2014

	Rates	Fringes
Pointer, cleaner and caulker.....	\$ 41.62	22.46

CARP0555-001 06/01/2014

	Rates	Fringes
CARPENTER Carpenter, Lather, Millwright, Piledriver, and Soft Floor Layer.....	\$ 43.35	27.67

CARP0555-002 10/01/2014

	Rates	Fringes
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CARPENTER (Excluding structures with elevators and structures over 3 1/2 stories)...\$ 34.11 27.67

ELEC0009-003 06/02/2014

Rates Fringes

Line Construction

Groundman.....\$ 35.96 21.79
 Lineman and Equipment
 Operator.....\$ 46.10 27.94

* ELEC0134-001 06/02/2014

Rates Fringes

ELECTRICIAN.....\$ 44.00 28.85

ELEC0134-002 04/01/1998

Rates Fringes

ELECTRICIAN

CLASS "B".....\$ 20.71 2.975+a+b

CLASS B SCOPE OF WORK:

Install magnetic or electronic replacement ballasts either singly or in groups including necessary wiring within fixture; Install replacement lamp holders and/or sockets including necessary wiring within fixture including relocating sockets within fixture; Install replacement lighting circuit breakers where necessary; Install replacement lighting switches where necessary; Repair lighting fixtures other than ballast or socket replacements; Rewire chandeliers or incandescent fixtures only within fixtures themselves.

FOOTNOTES:

a-Paid Vacation- Employees who have been employed for one year but less than three years receive 1 week of paid vacation; employees who have been employed three years but less than ten years receive 2 weeks of paid vacation; Employees who have been employed ten years but less than twenty years receive 3 weeks of paid vacation; and employees who have worked twenty or more years receive 4 weeks of paid vacation.

b-Funeral Leave-In the instance of the death of a mother, other-in-law-; father, father-in-law, sister, brother, husband, wife, or a child of an employee shall receive up to three days of paid funeral leave.

ELEC0134-003 06/02/2014

Rates Fringes

ELECTRICIAN

ELECTRICAL TECHNICIAN.....\$ 39.00 21.10

The work shall consist of the installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial, education, entertainment and residential purposes, including but not limited to communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit.

* ELEV0002-003 01/01/2015

Rates Fringes

ELEVATOR MECHANIC.....\$ 50.80 28.39+a+b

FOOTNOTES:

a) Eight paid holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day after Thanksgiving; Veterans' Day and Christmas Day.

b) Employer contributes 8% of regular basic hourly rate as vacation pay credit for employees with more than 5 years of service; and 6% for less than 5 years of service.

* ENGI0150-006 06/01/2014

Building and Residential Construction

Rates Fringes

OPERATOR: Power Equipment

GROUP 1.....\$ 47.10 32.05
GROUP 2.....\$ 45.80 32.05
GROUP 3.....\$ 43.25 32.05
GROUP 4.....\$ 41.50 32.05

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Mechanic; Asphalt Plant*; Asphalt Spreader; Autograde*; Backhoes with Caisson attachment*; Batch Plant*; Benoto (Requires two Engineers); Boiler and Throttle Valve; Caisson Rigs*; Central Redi-Mix Plant*; Combination Backhoe Front Endloader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted)*; Concrete Conveyor; Concrete Conveyor, Truck Mounted; Concrete Paver over 27E cu. ft.*; Concrete Paver 27E cu ft and Under*; Concrete Placer*; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes*; Cranes, Hammerhead*; Cranes, (GCI and similar type Requires two operators only); Creter Crane; Crusher, Stone, etc; Derricks; Derricks, Traveling*; Formless Curb and Gutter Machine*; Grader, Elevating; Grouting Machines; Highlift Shovels or Front Endloader 2 1/4 yd. and over; Hoists, Elevators, Outside Type Rack and pinion and similar Machines; Hoists, One, Two, and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes*; Hydraulic Boom Trucks; Hydraulic Vac (and similar equipment); Locomotives; Motor Patrol*; Pile Drivers and Skid Rig*; Post Hole Digger; Pre- Stress Machine; Pump Cretes Dual Ram (Requiring frequent Lubrication and Water); Pump Cretes; Squeeze Cretes-Screw Type Pumps Gypsum Bulker and Pump; Raised and Blind Hole Drill*; Roto Mill Grinder (36" and Over)*; Roto Mill Grinder (Less Than 36")*; Scoops-Tractor Drawn; Slip-Form Paver*; Straddle Buggies; Tournapull; Tractor with Boom, and Side Boom; and Trenching Machines*.

GROUP 2: Bobcat (over 3/4 cu yd); Boilers; Broom, Power Propelled; Bulldozers; Concrete Mixer (Two Bag and over); Conveyor, Portable; Forklift Trucks; Greaser Engineer; Highlift Shovels or Front End loaders under 2 1/4 cu yd; Automatic Hoists, Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Scream; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted)*; Rollers; Steam Generators; Tractors; Tractor Drawn Vibratory Roller (Receives an additional \$.50 per hour); Winch Trucks with "A" Frame.

GROUP 3: Air Compressor-Small 250 and Under (1 to 5 not to exceed a total of 300 ft); Air Compressor-Large over 250; Combination-Small Equipment Operator; Generator- Small 50 kw and under; Generator-Large over 50 kw; Heaters, Mechanical; Hoists, Inside Elevators (Remodeling or Renovatin work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Low Boys; Pumps Over 3" (1 To 3 not to exceed a total of 300 ft); Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches; Bobcat (up to and including 3/4 cu yd)

GROUP 4 - Bobcats and/or other Skid Steer Loaders; Brick Forklifts; Oilers

*-Requires Oiler

* ENGI0150-025 06/01/2014

Heavy and Highway Construction

	Rates	Fringes
OPERATOR: Power Equipment		
GROUP 1.....	\$ 45.30	32.05
GROUP 2.....	\$ 44.75	32.05
GROUP 3.....	\$ 42.70	32.05
GROUP 4.....	\$ 41.30	32.05
GROUP 5.....	\$ 40.10	32.05

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Plant*; Asphalt Heater and Planer combination; Asphalt Heater Scarfire*, Asphalt Spreader; Autograder/ GOMACO or similar; ABG Paver*, Backhoes with Caisson attachment*, Ballast Regulator, Belt Loader*; Caisson Rigs*Car Dumper, Central Redi-Mix Plant*, Combination Backhoe; Front End Loader Machine (1 cu yd or over Backhoe bucket or with attachments); Concrete Breaker (truck mounted); Concrete Conveyor; Concrete Paver over 27E cu ft*; Concrete Placer*; Concrete Tube Float; Cranes, all attachments*; Cranes, Hammerhead, Linden, Peco and machines of a like nature*; Creter Crane; Crusher, stone; All Derricks; Derrick Boats; Derricks, traveling*; Dowell Machine with Air Compressor (\$1.00 above Class 1); Dredges*; Field Mechanic Welder; Formless Curb and Gutter Machine*; Gradall and machines of a like nature*; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver mounted*; Hoists, one, two, and three Drum; Hydraulic Backhoes*; Backhoes with Shear attachments*; Mucking Machine; Pile Drivers and Skid Rig*; Pre-Stress Machine; Pump Cretes Dual Ram (requires frequent lubrication and water)*; Rock Drill- Crawler or Skid Rig*; Rock Drill truck mounted*; Rock/ Track Tamper; Roto Mill Grinder, (36" and over)*; Slip-Form Paver*; Soil Test Drill Rig, truck mounted*; Straddle Buggies; Hydraulic Telescoping Form (tunnel); Tractor Drawn Belt Loader*; Tractor Drawn Belt Loader with attached Pusher (two engineers); Tractor with boom; Tractaire with attachment; Traffic Barrier Transfer Machine*; Trenching Machine; Truck Mounted Concrete Pump with boom*; Underground Boring and/or Mining Machines 5 ft in diameter and over tunnel, etc.*; Wheel Excavator* & Widener (Apsco); Raised or Blind Hoe Drill, Tunnel & Shaft*

GROUP 2: Batch Plant*; Bituminous Mixer; Boiler and Throttle Valve; Bulldozer; Car Loader Trailing Conveyors; Combination Backhoe Front End Loader Machine, (less than 1 cu yd Backhoe Bucket with attachments); Compressor and Throttle Valve; Compressor, common receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S series to and including 27 cu ft; Concrete Spreader; Concrete Curing Machine; Burlap Machine; Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or similar type); Drills (all); Finishing Machine-Concrete; Greaser Engineer; Highlift Shovels or Front End Loader; Hoist- Sewer Dragging Machine; Hydraulic Boom Trucks, all attachments; Hydro-Blaster (requires two operators); Laser Screed*; Locomotives, Dinky; Off-Road Hauling Units (including articulating); Pump Cretes; Squeeze Cretes-Screw Type pumps, Gypsum Bulker and Pump; Roller Asphalt; Rotary Snow Plows; Rototiller, Seaman, self-Propelled; Scoops-Tractor Drawn; Self-propelled Compactor; Spreader-Chip-Stone; Scraper; Scraper-Prime Mover in Tandem regardless of size (add \$1.00 to Group 2 hourly rate for each hour and for each machine attached thereto add \$1.00 to Group 2 hourly rate for each hour); Tank Car Heater; Tractors, Push, pulling Sheeps Foot, Disc, or Compactor, etc; Tug Boats

GROUP 3: Boilers; Brooms, all power propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer, two bag and over; Conveyor, Portable; Farm type Tractors used for mowing, seeding, etc; Fireman on Boilers; Forklift Trucks; Grouting Machines; Hoists, Automatic; Hoists, all Elevators; Hoists, Tugger single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-hole Digger; Power Saw, Concrete, Power Driven; Pug Mills; Rollers, other than asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with A-Frame; Work Boats; Tamper-Form motor driven

GROUP 4: Air compressor - Small 250 and under (1 to 5 not to exceed a total of 300 ft); Air Compressor - Large over 250; Combination - Small Equipment Operator; Directional Boring Machine; Generators - Small 50 kw and under; Generators - Large , over 50 kw; Heaters, Mechanical; Hydraulic power unit (Pile Driving, Extracting or Drilling); Light Plants (1 to 5); Pumps, over 3" (1 to 3, not to exceed a total of 300 ft); Pumps, Well Points; Tractaire; Welding Machines (2 through 5); Winches, 4 small electric drill winches;

GROUP 5: Bobcats (All); Brick Forklifts; Oilers; Directional Boring

*Requires Oiler

IRON0001-026 06/01/2013

Rates Fringes

IRONWORKER

Sheeter.....	\$ 42.32	33.74
Structural and Reinforcing..	\$ 42.07	33.74

IRON0063-001 06/01/2013

Rates Fringes

IRONWORKER, ORNAMENTAL.....	\$ 42.90	30.11
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IRON0063-002 06/01/2014

Rates Fringes

IRONWORKER

Fence Erector.....	\$ 35.84	24.82
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IRON0136-001 07/01/2012

Rates Fringes

IRONWORKER

Machinery Movers; Riggers; Macinery Erectors.....	\$ 35.87	28.67
Master Riggers.....	\$ 38.37	28.67

LABO0002-006 06/01/2014

Rates Fringes

LABORER (BUILDING & RESIDENTIAL)

GROUP 1.....	\$ 38.00	24.40
GROUP 2.....	\$ 38.00	24.40
GROUP 3.....	\$ 28.075	24.40
GROUP 4.....	\$ 38.10	24.40
GROUP 5.....	\$ 38.15	24.40
GROUP 6.....	\$ 38.20	24.40
GROUP 7.....	\$ 38.22	24.40
GROUP 8.....	\$ 38.32	24.40
GROUP 9.....	\$ 38.35	24.40
GROUP 10.....	\$ 38.45	24.40
GROUP 11.....	\$ 38.27	24.40
GROUP 12.....	\$ 39.00	24.40

LABORER CLASSIFICATIONS

GROUP 1: Building Laborers; Plasterer Tenders; Pumps for Dewatering; and other unclassified laborers.

GROUP 2: Fireproofing and Fire Shop laborers.

GROUP 3: Cement Gun.

GROUP 4: Chimney over 40 ft.; Scaffold Laborers.

GROUP 5: Cement Gun Nozzle Laborers (Gunitite); Windlass and capstan person.

GROUP 6: Stone Derrickmen & Handlers.

GROUP 7: Jackhammermen; Power driven concrete saws; and other power tools.

GROUP 8: Firebrick & Boiler Laborers.

GROUP 9: Chimney on fire brick; Caisson diggers; & Well Point System men.

GROUP 10: Boiler Setter Plastic Laborers.

GROUP 11: Jackhammermen on fire brick work only.

GROUP 12: Dosimeter use (any device) monitoring nuclear exposure); Asbestos Abatement Laborer; Toxic and Hazardous Waste Removal Laborers.

LABO0002-007 06/01/2014

	Rates	Fringes
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LABORER (HEAVY & HIGHWAY)

GROUP 1.....	\$ 38.00	24.40
GROUP 2.....	\$ 38.27	24.40
GROUP 3.....	\$ 38.15	24.40
GROUP 4.....	\$ 38.27	24.40
GROUP 5.....	\$ 39.00	24.40

LABORER CLASSIFICATIONS

GROUP 1: Common laborer; Tenders; Material expeditor (asphalt plant); Street paving, Grade separation, sidewalk, curb & gutter, strippers & All laborers not otherwise mentioned

GROUP 2: Asphalt tampers & smoothers; Cement gun laborers

GROUP 3: Cement Gun Nozzle (laborers), Gunitite

GROUP 4: Rakers, Lutemen; Machine-Screwmen; Kettleman; Mixermen; Drun-men; Jackhammermen (asphalt); Paintmen; Mitre box spreaders; Laborers on birch, overman and similar spreader equipment; Laborers on APSCO; Laborers on air compressor; Paving Form Setter; Jackhammermen (concrete);

Power drive concrete saws; other power tools.

GROUP 5: Asbestos Abatement Laborers; Toxic and Hazardous Waste Removal Laborers, Dosimeter (any device) monitoring nuclear exposure

LABO0002-008 06/01/2014

	Rates	Fringes
LABORER (Compressed Air)		
0 - 15 POUNDS.....	\$ 39.00	24.40
16 - 20 POUNDS.....	\$ 40.50	24.40
21 - 26 POUNDS.....	\$ 41.00	24.40
27 - 33 POUNDS.....	\$ 42.00	24.40
34 - AND OVER.....	\$ 43.00	24.40
LABORER (Tunnel and Sewer)		
GROUP 1.....	\$ 38.00	24.40
GROUP 2.....	\$ 38.12	24.40
GROUP 3.....	\$ 38.22	24.40
GROUP 4.....	\$ 38.35	24.40
GROUP 5.....	\$ 39.00	24.40

LABORER CLASSIFICATIONS (TUNNEL)

GROUP 1: Cage tenders; Dumpmen; Flagmen; Signalmen; Top laborers

GROUP 2: Air hoist operator; Key board operator; concrete laborer; Grout; Lock tenders (Free Air Side); Steel setters; Tuggers; Switchmen; Car pusher

GROUP 3: Concrete repairmen; Lock tenders (pressure side); Mortar men; Muckers; Grout machine operators; Track layers

GROUP 4: Air trac drill operator; Miner; Bricklayer tenders; Concrete blower operator; Drillers; Dynamiters; Erector operator; Form men; Jackhammermen; Powerpac; Mining machine operators; Mucking machine operator; Laser beam operator; Liner plate and ring setters; Shield drivers; Power knife operator; Welder- burners; Pipe jacking machine operator; skimmers; Maintenance technician

GROUP 5: Asbestos abatement laborer; Toxic and hazardous waste removal laborer; Dosimeter (any device) monitoring nuclear exposure

LABORER CLASSIFICATIONS (SEWER)

GROUP 1: Signalmen; Top laborers and All other laborers

GROUP 2: Concrete laborers and Steel setters

GROUP 3: Cement carriers; Cement mixers; Concrete repairmen; Mortar men; Scaffold men; Second Bottom men

GROUP 4: Air trac drill operator; Bottom men; Bracers-bracing; Bricklayer tenders; Catch basin diggers; Drainlayers; dynamiters; Form men; Jackhammermen; Powerpac; Pipelayers; Rodders; Welder-burners; Well point systems men

GROUP 5: Asbestos abatement laborer, Toxic and hazardous waste removal laborer; Dosimeter (any device) monitoring nuclear exposure

LABO0225-001 06/01/2011

	Rates	Fringes
LABORER (DEMOLITION/WRECKING)		
GROUP 1.....	\$ 30.00	21.45
GROUP 2.....	\$ 35.20	21.45
GROUP 3.....	\$ 35.20	21.45

LABORER CLASSIFICATIONS

GROUP 1 - Complete Demolition

GROUP 2 - Interior Wrecking and Strip Out Work

GROUP 3 - Asbestos Work with Complete Demolition/Wrecking or Strip Out Work

PAIN0014-001 06/01/2014

	Rates	Fringes
PAINTER (including taper).....	\$ 41.75	23.47

PAIN0027-001 06/01/2014

	Rates	Fringes
GLAZIER.....	\$ 40.50	30.82

PLAS0005-002 07/01/2014

	Rates	Fringes
PLASTERER.....	\$ 42.25	24.24

PLAS0502-001 06/01/2014

	Rates	Fringes
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CEMENT MASON/CONCRETE FINISHER...\$ 43.10 26.39

PLUM0130-001 06/01/2014

Rates Fringes

PLUMBER.....\$ 46.65 25.52

PLUM0597-002 06/01/2014

Rates Fringes

PIPEFITTER.....\$ 46.00 26.84

ROOF0011-001 12/01/2014

Rates Fringes

ROOFER.....\$ 40.10 19.43

SFIL0281-001 01/01/2015

Rates Fringes

SPRINKLER FITTER.....\$ 47.25 22.05

SHEE0073-001 06/01/2011

Rates Fringes

Sheet Metal Worker.....\$ 40.56 27.23

SHEE0073-002 06/01/2011

Rates Fringes

Sheet Metal Worker
ALUMINUM GUTTER WORK.....\$ 27.63 27.23

TEAM0731-001 06/01/2011

COOK COUNTY - HEAVY AND HIGHWAY

Rates Fringes

TRUCK DRIVER

2 or 3 Axles.....\$ 33.85 16.85
4 Axles.....\$ 34.10 16.85
5 Axles.....\$ 34.30 16.85
6 Axles.....\$ 34.50 16.85

FOOTNOTES:

A. Paid Holidays: New Year's Day, Memorial Day,

Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

B. 900 straight time hours or more in 1 calendar year for the same employer shall receive 1 week paid vacation; 3 years - 2 weeks paid vacation; 10 years - 3 weeks paid vacation; 20 years - 4 weeks paid vacation.

C. An additional \$.20 per axle shall be paid for all vehicles with more than six (6) axles.

TEAM0731-002 03/01/2012

Rates Fringes

Traffic Control Device Monitor

TRAFFIC SAFETY WORKER:

Primary duties include but are not limited to the delivery, maintenance and pick-up of traffic control devices, the set-up and installation of traffic signs, pavement markings, barricades, crash barrels and glare screens, traffic control surveillance, the repair and maintenance trucks, cars, arrow boards, message signs, barricade and sign fabrication equipment.....\$ 28.25 9.08

TEAM0786-001 06/01/2008

COOK COUNTY - BUILDING AND RESIDENTIAL

Rates Fringes

TRUCK DRIVER

2 & 3 Axles.....	\$ 31.33	.10+a
4 Axles.....	\$ 31.58	.10+a
5 Axles.....	\$ 31.78	.10+a
6 Axles.....	\$ 31.98	.10+a

FOOTNOTES:

a. \$463.00 per week.

An additional \$.20 per axle shall be paid for all vehicles with more than six (6) axles.

Paid Holidays: New Year's Day, Memorial Day, Independence

Day, Labor Day, Thanksgiving Day, and Christmas Day.

900 straight time hours or more in 1 calendar year for the same employer shall receive 1 week paid vacation; 3 years - 2 weeks paid vacation; 10 years - 3 weeks paid vacation; 20 years - 4 weeks paid vacation.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted

because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

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State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
ADDITIONAL STATE REQUIREMENTS
FOR FEDERAL-AID CONSTRUCTION CONTRACTS

Effective: February 1, 1969
Revised: January 1, 2015

The following provisions are State of Illinois requirements and are in addition to the Federal requirements contained in FHWA-1273, "Required Contract Provisions Federal-Aid Construction Contracts".

"EQUAL EMPLOYMENT OPPORTUNITY

In the event of the Contractor's noncompliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act, or the Illinois Department of Human Rights Rules and Regulations, the Contractor may be declared ineligible for future Contracts or subcontracts with the State of Illinois or any of its political sub-divisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

During the performance of this contract, the Contractor agrees as follows:

- (1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (2) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (according to the Department's Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service.

(4) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

(5) That it will submit reports as required by the Illinois Department of Human Rights and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.

(6) That it will permit access to all relevant books, records, accounts, and work sites by personnel of the contracting agency and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.

(7) That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations."

"STATEMENTS AND PAYROLLS

The payroll records shall include the worker's name, the worker's address, the worker's telephone number when available, the worker's social security number, the worker's classification or classifications, the worker's gross and net wages paid in each pay period, the worker's number of hours worked each day, and the worker's starting and ending times of work each day. However, any Contractor or subcontractor who remits contributions to a fringe benefit fund that is not jointly maintained and jointly governed by one or more employers and one or more labor organization must additionally submit the worker's hourly wage rate, the worker's hourly overtime wage rate, the worker's hourly fringe benefit rates, the name and address of each fringe benefit fund, the plan sponsor of each fringe benefit, if applicable, and the plan administrator of each fringe benefit, if applicable.

The Contractor and each subcontractor shall submit payroll records to the Engineer each week from the start to the completion of their respective work, except that full social security numbers and home addresses shall not be included on weekly

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transmittals. Instead, the payrolls shall include an identification number for each employee (e.g., the last four digits of the employee's social security number). In addition, starting and ending times of work each day may be omitted from the payroll records submitted to the Engineer. The submittals shall be on the Department's form SBE 48, or an approved facsimile. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate box ("No Work", "Suspended", or "Complete") checked on the form."

"SUBLETTING OR ASSIGNING THE CONTRACT

The requirements of Section VI of FHWA-1273 are hereby made applicable to Secondary Road Plan Projects."

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State of Illinois
Department of Transportation

**SPECIAL PROVISION
FOR
SUBLETTING OF CONTRACTS
(FEDERAL-AID CONTRACTS)**

Effective: January 1, 1988
Revised: January 1, 2014

This Special Provision supersedes paragraph VI of FHWA-1273, "Required Contract Provisions Federal-Aid Construction Contracts".

"The Contractor shall not sublet, sell, transfer, assign, or otherwise dispose of the contract or contracts or any portion thereof, or of his/her right, title, or interest therein, without written consent of the Engineer. In case such consent is given, the Contractor will be permitted to sublet a portion thereof, but shall perform with the Contractor's own organization, work amounting to not less than 50 percent of the total contract cost, except any items designated in the contract as "specialty items" may be performed by subcontract and the cost of any such specialty items so performed by subcontract may be deducted from the total cost before computing the amount of work required to be performed by the Contractor with his/her own organization. Materials purchased or produced by the Contractor must be incorporated into the project by the Contractor's own organization if their cost is to be applied to the 50 percent requirement.

No subcontracts, or transfer of contract, shall in any case release the Contractor of his/her liability under the contract and bonds. All transactions of the Engineer will be with the Contractor. The Contractor shall have a representative on the job at all times when either contract or subcontract work is being performed.

All requests to subcontract shall contain a certification the subcontract agreement exists in writing and physically contains the required Federal and State Equal Employment Opportunity provisions and Labor compliance provisions, including the contract minimum wage requirements. The Contractor shall permit Department or Federal representatives to examine the subcontract agreements upon notice."

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State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
EEO

Effective: July 21, 1978
Revised: November 18, 1980

The requirements of the following provisions written for federally-assisted construction contracts, including all goals and timetables and affirmative action steps, shall also apply to all State-funded construction contracts awarded by the Illinois Department of Transportation.

Notice of Requirement for Affirmative Action to Ensure
Equal Employment Opportunity (Executive Order 11246)

1. The offeror's or bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

APPENDIX A

The following goal for female utilization in each construction craft and trade shall apply to all Contractors holding federal and federally-assisted construction contracts and subcontracts in excess of \$10,000. The goal is applicable to the Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a federal, federally assisted or nonfederally related construction contract or subcontract.

Area Covered (Statewide)

Goals for Women apply nationwide.

GOAL	Goal (percent)
Female Utilization	6.9

APPENDIX B

Until further notice, the following goals for minority utilization in each construction craft and trade shall apply to all Contractors holding federal or federally-assisted construction contracts and subcontracts in excess of \$10,000 to be performed in the respective geographical areas. The goals are applicable to the Contractor's total on-site construction workforce,

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regardless of whether or not part of that workforce is performing work on a federal, federally-assisted or nonfederally related construction contract or subcontract.

	<u>Economic Area</u>	Goal (percent)
056	Paducah, KY: Non - SMSA Counties - IL - Hardin, Massac, Pope KY - Ballard, Caldwell, Calloway, Carlisle, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, McCracken, Marshall	5.2
080	Evansville, IN: Non-SMSA Counties IL - Edwards, Gallatin, Hamilton, Lawrence, Saline, Wabash, White IN - Dubois, Knox, Perry, Pike, Spencer KY - Hancock, Hopkins, McLean, Muhlenberg, Ohio, Union, Webster	3.5
081	Terre Haute, IN: Non-SMSA Counties - IL - Clark, Crawford KY - Parke	2.5
083	Chicago, IL SMSA Counties: 1600 Chicago, IL - IL - Cook, DuPage, Kane Lake, McHenry, Will 3740 Kankakee, IL - IL - Kankakee Non-SMSA Counties - IL - Bureau, DeKalb, Grundy, Iroquois, Kendall, LaSalle, Livingston, Putnam IN - Jasper, Laporte, Newton, Pulaski, Starke	19.6 9.1 18.4
084	Champaign - Urbana, IL: SMSA Counties: 1400 Champaign - Urbana - Rantoul, IL - IL - Champaign Non-SMSA Counties - IL - Coles, Cumberland, Douglas Edgar, Ford, Piatt, Vermilion	7.8 4.8

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085	Springfield - Decatur, IL:	
	SMSA Counties:	
	2040 Decatur, IL -	7.6
	IL - Macon	
	7880 Springfield, IL -	4.5
	IL - Menard, Sangamon	
	Non-SMSA Counties	
	IL -Cass, Christian, DeWitt, Logan,	4.0
	Morgan, Moultrie, Scott, Shelby	
086	Quincy, IL:	
	Non-SMSA Counties -	3.1
	IL - Adams, Brown, Pike	
	MO - Lewis, Marion, Pike Rails	
087	Peoria, IL:	
	SMSA Counties:	
	1040 Bloomington - Normal, IL -	2.5
	IL - McLean	
	6120 Peoria, IL -	4.4
	IL - Peoria, Tazewell, Woodford	
	Non-SMSA Counties -	3.3
	IL - Fulton, Knox, McDonough, Marshall,	
	Mason, Schuyler, Stark, Warren	
088	Rockford, IL:	
	SMSA Counties:	
	6880 Rockford, IL -	6.3
	IL - Boone, Winnebago	
	Non-SMSA Counties -	4.6
	IL - Lee, Ogle, Stephenson	
098	Dubuque, IA:	
	Non-SMSA Counties -	0.5
	IL - JoDaviess	
	IA - Atlamakee, Clayton, Delaware,	
	Jackson, Winnesheik	
	WI - Crawford, Grant, Lafayette	
099	Davenport, Rock Island, Moline, IA - IL:	
	SMSA Counties:	
	1960 Davenport, Rock Island, Moline, IA - IL -	4.6
	IL - Henry, Rock Island	
	IA - Scott	
	Non-SMSA Counties -	3.4
	IL - Carroll, Hancock, Henderson,	
	Mercer, Whiteside	
	IA - Clinton, DesMoines, Henry,	
	Lee, Louisa, Muscatine	
	MO - Clark	

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107	SMSA Counties:	
	7040 St. Louis, MO - IL -	14.7
	IL - Clinton, Madison, Monroe, St. Clair	
	MO - Franklin, Jefferson, St. Charles,	
	St. Louis, St. Louis City	
	Non-SMSA Counties -	11.4
	IL - Alexander, Bond, Calhoun, Clay,	
	Effingham, Fayette, Franklin, Greene,	
	Jackson, Jasper, Jefferson, Jersey,	
	Johnson, Macoupin, Marion, Montgomery,	
	Perry, Pulaski, Randolph, Richland,	
	Union, Washington, Wayne, Williamson	
	MO - Bollinger, Butler, Cape Girardeau,	
	Carter, Crawford, Dent, Gasconade,	
	Iron, Lincoln, Madison, Maries,	
	Mississippi, Montgomery, Perry,	
	Phelps, Reynolds, Ripley, St. Francois,	
	Ste. Genevieve, Scott, Stoddard, Warren,	
	Washington, Wayne	

These goals are applicable to all the Contractor's construction work (whether or not it is federal or federally-assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with Executive Order 11246 and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the provisions and specifications set forth in its federally assisted contracts, and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246 and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Illinois Department of Transportation will provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten working days of award of any construction contract and/or subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. This notification will list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and

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completion dates of the subcontract; and the geographical area in which the contract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is the entire State of Illinois for the goal set forth in APPENDIX A and the county or counties in which the work is located for the goals set forth in APPENDIX B.

STANDARD FEDERAL EQUAL EMPLOYMENT
OPPORTUNITY CONSTRUCTION CONTRACT
SPECIFICATIONS (EXECUTIVE ORDER 11246)

1. As used in these specifications:
 - (a) "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - (b) "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - (c) "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - (d) "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individual or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan.

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Each Contractor or subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction Contractors performing construction work in geographical areas where they do not have a federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal Procurement contracting officers. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a) Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each

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construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

- b) Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c) Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the Union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
- d) Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e) Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f) Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g) Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff,

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termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

- h) Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and subcontractors with whom the Contractor does or anticipates doing business.
- i) Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship of other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j) Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.
- k) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l) Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n) Ensure that all facilities and company activities are non-segregated, except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

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- o) Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractors and suppliers, including circulation of solicitations to minority and female Contractor associations and other business associations.
 - p) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specified minority group of women is underutilized).
 10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
 11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out

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such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade rate of pay and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, Contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

CHECK SHEET #LRS17

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
SUBSTANCE ABUSE PREVENTION PROGRAM

Effective: January 1, 2008
Revised: January 1, 2014

In addition to all other labor requirements set forth in this proposal and in the Standard Specification for Road and Bridge Construction, adopted by the Department, during the performance of this contract, the Contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

Substance Abuse Prevention Program. Before the Contractor and any subcontractor commences work, the Contractor and any subcontractor shall have in place a written Substance Abuse Prevention Program for the prevention of substance abuse among its employees which meets or exceeds the requirements in 820 ILCS 265 or shall have a collective bargaining agreement in effect dealing with the subject matter of 820 ILCS 265.

The Contractor and any subcontractor shall file with the public body engaged in the construction of the public works: a copy of the Substance Abuse Prevention Program along with a cover letter certifying that their program meets the requirements of the Act, or a letter certifying that the Contractor or a subcontractor has a collective bargaining agreement in effect dealing with the subject matter of this Act.

**SPECIAL PROVISION FOR COMMUNITY DEVELOPMENT BLOCK GRANT
FUNDING**

The contractor is specifically advised that a portion of the funding for **CENTER STREET – 171st Street to 159th Street**, Section Number **02-W5208-02-RP**, Federal Project Number M-4003(379), Federal Job Number C-91-424-14, Cook County Contract Number **1555-14616** and the City of Harvey, Illinois is a sub-grantee of Cook County of a grant made pursuant to the Housing and Community Development Act of 1974, pursuant to an agreement entered into and between the County of Cook and the City of Harvey. Further, the estimated percentage of the total cost of this project to be funded with federal dollars through the county's CDBG program is a maximum of \$650,000. 00.

The contractor will be required to provide a copy of all required paperwork as described in the contract specifications and as described below to the Resident Engineer. This work will not be paid for separately, but considered incidental to the contract.

ILLINOIS EQUAL EMPLOYMENT OPPORTUNITY AND FEDERAL EQUAL EMPLOYMENT OPPORTUNITY

See FHWA 1273, Supplemental and Recurring Special Provisions for ADDITIONAL STATE REQUIREMENTS FOR FEDERAL-AID CONSTRUCTION CONTRACTS, USBLETTING OF CONTRACTS (FEDERAL-AID CONTRACTS) AND EEO, Cook County requires that the EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE CERTIFICATE be executed by the contractor awarded this project. This certificate will need to be executed and returned to

Cook County Department of Transportation and Highways
Construction Department
69 West Washington Street – 23rd Floor
Chicago, IL 60602

**SECTION 3 CLAUSE
24 CFR, PART 135.20 AND GRANT AGREEMENT**

Every applicant, recipient, contracting party, contractor, and subcontractor shall incorporate, or cause to be incorporated, in all contracts for work in connection with a Section 3 covered project, the following clause (referred to as Section 3 clause):

A. The work to be performed under this Contract is on a project assisted under a program providing direct Federal financial assistance from the Department of Housing and Urban Development and is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 170 1u. Section 3 requires that to the greatest extent

feasible opportunities for training and employment be given lower income residents of the project to be awarded to business concerns which are located in or owned in substantial part by persons residing in the area of the project.

B. The parties to this Contract will comply with the provisions of said Section 3 and the regulations issued pursuant thereto by the Secretary of Housing and Urban Development set forth in 24 CFR, 135, and all applicable rules and orders of the Department issued thereunder prior to the execution of this Contract. The parties to the Contract certify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.

C. The Contractor will send to each labor organization or representative of workers with which he has a collective bargaining agreement or other Contract or understanding, if any, a notice advising the said labor organization or worker's representative of his commitments under this Section 3 clause and shall post copies of the notice inconspicuously placed available to employees and applicants for employment or training.

D. The Contractor will include this Section 3 clause in every subcontract for work in connection with the project and will at the direction of the applicant for or recipient of Federal financial assistance, take appropriate action pursuant to the subcontract upon a finding that the subcontractor is in violation of regulations issued by the Secretary of Housing and Urban Development 24 CFR 135. The Contractor will not subcontract with any subcontractor where it has notice or knowledge that the latter has been found in violation of regulations under 24 CFR 135 and will not let any subcontract unless the subcontractor has first provided it with preliminary statement of ability to comply with the requirements of these regulations.

E. Compliance with the provisions of Section 3, the regulations set forth in 24 CFR 135, and all applicable rules and orders of the Department issued thereunder prior to execution of the Contract shall be a condition of the Federal financial assistance provided to the project, binding upon the applicant or recipient, its contractors and subcontractors, its successors, and assigns to those sanctions specified by the grant or loan agreement or contract through which Federal assistance is provided and to such sanctions as are specified by 24 CFR 135.

NOTE: Contractors are required to submit a Section 3 Affirmative Action Plan within 15 days of award of Contract. The Plan is to describe the Contractor's affirmative efforts to train and employ lower income residents of the project area and to subcontract work with small businesses in the project area.

CONTRACT WORK HOURS AND SAFETY STANDARDS ACT PROVISION

Where applicable, all contracts awarded by grantees and sub grantees in excess of \$2,000.00, for construction contracts and in excess of \$2,500.00 for other contracts which involve the employment of mechanics or laborers shall include a provision for compliance with Section 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by the Department of Labor regulations (29 CFR, Part 5). Under Section 103 of the Act, each contractor shall be required to compute the wages of every mechanic and laborer on the basis of a standard work day of eight (8) hours and a standard work week of forty (40) hours. Work in excess of the standard work day or work week is permissible provided that the worker is compensated at a rate of not less than one and one-half (1 ½) times the basic rate of pay for all hours work in excess of eight (8) hours in any calendar day or forty (40) hours in the work week. Section 107 of the Act is applicable to construction work and provides that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous to his health and safety as determined under construction, safety and health standards promulgated by the Secretary of Labor. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

CLEAN AIR ACT OF 1970 and the FEDERAL WATER POLLUTION CONTROL ACT PROVISIONS

Contracts and sub grants of amounts in excess of \$100,000.00 shall contain a provision which requires the recipient to agree to all applicable standards, orders, or regulations issued pursuant to the Clean Air Act of 1970 (42 U.S.C. 1857 et seq.) and the Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.) as amended. Violations shall be reported to the grantor agency and the Regional Office of The Environmental Protection Agency.

ARCHITECTURAL BARRIERS ACT OF 1968 PROVISION

All contracts for construction of facilities shall contain a provision which requires the recipient to comply with the Architectural Barriers Act of 1968 (42 U.S.C. 4151) Standard Specification for Making Buildings and Facilities Accessible and Usable by Physically Handicapped, Number A-117.1 – 1961, as modified.

RECORD KEEPING AND INSPECTION

During the performance of this Contract, the Contractor agrees that the municipality, the Federal Grantor Agency, the Comptroller General of the United States, or any of their duly authorized representative shall have access to books, documents, papers and records of the Contractor which are directly pertinent to a

specific grant program for the purpose of making an audit, examination, excerpts and transcriptions.

**FEDERAL LABOR STANDARDS PROVISIONS AND MINIMUM WAGESW
FOR FEDERALLY ASSISTED CONTRUCTION**

See FHWA 1273

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (DBE)

Effective: September 1, 2000

Revised: August 2, 2011

FEDERAL OBLIGATION. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR Part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR Part 26 and listed in the Illinois Unified Certification Program (IL UCP) DBE Directory.

STATE OBLIGATION. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. When this Special Provision is used to satisfy state law requirements on 100 percent state-funded contracts, the federal government has no involvement in such contracts (not a federal-aid contract) and no responsibility to oversee the implementation of this Special Provision by the Department on those contracts. DBE participation on 100 percent state-funded contracts will not be credited toward fulfilling the Department's annual overall DBE goal required by the US Department of Transportation to comply with the federal DBE program requirements.

CONTRACTOR ASSURANCE. The Contractor makes the following assurance and agrees to include the assurance in each subcontract that the Contractor signs with a subcontractor.

The Contractor, sub recipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of contracts funded in whole or in part with federal or state funds. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR Part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Cook County Department of Transportation and Highways. The goal has been included because the Cook County Department of Transportation and Highways has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. The determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 38.5% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Cook County Department of Transportation and Highways will only recommend award this

contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

- (a) The bidder documents that enough DBE participation has been obtained to meet the goal: or
- (b) The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

DBE LOCATOR REFERENCES. Bidders shall consult the IL UCP DBE Directory as a reference source for DBE-certified companies. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217)785-4611, or by visiting the Department's website at www.dot.il.gov.

BIDDING PROCEDURES. Compliance with this Special Provision is a material bidding requirement. The failure of the bidder to comply will render the bid not responsive.

- (a) The bidder shall submit a Disadvantaged Business Utilization Plan on Department forms with the bid.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, for each DBE proposed for the performance of work to achieve the contract goal. All elements of information indicated on the said form shall be provided, including but not limited to the following:
 - (1) The names and addresses of DBE firms that will participate in the contract;
 - (2) A description, including pay item numbers, of the work each DBE will perform;
 - (3) The dollar amount of the participation of each DBE firm participating. The dollar amount of participation for identified work shall specifically state the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
 - (4) DBE Participation Commitment Statements, signed by the bidder and each participating DBE firm documenting the commitment to use the DBE subcontractors whose participation is submitted to meet the contract goal;
 - (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s); and,
 - (6) If the contract goal is not met, evidence of good faith efforts.

GOOD FAITH EFFORT PROCEDURES. The contract will not be awarded until the Utilization Plan submitted by the apparent successful bidder is approved. All information submitted by the bidder must be complete, accurate and adequately document that enough DBE participation has been obtained or document that good faith efforts of the bidder, in the event enough DBE participation has not been obtained. The Utilization Plan will be approved by the Cook County Department of Transportation and Highways if the Utilization Plan documents sufficient commercially useful DBE work performance to meet the contract goal or the bidder submits sufficient documentation of a good faith effort to meet the contract goal pursuant to 49 CFR Part 26, Appendix A. The Utilization Plan will not be approved by the Cook County Department of Transportation and Highways if the Utilization Plan does not document sufficient DBE participation to meet the contract goal unless the apparent successful bidder documented in the Utilization Plan that it made a good faith effort to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which, by their scope, intensity and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not successful. The Cook County Department of Transportation and Highways will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts, in other words, efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

- (a) The following is a list of types of action that the Cook County Department of Transportation and Highways will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Cook County Department of Transportation and Highways may be relevant in appropriate cases, and will be considered by the Cook County Department of Transportation and Highways.
- (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
 - (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.
 - (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
 - (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and

suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.

b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.

- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
 - (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
 - (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
 - (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Cook County Department of Transportation and Highways determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Cook County Department of Transportation and Highways will recommend award the contract provided that it is otherwise eligible for award. If the Cook County Department of Transportation and Highway determines that the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Cook County Department of Transportation and Highways will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons for the determination.
- (c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the **five (5) working days** after the receipt of the notification date of the determination by delivering the request to the Cook County Department of

Transportation and Highways, Contract Documents Administrator. Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be forwarded to the Cook County Department of Transportation and Highways. The Cook County Department of Transportation and Highways will extend an opportunity to the bidder to meet in person in order to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Cook County Department of Transportation and Highways, the bidder will be sent a written decision within **ten (10) working days** after receipt of the request for consideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Cook County Department of Transportation and Highways that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

CALCULATING DBE PARTICIPATION. The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Cook County Department of Transportation and Highways is only able to count toward the achievement of the overall goal and the contract goal the value of payments made for the work actually performed by DBE companies. In addition, a DBE must perform a commercially useful function on the contract to be counted. A commercially useful function is generally performed when the DBE is responsible for the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. The Cook County Department of Transportation and Highways and Contractor are governed by the provisions of 49 CFR Part 26.55(c) on questions of commercially useful functions as it affects the work. Specific counting guidelines are provided in 49 CFR Part 26.55, the provisions of which govern over the summary contained herein.

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.
- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:

- (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
 - (2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission is receives as a result of the lease arrangement.
- (e) DBE as a material supplier:
- (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
 - (2) 100 percent goal credit for the cost of materials of supplies obtained from a DBE manufacturer.
 - (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

CONTRACT COMPLIANCE. Compliance with this Special Provision is an essential part of the contract. The Cook County Department of Transportation and Highways is prohibited by federal regulations from crediting the participation of a DBE included in the Utilization Plan toward either the contract goal or the Department's overall goal until the amount to be applied toward the goals has been paid to the DBE. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan. After approval of the Utilization Plan and award of the contract, the Utilization Plan and individual DBE Participation Statements become part of the contract. If the Contractor did not succeed in obtaining enough DBE participation to achieve the advertised contract goal, and the Utilization Plan was approved and contract awarded based upon a determination of good faith, the total dollar value of DBE work calculated in the approved Utilization Plan as a percentage of the awarded contract value shall become the amended contract goal. All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the Participation Statement.

- (a) **NO AMENDMENT.** No amendment to the Utilization Plan may be made without prior written approval from the Cook County Chief Procurement Officer. All requests for amendment to the Utilization Plan shall be submitted to the Cook County Office of the Chief Procurement Officer with copies to Cook County Department of Transportation and Highways, Construction Bureau.
- (b) **TERMINATION OR REPLACEMENT.** The Contractor shall not terminate or replace a DBE listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in the Special Provision.
- (c) **CHANGES TO WORK.** Any deviation from the DBE condition-of-award or contract plans, specifications, or special provisions must be approved, in writing, by the Cook County Chief Procurement Officer as provided elsewhere in the Contract. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract. Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A, must be signed and submitted to the Cook County Department of

Transportation and Highways. If the commitment of work is in the form of additional tasks assigned to an existing DBE subcontract, than a revised Request for Approval of Subcontractor shall be required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.

- (d) **ALTERNATIVE WORK METHODS.** In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractor-initiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create under runs in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
- (1) That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or
 - (2) That the DBE is aware that its work will be deleted or will experience under runs and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
 - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonable competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.
- (e) **TERMINATION AND REPLACEMENT PROCEDURES.** The Contractor shall not terminate or replace a DBE subcontractor listed in the approved Utilization Plan without prior written consent. This includes, but is not limited to, instances in which the Contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm. Written consent will be granted only if the Chief Procurement Officer agrees, for reasons stated in its concurrence document, that the Contractor has good cause to terminate or replace the DBE firm. Before transmitting to the Chief Procurement Officer any request to terminate and/or substitute a DBE subcontractor, the Contractor shall give notice in writing to the DBE subcontractor, with a copy to the Chief Procurement Officer and Cook County Department of Transportation and Highways - Construction Bureau, of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor shall give the DBE **five (5) days** to respond to the Contractor's notice. The DBE so notified shall advise the Chief Procurement Officer, Cook County Department of Transportation and Highways - Construction Bureau and the Contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why the Chief Procurement Officer should not approve the Contractor's action. If required in a particular case as a matter of public necessity, the Chief Procurement Officer may provide a response period shorter than **five (5) days**.

For purposes of this paragraph, good cause includes the following circumstances:

- (1) The listed DBE subcontractor fails or refuses to execute a written contract;
- (2) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor;
- (3) The listed DBE subcontractor fails or refuses to meet the prime Contractor's reasonable, nondiscriminatory bond requirements;
- (4) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (5) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law.
- (6) You have determined that the listed DBE subcontractor is not a responsible contractor;
- (7) The listed DBE subcontractor voluntarily withdraws from the projects and provides to you written notice of its withdrawal;
- (8) The listed DBE is ineligible to receive DBE credit for the type of work required;
- (9) A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract;
- (10) Other documented good cause that compels the termination of the DBE subcontractor. Provided, that good cause does not exist if the prime Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the prime Contractor can self-perform the work for which the DBE contractor was engaged or so that the prime Contractor can substitute another DBE or non-DBE contractor after contract award.

When a DBE is terminated, or fails to complete its work on the Contract for any reason the Contractor shall make a good faith effort to find another DBE to substitute for the original DBE to perform at least the same amount of work under the contract as the terminated DBE to the extent needed to meet the established Contract goal.

- (f) **PAYMENT RECORDS.** The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Cook County Department of Transportation and Highways for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty (30) calendar days after payment has been made by the Cook County Department of Transportation and Highways to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to Cook County Department of Transportation and Highways – Construction Bureau. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or

if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Cook County Department of Transportation and Highways may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (h) of this part.

- (g) **ENFORCEMENT.** The Cook County Department of Transportation and Highways reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.
- (h) **RECONSIDERATION.** Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Cook County Chief Procurement Officer with copies to Cook County Department of Transportation and Highways – Construction Bureau and shall be handled and considered in the same manner as set forth in paragraph (c) of “Good Faith Effort Procedures” of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Cook County Chief Procurement Officer.

Assist Agencies

ILLINOIS DEPARTMENT OF TRANSPORTATION
Bureau of Local Roads and Streets
201 West Center Court
Schaumburg, IL 60196
847-705-4795
847-705-4203 (Fax)
Moud.Ahmad@illinois.gov

Carnice Carey
Executive Director
Cosmopolitan Chamber of Commerce
30 E. Adams Street, Suite 1050
Chicago, IL 60603
312-786-0212
312-786-9079 (FAX)
ccarey@cosmochamber.com

Mr. Miguel Nogueras
Executive Director
Puerto Rican Chamber of Commerce
2450 West Division
Chicago, IL 60622
773-904-7996
773-583-3118 (FAX)

ILLINOIS ROAD BUILDERS
500 Park Boulevard
Itasca, IL 60143
630-773-1220
630-773-1231 (FAX)
Liz@irtba.org
Annette@irtba.org

TARGET GROUP, INC.
330 South Wells Street
Suite 400
Chicago, IL 60606
312-873-0200
312-873-0299 (FAX)
jwilliams@targetgroupinc.com

Ms. Sheila Hill Morgan
Executive Director
CHICAGO MINORITY SUPPLIER DEVELOPEMTN COUNCIL
(C.M.S.D.C.)
105 West Adams
Chicago, IL 60603
312-755-8880
312-755-8890 (FAX)
shillmorgan@chicagomsc.org

Victor Davis
Contractor Development Program
CHICAGO URBAN LEAGUE
4510 South Michigan Avenue
Chicago, IL 60653
773-451-3559
773-285-7772 (FAX)
twatley@thechicagourbanleague.org

Ms. Beth Doria
FEDERATION of WOMEN CONTRACTORS
5650 South Archer Avenue
Chicago, IL 60638
312-360-1122
312-360-0239 (FAX)
fwcchicago@aol.com

Ms. Joyce Shannahan
Director
INDUSTRIAL COUNCIL of NEARWEST
2023 West Carroll Avenue
Chicago, IL 60612
312-421-3941
312-421-1871 (FAX)
joyce@industrialcouncil.com

D. Lorenzo Padron
Director of Procurement
LATIN AMERICAN CHAMBER of COMMERCE
3512 West Fullerton Avenue
Chicago, IL 60647
773-252-5211
773-252-7065 (FAX)
randrade@latinamericanchamberofcommerce.com

Mr. Frank Aguilar
President
LITTLE VILLAGE 26th STREET AREA CHAMBER OF COMMERCE
3610 West 26th Street
Chicago, IL 60623
773-521-5387
312-521-5387 (FAX)
senortamale@msn.com

Perry Gunn
Executive Director
NORTH RIVER COMMISSION/LADCOR
3403 West Lawrence – Suite 201
Chicago, IL 60625
773-478-0202
773-478-0282

Ms. Angela R. Johnson
National Director of International Trade Bureau
RAINBOW P.U.S.H.
930 East 50th Street
Chicago, IL 60615
773-373-3366
312-373-3571 (FAX)
mturner@rainbowpush.org

Ms. Patricia Showers
Executive Director
UPTOWN CENTER/HULL HOUSE
4520 North Beacon
Chicago, IL 60640
773-561-3500
312-561-3507 (FAX)
croeschley@hullhouse.org

Ms. Emilia DiMenco
Chief Operating Officer
WOMEN'S BUSINESS DEVELOPMENT CENTER
8 South Michigan
Suite 400
Chicago, IL 60604
312-853-3477
312-853-0145 (FAX)
edimenco@wbdc.org

Sharah Garrett
American Council of Engineering Companies of Illinois (ACEC Illinois)
5221 South 6th Street Road
Suite 120
Springfield, IL 62703
217-529-7430
sharah@acecil.org

Cook County Departments

Cook County Office of the Chief Procurement Officer
118 N. Clark Street – Room 1018
Chicago, Illinois 60602
312-603-6729

Cook County Department of Transportation and Highways
Contract Documents Administrator
69 W. Washington Street – Suite 2400
Chicago, Illinois 60602
312-603-1830

Cook County Office of Contract Compliance
118 North Clark Street
10th Floor
Chicago, Illinois 60602
312-603-5370

WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012

The Contractor shall provide a weekly report of Disadvantaged Business Enterprise (DBE) trucks hired by the Contractor or subcontractors (i.e. not owned by the Contractor or subcontractors) that are used on the jobsite; or used for the delivery and/or removal of equipment/material to and from the jobsite. The jobsite shall also include offsite locations, such as plant sites or storage sites, when those locations are used solely for this contract.

The report shall be submitted on the form provided by the Department within ten business days following the reporting period. The reporting period shall be Monday through Sunday for each week reportable trucking activities occur. The report shall be submitted to the Engineer and a copy shall be provided to the district EEO Officer.

Any costs associated with providing weekly DBE trucking reports shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

80302

SPECIAL PROVISION
FOR
INSURANCE REQUIREMENTS

Within fourteen (14) days of notification of award, the bidder shall, at its cost, procure and maintain insurance with coverage in amounts not less than (i) governing law, (ii) as specified herein, or (iii) as actually maintained by Contractor. The cost to the Contractor for providing this insurance coverage shall be considered as included in the cost of the contract.

Nothing contained in these insurance requirements is to be construed as limiting the extent of the Contractor's responsibility for payment of damages resulting from its operations under this Contract.

Contractor shall require all subcontractors to provide the insurance required in this Agreement, or Contractor may provide said coverage for subcontractors. All subcontractors are subject to the same insurance requirements as Contractor unless specified otherwise.

The Cook County Department of Risk Management maintains the right to modify, delete, alter or change these requirements.

The Contractor shall maintain insurance as set forth below.

A. Workers Compensation Insurance

In accordance with the Laws of the State of Illinois and including Employer's Liability Insurance with limits not less than the following:

The Workers Compensation policy shall also include the following provisions:

Bodily Injury by accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 policy limit
Bodily Injury by Disease	\$1,000,000 each employee

B. Commercial General Liability Insurance

For bodily injury, personal injury and property damage on an occurrence form (ISO Form CG 0001 or equivalent) with limits not less than the following:

Each Occurrence	\$1,000,000
General Aggregate per Project	\$2,000,000
Products – Completed Operations Aggregate	\$2,000,000

i) All Premises and Operations.

- ii) Explosion, collapse and underground damage.
- iii) Contractual liability for the obligations assumed in the Indemnification and Hold Harmless agreement.
- iv) Contractor's Protective coverage for independent contractors or subcontractors employed by Contractor.

Such policy must contain (i) ISO Additional Insured Endorsements CG 2010 and CG 2037 or equivalent, and (ii) severability of interest/separation of insured clause. The products and completed operations coverage (including ISO Endorsement CG 2037 or equivalent) must be maintained for a period of two years after final acceptance of the Project.

C. Commercial Automobile Liability Insurance

For bodily injury and property damage arising from the ownership, maintenance or use of owned, hired and non-owned vehicles (ISO Form CA 00 01 or equivalent) with a limit no less than \$1,000,000 per accident.

Cook County, its officials and employees shall be listed as additional insured with respect to operations performed.

D. Excess Liability

Such policy shall be excess over Commercial General Liability, Automobile Liability, and Employer's Liability with limits not less than the following amounts:

Each Occurrence:	\$5,000,000
General Aggregate per Project:	\$5,000,000

Cook County, its officials and employees shall be listed as additional insured with respect to operations performed.

If the policy is a 'claims made' form or if any coverage under this policy is written as 'claims made', coverage will be maintained for two (2) years after project completion.

Additional Insured

The required insurance policies, with the exception of the Workers Compensation, must name the following as additional insured:

- Cook County, its officials and employees as additional insured**
- City of Harvey, its officials and employees as additional insured**

with respect to operations performed. The Commercial General Liability policy shall specifically include **ISO Additional Insured Endorsements CG 2010 and CG 2037 or equivalent**. Contractor's insurance shall be primary and non-contributory with any insurance maintained by such additional insured.

No other form will be accepted without prior approval of the Cook County Department of Transportation and Highways. All liability policies shall entirely delete ISO endorsements CG21 39 10 93 or similar endorsement or policy provision which limit contractual liability.

As part of the provisions and requirement for this project, other entities may be required to be added as an "additional insured" on the liability insurance of the Contractor. The Contractor shall assure these entities are included as additional insured.

Qualification of Insurers

All insurers must possess an A.M. Best rating of A- VII or better and be authorized to do business in Illinois. The insurance limits required herein may be satisfied by a combination of primary, umbrella and/or excess liability insurance policies. Companies with ratings lower than (A-) or VII will be acceptable only upon written consent of Superintendent of Transportation and Highways. Upon written request from the Superintendent of Transportation and Highways, Contractor must supply certified copies of the required insurance policies within ten (10) days.

Certificates of Insurance

Within fourteen (14) days of notification of award, the Contractor must provide properly completed certificates of insurance on Acord forms which evidence the required insurance. The certificates must specifically list each of the required additional insured and specify that Waiver of Subrogation Endorsements apply. The certificates must be accompanied by the required Commercial General Liability ISO Additional Insured Endorsements CG 2010 and CG 2037 (or equivalent).

The receipt of any certificate of insurance does not constitute agreement by the County that the insurance requirements have been fully met or that the insurance policies indicated on the certificate of insurance are in compliance with the insurance required above. Coverage shall be in companies subject to approval of the County.

In no event shall any failure of the County to receive certificates of insurance required hereof or to demand receipt of such Certificates of Insurance be construed as a waiver of Contractor's obligations to obtain insurance pursuant to

these insurance requirements. The certificates shall also include the following: **The coverage and limits conform to the minimum required by Article 107.27 of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction.**

Notice of Cancellation or Non-Renewal

Contractor shall provide the Superintendent of Highways and Transportation with thirty (30) days advance written notice in the event any required insurance will be cancelled, materially reduced or non-renewed. Contractor shall secure replacement coverage to comply with the stated insurance requirements and provide new certificates of insurance to the Superintendent of Transportation and Highways. .

In the event the insurance is cancelled before the completion of the project, the County shall reserve its rights under the contract, including but not limited to its rights under Article 108.07 of the Standard Specifications For Road and Bridge Construction, to order the job shut down until the Contractor obtains the required insurance in the amounts stated herein or, the County may obtain the coverage required and then shall deduct the appropriate premium cost from the monies due the Contractor.

Property Insurance

Contractor is responsible for all loss or damage to personal property (including materials, equipment, tools and supplies) owned, rented or used by Contractor.



CAPICEM-01 PATHAKAL

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/2/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Willis of Illinois, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 37230-5191	CONTACT NAME: Willis Certificate Center	
	PHONE (A/C No. Ext): (877) 945-7378 FAX (A/C No.): (888) 467-2378	
INSURED Capitol Cement Company, Inc. 6231 North Pulaski Road Chicago, IL 60646	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: Old Republic General Insurance Corporation	24139
	INSURER B: Great American Insurance Company	16691
	INSURER C: Starr Indemnity & Liability Company	38318
	INSURER D: Lexington Insurance Company	19437
	INSURER E:	
	INSURER F:	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	X	X	A5CG97361505	03/01/2015	03/01/2016	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER:						
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS	X	X	A5CA97361504	03/01/2015	03/01/2016	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	X	X	TUU066485601	03/01/2015	03/01/2016	EACH OCCURRENCE \$ 14,000,000 AGGREGATE \$ 14,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	A5CW97361505	03/01/2015	03/01/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Leased/Rented Equip.			SICON1000703144	03/01/2015	03/01/2016	500,000 per item / 1,000,000
D	Cont. Pollution Liab			CPO15908381	03/01/2015	03/01/2017	Per Incident/ Agg 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

THIS VOIDS AND REPLACES PREVIOUSLY ISSUED CERTIFICATE DATED 05/22/2015

Re: Center Street - 171st Street to 159th Street (In the City of Harvey)

Cook County Contract No. 1555-14616

Section No. 02-W5208-02-RP

Federal Project No.: M-4003(379)

CDBG No. DR-IN-R2-02

SEE ATTACHED ACORD 101

CERTIFICATE HOLDER

CANCELLATION

Cook County c/o Dept. of Transportation and Highways 69 W. Washington Street, 24th Floor - Contract Documents Chicago, IL 60602	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Andrea Paris</i>

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ADDITIONAL REMARKS SCHEDULE

AGENCY Willis of Illinois, Inc.		NAMED INSURED Capitol Cement Company, Inc. 6231 North Pulaski Road Chicago, IL 60646	
POLICY NUMBER SEE PAGE 1			
CARRIER SEE PAGE 1	NAIC CODE SEE P 1	EFFECTIVE DATE: SEE PAGE 1	

ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance**

Description of Operations/Locations/Vehicles:

Cook County, its officials and employees and City of Harvey, and their officials and employees are included as Additional Insureds as respects to General Liability and Auto Liability.

General Liability and Auto Liability policies shall be Primary and Non-contributory with any other insurance in force for or which may be purchased by Additional Insureds.

Waiver of Subrogation applies in favor of Additional Insureds with respects to General Liability, Auto Liability, and Workers Compensation as permitted by law.

The Umbrella policy follows Form.

The General Liability policy includes a Severability of Interest clause.

Coverage for XCU, Contractual Liability and Independent Contractors is provided under General Liability policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
As required by written contract or agreement	The locations as specified in the written contracts or agreements
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
 2. Available under the applicable Limits of Insurance shown in the Declarations;
- whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
Any person or organization contractually requiring status as an additional insured for ongoing operations that you perform for them	The locations as specified in the written contracts or agreements
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement;
or

2. Available under the applicable Limits of Insurance shown in the Declarations;
whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations



The Travelers Companies Inc.
OCP and RRP Unit
343 Thornall Street
Edison, NJ 08837

Re: Rail Road Protective Liability Quotation

Dear Willis Group

The following outlines the coverage forms, limits of liability and policy amendments provided in this proposal. Any policy coverages/limits of liability requested by you in your coverage specifications that are not affirmed in the following are not contemplated by this proposal. Please note that changes in the exposures, limits, or coverages may result in changes in rates and/or account pricing.

The policy may also be subject to state-mandated endorsements. As Broker/Agent you will be responsible for being aware of and complying with the various legal requirements associated with countersignature in the jurisdiction covered by the policy. Unless accepted, the offer of insurance contained in this proposal expires automatically on the date indicated below.

Please be advised that our quote will be as follows:

Quote Date: 05/27/2015

Quote Expiration Date: 08/25/2015

Submission No.: 74470

Insured: ILLINOIS CENTRAL RAILROAD Company and its Parent

Contractor: Capitol Cement Company

Project Number:

Project Description: Road Reconstruction: Center Street - 171st Street to 159th Street (In the City of Harvey)Center Street 171st Street to 159th Street DOT #289 649M,Milepost 20.90 & DOT #289 650G,Milepost 21.60 {Freight 4(1-5 mph)}

Total Cost of Construction: \$9,487,711

Cost Within 50ft: \$50,000

Project Owner:

Commission: 10%

Item	Quote 1
Limits (000s)	\$5,000 / \$10,000
Total Premium	\$5,000
State Surcharge	\$0.00

The above quote is subject to the following condition(s):

- 1) Contractor must have a liability per occurrence limit, primary GL plus excess, equal to the RRP occurrence limit accepted.
- 2) Terrorism coverage is included in this quote and cannot be rejected. Please see Terrorism Disclosure notice below.
- 3) A change in the total cost of construction may result in a change in the rate and the premium shown.

Forms that apply to this quote include but are not limited to:

IL T4 14	Cap On Losses From Certified Acts Of Terrorism
CG 00 35	Coverage Form
CG T0 05	Declarations
CG T4 78	Exclusion - Asbestos
CG D0 76	Exclusion - Lead
IL 00 21	Exclusion - Nuclear Energy
CG D3 58	Exclusion - Silica
CG 00 64	Exclusion - War Liability
IL T3 68	Federal Terrorism Risk Insurance Act Disclosure

Applicable state amendatory endorsement

Consult Policy for Actual Terms and Conditions

Thank you for considering Travelers Construction as a market for this coverage.

Very truly yours,

Michele Thompson Settles

Terrorism Risk Insurance Act Disclosure

The federal Terrorism Risk Insurance Act of 2002 as amended ("TRIA") establishes a program under which the Federal Government may partially reimburse "Insured Losses" (as defined in TRIA) caused by "Acts Of Terrorism" (as defined in TRIA). "Act Of Terrorism" is defined in Section 102(1) of TRIA to mean any act that is certified by the Secretary of the Treasury – in consultation with the Secretary of Homeland Security and the Attorney General of the United States – to be an act of terrorism; to be a violent act or an act that is dangerous to human life, property, or infrastructure; to have resulted in damage within the United States, or outside the United States in the case of certain air carriers or vessels or the premises of a United States Mission; and to have been committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.

The Federal Government's share of compensation for such Insured Losses is established by TRIA and is a percentage of the amount of such Insured Losses in excess of each Insurer's "Insurer Deductible" (as defined in TRIA), subject to the "Program Trigger" (as defined in TRIA). Through 2020, that percentage is established by TRIA as follows:

- 85% with respect to such Insured Losses occurring in calendar year 2015.
- 84% with respect to such Insured Losses occurring in calendar year 2016.
- 83% with respect to such Insured Losses occurring in calendar year 2017.
- 82% with respect to such Insured Losses occurring in calendar year 2018.
- 81% with respect to such Insured Losses occurring in calendar year 2019.
- 80% with respect to such Insured Losses occurring in calendar year 2020.

In no event, however, will the Federal Government be required to pay any portion of the amount of such Insured Losses occurring in a calendar year that in the aggregate exceeds \$100 billion, nor will any Insurer be required to pay any portion of such amount provided that such Insurer has met its Insurer Deductible. Therefore, if such Insured Losses occurring in a calendar year exceed \$100 billion in the aggregate, the amount of any payments by the Federal Government and any coverage provided by this policy for losses caused by Acts Of Terrorism may be reduced.

For coverages other than Workers Compensation and Employers Liability that apply to such Insured Losses, the charge for such Insured Losses is included in the premium for such coverage and is listed below. Any charges for Insured Losses regardless of coverage type, do not include any charge for the portion of such Insured Losses covered by the Federal Government under TRIA.

Coverage	Included Charge For Insured Losses
All commercial liability coverages subject to TRIA	1% of the applicable premium

Important Notice Regarding Compensation Disclosure

For information about how Travelers compensates independent agents, brokers, or other insurance producers, please visit this website:

http://www.travelers.com/w3c/legal/Producer_Compensation_Disclosure.html

If you prefer, you can call the following toll-free number: 1-866-904-8348. Or you can write to us at Travelers, Enterprise Development, One Tower Square, Hartford, CT 06183.

PROPOSAL DISCLOSURE:

THE FOREGOING OUTLINES THE COVERAGE FORMS, LIMITS OF INSURANCE, POLICY ENDORSEMENTS AND OTHER TERMS AND CONDITIONS PROVIDED IN THE PROPOSAL/QUOTE. ANY POLICY COVERAGES, LIMITS OF INSURANCE, POLICY ENDORSEMENTS, COVERAGES SPECIFICATIONS, OR OTHER TERMS AND CONDITIONS THAT YOU HAVE REQUESTED THAT ARE NOT INCLUDED IN THIS PROPOSAL/QUOTE HAVE NOT BEEN AGREED TO BY TRAVELERS. PLEASE REVIEW THIS PROPOSAL/QUOTE CAREFULLY AND IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT YOUR TRAVELERS REPRESENTATIVE.

COVERAGE DISCLAIMER:

THIS PROPOSAL/QUOTE DOES NOT AMEND, OR OTHERWISE AFFECT, THE PROVISIONS OF COVERAGE OF ANY RESULTING INSURANCE POLICY ISSUED BY TRAVELERS. IT IS NOT A REPRESENTATION THAT COVERAGE DOES OR DOES NOT EXIST FOR ANY PARTICULAR CLAIM OR LOSS UNDER ANY SUCH POLICY. COVERAGE DEPENDS ON THE APPLICABLE PROVISIONS OF THE ACTUAL POLICY ISSUED, THE FACTS AND CIRCUMSTANCES INVOLVED IN THE CLAIM OR LOSS AND ANY APPLICABLE LAW.

**SPECIAL PROVISION
FOR
RAILROAD PROTECTIVE LIABILITY INSURANCE**

The contractor will be required to carry Railroad Protective Liability and Property Damage Liability Insurance in accordance with Article 107.11 of the Standard Specifications. The limits under this Special Provision are to be not less than \$5,000,000.00 combined single limit per occurrence for bodily injury liability and property damage liability with an aggregate limit of \$10,000,000.00 over the life of the policy.

NAMED INSURED

**NUMBER AND SPEED
OF FREIGHT AND/OR PASSENGER TRAINS**

Illinois Central Railroad Company and its Parents
17641 South Ashland Avenue
Homewood, IL 60430

DOT #289 649M, Milepost 20.90
Freight 4 (1-5 mph)

For information contact:

DOT #289 650G, Milepost 21.60
Freight 4 (1-5 mph)

Mr. Edd Baswell
Manager of Track Design
CN/ Illinois Central Railroad Company
17641 South Ashland Avenue
Homewood, IL 60430
Edd.Baswell@cn.ca

Mr. Paul Chojenski
Manager of Public Works
CN/ Illinois Central Railroad Company
17641 South Ashland Avenue
Homewood, IL 60430
(708) 332-3557 (office)
Paul.Chojenski@cn.ca

Basis of Payment - The costs for providing insurance, as noted above, will be paid for as the contract unit price per lump sum for RAILROAD PROTECTIVE LIABILITY INSURANCE.

Approval of Insurance - Within fourteen (14) calendar days of notice of award, The **ORIGINAL AND ONE CERTIFIED** copy of each required policy shall be submitted for approval, when applicable.

The Contractor will be advised when the Department has received approval of the insurance from the railroad(s). Before any work begins on railroad right-of-way, the Contractor shall submit to the Resident Engineer evidence that the required Railroad Protective Liability Insurance has been approved by the railroads. The Contractor shall also provide the Resident Engineer with the expiration date of each required policy.

**SPECIAL PROVISION
FOR
INDEMNIFICATION FOR COOK COUNTY**

The Contractor shall indemnify the County of Cook and its commissioners, officials, employees, agents and representatives, and their respective heirs, successors and assigns (the "County") pursuant to the language provided under Section 107.26 of the Standard Specifications for Road and Bridge Construction.

107.26 Indemnification. To the fullest extent permitted by law, the Contractor shall be responsible for any and all injuries to persons or damages to property due to the activities of the Contractor, subcontractors, licensees, invitees, suppliers, agents, or employees arising out of, incident to, or resulting from performance of the contract, or any activity in connection therewith. The Contractor shall indemnify and hold harmless the County of Cook and its commissioners, officials, employees, agents and representatives, and their respective heirs, successors and assigns, from any and all claims, lawsuits, actions, costs, and fees (including reasonable attorney fees and expenses) of every nature or description, arising from, growing out of, or connected with the work, or on account of or in consequence of any neglect in safeguarding the work or on account of or in consequence of using unacceptable materials in constructing the work or because of any act or omission, neglect, or misconduct of the Contractor, its officers, employees, agents, its subcontractor, or subcontractors licensees, invitees, or anyone directly or indirectly employed by them, and/or anyone for whose acts they may be liable or because of any claims or amount recovered by reason of any infringement of any patent, trademark, or copyright or by reason of the violation of any law, ordinance, order or decree. This obligation is binding on the Contractor without regard to whether or not such claim, damage, loss, or expense is caused in part by the act, omission, or negligence of the County and its commissioners, officials, employees, agents and representatives, and their respective heirs, successors and assigns.

In claims against the County by an employee of the Contractor, its officers, employees, agents, its subcontractor, or subcontractors licensees, invitees, or anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification herein shall not be limited by a limitation on amount or type of damages payable by or for the Contractor or subcontractor under any employee benefits act including but not limited to the Worker's Compensation Act.

In the event any such claim, lawsuit, or action is asserted, any such money due the Contractor under and by virtue of the contract as shall be deemed necessary by the County for the payment thereof, may be retained by the County for said purpose, or in case no money or insufficient money is due to satisfy such claim, lawsuit, or action, the Contractor's Surety shall remain liable for any payment therefore until any such lawsuit, action, or claim has been settled or has been fully judicially determined and satisfied.

No inspection by the County, its employees or agents shall be deemed a waiver by the County of full compliance with the requirements of the contract. This indemnification shall not be limited by any Performance Bond or insurance protection required of the Contractor in the contract.

**SPECIAL PROVISION
FOR
INDEMNIFICATION FOR LOCALS**

Indemnification under Section 107.26 of the Standard Specifications for Road and Bridge Construction is hereby extended to provide same for the following entities, their officers, employees and agents in the same manner as is applicable to Cook County.

- City of Harvey
- Illinois Central Railroad Company and its Parents

**SPECIAL PROVISION
FOR
JOINT VENTURES**

Contractors submitting a bid as a joint venture shall comply with the following procedures:

- 1) Contractors may combine their available bidding capacity for a single contract to bid as a joint venture.
- 2) The joint venture shall be indicated by the filing of a **Joint Venture Minimum Declaration of Work** for each of the contracts for which joint venture approval is sought. It identifies the managing partner and indicated the kind and the percentage of work to be performed by each joint venture partner with its own workforce and resources other than work reserved to meet any disadvantage business goal advertised in the contract. The form indicated the joint venture agreement shall be included in the bid. In addition, each joint venture partner firm shall submit an **Affidavit of Availability**. **The Joint Venture Minimum Declaration of Work and all Affidavits of Availability must be included in the bid.** The proposed joint venture shall not be approved if the establishment of a joint venture would unduly restrict competition. A determination that a proposed venture would unduly restrict competition is limited to any of the following reasons:
 - a) That the proposed joint venture would consist of more than three (3) qualified contractors.
 - b) That the **Joint Venture Minimum Declaration of Work** indicated that any one of the proposed joint ventures partners will perform less than ten percent of the non-disadvantage business work with its own workforce and resources.
 - c) That for letting items estimates by the Department to be bid at less than \$1,000,000.00 more than one of the proposed joint venture partners has the individual qualification ratings and bid the item without the approval of the venture. This determination shall not apply to joint ventures between firms having fifty-one percent or more common controlling ownership or on items where the estimated quantity of asphalt exceeds 10,000 tons or concrete exceeds 5,000 cubic yards. Each proposed joint venture shall submit, with the bid, a **Joint Venture Certificate of Explanation and Justification** for each of the contracts estimated at less than \$1,000,000.00 for which joint venture approval is sought. The form indicated the circumstances which apply to the joint venture. That is there fifty-one percent (51%) or more common controlling ownership, or does one or more parties to the joint venture not have the financial capacity, work capacity or work categories to complete the project. **The Joint Venture Certificate of Explanation must be included in the bid.**
- 3) Contractors whose financial ratings are based upon unaudited financial statements will not be permitted to joint venture with each other to bid contracts which are estimated to exceed \$350,000.00. However, such contractors may be permitted to joint venture with contractors who have a financial rating based upon an audited statement to bid contracts estimated to exceed \$350,000.00.
- 4) If a joint venture work rating is limited by its maximum financial rating, the full value of the computed work rating will be used in analyzing the joint venture approval request. However, the combined maximum work rating in any category shall not exceed the combined maximum financial rating of the joint venture.

- 5) If an approved joint venture is awarded a contract, the kind and percentage of work indicated on the ***Joint Venture Minimum Declaration of Work*** may be amended as many times as necessary by the contractor provided that each partner of the approved joint venture performs at least ten percent of the nondisadvantaged work with its own workforce and resources.

Copies of all required Joint Venture Forms are attached.

Please note that signed and notarized originals of all required Joint Venture Forms mentioned above **must be included in the bid.** This includes ***Affidavits of Availability*** for all parties to the joint venture.

JOINT VENTURE FORMS

Qualified contractors wishing to combine bidding capacity and bid items as joint ventures must submit the appropriate properly completed forms and include them in their bid. The required joint venture forms include: (1) the ORIGINAL *Affidavit of Availability* (BC 57); (2) the ORIGINAL *Joint Venture Minimum Declaration of Work*; and (3) the ORIGINAL *Joint Venture Certificate of Explanation and Justification*.

Firm #3 _____

- 4) Fifty-one percent (51%) common controlling ownership between firms.

Firm #1 _____ Firm #2 _____ Firm #3 _____

has attached statement indicating the relationship of the firms.

- 5) Estimated quantity of asphalt for this item exceeds 10,000 tons.
- 6) Estimated quantity of concrete exceeds 5,000 cubic yards.
- 7) Estimated costs of project are less than \$1,000,000.

I/WE being duly sworn do hereby declare the explanation and justification to be a true and correct statement.

I, WE being duly sworn, do hereby declare the explanation and justification to be a true and correct statement.

Firm #1

Name _____ Title _____
 (Print)

Signature (Proprietor, Partner, Officer or Director)

Subscribed and sworn to before me this _____ day of _____, 20 _____. (Notary Seal)

My commission expires on _____
 Notary Public

Firm #2

Name _____ Title _____
 (Print)

Signature (Proprietor, Partner, Officer or Director)

Subscribed and sworn to before me this _____ day of _____, 20 _____. (Notary Seal)

My commission expires on _____
 Notary Public

Firm #3

Name _____ Title _____
 (Print)

Signature (Proprietor, Partner, Officer or Director)

Subscribed and sworn to before me this _____ day of _____, 20 _____. (Notary Seal)

My commission expires on _____
 Notary Public

This form must be submitted with the bid.



**COOK COUNTY DEPARTMENT OF
TRANSPORTATION AND HIGHWAYS
Joint Venture Minimum Declaration of Work**

Bid Proposal Submission Date: _____
 Item No.: _____
 Joint Venture Name: _____
 Managing Party: _____

Firm #1

Name: _____

Address: _____

Firm #2

Name: _____

Address: _____

Firm #3

Name: _____

Address: _____

Instructions:

Indicate the percentage of work to be performed by each firm with their own forces.

	Firm #1	Firm #2	Firm #3
Earthwork	_____	_____	_____
Portland Cement Concrete Paving	_____	_____	_____
Bituminous Plant Mix	_____	_____	_____
Bituminous Aggregate Mixtures	_____	_____	_____
Miscellaneous Bituminous Paving	_____	_____	_____
Cleaning and Sealing Cracks & Joints	_____	_____	_____
Soil Stabilization and Modification	_____	_____	_____
Aggregate Bases and Surfaces	_____	_____	_____
Highway, Railroad & Waterway Structures	_____	_____	_____
Drainage	_____	_____	_____
Electrical	_____	_____	_____
Cover & Seal Coats	_____	_____	_____
Slurry Applications	_____	_____	_____
Miscellaneous Concrete Construction	_____	_____	_____
Landscaping	_____	_____	_____
Seeding & Sodding	_____	_____	_____
Vegetation Spraying	_____	_____	_____
Tree Trimming & Selective Tree Removal	_____	_____	_____

Fencing	_____	_____	_____
Guardrail	_____	_____	_____
Grouting	_____	_____	_____
Painting	_____	_____	_____
Signing	_____	_____	_____
Paint Pavement Marking	_____	_____	_____
Thermoplastic Pavement Marking	_____	_____	_____
Epoxy Pavement Marking	_____	_____	_____
Installation of Raised Pavement Markers	_____	_____	_____
Pavement Texturing & Surface Removal	_____	_____	_____
Cold Milling, Planning & Rototilling	_____	_____	_____
Erection	_____	_____	_____
Demolition	_____	_____	_____
Other	_____	_____	_____

I, WE being duly sworn, do hereby declare the explanation and justification to be a true and correct statement.

Firm #1

Name _____ Title _____
(Print)

Signature (Proprietor, Partner, Officer or Director)

Subscribed and sworn to before me this _____ day of _____, 20 _____. (Notary Seal)

My commission expires on _____
Notary Public

Firm #2

Name _____ Title _____
(Print)

Signature (Proprietor, Partner, Officer or Director)

Subscribed and sworn to before me this _____ day of _____, 20 _____. (Notary Seal)

My commission expires on _____
Notary Public

Firm #3

Name _____ Title _____
(Print)

Signature (Proprietor, Partner, Officer or Director)

Subscribed and sworn to before me this _____ day of _____, 20 _____. (Notary Seal)

My commission expires on _____
Notary Public

This form must be submitted with the bid.

**SPECIAL PROVISION
FOR
PROPOSAL AGREEMENTS
ADDENDUM RECEIPT**

The receipt of the following addenda to the drawings and/or specification is acknowledged:

Addendum No. 1
Dated MAY 5, 2015

Addendum No. _____
Dated _____

Addendum No. _____
Dated _____

Addendum No. _____
Dated _____

Addendum No. _____
Dated _____

NOTE: These Addenda form a part of the Bidding and Contract Documents and modify the Original Documents for this Contract. Receipt of these Addenda shall be acknowledged above. Failure to do so may subject the Bidder to disqualification.



OFFICE OF THE CHIEF PROCUREMENT OFFICER

SHANNON E. ANDREWS

CHIEF PROCUREMENT OFFICER

118 North Clark Street, Room 1018 • Chicago, Illinois 60602 • (312) 603-5370

TONI PRECKWINKLE

PRESIDENT
Cook County Board
of Commissioners

RICHARD R. BOYKIN
1st District

ROBERT STEELE
2nd District

JERRY BUTLER
3rd District

STANLEY MOORE
4th District

DEBORAH SIMS
5th District

JOAN PATRICIA MURPHY
6th District

JESUS G. GARCIA
7th District

LUIS ARROYO JR.
8th District

PETER N. SILVESTRI
9th District

BRIDGET GAINER
10th District

JOHN P. DALEY
11th District

JOHN A. FRITCHEY
12th District

LARRY SUFFREDIN
13th District

GREGG GOSLIN
14th District

TIMOTHY O. SCHNEIDER
15th District

JEFFREY R. TOBOLSKI
16th District

ELIZABETH ANN DOODY GORMAN
17th District

ADDENDUM NO. 1

May 5, 2015

**CENTER STREET
171st Street to 159th Street
for**

Cook County Department of Transportation and Highways

**Contract No. 1555-14616
Section No. 02-W5208-02-RP**

To: Interested Vendors of Record

A. General:

This addendum revises the above-referenced solicitation. This addendum is issued prior to execution of the contract, forms a part of contract documents and modifies previously issued documents. Insofar as previously issued contract documents are inconsistent with modifications indicated by this addendum, modifications indicated by this addendum shall govern. Where any part of the contract documents are modified by this addendum, all unaltered provisions shall remain in effect.

B. Acknowledgement:

Acknowledge receipt of this addendum in the space provided on the bid form on the proposal pages. Failure to do so will subject bidder to disqualification.

C. Attachments:

The addendum includes attachments described in this addendum. One copy of each attachment is issued with this addendum, unless otherwise indicated. Insert the attachment(s) in the solicitation document in the correct sequence and location. Revise your response to this solicitation to reflect the modifications per this addendum, as applicable.

- Attachment 1: Revised Cover Page
- Attachment 2: Pre-Bid Meeting Sign In Sheet

D. Changes:

Change #1 – Replace Cover Page of the solicitation package with Attachment 1, Revised Cover Page. Additional copy of proposal added. Please submit 1 original and 2 copies of the proposal.

E. Responses to Questions

1. **Question:** Could you please clarify if the Railroad flagging cost is reimbursable to the contractor?

Response: All legitimate railroad flagging costs will be invoiced directly to the County by the Railroad. Contractor will contact the Railroad for flaggers and the Railroad will invoice the County directly.

ORIGINATED BY:
Danuta Rusin
Senior Contract Negotiator

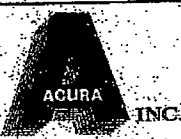
SHANNON E. ANDREWS
CHIEF PROCUREMENT OFFICER

Pre-Bid Mtg. Sign-In Sheet - April 28, 2015
69 West Washington, Suite 2260 at 11:00 AM
Contract #1555-14616 - Center Street

Attendee Name: _____
 Company Name: _____

 Company Address: _____

 Telephone: _____
 Fax: _____
 E-Mail: _____
 Please print clearly



Phone: (630) 766-9979
 FAX: (630) 766-6826
 Cell: (630) 327-9302
 lahmed@acurainc.com


IMTIAZ AHMED
 Estimator/Senior Project Manager

556 County Line Road
 Bensenville, Illinois 60108-3201 MBE/DBE Certified

Attendee Name: _____
 Company Name: _____

 Company Address: _____

 Telephone: _____
 Fax: _____
 E-Mail: _____
 Please print clearly



13769 MAIN STREET
 LEMONT, ILLINOIS 60439

(630) 257-5600
 Fax: (630) 257-6788
 Call: (630) 768-7824
 email: markb@k-five.net
 www.k-five.net

MARK BANASZAK
 Safety Compliance Officer

Attendee Name: _____
 Company Name: _____

 Company Address: _____

 Telephone: _____
 E-Mail: _____
 Please print clearly



Josiah Martin
 Project Engineer

p: 773-444-1812
 f: 773-693-0064


jmartin@fhpaschen.com
 www.fhpaschen.com

F.H. Paschen, S.N. Nielson | General Contractors
 6515 N. East River Road | Chicago, IL 60668

Attendee Name: _____
 Company Name: _____

 Company Address: _____

 Telephone: _____
 Fax: _____
 E-Mail: _____
 Please print clearly



Aaron Henneberg
 Lead Estimator

The Lane Construction Corporation
 611 W. Jefferson St., Suite 201
 Shorewood, IL 60404

o 815.846.4466
 c 309.264.0049
 F 815.846.2145
 ABHenneberg@LaneConstruct.com

LaneConstruct.com

**SPECIAL PROVISION
FOR
COMBINATION BIDDING PROCESS**

All references to Sections or Articles in this specification shall be construed to mean a specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Cook County Department of Transportation and Highways.

Combination Bids. The projects listed below with their individual WORKING DAYS and CALENDAR DAYS shall be let in combination:

PROJECT	SECTION	WORKING DAYS	CALENDAR DAYS
---------	---------	--------------	---------------

A Combination Bid is a total bid received on 2 or more proposals. No Combination Bids other than those specifically set up by the Department will be considered. Separate proposal forms will be issued for each project in the combination so bids may be submitted on the combination as well as on separate units of the combination. The department reserves the right to make the awards on combination bids or separate bids to the best advantage of the Department.

If a Combination Bid is submitted on 2 or more proposals, separate proposals on each individual contract shall also be submitted, and unless separate proposals are submitted, the Combination Bid will not be considered. If the bidder desires to submit a Combination bid, the bidder shall state, in the place provided in the proposal form, the amount of the Combination Bid for the entire combination.

If a Combination Bid is submitted on any stipulated combination, and errors are found to exist in computing the gross sum bid on any one or more of the individual proposals, corrections shall be made, by the Department and the amount of the Combination Bid shall be corrected so that it will be in the same proportion to the sum of the corrected gross sum bid as the Combination Bid submitted was to the sum of the gross bid submitted.

The following provisions shall govern combination bidding:

- 1) A Combination Bid which is submitted for 2 or more proposals and awarded on that basis shall have the bid prorated against each proposal in proportion to the bid submitted for each proposal.
- 2) Separate contracts shall be executed for each proposal included in the combination.
- 3) The proposal guaranties which accompany the individual proposals making up the combination will be considered as also covering the Combination Bid.
- 4) The completion date for all contracts awarded on a Combination Bid shall be the latest completion date designated for any one or more of the contracts included in the combination, unless otherwise provided in the contract.

- 5) Contracts awarded in combination for the projects above shall have the WORKING DAYS revised to _____ WORKING DAYS, and the CALENDAR DAYS revised to _____ CALENDAR DAYS. The "Daily deduction" rate in the Traffic Control Deficiency Deduction Special Provision shall be based on the REVISED CALENDAR DAYS stated above.
- 6) The Contractor, at his option, may start one project or all projects. WORKING DAYS then shall start as specified in Article 108.04 of the Standard Specifications for Road and Bridge Construction and shall continue from that day forward until all projects are completed.
- 7) An extension of time for any one or more contracts awarded on a Combination Bid shall automatically extend all contracts awarded on the combination.
- 8) In the event the Contractor fails to complete any one or all the contracts on the Combination Bid by the contract completion date plus any authorized extension, or the contract working days plus any authorized extension, the liquidated damages shall be determined from the schedule of deductions for each day of the overrun in the contract time in Article 108.09 in the Standard Specifications for Road and Bridge Construction, based on the Combination Bid total, and shall be computed on the combination and prorated against the 2 or more individual contracts based on the dollar value of each contract.
- 9) The Plans and Special Provisions for each separate contract shall be construed separately for all requirements, except as described in section 1 through 8 listed above.

**SPECIAL PROVISION
FOR
PROMPT PAY MECHANISMS (FEDERAL AID)**

Federal regulations found in 49 CFR Part 26.29 mandate the Cook County Department of Transportation and Highways to establish a contract clause to require contractors to pay subcontractors for satisfactory performance of their subcontracts within a specific number of days after receipt of each payment made to the contractor, and to require the prompt return of retainage withheld from subcontractors.

This Special Provision establishes the required Federal contract clause, and adopts a fifteen (15) day requirement for the purpose of compliance with the federal regulation regarding payments to subcontractors.

This contract is subject to the following payment obligations:

“As partial payments are made to the contractor in accordance with Article 109.07 of the Standard Specifications for Road and Bridge Construction, the contractor shall make corresponding partial payment within fifteen (15) calendar days to each subcontractor in proportion to the work satisfactorily completed by each subcontractor. The proportionate amount of partial payment due to each subcontractor shall be determined by the quantities measured or otherwise determined as eligible for payment by the Cook County Department of Transportation and Highways included in the partial payment to the contractor. Subcontractors shall be paid in full, including the return of any retainage previously withheld, within fifteen (15) calendar days after the subcontractor's work has been satisfactorily completed.”

This Special Provision does not create any rights in favor of any subcontractor against the County of Cook or authorize any cause of action against the County of Cook on account of any payment, nonpayment, delayed payment or interest claimed by application of this Prompt Payment Special Provision. The Cook County Department of Transportation and Highways will neither determine the reasonableness of any cause for delay of payment nor enforce any claim to payment, including interest. Moreover, the Cook County Department of Transportation and Highways will not approve any delay or postponement of the fifteen (15) day requirement. State law creates remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly, performed or material furnished. These remedies are lien against public funds set forth in Section 23© of the Mechanics Lien Act, 770 ILCS 60/23©, and a recovery on the contractors payment bond in accordance with the Public Construction Bond Act, 30 ILCS 550.

**SPECIAL PROVISION
FOR
CONTRACT CLAIMS**

All References to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Cook County Department of Transportation and Highways.

109.09 Contract Claims. Revise the second sentence of subparagraph (a) of Article 109.09 to read:

"All claims shall be submitted to the Engineer."

Revise subparagraph (e) of this Article to read:

"Procedure. The department provides three administrative levels for claims review:

Level I	Resident Engineer
Level II	Bureau Chief, Construction Bureau
Level III	Superintendent of Transportation and Highways

All Claims shall first be submitted at Level I. This Engineer shall consider all information submitted with the claim within 90 days after receipt. Claims not conforming to this Article will be returned without consideration. The Resident Engineer may schedule a claim presentation meeting if in the Resident Engineer's judgment such a meeting would aid in resolution of the claim, otherwise a decision will be based on the claim documentation submitted. If a decision is not rendered within 90 days, or if the Contractor disputes the decision, an appeal to Level II shall be made by the Contractor. An appeal to Level II shall be made by the Contractor in writing to the Resident Engineer within 45 days after the date of the Level I decision, and shall include two (2) additional copies of the claim and supporting documentation. Review of the claim at Level II shall be conducted as a full evaluation of the claim. A claim presentation meeting may be schedule if the Bureau Chief, Construction Bureau determines that such a meeting would aid in the resolution of the claim, otherwise a decision will be made on the claim documentation submitted. If a Level II decision is not rendered within 90 days after receipt of the written appeal, or if the Contractor disputes the decision, an appeal at Level III shall be made in writing to the Bureau Chief, Construction Bureau, within 45 days of the date of the Level II decision. Review of the claim at Level III shall be conducted as a full evaluation of the claim. A claim presentation meeting may be scheduled if the Superintendent of Transportation and Highways determines that such a meeting would aid in resolution of the claim, other a decision will be based on the claim documentation submitted. A Level III final decision will be rendered within 90 days of receipt for appeal.

SPECIAL PROVISION
FOR
PRE-CONSTRUCTION CONFERENCE

After the award of the contract and before construction is started, a conference shall be held at a time and place to be designated by the County.

The purpose of the conference shall be to co-ordinate the work to be performed and adopt a schedule of operations.

The conference will be attended by representatives of the participating agencies together with the public and private agencies whose facilities are involved in the construction of the project.

**SPECIAL PROVISION
FOR
MOBILIZATION**

This Special Provision amends the provisions of Article 671 of the Standard Specifications for Road and Bridge Construction and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

671 Mobilization. Revise the Article to read:

671.01 Description. This work shall consist of preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of offices, buildings, and other facilities necessary for work on the project; and for all other work or operations which must be performed or costs incurred when beginning work on the project.

671.02 Basis of Payment. Upon execution of the contract and a written letter from the Contractor requesting mobilization, three percent of the total contract bid will be paid as the original mobilization payment. The three percent will be recovered according to the following schedule.

- 1) When 10 percent or more of the original contract amount is earned, 1/5 of the original mobilization payment will be deducted from the current pay voucher.
- 2) When 20 percent or more of the original contract amount is earned, a cumulative 2/5 of the original mobilization payment will be deducted from the current pay voucher.
- 3) When 30 percent or more of the original contract amount is earned, a cumulative 3/5 of the original mobilization payment will be deducted from the current pay voucher.
- 4) When 40 percent or more of the original contract amount is earned, a cumulative 4/5 of the original mobilization payment will be deducted from the current pay voucher.
- 5) When 50 percent or more of the original contract amount is earned, the remaining balance of the original mobilization payment will be deducted from the current pay voucher.

**SPECIAL PROVISION
FOR
CONSTRUCTION AIR QUALITY
DIESEL VEHICLE EMISSIONS CONTROL
(GREEN CONSTRUCTION ORDINANCE)**

Description. Diesel Vehicle Emissions Control. The reduction of construction air emissions shall be accomplished by using cleaner burning diesel fuel. All equipment on the jobsite as defined by section 30-952 (a) of the Cook County Green Construction Ordinance (ORDINANCE) shall be required to use Ultra Low Sulfur Diesel fuel (ULSD) exclusively (15 ppm sulfur content or less). Equipment shall include any "rental" equipment. In addition, the Contractor is required to comply with section 30-954 -3(c) related to engine idling.

Diesel powered equipment in non-compliance will not be allowed to be used on the project site, and is also subject to adjudication in accordance with the attached Ordinance. Liquidated damages as per section 30-955 (c) of the ORDINANCE will not apply until such time as the level 2 or 3 controls are phased in.

The Contractor is required to submit a list of equipment to be used on the project to the Cook County Department of Environmental Control (DEPARTMENT), as stated in section 30-954(a) and (b) of the ORDINANCE, and shall copy the Cook County Department of Transportation and Highways - Construction Bureau on that submittal. The 30 day submittal stipulation cited in section 30-954(a) of the ORDINANCE will be enforced. The Contractor may not begin work on the project unless acknowledgement by the DEPARTMENT of their receipt of the list is provided to the Construction Bureau of the Cook County Department of Transportation and Highways. At this time, the list will be used for statistical data only. The Contractor is not required to meet portions of the ordinance related to level 2 or 3 controls as outlined in the ORDINANCE until such time as stipulated in the ordinance. If additional equipment is to be used on a project that was not on the original equipment list submitted to the DEPARTMENT, the Contractor must follow the same procedure as outlined above. Short term usage of equipment shall be as stated in section 30-952(3)(c)(1) of the ORDINANCE.

The Contractor shall submit copies of monthly summary reports to the DEPARTMENT and include certified copies of the ULSD fuel delivery slips for diesel fuel delivered to the jobsite for the reporting time period, noting the quantity of diesel fuel used.

The ORDINANCE is attached and made a part of this contract. Contact information for the Department of Environmental Control is given below.

Basis of Payment. Any costs associated with compliance with this special provision and the Green Construction Ordinance shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

Cook County Department of Environmental Control
69 West Washington Street Room 1900
Chicago, IL 60602
Re: Cook County Green Construction Ordinance
Phone: 312-603-8200

09-0-36

ORDINANCE

Sponsored by

THE HONORABLE TODD H. STROGER, PRESIDENT

AND ROBERTO MALDONADO, JOAN PATRICIA MURPHY AND PETER N. SILVESTRI

COUNTY COMMISSIONERS

Co-Sponsored by

THE HONORABLE JOHN P. DALEY, ELIZABETH "LIZ" DOODY GORMAN,

JOSEPH MARIO MORENO, DEBORAH SIMS, ROBERT B. STEELE

AND LARRY SUFFREDIN, COUNTY COMMISSIONERS

COOK COUNTY GREEN CONSTRUCTION ORDINANCE

BE IT ORDAINED, by the Cook County Board of Commissioners that Chapter 30 Environment, Article IX Green Construction, Sections 30-950 through 30-955 of the Cook County Code is hereby enacted as follows:

ARTICLE IX. GREEN CONSTRUCTION

Sec. 30-950. Board of Commissioners findings.

- a) Diesel exhaust particle pollution poses a clear and present health risk to the people of Cook County. The United States Environmental Protection Agency has classified diesel exhaust as a likely human carcinogen, and has identified diesel particulate matter and diesel exhaust organic gases as toxic air pollutants. Diesel exhaust is also a prime contributor to airborne fine particle pollution that is linked to premature death and other serious cardiovascular and pulmonary problems such as heart attacks, abnormal heart rhythms, atherosclerosis, stroke, asthma attacks, permanent respiratory damage and retardation of lung growth in children.
- b) Cook County is a USEPA designated non-attainment area for fine particulate matter pollution.
- c) The health impacts from diesel emissions particularly affect children, the elderly, and people with weakened immune systems.
- d) Particularly high concentrations of diesel emissions often occur in heavily traveled transportation corridors, intermodal yards, bus depots, and construction sites; these diesel "hot spots" often are found in densely populated, urban areas, disproportionately impacting ethnic minorities and people of lower economic status.

- e) Diesel engine crankcases also are a source of emissions that can seep into the cabin and expose vehicle drivers and passengers to harmful diesel emissions.
- f) Diesel exhaust also contains black carbon emissions, which contribute to global climate change.
- g) Reduction of diesel emissions can help address these human health and environmental problems.
- h) The United States Environmental Protection Agency has enacted requirements over the past few years requiring the substantial reduction of emissions from new diesel engines in both heavy duty highway vehicles and land-based non-road equipment. However, these regulations do not apply to any of the over 11 million existing diesel engines in the United States, most of which emit substantially more pollution and often remain in service for 10 to 30 years, depending on the type of engine and equipment.
- i) Practical, cost-effective measures to substantially reduce diesel particulate emissions are available today, and can be applied to many existing diesel engines. The same technology that limits diesel pollution from new diesel engines can be retrofitted onto existing engines or applied in new replacement engines to reduce diesel emissions by 85% or better.
- j) Therefore, the purpose of this ordinance is to minimize the public health risks from exposure to diesel particulate emissions as expeditiously as practicable.

Sec. 30-951. Definitions.

CARB means the California Air Resources Board.

County, as used in this chapter (with the exception of the use of the words to describe or identify the Government or Board of Commissioners thereof), means all of the territory in the County exclusive of the City of Chicago.

Department means the Cook County Department of Environmental Control.

Fleet means one or more diesel vehicles or mobile or stationary diesel engines owned or operated by the same person or group of related persons.

Heavy duty diesel vehicle means a motor vehicle with a gross vehicle weight rating of at least 8,500 pounds that is powered by a diesel engine.

Level 1 Control means a Verified Diesel Emission Control Device that achieves a particulate matter (PM) emission reduction of 25% or more from uncontrolled engine emission levels.

Level 2 Control means a Verified Diesel Emission Control Device that achieves a particulate matter (PM) emission reduction of 50% or more from uncontrolled engine emission levels.

Level 3 Control means a Verified Diesel Emission Control Device that achieves a particulate matter (PM) emission reduction of 85% or more from uncontrolled engine emission levels, or that reduces emissions to less than or equal to 0.01 grams of PM per brake horsepower-hour. Level 3 Control includes repowering or replacing the existing diesel engine with an engine meeting USE PA's 2007 Heavy-duty Highway Diesel

Standards (66 Fed. Reg. 5002), or in the case of a non-road engine, an engine meeting the USE PA's Tier 4 Nonroad Diesel Standards (69 Fed. Reg. 38958); Level 3 Control also includes new diesel engines meeting said emissions standards.

Motor vehicle means any self-propelled vehicle designed for transporting persons or property on a street or highway, including an on-road diesel vehicle.

Nonroad engine means an internal combustion engine (including the fuel system) that is not used in a motor vehicle or a vehicle used solely for competition, or that is not a stationary source, except that this term shall apply to internal combustion engines used to power generators, compressors or similar equipment used in any construction program or project.

Nonroad Vehicle means a vehicle or equipment that is powered by a nonroad engine, fifty horsepower and greater, and that is not a motor vehicle or a vehicle used solely for competition, which shall include, but not be limited to, excavators, backhoes, cranes, compressors, generators, bulldozers and similar equipment; non-road vehicles do not include locomotives or marine vessels.

Prime Contractor means any person or business entity that enters into a public works contract with Cook County.

Public Works Contract means a contract, budgeted at \$2,000,000 or more, with a County agency for a construction program or project bid by Cook County involving the construction, demolition, restoration, rehabilitation, repair, renovation, or abatement of any building, structure, tunnel, excavation, roadway, park or bridge; a contract with a County agency for the preparation for any construction program or project involving the construction, demolition, restoration, rehabilitation, repair, renovation, or abatement of any building, structure, tunnel, excavation, roadway, park or bridge; or a contract with a County agency for any final work involved in the completion of any construction program or project involving the construction, demolition, restoration, rehabilitation, repair, renovation, or abatement of any building, structure, tunnel, excavation, roadway, park or bridge.

Stationary Generators means a non-mobile machine that uses diesel fuel to produce electrical energy.

Subcontractor means any person or business entity that enters into a contract with a Prime Contractor as defined herein to perform work on a public works contract with Cook County.

Ultra low sulfur diesel fuel means diesel fuel that has a sulfur content of no more than fifteen parts per million.

US EPA means the United States Environmental Protection Agency.

Verified diesel emission control device means:

- a) an emission control device or strategy that has been verified to achieve a specified diesel PM reduction by US EPA or CARB; or
- b) replacement or repowering with an engine that is certified to specific PM emissions performance by USE PA or CARB.

Sec. 30-952. Emission reduction.

- a) Immediately after the effective date of this ordinance, any solicitation for a public works contract and any contract entered into as a result of such solicitation shall include a specification that all contractors in the performance of such contract shall use Ultra Low Sulfur Diesel fuel for diesel motor vehicles, nonroad vehicles, and stationary generators used in the performance of the contract.

- b) Beginning January 1, 2014, for Prime Contractors, and beginning January 1, 2016 for Subcontractors, any solicitation for a public works contract and any contract entered into as a result of such solicitation shall include a specification that a Prime Contractor and all Subcontractors in the performance of such contract shall not operate any heavy-duty diesel vehicle in the performance of a public works contract unless that vehicle has installed Level 3 Controls and unless such controls are properly maintained and operating (as provided by regulations promulgated pursuant to this act). Except that, upon provision by the Prime Contractor or Subcontractors to the agency of appropriate and sufficient documentary evidence:
 - (1) Subsection (b) shall not apply to any heavy-duty diesel vehicle on the construction site working three days or less over the life of the project.
 - (2) Subsection (b) shall not apply to any heavy-duty diesel vehicle with respect to which the Department makes a written finding that such vehicle cannot be retrofit with Level 3 Controls, in which case such fleet owner or operator shall install Level 2 Controls that are available and appropriate for such vehicle as determined by the Department. If the Department makes a written finding that any such vehicle cannot be retrofit with Level 2 controls, said vehicle shall be retrofit with Level 1 Controls that are available and appropriate for such vehicle as determined by the Department.
 - (3) Any heavy-duty diesel vehicle that has operational Level 2 Controls installed prior to the effective date of this act shall have an additional one year to meet the requirements of Subsection (b).

- c) Within two years after the effective date of this ordinance, any solicitation for a public works contract and any contract entered into as a result of such solicitation shall include a specification that all contractors in the performance of such contract shall not operate any diesel nonroad vehicle in the performance of a public works contract unless that vehicle has installed Level 2 Controls and unless such controls are properly maintained and operating (as provided by regulations promulgated pursuant to this act). Except that, upon provision by the contract or to the agency of appropriate and sufficient documentary evidence:
 - (1) Subsection (c) shall not apply to any diesel nonroad vehicle on the construction site working three days or less over the life of the project.
 - (2) Subsection (c) shall not apply to any diesel nonroad vehicle with respect to which the Department makes a written finding that such vehicle cannot be retrofit with Level 2 Controls, in which case such fleet owner or operator shall install Level 1 Controls that are available and appropriate for such vehicle as determined by the Department.

- (3) Any diesel nonroad vehicle that has operational Level 1 Controls installed prior to the effective date of this act shall have an additional one year to meet the requirements of Subsection (c).
- d) Beginning January 1, 2014, for Prime Contractors, and beginning January 1, 2016 for Subcontractors, any solicitation for a public works contract and any contract entered into as a result of such solicitation shall include a specification that a Prime Contractor and all Subcontractors in the performance of such contract shall not operate any diesel nonroad vehicle in the performance of a public works contract unless that vehicle has installed Level 3 Controls and unless such controls are properly maintained and operating (as provided by regulations promulgated pursuant to this act). Except that, upon provision by the Prime Contractor or Subcontractors to the agency of appropriate and sufficient documentary evidence:
- (1) Subsection (d) shall not apply to any diesel nonroad vehicle on the construction site working three days or less over the life of the project.
 - (2) Subsection (d) shall not apply to any diesel nonroad vehicle with respect to which the Department makes a written finding that such vehicle cannot be retrofit with Level 3 Controls, in which case such fleet owner or operator shall install Level 2 Controls that are available and appropriate for such vehicle as determined by the Department.
 - (3) Any diesel nonroad vehicle that has operational Level 2 Controls installed prior to the effective date of this act shall have an additional one year to meet the requirements of Subsection (d).

Sec. 30-953. Costs.

All costs associated with meeting these requirements are incidental to the overall contract. No additional time or monies will be granted to the Prime Contractor for compliance with these requirements and any associated regulations.

Sec. 30-954. Compliance.

- a) Thirty days before beginning work, the Prime Contractor shall submit to the Department for approval a list of all heavy-duty diesel vehicles, nonroad vehicles, and stationary generators to be used on the project. The list shall include the following:
- (1) Prime Contractor and Subcontractor name and address, plus contact person responsible for the vehicles or equipment.
 - (2) Equipment type, manufacturer, engine model year, engine certification (Tier rating), ECM calibration, horsepower, plate, serial number, and expected fuel usage and/or hours of operation.
 - (3) For the pollution control technology installed: technology type, serial number, make, model, manufacturer, EPA/CARB verification number/level, and installation date.

- b) If the Prime Contractor subsequently needs to bring on site equipment not on the list, the Prime Contractor shall submit the request in writing for prior approval. Additional equipment shall comply with all contract conditions.
- c) During periods of inactivity, idling of diesel on road motor vehicles and nonroad vehicles shall be minimized and shall not exceed the time allowed under state and local laws.
- d) Any public works contract shall provide for enforcement of the contract provisions required by Section 3 and penalties for noncompliance of such provisions.

Sec. 30-955. Enforcement.

- a) Any solicitation for a public works contract subject to the provisions of this section and any contract entered into as a result of such solicitation shall include provisions authorizing independent monitoring and inspection of the Prime Contractor and Subcontractor's compliance with the requirements of this section and requiring that the Prime Contractor and Subcontractor comply with this section. The Prime Contractor shall be liable for a fee of \$200 for the review of Prime Contractor and Subcontractor's compliance with the provisions of this section, and the County may withhold and deduct the fee from monies otherwise due the Prime Contractor.
- b) All vehicles and equipment to which these requirements are applicable will be subject to random inspections to ensure full compliance with these requirements. If any equipment is found to be non-compliant, the Prime Contractor, Subcontractor or Supplier must remove or retrofit this equipment or vehicle within 24 hours or be subject to liquidated damages pursuant to subdivision (c) of this section until that piece of equipment or vehicle is removed from Project.
- c) In the event of a violation of any provision of this section, except as provided, in subdivision (d) of this section, liquidated damages shall be assessed against the Prime Contractor in the amount of \$5,000 for each violation (with each piece of noncomplying equipment and each day of noncompliance being a separate violation, not to exceed a total of \$50,000 for any one piece of equipment). Said liquidated damages are not imposed as a penalty but as an estimate of the damages that the County will sustain from delay in completion of the work, as well as resultant damages to public health of its citizens, which damages by their nature are not capable of precise proof. The County may withhold and deduct from monies otherwise due the Prime Contractor the amount of liquidated damages due the County.
- d) No Prime Contractor or Subcontractor shall make a false statement or claim with respect to any matter material to compliance with the provisions of this section to the County. Any Prime Contractor or Subcontractor making such a false statement shall pay the County up to \$10,000 for each such statement as liquidated damages pursuant to the provisions of subdivision (c) of this section.
- e) Fees and liquidated damages paid to the County under this section shall be placed in the Cook County Environmental Management Fund.

Sec. 30-956. Regulations.

Within six months of the effective date of this act, the Department shall, after written notice and public hearing, promulgate regulations implementing the provisions of this act.

Effective date: This Ordinance shall take effect upon adoption.

Approved and adopted this 19th day of May 2009.

TODD H. STROGER, President

Cook County Board of Commissioners

Attest: DAVID ORR, County Clerk.

**SPECIAL PROVISION
FOR
PROCESSING OF EXTRA WORK PAYMENT REQUESTS**

Contractor's payment requests for Extra Work as identified in Article 104.02 of the Standard Specifications and the Special Provision for Contract Extra Work shall be processed in accordance with Article 109.04 of the Standard Specifications and the following additional procedures:

- 1) Contractor shall invoice the County for such Extra Work in accordance with the lump sum price, unit price, or force account as agreed to by the Engineer and Contractor.
- 2) Force account billing for equipment expense shall follow the applicable volume of the Equipment Watch Rental Rate Blue Book (Blue Book). Determination of equipment rates shall follow the IDOT Construction Memorandum 08-09. Also, a copy of the Blue Book calculation for each piece of equipment shall be included with the force account billing.
- 3) Contractor shall submit invoice for such Extra Work after the Extra Work has been fully completed by Contractor within sixty (60) days of completion of the work.
- 4) Within sixty (60) days after receipt of the invoice, the Engineer will review the Contractor's invoice and determine whether the invoice complies with the above. If the Engineer disapproves the invoice, the Engineer shall give Contractor notice of the reasons for such disapproval and the Contractor shall resubmit a corrected invoice for the Engineer's review. The County shall have an additional thirty (30) days to review and determine whether that the corrected invoice complies with the above.
- 5) Once the Engineer determines that the invoice complies with the above, the Engineer shall present a recommendation for change in plan for the specific items of extra work. The Superintendent shall execute a change order for the specific items of extra work and submit such change order to the Cook County Chief Procurement Officer, or where appropriate, to the County Board for approval.
- 6) Within thirty (30) days of the Board's or the Cook County Chief Procurement Officer's approval of the change order, payment shall be reflected under the specific items of extra work completed by the Contractor and the corresponding amount shall be deleted from the Contract Extra Work item.

**SPECIAL PROVISION
FOR
CONSTRUCTION LAYOUT STAKES AND SURVEY CONTROL POINTS**

This Special Provision amends the provisions of the Standard Specifications for Road and Bridge Construction and shall amend or supercede the provisions of Article 105.09 Survey Control Points.

105.09 Construction Layout Stakes. The Contractor will be required to furnish and place construction layout stakes for this project and will locate and reference the centerline of survey and all intersecting roads and streets and will establish bench marks along the line of the improvement outside construction limits. One bench mark will be established for use at each structure over twenty-foot span. Locating and referencing the centerline of survey shall consist of locating and referencing control points such as point of curvature, point of tangent, and sufficient points on tangent to provide a line of sight. Control points shall be identified in the field to the Engineer and the field notes shall be kept in the office of the Resident Engineer.

The Contractor shall provide field forces and set all additional stakes for this project, including interchanges, which are needed to establish offset stakes, reference points, slope stakes, pavement and curb line and grade, stakes for bridges, culverts, sewers and drainage structures, paved gutters, walls, monuments, fence, right-of-way lines, and any other horizontal or vertical controls, including supplementary bench marks, necessary to secure a correct layout of the work. Grading slope stakes shall be set at sufficient intervals (not to exceed 30 meters (100 feet)) to accurately outline the slopes. Stakes for line and grade of pavement and/or curb shall be set at sufficient station intervals (not to exceed 15 meters (50 feet)) to assure substantial conformance to plan line and grade. Staking of right-of-way lines shall consist of placing tall stakes, properly identified and readily discernible, at points of change in width or direction of the right-of-way and at points along the line so that at least two of the stakes can be seen distinctly from any point of the line. Right-of-way lines shall be staked at locations where construction is to be performed, prior to beginning construction. The Contractor will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract, or to determine the property line between properties.

The Contractor shall be responsible for having the finished work substantially conform to the lines, grades, elevations and dimensions called for in the plans. Any inspection or checking of the Contractor's layout by the County Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his responsibility to secure the proper dimensions, grades and elevations of the several parts of the work. The Contractor shall exercise care in the preservation of stakes and bench marks, and shall have them reset at his expense when any are damaged, lost, displaced or removed. The Contractor shall use competent personnel and suitable equipment for the layout work required. The Contractor shall not engage the services of any person or persons in the employ of the Cook County Department of Transportation and Highways for the performance of any of the work covered by this item.

It is emphasized that the establishment of the centerline of survey and benchmark circuit is critical to start up of construction and must be accomplished at the earliest possible time by the Contractor, properly documented and approved by the Resident Engineer as described below.

RESPONSIBILITY OF THE COUNTY

- a) The County will check both horizontal and vertical clearances at all grade separations.

- b) The County will make random checks of the Contractor's staking to determine if the work is in substantial conformance with the plans. Where the Contractor's work will tie into the work that is being or will be done by others, checks will be made to determine if the work is in conformance with the proposed overall grade and horizontal alignment.
- c) The County will set all stakes for utility adjustments and for building fences along the right-of-way line by parties other than the Contractor.
- d) Immediately after the Contractor has staked the drainage structures, County forces will check the staking, either visually or by instrument, to determine if the structures fit the waterways in horizontal alignment and vertical elevation. If it is necessary to redesign the drainage structure, the County will furnish a revised design and restake the structure.
- e) The County will make all measurements and take all cross-sections from which the various pay items are to be measured, such as, cross-sections for all borrow pits and channel change, additional measurements needed to determine the amount of special excavation and classified excavation and all measurements on which the depth of sub-bases, bases or portland cement concrete pavement are to be verified.
- f) Where the Contractor in setting construction stakes discovers discrepancies, the County will check to determine their nature and make whatever revisions are necessary in the plans, including the recross-sectioning of the area involved, and all additional restaking necessary.
- g) The County will check the Contractor's horizontal layout staking of all structures over 6 meters (20 feet) in span length. The County will accept the responsibility for the accuracy of these stakes, after the County completes their check, provided they are protected by the Contractor to the extent that no displacement occurs. The County will not be responsible for transferring the lines to the work.
- h) The County will accept responsibility for the accuracy of specific stakes that are covered by random instrument checks and recorded, provided no displacement occurs.
- i) It is not the responsibility of the County to check the correctness of the Contractor's stakes except as provided herein; however, any errors that are apparent shall be immediately called to the Contractor's attention and he shall be required to make the necessary correction before the stakes are used for construction purposes.
- j) On the jobs where the plan quantities for excavation are to be used as the final pay quantities, it will be necessary for the County to make sufficient checks to determine if the work has been completed in substantial conformance with the plan cross-sections.
- k) All measurements necessary to determine the final pay item quantities must be made by the County independently of the Contractor's station stakes and any bench marks established by the Contractor.
- l) If requested, the County will furnish a schedule showing the pavement profile grade elevations at intervals of 7.5 meters (25 feet) and/or provide computer services necessary to establish remote control for complex interchanges and/or structures.

RESPONSIBILITY OF THE CONTRACTOR

- a) The Contractor will locate and reference the centerline of all roads and streets except interchange ramps. The centerline of private entrances and short street intersection returns need not be located or referenced by the Contractor.
- b) Locating and referencing the centerline of survey will consist of locating and referencing the control points of the centerline such as PC's, PT's and as many POT's as are necessary to provide a line of sight.
- c) Bench marks will be established along the project outside of construction lines and at each major structure over 6 meters (20 feet) in span length, and intervals not exceeding 300 meters (1000 feet) horizontally and 6 meters (20 feet) vertically.
- d) Stakes set for A. and B. above shall be identified in the field to the Engineer and the field notes kept in the Resident Engineer's office for reference by him.
- e) The Contractor will set all other stakes necessary to establish limits and elevations of the work and shall define right-of-way for the project.
- f) The right-of-way shall be considered to be defined when stakes readily discernible, have been placed at points of change in width or direction of the right-of-way line and at points along the line so that at least two such right-of-way stakes can be seen from any point on the line. The Contractor should note that utility relocation may be dependent upon the proper delineation of right-of-way. Staking of the right-of-way must be accomplished at the earliest possible time.
- g) The Contractor will not be required to set additional stakes to locate a utility line or to determine the property line between properties.
- h) Field notes shall be kept in standard survey field note books and these books shall become the property of the Cook County Department of Transportation and Highways at the completion of the project.
- i) It is not considered the responsibility of the Contractor to make a detailed check of the accuracy of the plans, however, it is expected that the Contractor will advise the County promptly of known errors in the plans.

This item will be paid for at the contract lump sum price for CONSTRUCTION LAYOUT STAKES AND SURVEY CONTROL POINTS, which price shall be payment in full for all services, materials, labor, equipment, tools and incidentals to complete this item. Payment for this work shall be scheduled as follows;

25% of the bid price to be paid on the first pay estimate.

The remaining 75% of the bid price to be apportioned among the remaining pay estimates for the project.

All payments subject to retainage per the terms of this Contract.

**SPECIAL PROVISION
FOR
ENGINEER'S FIELD OFFICE**

This Special Provision amends the provisions of the Standard Specifications for Road and Bridge Construction and shall be construed to be a part thereof.

670.02 Engineer's Field Office Type A. Amend the following of Article 670.02, paragraph 6:

- (i) A minimum of two communication paths. The configuration shall include:
- (1) Internet Connection. A commercial grade internet service connection using telephone DSL, cable broadband or CDMA wireless technology with a MINIMUM bandwidth of 768 kbs. Additionally, an 802.11 g/N wireless router shall be provided, which will allow connection by the Engineer and up to four Department Staff. All costs related with equipment, installation, maintenance and service shall be included.

The Cook County Department of Transportation and Highways Engineering Computer Division contact person is as follows:

Mo Al-Khouja
Cook County Administration Building
Room 2400
69 West Washington Street
Chicago, Illinois 60602-3007
Work: (312) 603-1753
E-mail: M.Al-Khouja@cookcountyil.gov

- (2) Telephone Lines. Three separate telephone lines with voicemail shall be provided.
- (j) One digital copy machine with an automatic feed tray storing at least 30 sheets of paper, capable of reproducing prints as black lines on white paper up to 11 x 17 in. (280 x 432 mm) in size. Reproduction paper (8.5 x 11 in., 8.5 x 14 in., and 11 x 17 in.) shall be supplied to the satisfaction of the Engineer. Maintenance, activating agent and power source for the copy machine shall be included.

The digital copy machine shall also be capable of scanning to / printing from a computer and faxing over a telephone line. All cables, support equipment, software, installation and technical support required to make and keep the equipment operational for up to four computers shall be included.

The digital copy machine, software and support equipment must be compatible with the most current version of Windows operating system.

- (k) One electric hot and cold water dispenser. 5 gallon and 0.5 liter bottles of water shall be supplied to the satisfaction of the Resident Engineer.
- (l) One electric paper shredder capable of shredding a minimum 15 sheets at a time.

670.02 Engineer's Field Office Type A. Add the following to Article 670.02, paragraph 6:

- (m) Three (3) new cellular phones with the capacity for both cellular call and two (2) way communication (Nextel or equal), established voice mail, hands free adaptors, belt clips and car adaptors. These cellular phones will be for exclusive use by the Engineer and the Engineer's support staff. All of the cellular phones and services must be compatible with each other. Maintenance and operating costs of the cellular phones shall be included.
- (n) One digital camera with 8 megapixel minimum resolution, batteries to operate the camera, USB cable, minimum 8 GB memory card and digital camera case.
- (o) A new upright bagless vacuum cleaner with a hepa-filter or new shop vacuum with a Hepa-Filter and any miscellaneous cleaning supplies necessary for the Engineer to maintain the Field Office.

A weekly cleaning service for the field office shall be provided.

- (p) The following items are suggested office and field supplies. These items are subject to revision by the Resident Engineer, must be coordinated with the Resident Engineer prior to purchase, and shall be furnished to the satisfaction of the Resident Engineer prior to commencement and for the duration of the project.

If no pay item for Engineer's Field Office is included in the contract or used by the Department, the following items shall be incidental to the contract.

These items will not be returned at the conclusion of the contract.

OFFICE:

Adjustable Hole Punch, Black (3-Hole)	1 Each
Bankers Box, Legal size With String and Button Closure	4 Pack
Binder Clips, Large, 2", Box of 12 Each	2 Each
Binder Clips, Medium, 1 ¼", Box of 12 Each	2 Each
Binder Dividers, Avery index marker or equivalent	1 Each
Binder, Black 1" Capacity	1 Each
Binder, Black, 1-1/2" Capacity	2 Each
Binder, Black, 3" Capacity	1 Each
Calendar, At-A-Glance 3-Month Wall or equivalent	1 Each
Calendar, At-A-Glance Compact Desk Calendar Base and Calendar Refill	1 Each

3" x 3 3/4" or equivalent	
Clipboard, Legal	2 Each
Correction Fluid, Multipurpose, White	1 Each
DVD Cases, Slim Line, 25 Count	1 Pack
DVD Discs, R.W., 25 Count	1 Pack
Folders, Manila 250 Count Letter 1/3 Cut File	1 Box
Highlighters, Assorted Fluorescent Colors, 4 Count	1 Pack
Labels, Multipurpose White 500 Count, 3/4" x 1 1/2"	1 Pack
Letter Trays, Stackable, Pack of 6	1 Each
Markers, Large, Permanent, Black	12 Each
Markers, Sharpie, Black or equivalent	12 Each
Memory Card, 2 Gig SD for Digital Camera	1 Each
OIC, Ideal Clamps, Small Box of 50	2 Each
Paper Clips, Jumbo No. 1, Regular, Box of 100	2 Each
Paper Clips, No. 1, Regular, Box of 100	2 Each
Paper, Quadrille Pad, 8 1/2" x 11"	6 Each
Paper, Standard Canary Letter Pads, 6 Count, 8 1/2" x 11 3/4"	1 Pack
Pen, Black	2 Pack
Pen, Red	1 Pack
Pencil, Lead Refill, 0.5 mm, Tube of 12	2 Each
Pencils, Disposable	2 Pack
Pencils, Color (Green)	1 Pack
Pencils, Color (Orange)	1 Pack
Pencils, Color (Red)	1 Pack
Pencils, Color (Yellow)	1 Pack
Pencils, Pentel Forte or equivalent, Automatic Pencil, 0.5 mm	3 Each

Pencils, Zebra Rubber Sharpo Mechanical Pencil or equivalent	2 Each
Post-It Memo Cubes, 3 7/8" x 3 7/8", Cube of 300 Sheets	1 Each
Post-It Notes, Yellow, 12 Count 3" x 3"	1 Pack
Rubber Bands, #16, 1 lb., 2" x 1/16"	1 Each
Rubber Bands, #32, 1 lb., 3" x 1/8"	1 Each
Scissors, Deskwork's or equivalent	1 Each
Staple Remover, Pinch Type	1 Each
Stapler, Black Deluxe Standard	1 Each
Tape Dispenser	1 Each
Tape, Transparent Refills 3/4"	6 Each

FIELD:

Ruler, 6 ft., inch/tenth	6 Each
Tape, 100 ft., Fiberglass with Handle	1 Each
Tape, 25 ft. inch/tenth, Retractable, Lufkin or equivalent	2 Each
Wheel, Measuring English	1 Each

The estimated cost for office and field supplies shall be as follows:

	Bid Amount	Approximate Cost
Up to	\$1,000,000	\$ 625
\$1,000,000	\$3,000,000	\$ 750
\$3,000,000	\$5,000,000	\$ 875
Over	\$5,000,000	\$1,000

**SPECIAL PROVISION
FOR
CONSTRUCTION DEBRIS**

Add the following to the third paragraph of Article 202.03 of the Standard Specifications:

"The Contractor shall not conduct any generation, transportation, or recycling of construction or demolition debris, clean or general or uncontaminated soil generated during construction, remodeling, repair, and demolition of utilities, structures, and roads that is not commingled with any waste, without the maintenance of documentation identifying the hauler, generator, place of origin of the debris or soil, the weight or volume of the debris or soil, and the location, owner, and operator of the facility where the debris or soil was transferred, disposed, recycled or treated. This documentation must be maintained by the Contractor for 3 years."

**SPECIAL PROVISION
FOR
CLEAN CONSTRUCTION AND DEMOLITION DEBRIS**

In accordance with the State of Illinois Environmental Protection Act, the Cook County Department of Transportation and Highways (the Department), as "Site Owner" at the subject highway improvement location, is required to certify that all materials to be taken to an uncontaminated soil fill location, including uncontaminated soil and clean construction and demolition debris, are to be certified as uncontaminated soil.

The Department has performed sufficient testing at the site and has determined that soils to be excavated per the plans as well as existing concrete and asphalt pavement materials meet the criteria to be considered clean construction and demolition debris. Exceptions are listed below*. In accordance with the Act, the certification is made per IEPA Form LPC-663. A copy of the completed Form LPC-663 has been attached to this special provision. The original form is available from;

Ms. Holly Cichy
Chief Engineer of Construction
Cook County Department of Transportation and Highways
69 W. Washington St., 23rd Floor
Chicago, IL 60602
(312) 603-1613

The Contractor is expected to be thoroughly familiar with the provisions of the Environmental Protection Act as it relates to proper disposal of excavated material and construction debris. Should the Contractor choose to dispose of surplus soil material at a registered uncontaminated soil fill location, this form must be submitted to the operator of that location before any materials can be disposed of at that site. The Contractor should be advised that, even with the submittal of the properly executed Form LPC-663, the fill operators retain the right to reject any or all loads from a particular construction site based on their own determination of the suitability of material from that site. Each certification covers only material from that specified job site. The Contractor shall take care not to stockpile or mix together material from different sites before taking that material for disposal.

This special provision is not to be construed as a requirement that obligates the Contractor to dispose of surplus material at a registered uncontaminated soil fill location.

* Based on the Department's investigation and location history including the possible determination of a LUST site or other risk indicators, it has been determined that materials excavated at the following locations may not meet the Clean Construction and Demolition Debris requirements:

*** LOCATIONS TO BE LISTED, IF APPLICABLE**

This Special Provision will modify Article 669 of the Standard Specifications as follows:

The Contractor is advised to consider the cost of disposing of all clean construction and demolition debris as delineated herein and reflect those costs in their bids for **EARTH EXCAVATION** or other appropriate items which may include soils removal. Pay items for **NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, HAZAROUS WASTE DISPOSAL** and **SPECIAL WASTE PLANS AND REPORTS** have been included in the Summary of Quantities in order to provide for the disposal of materials in those

locations listed above. The requirements for removal and disposal of such materials shall be in accordance with Article 669.



Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

**Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)**

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: Center Street Improvements Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

171st Street to 159th Street

City: Harvey State: IL Zip Code: 60426

County: Cook Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.588454 Longitude: -87.646160
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Coordinates were obtained from Google Maps

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Cook County Highway Department

Name: _____

Street Address: 69 W. Washington St., Suite 2100

Street Address: _____

PO Box: _____

PO Box: _____

City: Chicago State: IL

City: _____ State: _____

Zip Code: 60602 Phone: 312-603-1613

Zip Code: _____ Phone: _____

Contact: Holly Cichy

Contact: _____

Email, if available: holly.cichy@cookcountyil.gov

Email, if available: _____

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

IL 532-2922

LPC 663 Rev. 8/2012

Project Name: Center Street Improvements

Latitude: 41.588454 Longitude: -87.646160

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

During the PSI, eleven grab soil samples were tested from eleven soil boring locations (B-1 through B-11) along the project area. The samples were collected at depths representative of the excess soil that will be generated during the planned improvements.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

The samples were tested by an accredited laboratory for VOCs, SVOCs and Total & SPLP RCRA Metals and pH. Pursuant to 35 IAC 1100 dated August 27, 2012, the samples met the objectives of the IEPA MAC Table dated August 27, 2012 and the IEPA supplemental MAC values dated March 18, 2013.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

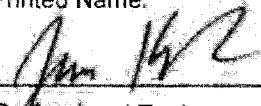
I, James M. Kurnik, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: GEOCON Professional Services, LLC
 Street Address: 9370 W. Laraway Road, Suite D
 City: Frankfort State: IL Zip Code: 60423
 Phone: 815-806-9986

James M. Kurnik, P.E.

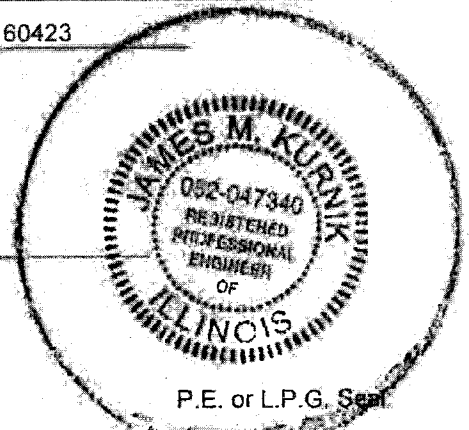
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature

10/9/14

Date:



P.E. or L.P.G. Seal



**First
Environmental
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

April 09, 2014

Mr. Don Lamb
GEOCON Professional Services, LLC
9370 West Laraway Road
Suite D
Frankfort, IL 60423

Project ID: Center St PSI - 14-G139
First Environmental File ID: 14-1555
Date Received: April 01, 2014


Dear Mr. Don Lamb:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 003363: effective 02/18/2014 through 02/28/2015.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,



Stan Zaworski
Project Manager



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The results in this report apply to the samples in the following table:

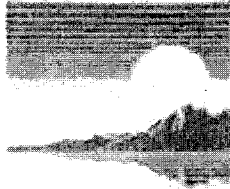
Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
14-1555-001	B1 4'	04/01/14 8:45
14-1555-002	B2 3'	04/01/14 9:15
14-1555-003	B3 6'	04/01/14 9:45
14-1555-004	B4 2'	04/01/14 10:00
14-1555-005	B5 3'	04/01/14 10:20
14-1555-006	B6 2'	04/01/14 10:40
14-1555-007	B7 4'	04/01/14 11:00
14-1555-008	B8 2'	04/01/14 11:30
14-1555-009	B9 3'	04/01/14 12:00
14-1555-010	B10 5'	04/01/14 12:30
14-1555-011	B11 3'	04/01/14 13:00

Sample Batch Comments:

Sample acceptance criteria were met.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L	LCS recovery outside control limits.
C	Sample received in an improper container for this test.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	N	Analyte is not part of our NELAC accreditation.
E	Estimated result; concentration exceeds calib range.	P	Chemical preservation pH adjusted in lab.
G	Surrogate recovery outside control limits.	Q	Result was determined by a GC/MS database search.
H	Analysis or extraction holding time exceeded.	S	Analysis was subcontracted to another laboratory.
J	Estimated result; concentration is less than routine RL but greater than MDL.	W	Reporting limit elevated due to sample matrix.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.



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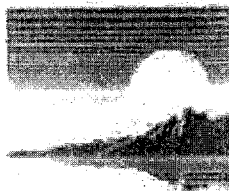
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B1 4'
Sample No: 14-1555-001

Date Collected: 04/01/14
Time Collected: 8:45
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 04/02/14				
Total Solids	85.37		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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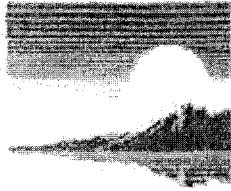
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B1 4'
Sample No: 14-1555-001

Date Collected: 04/01/14
Time Collected: 8:45
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/14				
Preparation Date: 04/04/14				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

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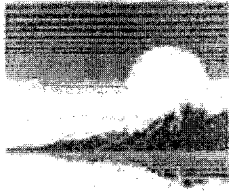
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B1 4'
Sample No: 14-1555-001

Date Collected: 04/01/14
Time Collected: 8:45
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/14		Preparation Date: 04/04/14		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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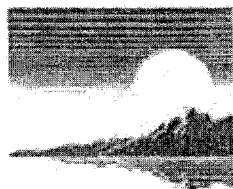
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B1 4'
Sample No: 14-1555-001

Date Collected: 04/01/14
Time Collected: 8:45
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/14				Preparation Date: 04/04/14
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/02/14				Preparation Date: 04/02/14
Arsenic	2.2	1.0	mg/kg	
Barium	13.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	5.3	0.5	mg/kg	
Lead	4.6	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/14				Preparation Date: 04/04/14
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.005	0.005	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2		Method: 9045C		
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	8.09		Units	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B2 3'
Sample No: 14-1555-002

Date Collected: 04/01/14
Time Collected: 9:15
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 04/02/14				
Total Solids	82.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B2 3'
Sample No: 14-1555-002

Date Collected: 04/01/14
Time Collected: 9:15
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/14				
Preparation Date: 04/04/14				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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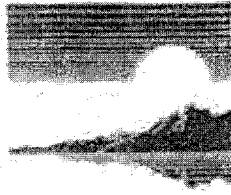
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B2 3'
Sample No: 14-1555-002

Date Collected: 04/01/14
Time Collected: 9:15
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/14		Preparation Date: 04/04/14		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B2 3'
Sample No: 14-1555-002

Date Collected: 04/01/14
Time Collected: 9:15
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/14				Preparation Date: 04/04/14
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/02/14				Preparation Date: 04/02/14
Arsenic	8.7	1.0	mg/kg	
Barium	60.2	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	16.4	0.5	mg/kg	
Lead	11.2	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/14				Preparation Date: 04/04/14
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.014	0.005	mg/L	
Selenium	0.020	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2		Method: 9045C		
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	8.03		Units	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B3 6'
Sample No: 14-1555-003

Date Collected: 04/01/14
Time Collected: 9:45
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 04/02/14				
Total Solids	79.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B3 6'
Sample No: 14-1555-003

Date Collected: 04/01/14
Time Collected: 9:45
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/14				
Preparation Date: 04/04/14				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B3 6'
Sample No: 14-1555-003

Date Collected: 04/01/14
Time Collected: 9:45
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 04/08/14				
	Method: 8270C		Preparation Method 3540C	
			Preparation Date: 04/04/14	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B3 6'
Sample No: 14-1555-003

Date Collected: 04/01/14
Time Collected: 9:45
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	4.8	1.0	mg/kg	
Barium	66.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	16.5	0.5	mg/kg	
Lead	11.4	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.026	0.005	mg/L	
Selenium	0.030	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	7.92		Units	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B4 2'
Sample No: 14-1555-004

Date Collected: 04/01/14
Time Collected: 10:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 04/02/14				
Total Solids	82.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B4 2'
Sample No: 14-1555-004

Date Collected: 04/01/14
Time Collected: 10:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/14				
Preparation Date: 04/04/14				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



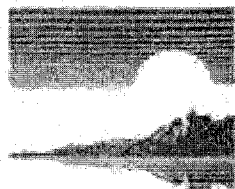
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B4 2'
Sample No: 14-1555-004

Date Collected: 04/01/14
Time Collected: 10:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 04/08/14		Preparation Method 3540C		
		Preparation Date: 04/04/14		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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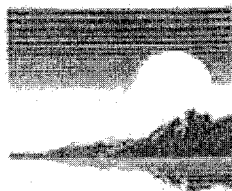
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B4 2'
Sample No: 14-1555-004

Date Collected: 04/01/14
Time Collected: 10:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	1.6	1.0	mg/kg	
Barium	20.3	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	9.0	0.5	mg/kg	
Lead	5.7	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.020	0.005	mg/L	
Selenium	0.028	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	7.94		Units	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B5 3'
Sample No: 14-1555-005

Date Collected: 04/01/14
Time Collected: 10:20
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 04/02/14				
Total Solids	78.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B5 3'
Sample No: 14-1555-005

Date Collected: 04/01/14
Time Collected: 10:20
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/14				
Preparation Date: 04/04/14				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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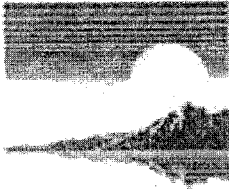
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B5 3'
Sample No: 14-1555-005

Date Collected: 04/01/14
Time Collected: 10:20
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 04/08/14		Preparation Method 3540C		
		Preparation Date: 04/04/14		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B5 3'
Sample No: 14-1555-005

Date Collected: 04/01/14
Time Collected: 10:20
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	4.2	1.0	mg/kg	
Barium	49.2	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	15.2	0.5	mg/kg	
Lead	12.2	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.019	0.005	mg/L	
Selenium	0.023	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	7.79		Units	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B6 2'
Sample No: 14-1555-006

Date Collected: 04/01/14
Time Collected: 10:40
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 04/02/14				
Total Solids	82.83		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B6 2'
Sample No: 14-1555-006

Date Collected: 04/01/14
Time Collected: 10:40
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/14				
Preparation Date: 04/04/14				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzydine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



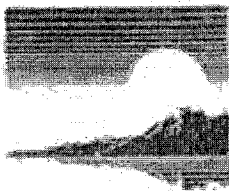
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B6 2'
Sample No: 14-1555-006

Date Collected: 04/01/14
Time Collected: 10:40
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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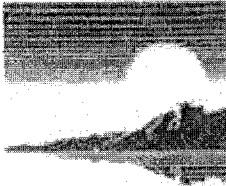
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B6 2'
Sample No: 14-1555-006

Date Collected: 04/01/14
Time Collected: 10:40
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	2.3	1.0	mg/kg	
Barium	17.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	12.7	0.5	mg/kg	
Lead	9.8	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.024	0.005	mg/L	
Selenium	0.035	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	8.25		Units	



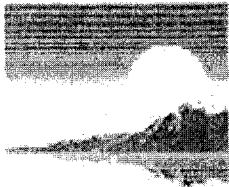
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B7 4'
Sample No: 14-1555-007

Date Collected: 04/01/14
Time Collected: 11:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 04/02/14				
Total Solids	82.81		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B7 4'
Sample No: 14-1555-007

Date Collected: 04/01/14
Time Collected: 11:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B7 4'
Sample No: 14-1555-007

Date Collected: 04/01/14
Time Collected: 11:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B7 4'
Sample No: 14-1555-007

Date Collected: 04/01/14
Time Collected: 11:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	5.9	1.0	mg/kg	
Barium	90.2	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	17.9	0.5	mg/kg	
Lead	8.7	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.015	0.005	mg/L	
Selenium	0.034	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	8.17		Units	



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Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B8 2'
Sample No: 14-1555-008

Date Collected: 04/01/14
Time Collected: 11:30
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 04/02/14				
Total Solids	80.76		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B8 2'
Sample No: 14-1555-008

Date Collected: 04/01/14
Time Collected: 11:30
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzydine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	152	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



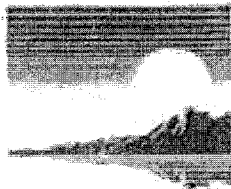
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B8 2'
Sample No: 14-1555-008

Date Collected: 04/01/14
Time Collected: 11:30
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 04/08/14		Preparation Method 3540C		
		Preparation Date: 04/04/14		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	342	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B8 2'
Sample No: 14-1555-008

Date Collected: 04/01/14
Time Collected: 11:30
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	2.4	1.0	mg/kg	
Barium	29.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	15.1	0.5	mg/kg	
Lead	13.1	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.025	0.005	mg/L	
Selenium	0.028	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	8.09		Units	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B9 3'
Sample No: 14-1555-009

Date Collected: 04/01/14
Time Collected: 12:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 04/02/14				
Total Solids	81.90		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



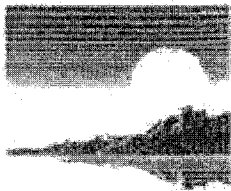
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B9 3'
Sample No: 14-1555-009

Date Collected: 04/01/14
Time Collected: 12:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B9 3'
Sample No: 14-1555-009

Date Collected: 04/01/14
Time Collected: 12:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Method: 8270C		Preparation Date: 04/04/14		
Analysis Date: 04/08/14				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B9 3'
Sample No: 14-1555-009

Date Collected: 04/01/14
Time Collected: 12:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	1.7	1.0	mg/kg	
Barium	29.2	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	12.7	0.5	mg/kg	
Lead	10.0	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.007	0.005	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	7.60		Units	



**First
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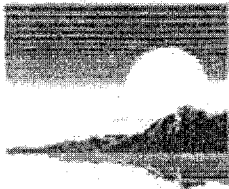
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B10 5'
Sample No: 14-1555-010

Date Collected: 04/01/14
Time Collected: 12:30
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
		Method: 2540B		
Analysis Date: 04/02/14				
Total Solids	79.40		%	
Volatile Organic Compounds				
		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B10 5'
Sample No: 14-1555-010

Date Collected: 04/01/14
Time Collected: 12:30
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/14				
Preparation Date: 04/04/14				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



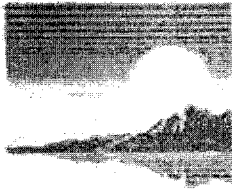
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B10 5'
Sample No: 14-1555-010

Date Collected: 04/01/14
Time Collected: 12:30
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 04/08/14		Preparation Method 3540C		
		Preparation Date: 04/04/14		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



**First
Environmental
Laboratories, Inc.**

IL ELAP/NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B10 5'
Sample No: 14-1555-010

Date Collected: 04/01/14
Time Collected: 12:30
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	4.0	1.0	mg/kg	
Barium	20.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	8.7	0.5	mg/kg	
Lead	5.7	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	0.005	0.005	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	8.26		Units	



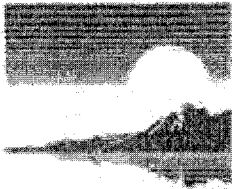
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B11 3'
Sample No: 14-1555-011

Date Collected: 04/01/14
Time Collected: 13:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 04/02/14				
Total Solids	84.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



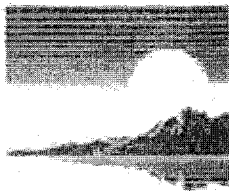
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B11 3'
Sample No: 14-1555-011

Date Collected: 04/01/14
Time Collected: 13:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/07/14				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/14				
Preparation Date: 04/04/14				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzydine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



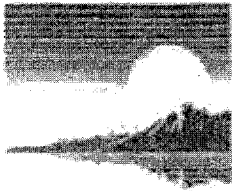
Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B11 3'
Sample No: 14-1555-011

Date Collected: 04/01/14
Time Collected: 13:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Method: 8270C		Preparation Date: 04/04/14		
Analysis Date: 04/08/14				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



Analytical Report

Client: GEOCON Professional Services, LLC
Project ID: Center St PSI - 14-G139
Sample ID: B11 3'
Sample No: 14-1555-011

Date Collected: 04/01/14
Time Collected: 13:00
Date Received: 04/01/14
Date Reported: 04/09/14

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 04/08/14		Preparation Date: 04/04/14		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 04/02/14		Preparation Date: 04/02/14		
Arsenic	3.2	1.0	mg/kg	
Barium	18.4	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	6.6	0.5	mg/kg	
Lead	6.6	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 04/04/14				
Mercury	< 0.05	0.05	mg/kg	
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 04/05/14		Preparation Date: 04/04/14		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	< 0.005	0.005	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 04/08/14				
Mercury	< 0.0005	0.0005	mg/L	
pH @ 25°C, 1:2				
Method: 9045C				
Analysis Date: 04/04/14 11:30				
pH @ 25°C, 1:2	10.19		Units	



First Environmental Laboratories, Inc.

First Environmental Laboratories

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Phone: (630) 778-1200 • Fax: (630) 778-1233
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IEPA Certification #100292

CHAIN OF CUSTODY RECORD

Company Name: Gecon Professional Services LLC

Street Address: 9370 V. Lanning Rd. Suite D

City: Frankfort

State: IL Zip: 60423

Phone: (815) 806-9986 Fax: (815) 464-8691 e-mail: dlamb@gecon.com

Send Report To: Don Lamb Via. Fax e-mail

Sampled By: Don Lamb

Project I.D.: PF Center St PSE
P.O. #: 14-6139

Analyses

Date/Time Taken	Sample Description	Matrix	Analyses											Comments	Lab I.D.	
			S	X	X	X	X	X	X	X	X	X	X			X
4/1/14 8:45 ^A	B1 4'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	14-1555-001
9:15 ^A	B2 3'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	002
9:45 ^A	B3 6'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	003
10:00 ^A	B4 2'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	004
10:20 ^A	B5 3'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	005
10:40 ^A	B6 2'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	006
11:00 ^A	B7 4'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	007
11:30 ^A	B8 2'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	008
12 ^P	B9 3'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	009
12:30 ^P	B10 5'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	010
1 ^P	B11 3'	S	X	X	X	X	X	X	X	X	X	X	X	X	X	011

FOR LAB USE ONLY:

Cooler Temperature: 0.1-6°C Yes No °C
 Received within 6 hrs. of collection: Yes No
 Ice Present: Yes No
 Sample Refrigerated: Yes No °C
 Refrigerator Temperature: _____ °C
 5035 Vials Frozen: Yes No
 Freezer Temperature: _____ °C
 Preservation Requirements Met: Yes No
 Need to meet: IL TACO IN RISC

Notes and Special Instructions: Standard form none

Relinquished By: DLL Date/Time: 4/1/14 4:30^{PM} Received By: PLA Date/Time: 4/1/14 16:30
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

**SPECIAL PROVISION
FOR
PORTLAND CEMENT CONCRETE PAVEMENT**

This contract includes construction of Portland Cement Concrete Pavement. The paving contractor performing this work shall be pre-qualified by IDOT in accordance with 44 IL ADMINISTRATIVE CODE SECTION 650 ADOPTED JULY 1, 1994 AND AMENDED DECEMBER 7, 2000 – APPENDIX A - AVAILABLE WORK CATEGORIES - category # 2 – PORTLAND CEMENT CONCRETE PAVING.

**SPECIAL PROVISION
FOR
MANAGING CONCRETE WASTE**

Description. Prevent or reduce the discharge of pollutants to stormwater from concrete waste including diamond grinding slurry or residue by conducting washout offsite or by performing onsite washout in a designated area.

Construction. Perform this work on projects where;

- Concrete is used as a construction material or where concrete dust and debris result from demolition activities
- Slurries containing portland cement concrete (PCC) or asphalt concrete (AC) are generated, such as from saw cutting, coring, grinding, grooving, and hydro-concrete demolition
- Concrete trucks and other concrete-coated equipment are washed onsite
- Mortar-mixing stations exist

Requirements.

- No discharge of water/lime slurry will be allowed to enter "waters of the state".
"Waters of the state" - all rivers, streams, lakes and other bodies of surface and subsurface water lying within the boundaries of the state which are not entirely confined and located completely upon lands owned, leased or otherwise controlled by a single person or entity.
- The slurry shall not be discharged to drainage ways, non-vegetated areas or anywhere storm water runoff is likely to occur.
- Discharge of the slurry should be stopped
 - at least 25 feet from creeks and rivers on slopes less than 12 percent.
 - at least 50 feet on slopes 12 percent to 25 percent in areas with healthy vegetation on the road right of way.
 - at least 12 feet from the bottom of all ditches.
- On sites where there is sparse or no vegetation to control the movement of the slurry, alternatives that may be used include:
 - Pump the slurry into tankers and hauled to an area where it can be spread as a lime supplement. This method will require additional tankers and land close to the project site.
 - Incorporate the slurry into the soil on the right of way next to the road where it will not impact waters of the state, highway or shoulders.
- The Resident Engineer must approve any other method of application or use of the slurry. The design engineer should be contacted for guidance on the use of alternative methods.
- Precautions must be taken at all times to prevent the slurry from entering the waters of the state. Should improper application occur which may result in a discharge of lime slurry to the waters of the state, the contractor shall immediately remove the slurry and notify the Resident Engineer.

Implementation. The following steps shall be taken to help reduce stormwater pollution from concrete wastes:

- Store dry and wet materials under cover, away from drainage areas.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks offsite or in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped onsite, except in designated areas.

For onsite washout:

- Locate washout area at least 50 feet from storm drains, open ditches, or water bodies.
- Prevent runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.
- Avoid creating runoff by draining water to a bermed or level area when washing concrete to remove fine particles and expose the aggregate.
- Do not wash sweepings from exposed aggregate concrete into the street or storm drain.
- Collect and return sweepings to aggregate base stockpile or dispose in the trash.

For Concrete Slurry Wastes. The following steps shall be taken when handling and disposing of concrete slurry wastes containing portland cement concrete (PCC) or asphalt concrete (AC) generated, such as from saw cutting, coring, grinding, grooving, and hydro-concrete demolition.

- PCC and AC waste should not be allowed to enter storm drains or watercourses.
- PCC and AC waste should be collected and disposed of or placed in a temporary concrete washout facility.
- A sign should be installed adjacent to each temporary concrete washout facility to inform concrete equipment operators to utilize the proper facilities.
- Below grade concrete washout facilities are typical. Above grade facilities are used if excavation is not practical.
- A foreman or construction supervisor should monitor onsite concrete working tasks, such as saw cutting, coring, grinding and grooving to ensure proper methods are implemented.
- Saw-cut PCC slurry should not be allowed to enter storm drains or watercourses.
- Residue from grinding operations should be picked up by means of a vacuum attachment to the grinding machine.
- Saw cutting residue should not be allowed to flow across the pavement and should not be left on the surface of the pavement.

Slurry residue should be vacuumed and disposed in a temporary pit (as described below) and allowed to dry. Dispose of dry slurry residue in accordance with

For Onsite Temporary Concrete Washout Facility:

- Temporary concrete washout facilities should be located a minimum of 50 ft from storm drain inlets, open drainage facilities, and watercourses. Each facility should be located away from construction traffic or access areas to prevent disturbance or tracking.
- A sign should be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.
- Temporary concrete washout facilities should be constructed above grade or below grade at the option of the contractor. Temporary concrete washout facilities should be constructed and maintained in sufficient quantity and size to contain all liquid and concrete waste generated by washout operations.
- Temporary washout facilities should have a temporary pit or bermed areas of sufficient volume to completely contain all liquid and waste concrete materials generated during washout procedures.
- Washout of concrete trucks should be performed in designated areas only.
- Only concrete from mixer truck chutes should be washed into concrete wash out.
- Concrete washout from concrete pumper bins can be washed into concrete pumper trucks and discharged into designated washout area or properly disposed of offsite.
- Once concrete wastes are washed into the designated area and allowed to harden, the concrete should be broken up, removed, and disposed of per WM-5, Solid Waste Management. Dispose of hardened concrete on a regular basis.
- Temporary Concrete Washout Facility (Type Above Grade)
 - Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this BMP, with a recommended minimum length and minimum width of 10 ft, but with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations.
 - Silt Fence, wood stakes, and sandbag materials should conform to the provisions in SE-9, Straw Bale Barrier.
 - Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.
- Temporary Concrete Washout Facility (Type Below Grade)
 - Temporary concrete washout facilities (type below grade) should be constructed as shown on the details at the end of this BMP, with a recommended minimum length and minimum width of 10 ft. The quantity and volume should be sufficient to contain all liquid and concrete waste generated by washout operations.
 - Lath and flagging should be commercial type.
 - Plastic lining material should be a minimum of 10 mil polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.

Removal of Temporary Concrete Washout Facilities: When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

Inspection and Maintenance.

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly during the rainy season and of two-week intervals in the non-rainy season to verify continued BMP implementation.
- Temporary concrete washout facilities should be maintained to provide adequate holding capacity with a minimum freeboard of 4 in. for above grade facilities and 12 in. for below grade facilities.
- Maintaining temporary concrete washout facilities should include removing and disposing of hardened concrete and returning the facilities to a functional condition.
- Hardened concrete materials should be removed and disposed of.
- Washout facilities must be cleaned, or new facilities must be constructed and ready for use once the washout is 75% full.

Disposal for the Diamond Grinding Slurry (Non Hazardous Only).

Transporting. - Transport the diamond grinding slurry from the diamond grinder to a licensed Type II municipal landfill for solidification or to a licensed liquid industrial waste disposal facility. Cover and contain to prevent loss to the environment during transport and delivery to the licensed facility.

Solid Waste Facility. Dispose of the diamond grinding slurry in a licensed Type II municipal landfill pursuant to Part 115 of Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). The disposal shall be consistent with the landfill's waste acceptance policies and the slurry shall be solidified sufficiently to pass the paint filter test.

Licensed Liquid Industrial Waste Disposal Facility. The diamond grinding slurry may also be processed as a liquid industrial waste at a licensed liquid industrial waste facility pursuant to Part 121 of the Liquid Industrial Waste, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), provided the disposal is consistent with the licensed liquid waste facility processor acceptance policies.

Records Furnish a complete waste disposal manifest for each load prepared by the Contractor with copies to the Engineer containing information on the point of generation including roadway, the volume transported, and the name of licensed disposal facility.

Contractor Responsibility for Method of Operations. This specification sets forth minimum steps to avoid violating environmental laws. It remains the responsibility of the Contractor to determine whether more than those minimum steps are required and to perform the work required by this contract in whatever manner may be required to comply with applicable laws. The Contractor shall be liable to the Department for any fines, costs, or remediation costs incurred by the Department as a result of the Contractor's failure to be in compliance with this specification and all federal, state and local laws.

Measurement and Payment: All costs associated with the collecting, handling, transporting by contractor or licensed industrial waste hauler, manifesting the waste, managing the diamond grinding slurry, and disposing will not be paid for separately but will be included in the payment for other items of work. All costs associated with full compliance with applicable laws regardless of whether or not all applicable laws are cited in this special provision or in the Standard Specification for Construction will be borne by the Contractor.

**SPECIAL PROVISION
FOR
DOWEL BARS**

Revise the fifth and sixth sentences of Article 1006.11(b) of the Standard Specifications to read:

"The bars shall be epoxy coated according to AASHTO M 284, except the thickness of the epoxy shall be 7 to 12 mils (0.18 to 0.30 mm) and patching of the ends will not be required. The epoxy coating applicator shall be certified according to the current IDOT Bureau of Materials and Physical Research Policy Memorandum, "Epoxy Coating Plant Certification Procedure". The Department will maintain an approved list."

Basis of Payment. Dowel Bars required for Pavement Patching or placement of P.C. Concrete Pavement will NOT be paid for separately. The cost of the dowel bars will be included in the cost for the respective pavement replacement item. Contraction joints requiring the use of dowel bars will be located at the direction of the Engineer and placed in accordance with the applicable Illinois Department of Transportation Standard or Specification as well as any other note, detail or standard contained in the project plans and specifications.

**SPECIAL PROVISION
FOR
SURVEY MONUMENTS**

Description. The Contractor shall cause all work necessary to be performed for the preservation, relocation and erection of Survey Monuments at all points hereinafter described. Installation shall be made in accordance with the details shown on plans.

Survey Monuments. All section, quarter section or other government established corners which are discovered or known to exist within the limits of the proposed improvement are to be re-established (as later specified) in accordance with the details shown on the Standard Design for Cook County Survey Monuments. All section corners located within the project limits or as called out on the plans will be located by a Registered Land Surveyor and a physical monument installed at the located corner in accordance with the details specified below. This will be done even if an existing monument is not found at that corner.

Placing Monuments. When monuments are located within the limits of the proposed improvements, they shall not be disturbed by the Contractor until a Registered Land Surveyor shall have made such reference as may be necessary to preserve their location. After the pavement is laid, the original location of the monuments shall be identified by placing in position, vertically above or below the original location, the new monuments which shall comply with details shown on the Standard Designs. In case monuments do not fall within the limits of the pavement, the monument shall be placed in a 2-1/2 inch wrought iron pipe, 3 feet long, driven flush with the ground surface and grouted as shown on the aforesaid Standard design. The plugs for this purpose shall be furnished by a Registered Land Surveyor and shall be set securely and in a workmanlike manner flush with the surface of the ground or pavement in accordance with the requirements of the law and under the direction of a Registered Land Surveyor. When section corners without existing monumentation are located within the project limits or as specifically directed in the plans, that corner shall be located and monumented as described above.

Plat. The location of all monuments to be preserved, reset or erected within the limits of the improvement shall be shown on a plat or plats which delineates and describes each corner monument. Preparation of the above plat must conform with Illinois Public Act 79-649, entitled "An Act to provide for the perpetuation of land survey Monuments". Each plat shall be recorded by the Surveyor in the office of the County Recorder. Copies of the plat or plats, as recorded and bearing the appropriate document number, shall be furnished to and become the property of the Cook County Department of Transportation and Highways (one copy to the Pavement Geometrics Division - Survey Section and one copy to the Right of Way Bureau).

Basis of Payment. This work will be paid for at the contract unit price each for Survey Monuments, relocated and erected within the limits of the improvement or as specifically directed in the plans, which price shall include the cost of all labor, tools and materials used in the performance of preserving, relocating and identifying the monuments, as well as the salary and expense of the Registered Land Surveyor while engaged in this work.

**SPECIAL PROVISION
FOR
SOILS INFORMATION**

All soils information upon which the design was prepared is available for examination by all prospective bidders at the office of the Cook County Department of Transportation and Highways. Information may also be posted on the Transportation and Highways Department ftp site along with the contract plans. All interested parties are advised to access this site to review any posted information. Instructions for accessing this site are found on page 1 of this document. Information regarding Clean Construction Debris and Demolition (CCDD), if applicable to the project, may be found in the special provision.

Any information shown on the plans, posted online, available in the Transportation and Highways Department offices or contained in the Special Provisions pertaining to subsurface exploration, borings, test pits, roadway cores and other preliminary investigations represents only the best knowledge of the Department as to the location, character or quantity of the materials encountered and is only included for the convenience of the bidder. The Department assumes no responsibility whatever in respect to the sufficiency or accuracy of the information, and there is no guaranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the work, or that unanticipated developments may not occur.

The bidder will be permitted to see and examine this information for whatever value he considers it worth. Any additional borings deemed necessary by the bidder shall be made at his own expense. It is expected that each bidder will, prior to submitting his bid, visit the site of the work, examine the local conditions, inform himself as to the accessibility of the work, and ascertain the character of the material to be excavated and obtain such available information as will assist him to make an intelligent bid. Failure of a bidder to make such an examination may be held to be sufficient reason to reject his bid. No allowance will be made for failure of a bidder or contractor to estimate the difficulties attending the execution of the work.

**SPECIAL PROVISION
FOR
STOCKPILED EMBANKMENT**

All material excavated on site and designated to be used as fill on the plans or described as fill on the typical sections, cross sections, notes, details or specifications for this project shall be placed in accordance with Section 205 of the Standard Specifications for Road and Bridge Construction with the exception that no additional compensation will be allowed for this work and it will be considered as included in the contract unit price for Earth Excavation.

Furnished Excavation, Borrow Excavation, Porous Granular Embankment, Trench Backfill or any other specific fill material designated in the Summary of Quantities shall be paid for per the unit price for each respective item as specified. In the event that suitable material excavated on site is stockpiled for use as backfill in areas of unsuitable material excavation or due to construction staging, payment will be allowed for the additional movement of this material. Payment shall be measured as compacted in-place per cubic yard for Earth Excavation as provided for in the plans and as directed by the Engineer. No additional compensation will be made for material that is stockpiled but not used.

All surplus or unsuitable material will be wasted in accordance with Section 202 of the Standard Specifications for Road and Bridge Construction.

**SPECIAL PROVISION
FOR
CRUSHED STONE (TEMPORARY USE)**

Description. This work shall consist of furnishing and placing crushed stone for temporary use to provide and maintain ingress and egress to abutting properties during construction operations. It shall be used for access to intersecting roadways, alley returns, crosswalks and other places required by the Engineer. The crushed stone or gravel shall have a gradation of CA6 or CA10 conforming to Article 1004.01 of the State Standard Specifications. Excess materials recovered from the job site such as bituminous grindings and sub-base granular materials from existing pavements may be utilized at the discretion of the Engineer.

Basis of Payment. This work will be paid for at the Lump Sum for Crushed Stone (Temporary Use). An estimated quantity may be given in the plans for informational use only. The Lump Sum payment shall include furnishing, transporting, placing, maintaining, reusing and the ultimate disposal of the Crushed Stone (Temporary Use) as herein specified or as directed by the Engineer.

**SPECIAL PROVISION
FOR
AGGREGATE SUBGRADE (12 INCH)**

This work shall be done in accordance with the applicable portions of Section 207 of the Standard Specifications. The material shall conform to Article 1004.05 of the Standard Specifications except as follows:

1. Crushed Stone, Crushed Blast Furnace Slag, and Crushed Concrete will be permitted. Steel slag and other expansive materials as determined through testing by the Department will not be permitted.

<u>Sieve Size</u>	<u>Percent Passing</u>
6 inches (150mm)	97±3
4 inches (100mm)	90±10
2 inches (50mm)	45±25
#200 (75 µm)	5±5

2. Gravel, Crushed Gravel, and Pit Run Gravel

<u>Sieve Size</u>	<u>Percent Passing</u>
6 inches (150mm)	97±3
4 inches (100mm)	90±10
2 inches (50mm)	55±25
#4 (4.75mm)	30±20
#200 (75 µm)	5±5

3. Crushed Concrete with Bituminous Materials*

<u>Sieve Size</u>	<u>Percent Passing</u>
6 inches (150mm)	97±3
4 inches (100mm)	90±10
2 inches (50mm)	45±25
#4 (4.75mm)	20±20
#200 (75 µm)	5±5

*The Bituminous material shall be separated and mechanically blended with the crushed concrete so that the bituminous material does not exceed 40% of the final product. The top size of the bituminous material in the final product shall be less than 4 inches (100mm) and shall not contain more than 10.0% steel slag RAP or any material that is considered expansive by the Department.

The Aggregate Subgrade shall be placed in two lifts consisting of a 9 inch (225mm) and variable nominal thickness lower lift and a 3 inch (75 mm) nominal thickness top lift of capping aggregate having a gradation of CA 6. The CA 6 may be blended as follows. The bituminous materials shall be separated and mechanically blended with interlocking feeders with crushed concrete or natural aggregate, in a manner that the bituminous material does not exceed 40% of the final product. This process shall be approved by the Engineer prior to start of production. The top side of the bituminous material in the final products shall be less than 1½ inch (37.5mm) and shall not contain any material considered expansive by the department. Reclaimed Asphalt Pavement (RAP) (having a maximum of 10% steel slag RAP) meeting the requirements of Article 1031 of the Standard Specifications and having 100% passing the 1½ inch (37.5mm) sieve and well graded down through fines may also be used as capping aggregate. IDOT testing of the RAP material will be the determining factor for determining the percent steel slag RAP or Expansive Material. When the contract specifies that an aggregate subbase is to be placed on the Aggregate Subgrade, the 3 inch (75 mm) of capping aggregate will be eliminated. A vibratory roller meeting the requirements of Article 1101.01(g) of the Standard Specifications shall be used to roll each lift of material to obtain the desired keying or interlock and necessary compaction. The Engineer will verify that adequate keying has been obtained.

When a recommended remedial treatment for unstable subgrades is included in the contract, the lower lift of Aggregate Subgrade may be placed simultaneously with the material for Porous Granular Embankment, Subgrade when the total thickness to be placed is 2 feet (600mm) or less.

Method of Measurement.

- 1) Contract Quantities. Contract quantities shall be in accordance with Article 202.07.
- 2) Measured Quantities. Aggregate Subgrade will be measured in place and the area computed in square yards (square meters).

Basis of Payment. This work will be paid for at the contract unit price per square meter (square yard) for Aggregate Subgrade (12 Inch), which price shall include the capping aggregate.

**SPECIAL PROVISION
FOR
TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL**

Description. This work shall consist of furnishing and installing a tangent type Traffic Barrier Terminal, Type 1, Special according to Section 631 of the Standard Specifications and the following:

The terminal and required shoulder area shall conform to Sheet No. 1 of I.D.O.T. Standard No. 630301-04. Tapering of the terminal, as shown on the standard, is required in order to offset the extruder head and eliminate encroachment on the highway pavement of curb.

The terminals at a single location within a project shall be of the same manufacture and configuration and shall be identical in design and appearance.

Materials and Construction Requirements for Direct Applied Reflectorized Terminal Marker.

Direct Applied Reflectorized Terminal Markers shall be fabricated using Types AP or ZZ reflectorized sheeting. All materials used shall meet the applicable requirements of Sections 1090 and 1091 of the Standard Specifications.

The sheeting shall be uniform in color throughout and conform to the latest appropriate standard color tolerance chart issued by the U.S. Department of Transportation, Federal Highway Administration.

Direct Applied Reflectorized Terminal Markers shall be installed directly to the guardrail terminal end. The surface of the guardrail terminal end shall be cleaned of all contaminants prior to the installation of the terminal marker. The surface shall be cleaned using a 5-8 percent phosphoric acid solution and rinsed with clean water or as recommended by the manufacturer of the direct applied terminal marker sheeting and as approved by the Engineer.

Direct Applied Reflectorized Terminal Markers shall conform to the terminal marker details as shown on I.D.O.T. Standard No. 635006-02.

Basis of Payment. This work will be paid for at the contract unit price each for Traffic Barrier Terminal, Type 1, Special which price shall include furnishing and installing all parts and materials, foundations, transitions, tapers, delineations and any excavation or backfilling required. The cost of furnishing and installing Direct Applied Reflectorized Terminal Markers shall be considered as included in the contract unit price for Traffic Barrier Terminal, Type 1, Special. The cost for Hot-Mix-Asphalt shoulders will be paid separately.

**SPECIAL PROVISION
FOR
CUTTING HOT-MIX ASPHALT SURFACE**

Description. This work shall consist of the cutting of the hot-mix asphalt surface wherever indicated and to the depth as shown on the plans and as required by the Engineer.

The hot-mix-asphalt surface shall be cut to a straight line and a vertical plane by a method approved by the Engineer.

It shall be the responsibility of the Contractor to determine the thickness of the existing hot-mix-asphalt surface course as well as underlying pavement layers as may be impacted by the required cutting. No additional compensation will be allowed because of variations from the assumed thicknesses or from the thicknesses shown on the plans.

Basis of Payment. This work will be paid for at the Contract Unit Price per Foot for Cutting Hot-Mix Asphalt Surface.

**SPECIAL PROVISION
FOR
TEMPORARY BY-PASS PAVEMENT (FA)**

Description. This work shall consist of furnishing and placing a Temporary By-Pass Pavement providing sufficient pavement width to accommodate routing of traffic during construction. This additional by-pass pavement, plus that portion of the existing pavement to be used for traffic during construction shall be surfaced with 1-1/2 In. of Hot-Mix Asphalt Surface Course, Mix "D", IL-9.5, N70 before the By-Pass pavement becomes operational. At the direction of the Engineer, Bituminous Materials (Prime Coat) and Aggregate (Prime Coat) may be applied to the by-pass pavement before resurfacing. Items have been included in the Summary of Quantities for this work. Under no circumstances should Polymerized Leveling Binder be used for this purpose. In addition, the Engineer retains the discretion to limit the resurfacing to only the by-pass pavement as circumstances dictate such as when temporary by-pass pavement is placed adjacent to a newly constructed Hot-Mix-Asphalt surface.

At the option of the contractor, the Temporary By-Pass Pavement Base Course shall be constructed with one of the following pavement compositions and its associated specifications:

- 1) Temporary Pavement (HMA Binder, IL-19.0), 9 In.
- 2) P.C. Concrete Base Course, 6 In.

On Temporary By-pass roads or pavement, Temporary Raised Reflective Markers shall be used throughout the construction area and approaches and spaced at forty (40) foot intervals. Their placement and replacement, as needed, shall be considered incidental to the cost of Traffic Protection.

Basis of Payment. This work shall be paid for at the contract unit price per Square Yard for Temporary By-Pass Pavement, which shall include payment in full for the necessary excavation, grading and maintenance of the by-pass road while in operation, including that portion of the existing roadway serving as by-pass pavement and the subsequent removal of the new temporary by-pass pavement; per Ton for Hot-Mix Asphalt Surface Course, Mix "D", IL-9.5, N70; per Gallon for Bituminous Materials (Prime Coat); and per Ton for Aggregate (Prime Coat).

TEMPORARY SOIL RETENTION SYSTEM

Effective: December 30, 2002

Revised : May 11, 2009

Description. This work shall consist of designing, furnishing, installing, adjusting for stage construction when required and subsequent removal of the temporary soil retention system according to the dimensions and details shown on the plans and in the approved design submittal.

General. The temporary soil retention system shall be designed by the Contractor as a minimum, to retain the exposed surface area specified in the plans or as directed by the Engineer.

The design calculations and details for the temporary soil retention system proposed by the Contractor shall be submitted to the Engineer for approval. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. This approval will not relieve the Contractor of responsibility for the safety of the excavation. Approval shall be contingent upon acceptance by all involved utilities and/or railroads.

Construction. The Contractor shall verify locations of all underground utilities before installing any of the soil retention system components or commencing any excavation. Any disturbance or damage to existing structures, utilities or other property, caused by the Contractor's operation, shall be repaired by the Contractor in a manner satisfactory to the Engineer at no additional cost to the Department. The soil retention system shall be installed according to the Contractor's approved design, or as directed by the Engineer, prior to commencing any related excavation. If unable to install the temporary soil retention system as specified in the approved design, the Contractor shall have the adequacy of the design re-evaluated. Any reevaluation shall be submitted to the Engineer for approval prior to commencing the excavation adjacent to the area in question. The Contractor shall not excavate below the maximum excavation line shown in the approved design without the prior permission of the Engineer. The temporary soil retention system shall remain in place until the Engineer determines it is no longer required.

The temporary soil retention system shall be removed and disposed of by the Contractor when directed by the Engineer. When allowed, the Contractor may elect to cut off a portion of the temporary soil retention system leaving the remainder in place. The remaining temporary soil retention system shall be removed to a depth which will not interfere with the new construction, and as a minimum, to a depth of 12 in. (300 mm) below the finished grade, or as directed by the Engineer. Removed system components shall become the property of the Contractor.

When an obstruction is encountered, the Contractor shall notify the Engineer and upon concurrence of the Engineer, the Contractor shall begin working to break up, push aside, or remove the obstruction. An obstruction shall be defined as any object (such as but not limited to, boulders, logs, old foundations etc.) where its presence was not obvious or specifically noted on the plans prior to bidding, that cannot be driven or installed through or around, with normal driving or installation procedures, but requires additional excavation or other procedures to remove or miss the obstruction.

Method of Measurement. The temporary soil retention system furnished and installed according to the Contractor's approved design or as directed by the Engineer will be measured for payment in place, in square feet (square meters). The area measured shall be the vertical exposed surface area envelope of the excavation supported by temporary soil retention system. Portions of the temporary soil retention system left in place for reuse in later stages of construction shall only be measured for payment once.

Any temporary soil retention system installed beyond those dimensions shown on the contract plans or the approved contractor's design without the written permission of the Engineer, shall not be measured for payment but shall be done at the contractor's own expense.

Basis of Payment. This work will be paid for at the contract unit price per square foot (square meter) for TEMPORARY SOIL RETENTION SYSTEM.

Payment for any excavation, related solely to the installation and removal of the temporary soil retention system and/or its components, shall not be paid for separately but shall be included in the unit bid price for TEMPORARY SOIL RETENTION SYSTEM. Other excavation, performed in conjunction with this work, will not be included in this item but shall be paid for as specified elsewhere in this contract.

Obstruction mitigation shall be paid for according to Article 109.04 of the Standard Specifications.

**SPECIAL PROVISION
FOR
BORING AND JACKING STORM SEWERS, SANITARY SEWERS OR WATER MAINS**

Description. This work shall consist of boring and jacking of a steel casing and the insertion of storm sewers, sanitary sewers or water mains under streets and railroads. The hole for the steel casing is mechanically bored at the same time as the metal casing is jacked in place conforming in all respects to the lines, grades and details shown on the plans and as directed by the Engineer.

Materials. The casing pipe shall be new, unused smooth wall steel pipe of the diameter shown on the plans and wall thickness as shown on the table below or as specified by the particular Railroad or Agency involved. The pipe shall have a minimum yield strength of 35,000 psi. The storm sewer shall be of the size and type as shown on the plans. (Sanitary sewer or water main where applicable.)

Construction Methods. The casing pipe shall be installed to the line and grades as shown on the plans using equipment that will jack the casing pipe under the street or railroad. The material within the casing pipe is to be removed mechanically using a cutting head and a continuous auger inserted inside of the casing pipe. The casing pipe must be jacked simultaneously with the boring of the hole. If the length to be bored and jacked is such that more than one section of steel pipe is to be used, the sections must be joined by welding the total circumference of the joint.

All sheeting, bracing, shoring, jacks, jacking frame, guides, backstop, augers and other materials and equipment necessary for the complete installation shall be of substantial strength and construction and shall be subject to the approval of the Engineer and Railroad Company or Agency involved.

The storm sewer, sanitary sewer or water main shall be laid inside the casing pipe in a manner acceptable to the Engineer. Joints of storm sewers shall be sealed with pre-formed flexible gaskets. Joints of sanitary sewers shall be sealed so that the maximum infiltration or exfiltration rate does not exceed 200 gallons per 24 hours per mile per inch diameter for any section of the system at any time during its service life. Joints of water main shall be of push type or mechanical joint. The ends of the casing pipe shall be suitably protected from entrance of foreign material.

When the contract provides that this work shall be performed under operating railroad right of way, the Contractor will be required to provide public liability and property damage insurance as outlined elsewhere in this proposal.

Basis of Payment. This work shall be paid for at the contract unit price per foot of BORING AND JACKING STORM SEWERS, BORING AND JACKING SANITARY SEWERS or BORING AND JACKING WATER MAINS of the size specified, complete in place as required herein and in the plans, which shall include all necessary materials and labor for the casing pipe and the encased carrier pipe.

TABLE OF MINIMUM WALL THICKNESS FOR STEEL CASING PIPE					
Coated or Cathodically		Nominal Diameter	Coated or Cathodically		Nominal Diameter
	Uncoated			Uncoated	

Protected	& Unprotected	(inches)	Protected	& Unprotected	(inches)
0.188	0.251	Under 14	0.406	0.469	28 & 30
0.219	0.282	14 & 16	0.438	0.501	32
0.250	0.313	18	0.469	0.532	34 & 36
0.281	0.344	20	0.500	0.563	38, 40, & 42
0.312	0.375	22	0.563	0.626	48
0.344	0.407	24	0.625	0.688	54
0.375	0.438	26			

**SPECIAL PROVISION
FOR
PLUGGING EXISTING DRAINS AND SEWERS**

Description: This work involves the plugging of all existing domestic and industrial drains and street sewers that are encountered within the construction limits of this improvement in accordance with these special provisions.

Construction Methods: All existing domestic and industrial drains and street sewers shall be removed to a point where the depth of the top of the drain or sewer is a minimum of three feet below finished grade. The remaining portion shall then be plugged with Class SI Concrete for a distance of two (2) feet from the aforementioned point. Care shall be taken to provide a water tight concrete plug without voids.

Method of Measurement: Where known, drains and sewers to be plugged are shown on the plans. The amount of this work shown in the quantities is an estimate considered reasonably adequate for this project, however, it shall be the responsibility of the Contractor to investigate and determine where all such drains and sewers exist and to perform the required work as provided for herein.

The length of drains and sewers which are required for removal under this item of work, including the excavation pertinent thereto, shall be considered only from the finished grade beyond the limits of Earth Excavation.

The pay quantity of drains and sewers to be plugged shall be determined by the Engineer at the time of construction.

Basis of Payment: This work shall be paid for at the contract unit prices each for Plugging Existing Drains and Sewers (12 In. or Less) and Plugging Existing Drains and Sewers (Over 12 In.), which prices shall include the cost of all excavation, removal of existing drains and sewers, backfilling, disposal of all waste materials, and the furnishing and placing of the Class SI Concrete together with all labor, tools and equipment necessary to complete the work in accordance with the plans and these special provisions.

**SPECIAL PROVISION
FOR
LIDS AND FRAMES AND LIDS**

Description. Where the term lids is used in the Summary of Quantities, on County Transportation and Highways Standards and in the Plans, it shall be considered synonymous with the term grates and be subject to the provisions of Article 604 of the State Standard Specifications for Road and Bridge Construction.

Basis of Payment. This work shall be paid for at the contract unit price each for Lids and for Frames and Lids of the type specified, which price shall include the cost of the mortar bed.

**SPECIAL PROVISION
FOR
FLARED END SECTIONS TO BE REMOVED, FLARED END SECTIONS TO BE RELOCATED**

Description. This work shall consist of the removal of existing concrete flared end sections to be either reinstalled at a specified location or disposed of properly. Where flared end sections are to be relocated, care shall be taken so as not to damage the existing flared end section or the existing pipe culvert during removal and transportation. The existing mortar or mastic shall be removed from the end section prior to its reuse to insure that a properly sealed joint results following reinstallation. The resulting disturbed ditch area shall be regraded appropriately according to the plans including restoration with seeding or sodding. Any damages incurred to the existing pipe culvert or flared end section as a result of this work shall be the full responsibility of the Contractor. Damaged pipe culverts or flared end sections shall be replaced and installed at the Contractor's expense. All work shall be performed at the direction of the Engineer.

Basis of Payment. This work shall be paid for at the contract unit price each for Flared End Sections to be Removed (IN. DIA. RCCP) and Flared End Sections to be Relocated (IN. DIA. RCCP) of the size specified. This price shall include the cost of all labor, materials and equipment necessary to perform this work in addition to all disposal costs.

**SPECIAL PROVISION
FOR
BRACING AND SHEETING**

Description. The Contractor, if necessary, shall furnish, place and maintain all bracing and sheeting to safeguard adjacent utilities, as well as the work done under this contract.

Construction Cost. A drawing showing the method and sizes of bracing and sheeting proposed to be used shall be submitted to and approved by, the Engineer before the necessary materials or equipment are ordered by the Contractor.

If at anytime the method being used by the Contractor for supporting any material, highway or utility structure adjacent to any excavation is not reasonably safe, in the opinion of the Engineer, the Engineer may require and the Contractor shall provide additional bracing and support necessary to furnish the added degree of safety required by the Engineer. The Contractor shall provide such additional bracing and support by any method approved by the Engineer, as he may elect to use, but the taking of such added precautions shall in no way relieve the Contractor of his sole and final responsibility for the safety of lives, work and structures.

Basis of Payment. The cost of such required bracing and sheeting shall not be paid for separately but shall be considered as incidental to the contract.

**SPECIAL PROVISION
FOR
PAVEMENT REPLACEMENT**

Description. This work shall consist of the removal and replacement, and any necessary excavation and embankment of all surface, base course, and subbase as shown on the plans. Where all of the pavement, including subbase, base and surface course, is to be replaced, the item will be specified as "Pavement Replacement". If only surface course, binder course, cushion and joint filler is to be replaced, the item will be specified as "Pavement Replacement - Surface Course". The term "excavation" or "embankment" as used in this Article refers only to that necessary for the preparation of the subgrade, where the "Pavement Replacement" is full depth.

Materials. Materials shall meet the requirements of Division 1000 - Materials.

Construction Requirements.

General. All base, surface courses or subbase removed shall be restored to the original cross section. The elevation of the surface of the replaced surface course shall not vary more than 1/8 inch (3 mm) from the elevation of the surface of the adjoining surface course. The subgrade in the case of surface, base course and subbase removal, and the cushion or filler on the base course in the case of surface course removal, shall be adjusted so that this result will be obtained. Pavement damaged by reason of construction operations outside of the working limit of 2 feet (600 mm) from the form line specified shall be replaced by the Contractor at his/her own expense.

Portland Cement Concrete Base and Surface Courses. Portland cement concrete base or surface courses or natural cement concrete base or surface courses which are removed shall be replaced with portland cement concrete base or surface courses meeting the requirements of Sections 353 and 420, respectively, except that hand methods of consolidating and finishing will be permitted.

Brick, Granite Block and Wood Block Surface Courses. Brick, granite block or wood block surface courses which are removed shall be replaced if specified on the plans or directed by the Engineer. Whole sound brick, granite blocks or wood blocks taken from the original surface course shall be used in the replacement. If additional brick, granite blocks or wood blocks are required, the Contractor shall furnish a similar type and size to those which are being replaced. Brick, granite block or wood block surface course shall be laid on a sand or limestone screenings cushion approximately 1 inch (25 mm) thick, and shall have the joints filled with asphalt. The surface or base, may be restored to the proper elevation by use of an approved compacted bituminous material or air-entrained portland cement concrete.

Bituminous Surface and Binder Courses. Bituminous surface and binder courses which are removed shall be replaced by an equal thickness of bituminous materials meeting the requirements of Section 406. The type used shall be that which closely conforms to the type which was removed, and shall be approved in writing by the Engineer.

Gravel or Crushed Stone Base and Surface Courses. Gravel or crushed stone base and surface courses which are removed shall be replaced by an equal thickness of materials meeting the requirements of Section 351 or Section 402. The type used shall be that which closely conforms to the type which was removed and shall be approved in writing by the Engineer.

Base and Subbase Replacement. All granular or stabilized base and subbase which are removed shall be replaced with an equal compacted thickness of material which closely conforms to the original material removed and shall be compacted to the density requirements of the granular or stabilized base and subbase removed.

Disposal of Surplus Material. Surplus or waste material resulting from the removal and replacement operations shall be disposed of by and at the expense of the Contractor according to Article 202.03.

Method of Measurement. Pavement Replacement and Pavement Replacement - Surface Course, will be measured in place, and the area computed in square yards (square meters). Pavement or surface course damaged by reason of construction operations outside of the working limit of 2 feet (600 mm) from the form line specified will not be measured for payment.

Basis of Payment. This work will be paid for at the contract unit price per square yard (square meter) for Pavement Replacement or Pavement Replacement – Surface Course, which prices shall include any required earth excavation or embankment described herein.

**SPECIAL PROVISION
FOR
COOPERATION WITH UTILITIES**

This special provision amends the provisions of Article 105.07 of the Standard Specifications and includes a section clarifying the utility information provided in the plans and specifications.

105.07 - Cooperation with Utilities. Revise the last paragraph regarding (a) known Utilities to read:

"No additional compensation will be allowed for any delays, inconveniences, or damage sustained by the Contractor due to any interference from the said utility appurtenances or the operation of moving them either by the utility company or by him; or on account of any special construction methods required in prosecuting his work due to the existence of said appurtenances either in their present or relocated positions."

105.07 - Cooperation with Utilities. Delete subarticle 105.07 (b) Unknown Utilities and substitute the following:

(b) Unknown Utilities. The requirements stated above for known utilities shall apply to unknown utilities.

Examination of Plans, Specifications, Special Provisions and Site of Work.

The bidder shall, before submitting a bid, carefully examine the provisions of the contract. The bidder shall inspect in detail the site of the proposed work, investigate and become familiar with all the local conditions affecting the contract and fully acquaint themselves with the detailed requirements of construction. Submission of a bid shall be a conclusive assurance and warranty the bidder has made these examinations and the bidder understands all the requirements for the performance of the work. If his/her bid is accepted, the bidder shall be responsible for all errors in the proposal resulting from his/her failure or neglect to comply with these instructions. The Department will, in no case, be responsible for any costs, expenses, losses, or change in anticipated profits resulting from such failure or neglect of the bidder to make these examinations.

The bidder shall take no advantage of any error or omission in the proposal and advertised contract. Any prospective bidder who desires an explanation or interpretation of the plans, specification, or any of the contract documents shall request such in writing from the Department, in sufficient time to allow a written reply by the Department that can reach all prospective bidders before the submission of their bids. All information and changes made to the contract will be communicated through an addendum. Only changes made through the addendum will be binding to the Department. When the plans or special provisions include information pertaining to the location of underground utility facilities, such information represents only the opinion of the Department as to the location of such utilities and is only included for the convenience of the bidder. The Department assumes no responsibility whatever in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of underground utility facilities. It shall be the Contractor's responsibility to determine the actual location of all such facilities including field verification of both vertical and horizontal locations relative to the work. He shall also obtain from the respective utility companies detailed information relative to the location of their facilities and the working schedules of the utility companies for removing or adjusting them.

It is understood and agreed that the Contractor has considered in his bid all of the permanent and temporary utility appurtenances in their present or relocated positions. The Contractor's attention is directed to the fact that the various utility companies may be relocating and constructing facilities within the project limits concurrent with the Contractor's operations. The Contractor shall coordinate his activities with the various utility companies, at all times, and may be required to work at other locations of the improvement until relocation and construction is completed by the utility company. The Contractor is advised that the relocation times and schedules listed in the special provision "Status of Utilities to be Adjusted" are only rough estimates and no extra compensation will be allowed for delays resulting from any work performed by a utility company or for their failure to meet said relocation schedule.

P:\Special Provisions - 2012\F_Drainage 156-210\185 Cooperation with Utilities.docx

**STATUS OF UTILITIES
UTILITIES TO BE ADJUSTED
CENTER STREET
171ST STREET TO 159TH STREET
SECTION: 02-W5208-02-RP**

Name & Address Of Utility Company	Type	Estimated Date Of Completion
<p>Commonwealth Edison Company One Financial Plaza 440 S. LaSalle St., Suite 3300 Chicago, Il. 60605 Attn: Mr. James Torres (312) 394-3260 (312) 394-3259 (F) James.torres@comed.com cc: Ilyas Mohiuddin, Brad Shinabargar, Terri Bleck, Tom Mahar, Joe Stacho, Donald Ries, Joseph Leung, David Schacht</p>	<p>Total existing utility poles along the east parkway: 44</p> <p>Total of 13 poles in conflict as follows:</p> <ul style="list-style-type: none"> • Sta. 10+41, 59' RT; conflict with proposed road • Sta. 10+84, 30' RT; conflict with proposed road • Sta. 26+60, 27' RT; conflict with proposed ditch • Sta. 28+54, 27' RT; conflict with proposed ditch • Sta. 30+38, 27' RT; conflict with proposed ditch • Sta. 34+21, 27' RT; conflict with proposed road • Sta. 36+08, 30' RT; conflict with proposed road • Sta. 51+47, 29' RT; conflict with proposed ditch • Sta. 63+91, 30' RT; conflict with proposed ditch • Sta. 77+78, 28' RT; conflict with proposed ditch • Sta. 79+23, 28' RT; conflict with proposed ditch • Sta. 80+81, 28' RT; conflict with proposed ditch • Sta. 82+32, 28' RT; conflict with proposed ditch <p>Poles listed should be relocated to the existing east ROW.</p>	<p>All utility pole conflicts within the project limits will be relocated by spring of 2015.</p>
<p>AT&T 1000 Commerce Drive, Floor 2 Oak Brook, Illinois 60523 Attn: Ms. Pam Summers (630) 573-6464 (630) 573-5567 (F) Ps35211@att.com cc: Steven Larson, Stan Plodzien, Hector Garcia, Robert Elsinga, Antoinette Glover, Tom Follin, Janet Ahern</p>	<p>Buried cable at the northeast corner of 167th & Center.</p> <ul style="list-style-type: none"> • Possible conflict with roadway <p>Aerial Cable from 167th to Sta. 63+91.</p> <ul style="list-style-type: none"> • Relocation will need to be coordinated with ComEd after impacted poles are relocated at Sta. 51+47 & Sta. 63+91. <p>Aerial Fiber from Sta. 77+78 thru north end of project.</p> <ul style="list-style-type: none"> • Relocation will need to be coordinated with ComEd after impacted poles are relocated between Sta. 77+78 & Sta. 82+32. <p>Buried cable along west parkway north of Sta. 77+00.</p> <ul style="list-style-type: none"> • Possible conflict with relocated 16" water main. <p>Buried Fiber crossing at Sta. 77+78.</p> <ul style="list-style-type: none"> • Possible conflict with proposed roadway. 	<p>Underground conflicts to be relocated by spring of 2015. Aerial cable will be relocated to new ComED poles after ComED has completed relocations.</p>
<p>Nicor Gas Company 1844 Ferry Road Naperville, Illinois 60563-9600 Attn: Ms. Constance Lane (630) 388-3830 (630) 983-0639 (F) clane@aglresources.com cc: Greg Stiglic, Stan Janusz, Tim Heckman, Jeff Leifheit, Jeremy James, Eric Turner, Mike Nauman, Robert</p>	<p>4" Gas Main along the east parkway from 171st Street to the Calumet Union Drainage Ditch. Possible conflicts at the following locations:</p> <ul style="list-style-type: none"> • Sta. 17+05, 26' RT; conflict with catch basin • Sta. 20+40, 29' RT; conflict with catch basin • Sta. 22+50, 29' RT; conflict with catch basin • Sta. 25+58, 27' RT; conflict with catch basin • Sta. 28+70, 27' RT; conflict with catch basin • Sta. 30+70, 27' RT; conflict with catch basin • Sta. 33+00 to Sta. 37+50, 27' RT; conflict with 	<p>All gas main within the project limits will be relocated by spring of 2015.</p>

<p>Graham, Josh Zillak, Chris Winters, Duc Le, Tiffany Hopkins (ENE)</p>	<p>roadway/curb & gutter/catch basins</p> <ul style="list-style-type: none"> • Sta. 38+71, 29' RT; conflict with catch basin • Sta. 40+31, 28' RT; conflict with catch basin • Sta. 43+50, 29' RT; conflict with catch basin • Sta. 49+50, 30' RT; conflict with catch basin • Sta. 64+24, 29' RT; conflict with catch basin • Sta. 69+00, 29' RT; conflict with storm sewer • Sta. 72+80 to Sta. 76+00, 16.5' RT; conflict with roadway/curb & gutter/catch basins <p>2" Gas Main along the east parkway from Calumet Union Drainage Ditch thru north end of project. Possible conflicts at the following locations:</p> <ul style="list-style-type: none"> • Sta. 79+40 to Sta. 83+08, 16.5' RT; conflict with roadway/curb & gutter/catch basins 	
<p>Comcast 688 Industrial Drive Elmhurst, Illinois 60126 Attn: Mr. Robert L. Schulter (630) 600-6347 (630) 600-6390 (F) Bob_Schulter@cable.comcast.com cc: Frank Gautier, Ted Wyman, and Tom Munar</p>	<p>Aerial Cable from 167th to Sta. 60+00.</p> <ul style="list-style-type: none"> • Relocation will need to be coordinated with ComEd after impacted poles are relocated at Sta. 51+47. <p>Buried cable at 167th & Center.</p> <ul style="list-style-type: none"> • Possible conflict with roadway <p>Aerial cable at 171st Street.</p> <ul style="list-style-type: none"> • Relocation will need to be coordinated with ComEd after impacted poles are relocated at Sta. 10+41 & 10+81. 	<p>Underground conflicts to be relocated by spring of 2015. Aerial cable will be relocated to new ComED poles after ComED has completed relocations.</p>
<p>City of Harvey C/O Robinson Engineering, Ltd. 17000 S. Park Avenue South Holland, IL 60473 Attn: Ron Smith (708) 331-6700 Rufus Fisher (708) 210-5300</p>	<p>24" Water Main along the east parkway from 171st Street to Sta. 76+77.</p> <ul style="list-style-type: none"> • No conflicts anticipated. <p>16" Water Main along the east parkway from Sta. 76+77 to north project limit.</p> <ul style="list-style-type: none"> • Conflict with proposed curb & gutter, roadway, catch basins. Relocation to the west parkway included in the plans. <p>30" Water Main along the east parkway from Sta. 76+77 to Sta. 78+40 & along the west parkway from Sta. 78+40 to Sta. 83+08.</p> <ul style="list-style-type: none"> • Conflict with proposed storm sewer at Sta. 78+40. Water main relocation included in the plans. 	<p>All water main relocations are included in the plans.</p>

NOTE: All underground utilities shall be located by the Contractor prior to the start of construction. The location of the Traffic Signal Post Foundations and Handholes shall be adjusted accordingly to avoid conflict with the utilities. **Watch and Protect all utilities.**

The above represents the best information available to the County and is included for the convenience of the bidder. Utility relocation startup date is assumed to be from the date the R.O.W. is staked and permits are secured unless otherwise noted. The applicable provisions of Articles 105.07, 107.20 and 107.31 of the Standard Specifications for Road and Bridge Construction and Cook County Special Provision 117 shall apply.

The Contractor's attention is directed to the fact that the various utility companies will be relocating and constructing facilities within the project limits concurrent with the Contractor's operations. The Contractor shall coordinate his activities with the various utility companies, at all times, and may be required to work only on portions of the improvement until relocation and construction is completed. The Contractor is advised that the relocation times and schedules listed herein are only estimates provided by the utility company. No extra compensation will be allowed for delays resulting from any work performed by a utility company or for their failure to meet said relocation schedule.

NOTE: ** All Sanitary Sewer Manholes to be Adjusted shall be waterproofed in accordance with Special Provision #138 for Waterproofing Sanitary Sewer Manholes.

The Contractor should contact J.U.L.I.E. 48 hours before start of construction at 1-800-892-0123 for all utility locations.

**SPECIAL PROVISION
FOR
FIRE HYDRANTS VERTICAL ADJUSTMENT**

Description. This item consists of vertical adjustment of fire hydrants where called for on the plans or as directed by the Engineer.

Construction Methods. Where called for on the plans or as directed by the Engineer, fire hydrants with auxiliary valves shall be vertically adjusted to meet the proposed final grade.

Any fire hydrant damaged by the Contractor shall be repaired at his/her own expense.

The work shall be performed in a manner approved, written or orally, by the Engineer of the municipality, or the Water District.

Basis of Payment. This work will be paid for at the contract unit price each for Fire Hydrants Vertical Adjustment (24 IN. or Less) and Fire Hydrants Vertical Adjustment (Over 24 IN.) which price shall include all labor and materials to complete the work in accordance with the proposed plans and the special provisions.

**SPECIAL PROVISION
FOR
WATERPROOFING OF EXISTING SANITARY MANHOLES**

Description. This work shall consist of waterproofing the exterior top portion of existing sanitary manholes to prevent the infiltration of surface water into the sanitary system and shall conform to Section 602 of the Standard Specifications with the following additional requirements:

Materials and Construction. At existing sanitary manholes to be adjusted, and/or reconstructed, the contractor shall expose a maximum of 12 inches of the cone section and remove the frame and any adjusting rings.

The existing manhole frame and concrete adjusting rings shall be separated from the cone and each other. Care shall be taken to prevent damage to the concrete rings and frame while removing the mortar adhering to the rings and frame.

Once final grade is established, the concrete adjusting rings shall be reset in either a 3/8 inch thick bituminous mastic bed or a 1/4 inch thick bed of redi-seal asphalt compound or an approved equal.

The frame shall be set on either a 3/8 inch thick bituminous plastic bed or two side by side courses of 1 inch rope butyl gasket material or an approved equal.

A 3/8 inch layer of bituminous mastic shall be applied to the outside of the concrete adjusting rings and/or frame making sure to completely cover the external surfaces with mastic. The mastic should extend 6 inch to 12 inch below the top of the cone section.

A sheet of polyvinyl chloride with a minimum thickness of 8 mils or E-Z wrap rubber or equivalent shall be set into the outside mastic material making sure the plastic sheet or wrap rubber is held securely to the frame and cone with polywrap tape before backfilling.

Basis of Payment. This work will be paid for at the contract unit price per each for Waterproofing Existing Sanitary Manholes to be Adjusted; Waterproofing Existing Sanitary Manholes to be Reconstructed; Waterproofing Sanitary Manholes to be Reconstructed, Special; Waterproofing Sanitary Frames and Lids to be Adjusted; or Waterproofing Sanitary Frames and Lids to be Adjusted, Special.

**SPECIAL PROVISION
FOR
CLEANING EXISTING MANHOLES, CATCH BASINS, OR INLETS
CLEANING EXISTING STORM SEWERS AND PIPE CULVERTS**

Description. Items for Cleaning of Existing Manholes, Catch Basins, Inlets, Storm Sewers, or Pipe Culverts are included in the Summary of Quantities and are to be used at the direction of the Engineer. The Manholes, Catch Basins, Inlets, Storm Sewers or Pipe Culverts shall be cleaned of silt, debris or other foreign matter of any kind and will be free from such accumulation at the time of final inspection. The accumulations shall be removed from the job site and disposed of in a manner meeting appropriate regulations.

Basis of Payment. This work shall be paid for at the contract unit price each for Cleaning Existing Manholes, Cleaning Existing Catch Basins, Cleaning Existing Inlets and/or per foot of Cleaning Existing Storm Sewers Or Cleaning Existing Pipe Culverts of the length and diameter specified. The cost shall include all labor, materials and disposal cost for removal of accumulations from the job site.

**SPECIAL PROVISION
FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
REQUIREMENTS**

Description. This project will result in a disturbance of one or more acres of total land area and will require compliance with the National Pollutant Discharge Elimination System (NPDES) Storm Water Permit.

The Cook County Department of Transportation and Highways is the permittee, and all Contractors and Subcontractors involved in any soil disturbing activities will be required to confirm that they understand and will comply with all requirements of the permit by signing a Contractors Certification Statement. The Contractor shall adhere to the plans and complete required documents throughout construction. Documents are attached as part of this Special Provision.

A Storm Water Pollution Prevention Plan (SWPPP) shall be designed by the permittee and included in the project plans to be cooperatively implemented and updated by the Resident Engineer and Contractor for this project using good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges. In addition, the plan shall describe and ensure the implementation of best management practices (BMPs) which will be used to reduce the pollutants in storm water discharges associated with this project and assure compliance with the terms and conditions of the Storm Water Permit. Such practices may include mulching, geotextiles, silt fences, sediment traps, storm drain inlet protection and several others mentioned in the permit. The installation of these devices may be subject to Section 404 of the Clean Water Act. The plan will be signed by the County Superintendent of Transportation and Highways and retained on-site.

A Sediment and Erosion Control Inspection Report will be completed once a week and after every ½ inch rainfall (5 inch snowfall event) by the Resident Engineer. All directions to the Contractor for required repairs/maintenance/installation of erosion and sediment control or any other necessary BMPs will be included in the report. The Contractor will sign the report to confirm his/her receipt of a copy.

If any required repairs/maintenance/installation of sediment and erosion control or any other BMPs are not completed by the Contractor or Subcontractors within the time specified by the Engineer (time will vary from 1/2 hour to 1 week based on the urgency of the situation and the nature of the deficiency. The Engineer will be the sole judge), the Resident Engineer shall complete and submit an Incidence of Non-compliance (ION) form to the Illinois Environmental Protection Agency.

Basis of Payment. Temporary erosion control items have been included in the Summary of Quantities. Additional items not included in the Summary of Quantities, but deemed necessary by the Resident Engineer to fulfill the requirements of the NPDES Permit and this Special Provision will be paid for according to Article 109.04 of the State Standard Specifications for Road and Bridge Construction.

Following is the list of documents that comprise the Special Provision for NPDES:

Permit Coverage Letter – Ilr40085 (1 Page)
General NPDES Permit Ilr40 (2 Pages)
General NPDES Permit Ilr10 (10 Pages)
Notice of Intent (3 pages) – Do not send fee – send form only as notification to IEPA.
Notice of Termination (2 pages) – Send form to IEPA at end of construction.
IEPA Incidence of Non-Compliance Form (1 Page)
Contractor Certification Statement (1 Page)
Erosion and Sediment Control Inspection Checklist (1 Page)
Erosion/Sediment Control Inspection Report (1 Page)
Storm Water Pollution Plan Signed by Superintendent (5 Pages)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. Box 19276, SPRINGFIELD, ILLINOIS 62794-9276, 217-782-3397
 JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601, 312-814-6026

217/782 -0610

ROD R. BLAGOJEVICH, GOVERNOR

RENEE CIPRIANO, DIRECTOR

2/9/20

COOK COUNTY HIGHWAY DEPT
 69 W WASHINGTON ST STE 2100
 CHICAGO, IL 60602

Re: Cook County Highway Dept - Municipal Separate Storm
 Sewer System NPDES Permit No. ILR400485 County: Cook
 Notice of Coverage Under General Permit

Dear NPDES Permittee:

We have received your Notice of Intent and have determined that storm water discharges from your municipal separate storm sewer system are appropriately covered by the attached NPDES general permit issued by the Agency.

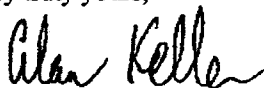
The permit as issued covers Notice of Intent requirements, storm water management programs, and monitoring, recordkeeping and reporting requirements. Attached is an Annual Inspection Form that you must complete and submit to the Agency by the first day of June for each year that this permit is in effect.

Failure to meet any portion of the permit could result in civil and/or criminal penalties. The Agency is ready and willing to assist you in interpreting any of the conditions of the permit as they relate to your municipal separate storm sewer system.

Your municipal storm sewer system was automatically covered by this permit 30 days after your Notice of Intent application pursuant to the General Storm Water Permit for MS4's, Part I. Coverage Under This Permit, D. 3. The Agency realizes that you may have implemented part of your program, however, we have reviewed your application for any deficiencies and applicability of the general permit versus an individual permit. The final determination is that the general permit is applicable to your system.

This letter shows your permit number below your name. Please reference this number in all future correspondence. Should you have any questions concerning the permit, please contact the Permit Section at (217) 782-0610.

Very truly yours,



Alan Keller, P. E.
 Manager, Permit Section
 Division of Water Pollution Control

Enclosure

AK:MED:\MS4 Coverage Letter

cc: Records Unit Des Plaines

Rockrod Rd P0221 North Main Street, Rockford, IL 61103 - (815) 987-7760 • DES PLAINES-9511 W. Harrison St., Des Plaines, IL 60016 - (847) 294-4000 ELGIN- 595 South State, Elgin, IL 60123 - (847) 608-3131 • PEORIA- 5415 N. University St., Peoria, IL 61614 - (309) 693-5463
 BUREAU OF LAND - PEORIA- 7620 N. University St., Peoria, IL 61614 - (309) 693-5462 • CHAMPAIGN - 2125 South First Street, Champaign, IL 61820 - (217) 278-58C SPRINGFIELD- 4500S. Sixth Street Rd., Springfield, IL 62706 - (217) 786-6892 • COLLINSVILLE- 2009 Mall Street, Collinsville, IL 62234 - (618) 346-5120 MARION - 2309 W. Main St., Suite 116, Marion, IL 62959 - (618) 993-7200C

General NPDES Permit No. ILR40

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand East
P.O. Box 19278
Springfield, Illinois 62794-9278

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**General NPDES Permit
For
Discharges from Small Municipal Separate Storm Sewer Systems****Expiration Date: March 31, 2014****Issue Date: February 20, 2009****Effective Date: April 1, 2009**

In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, the following discharges may be authorized by this permit in accordance with the conditions herein:

Discharges of only storm water from small municipal separate storm sewer systems, as defined and limited herein. Storm water means storm water runoff, snow melt runoff, and surface runoff and drainage.

Receiving waters: Discharges may be authorized to any surface water of the State.

To receive authorization to discharge under this general permit, a facility operator must submit an application as described in the permit conditions to the Illinois Environmental Protection Agency. Authorization, if granted, will be by letter and include a copy of this permit.



Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

ILR40.wpd

CONTENTS OF THIS GENERAL PERMIT

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ATTACHMENT H. STANDARD CONDITIONS.....	Page 12

PART I. COVERAGE UNDER THIS PERMIT**A. Permit Area**

This permit covers all areas of the State of Illinois.

B. Eligibility

- This permit authorizes discharges of storm water from small municipal separate storm sewer systems (MS4s) as defined in 40 CFR 122.26(b)(16) as designated for permit authorization pursuant to 40 CFR 122.32.
- This permit authorizes the following non-storm water discharges provided they have been determined not to be substantial contributors of pollutants to a particular small MS4 applying for coverage under this permit:
 - water line and fire hydrant flushing,
 - landscape irrigation water,
 - rising ground waters,
 - ground water infiltration,
 - pumped ground water,
 - discharges from potable water sources, (excluding wastewater discharges from water supply treatment plants)
 - foundation drains,
 - air conditioning condensate,
 - irrigation water, (except for wastewater irrigation),
 - springs,
 - water from crawl space pumps,
 - footing drains,
 - storm sewer cleaning water,
 - water from individual residential car washing,
 - routine external building washdown which does not use detergents,
 - flows from riparian habitats and wetlands,
 - dechlorinated pH neutral swimming pool discharges,
 - residual street wash water,
 - discharges or flows from fire fighting activities
 - dechlorinated water reservoir discharges, and
 - pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed).
- Any municipality covered by this general permit is also granted automatic coverage under Permit No. ILR10 for the discharge of storm water associated with construction site activities for municipal construction projects disturbing one acre or more. The permittee is granted automatic coverage 30 days after Agency receipt of a Notice of Intent to Discharge Storm Water from Construction Site Activities from the permittee. The Agency will provide public notification of the construction site activity and assign a unique permit number for each project during this period. The permittee shall comply with all the requirements of Permit ILR10 for all such construction projects.

C. Limitations on Coverage

The following discharges are not authorized by this permit:

General NPDES Permit No. ILR10

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 1021 North Grand Avenue East
 Post Office Box 19276
 Springfield, Illinois 62794-9276
www.epa.state.il.us

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

General NPDES Permit
 For
 Storm Water Discharges From Construction Site Activities

Expiration Date: July 31, 2013

Issue Date: August 11, 2008

Effective Date: August 11, 2008

In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter I), and the Clean Water Act, and the regulations thereunder the following discharges are authorized by this permit in accordance with the conditions and attachments herein.



Alan Keller, P.E.
 Manager, Permit Section
 Division of Water Pollution Control

Part I. COVERAGE UNDER THIS PERMIT

- A. **Permit Area.** The permit covers all areas of the State of Illinois with discharges to any waters of the State.
- B. **Eligibility.**

1. This permit shall authorize all discharges of storm water associated with industrial activity from construction sites that will result in the disturbance of one or more acres total land area, construction sites less than one acre of total land that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb one or more acres total land area. This permit also authorizes discharges from construction sites designated by the Agency that have the potential for contribution to a violation of water quality standards or significant contribution of pollutants to waters of the State, occurring after the effective date of this permit (including discharges occurring after the effective date of this permit are also authorized by this permit, except for discharges identified under Part I.B.3 (Limitations on Coverage).
2. This permit may only authorize a storm water discharge associated with industrial activity from a construction site that is mixed with a storm water discharge from an industrial source other than construction, where:
 - a. the industrial source other than construction is located on the same site as the construction activity;
 - b. storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and
 - c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants and dedicated concrete plants) are covered by a different NPDES general permit or individual permit authorizing such discharges.
3. **Limitations on Coverage.** The following storm water discharges from construction sites are not authorized by this permit:
 - a. storm water discharges associated with industrial activity that originate from the site after construction activities have been completed and the site has undergone final stabilization;

- b. discharges that are mixed with sources of non-storm water other than discharges identified in Part III.A (Prohibition on Non-Storm Water Discharges) of this permit and in compliance with paragraph IV.D.5 (Non-Storm Water Discharges) of this permit;
- c. storm water discharges associated with industrial activity that are subject to an existing NPDES individual or general permit or which are issued a permit in accordance with Part VI.N (Requiring an Individual Permit or an Alternative General Permit) of this permit. Such discharges may be authorized under this permit after an existing permit expires provided the existing permit did not establish numeric limitations for such discharges;
- d. storm water discharges from construction sites that the Agency has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard; and
- e. Storm water discharges that the Agency, at its discretion, determines are not appropriately authorized or controlled by this general permit.
- f. Storm water discharges to any receiving water specified under 35 Ill. Adm. Code 302.105(d)(6).

C. Authorization.

1. In order for storm water discharges from construction sites to be authorized to discharge under this general permit a discharger must submit a Notice of Intent (NOI) in accordance with the requirements of Part II below, using an NOI form provided by the Agency.
2. Where a new contractor is selected after the submittal of an NOI under Part II below, a new Notice of Intent (NOI) must be submitted by the owner in accordance with Part II.
3. For projects that have complied with State law on historic preservation and endangered species prior to submittal of the NOI, through coordination with the Illinois Historic Preservation Agency and the Illinois Department of Natural Resources or through fulfillment of the terms of interagency agreements with those agencies, the NOI shall indicate that such compliance has occurred.
4. Unless notified by the Agency to the contrary, dischargers who submit an NOI in accordance with the requirements of this permit are authorized to discharge storm water from construction sites under the terms and conditions of this permit in 30 days after the date the NOI is received by the Agency.
5. The Agency may deny coverage under this permit and require submittal of an application for an individual NPDES permit based on a review of the NOI or other information.

Part II. NOTICE OF INTENT REQUIREMENTS

A. Deadlines for Notification.

1. To receive authorization under this general permit, a discharger must submit a completed Notice of Intent (NOI) in accordance with Part VI.G (Signatory Requirements) and the requirements of this Part in sufficient time to allow a 30 day review period after the receipt of the NOI by the Agency and the start of construction. The completed NOI may be submitted electronically to the following email address:
epa.constit10swppp@illinois.gov
2. Discharges that were previously covered by a valid General NPDES Permit for Storm Water Discharges from Construction Site Activities are automatically covered by this permit.
3. A discharger may submit an NOI in accordance with the requirements of this Part after the start of construction. In such instances, the Agency may bring an enforcement action for any discharges of storm water associated with industrial activity from a construction site that have occurred on or after the start of construction.

B. Failure to Notify. Dischargers who fail to notify the Agency of their intent to be covered, and discharge storm water associated with construction site activity to Waters of the State without an NPDES permit, are in violation of the Environmental Protection Act and Clean Water Act.

C. Contents of Notice of Intent. The Notice of Intent shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit by all of the entities identified in paragraph 2 below and shall include the following information:

1. The mailing address, and location of the construction site for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of the latitude and longitude of the approximate center of the facility to the nearest 15 seconds, or the nearest quarter section (if the section, township and range is provided) that the construction site is located in;
2. The owner's name, address, telephone number, and status as Federal, State, private, public or other entity;
3. The name, address and telephone number of the general contractor(s) that have been identified at the time of the NOI submittal;
4. The name of the receiving water(s), or if the discharge is through a municipal separate storm sewer, the name of the municipal operator of the storm sewer and the ultimate receiving water(s);
5. The number of any NPDES permit for any discharge (including non-storm water discharges) from the site that is currently authorized by an NPDES permit;

6. A description of the project, detailing the complete scope of the project, estimated timetable for major activities and an estimate of the number of acres of the site on which soil will be disturbed; and
7. An electronic copy of the storm water pollution prevention plan that has been prepared for the site in accordance with Part IV of this permit. The electronic copy shall be submitted to the Agency at the following email address: epa.constri10swppp@illinois.gov

D. Where to Submit.

1. Facilities which discharge storm water associated with construction site activity must use an NOI form provided by the Agency. NOIs must be signed in accordance with Part VI.G (Signatory Requirements) of this permit. NOIs and the applicable fee for construction site activities are to be submitted by certified mail to the Agency at the following address:

Illinois Environmental Protection Agency
 Division of Water Pollution Control, Mail Code #15
 Attention: Permit Section
 1021 North Grand Avenue East
 Post Office Box 19276
 Springfield, Illinois 62794-9276

The completed NOI and SWPPP may be submitted electronically to the following email address: epa.constri10swppp@illinois.gov

2. A copy of the letter of notification of coverage along with the General NPDES Permit for Storm Water Discharges from Construction Site Activities, or other indication that storm water discharges from the site are covered under an NPDES permit shall be posted at the site in a prominent place for public viewing (such as alongside a building permit).
- E. Additional Notification.** Facilities which are operating under approved local sediment and erosion plans, grading plans, or storm water management plans, in addition to filing copies of the Notice of Intent in accordance with Part D above, shall also submit signed copies of the Notice of Intent to the local agency approving such plans in accordance with the deadlines in Part A above. See Part IV.D.2.d (Approved State or Local Plans).
- F. Notice of Termination.** Where a site has been finally stabilized and all storm water discharges from construction sites that are authorized by this permit are eliminated, the permittee of the facility must submit a completed Notice of Termination that is signed in accordance with Part VI.G (Signatory Requirements) of this permit.

1. The Notice of Termination shall include the following information:

- a. The mailing address, and location of the construction site for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of the latitude and longitude of the approximate center of the facility to the nearest 15 seconds, or the nearest quarter section (if the section, township and range is provided) that the construction site is located in;
- b. The owner's name, address, telephone number, and status as Federal, State, private, public or other entity;
- c. The name, address and telephone number of the general contractor(s); and
- d. The following certification signed in accordance with Part VI.G (Signatory Requirements) of this permit:

"I certify under penalty of law that all storm water discharges associated with construction site activity from the identified facility that are authorized by NPDES general permit ILR10 have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with construction site activity by the general permit, and that discharging pollutants in storm water associated with construction site activity to Waters of the State is unlawful under the Environmental Protection Act and Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act."

For the purposes of this certification, elimination of storm water discharges associated with industrial activity means that all disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have otherwise been eliminated.

2. All Notices of Termination are to be sent to the Agency to the mailing address in Part II.D.1, using the form provided by the Agency.

Part III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, AND OTHER NON-NUMERIC LIMITATIONS

A. Prohibition on Non-Storm Water Discharges.

1. Except as provided in Part I paragraph B.2 and paragraph 2 below, all discharges covered by this permit shall be composed entirely of storm water;
2. a. Except as provided in paragraph b below, discharges of materials other than storm water must be in compliance with a NPDES permit (other than this permit) issued for the discharge.

- b. The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharges is in compliance with Part IV.D.5 (Non-Storm Water Discharges): discharges from fire fighting activities; fire hydrant flushings; waters used to wash vehicles where detergents are not used; waters used to control dust; potable water sources including uncontaminated waterline flushings; landscape irrigation drainages; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; uncontaminated air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.

B. Discharges Into Receiving Waters With an Approved Total Maximum Daily Load (TMDL):

Discharges to waters for which there is a TMDL allocation for sediment or a parameter that addressed sediment (such as total suspended solids, turbidity, or siltation) are not eligible for coverage under this permit unless you develop and certify a SWPPP that is consistent with the assumptions and requirements in the approved TMDL. To be eligible for coverage under this general permit, operators must incorporate into their SWPPP any conditions applicable to their discharges necessary for consistency with the assumptions and requirements of the TMDL within any timeframes established in the TMDL. If a specific numeric waste load allocation has been established that would apply to the project's discharges, the operator must incorporate that allocation into its SWPPP and implement necessary steps to meet that allocation. Please refer to the Agency website at: <http://www.epa.state.il.us/water/tmdl/report-status.html>

- C. Discharges covered by this permit, alone or in combination with other sources, shall not cause or contribute to a violation of any applicable water quality standard.

Part IV. STORM WATER POLLUTION PREVENTION PLANS

A storm water pollution prevention plan shall be developed for each construction site covered by this permit. Storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with construction site activity from the facility. In addition, the plan shall describe and ensure the implementation of best management practices which will be used to reduce the pollutants in storm water discharges associated with construction site activity and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the storm water pollution prevention plan required under this part as a condition of this permit.

A. Deadlines for Plan Preparation and Compliance.

The plan shall:

1. Be completed prior to the start of the construction to be covered under this permit and submitted electronically to the Agency; and
2. Provide for compliance with the terms and schedule of the plan beginning with the initiation of construction activities.

B. Signature, Plan Review and Notification.

1. The plan shall be signed in accordance with Part VI.G (Signatory Requirements), and be retained on-site at the facility which generates the storm water discharge in accordance with Part VI.E (Duty to Provide Information) of this permit.
2. Prior to commencement of construction, the permittee shall provide the plan to the Agency. Said plan shall be available at the site.
3. The permittee shall make plans available upon request from this Agency or a local agency approving sediment and erosion plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system.
4. The Agency may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. Such notification shall identify those provisions of the permit which are not being met by the plan, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this part. Within 7 days from receipt of notification from the Agency, the permittee shall make the required changes to the plan and shall submit to the Agency a written certification that the requested changes have been made. Failure to comply shall terminate authorization under this permit.
5. All storm water pollution prevention plans and all completed inspection forms/reports required under this permit are considered reports that shall be available to the public at any reasonable time upon request. However, the permittee may claim any portion of a storm water pollution prevention plan as confidential in accordance with 40 CFR Part 2.

- C. **Keeping Plans Current.** The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to Waters of the State and which has not otherwise been addressed in the plan or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under paragraph D.2 below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the plan shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the storm water pollution prevention plan. Amendments to the plan may be reviewed by the Agency in the same manner as Part IV.B above. Any revisions of the documents for the storm water pollution prevention plan shall be kept on site at all times.

D. Contents of Plan. The storm water pollution prevention plan shall include the following items:

1. **Site Description.** Each plan shall, provide a description of the following:
 - a. A description of the nature of the construction activity or demolition work;

- b. A description of the intended sequence of major activities which disturb soils for major portions of the site (e.g. clearing, grubbing, excavation, grading);
 - c. An estimate of the total area of the site and the total area of the site that is expected to be disturbed by excavation, grading, or other activities;
 - d. An estimate of the runoff coefficient of the site after construction activities are completed and existing data describing the soil or the quality of any discharge from the site;
 - e. A site map indicating drainage patterns and approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking, areas of soil disturbance, the location of major structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water; and
 - f. The name of the receiving water(s) and the ultimate receiving water(s), and areal extent of wetland acreage at the site.
2. **Controls.** Each plan shall include a description of appropriate controls that will be implemented at the construction site. The Illinois Urban Manual (<http://www.il.nrcs.usda.gov/technical/engineer/urban/index.html>) or other similar documents shall be used for developing the appropriate management practices, controls or revisions of the plan. The plan will clearly describe for each major activity identified in paragraph D.1 above, appropriate controls and the timing during the construction process that the controls will be implemented. (For example, perimeter controls for one portion of the site will be installed after the clearing and grubbing necessary for installation of the measure, but before the clearing and grubbing for the remaining portions of the site. Perimeter controls will be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Temporary perimeter controls will be removed after final stabilization). The description of controls shall address as appropriate the following minimum components:
- a. **Erosion and Sediment Controls.**
 - (i) **Stabilization Practices.** A description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where practicable and that disturbed portions of the site are stabilized. Stabilization practices may include: temporarily seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, staged or staggered development, and other appropriate measures. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in the plan. Except as provided in paragraphs (A) and (B) below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased as follows:
 - (A) Where the initiation of stabilization measures by the 7th day after construction activity temporarily or permanently ceases on a portion of the site is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
 - (B) Where construction activity will resume on a portion of the site within 14 days from when activities ceased, (e.g. the total time period that construction activity is temporarily ceased is less than 14 days) then stabilization measures do not have to be initiated on that portion of site by the 7th day after construction activity temporarily ceased.
 - (ii) **Structural Practices.** A description of structural practices utilized to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree practicable. The installation of these devices may be subject to Section 404 of the CWA.
 - (iii) **Best Management Practices for Impaired Waters.** For any site which discharges directly to an impaired water identified on the Agency's website for 303(d) listing for suspended solids, turbidity, or siltation the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations or the Illinois Environmental Protection Agency's Illinois Urban Manual, the storm water pollution prevention plan shall adhere to a more restrictive design criteria. Please refer to the Agency's website at: (<http://www.epa.state.il.us/water/mdl/303d-list.html>)
 - b. **Storm Water Management.** A description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. Structural measures should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. Permittees are responsible for only the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with industrial activity have been eliminated from the site.
 - (i) Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). The storm water pollution prevention plan shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed predevelopment levels.
 - (ii) Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are

maintained and protected (e.g. maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

- (iii) Unless otherwise specified in the Illinois Environmental Protection Agency's Illinois Urban Manual, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

c. **Other Controls.**

- (i) **Waste Disposal.** No solid materials, including building materials, shall be discharged to Waters of the State, except as authorized by a Section 404 permit.
- (ii) The plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- (iii) For construction sites that receive concrete or asphalt from off site locations, the plan must identify and include appropriate controls and measures to reduce or eliminate these discharges.

d. **Approved State or Local Plans.**

- (i) The management practices, controls and other provisions contained in the storm water pollution prevention plan must be at least as protective as the requirements contained in Illinois Environmental Protection Agency's Illinois Urban Manual, 2002. Facilities which discharge storm water associated with construction site activities must include in their storm water pollution prevention plan procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials. Requirements specified in sediment and erosion site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit. The plans shall include all requirements of this permit and include more stringent standards required by any local approval. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for the construction site.
- (ii) Dischargers seeking alternative permit requirements are not authorized by this permit and shall submit an individual permit application in accordance with 40 CFR 122.26 at the address indicated in Part II.D (Where to Submit) of this permit, along with a description of why requirements in approved local plans or permits should not be applicable as a condition of an NPDES permit.

3. **Maintenance.** The plan shall include a description of procedures to maintain in good and effective operating conditions vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

4. **Inspections.** Qualified personnel (provided by the permittee) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall. Qualified personnel means a person knowledgeable in the principles and practices of erosion and sediment controls measures, such as a licensed Professional Engineer (P.E.), a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Erosion Sediment and Storm Water Inspector (CESSWI) or other knowledgeable person who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction activities.

- a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- b. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with Part IV.D.1 (Site Description) of this permit and pollution prevention measures identified in the plan in accordance with Part IV.D.2 (Controls) of this permit shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.
- c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the permit coverage expires or is terminated. All inspection reports shall be retained at the construction site. The report shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit.
- d. The permittee shall notify the appropriate Agency Field Operations Section office by email at epa.swnoncomp@illinois.gov, telephone or fax within 24 hours of any incidence of noncompliance for any violation of the storm water pollution prevention plan observed during any inspection conducted, or for violations of any condition of this permit. The permittee shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the storm water pollution prevention plan observed during any inspection conducted, or for violations of any condition of this permit. Submission shall be on forms provided by the Agency and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.
- e. All reports of noncompliance shall be signed by a responsible authority as defined in Part VI.G (Signatory Requirements).

- f. After the initial contact has been made with the appropriate Agency Field Operations Section Office, all reports of noncompliance shall be mailed to the Agency at the following address:

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 Compliance Assurance Section
 1021 North Grand Avenue East
 Post Office Box 19276
 Springfield, Illinois 62794-9276

5. **Non-Storm Water Discharges.** Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2 of this permit that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and insure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.
- E. **Additional requirements for storm water discharges from industrial activities other than construction, including dedicated asphalt plants, and dedicated concrete plants.** This permit may only authorize any storm water discharge associated with industrial activity from a construction site that is mixed with a storm water discharge from an industrial source other than construction, where:
1. The industrial source other than construction is located on the same site as the construction activity;
 2. Storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and
 3. Storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants (other than asphalt emulsion facilities) and dedicated concrete plants) are in compliance with the terms, including applicable NOI or application requirements, of a different NPDES general permit or individual permit authorizing such discharges.
- F. **Contractors.**

1. The storm water pollution prevention plan must clearly identify for each measure identified in the plan, the contractor(s) or subcontractor(s) that will implement the measure. All contractors and subcontractors identified in the plan must sign a copy of the certification statement in paragraph 2 below in accordance with Part VI.G (Signatory Requirements) of this permit. All certifications must be included in the storm water pollution prevention plan except for owners that are acting as contractors.
2. **Certification Statement.** All contractors and subcontractors identified in a storm water pollution prevention plan in accordance with paragraph 1 above shall sign a copy of the following certification statement before conducting any professional service at the site identified in the storm water pollution prevention plan:

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

The certification must include the name and title of the person providing the signature in accordance with Part VI.G of this permit; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

Part V. RETENTION OF RECORDS

- A. The permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at least three years from the date that the permit coverage expires or is terminated. This period may be extended by request of the Agency at any time.
- B. The permittee shall retain a copy of the storm water pollution prevention plan and any revisions to said plan required by this permit at the construction site from the date of project initiation to the date of final stabilization.

Part VI. STANDARD PERMIT CONDITIONS

- A. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Illinois Environmental Protection Act and the CWA and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- B. **Continuation of the Expired General Permit.** This permit expires five years from the date of issuance. An expired general permit continues in force and effect until a new general permit or an individual permit is issued. Only those facilities authorized to discharge under the expiring general permit are covered by the continued permit.
- C. **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

- E. Duty to Provide Information.** The permittee shall furnish within a reasonable time to the Agency or local agency approving sediment and erosion control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system, any information which is requested to determine compliance with this permit. Upon request, the permittee shall also furnish to the Agency or local agency approving sediment and erosion control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system, copies of all records required to be kept by this permit.
- F. Other Information.** When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the Agency, he or she shall promptly submit such facts or information.
- G. Signatory Requirements.** All Notices of Intent, storm water pollution prevention plans, reports, certifications or information either submitted to the Agency or the operator of a large or medium municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed.
1. All Notices of Intent shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (2) any person authorized to sign documents that has been assigned or delegated said authority in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
 2. All reports required by the permit and other information requested by the Agency shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above and submitted to the Agency.
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
 - c. **Changes to Authorization.** If an authorization under Part I.C (Authorization) is no longer accurate because a different individual or position has responsibility for the overall operation of the construction site, a new authorization satisfying the requirements of Part I.C must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.
 - d. **Certification.** Any person signing documents under this Part shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
- H. Penalties for Falsification of Reports.** Section 309(c)(4) of the Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or by both. Section 44(j)(4) and (5) of the Environmental Protection Act provides that any person who knowingly makes any false statement, representation, or certification in an application form, or form pertaining to a NPDES permit commits a Class A misdemeanor, and in addition to any other penalties provided by law is subject to a fine not to exceed \$10,000 for each day of violation.
- I. Penalties for Falsification of Monitoring Systems.** The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by fines and imprisonment described in Section 309 of the CWA. The Environmental Protection Act provides that any person who knowingly renders inaccurate any monitoring device or record required in connection with any NPDES permit or with any discharge which is subject to the provisions of subsection (f) of Section 12 of the Act commits a Class A misdemeanor, and in addition to any other penalties provided by law is subject to a fine not to exceed \$10,000 for each day of violation.
- J. Oil and Hazardous Substance Liability.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the CWA.
- K. Property Rights.** The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- L. Severability.** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

M. Transfers. This permit is not transferable to any person except after notice to the Agency. The Agency may require the discharger to apply for and obtain an individual NPDES permit as stated in Part I.C (Authorization).

N. Requiring an Individual Permit or an Alternative General Permit.

1. The Agency may require any person authorized by this permit to apply for and/or obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Agency to take action under this paragraph. Where the Agency requires a discharger authorized to discharge under this permit to apply for an individual NPDES permit, the Agency shall notify the discharger in writing that a permit application is required. This notification shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the discharger to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. Applications shall be submitted to the Agency indicated in Part II.D (Where to Submit) of this permit. The Agency may grant additional time to submit the application upon request of the applicant. If a discharger fails to submit in a timely manner an individual NPDES permit application as required by the Agency under this paragraph, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified by the Agency for application submittal. The Agency may require an individual NPDES permit based on:

- a. information received which indicates the receiving water may be of particular biological significance pursuant to 35 Ill. Adm. Code 302.105(d)(6);
- b. whether the receiving waters are impaired waters for suspended solids, turbidity or siltation as identified by the Agency's 303(d) listing;
- c. size of construction site, proximity of site to the receiving stream, etc.

The Agency may also require monitoring of any storm water discharge from any site to determine whether an individual permit is required.

2. Any discharger authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. In such cases, the permittee shall submit an individual application in accordance with the requirements of 40 CFR 122.26(c)(1)(ii), with reasons supporting the request, to the Agency at the address indicated in Part II.D (Where to Submit) of this permit. The request may be granted by issuance of any individual permit or an alternative general permit if the reasons cited by the permittee are adequate to support the request.

3. When an individual NPDES permit is issued to a discharger otherwise subject to this permit, or the discharger is authorized to discharge under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to a discharger otherwise subject to this permit, or the discharger is denied for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee remains in effect, unless otherwise specified by the Agency.

O. State/Environmental Laws. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

P. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of storm water pollution prevention plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

Q. Inspection and Entry. The permittee shall allow the IEPA, or an authorized representative upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

R. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Part VII. REOPENER CLAUSE

A. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with industrial activity covered by this permit, the discharger may be required to obtain an individual permit or an alternative general permit in accordance with Part I.C (Authorization) of this permit or the permit may be modified to include different limitations and/or requirements.

B. Permit modification or revocation will be conducted according to provisions of 35 Ill. Adm. Code, Subtitle C, Chapter I and the provisions of 40 CFR 122.62, 122.63, 122.64 and 124.5 and any other applicable public participation procedures.

C. The Agency will reopen and modify this permit under the following circumstances:

1. the U.S. EPA amends its regulations concerning public participation;
2. a court of competent jurisdiction binding in the State of Illinois or the 7th Circuit Court of Appeals issues an order necessitating a modification of public participation for general permits; or
3. to incorporate federally required modifications to the substantive requirements of this permit.

Part VIII. DEFINITIONS

"Agency" means the Illinois Environmental Protection Agency.

"Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control construction site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"Commencement of Construction or Demolition Activities" The initial disturbance of soils associated with clearing, grading, or excavating activities or other construction or demolition activities.

"CWA" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. (96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et seq.).

"Dedicated portable asphalt plant" A portable asphalt plant that is located on or contiguous to a construction site and that provides asphalt only to the construction site that the plant is located on or adjacent to. The term dedicated portable asphalt plant does not include facilities that are subject to the asphalt emulsion effluent limitation guideline at 40 CFR 443.

"Dedicated portable concrete plant" A portable concrete plant that is located on or contiguous to a construction site and that provides concrete only to the construction site that the plant is located on or adjacent to.

"Dedicated sand or gravel operation" An operation that produces sand and/or gravel for a single construction project.

"Director" means the Director of the Illinois Environmental Protection Agency or an authorized representative.

"Final Stabilization" means that all soil disturbing activities at the site have been completed, and either of the two following conditions are met:

- (i) A uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
- (ii) Equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

For individual lots in residential construction, final stabilization means that either:

- (i) The homebuilder has completed final stabilization as specified above, or
- (ii) The homebuilder has established temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for, and benefits of, final stabilization.

"Large and Medium municipal separate storm sewer system" means all municipal separate storm sewers that are either:

- (i) Located in an incorporated place (city) with a population of 100,000 or more as determined by the latest Decennial Census by the Bureau of Census (these cities are listed in Appendices F and G of 40 CFR Part 122); or
- (ii) Located in the counties with unincorporated urbanized populations of 100,000 or more, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties (these counties are listed in Appendices H and I of 40 CFR Part 122); or
- (iii) Owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the large or medium municipal separate storm sewer system.

"NOI" means notice of intent to be covered by this permit (see Part II of this permit).

"Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

"Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

"Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

"Storm Water Associated with Industrial Activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program. For the categories of industries identified in subparagraphs (i) through (x) of this subsection, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the categories of industries identified in subparagraph (xi), the term includes only storm water discharges from all areas listed in the previous sentence (except access roads) where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally or municipally owned or operated that meet the description of the facilities listed in this paragraph (i)-(xi)) include those facilities designated under 40 CFR 122.26(a)(1)(v). The following categories of facilities are considered to be engaging in "industrial activity" for purposes of this subsection:

- (i) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi) of this paragraph);
- (ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28, 29, 311, 32, 33, 3441, 373;
- (iii) Facilities classified as Standard Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations meeting the definition of a reclamation area under 40 CFR 434.11(f)) and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/operator;
- (iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA;
- (v) Landfills, land application sites, and open dumps that have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;
- (vi) Facilities involved in the recycling of materials, including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as Standard Industrial Classification 5015 and 5093;
- (vii) Steam electric power generating facilities, including coal handling sites;
- (viii) Transportation facilities classified as Standard Industrial Classifications 40, 41, 42, 44, and 45 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under subparagraphs (i)-(vii) or (ix)-(xi) of this subsection are associated with industrial activity;
- (ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with 40 CFR 503;
- (x) Construction activity including clearing, grading and excavation activities except operations that result in the disturbance of less than one acre of total land area which are not part of a larger common plan of development or sale unless otherwise designated by the Agency pursuant to Part I.B.1.
- (xi) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 31 (except 311), 34 (except 3441), 35, 36, 37 (except 373), 38, 39, 4221-25, (and which are not otherwise included within categories (i)-(x)).

"Waters" mean all accumulations of water, surface and underground, natural, and artificial, public and private, or parts thereof, which are wholly or partially within, flow through, or border upon the State of Illinois, except that sewers and treatment works are not included except as specially mentioned; provided, that nothing herein contained shall authorize the use of natural or otherwise protected waters as sewers or treatment works except that in-stream aeration under Agency permit is allowable.

ILR10TMLPMT_FINAL8-11-08.doc



Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control Notice of Intent (NOI) for General Permit to Discharge Storm Water Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

For Office Use Only

OWNER INFORMATION

Permit No. ILR10 _____

Company/Owner Name: _____
Mailing Address: _____ Phone: _____
City: _____ State: _____ Zip: _____ Fax: _____
Contact Person: _____ E-mail: _____
Owner Type (select one) _____

MS4 Community: Yes No

CONTRACTOR INFORMATION

Contractor Name: _____
Mailing Address: _____ Phone: _____
City: _____ State: _____ Zip: _____ Fax: _____

CONSTRUCTION SITE INFORMATION

Select One: New Change of information for: ILR10 _____
Project Name: _____ County: _____
Street Address: _____ City: _____ IL Zip: _____
Latitude: _____ Longitude: _____
(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range
Approximate Construction Start Date _____ Approximate Construction End Date _____

Total size of construction site in acres: _____
If less than 1 acre, is the site part of a larger common plan of development?
 Yes No

Fee Schedule for Construction Sites:	
Less than 5 acres -	\$250
5 or more acres -	\$750

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Has the SWPPP been submitted to the Agency? Yes No
(Submit SWPPP electronically to: epa.constlr10swppp@illinois.gov)
Location of SWPPP for viewing: Address: _____ City: _____
SWPPP contact information: _____ Inspector qualifications: _____
Contact Name: _____
Phone: _____ Fax: _____ E-mail: _____
Project inspector, if different from above _____ Inspector qualifications: _____
Inspector's Name: _____
Phone: _____ Fax: _____ E-mail: _____

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

TYPE OF CONSTRUCTION (select one)

Construction Type _____

SIC Code: _____

Type a detailed description of the project:

HISTORIC PRESERVATION AND ENDANGERED SPECIES COMPLIANCE

Has the project been submitted to the following state agencies to satisfy applicable requirements for compliance with Illinois law on:

Historic Preservation Agency Yes No

Endangered Species Yes No

RECEIVING WATER INFORMATION

Does your storm water discharge directly to: Waters of the State or Storm Sewer

Owner of storm sewer system: _____

Name of closest receiving water body to which you discharge: _____

Mail completed form to: Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276
or call (217) 782-0610
FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a storm water pollution prevention plan and a monitoring program plan, will be complied with.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature:

Date:

Printed Name:

Title:

INSTRUCTIONS FOR COMPLETION OF CONSTRUCTION ACTIVITY NOTICE OF INTENT (NOI) FORM

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the upper right hand corner of the first page.

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at:

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 Permit Section
 Post Office Box 19276
 Springfield, Illinois 62794-9276
 or call (217) 782-0610
 FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

Reports must be typed or printed legibly and signed.

Any facility that is not presently covered by the General NPDES Permit for Storm Water Discharges From Construction Site Activities is considered a new facility.

If this is a change in your facility information, renewal, etc., please fill in your permit number on the appropriate line, changes of information or permit renewal notifications do not require a fee.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

For the Name of Closest Receiving Waters, do not use terms such as ditch or channel. For unnamed tributaries, use terms which include at least a named main tributary such as "Unnamed Tributary to Sugar Creek to Sangamon River."

Submission of initial fee and an electronic submission of Storm Water Pollution Prevention Plan (SWPPP) for Initial Permit prior to the Notice of Intent being considered complete for coverage by the ILR10 General Permits. Please make checks payable to: Illinois EPA at the above address.

Construction sites with less than 5 acres of land disturbance - fee is \$250.

Construction sites with 5 or more acres of land disturbance - fee is \$750.

SWPPP should be submitted electronically to: epa.constilr10swppp@illinois.gov When submitting electronically, use Project Name and City as indicated on NOI form.



Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control NOTICE OF TERMINATION (NOT) of Coverage under the General Permit for Storm Water Discharges Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

OWNER INFORMATION

Permit No. ILR10 _____

Owner Name: _____
 Owner Type (select one) _____
 Mailing Address: _____ Phone: _____
 City: _____ State: _____ Zip: _____ Fax: _____
 Contact Person: _____ E-mail: _____

CONTRACTOR INFORMATION

Contractor Name: _____
 Mailing Address: _____ Phone: _____
 City: _____ State: _____ Zip: _____ Fax: _____

CONSTRUCTION SITE INFORMATION

Facility Name: _____
 Street Address: _____
 City: _____ IL Zip: _____ County: _____
 NPDES Storm Water General Permit Number: ILR10 _____
 Latitude: _____ Longitude: _____
 (Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

DATE PROJECT HAS BEEN COMPLETED AND STABILIZED: _____

NOTE: Coverage under this permit cannot be terminated without the completion date.

I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized or that all storm water discharges associated with industrial activity from the identified facility that are authorized by an NPDES general permit have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with industrial activity by the general permit, and that discharging pollutants in storm water associated with industrial activity to Waters of the State is unlawful under the Environmental Protection Act and the Clean Water Act where the discharge is not authorized by an NPDES Permit.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commit a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: _____

Date: _____

Mail completed form to: Illinois Environmental Protection Agency
 Division of Water Pollution Control, Attn: Permit Section
 1021 North Grand Avenue East
 P.O. Box 19276
 Springfield, Illinois 62794-9276

(Do not submit additional documentation unless requested)

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Manager on January 1, 2013

IL 532 2102

2012 (PG) 1

GUIDELINES FOR COMPLETION OF NOTICE OF TERMINATION (NOT) FORM

Please adhere to the following guidelines:

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible.

Submit completed forms to:

Illinois Environmental Protection Agency
 Division of Water Pollution Control, Attn: Permit Section
 1021 North Grand Avenue East
 P.O. Box 19276
 Springfield, Illinois 62794-9276
 or call (217) 782-0610
 FAX: (217) 782-9891

Or submit electronically to: epa.constit10swppp@illinois.gov

Reports must be typed or printed legibly and signed.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

Final stabilization has occurred when:

- (a) all soil disturbing activities at the site have been completed;
- (b) a uniform perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas not covered by permanent structures; or
- (c) equivalent permanent stabilization measures have been employed.



Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control

Construction Site Storm Water Discharge Incidence of Non-Compliance (ION)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. You may email this completed form to:

epa.swnoncomp@illinois.gov

For Office Use Only

Permit No. ILR10

Permittee Information:

Name: _____
Street Address: _____ P.O. Box: _____
City: _____ State: IL Zip Code: _____ County: _____
Phone: _____ Email: _____

Construction Site Information:

Site Name: _____
Street Address: _____
City: _____ State: IL Zip Code: _____
Latitude: _____ Longitude: _____
(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

Cause of Non-Compliance

Actions Taken to Prevent Any Further Non-Compliance

Environmental Impact Resulting From the Non-Compliance

Actions Taken to Reduce the Environmental Impact Resulting From the Non-Compliance

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: _____

Date: _____

Printed Name: _____

Title: _____

IL 532 2/05 WPC
624 Rev. 10/2011

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form is approved by the Forms Management Center.

**DIVISION OF WATER POLLUTION CONTROL
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
FIELD OPERATIONS SECTION**

GUIDELINES FOR COMPLETION OF INCIDENCE OF NON-COMPLIANCE (ION) FORM

Complete and submit this form for any violation of the Storm Water Pollution Prevention Plan observed during any inspection conducted, including those not required by the SWPPP. Please adhere to the following guidelines:

Initial submission within 24 hours by email, telephone or fax (see region fax numbers) of any incidence of non-compliance for any violation. Submit email copy to: epa.swnoncomp@illinois.gov. After 24 hours notification, submit signed original ION within 5 days to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance #19
Post Office Box 19276
Springfield, Illinois 62794-9276

FIELD OPERATIONS HEADQUARTERS
Bruce Yurdin, Manager
Phone: 217/782-3362 Fax: 217/785-1225
EMAIL: epa.swnoncomp@illinois.gov

Region 1 - ROCKFORD
Chuck Corley, Manager
Phone: 815/987-7760 Fax: 815/987-7005

Region 2 - DESPLAINES
Jay Patel, Manager
Phone: 847/294-4000 Fax: 847/294-4058

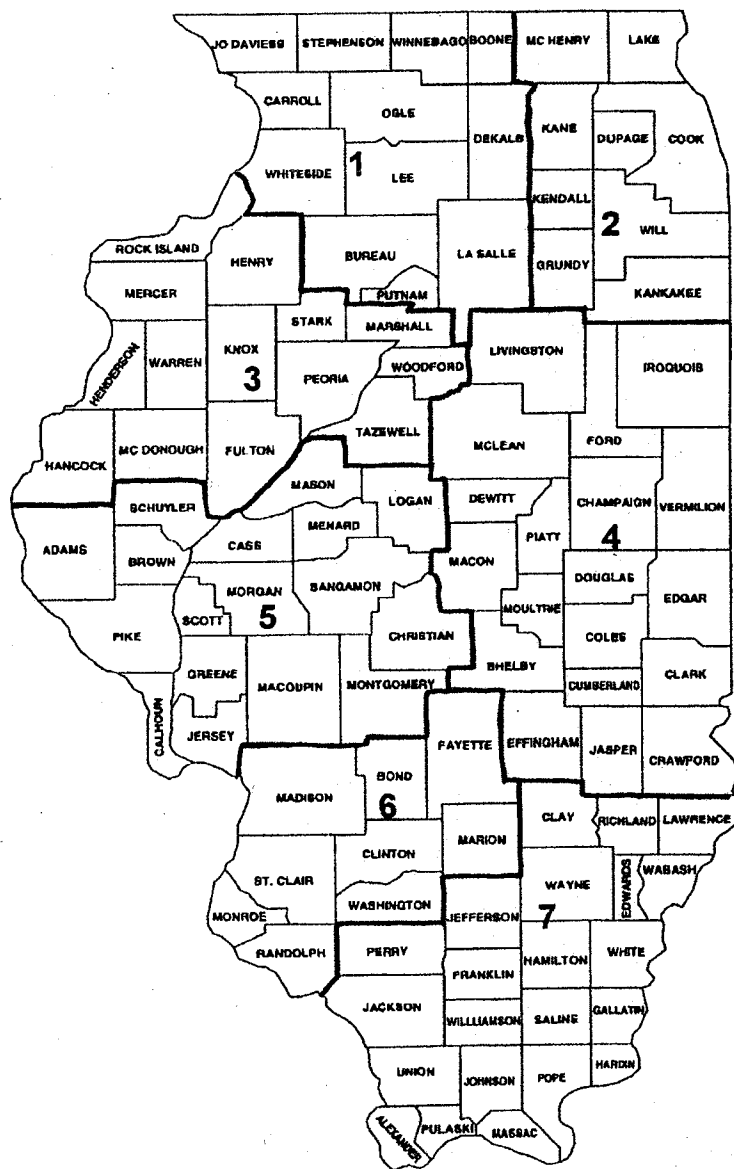
Region 3 - PEORIA
Jim Kammueler, Manager
Phone: 309/693-5463 Fax: 309/693-5467

Region 4 - CHAMPAIGN
Joe Koronkowski, Manager
Phone: 217/278-5800 Fax: 217/278-5808

Region 5 - SPRINGFIELD
Bruce Yurdin, FOS Manager
Phone: 217/782-3362 Fax: 217/785-1225

Region 6 - COLLINSVILLE
Bruce Yurdin, FOS Manager
Phone: 217/782-3362 Fax: 217/785-1225

Region 7 - MARION
Byron Marks, Manager
Phone: 618/993-7200 Fax: 618/997-5467





Cook County
Department of Transportation
and Highways

John Yonan, P.E.
Superintendent of Transportation and Highways

Cook County Administration Building
69 West Washington Street 23rd Floor
Chicago, Illinois 60602-3007
Telephone (312) 603-1600-01/ Fax (312) 603-9945

National Pollutant Discharge Elimination System (NPDES)
Contractor Certification Statement

This certification statement is required as part of the National Pollutant Discharge Elimination System General Permit No. ILR10 issued by the Illinois Environmental Protection Agency and is part of the Storm Water Pollution Prevention Plan / Erosion Control Plan for this project. All Contractors and Subcontractors involved in the implementation of the erosion and sediment control plan must sign a Contractor Certification Statement before conducting any professional service at the site identified in the plan.

Project Information:

Road: Center Street
Limits: 171st Street to 159th Street

Resident Engineer: _____

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit ILR10 that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Name (PRINT) of Contractor

Telephone Number

Signature

Company Name

Street Address

City State Zip



Cook County Department of Transportation and Highways

John Yonan, P.E. Superintendent of Transportation and Highways

Cook County Administration Building 69 West Washington Street 23rd Floor Chicago, Illinois 60602-3007 Telephone (312) 603-1600-01/ Fax (312) 603-9945

National Pollutant Discharge Elimination System (NPDES) Soil Erosion and Sediment Control - Inspection Report

Road: Center Street Limits: 171st Street to 159th Street

Section Number: 02-W5208-02-RP

Date of Inspection: Name of Inspector: Type of Inspection: weekly after recent rainfall Time of Inspection:

Stage of Construction/Active work at time of inspection:

- Pre-Construction Plan Review, Clearing and Grubbing, Rough Grading, Finishing Grade, Trenching, Sewer Installation, Paving, Final Stabilization, Other

All temporary ditch checks have been installed as shown on plans Yes No Perimeter erosion barrier/silt fence is trenched in place and functioning as indicated on plans Yes No Silt fence has been placed around all stockpiles Yes No All storm sewer inlets have inlet protection Yes No Is sediment tracking from this construction project onto public roadways? Yes No Are adjacent properties and waterways being adequately protected from construction debris and sediment? Yes No All temporary soil erosion/sediment control BMPs that are no longer needed have been removed Yes No

The Contractor is hereby notified that the following corrective action must be taken:

Location: Type of BMP: Repair must occur by: Describe correction to be made by Contactor: (date/time)

Location: Type of BMP: Repair must occur by: Describe correction to be made by Contactor: (date/time)

Location: Type of BMP: Repair must occur by: Describe correction to be made by Contactor: (date/time)

Notification to Contactor given by:

Date: Time: Contractor/SubContractor's (initial upon receipt)

Erosion and Sediment Control Deficiency Deduction will be imposed per Art. 105.03 of the IDOT Standard Specifications Jan 1, 2012. If Contractor fails to meet requirements of ILR10, an Incidence of Non-Compliance Form will be completed and sent to the IEPA with this repair notice.



Cook County
Department of Transportation
and Highways

John Yonan, P.E.
Superintendent of Transportation and Highways

Cook County Administration Building
69 West Washington Street 23rd Floor
Chicago, Illinois 60602-3007
Telephone (312) 603-1600-01/ Fax (312) 603-9945

National Pollutant Discharge Elimination System (NPDES)
Stormwater Pollution Prevention Plan

This plan has been prepared to comply with the provisions of the National Pollutant Discharge Elimination System (NPDES) ILR10 Permit, issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities.

I certify that under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Signature

7/25/14
Date

Superintendent of Transportation and Highways
Title

Road Name: **Center Street**
Limits: **171st Street to 159th Street**
Section Number: **02-W5208-02-RP**
Location: **City of Harvey**
County: **Cook**

1. SITE DESCRIPTION

The following is a description of the construction activity which is the subject of this plan:

Pavement removal; earth excavation; construction of storm sewer, aggregate subgrade, curb & gutter, PCC Pavement, ditch grading, water main relocation, and signal installation.

The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation, and grading: (To be completed by the Resident Engineer and Contractor.)

The total area of the project is 11 (acres).
The total area of the site expected to be disturbed by excavation, grading, or other soil breaking activities is 8.4 (acres).

The estimated runoff coefficients of the various areas of the site after construction activities are completed are contained in the project drainage study which is incorporated by reference into this plan. Information describing the soils at the site, including soil boring logs and soil profiles, is contained in the soils report for the project and is incorporated by reference into this plan.

According to the Soil Survey of Cook County, Illinois, soils present within project limits are

- Milford silty clay loam
- Orthents
- Aquents
- _____

The design/project report and plan documents are incorporated by reference and contain site maps, drainage patterns, approximate slopes before and after major grading activities, areas of major soil disturbance, locations of stabilization practices to be implemented during construction, location of all surface waters and wetlands within project limits, and location of storm water outfalls.

The names of receiving water(s) and aerial extent of wetland acreage at the site are also in the project report and plan documents.

Receiving waters: Calumet Union Drainage Ditch

The proposed improvements are located within the Chicago River watershed
_____ sub-watershed.

The primary storm water discharge points are as follows:

Sta. <u>36+75</u>	Description: <u>Storm sewer outfall into tributary ditch to Calumet Union Drainage Ditch</u>
Sta. <u>76+10</u>	Description: <u>Double 10'x8.5' box culvert in the Calumet Union Drainage Ditch</u>
Sta. _____	Description: _____
Sta. _____	Description: _____
Sta. _____	Description: _____

2. CONTROLS

Perimeter Erosion Barrier – A silt fence will be placed adjacent to areas of construction to intercept waterborne silt and prevent it from leaving the site. These areas are indicated on the drainage plans. This control measure will be in place and functioning prior to any ground breaking.

Erosion Control Blanket – Erosion control blanket shall be placed over all disturbed areas that have been brought to final grade if sodding is not installed within 24 hours and at any time and location as deemed necessary by the Resident Engineer to protect slopes from erosion. Erosion Control Blanket with green dye is NOT acceptable.

Stone Rip Rap – Stone riprap will be maintained around the box culvert, pipe culvert, embankment near STA. Storm sewer end sections into the tributary ditch south of 167th Street to protect against scour and prevent erosion.

Temporary Ditch Checks – Rolled excelsior or urethane/foam ditch checks may be used as directed by the Resident Engineer. Silt fence (statewide) and straw bales (District #1) are not allowed as temporary ditch checks.

Temporary Tree Protection – Shall consist of temporary fencing and tree trunk protection as directed by the Resident Engineer in accordance with Article 201.05 of the IDOT Standard Specifications for Road and Bridge Construction.

Sodding (for residential areas) – Sodding shall be used to stabilize all disturbed parkway areas within 24 hours of final grading unless otherwise noted on plans. If sodding is not in place within 24 hrs of final grading, erosion control blanket is to be used to protect exposed soils until sodding is installed.

Permanent Seeding (for non-residential areas) - Seeding, Class 2A shall be used to stabilize all disturbed parkway areas within 24 hours of final grading unless otherwise noted on plans. Erosion control blanket is to be installed over seeded areas. Biodegradable, lightweight erosion control blanket is preferred. ECB containing green dye is not acceptable.

Inlet Pipe Protection – Inlet pipe protection shall be provided for those structures in the parkway as shown in the plans. Drainage structure inlet filters will be placed and maintained at those locations indicated on the drainage plans and as directed by the Engineer.

Diversion of Stream flow – Throughout culvert or bridge installation, the Contractor shall maintain the flows by using a diversion channel and/or by-pass piping/pumping to divert flows through or around the work area (see Special Provision for Maintaining Drainage and Stream Protection). If a diversion channel is used, the channel walls and bed shall be protected from soil erosion by use of erosion control blanket, plastic sheeting, or by a method approved by the Engineer. When operating under permit, the authorizing Soil and Water Conservation District must also approve the method of diversion.

Isolation of Work Area - Prior to culvert or bridge installation, the Contractor shall isolate the work area from flowing water through the use of cofferdams. The system must be approved by the Engineer and by the authorizing Soil and Water Conservation District (see Special Provision for Maintaining Drainage and Stream Protection).

Dewatering Operations - The Contractor shall use a sump pit for dewatering the isolated work area. Water from the sump pit shall be discharged to a sediment basin or sediment bag of adequate size to provide for settlement prior to being discharged to the drainage system. The discharge of water from dewatering operations directly into the stream or drainage system is strictly prohibited. (see Special Provision for Maintaining Drainage and Stream Protection).

The Contractor shall initiate stabilization measures as soon as practicable on portions of the site where construction activities have ceased (permanently or temporarily) and at any time and location deemed necessary and as directed in writing by the Engineer.

The Contractor shall provide and install stabilization measures (permanently or temporarily) as needed prior to the cessation of work at the end of the construction season which will provide adequate protection until work is resumed. The Contractor shall maintain these measures throughout the dormant period.

Contractor: _____

Print name and initial

Other Controls

Waste Disposal – No solid materials, including building materials, shall be discharged into waters of the state, except as authorized by a Section 404 permit.

The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

Approved State or Local Plans

The management practices, controls, and provisions contained in this plan will be in accordance with IDOT Standard Specifications for Road and Bridge Construction (2002) and the IEPA Illinois Urban Manual (1995).

MAINTENANCE

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan.

During construction the Contractor shall:

Clean up and grade the work area to eliminate concentration of runoff.
Cover the open ends of pipes in trenches at the close of each workday.
Maintain or replace erosion and sediment control items.

Prior to any landscaping/restoration work, the Contractor shall:

Remove and dispose of silt retained by the temporary ditch checks as directed by the resident engineer.
Reinstall temporary ditch checks after cleaning.

All maintenance of erosion control systems will be the responsibility of the Contractor. All locations where vehicles enter and exit the construction site and all other areas subject to erosion should be inspected at least once every seven days and within 24 hours or the end of each ½ in. or greater rainfall event, or an equivalent snowfall (5 in.).

Inspection procedures shall be followed as outlined below.

INSPECTIONS

Qualified personnel shall inspect disturbed areas of the construction site which have not been fully stabilized, structural control measures, and locations where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is ½ in. or greater rainfall or equivalent snowfall (5 in.).

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

Based on the results of the inspection, the description of potential pollutant sources identified in section a) above and pollution prevention measures identified in section a) above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 24 hours following the inspection (a mark-up plan showing accurate locations and types of BMPs used must be kept.)

A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution plan, and actions taken in accordance with section b) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI G of the general permit.

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of non-compliance, actions which were taken to prevent any further causes of non-compliance, and a statement detailing any environmental impact which may have resulted from the non-compliance. All reports of non-compliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit. The report of non-compliance shall be mailed to the following address:

Illinois Environmental Pollution Agency
 Division of Water Pollution Control
 Attn: Compliance Assurance Section
 1021 North Grand East
 Post Office Box 19276
 Springfield, IL 62794-9276

NON-STORM WATER DISCHARGES

Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in the plans are described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge.

The only source of non-storm water discharge within the project limits will be from watering of seeding or for erosion control and landscaping purposes.

EVIDENCE OF COMPLIANCE WITH OTHER LAWS

Endangered Species Act

As part of the Biological Resource Review for the project, an evaluation of habitat for federally listed endangered and threatened species was conducted by the U.S. Fish and Wildlife Service. No suitable habitat for species listed as occurring in Cook County was found to be present.

National Historic Properties Act of 1966

A cultural resource review was made for this project as part of the planning process. It included research and documentation concerning historical and archeological resources and sites, and a field archeological survey. The project received concurrence from the Illinois State Historic Preservation Officer that no historic properties subject to protection under Section 106 of the National Historic Preservation Act of 1966, as amended, will be affected by the proposed construction activities.

State Endangered and Threatened Species

~~The IL Department of Natural Resources participated in the Biological Resources Review encompassing the entire improvement and requested coordination with the Cook County Department of Transportation and Highways due to potential impacts to:~~

No Biological Impacts

 (description of impacted resource)

This area is located: NA

 (location in reference to the project plans)

Early coordination was completed with all necessary clearance received from the IDNR on: 11/15/2012
 (clearance letter date here)

EVIDENCE OF COMPLIANCE WITH OTHER LAWS

Clean Water Act: Wetlands and Waters of the U.S.

This project is operating under Section 404 of the Clean Water Act General Permit Application # LRC-2005-13621 as approved by the US Army Corps of Engineers on 2/12/2007

This project shall comply with the water quality certification issued under Section 401 of the Clean Water Act by the IL Environmental Protection Agency.

If the project will impact 0.10 acre or more of wetlands, mitigation of 1.5:1 is required under federal regulations.

Wetland Impacts 0.02 acres

Mitigation Provided 0.04 acres / Location: Sauk Trail Mitigation Bank

References

- Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, January 1, 2012
- Illinois Urban Manual, United States Department of Agriculture – Natural Resources Conservation Service, September 1995
- National Pollutant Discharge Elimination System (NPDES) Storm Water Permit General Permit for Construction Site Activities No. ILR10', Illinois Environmental Protection Agency – Division of Water Pollution Control.

**SPECIAL PROVISION
FOR
MAINTAINING DRAINAGE AND STREAM PROTECTION**

Description. The Contractor shall be responsible for the diversion of flow and dewatering of the construction area during the construction of all drainage structures, including box culverts, pipe culverts or other drainage structures as indicated in the plans. The Contractor shall be responsible for preventing sediment from leaving the work site due to these operations.

Construction Requirements. The Contractor shall protect the work area as shown in the plans or by other methods meeting the approval of the Engineer and the authorizing Soil and Water Conservation District to isolate the construction area from the stream flow. The method of isolation and maintenance of stream flow proposed by the Contractor shall be submitted to the Engineer for his review and approval prior to commencing work. The submittal shall include the type, size and location of dam used to isolate area, size and location of diversion channel if used, size and material type of any temporary culverts or flumes for diversion channels, pumps along with their capacities, sump pits and other appurtenances or any other methods to be employed by the Contractor in order to comply with the requirements of this special provision. The submittal shall also include details as to the methods and locations of sediment control and erosion prevention measures that will be used and maintained as required by the contract documents and by all regulatory permits under which the project operates. An approval letter from the authorizing Soil and Water Conservation District shall also accompany the submittal if an alternate method is to be employed by the Contractor.

Basis of Payment. The work detailed in this Special Provision including construction and maintenance of the system as designed shall not be measured for payment. It shall be included in the unit bid price for the item of work involved. No additional compensation shall be allowed for stream protection measures that may be required by the authorizing Soil and Water Conservation District.

**SPECIAL PROVISION
FOR
SODDING**

This Special Provision amends the provisions of the Standard Specifications and shall be construed to be a part thereof.

252.09 Supplemental Watering. Revise the third sentence to read:

When the supplemental watering is specified on the plans, the water shall be applied at the total rate of 10 gallons per square yard (45 liters per square meter) within 24 hours of notice.

252.11 Inspection. Revise the first paragraph to read:

The Contractor shall notify the Cook County Department of Transportation and Highways of the localities from which the sod is to be obtained so that an authorized representative of the Transportation and Highways Department can inspect the field for approval. All sod shall be fresh and green when delivered. Any sod that is dried out, burned, brown or inferior in quality to the approved sod field, or in any way fails to meet the requirements of the specifications, will be rejected and removed from the job immediately and shall be replaced with suitable sod at the Contractor's expense.

To insure the delivery of suitable field sod, three weeks before cutting, the Contractor or the Supplier shall apply sufficient weed killer to eradicate existing common weeds. Seven days after the weed killer is applied, sufficient fertilizer shall be spread over the field to insure green sod prior to any delivery.

Only 2 year growing season or older approved nursery grown sod shall be placed on parkways and median strips adjacent to residential property, parks or other special areas as designated by the Engineer.

**SPECIAL PROVISION
FOR
WORK ZONE TRAFFIC CONTROL SURVEILLANCE**

Revise Article 701.10 of the Standard Specifications to read:

“The Contractor shall conduct inspections of the worksite at a frequency that will allow for the timely replacement of any traffic control device that has become displaced, worn, or damaged. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.”

Delete Articles 701.19(d) and Article 701.20(g) of the Standard Specifications.

**SPECIAL PROVISION
FOR
TRAFFIC CONTROL DEVICES - DETOUR ROUTING**

Description. This work shall consist of the furnishing of Sign Panel Type 1 and/or Type 2, complete with retroreflective sign faces, legend and supplemental panels, and installing them on sign supports, sign structures, traffic signal standard or light standard, as determined appropriate and consistent with the requirements set forth in the State of Illinois "Manual on Uniform Traffic Control Devices for Streets and Highways"; the daily monitoring and maintenance of these installations; and the removal of the entire assembly and restoration of area upon completion of project.

Materials. The sign panel materials shall be as specified in Sections 1090 and 1091 of the Standard Specifications for Road and Bridge Construction. When the installation of sign supports is necessary, they shall meet the requirements for Metal Post Type B of Article 1006.29 of the Standard Specifications for Road and Bridge Construction.

Installation Requirements. Type 1 and/or Type 2 sign panels shall be installed using all required supporting and mounting hardware in accordance with the details shown in the plans or as directed by the Engineer. When used, the metal posts may be driven by hand or mechanical means to a minimum depth of 4 feet measured from the ground line or as shown in the plans. The post shall be protected by a suitable driving cap and if required by the Engineer, the material around the post will be compacted after driving.

If the post is too long, the Contractor may choose to cut the post or embed it further in the ground; however, no splicing of metal posts will be allowed. Any post so cut shall have the cut end completely deburred and treated with a zinc rich paint.

The Contractor shall be responsible for the proper elevation, offset and orientation of all posts as indicated on the plans or as directed by the Engineer.

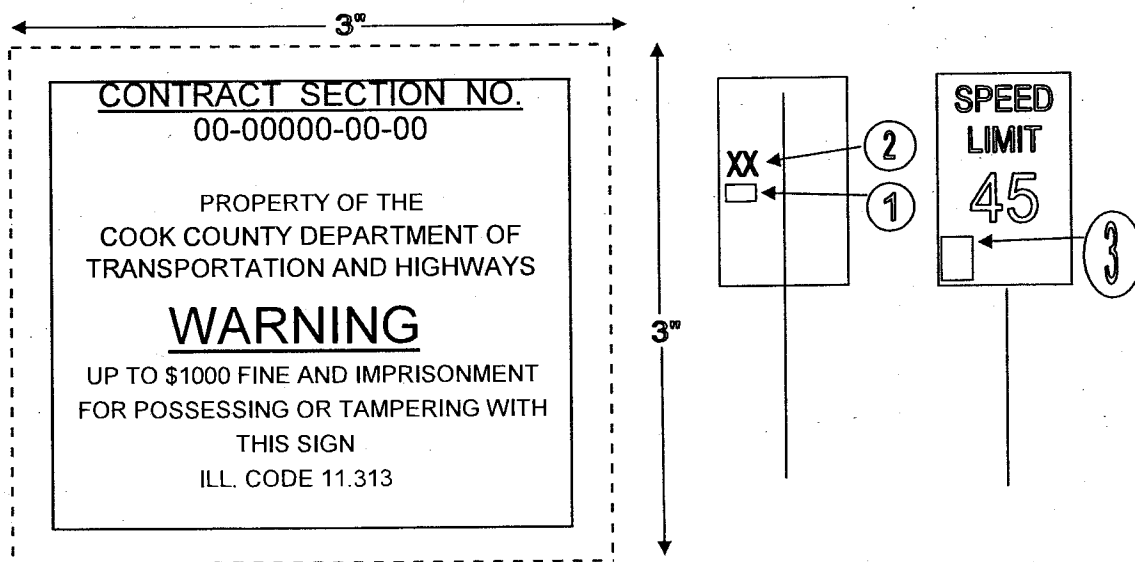
All posts will be of sufficient length to allow a 7 foot clear-height in urban areas and a 5 foot clear-height in rural areas, or as directed by the Engineer (bottom of panel to elevation of edge of pavement). The tops of all posts shall be nearly flush with the top of the sign and shall not protrude above the sign.

Basis of Payment. This work shall be paid for at the contract lump sum price for TRAFFIC CONTROL DEVICES – DETOUR ROUTING, which price shall be payment in full for all labor, material, transportation, handling and incidentals necessary to furnish, install, monitor daily, maintain, remove all Sign Panels Type 1 and/or Type 2 and Metal Post Type B indicated on the detour plan and as directed by the Engineer.

**SPECIAL PROVISION
FOR
SIGN IDENTIFICATION DECAL**

1. The identification decal shall have an Orange background with Black legend. The material may be of non-reflectorized or reflectorized sign face with weatherproof adhesive backing. The decal shall be applied as per drawing to the back side of all sign panels installed, replaced or relocated.
2. A decal of 3" series D numerals representing the last two digits of the year in which NEW sign was first installed shall be applied on the back of the sign and just above the identification decal. The numerals shall be of the Orange color.
3. As shown in the drawing, wording 'CCDOTH XX-XX' 3/8" high shall be stenciled at the bottom left of the sign face where XX-XX represents the month and year of NEW sign fabrication.

The cost of the material and labor for applying the decals and year identification numerals shall be considered as incidental to the Contract. A finished sample of the decals shall be submitted to the Engineer for approval prior to application.



**SPECIAL PROVISION
FOR
TRAFFIC PROTECTION**

General. This item of work shall include furnishing, installing, maintaining, replacing, relocating and removing all traffic control devices used for the purpose of regulating, warning or directing traffic and protecting workers during the construction or maintenance of this improvement.

Traffic protection shall be provided as called for in the plans, these Special Provisions, applicable Traffic Control Highway Standards, applicable sections of the Standard Specifications, or as directed by the Engineer.

The governing factor in the execution and staging of work for this project is to provide the motoring public with the safest possible travel conditions along the roadway through or around the construction zone. The Contractor shall arrange his operations to keep the closing of any lane of the roadway to a minimum. Where the traffic of any building in the area of the proposed improvement is of an emergency nature, such as Hospital, Fire or Police Station traffic, the Contractor shall provide for free movement of such traffic during the course of construction.

Traffic Control Devices include signs and their supports, signals, pavement markings and markers, traffic cones, barricades with sand bags, plastic drums, channelizing devices, warning lights, arrow boards, flaggers, or any other device used for the purpose of regulating, detouring, warning or guiding traffic through or around the construction zone, including required devices and marking approaching and departing the construction zone.

The Contractor is required to conduct routine inspections of the worksite at a frequency that will allow for the prompt replacement of any traffic control device that has become displaced, worn or damaged to the extent that it no longer conforms to the shape, dimensions, color and operational requirements of the "Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), the Traffic Control Standards and the "Quality Standard for Work Zone Traffic Control Devices" issued by the Illinois Department of Transportation or will no longer present a neat appearance to motorists. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.

The Contractor shall be responsible for the proper location, installation and arrangement of all traffic control devices. Special attention shall be given to advance warning signs during construction operations in order to keep lane assignment consistent with barricade placement at all times. The Contractor shall immediately remove, cover or turn from the view of the motorists all traffic control devices which are inconsistent with detour or lane assignment patterns and conflicting conditions during the transition from one construction stage to another. When the Contractor elects to cover conflicting or inappropriate signing, materials used shall totally block out reflectivity of the sign and shall cover the entire sign. The method used for covering the signing shall meet with the approval of the Engineer.

The Contractor shall coordinate all traffic control work on this project with adjoining or overlapping projects, including barricade placement necessary to provide a uniform traffic detour pattern. When directed by the Engineer, the Contractor shall remove all traffic control devices which were furnished, installed and maintained by him under this contract, and such devices shall remain the property of the Contractor. All

traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

The Contractor shall ensure that all traffic control devices installed by him are functional and effective 24 hours each day.

107.15 Dirt on Pavement or Structures. Add the following after the first paragraph of this Article:

When ordered by the Engineer, the Contractor shall use some method to allay dust and prevent a nuisance. This shall be done preferably by sprinkling the Subgrade or the portion of pavement used by trucks or busses with water. If conditions warrant, this shall receive constant attention by the Contractor. Calcium Chloride shall not be used for this purpose. No extra compensation shall be allowed the Contractor for this work.

Signs. All signs except those referring to daily lane closures shall be post mounted in accordance with Standard 701901 for all projects that exceed four days.

Construction signs referring to daytime lane closures during working hours shall be removed, covered or turned away from the view of the motorists during non-working hours.

Prior to the beginning of construction operations, the Contractor will be provided a sign log of all existing signs within the limits of the construction zone. The Contractor is responsible for verifying the accuracy of the sign log. Throughout the duration of this project, all existing traffic signs shall be maintained by the Contractor. All provisions of Article 107.25 of the Standard Specifications shall apply except the third paragraph shall be revised to read: "The Contractor shall maintain, furnish and replace at his own expense, any traffic sign, or post which has been damaged or lost by the Contractor or a third party".

"Fresh Oil" signs (W21-2) shall be used when prime is applied to pavement that is open to traffic. The signs are to remain until tracking of the prime ceases. The sign shall be erected a minimum of 500 feet preceding the start of the prime and on all side roads within the posted area. The "Fresh Oil" sign on the side road shall be posted a minimum of 200 feet from the mainline pavement.

"Rough Grooved Surface" signs (W8-1107) shall be used when the road has been cold milled and open to traffic. The signs shall remain in place until the milled surface condition no longer exists. These signs shall be erected a minimum of 500 feet preceding the start of the milled pavement and on all side roads within the posted area. The "Rough Grooved Surface" signs on the side roads shall be posted 200 feet from the mainline pavement. All signs shall have an 18" x 18" orange flag and amber flashing light attached.

Whenever a lane is closed to traffic using Standard 701606, 701601, or 701701, the pavement width transition sign (W4-2R or W4-2L) shall be used in lieu of "Workers" sign (W21-1 or W21-1a).

Whenever any vehicle, equipment, workers or their activities infringe on the shoulder or within 15 feet of the traveled way and the traveled way remains unobstructed, then the applicable Traffic Control Standard shall be 701006, 701011, 701101, or 701701. "Shoulder Work Ahead" sign (W21-5(0)-48) shall be used in lieu of the "Workers" sign (W21-1 or W-21-1a).

The Contractor shall provide and erect any other signs that are required for traffic safety operations and the conveyance of traffic information to the motorist, which may not be included in the Traffic Control

Standards. The requirement for these signs shall be determined by and installed at the direction of the Engineer.

Barricades: Any drop off greater than 3 inches, but less than 6 inches within 8 feet of the pavement edge shall be protected by Type I or II barricades equipped with mono-directional steady burn lights at 100 foot center to center spacing. If the drop off within 8 feet of the pavement edge exceeds 6 inches, the barricades mentioned above shall be placed at 50 foot center to center spacing. Barricades that must be placed in excavated areas shall have leg extensions installed such that the top of the barricade is in compliance with the height requirements of Standard 701901. In addition to the placement of barricades as described above, pavement drop off signs (W8-9a) shall be used along with the barricades and at the direction of the Engineer.

Placement of all signs, barricades or drums shall proceed in the direction of flow of traffic. Removal of all signs, barricades or drums shall start at the end of the construction areas and proceed toward oncoming traffic unless otherwise directed by the Engineer.

All Type I and Type II barricades, drums and vertical panels shall be equipped with a steady burn light when used during hours of darkness unless otherwise stated herein.

Check barricades shall be placed in work areas perpendicular to traffic every 1,000 feet, one per lane and per shoulder, to prevent motorists from using work areas as a traveled way. Two additional check barricades shall be placed in advance of each patch excavation or any other hazards in the work area, the first at the edge of the open traffic lane and the second centered in the closed lane. Check barricades shall be Type I or II and equipped with a flashing light.

Arrow Boards. A flashing arrow board shall be operating at all times when a lane is closed to traffic on a multilane highway. Arrow boards shall be provided and located in a head-on position within each lane closure taper.

Temporary Concrete Barrier Vertical Panels and Lights. Whenever temporary concrete barrier is specified in the plans, vertical panels and steady burning lights meeting the requirement of Articles 1106.01 and 1106.02 of the Standard Specifications and Standard 701901 shall be installed on the barrier at 50 foot centers minimum or at the spacing shown on the plans. The method of mounting shall be approved by the Engineer. Upon conclusion of the work, the panels and lights shall be removed and shall remain the property of the Contractor.

Pedestrian Sidewalk Control. The Contractor shall install, maintain and remove necessary signs and barricades needed to direct pedestrians to usable sidewalks and walkways during the construction in accordance with Traffic Control Standard 701801 or as directed by the Engineer. The Contractor shall make adequate provision for the free passage of foot traffic at all intersecting streets which are to remain open to traffic. The materials or equipment used in the construction of this improvement shall be so placed as to afford access to abutting private property and to all hydrants and valves with a minimum of inconvenience.

All barricades shall be Type I or II equipped with flashing lights. At each point of closure, sufficient numbers of barricades shall be used to completely close the sidewalk to pedestrian movement. Where construction activities involve sidewalks on both sides of the street, the work shall be staged so that both sidewalks are not out of service at the same time.

107.09 Public Convenience and Safety. Revise the Seventh paragraph of this Article to read as follows:

The following vertical and horizontal restrictions shall pertain to roads as defined in the Illinois Highway Code, Article 2, Division 1, Section 2-101, 2-102, and 2-103 when construction is being performed with the road open to traffic.

The Contractor shall provide a telephone number where a responsible individual can be contacted on a 24-hour-a-day basis to receive notification of any deficiencies regarding traffic control and protection. The Contractor shall dispatch workers, materials and equipment to correct any such deficiencies. The Contractor shall respond to any call from the Department concerning any request for improving or correcting traffic control devices and begin making the requested repairs within two hours from the time of notification.

Personal vehicles shall not park within the right-of-way except in specific areas designated by the Engineer.

The contractor shall maintain at least one lane of traffic at all times on two lane roads and at least one lane in each direction on 4 or more lane roads, during the construction of this project. The Contractor shall also maintain areas to entrances and side roads along the proposed improvement. Interference with traffic movements and inconvenience to owners of abutting property and the public shall be kept to a minimum. Any delays or inconveniences caused to the Contractor by complying with these requirements shall be considered as incidental to the contract, and no additional compensation will be allowed.

On two lane roads, the Contractor is to plan the work so that there will be no open holes in the pavement and that all barricades will be removed from the pavement during non-work hours.

On four or more lane highways, there shall be no open holes in the pavement being used by the traveling public. Lane closures, if allowed, will be in accordance with the applicable standards, any staging details shown in the plans and other applicable contract documents.

The Contractor shall remove all equipment from the shoulders and medians after work hours.

No road closures or restrictions shall be permitted except those covered by the Traffic Control Highway Standards without written approval by the Engineer.

When traveling in lanes open to public traffic, the Contractor's vehicles shall always move with and not against or across the flow of traffic. These vehicles shall enter or leave work areas in a manner which will not be hazardous to, nor interfere with, traffic.

Pavement Markings. Temporary pavement marking paint used on temporary or unfinished surfaces shall be maintained to the highest degree of visibility and reflectivity and on long term projects shall be repainted when the temporary pavement marking shows signs of deterioration or at a minimum of every three (3) months and as directed by the Engineer at no additional cost and is considered as incidental to the cost of Traffic Protection.

Temporary pavement marking shall be applied as solid unbroken lines when used to delineate any pavement transition, turn lane transition and storage bay. Double yellow centerline shall be used across a bridge deck where the distance to be marked is less than 160 feet.

Temporary raised reflective bi-directional (amber) pavement markers (Section 781 and Article 1096.02 of the Standard Specifications) shall be used, and replaced when required, throughout a temporary by-pass detour pavement at no additional cost.

Method of Measurement. Delete: Article 701.19 Method of Measurement

Traffic Protection will not be measured for payment but shall include the furnishing, installing, maintaining, relocation and removal of traffic control devices required in the plans and these special provisions and all temporary pavement marking paint and tape lines, letters and symbols.

Basis of Payment. Delete: Article 701.20 Basis of Payment

This work will be paid for at the lump sum price for TRAFFIC PROTECTION, which price shall be payment in full for all labor, materials, transportation, handling and incidentals necessary to furnish, install, maintain, replace, relocate and remove all traffic control devices when required, such as signing, arrow boards, barricades, plastic drums, road closures, temporary pavement marking paint and tape lines and letters and symbols (Section 780 and Article 1095.02 of the Standard Specifications), temporary concrete barrier vertical panels and lights (Standard 701901), flexible delineators (Standard 701901), prismatic barrier reflectors (Sections 782 and 1097 of the Standard Specifications), temporary raised reflective pavement markers (Section 781 and Article 1096.02 of the Standard Specifications) and all traffic control devices indicated in the plans and specifications. The salvage value of all material removed (including existing traffic signs - when removal is required) shall be reflected in the bid price for this item.

Delays to the Contractor caused by complying with these requirements will be considered incidental to the item for Traffic Protection, and no additional compensation will be allowed.

Payment Adjustments. The Engineer may require additional traffic control to be installed in accordance with standards and/or designs other than those included in the plans. In such cases, the standards and/or designs will be made available to the Contractor at least one week in advance of the change in traffic control. Payment for any additional traffic control required will be in accordance with Article 109.04 of the Standard Specifications.

Revisions in the phasing of construction or maintenance operations, requested by the Contractor, may require traffic control to be installed in accordance with standards and/or designs other than those included in the plans. Revisions or modifications to the traffic control shown in the contract shall be submitted by the Contractor for approval by the Engineer. No additional payment will be made for a Contractor requested modification.

In the event the sum total value of all the work items for which traffic protection is required is increased or decreased by more than ten percent (10%), the contract bid price for Traffic Protection will be adjusted as follows:

Adjust contract price = $.25P + .75P [1 \pm (X-0.1)]$

Where "P" is the contract price for Traffic Protection

Where "X" = (Difference between original and final sum total value of all the work items for which protection is required) divided by (Original sum total value of all work items for which traffic protection is required)

The value of work items used in calculating the increase or decrease will include only items which have been added to or deducted from the contract under Article 104.02 of the Standard Specifications and only items which require use of Traffic Protection.

In the event the Department cancels or alters any portion of the contract which results in elimination or noncompletion of any portion of the work, payment for partially completed work will be made in accordance with Article 109.06 of the Standard Specifications.

**SPECIAL PROVISION
FOR
PROJECT SIGNS PLAQUE**

County will erect signs announcing 'A Cook County Department of Transportation and Highways, Road Improvement Project' with a 24"X4" size plaque reading 'COMING SOON' in front and 'COMPLETED' in back. Contractor will remove this 24"X4" size plaque and store it at the beginning of work on the contract. When work on the contract is completed, Contractor will attach the plaques to the Project signs reading 'COMPLETED'. The cost of this work will be incidental to the contract.

**SPECIAL PROVISION
FOR
ERADICATION OF EXISTING PAVEMENT MARKING**

Description. This work shall consist of eradication of existing painted, thermoplastic or preformed plastic pavement markings by sand or hydro-blasting and/or by grinding.

Equipment. All equipment shall be approved by the Engineer prior to use and shall be sufficient capacity to efficiently and economically clean the roadway surface to the specified cleanliness. The equipment shall be power driven and in good operating condition. The equipment shall utilize moisture and oil traps, in working order, of sufficient capacity to remove contaminants from the air and prevent deposition of moisture, oil, or other contaminants on the roadway surface.

If a high pressure water spray or "hydro blast" is used, the pressure at the nozzle shall be no less than 6,500 psi and no more than 9,500 psi with 10 to 13 gallons of water per minute used.

The blasting medium shall be a quality commercial product capable of producing the specified surface cleanliness without the deposition of deleterious materials on the cleaned surface.

Eradication Requirements. The eradication shall be performed only on that portion of the roadway surface designated by the Engineer or as specified in the plans. Widths, lengths, and shapes of the blast-cleaned surface shall be of sufficient size to include the full area of the specified pavement marking to be removed.

Ninety percent (90%) of the pavement substrate shall be exposed. This shall include not only removal of the existing white or yellow pavement markings, but shall also include sufficient removal of any black markings which exist between the lane lines.

Over cleaning to the extent of possible damage to the roadway surface shall be held to a minimum. Very small particles of tightly adhering existing markings may remain in place if, in the opinion of the Engineer, complete removal of the small particles will result in pavement surface damage.

The cleaning operation shall be a continuous moving process with minimum interruption to traffic. Care should be taken to protect all persons and property from injury or damage.

Method of Measurement. Eradicated pavement marking shall be measured for payment in square feet. The area used for measurement shall be the actual area of lines and in the case of letters and symbols shall be the area of the smallest rectangle that will circumscribe each individual letter or symbol.

Basis of Payment. This work will be paid for at the contract unit price per square foot of ERADICATION OF EXISTING PAVEMENT MARKING, which price shall include eradication of existing painted, thermoplastic or preformed plastic pavement markings to the satisfaction of the Engineer.

**SPECIAL PROVISION
FOR
RAISED REFLECTIVE PAVEMENT MARKER**

This special provision applies to pavement sections where existing surface will be diamond ground or will remain intact, and does not apply to pavement sections where existing surface will be milled, overlaid, removed, or recycled.

The removal of existing raised reflective pavement markers, including base casting and reflective element, shall meet the requirements of Section 783 of the "Standard Specifications for Road and Bridge Construction", except that the pavement shall be repaired to the satisfaction of the Engineer with epoxy that has similar color as pavement, and shall be approved by the Engineer prior to use. This work will be paid for at the contract unit price per each for RAISED REFLECTIVE PAVEMENT MARKER REMOVAL.

The installation of new raised reflective pavement markers shall meet the requirements of Section 781 of the "Standard Specifications for Road and Bridge Construction". To ensure proper installation of the new raised reflective pavement markers, the markers shall be located fore or aft of the existing casting location and on the existing alignment, or as directed by the Engineer. This work will be paid for at the contract unit price per each for RAISED REFLECTIVE PAVEMENT MARKER.

**SPECIAL PROVISION
FOR
TRAFFIC SIGNAL WORK GENERAL**

All work and equipment performed and installed under this contract, shall be governed and shall comply to the State of Illinois "Standard Specifications for Road and Bridge Construction" latest edition, herein referred to as the Standard Specifications and the "District One Standard Design Details"; the State of Illinois "Manual on Uniform Traffic Control Devices for Streets and Highways", latest edition; the "National Electrical Code" latest edition herein referred to as the NEC; the National Electrical Manufacturers Association, herein referred to as NEMA (all publications for traffic control items) latest editions; the International Municipal Signal Association, herein referred to as IMSA "Official Wire & Cable Specifications Manual" latest edition; the Institute of Transportation Engineers, herein referred to as the ITE, Technical Report No.1, "A Standard for Adjustable Face Vehicular Traffic Control Heads"; AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals" and the "Supplemental Specifications" and "Recurring Special Provisions" noted herein.

The following Special Provisions supplement the above specifications, manuals, and code. The intent of these Special Provisions is to prescribe the materials and construction methods commonly used for traffic signal installations. All material furnished shall be new. The locations and the details of all installations shall be as indicated on the Plans or as directed by the Engineer. Traffic signal construction and maintenance work shall be performed by personnel holding IMSA Traffic Signal Technician Level II certification. The work to be done under this contract consists of furnishing and installing all traffic signal work as specified in the Plans and as specified herein in a manner acceptable and approved by the Engineer. In case of conflict with any part or parts of said documents, these Special Provisions shall take precedence and shall govern.

In order to reduce possible vehicular conflicts with fixed objects and avoid public criticism, it is necessary to require that no posts, poles, heads, or controller cabinets be installed until all traffic signal control equipment is brought to and located on the job site.

The construction, installation and/or removal work shall be accomplished at all the intersections within the limits of this project or as shown in the plans.

Description of Work. The work to be done under this contract consists of furnishing and installing all traffic signal work as specified on the Plans and as specified herein in a manner acceptable and approved by the Engineer.

Restoration. All areas and plant material damaged by the installation of Traffic Signal posts, mast arm poles, underground cables or conduits, handholes and control cabinets shall be replaced as follows:

- Grass Areas: Replace top soil to a depth of four (4) inches (100 mm), re-grade shoulders, ditch slopes, and open areas back to former existing grades, fertilize, seed and mulch all damaged areas.
- Sod Areas (areas adjacent to residential, commercial and industrial properties and any other areas as directed by the engineer): Fertilize and re-sod damaged areas.
- Plant Materials: Remove and replace damaged trees, shrubs and vines with the same varieties that existed prior to damage.

- Shoulders other than Stabilized and Backslopes, medians, sidewalks, pavement, etc.: Replace shoulder to original condition and restore edge of backslope to original lines and grades. Medians, sidewalks and pavement shall be replaced in kind.
- All brick pavers disturbed in the work area shall be restored to their original configuration or as directed by the Engineer. All damaged brick pavers shall be replaced with a comparable material approved by the Engineer

All damaged landscape shall be replaced in accordance with Section 250 through 254 of the Standard Specifications.

Any damage, due to the installation of traffic signal equipment; or necessary removal at handholes, jacking pits, and inspection openings, of sidewalks, curbs, gutters, median and island paving, and/or pavement, shall be repaired or replaced by the Contractor. Repair or replacement shall be made with a like material of like thickness to the existing surface. Restoration of traffic signal work area shall be included in related pay items such as foundation, conduit, handhole, trench and backfill, etc.

Control of Traffic Signal Materials.

All work shall meet the requirements of the "Standard Specifications for Road and Bridge Construction", except as follows:

The controller and all control equipment shall be of a manufacturer that is approved by this Department. The manufacturer shall have a representative located in the six (6) county Chicago areas.

The intent of this Section is to prescribe the materials and construction methods commonly used for traffic signal installations. All material furnished shall be new. Traffic materials and equipment shall bear the U.L. label whenever such labeling is available.

All iron and steel products, which are to be incorporated into work shall be domestically manufactured or produced and fabricated. The contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements.

The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.

Metal material other than iron and steel, which are not domestically produced, may be accepted provided:

- (a) The contractor notifies the Department in advance of his/her intension to use other than domestically manufactured or produced material.
- (b) Written evidence is provided in English of compliance with all requirements of the specifications.
- (c) Physical tests conducted by the department verify the acceptability of the material.

Before any signal equipment, including mast arm assemblies, poles, controller cabinets, all control equipment and signal heads, are delivered to the job site, the Contractor shall obtain and forward to the Engineer a certified, notarized statement from the manufacturer, containing the catalog numbers of the

equipment and/or material, guaranteeing that the equipment and/or material, after manufacture, comply in all respects with the requirements of the Specifications and these Special Provisions.

All material approval requests shall be within thirty (30) consecutive calendar days after the Contract is awarded, or at the pre-construction meeting, whichever is first.

All cost of work and materials required to comply with the above requirements shall be included in the pay item bid prices, under which the subject materials and signal equipment are paid, and no additional compensation will be allowed. Materials and signal equipment not complying with the above requirements that have been installed on the job will be done at the Contractor's own risk and may be subject to removal and disposal at the Contractor's expense.

The Contractor must submit the following for approval by the Engineer:

- Three (3) complete set of manufacturer's descriptive literature, drawings, and specifications of the traffic signal equipment, handholes, junction box, cable, conduit and all associated items that will be installed on the contract. Partial or incomplete submittal will be returned without review.
- The contractor shall supply samples of all wire and cable, and shall make up and supply samples of each type of cable splice proposed for use in the work for the-Engineer's approval.
- Seven (7) complete shop drawings of the mast arm assemblies and poles including combination mast arm poles are required, showing in detail the fabrication, anchor bolts, reinforcing materials, design material, thickness of sections and weld sizes. These drawing shall be at least 11" x 17" (275mm x 425mm) in size and adequate quality for microfilming.
- Certain non-standard mast arm poles and assemblies will require additional review. The Contractor shall account for additional review time in their schedule.
- Seven (7) copies of a letter from the Traffic Signal Contractor on company letterhead listing contract number or permit number, project location limits, pay item number and description and listing the manufacturer's name and model numbers of the proposed equipment to be supplied and stating that the proposed equipment meets all Contract requirements. The letter will be reviewed by the Engineer to determine whether the equipment to be used is approvable. The letters will be stamped as approved or not approved accordingly and returned to the Contractor.
- Five (5) copies of a letter from the Traffic Signal Contractor listing the System Coordination and Timing (SCAT) consultant's name shall be supplied. The letter will be reviewed by the Engineer to determine whether the SCAT consultant to be used is approved. The letters will be stamped as approved or not approved accordingly and returned to the Contractor.
- Where certifications and/or warranties are specified. The information submitted for approval shall include certifications and warranties. Certifications involving inspections and/or tests of material shall be complete with all test data, dates and times.
- All above shall be stamped with the Section Number, Permit Number, or Contract Number and Intersection(s) name(s). Pay item numbers shall also be included. If the above required information is

not on each sheet of the above literature or letters, the equipment and material cuts will not be reviewed and shall be returned to the Contractor.

- Exceptions, Deviations and Substitutions. In general, exceptions to and deviations from the requirements of the Contract Documents will not be allowed. It is the Contractor's responsibility to note any deviations from Contract requirements at the time of submittal and to make any requests for deviations in writing to the Engineer. In general, substitutions will not be acceptable. Requests for substitutions must demonstrate that the proposed substitution is superior to the material or equipment required by the Contract Documents. No exceptions, deviations or substitutions will be permitted without the approval of the Engineer.
- After the engineer reviews the submittals for conformance with the design concept of the project, the Engineer will stamp the drawings indicating their status. Since the Engineer's review is for conformance with design concept only. It is the Contractor's responsibility to coordinate the various items into a working system as specified. The Contractor shall not be relieved from responsibility for errors or omissions in the shop working, layout drawings, or other documents by the Departments approval thereof. The Contractor must be in full compliance with contract and specification requirements.

Maintenance and Responsibility.

Revise Article 801.11 to read as follows.

- a) Existing traffic signal installations and/or any electrical facilities at all or various locations may be altered or reconstructed totally or partially as part of the work on this Contract. The Contractor is hereby advised that all traffic control equipment, presently installed at these locations, may be the property of the State of Illinois, Department of Transportation, Division of Highways, Cook County Department of Transportation and Highways, Private Developer, or the Municipality in which they are located. Once the Contractor has begun any work on any portion of the project all traffic signals within the limits of this contract or those which have the item "Maintenance of Existing Traffic Signal Installation", "Temporary Traffic Signal Installation(s)" and/or "Maintenance of Existing Flashing Beacon Installation", shall become the full responsibility of the Contractor. Automatic Traffic Enforcement equipment is not owned by the County and the Contractor shall not be responsible for maintaining it during construction. The Contractor shall supply the engineer and the Department's Electrical Maintenance Contractor a 24-hour emergency contact name and telephone number.
- b) When the project has a pay item for "Maintenance of Existing Traffic Signal Installation", "Temporary Traffic Signal Installation(s)" and/or "Maintenance of Existing Flashing Beacon Installation", the Contractor must notify both the Design Engineer at (312) 603-1730 and the Department's Electrical Maintenance Contractor, of their intent to begin any physical construction work on the Contract or any portion thereof. This notification must be made a minimum of seven (7) working days prior to the start of construction to allow sufficient time for inspection of the existing traffic signal installation(s) and transfer of maintenance to the Contractor. If work is started prior to an inspection, maintenance of the traffic signal installation(s) will be transferred to the Contractor without an inspection. The Contractor will become responsible for repairing or replacing all equipment that is not operating properly or is damaged at no cost to the owner of the traffic signal. Final repairs or replacement of damaged equipment must meet the approval of the

Engineer prior to or at the time of final inspection otherwise the traffic signal installation will not be accepted.

- c) Projects which call for the storage and re-use of existing traffic signal equipment shall meet the requirements of Article 801.15(C) of the Standard Specifications, which call for a 30 day test period prior to project acceptance.
- d) Contracts such as pavement grinding or patching which result in the destruction of traffic signal loops may not require maintenance transfer, unless a pay item of "Maintenance of Existing Traffic Signal Installation" is included in the project. When the pay item of "Maintenance of Existing Traffic Signal Installation" is not included, the Contractor is required to notify of intent to work and an inspection. A minimum of seven (7) working days prior to the loop removal, the Contractor shall notify the Design Engineer at (312) 603-1730, the Department's Electrical Maintenance Contractor and the owner of automatic traffic enforcement prior to the loop removal, at which time arrangements will be made to adjust the traffic controller timing to compensate for the absence of detection. Damaged Automatic Traffic Enforcement equipment, including cameras, detectors, or other peripheral equipment, shall be replaced by others, per Permit agreements or other agreements, at no cost to the contract except for City of Chicago projects in which the detectors shall be replaced. See additional requirements in these specifications under Inductive Loop Detector.
- e) The Contractor is further advised that the existing traffic signal(s), and/or the existing temporary installation(s), must remain in operation during all construction stages except for the most essential down time. Any shutdown of the traffic signal installation(s), for a period to exceed fifteen (15) minutes, must have the prior approval of the Engineer. Such approval will generally only be granted during the period extending from 10:00 a.m. to 3:00 p.m. on weekdays. Shutdowns will not be allowed during inclement weather or during Holiday periods. Any other traffic signal shutdown, either for periods in excess of one (1) hour or outside of the 10:00 a.m. to 3:00 p.m. weekday period must have prior approval of the Engineer. The Contractor, prior to the commencement of his work, shall notify the State Electrical Maintenance Contractor, the Cook County Electrical Maintenance Contractor, or the concerned Municipality, of his intent to perform this work.
- f) The Contractor shall be fully responsible for the safe and efficient operation of the traffic signals. Any inquiry, complaint or request by the Department, the Department's Electrical Maintenance Contractor or the public, shall be investigated and repairs begun within one hour. Failure to provide this service will result in liquidated damages of \$500 per day per occurrence. In addition, the Department reserves the right to assign any work not completed within this timeframe to the Electrical Maintenance Contractor. All costs associated to repair this uncompleted work shall be the responsibility of the Contractor. Failure to pay these costs to the Electrical Maintenance Contractor within one month after the incident will result in additional liquidated damages of \$500 per month per occurrence. Unpaid bills will be deducted from the cost of the Contract. The Department's Electrical Maintenance Contractor may inspect any signaling device on the Department's highway system at any time without notification.
- g) Any proposed activity in the vicinity of a highway-rail grade crossing must adhere to the guidelines set forth in the current edition of the Manual on Uniform Traffic Control Devices (MUTCD) regarding work in temporary traffic control zones in the vicinity of highway-rail grade crossings which states that lane restrictions, flagging, or other operations shall not create conditions where

vehicles can be queued across the railroad tracks. If the queuing of vehicles across the tracks cannot be avoided, a uniformed law enforcement officer or flagger shall be provided at the crossing to prevent vehicles from stopping on the tracks, even if automatic warning devices are in place.

Damage to Traffic Signal System.

Add the following to Article 801.12(b).

- a) Any damaged equipment or equipment not operating properly from any cause whatsoever shall be repaired with new equipment provided by the contractor at no additional cost to the Contract and/or owner of the traffic signal system all as approved by the Engineer. Final repairs or replacement of damaged equipment must meet the approval of the Engineer prior to or at the time of final inspection otherwise the traffic signal will not be accepted. Cable splices outside the controller cabinet will not be allowed.
- b) Automatic Traffic Enforcement equipment, such as Red Light Enforcement cameras, detectors, and peripheral equipment, damaged or not operating properly from any cause whatsoever, shall be the responsibility of the municipality or the Automatic Traffic Enforcement Company per Permit agreement or other agreements. Except in the City of Chicago in which detectors are damaged due to a County project.

Traffic Signal Inspection (Turn – On).

Revise Article 801.15b to read as follows.

- a) The Contractor must have all electric work completed, the electrical service installation connected by the utility company and equipment field tested by the Vendor prior to the Department's "turn-on" field inspection. If in the event the Engineer determines the work is not complete and the inspection will require more than two (2) hours to complete, the inspection shall be canceled and the Contractor will be required to reschedule at another date. The maintenance of the traffic signals will not be accepted until all punch list work is corrected and re-inspected. The Department will not grant a field inspection until written certification is provided from the Contractor stating the equipment has been field tested and the intersection is operating according to Contract requirements.
- b) When the road is open to traffic, except as otherwise provided in Section 850 of the Standard Specification, the Contractor may request a turn-on and inspection of the completed traffic signal installation at each separate location. This request must be made to the Design Engineer at (312) 603-1730 a minimum of seven (7) working days prior to the time of the requested inspection. The Department will not grant a field inspection until notification is provided from the Contractor that the equipment has been field tested and the intersection is operating according to Contract requirements. The Department's facsimile number is (312) 603-9956. The Contractor must invite local fire department personnel to the turn-on when Emergency Vehicle Pre-emption (EVP) is included in the project. When the contract includes the item RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM, OPTIMIZE TRAFFIC SIGNAL SYSTEM, or TEMPORARY TRAFFIC SIGNAL TIMINGS, the Contractor must notify the SCAT Consultant of the turn-on schedule, as well as stage changes and phase changes during construction.

- c) The Contractor must have all traffic signal work completed and the electrical service installation connected by the utility company prior to requesting an inspection and turn-on of the traffic signal installation. The Contractor shall be responsible to provide a Police Officer to direct traffic at the time of testing.
- d) The Contractor shall provide a representative from the control Equipment Vendor's office to attend the traffic signal inspection for both permanent and temporary traffic signal turn-ons. Upon demonstration that the signals are operating and all work is completed in accordance with the Contract and to the satisfaction of the Engineer, the Engineer will then allow the signals to be placed in continuous operation. The Agency that is responsible for the maintenance of each traffic signal installation will assume the maintenance upon successful completion of this inspection.
- e) Acceptance of the traffic signal equipment by the Department shall be based upon inspection results at the traffic signal turn-on. If approved, traffic signal acceptance shall be verbal at the turn-on inspection followed by written correspondence from the Engineer. The Contractor shall be responsible for all traffic signal equipment and associated maintenance thereof until Departmental acceptance is granted.
- f) All equipment and/or parts to keep the traffic signal installation operating shall be furnished by the Contractor. No spare traffic signal equipment is available acceptable from the Department.
- g) All punch list work shall be completed within two (2) weeks after the final inspection. The Contractor shall notify the Design Engineer at (312) 603-1730 to inspect all punch list work. Failure to meet these time constraints shall result in liquidated damage charges of \$500 per month per incident.
- h) All cost of work and materials required to comply with the above requirements shall be included in the pay item bid prices under which the subject materials and signal equipment are paid and no additional compensation will be allowed. Materials and signal equipment not complying with the above requirements that have been installed on the job will be at the Contractor's own risk and shall be subject to removal and disposal at the Contractor's expense.
- i) The Contractor shall furnish the Cook County Department of Transportation and Highways with any special tools or wrenches that may be required for assembling or maintaining the control equipment and traffic control signal head assemblies.
- j) All control cable, when complete in place but before permanent connection, shall be subject to insulation tests at the discretion of the Engineer. The tests shall be made with approved insulation resistance testing equipment rated at 500 volts D.C. and witnessed by the Engineer. Results of these tests shall be submitted to the Department in written form, bearing the Engineers signature and shall become part of the project records. A final inspection of the traffic signal installation shall not be held until results of this insulation test have been received.
- k) All equipment such as new controllers and allied central equipment with the exception of cable, conduit, and other materials which require the use of the State of Illinois Materials Testing Laboratories, shall be built in the suppliers shop and inspected by a representative of this Department prior to the installation of such equipment, and upon approval of this equipment an inspection ticket will be issued to the Contractor by the inspection agency (State of Illinois Material Testing Laboratory or the Cook County Transportation and Highways Mechanical-Electrical

Section). The controller and allied control equipment shall be prepared in the suppliers shop and run under a load of a minimum of 500 watts per phase for at least 48 hours before it is inspected for proper operation and sequencing. After it passes this test an inspection ticket will be issued by the Cook County Transportation and Highways Mechanical-Electrical Section representative and it can then be delivered to the job site for installation.

- l) Upon completion of the installation, a final inspection will be carried out by qualified representatives of the Highway Agencies involved.
- m) If the Contractor fails to comply with any of the aforementioned requirements, the County shall impose such sanction as it may determine to be appropriate including but not limited to withholding all payments to the Contractor on this contract until the provisions of this special provision are complete with and/or implementation of article 108.10 of the standard specifications.

At the final inspection it will be required that the Contractor will have submitted to the Engineer all necessary inspection tickets for all new equipment and materials installed under this Contract. If the Contractor has not obtained the inspection tickets on any portion of the new equipment and materials, the representative of this Department will have the authority to postpone the final inspection until such time as the above has been satisfied. Any postponement of the final inspection for this reason shall not relieve the Contractor of his full maintenance responsibilities until such time as the installation is re-inspected and accepted by the County.

The County requires the following from the Contractor at traffic signal turn-on.

- 1) The Contractor shall, at the turn-on furnish one set of signal plans (24"x36") of record with field revisions marked in red ink to the maintaining agency.
- 2) Written notification from the Contractor and the Equipment Vendor of satisfactory field testing.
- 3) A knowledgeable representative of the controller equipment supplier shall be required at the permanent and temporary traffic signal turn-on. The representative shall be knowledgeable of both cabinet design and controller functions and shall have sufficient test and spare equipment to make the traffic signal installation operational.
- 4) A copy of the approved material letter.
- 5) One (1) copy of the operation and service manuals of the signal controller and associated control equipment.
- 6) Five (5) copies 11" x 17" (280 mm X 430 mm) or 22" x 34" (560 mm x 860 mm) of the cabinet wiring diagrams and cable logs.
- 7) The controller manufacturer shall supply a printed form, not to exceed 11" x 17" (280 mm x 430 mm), for recording the traffic signal controller's timings; backup timings, coordination splits, offsets, cycles; TBC; Time of Day, week and year programs; traffic responsive program, detector phase assignment, type and detector switching; and any other functions programmable from the keyboard. The form shall include a location, date, manufacturers name, controller model and software version. The form shall be approved by the Engineer and a minimum of three (3) copies must be furnished at each turn-on. The manufacturer must provide all programming information used within the controller at the time of turn-on.

8) All Manufacturer and Contractor warranties and guaranties required by Article 801.14.

RECORD DRAWINGS

The requirements listed for Electrical Installation shall apply for Traffic Signal Installations in Article 801.16. Revise the 2nd paragraph of Article 801.16 of the Standard Specifications to read:

- a. "When the work is complete, and seven days before the request for a final inspection, the full-size set of contract drawings. Stamped "RECORD DRAWINGS", shall be submitted to the Engineer for review and approval and shall be stamped with the date and the signature of the Contractor's supervising Engineer or electrician. The record drawings shall be submitted in PDF format on CDROM as well as hardcopy for review and approval.
- b. In addition to the record drawings, copies of the final catalog cuts which have been Approved or Approved as Noted shall be submitted in PDF format along with the record drawings. The PDF files shall clearly indicate the pay item either by filename or PDF Table of Contents referencing the respective pay item number for multi-item PDF files. Specific part or model numbers of items which have been selected shall be clearly visible."

Add the following to Article 801.16 of the Standard Specifications:

"In addition to the specified record drawings, the Contactor shall record GPS coordinates of the following traffic signal components being installed, modified or being affected in other ways by this contract:

- All Mast Arm Poles and Posts
- Handholes
- Conduit roadway crossings
- Controller Cabinets
- Communication Cabinets
- Electric Service Disconnect locations
- CCTV Camera installations
- Fiber Optic Splice Locations

Datum to be used shall be North American 1983.

Data shall be provided electronically and in print form. The electronic format shall be compatible with MS Excel. Latitude and Longitude shall be in decimal degrees with a minimum of 6 decimal places. Each coordinate shall have the following information:

1. Description of item
2. Designation or approximate station if the item is undesignated
3. Latitude
4. Longitude

Examples:

Description	Designation	Latitude	Longitude
Mast Arm Pole Assembly (dual, combo, etc)	MP (SW, NW, SE or NE corner)	41.580493	-87.793378
FO mainline splice handhole	HHL-ST31	41.558532	-87.792571
Handhole	HH	41.765532	-87.543571
Electric Service	Elec Srv	41.602248	-87.794053
Conduit crossing	SB IL83 to EB I290 ramp SIDE A	41.584593	-87.793378
PTZ Camera	PTZ	41.584600	-87.793432
Signal Post	Post	41.558532	-87.792571
Controller Cabinet	CC	41.651848	-87.762053
Master Controller Cabinet	MCC	41.580493	-87.793378
Communication Cabinet	ComC	41.558532	-87.789771
Fiber splice connection	Toll Plaza34	41.606928	-87.794053

Prior to the collection of data, the contractor shall provide a sample data collection of at least six data points of known locations to be reviewed and verified by the Engineer to be accurate within 100 feet. Upon verification, data collection can begin. Data collection can be made as construction progresses, or can be collected after all items are installed. If the data is unacceptable the contractor shall make corrections to the data collection equipment and or process and submit the data for review and approval as specified.

Accuracy. Data collected is to be mapping grade. A handheld mapping grade GPS device shall be used for the data collection. The receiver shall support differential correction and data shall have a minimum 5 meter accuracy after post processing.

GPS receivers integrated into cellular communication devices, recreational and automotive GPS devices are not acceptable.

The GPS shall be the product of an established major GPS manufacturer having been in the business for a minimum of 6 years."

Location of Underground State and County Maintained Facilities.

Revise Article 803 to read as follows.

If this contract requires the services of an electrical contractor, the Contractor shall be responsible at his/her own expense for locating existing IDOT and CCDOTH facilities prior to performing any work. If this contract does not require the services of electrical contractor, the Contractor may request one free locate for existing IDOT and CCDOTH electrical facilities from the Electrical Maintenance Contractor(s) prior to the start of any work. Additional requests may be at the expense of the Contractor. The location of underground traffic facilities does not relieve the Contractor of their responsibility to repair any facilities damaged during construction at their expense.

The exact location of all utilities shall be field verified by the Contractor before the installation of any components of the traffic signal system. For locations of utilities, locally owned equipment, and leased enforcement camera system facilities, the local Counties or Municipalities may need to be contacted, in the City of Chicago contact D.I.G.G.E.R. at (312) 744-7000 and for all other locations contact J.U.L.I.E. at 1-800-892-0123 or 811.

**SPECIAL PROVISION
FOR
LIGHT EMITTING DIODE (LED) TRAFFIC SIGNAL**

This work shall consist of furnishing and installing a traffic signal head or pedestrian signal head with light emitting diodes (LED) of the type specified in the plan or retrofitting an existing traffic signal head with a traffic signal module or pedestrian signal module with LEDs as specified in the plans.

LED signal heads (All Face and Section Quantities), (All Mounting Types) shall conform fully to the requirements of Sections 880 and 881 and Articles 1078.01 and 1078.02 of the Standard Specifications amended herein:

All signal and pedestrian heads shall provide 12" (300 mm) displays with glossy yellow or black polycarbonate housings. All head housings shall be the same color (yellow or black) at the intersection. For new signalized intersections and existing signalized intersections where all signal and/or pedestrian heads are being replaced, the proposed head housings shall be black. Where only selected heads are being replaced, the proposed head housing color (yellow or black) shall match existing head housings. Connecting hardware and mounting brackets shall be polycarbonate (black). A corrosion resistant anti-seize lubricant shall be applied to all metallic mounting bracket joints, and shall be visible to the inspector at the signal turn-on. Post top mounting collars are required on all posts, and shall be constructed of the same material as the brackets.

Pedestrian signal heads shall be furnished with the international symbolic "Walking Person" and "Upraised Palm" displays. Egg crate sun shields are not permitted.

Signal heads shall be positioned according to the "District One Standard Traffic Signal Design Details.

1. The LED signal modules shall be replaced or repaired if an LED signal module fails to function as intended due to workmanship or material defects within the first 60 months from the date of delivery. LED signal modules which exhibit luminous intensities less than the minimum values specified in Table 1 of the ITE Vehicle Traffic Control Signal Heads: Light Emitting Diode (LED) Circular Signal Supplement (June 27, 2005) [VTSCH] or applicable successor ITE specifications, or show signs of entrance of moisture or contaminants within the first 60 months of the date of delivery shall be replaced or repaired. The manufacturer's written warranty for the LED signal modules shall be dated, signed by an Officer of the company and included in the product submittal to the County.

(a) Physical and Mechanical Requirements

1. Modules can be manufactured under this specification for the following faces:
 - a. 12 inch (300 mm) circular, multi-section
 - b. 12 inch (300 mm) arrow, multi-section
2. The maximum weight of a module shall be 4 lbs. (1.8 kg).

3. Each module shall be a sealed unit to include all parts necessary for operation (a printed circuit board, power supply, a lens and gasket, etc.), and shall be weather proof after installation and connection.
4. Material used for the lens and signal module construction shall conform to ASTM specifications for the materials.
5. The lens of the module shall be tinted with a wavelength-matched color to reduce sun phantom effect and enhance on/off contrast. The tinting shall be uniform across the lens face. Polymeric lens shall provide a surface coating or chemical surface treatment applied to provide abrasion resistance. The lens of the module shall be integral to the unit, convex with a smooth outer surface and made of plastic. The lens shall have a textured surface to reduce glare.
6. The use of tinting or other materials to enhance ON/OFF contrasts shall not affect chromaticity and shall be uniform across the face of the lens.
7. Each module shall have a symbol of the type of module (i.e. circle, arrow, etc.) in the color of the module. The symbol shall be 1 inch (25.4 mm) in diameter. Additionally, the color shall be written out in 1/2 inch (12.7mm) letters next to the symbol.

(b) Photometric Requirements

1. The minimum initial luminous intensity values for the modules shall conform to the values in Table 1 of the VTCSH (2005) for circular signal indications, and as stated in Table 3 of these specifications for arrow and pedestrian indications at 25°C.
2. The modules shall meet or exceed the illumination values stated in Article 1078.01(3)c of the Standard Specifications for circular signal indications, and Table 3 of these specifications for arrow and pedestrian indications, throughout the useful life based on normal use in a traffic signal operation over the operating temperature range.
3. The measured chromaticity coordinates of the modules shall conform to the chromaticity requirements of Section 4.2 of the VTCSH (2005) or applicable successor ITE specifications.
4. The LEDs utilized in the modules shall be AlInGaP technology for red, yellow, Portland orange (pedestrian) and white (pedestrian) indications, and GaN for green indications, and shall be the ultra bright type rated for 100,000 hours of continuous operation from -40°C to +74°C.

(c) Electrical

1. Maximum power consumption for LED modules is per Table 2.
2. Operating voltage of the modules shall be 120 VAC. All parameters shall be measured at this voltage.
3. The modules shall be operationally compatible with currently used controller assemblies (solid state load switches, flashers, and conflict monitors).

4. When a current of 20 mA AC (or less) is applied to the unit, the voltage read across the two leads shall be 15 VAC or less.
5. The LED modules shall provide constant light output under power. Modules with dimming capabilities shall have the option disabled or set on a non-dimming operation.
6. The individual LEDs shall be wired such that a catastrophic loss or the failure of one or more LED will not result in the loss of the entire module.

(d) Retrofit Traffic Signal Module

1. The following specification requirements apply to the Retrofit module only. All general specifications apply unless specifically superseded in this section.
 2. Retrofit modules can be manufactured under this specification for the following faces:
 - a. 12 inch (300 mm) circular, multi-section
 - b. 12 inch (300 mm) arrow, multi-section
 3. Each Retrofit module shall be designed to be installed in the doorframe of a standard traffic signal housing. The Retrofit module shall be sealed in the doorframe with a one-piece EPDM (ethylene propylene rubber) gasket.
 4. The maximum weight of a Retrofit module shall be 4 lbs. (1.8 kg).
 5. Each Retrofit module shall be a sealed unit to include all parts necessary for operation (a printed circuit board, power supply, a lens and gasket, etc.), and shall be weather proof after installation and connection.
 6. Electrical conductors for modules, including Retrofit modules, shall be 39.4 inches (1m) in length, with quick disconnect terminals attached.
 7. The lens of the Retrofit module shall be integral to the unit, shall be convex with a smooth outer surface and made of plastic or of glass.
- (e) The following specification requirements apply to the 12 inch (300 mm) arrow module only. All general specifications apply unless specifically superseded in this section.
1. The arrow module shall meet specifications stated in Section 9.01 of the Equipment and Material Standards of the Institute of Transportation Engineers (November 1998) [ITE Standards], Chapter 2 (Vehicle Traffic Control Signal Heads) for arrow indications.
 2. The LEDs arrow indication shall be a solid display with a minimum of three (3) outlining rows of LEDs and at least one (1) fill row of LEDs.
- (f) The following specification requirement applies to the 12 inch (300 mm) programmed visibility PV module only. All general specifications apply unless specifically superseded in this section.

1. The module shall be a module designed and constructed to be installed in a programmed visibility (PV) signal housing without modification to the housing.
- (g) The following specification requirements apply to the 12 inch (300 mm) Pedestrian module only. All general specifications apply unless specifically superseded in this section.
1. Each pedestrian signal LED module shall provide the ability to actuate the solid upraised hand and the solid walking person on one 12 inch (300mm) section.
 2. Two (2) pedestrian sections shall be installed. The top section shall be wired to illuminate only the upraised hand and the bottom section shall be the walking man.
 3. "Egg Crate" type sun shields are not permitted. All figures must be a minimum of 9 inches (225mm) in height and easily identified from a distance of 120-feet (36.6m).

Basis of Payment. This item shall be paid for at the contract unit price EACH for SIGNAL HEAD, LED, or OPTICALLY PROGRAMMED SIGNAL HEAD, LED, PEDESTRIAN SIGNAL HEAD, LED, of the type specified, which price shall be payment in full for furnishing the equipment described above including signal head, LED(s) modules, all mounting hardware, and installing them in satisfactory operating condition. The type specified will indicate the number of signal faces, the number of signal sections, and the method of mounting.

When installed in an existing signal head, this item shall be paid for at the contract unit price EACH for SIGNAL HEAD, LED, OPTICALLY PROGRAMMED SIGNAL HEAD, LED, PEDESTRIAN SIGNAL HEAD, LED of the type specified, RETROFIT, which price shall be payment in full for furnishing the equipment described above including LED(s) modules, all mounting hardware, and installing them in satisfactory operating condition. The type specified will indicate the number of signal faces, the number of signal sections, and the method of mounting.

**SPECIAL PROVISION
FOR
TRAFFIC SIGNAL BACKPLATE**

The furnishing and installation of this item shall meet the requirements of Section 882 and 1078.03 of the Standard Specifications, except as follows:

Backplates shall be aluminum and louvered with a minimum thickness of 0.05 inch (1.3 mm).

The surface of the backplate shall provide openings (louvers) to allow wind to penetrate and thereby reduce the wind loading on the mast arm and pole. The louver openings shall cover a minimum of twenty (20) percent of the surface area of the backplate. The louvers shall be designed not to deter the purpose of the backplate, which is to shield the signal lens from sunlight. The louvers shall be spaced symmetrically on the backplate in such a way as not to adversely affect its structural integrity.

When more than one backplate is mounted on a pole or post, their louvered symmetry shall be the same.

When retro reflective sheeting is specified, it shall be Type ZZ sheeting according to Article 1091.03 and applied in preferred orientation for the maximum angularity according to the manufacturer's recommendations. The retro reflective sheeting shall be installed under a controlled environment at the manufacturer/supplier before shipment to the contractor. The aluminum backplate shall be prepared and cleaned, following recommendations of the retro reflective sheeting manufacturer.

The reflective backplate shall not contain louvers.

Basis of Payment. This work will be paid for at the contract unit price EACH for TRAFFIC SIGNAL BACKPLATE, of the type specified, which price shall be payment in full for furnishing and installing the traffic signal backplate complete.

**SPECIAL PROVISION
FOR
TRAFFIC SIGNAL POST AND PEDESTRIAN PUSHBUTTON POST**

The furnishing and installation of this item shall meet the requirements of Sections 106.01, 875, 876, 1077.01 and 1077.02 of the Standard Specifications, except as follows:

All posts (steel), bases (cast iron), and related mounting hardware shall be hot-dipped galvanized in accordance with AASHTO M 111. A magnetic field tester may be utilized at any time to determine the thickness of galvanization. Average galvanization thickness shall be 2.0 oz. per square foot and minimum thickness shall be 1.8 oz. per square foot. The Contractor shall use a fabric post tightener to attach the post to the base. If the galvanization on the post is removed using a chain post tightener exposing bare metal, the post shall be rejected and replaced with a new post.

All iron and steel products, which are to be incorporated into work shall be domestically manufactured or produced and fabricated. The contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements.

If the fabricator elects to cut and thread the post after the galvanization process, the bare metal shall immediately be cleaned to remove all cutting solvents and oils, then sprayed with two (2) coats of "Brite Zinc" galvanized compound manufactured by Brite Products, or an approved equal. Any scratches shall be repaired with "Brite Zinc". If the Department approves painting, powder coating by the manufacturer will be required over the galvanizing.

Bases shall be cast iron and octagonal in shape, approximately 15 inches (375 mm) high and 16 inches (400 mm) across the flat sides at the bottom. All bases shall be designed to accept four (4) 5/8" (15.6 mm) diameter anchor bolts evenly spaced in a 12-1/2" (312 mm) diameter circle.

Welded extensions onto the post shall not be permitted.

Posts are to erected plumb and no shims are allowed between the bottom of the base and the foundation.

When a new post is installed on an existing foundation, the foundation shall be plumbed before the post is installed. It shall not be paid for separately but shall be included in cost for Traffic Signal Post or Pedestrian Push-Button Post.

Basis of Payment. This work will be paid for at the contract unit price EACH for TRAFFIC SIGNAL POST, GALVANIZED STEEL, of the length specified or PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I or TYPE II, which price shall be payment in full for furnishing and installing the traffic signal post, base, foundation for pedestrian post, nuts and washers, and pipe cap complete.

**SPECIAL PROVISION
FOR
STEEL MAST ARM ASSEMBLY AND POLE AND/OR STEEL
COMBINATION MAST ARM ASSEMBLY AND POLE**

The furnishing and installation of a steel mast arm assembly and pole and/or steel combination mast arm assembly and pole shall meet the requirements of Section 106.01, 877 and 1077.03 of the Standard Specifications, Plans, and the Standard Drawings for Mast Arm Assembly and Pole, except as follows:

All iron and steel products, which are to be incorporated into work shall be domestically manufactured or produced and fabricated. The contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements.

The steel mast arm assembly and pole and steel combination mast arm assembly and pole shall consist of a traffic signal mast arm, a Luminaire mast arm or davit (for combination pole only), a pole, and a base, together with anchor rods and other appurtenances. The configuration of the mast arm assembly, pole, and base shall be according to the details shown on the plans.

The mast arm assembly and pole, and combination mast arm assembly pole shall be designed for the loading shown on the Highway Standards or elsewhere on the plans whichever is greater. The design shall be according to AASHTO "Standard Specification for Structural Supports for Highway Signs, Luminaries And Traffic Signals" 1994 edition for 80 mph (130km/hr) wind velocity.

However, the arm to pole connection for tapered signal and Luminaire arms shall be according to the "ring plate" detail as shown in Figure 11-1(f) of the 2002 Interim, to the AASHTO to "Standard Specification for Structural Supports for Highway Signs, Luminaire and Traffic Signals" 2001 4th edition.

Prior to the final acceptance of any steel mast arm assembly and pole and/or steel combination mast arm assembly and pole, the Contractor must furnish to the Engineer a certified, notarized mill analysis of the material used in the steel mast arm assembly and pole and/or steel combination mast arm assembly and pole complete including any other requirements in the Special Provision or Specifications.

The steel mast arm assembly and pole and/or steel combination mast arm assembly and pole furnished shall conform to the Standard Drawings for Mast Arm Assembly and Pole. The traffic signal mast arms shall be of one-piece construction, unless otherwise approved by the Engineer. All poles shall be galvanized.

All bolts on the mast arm assembly and pole and foundation to have a minimum exposure of at least one thread outside the nut when fully tightened.

The components of a steel mast arm assembly and pole and/or steel combination mast arm assembly and pole shall be assembled and erected in accordance with the details shown on the plans. The pole shall be erected vertically on a concrete foundation. The Contractor shall furnish

and install leveling and locking nuts and required washers for mounting and plumbing the pole on the anchor bolts. Prior to the approval of the installation, the Contractor shall brush or spray on two (2) coats of "Brite Zinc" galvanized compound to any scratched areas. The pole shall be grounded to a ground rod in accordance with the details shown on the plans.

The base of the mast arm pole shall be protected by a galvanized steel or extruded aluminum shroud for protection of the mast arm pole base plate similar to the dimensions detailed in the "District 1 Standard Traffic Signal Design Details." The shroud shall be of sufficient strength to deter pedestrian and vehicular damage. The shroud shall allow air to circulate throughout the mast arm but not allow manifestation of insects or other animals and such that it is not hazardous to probing fingers and feet. All mounting hardware shall be stainless steel. The Shroud shall not be paid for separately but shall be included in the cost of the mast arm assembly and pole.

The steel mast arm assembly and pole and/or steel combination mast arm assembly and pole shall be designed to support signal heads, signs, illuminated signs, luminare, camera and other attachments as shown on the plans. Refer to the Standard Drawings for Mast Arm Assembly and Pole for design loadings and projected area with wind load based on an 80 mile per hour (130 km/h) wind velocity plus 30 percent gust factor.

Structural Steel Grade. The mast arm and pole shall be fabricated according to ASTM A 595, Grade A or B, ASTM A 572 Grade 55, or ASTM A 1011 Grade 55 HSLAS Class 2. The base and flange plates shall be of structural steel according to AASHTO M 270 Grade 50 (M 270M Grade 345). Luminaire arms and trussed arms 15 ft (4.5 m) or less shall be fabricated from one steel pipe or tube size according to ASTM A 53 Grade B or ASTM A 500 Grade B or C. All mast arm assemblies, poles, and bases shall be galvanized according to AASHTO M 111.

Fabrication. The design and fabrication of the mast arm assembly, pole, and base shall be according to the requirements of the Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals published by AASHTO. The mast arm and pole may be of single length or sectional design. If section design is used, the overlap shall be at least 150 percent of the maximum diameter of the overlapping section and shall be assembled in the factory.

The manufacturer will be allowed to slot the base plate in which other bolt circles may fit, provided that these slots do not offset the integrity of the pole. Circumferential welds of tapered arms and poles to base plates shall be full penetration welds.

Shop Drawing Approval. The contractor shall submit detailed drawings showing design materials, thickness of sections, weld sizes, and anchor rods to the Engineer for approval prior to fabrication. These drawings shall be at least 11X17 in. (275X425 mm) in size and of adequate quality for microfilming. All product data and shop drawings shall be submitted in electronic form on CD-ROM.

Anchor Rods. The anchor rods shall be ASTM F 1554 Grade 105, coated by the hot-dip galvanizing process according to AASHTO M 232, and shall be threaded a minimum of 7 1/2 in. (185 mm) at one end and have a bend at the other end. The first 12 in. (300 mm) at the threaded end shall be galvanized. Two nuts, one lock washer, and one flat washer shall be furnished with each anchor rod. All nuts and washers shall be galvanized.

In addition to the signal loading, the steel mast arm assembly and pole, and/or steel combination mast arm assembly and pole shall be structurally adequate to support a maximum of two (2) sign panels 30" x 72" (750 mm x 1,800 mm) in size mounted back to back, one LED street sign 96 5/8" x 22 5/16" with 92 pounds and one (1) sign panels 30" x 24" (750 mm x 600 mm) in size mounted from 3 feet (900 mm) from end of the mast arm. The actual size and number of the sign panel(s) to be furnished and installed and the details of mounting shall be as shown on the County Standard Drawing of "ILLUMINATED STREET NAME SIGN MOUNTING DETAIL".

Signs attached to poles or posts (such as mast arm signs) shall have mounting brackets and sign channels which are equal to and completely interchangeable with those used by the Department. Signfix Aluminum Channel Framing System is currently recommended, but other brands of mounting hardware are acceptable based upon the Department's approval.

Basis of Payment. This work will be paid for at the contract unit price EACH for STEEL MAST ARM ASSEMBLY AND POLE, and/or STEEL COMBINATION MAST ARM ASSEMBLY AND POLE of the size(s) specified which price shall be payment in full for furnishing and installing the steel mast arm assembly and pole and/or steel combination mast arm assembly and pole, anchor bolts, nuts, washers, and connected to a ground rod as shown on the Standard, complete.

**SPECIAL PROVISION
FOR
TRAFFIC ACTUATED CONTROLLER
TRAFFIC ACTUATED CONTROLLER WITH CABINET
INDUCTIVE LOOP DETECTOR**

The furnishing and installation of a traffic actuated controller and an inductive loop detector shall meet the requirements of Section 857, 885, 1073, 1074.03 and 1079.01 of the Standard Specifications, except as revised with this Special Provision.

The new and/or temporary controller and all control equipment shall be of a manufacturer that is approved by this Department. The manufacturer shall have a representative located in the six (6) county Chicago areas. The Controller shall be NTCIP compliant NEMA TS2 type 1 Econolite ASC/3S-1000 or Eagle/Siemens M50 unless specified otherwise on the plans or elsewhere on these specifications. The controller shall be the most recent model and software version supplied by the manufacturer at the time of the approval and include the standard data key. The traffic signal controller shall provide features to inhibit simultaneous display of a circular yellow ball and a yellow arrow display. Individual load switches shall be provided for each vehicle, pedestrian, and right turn over lap phase. The controller shall prevent phases from being skipped during program changes and after all pre-emption events.

The contractor shall contact CCDOTH and coordinate to the installation of a standard voice-grade dial-up telephone line to the FULL-ACTUATED CONTROLLER AND CABINET, RAILROAD as called for on the traffic signal installation plans. If the traffic signal installation is part of a traffic signal system, a telephone line is usually not required, unless a telephone line is called for on the traffic signal plans. The contractor shall follow the requirements for the telephone service installation as contained in the current traffic signal special provisions under Master Controller.

The malfunction monitor unit shall be an EDI Model MMU-16E or equivalent.

Contracts requiring new cabinets shall provide for rack mounted detector amplifier cards. Detector amplifiers shall be provided with LCD displays with loop frequency, inductance and change of inductance readings. When calling detectors are called for on the plans, the amplifier shall have the capability of providing vehicle calls to a particular phase when that phase is not in use.

Cabinets shall be designed for NEMA TS2 Type 1 operation. The cabinet shall provide a minimum of sixteen (16) pre-wired load bays for eight (8) phases of vehicular, four (4) phases of pedestrian and four (4) phases of overlap operation and pedestrian pushbutton isolation. Isolation cards will be required for all pedestrian pushbuttons.

- Cabinets – Provide 1/8" (3.2 mm) thick unpainted aluminum alloy 5052-H32. The surface shall be smooth, free of marks and scratches. All external hardware shall be stainless steel.
- Controller Harness – Provide a TS2 Type 2 "A" wired harness in addition to the TS2 Type 1 harness.
- Surge Protection – Plug-in type EDCO SHA-1250 or Atlantic/Pacific approved equal.
- BIU – Containment screw required.
- Transfer Relays – Solid state or mechanical flash relays are acceptable.
- Switch Guards – All switches shall be guarded.

- The controller cabinet must have two (2) porcelain light fixtures with metal cage protection controlled by a separate toggle switch, and a thermostat at County cabinet only.
- Plan & Wiring Diagrams – 12" x 16" (305 mm x 406 mm) or 22" x 34" (560 mm x 860 mm) moisture sealed container attached to door.
- Detector Racks – Fully wired and labeled for four (4) channels of emergency vehicle pre-emption and sixteen channels (16) of vehicular operation.
- Field Wiring Labels – All field wiring shall be labeled.
- Field Wiring Termination – Approved channel lugs required.
- Power Panel – Provide a nonconductive shield.
- Circuit Breaker – The circuit breaker shall be sized for the proposed load but shall not be rated less than 30 amps.
- Police Door – Provide wiring and termination for plug in manual phase advance switch.
- Railroad Pre-Emption Test Switch – Eaton 8830K13 SHA 1250 or equivalent.
- Heating – One (1) 200 watt, thermostatically-controlled, Hoffman electric heater, or approved equivalent at IDOT intersection only.
- Lighting – One (1) LED Panel shall be placed inside the cabinet top panel and one (1) LED Panel shall be placed on each side of the pull-out drawer/shelf assembly located beneath the controller support shelf. The LED Panels shall be controlled by a wall switch. Relume Traffic Control Box LED Panels and power supply or approved equivalent.
- The cabinet shall be equipped with a pull-out drawer/shelf assembly. A 1 ½ inch (38mm) deep drawer shall be provided in the cabinet, mounted directly beneath the controller support shelf. The drawer shall have a hinged top cover and shall be capable of accommodating one (1) complete set of cabinet prints and manuals. This drawer shall support 50 lbs. (23 kg) in weight when fully extended. The drawer shall open and close smoothly. Drawer dimensions shall make maximum use of available depth offered by the controller shelf and be a minimum of 24 inches (610mm) wide.
- When "Full Actuated Controller and Cabinet, Type Super P" is used, the cabinet housing shall have the following nominal outside dimensions: a width of 59 in., a depth of 26 in., and a height of 57 in. The cabinet shall have a integrated Uninterruptible Power Supply compartment which holds the backup system and batteries. The battery portion of the cabinet shall be separated from the controller equipment portion of the cabinet by 1/8 inch thick aluminum 5052-H32. The bottom of the battery portion of the cabinet shall be 1/8 inch thick aluminum 5052-H-32. The battery cabinet door shall meet the same specifications as the controller portion except that the door hinge is 14 gage stainless steel with 0.12 stainless steel pin. The Battery compartment has three adjustable shelves, full width, 12" deep standard.,
- A GE KeySafe Slimline Pushbutton Lockbox or approved equal shall be provided in the cabinet.

Controller and cabinet interconnected with railroads shall be new and NEMA TS2 type 1. In addition to the aforementioned equipment specifications, the following shall apply to railroad interconnected equipment:

Controller shall comply with Article 1073.01 as amended in these Traffic Signal Special Provisions.

Controller Cabinet and Peripheral Equipment shall comply with Article 1074.03 as amended in these Traffic Signal Special Provisions.

Add the following to Articles 1073.01 (c) (2) and 1074.03 (a) (5) (e) of the Standard Specifications:

Controllers and cabinets shall be new and NEMA TS2 Type 1 design.

A method of monitoring and/or providing redundancy to the railroad preemptor input to the controller shall be included as a component of the Railroad, Full Actuated Controller and Cabinet installation and be verified by the traffic signal equipment supplier prior to installation.

Railroad interconnected controllers and cabinets shall be supplied and assembled only by an approved IDOT closed loop traffic signal equipment supplier. All railroad interconnected (including temporary railroad interconnect) controllers and cabinets shall be new, built, tested and approved by the controller equipment vendor, in the vendor's District One facility, prior to field installation. The vendor shall provide the technical equipment and assistance as required by the Engineer to fully test this equipment.

Basis of Payment. This work will be paid for at the contract unit price EACH for INDUCTIVE LOOP DETECTOR, and/or FULL-ACTUATED CONTROLLER AND CABINET or RAILROAD, FULL ACTUATED CONTROLLER AND CABINET (if required) of the type specified, which price shall be payment in full for furnishing and installing the inductive loop detector complete with all harnesses and connections for proper operation, and/or for furnishing and installing the controller complete, including malfunction monitor unit, load switches, flashers, flash transfer relays, etc. in a new cabinet or an existing cabinet as specified, with the necessary connections for proper operation.

**SPECIAL PROVISION
FOR
DETECTOR LOOP**

This work shall consist of furnishing and installing detector loop in accordance with the requirements of Section 886 and 1079 of the Standard Specifications, except as follows:

Description.

This work shall consist of furnishing and installing a detector loop in the pavement.

Procedure.

A minimum of seven (7) working days prior to the Contractor cutting loops, the Contractor shall have the proposed loop locations marked and contact the CCDOTH Design Engineer at (312) 603-1730 to inspect and approve the layout. When preformed detector loops are installed, the Contractor shall have them inspected and approved prior to the pouring of the portland cement concrete surface, using the same notification process as above.

Installation.

Each loop lead-in shall be placed in a separate conduit from edge of pavement to handhole. Loop detectors shall be installed according to the requirements of the "District 1 Standard Traffic Signal Design Details". Saw-cuts (homerun on preformed detector loops) from the loop to the edge of pavement shall be made perpendicular to the edge of pavement when possible in order to minimize the length of the saw cut (homerun on preformed detector loops) unless directed otherwise by the Engineer or as shown on the plans. Spacing between the lead-ins (holes drilled in the pavement) shall not be less than one (1) foot (300 mm) and shall be located one (1) foot (300 mm) from the edge of pavement. Loop lead-in wires should be twisted to provide a minimum of five (5) turns per foot (fifteen [15] turns per meter) from the loop to the splice.

The cable splice connection of the detector loop and the lead-in cable to the controller shall conform to Section 873 of the Standard Specifications or the requirements set forth in the "District 1 Standard Traffic Signal Design Details".

Each loop detector lead-in wire shall be labeled in the handhole using a Panduit PLFIM water proof tag or approved equal secured to each wire with nylon ties. The lead-in wire, including all necessary connections for proper operation, from the edge of pavement to the handhole shall be incidental to the price of the detector loop.

The detector loop cable insulation shall be labeled with the cable specifications.

Resistance to ground shall be a minimum of 100 megohms under any conditions of weather or moisture. Inductance shall be more than 50 and less than 700 microhenries. Quality readings shall be greater than 5.

Type 1:

- All loops installed in new asphalt pavement shall be installed in the binder course and not in the surface course. The edge of pavement or the curb shall be cut with a 1/4" (6.3 mm) x 4" (100 mm) long sawcut to mark the location of each loop lead-in.

- Loop sealant shall be a two-component thixotropic chemically cured polyurethane either Chemque Q-Seal 295, Perol Elastic Cement A/C Grade or an approved equal. The sealant shall be installed 1/8" (3 mm) below the pavement surface, if installed above the surface the overlap shall be removed immediately.
- Detector loop measurements shall include the sawcut and the length of the loop lead-in leading to the edge of pavement. The lead-in wire, including all necessary connections for proper operations, from the edge of pavement to the handhole, shall be incidental to the price of the detector loop. Unit duct, trench and backfill, and drilling of pavement or handholes shall be incidental to detector loop quantities.
- The corners of all loops shall be core drilled with a two (2) inch (50 mm) bit. All joints and cracks in the pavement that the loop crosses must be core drilled.

Preformed:

This work shall consist of furnishing and installing a rubberized heat resistant preformed traffic signal loop in accordance with the Standard Specifications, except for the following:

- Preformed detector loops shall be installed in new pavement constructed of portland cement concrete using mounting chairs or tied to re-bar or the preformed detector loops may be placed in the sub-base. Loop lead-ins shall be extended to a temporary protective enclosure near the proposed handhole location. The protective enclosure shall provide sufficient protection from other construction activities and may be buried for additional protection.
- Handholes shall be placed next to the shoulder or back of curb when preformed detector loops enter the handhole. Non-metallic coilable duct, included in this pay item, shall be used to protect the preformed lead-ins from back of curb to the handhole.
- Preformed detector loops shall be factory assembled with ends capped and sealed against moisture and other contaminants. Homeruns and interconnects shall be pre-wired and shall be an integral part of the loop assembly. The loop configurations and homerun lengths shall be assembled for the specific application. The loop and homerun shall be constructed using 11/16" (17.2 mm) outside diameter (minimum), 3/8" (9.5 mm) inside diameter (minimum) Class A oil resistant synthetic cord reinforced hydraulic hose with 250 psi (1,720 kpa) internal pressure rating or a similar sized XLPE cable jacket. Hose for the loop and homerun assembly shall be one continuous piece. No joints or splices shall be allowed in the hose except where necessary to connect homeruns or interconnects to the loops. This will provide maximum wire protection and loop system strength. Hose tee connections shall be heavy duty high temperature synthetic rubber. The tee shall be of proper size to attach directly to the hose, minimizing glue joints. The tee shall have the same flexible properties as the hose to insure that the whole assembly can conform to pavement movement and shifting without cracking or breaking. For XLPE jacketed preformed loops, all splice connections shall be soldered, sealed,

and tested before being sealed in a high impact glass impregnated plastic splice enclosure. The wire used shall be #16 THWN stranded copper.

The number of turns in the loop shall be application specific. Homerun wire pairs shall be twisted a minimum of four turns per foot. No wire splices will be allowed in the preformed loop assembly. The loop and homeruns shall be filled and sealed with a flexible sealant to insure complete moisture blockage and further protect the wire. The preformed loops shall be constructed to allow a minimum of 6.5 feet of extra cable in the handhole. Six foot (1.8 m) round loop(s) may be substituted for six foot (1.8 m) by six foot (1.8 m) square loop(s) and shall be paid for as 24 feet (7.2 m) of detector loop.

Method of Measurement.

This work will be measured for payment in feet (meters) in place. Type I detector loop will be measured along the sawed slot in the pavement containing the loop and lead-in, rather than the actual length of the wire. Preformed detector loops will be measured along the detector loop and lead-in embedded in the pavement, rather than the actual length of the wire.

Basis of Payment. This work will be paid for at the contract unit price per FOOT (METER) of DETECTOR LOOP, TYPE I or PREFORMED DETECTOR LOOP, as specified in the plans, which price shall be payment in full and for furnishing, installing and testing the Detector Loop and all related connections for proper operation.

**SPECIAL PROVISION
FOR
VIDEO DETECTION SYSTEM FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION**

This specification sets forth the minimum requirements for a system that detects vehicles on a roadway using only video images of vehicle traffic. In addition to the requirements described below, the video detection system shall meet or exceed the specifications of the Autoscope or the Iteris Vantage Plus systems.

1) General

a) System Hardware

The video detection system shall consist of one to six video cameras, a video detection processor (VDP) capable of processing from one to six video sources, and a pointing device. A minimum of a nine (9) inch in-cabinet video monitor is required for view and/or programming detector zones.

b) System Software

The system shall include software that detects vehicles in multiple lanes using only the video image. Detection zones shall be defined using only an on board video menu and a pointing device to place the zones on a video image. Up to 144 detection zones shall be available.

2) Functional Capabilities

a) The VDP shall process video from up to 6 video sources simultaneously. The sources can be video cameras or S-VHS video tape players. The video shall be input to the VDP in R5170 format and shall be digitized and analyzed in real time. A separate microprocessor for each video input shall be used.

b) The VDP shall detect the presence of vehicles in up to 24 detection zones per camera. A detection zone shall be approximately the width and length of one car.

c) Detection zones shall be programmed via an on board menu displayed on a video monitor and a pointing device connected to the VDP. The menu shall facilitate placement of the detection zones quickly and easily.

d) The VDP shall store up to three different detection zone patterns. The VDP can switch to any one of the three different detection patterns within 1 second of user request via menu selection with the pointing device.

e) The VDP shall detect vehicles in real time as they travel across each detection zone.

f) The VDP shall have an RS232 port for communications with an external computer. The VDP RS232 port shall be multi-drop capable.

g) The VDP shall accept new detection patterns from an external computer through the RS232 port when the external computer uses the correct communications protocol for downloading detection patterns.

h) The VDP shall send its detection patterns to an external computer through the RS-232 port when requested when the external computer uses the correct communications protocol for uploading detection patterns.

3) Vehicle Detection

a) Up to 144 detection zones shall be supported and each detection zone can be sized to suit the site and the desired vehicle detection region.

- b) Detection zones shall be capable of being Or'ed or AND'ed together to indicate vehicle presence on a single detector output channel.
- c) Placement of detection zones shall be done by using only a pointing device, and a graphical interface built into the YDP and displayed on a video monitor, to draw the detection zones on the video image from each video camera.
- d) Up to 3 detection zone patterns shall be saved for each camera within the VDP memory and this memory shall prevent loss during power outages.
- e) The selection of the detection zone pattern for current use shall be done through a menu. It shall be possible to activate a detection zone pattern from VDP memory and have that detection zone pattern available within 1 second of activation.
- f) When a vehicle is detected crossing a detection zone, the comers of the detection zone will flash on the video overlay display to confirm the detection of the vehicle.
- g) Detection shall be at least 98% accurate in good weather conditions, with slight degradation possible under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility. Detection accuracy is dependent upon camera placement, camera quality and detection zone location, and these accuracy levels do not include allowances for occlusion or poor video due to camera location or quality. See section 5.12 for recommended camera placement.
- h) The VDP shall provide 32 channels of detection through either a NEMA TS 1 port or a NEMA TS2 port.
- i) The VDP shall provide dynamic zone reconfiguration (DZR). DZR enables normal operation of existing detection zones when one zone is being added or modified during the setup process. The VDP shall output a constant call on any detector channel corresponding to a zone being modified.
- j) Detection zones shall be directional to reduce false detection from objects traveling in directions other than the desired direction of travel in the detection area.
- k) Detection zone setup shall not require site specific information such as latitude and longitude to be entered into the system.
- l) Detection zone setup shall not require temporal information such as date and time.
- m) The VDP shall process the video input from each camera using a separate microprocessor at 30 frames per second.

- n) The VDP shall output a constant call for each enabled detector output channel if a loss of video signal occurs. The VDP shall output a constant call during the background learning period.

Basis of Payment. Payment in full for furnishing, installing and setting up the video detection system, with necessary connections and programming for proper operation shall be included in the pay item for TEMPORARY TRAFFIC SIGNAL INSTALLATION.

**SPECIAL PROVISION
FOR
CONDUIT**

The installation of a conduit shall meet the requirements of Sections 810, 811 of the Standard Specifications, except as revised with this Special Provision.

Pavement, driveways, and curbs shall not be removed to install electrical conduits.

All conduit installed underground shall have a minimum depth of two feet six inches (2'-6" [760 mm]) except under railroad tracks where the conduit shall be a minimum of five feet (5' [1.52 m]) as measured to the outside diameter of the conduit on the top side.

All conduit splices shall be solid threaded couplings. Conduit terminating in junction and pull boxes shall be terminated with hubs, integral box hubs, or integral box bosses.

Directional boring or plowing will be allowed in place of trenched and backfilled or pushed conduit, but no additional compensation will be allowed.

All conduit attached to a structure shall have a minimum of one (1) expansion joint placed within the length of the attached conduit. At each end of the structure the Contractor shall install a weatherproof galvanized cast iron box with a minimum size of 8" (200 mm) x 8" (200 mm) x 6" (150 mm) deep. The installation of these two (2) boxes and any required expansion joints shall be considered incidental to the unit price for conduit attached to structure.

Basis of Payment. This work will be paid for at the contract unit price per FOOT (METER) for UNDERGROUND CONDUIT or CONDUIT ATTACHED TO STRUCTURE, of the type and size specified, which price shall be payment in full for furnishing and installing the conduit and fittings complete. Trench and Backfill will be paid for separately.

**SPECIAL PROVISION
FOR
COILABLE NON-METALLIC CONDUIT**

This work shall consist of furnishing and installing empty Coilable Non-Metallic Conduit (CNC) in trench of the type and size specified. The installation of CNC shall meet all applicable requirements of the Standard Specifications of Section 810 and 811. All installations of CNC shall be incidental to the contract and not paid for separately. polyethylene duct shall be used for all detector loop raceways to handholes. All duct shall be placed a minimum depth of 30 inches (750 mm) or as shown on the contract plans or standard details.

The conduit shall be a polyethylene duct which is intended for underground use and which can be manufactured and coiled or reeled in continuous transportable lengths and uncoiled for further processing and/or installation without adversely affecting its properties of performance. The conduit and its manufacture shall conform to the standards of NEMA Publication TC7, ASTM Standard Specifications D3485 and NEC Article 353.

On temporary traffic signal installations with detector loops, CNC shall be used for detector loop raceways from the saw-cut to 10 feet (3 m) up the wood pole, unless otherwise shown on the plans.

Material. The conduit shall be manufactured from high density polyethylene complying with ASTM D1248, Type III, Class C and the requirements listed in Table 2-1 of NEMA TC7. Submittal information shall demonstrate compliance with the details of these requirements.

Construction. Conduit dimensions shall conform to the standards listed in Table 2-2 of NEMA TC7. Submittal information shall demonstrate compliance with these requirements.

As specified in NEMA TC7, the conduit shall be clearly and durably marked at least every 10 feet (3 meters) with the material designation (HDPE for high density polyethylene), nominal size of the conduit and the name and/or trademark of the manufacturer.

Freeze-up Test. A ten foot length of the conduit bent into an upright "U" shape shall be filled with water and then placed in a low temperature cabinet and maintained at -20 degrees C for 24 hours. The conduit shall not crack or burst during the test.

Compression Test. The test shall be conducted on a six inch (150 mm) sample of the conduit. Samples are placed between six inch (150 mm) plates and compressed at the rate of one-half inch (12.5 mm) per minute until the distance between the plates is reduced by 50%, recording the load required to compress the conduit. The samples are then removed and allowed to stand for exactly 5 minutes. The load required to compress the sample shall be equal to or greater than that listed below and the conduit shall have returned to nor less than 85% of its original diameter at the end of the 5 minutes.

Nominal Size		Load
¾ inch.	20 mm	122 lbs.
1 inch.	25 mm	167 lbs.
1 ¼ inch.	30 mm	243 lbs.
1 ½ inch.	40 mm	297 lbs.
2 inch.	50 mm	387 lbs.

Tests. All of the tests referred to above and the applicable tests in the cited ASTM Standards shall be performed on the conduit at the manufacturer's plant and certified copies of the reports of the results of these tests shall be submitted to the Engineer prior to the installation of the CNC.

Basis of Payment.

All installations of CNC for loop detection shall be included in the contract and not paid for separately.

**SPECIAL PROVISION
FOR
ELECTRIC CABLE**

The installation of an electric cable shall meet the requirements of Section 873, 1088.01 and 1076.04 of the Standard Specifications and District One Standard Traffic Signal Design Details with the addition as the following:

The jacket for electric cable in this contract shall be of the polyvinyl chloride type meeting the requirements of IMSA 19-1. (Traffic signal cable shall be solid copper No. 14 unless otherwise specified in the plans or these Special Provisions). No other type of jacket will be allowed, except as follows:

The service cable may have a XLP jacket. Service cable may be single or multiple conductor cable.

Communications and lead-in cable shall have a gray or chrome jacket.

Electric cable sized No. 12 AWG and smaller shall be solid.

The length of cable slack shall be in accordance with District One Standard Traffic Signal Design Details.

The cable splice connection of the detector loop and the lead-in cable to the controller shall conform to Section 873 of the Standard Specifications or to the requirements set forth in the "District 1 Standard Traffic Signal Design Details".

Heat shrink splices shall be used according to "District 1 Standard Traffic Signal Design Details".

Basis of Payment. This work will be paid for at the contract unit price per FOOT (METER) for ELECTRIC CABLE of the type, size and number of conductors as specified., which price shall be payment in full for furnishing the material and making all electrical connections and installing the cable complete, measured as specified.

**SPECIAL PROVISION
FOR
SYSTEM GROUND AND GROUNDING CABLE**

This specification revises requirements of section 806 of the Standard Specifications to read:

General:

All traffic signal systems, equipment and appurtenances shall be properly grounded in strict conformance with the National Electrical Code. See IDOT District 1 traffic signal detail plan sheets for additional information.

The grounding electrode system shall include a ground rod installed with each traffic signal controller concrete foundation and all mast arm and post concrete foundations. An additional ground rod will be required at locations where measured resistance exceeds 25 ohms. Ground rods are included in the applicable foundation or service installation pay item and will not be paid for separately. All steel ground rods shall be copper clad, a minimum of 10' (3.0 m), and $\frac{3}{4}$ " (20mm) in diameter.

Testing shall be according to Section 801.13(a) (4) and (5).

- a) The grounded conductor (neutral conductor) shall be white color coded. This conductor shall be bonded to the equipment grounding conductor only at the Electric Service Installation. All power cables shall include one neutral conductor of the same size.
- b) The equipment grounding conductor shall be green color coded. The following is in addition to Section 801.04 of the Standard Specifications.
 - 1) Equipment grounding conductors shall be XLP insulated 600V No.6 gauge copper, unless otherwise noted on the plans, and bonded to the grounded conductor (neutral conductor) only at the Electric Service Installation. The equipment grounding conductor is paid for separately and shall be continuous. The Earth shall not be used as the equipment grounding conductor.
 - 2) Equipment grounding conductors shall be bonded, using a listed grounded connector (Burndy type KC/K2C, as applicable or approved equal), to all traffic signal mast arm poles, traffic signal posts, pedestrian posts, pushbutton posts, pull boxes, handhole frames and covers, conduits and other metallic enclosures throughout the traffic signal wiring system, except where noted herein. Bonding shall be made with a splice and pigtail connected using a sized compression type copper sleeve, sealant tape and heat shrinkable cap. A listed electrical joint compound shall be applied to all conductor terminations, connector threads and contact points. Conduit grounding bushings shall be installed at all conduit terminations. Bonding to existing handhole frames and covers shall be paid for separately.
 - 3) All metallic and non-metallic raceways containing traffic signal circuit runs shall have a continuous equipment grounding conductor, except raceways containing only detector loop lead-in circuits, circuits under 50 volts and/or fiber optic cable will not be required to include an equipment grounding conductor.
 - 4) Individual conductor splices in handholes shall be soldered and sealed with heat shrink. When necessary to maintain effective equipment grounding, a full heat shrink shall be provided over individual conductor heat shrinks.

- c) The grounding electrode conductor shall be similar to the equipment grounding conductor in color coding (green) and size. The grounding electrode conductor is used to connect the ground rod to the equipment grounding conductor and is bonded to ground rods via exothermic welding, listed pressure connectors, listed clamps or other approved listed means.

GROUNDING CABLE

The cable shall meet the requirements of Section 817.02(b) of the "Standard Specifications". Unless otherwise noted on the plans, Traffic Signal Grounding Conductor shall be one conductor, #6 gauge copper, with a green color coded XLP jacket.

Basis of Payment. This work will be paid for at the contract unit price per FOOT (METER) for ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6, 1C, which price shall be payment in full for furnishing labor and material including grounding clamps, cable, splicing, exothermic welds, grounding connectors conduit grounding bushings, and hardware. All ground rods shall be incidental to the cost of associated items for Concrete Foundations and Service Installation.

GROUNDING EXISTING HANDHOLE FRAME AND COVER.**Description.**

This work shall consist of all materials and labor required to bond the equipment grounding conductor to the existing handhole frame and handhole cover. All installations shall meet the requirements of the details in the "District One Standard Traffic Signal Design Details," and applicable portions of the Standard Specifications and these specifications.

The equipment grounding conductor shall be bonded to the handhole frame and to the handhole cover. Two (2) ½-inch diameter x 1 ¼-inch long hex-head stainless steel bolts, spaced 1.75-inches apart center-to-center shall be fully welded to the frame and to the cover to accommodate a heavy duty Listed grounding compression terminal (Burndy type YGHA or approved equal). The grounding compression terminal shall be secured to the bolts with stainless steel split-lock washers and nylon-insert locknuts.

Welding preparation for the stainless steel bolt hex-head to the frame and to the cover shall include thoroughly cleaning the contact and weldment area of all rust, dirt and contaminants. The Contractor shall assure a solid strong weld. The welds shall be smooth and thoroughly cleaned of flux and spatter. The grounding installation shall not affect the proper seating of the cover when closed.

The grounding cable shall be paid for separately.

Method of Measurement.

Units measured for payment will be counted on a per handhole basis, regardless of the type of handhole and its location.

Basis of Payment.

This work shall be paid for at the contract unit price each for GROUNDING EXISTING HANDHOLE FRAME AND COVER which shall be payment in full for grounding the handhole complete.

**SPECIAL PROVISION
FOR
SERVICE INSTALLATION, POLE MOUNTED**

This specification revises requirements of section 805 of the Standard Specifications to read:

All installations shall meet the requirements of the details in the "District 1 Standard Traffic Signal Design Details" and applicable portions of the Specifications. The electrical service installation shall be the electric service disconnecting means and it shall be identified as suitable for use as service equipment.

Materials.

- 1) General. The completed control panel shall be constructed in accordance with UL Std. 508A, Industrial Control Panel, and carry the UL label. Wire terminations shall be UL listed.
- 2) The cabinet shall be UL 50, NEMA Type 4X, unfinished single door design, fabricated from minimum 0.080-inch (2.03 mm) thick Type 5052 H-32 aluminum. Seams shall be continuous welded and ground smooth. Stainless steel screws and clamps shall secure the cover and assure a watertight seal. The cover shall be removable by pulling the continuous stainless steel hinge pin. The cabinet shall have an oil-resistant gasket and a lock kit shall be provided with an internal O-ring in the locking mechanism assuring a watertight and dust-tight seal. The cabinet shall be sized to adequately house all required components with extra space for arrangement and termination of wiring. A minimum size of 14-inches (350 mm) high, 9-inches (225 mm) wide and 8-inches (200 mm) in depth is required. The cabinet shall be channel mounted to a wooden utility pole using assemblies recommended by the manufacturer.
- 3) Surge Protector. Overvoltage protection, with LED indicator, shall be provided for the 120 volt load circuit by the means MOV and thermal fusing technology. The response time shall be <5n seconds and operate within a range of -40C to +85C. The surge protector shall be UL 1449 Listed.
- 4) Circuit Breakers. Circuit breakers shall be standard UL listed molded case, thermal-magnetic bolt-on type circuit breakers with trip free indicating handles. 120 volt circuit breakers shall have an interrupting rating of not less than 65,000 rms symmetrical amperes. Unless otherwise indicated, the main disconnect circuit breaker for the traffic signal controller shall be rated 60 amperes, otherwise noted on the plans, 120 V and the auxiliary circuit breakers shall be rated 10 amperes, 120 V.
- 5) Fuses, Fuseholders and Power Indicating Light. Fuses shall be small-dimensional cylindrical fuses of the dual element time-delay type. The fuses shall be rated for 600 V AC and shall have a UL listed interrupting rating of not less than 10,000 rms symmetrical amperes at rated voltage. The power indicating light shall be LED type with a green colored lens and shall be energized when electric utility power is present.
- 6) Ground and Neutral Bus Bars. A single copper ground and neutral bus bar, mounted on the equipment panel shall be provided. Ground and neutral conductors shall be separated on the bus bar. Compression lugs, plus 2 spare lugs, shall be sized to accommodate the cables with the heads of the connector screws painted green for ground connections and white for neutral connections.

- 7) The Contractor shall notify the Commonwealth Edison Marketing Representative a minimum of 30 working days prior to the anticipated date of hook-up. This 30 day advance notification will begin only after the Commonwealth Edison Marketing Representative has received service charge payments from the Contractor. Prior to contacting the Commonwealth Edison marketing representative for service connection, the service installation, controller cabinet and cable must be installed for inspection by Commonwealth Edison.
- 8) Ground Rod. Ground rods shall be copper-clad steel, a minimum of 10' (3.0 meters) in length, and 3/4" (20 mm) in diameter. Ground rod resistance measurements to ground shall be 25 ohms or less. If necessary additional rods shall be installed to meet resistance requirements at no additional cost to the contract.

Installation:

- 1) General. The Contractor shall confirm the orientation of the traffic service installation and its door side with the engineer, prior to installation. All conduit entrances into the service installation shall be sealed with a pliable waterproof material.
- 2) Brackets designed for pole mounting shall be used. All mounting hardware shall be stainless steel. Mounting height shall be as noted on the plans or as directed by the Engineer.

The Contractor must request in writing for service and/or service modification within ten (10) days of contract award and must follow-up with the electric utility to assure all necessary documents and payment are received by the utility. The Contractor shall forward copies of all correspondence between the Contractor and utility company to the County Design Engineer. The loading form to be sent to the utility company shall be furnished by the County Design Engineer. The service agreement and sketch shall be submitted for signature to the County Design Engineer.

The Commonwealth Edison contact phone number is 866-639-3532

Basis of Payment. This work will be paid for at the contract unit price EACH for SERVICE INSTALLATION, POLE MOUNTED, which shall be payment in full for furnishing and installing the service installation complete. SERVICE INSTALLATION, POLE MOUNTED shall include the 3/4" (20 mm) grounding conduit, ground rod, and pole mount assembly. Any charges by the utility company to provide electrical services to the service installation will be paid for in accordance with Article 109.05 of the Standard Specifications.

**SPECIAL PROVISION
FOR
ELECTRIC SERVICE**

The Commonwealth Edison Company or Division of Commonwealth Edison Company shall provide and install all necessary cable, switchgear and transformers on the power pole to be used for the service to the control cabinet as called for on the plans; provide service drops, install rigid steel or fiber portion of the pole riser (rigid steel or fiber conduit and fittings to be furnished by the Contractor); connect service drops to cable brought to service pole by Contractor. Where transformer manholes are used, electrical service shall be as called for on the plans.

The Cook County Department of Transportation and Highways has contacted the power company and secured the location and cost of electrical facilities. It will be the responsibility of the Electrical Contractor to contact the power company, request and consummate the agreement for these facilities as described herein and at locations as shown on the plans.

Basis of Payment. This work will be paid for at the LUMP SUM price for ELECTRIC SERVICE which work shall include all labor, materials, equipment, tools and incidentals necessary to complete the work as specified herein and as shown on the plans. The Commonwealth Edison Company or Division thereof shall bill the Electrical Contractor direct, for all costs incurred as a result of work done under this Special Provision for which a Lump Sum price of \$10,000.00 has been included in the Schedule of Prices.

The above figure includes the standard five (5) percent handling charge for the first \$10,000.00 and one (1) percent (%) for any amount greater than \$10,000.00.

**SPECIAL PROVISION
FOR
HANDHOLE**

The installation of a handhole shall meet the requirements of Section 814 of the Standard Specifications, with the addition as the following:

All handholes shall be concrete poured in place against undisturbed earth. No pre-cast concrete handholes will be accepted.

The handholes shall have an inside dimension of 21-1/2" (549 mm) minimum. Frames and lid openings shall match this dimension.

The cover of the handhole shall be labeled "TRAFFIC SIGNALS" with legible raised letters.

All conduits will enter the handhole at a depth of 30" (760 mm) except for the conduits between the curb and handhole for detector loops when the handhole is less than five (5) feet (1.52 m) from the detector loop. All conduit ends should be sealed with a waterproof sealant to prevent the entrance of contaminants into the handhole.

For grounding purposes the handhole frame shall have provisions for a 7/16" (15.875 mm) diameter stainless bolt cast into the frame. The covers shall have a stainless steel threaded stint extended from the eye hook assembly for the purpose of attaching the grounding conductor to the handhole frame and cover.

The minimum wall thickness for heavy duty hand holes shall be 12 inches (300 mm).

Steel cable hooks shall be coated with hot-dipped galvanization in accordance with AASHTO Specification M111. Hooks shall be a minimum of 1/2 inch (12.7 mm) diameter with two 90 degree bends and extend into the handhole at least 6 inches (150 mm). Hooks shall be placed a minimum of 12 inches (300 mm) below the lid or lower if additional space is required.

The French drain shall be constructed of crushed stone or gravel, Gradation CA 5 or CA 7, and according to Section 601 of the Standard Specifications.

Basis of Payment. This work will be paid for at the contract unit price EACH for HANDHOLE, HEAVY-DUTY HANDHOLE, or DOUBLE HANDHOLE, which price shall be payment in full for all necessary excavating, backfilling, disposal of unsuitable materials, and furnishing all materials within the limits of the handhole.

**SPECIAL PROVISION
FOR
CONCRETE FOUNDATION**

The installation of a concrete foundation shall meet the requirements of Section 106.01, 878 and 1006.09 of the Standard Specifications, the Standard Drawing for Concrete Foundations and District One Standard Traffic Signal Design Details with the addition as the following:

All anchor bolts shall be according to Section 1006.09, except all anchor bolts shall be hot dipped galvanized a minimum of 12 in. (300 mm) from the threaded end.

All iron and steel products, which are to be incorporated into work shall be domestically manufactured or produced and fabricated. The contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements.

All Type "A" foundations shall be a minimum depth of 48 inches (1220 mm).

Concrete Foundations, Type "C" for Traffic Signal Cabinets with Uninterruptible Power Supply (UPS) cabinet installations shall be a minimum of 72 inches (1830 mm) long and 31 inches (790 mm) wide. All Type "C" foundations shall be a minimum depth of 48 inches (1220 mm). The concrete apron in front of the Type IV or V cabinet shall be 36 in. x 48 in. x 5 in. (915 mm X 1220 mm X 130 mm). The concrete apron in front of the UPS cabinet shall be 36 in. x 67 in. x 5 in. (915 mm X 1700 mm X 130 mm). Anchor bolts shall provide bolt spacing as required by the manufacturer.

Concrete Foundations, Type "D" for Traffic Signal Cabinets shall be a minimum of 48 inches (1220 mm) long and 31 inches (790 mm) wide. All Type "D" foundations shall be a minimum depth of 48 inches (1220 mm). The concrete apron shall be 36 in. x 48 in. x 5 in. (910 mm X 1220 mm X 130 mm). Anchor bolts shall provide bolt spacing as required by the manufacturer.

Concrete Foundations, Type "E" for Mast Arm and Combination Mast Arm Poles shall meet the current requirements listed in the Highway Standards.

Foundations used for Combination Mast Arm Poles shall provide an extra 2-1/2 inch (65 mm) raceway.

No foundation is to be poured until the Resident Engineer gives approval as to the depth of the foundation.

Basis of Payment: This work will be paid for at the contract unit price per FOOT (METER) of depth for:

- CONCRETE FOUNDATION, TYPE A
- CONCRETE FOUNDATION, TYPE C
- CONCRETE FOUNDATION, TYPE D
- CONCRETE FOUNDATION, TYPE E - 30" (750 mm) Dia.
- CONCRETE FOUNDATION, TYPE E - 36" (900 mm) Dia.
- CONCRETE FOUNDATION, TYPE E - 42" (900 mm) Dia.

which price shall be payment in full for all necessary excavating or drilling, back filling, disposal of unsuitable material, form work, ground rods and furnishing all materials within the limits of the foundation.

**SPECIAL PROVISION
FOR
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**

The removal of existing traffic signal equipment shall meet the requirements of Section 895.05 of the Standard Specifications, except as follows:

This work shall consist of removing the existing traffic signal equipment at an intersection as listed and as shown on the plans.

All equipment to be returned to an Agency shall be delivered by the Contractor to the Agency's Traffic Signal Maintenance Contractor's main facility. The Contractor shall contact the Agency's Electrical Maintenance Contractor to schedule an appointment to deliver the equipment. No equipment will be accepted without a prior appointment. All equipment shall be delivered within 30 days of removing it from the traffic signal installation. The Contractor shall provide 5 copies of a list of equipment that is to remain the property of the Agency, including model and serial numbers, where applicable. A list of equipment shall be signed by the Agency's Electrical Maintenance Contractor and fax to the County Engineer at (312) 603-9956. The Contractor shall also provide a copy of the contract plan or special provision showing the quantities and type of equipment. Controllers and peripheral equipment from the same location shall be boxed together (equipment from different locations may not be mixed) and all boxes and controller cabinets shall be clearly marked or labeled with the location from which they were removed. If equipment is not returned with these requirements, it will be rejected by the Agency's Electrical Maintenance Contractor. The Contractor shall be responsible for the condition of the traffic signal equipment from the time Contractor takes maintenance of the signal installation until the acceptance of a receipt drawn by the Agency's Electrical Maintenance Contractor indicating the items have been returned in good condition.

The traffic signal equipment which is to be removed and is to become the property of the Contractor shall be disposed of by them outside the right-of-way at their expense.

All equipment is to be disassembled so as to make for easy loading and storage into Agency stock as per the Engineers instructions.

Traffic signal equipment which is lost or not returned to the Department for any reason shall be replaced with new equipment meeting the requirements of these Specifications at no cost to the contract.

Basis of Payment. This work will be paid for at the contract unit price EACH for REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT per intersection which price shall be payment in full for removing the equipment, and storing and/or disposing of it as required. The salvage value of the equipment retained by the Contractor shall be reflected in this contract unit price.

**SPECIAL PROVISION
FOR
TEMPORARY TRAFFIC SIGNAL INSTALLATION**

This item shall consist of furnishing, installing, maintaining and removing a temporary traffic signal installation at an existing intersection as shown on the plans and as described herein including but not limited to temporary signal heads, emergency vehicle priority systems, interconnect, vehicle detectors, uninterruptible power supply, and signing. Temporary traffic signal controllers and cabinets interconnected to railroad traffic control devices shall be new. When temporary traffic signals will be operating within a county or local agency Traffic Management System, the equipment must be NTCIP compliant and compatible with the current operating requirements of the Traffic Management System. The energy charges for the operation of the traffic signal installation shall be paid for by others if the installation is replacing an existing signal. Otherwise charges shall be paid for under Section 109.05 of the Road Specifications.

Only an approved Equipment Vendor will be allowed to assemble the temporary traffic signal cabinet. Only controllers supplied by an approved Equipment Vendor will be approved for use on temporary traffic signals. Only an approved Closed Loop Equipment Vendor shall assemble and test a temporary railroad interconnected traffic signal cabinet. (Refer to Traffic Actuated Controller Specification). A representative of the approved control Equipment Vendor shall be present at the temporary traffic signal turn-on inspection.

All "railroad interconnected" temporary traffic signal controllers and cabinets shall be newly constructed. Only controllers and cabinets supplied by one of the IDOT District 1 approved closed loop Equipment Manufacturers will be allowed.

The installation of a temporary traffic signal installation shall meet the requirements of Section 890 and 801.11 of the Standard Specifications and the Standard Drawings, except as follows:

Equipment. The Contractor shall provide the following:

- All control equipment for the temporary traffic signals shall be furnished by the Contractor unless otherwise stated in the plans. On projects with multiple temporary traffic signal installations, all controllers shall be of the same manufacturer brand and model number with current software installed.
- Only controllers supplied by one of the Cook County Department of Transportation and Highways approved closed loop equipment manufacturers will be approved for use at temporary signal locations. Controllers used for temporary traffic signals shall be fully actuated NEMA microprocessor based with RS232 data entry ports compatible with the latest revision of monitoring software approved CCDOTH or District 1 installed in NEMA TS2 cabinets with 8 phase back panels, capable of supplying 255 seconds of cycle length and individual phase length settings up to 99 seconds. On projects with one lane open and two way traffic flow, such as bridge deck repairs, the temporary signal controller shall be capable of providing an adjustable all red clearance setting of up to 30 seconds in length.
- All temporary traffic signal controllers shall meet or exceed the requirements of section 857 with regards to internal time coordination and preemption. The controller settings shall be set in the field as directed by the Engineer.

- All railroad interconnected temporary controllers and cabinets shall be new and shall satisfy the requirements of Article 857.02 of the Standard Specifications as modified herein. Only controllers and cabinet supplied by one of the IDOT district 1 approved closed loop equipment manufactures will be allowed.
- All temporary traffic signal cabinets shall have a closed bottom made of aluminum alloy. The bottom shall be sealed along the entire perimeter of the cabinet base to ensure a water, dust and insect-proof seal. The bottom shall provide a minimum of two (2) 100 mm (4 inch) diameter holes to run the electric cables through. The 100 mm (4 inch) diameter holes shall have a bushing installed to protect the electric cables and shall be sealed after the electric cables are installed.
- Grounding shall be provided for the temporary traffic signal cabinet meeting or exceeding the applicable portions of the National Electrical Code, Section 807 of the Standard Specifications and shall meet the requirements of the District 1 and Cook County Traffic Signal Specifications for "Grounding of Traffic Signal Systems".
- All traffic signal sections and pedestrian signal sections shall be of the 12" (300 mm) type. Traffic signal section shall be LED with expandable view, unless otherwise approval by the Engineer. Pedestrian signal heads shall be Light Emitting Diode (LED) Pedestrian Countdown Signal Heads except when a temporary traffic signal is installed at an intersection interconnected with a railroad grade crossing. When a temporary traffic signal is installed at an intersection interconnected with a railroad grade crossing, Light Emitting Diode (LED) Pedestrian Signal Heads shall be furnished. The temporary traffic signal heads shall be placed as indicated on the temporary traffic signal plan or as directed by the Engineer. The Contractor shall furnish enough cable slack to relocate heads to any position on the span wire or at locations illustrated on the plans for construction staging. The temporary traffic signal shall remain in operation during all signal head relocations. Each temporary traffic signal head shall have its own cable from the controller cabinet to the signal head. Signal heads shall be mounted no less than 17-ft and no more than 25-ft above the crown of the roadway. Signal heads with backplates shall be measured from the bottom of the backplate for minimum clearance and from the top signal section for maximum clearance.

Interconnect.

1. Temporary traffic signal interconnect shall be provided using fiber optic cable or wireless interconnect technology as specified in the plans. The Contractor may request, in writing, to substitute the fiber optic temporary interconnect indicated in the contract documents with a wireless interconnect. The Contractor must provide assurances that the radio device will operate properly at all times and during all construction staging. If approved for use by the Engineer, the Contractor shall submit marked-up traffic signal plans indicating locations of radios and antennas and installation details. If wireless interconnect is used, and in the opinion of the engineer, it is not viable, or if it fails during testing or operations, the Contractor shall be responsible for installing all necessary poles, fiber optic cable, and other infrastructure for providing temporary fiber optic interconnect at no cost to the contract.
2. The existing system interconnect and phone lines are to be maintained as part of the Temporary Traffic Signal Installation specified for on the plan. The interconnect shall be installed into the temporary controller cabinet as per the notes or details on the plans. All labor and equipment required to install and maintain the existing interconnect as part of the Temporary Traffic Signal

Installation shall be included in the item Temporary Traffic Signal Installation. When shown in the plans, temporary traffic signal interconnect equipment shall be furnished and installed. The temporary traffic signal interconnect shall maintain interconnect communications throughout the entire signal system for the duration of the project.

3. Temporary wireless interconnect, complete. The radio interconnect system shall be compatible with Eagle or Econolite controller closed loop systems. This item shall include all materials, labor and testing to provide the completely operational closed loop system as shown on the plans. The radio interconnects system shall include the following components:
 - a. Rack or Shelf Mounted RS-232 Frequency Hopping Spread Spectrum (FHSS) Radio
 - b. Software for Radio Configuration (Configure Frequency and Hopping Patterns)
 - c. Antennas (Omni Directional or Yagi Directional)
 - d. Antenna Cables, LMR400, Low Loss. Max. 100-ft from controller cabinet to antenna
 - e. Brackets, Mounting Hardware, and Accessories Required for Installation
 - f. RS232 Data Cable for Connection from the radio to the local or master controller
 - g. All other components required for a fully functional radio interconnect system

All controller cabinet modifications and other modifications to existing equipment that are required for the installation of the radio interconnect system components shall be included in this item.

The radio interconnect system may operate at 900Mhz (902-928) or 2.4 Ghz depending on the results of a site survey. The telemetry shall have an acceptable rate of transmission errors, time outs, etc. comparable to that of a hardwire system.

The proposed master controller and telemetry module shall be configured for use with the radio interconnect at a minimum rate of 9600 baud.

The radio interconnect system shall include all other components required for a complete and fully functional telemetry system and shall be installed in accordance to the manufacturers recommendations.

The following radio equipment is currently approved for use in Region One/District One:
Encon Model 5100 and Intuicom Communicator II.

- All existing street name and intersection regulatory signs shall be removed from existing poles and relocated and securely fastened to the signal span wire. The signs shall be relocated to the new and/ or existing mast arm poles and posts at no extra cost. Any intersection regulatory signs that are required for the temporary traffic signal shall be provided as shown on the plans or as directed by the Engineer. Relocation, removing, bagging and installing the regulatory signs for the various construction stages shall be provided as shown on the plans or as directed by the Engineer.
- If lighted signs are existing they shall be taken down and stored by the Contractor and reflective street name signs shall be installed on the temporary signal. The existing lighted sign shall be installed at the updated intersection as part of this pay item.
- All emergency vehicle preemption equipment (light detectors, light detector amplifiers, confirmation beacons, etc.) as shown on the temporary traffic signal plans shall be provided by the Contractor. It

shall be the Contractor's responsibility to contact the municipality or fire district to verify the brand of emergency vehicle preemption equipment to be installed prior to the contract bidding. The equipment must be completely compatible with all components of the equipment currently in use by the Agency. All light operated systems shall operate at a uniform rate of 14.035 Hz \pm 0.002, or as otherwise required by the Engineer, and provide compatible operation with other light systems currently being operated in the County. All labor and material required to install and maintain the emergency vehicle pre-emption installation shall be included in the item Temporary Traffic Signal Installation.

- All temporary traffic signal installations shall have vehicle detection installed as shown on the plans, or as directed by the Engineer. Pedestrian push buttons shall be provided for all pedestrian signal heads/phases as shown on the plans or as directed by the Engineer. All approaches shall have vehicular detection provided by Vehicle Detection System as shown on the plans or as directed by the Engineer. Video vehicle detection system shall be approved by CCDOTH prior to Contractor furnishing and installing. The Contractor shall install, wire, and adjust the alignment of the video vehicle detection system in accordance to the manufacturer's recommendations and requirements. The Contractor shall be responsible for adjusting the alignment of the video vehicle detection system for all construction staging changes and for maintaining proper alignment throughout the project. A representative of the approved control equipment vendor and the video detection vendor shall be present and assist the contractor in setting up and maintaining the video vehicle detection system. An in-cabinet video monitor shall be provided with all video vehicle detection systems and shall be included in the item Temporary Traffic Signal Installation.
- Uninterruptible Power Supply. When called for in the plans, the UPS cabinet shall be mounted to the temporary traffic signal cabinet and meet the requirements of UNINTERRUPTIBLE POWER SUPPLY in Divisions 800 and 1000 of these specifications.

All labor and material required to comply with these requirements shall be considered incidental to the bid price of temporary traffic signal installation.

Maintenance Procedures. The Contractor shall perform the following maintenance procedures for each temporary installation designated to remain in operation during construction.

The Contractor Shall:

- Have on staff electricians with IMSA Level II certification to provide signal maintenance.
- Patrol and inspect each installation every two (2) weeks for proper alignment of signal heads, light detectors, lamp failures, and general operation of the traffic signal.
- Check all controllers every two (2) weeks, which will include visually inspecting all timing intervals, relays, detectors, and pre-emption equipment to insure that they are functioning properly. This item includes, as routine maintenance, all portions of emergency vehicle pre-emption equipment.
- Provide immediate corrective action to replace burned out lamps or damaged sockets. When lamps are replaced, the reflector and lens shall be cleaned. All replacement lamps shall meet the approval of the Engineer. The Contractor shall repair or replace all defective equipment from any cause whatsoever.

- Maintain in stock at all times a sufficient amount of materials and equipment to provide effective temporary and permanent repairs.
- Provide immediate corrective action when any part or parts of the system fail to function properly. Two far side heads facing each approach shall be considered the minimum acceptable signal operation pending permanent repairs. A near right signal must also be maintained. When repairs at a signalized intersection require that the controller be disconnected and power is available, the Contractor shall place the traffic signal installation on flashing operation. The signals shall flash RED for all directions unless a different indication has been specified by the Engineer.
- The Contractor is required to place stop signs (R1-1-36) at each approach to the intersection as a temporary means of regulating traffic. At approaches, where a Yellow Flashing indication is necessary, as directed by the Engineer, stop signs will not be required. The Contractor shall furnish and equip all their vehicles assigned to the maintenance of traffic signal installations with a sufficient number of Stop Signs as specified herein. The Contractor shall maintain sufficient number of spare Stop Signs in stock at all times to replace Stop Signs which may be damaged or stolen.
- Replace defective or damaged equipment. If the proper sequence with full detection cannot be obtained immediately, a controller which will provide the proper sequence and full detection shall be installed within twelve (12) hours of removal of the original controller.
- The Contractor shall be required to maintain the existing type of equipment and sequence of operations during the period of time that the original control equipment is being overhauled
- Provide the Engineer with the names, addresses, and telephone numbers of two (2) persons qualified and assigned to the maintenance of the traffic signal installation. These people must be made available 24 hours per day, each and every day of the year for emergency calls by the Engineer.
- Respond to all emergency calls from the Department or municipality within one hour after notification and provide immediate corrective action. When equipment has been damaged or becomes faulty beyond repair, the Contractor shall replace it with new and identical equipment. The cost of furnishing and installing the replaced equipment shall be borne by the Contractor at no additional charge to the State or County. The Contractor may institute action to recover damages from a responsible third party. If at any time the Contractor fails to perform all work as specified herein to keep the temporary traffic signal installation in proper operating condition or if the Engineer cannot contact the Contractor's designated personnel, the Engineer shall have the State's or the County's Electrical Maintenance Contractor perform the maintenance work required. The State's or County's Electrical Maintenance Contractor shall bill the Contractor for the total cost of the work. The contractor shall pay this bill within thirty (30) days of the date of receipt of the invoice or the cost of such work will be deducted from the amount due the Contractor.

When temporary traffic signals are to be installed at locations where existing signals are presently operating, the Contractor shall be fully responsible for the maintenance of the existing signal installation as soon as any physical work begins on the contract or any portion thereof until which time the temporary signals are functioning and the existing signals are removed. In addition, seven days prior to

assuming maintenance of the existing traffic signal installation(s) under this contract, the Contractor shall request that the Resident Engineer contact the Design Engineer at (312) 603-1730 for an inspection of the Installation(s). The Design Engineer shall establish a date and time of inspection and at this time shall check the installation to determine if any corrective work should be done by the State's or County's Electrical Maintenance Contractor or the Municipalities Contractor prior to the Contractor taking over maintenance of the installation. The Resident Engineer, Engineer, and the Contractor shall mutually agree on the date of maintenance transfer to the Contractor for this section.

Temporary Traffic Signals for bridge projects shall follow the State Standards, Standard Specifications, Cook County Specifications and any plans for Bridge Temporary Traffic Signals included in the plans. The installation shall meet the Standard Specifications and all other requirements in this "Temporary Traffic Signal Installation" specification. In addition all electric cable shall be aerially suspended, at a minimum height of 18 feet (5.5 m), on temporary wood poles (Class 5 or better) of 45 feet (13.7 m), minimum height. The signal heads shall be span wire mounted or bracket mounted to the wood pole as shown in the plans or as directed by the Engineer. The Controller cabinet shall be mounted to the wood pole or as directed by the Engineer. Video vehicle detection may be used in place of the detector loops as approved by the Engineer.

Temporary Portable Traffic Signal for Bridge Projects.

1. Unless otherwise directed by the Engineer, temporary portable traffic signals shall be restricted to use on roadways of less than 8000 ADT that have limited access to electric utility service, shall not be installed on projects where the estimated need exceeds ten (10) weeks, and shall not be in operation during the period of November through March. The Contractor shall replace the temporary portable traffic signals with temporary span wire traffic signals noted herein at no cost to the contract if the bridge project or Engineer requires temporary traffic signals to remain in operation into any part of period of November through March. If, in the opinion of the engineer, the reliability and safety of the temporary portable traffic signal is not similar to that of a temporary span wire traffic signal installation, the Contractor shall replace the temporary portable traffic signals with temporary span wire traffic signals noted herein at no cost to the contract.
2. The controller and LED signal displays shall meet the Standard Specifications and all other requirements in this TEMPORARY TRAFFIC SIGNAL INSTALLATION specification".
3. Work shall be according to Article 701.18(b) of the Standard Specifications except as noted herein.
4. General.
 - a. The temporary portable bridge traffic signals shall be trailer-mounted units. The trailer-mounted units shall be set up securely and level. Each unit shall be self-contained and consist of two signal heads. The left signal head shall be mounted on a mast arm capable of extending over the travel lane. Each unit shall contain a solar cell system to facilitate battery charging. There shall be a minimum of 12 days backup reserve battery supply and the units shall be capable of operating with a 120 V power supply from a generator or electrical service.
 - b. All signal heads located over the travel lane shall be mounted at a minimum height of 17 feet (5m) from the bottom of the signal back plate to the top of the road surface. All far right signal heads located outside the travel lane shall be mounted at a minimum height of 8 feet (2.5m) from the bottom of the signal back plate to the top of the adjacent travel lane surface.

- c. The long all red intervals for the traffic signal controller shall be adjustable up to 250 seconds in one-second increments.
- d. As an alternative to detector loops, temporary portable bridge traffic signals may be equipped with video detection or other approved methods of vehicle detection and traffic actuation.
- e. All portable traffic signal units shall be interconnected using hardwire communication cable. Radio communication equipment may be used only with the approval of the Engineer. If radio communication is used, a site analysis shall be completed to ensure that there is no interference present that would affect the traffic signal operation. The radio equipment shall meet all applicable FCC requirements.
- f. The temporary portable bridge traffic signal system shall meet the physical display and operational requirements of conventional traffic signals as specified in Part IV and other applicable portions of the currently adopted version of the Manual on Uniform Traffic Control Devices (MUTCD). The signal system shall be designed to continuously operate over an ambient temperature range between -30 °F (-34 °C) and 120 °F (48 °C). When not being utilized to inform and direct traffic, portable signals shall be treated as nonoperating equipment according to Article 701.11.
- g. Basis of Payment. This work will be paid for according to Article 701.20(c).

Basis of Payment: This work will be paid for at the contract unit price EACH for TEMPORARY TRAFFIC SIGNAL INSTALLATION, TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION or TEMPORARY PORTABLE BRIDGE TRAFFIC SIGNAL INSTALLATION, which price shall include all costs for the modifications required for traffic staging, changes in signal phasing as required in the Contract plans, video vehicle detection system, any maintenance or adjustment to the video vehicle detection system, all material required, the installation and complete removal of the temporary traffic signal. Sixty percent of the bid price will be paid following approval of each installation. The remaining 40 percent will be paid following removal of each installation.

**SPECIAL PROVISION
FOR
EMERGENCY VEHICLE PRIORITY SYSTEM**

The installation of an emergency vehicle priority system shall meet Sections 887 and 1072 of the Standard Specifications, except as revised with this Special Provision.

It shall be the Contractor's responsibility to contact the municipality or Fire District to verify the brand of emergency vehicle pre-emption equipment to be installed prior to the Contract bidding. The equipment must be completely compatible with all components of the equipment currently in use by the Agency. A letter from the Agency is to be included with equipment submittals indicating what brand of equipment is acceptable to the Agency.

All new installations shall be equipped with confirmation beacons as shown on the "District 1 Standard Traffic Signal Design Details". The confirmation beacon shall consist of a 6 watt Par 38 LED flood lamp with a 30 degree light spread, maximum 6 watt energy consumption at 120V and a 2000 hour warranty for each direction of pre-emption. The lamp shall have an adjustable mount with a weatherproof enclosure for cable splicing. All hardware shall be cast aluminum or stainless steel. Holes drilled into signal poles, mast arms, or posts shall require rubber grommets. In order to maintain uniformity between communities, the confirmation beacons shall indicate when the control equipment receives the pre-emption signal. The pre-emption movement shall be signaled by a flashing indication at the rate specified by Section 4D-11 of the "Manual On Uniform Traffic Control Devices" and other applicable sections of future editions. The stopped pre-empted movements shall be signaled by a continuous indication.

All light operated systems shall include security and transit preemption software and operate at a uniform rate of 14.035 Hz +0.002, or as otherwise required by the Engineer, and provide compatible operation with other light systems currently being operated in the County.

This item shall include any required modifications to an existing Traffic Signal Controller as a result of the addition of the Emergency Vehicle Priority System.

The pre-emption detector amplifier shall be paid for on a basis of one (1) each per intersection controller and shall provide operation for all movements required in the pre-emption phase sequence.

Basis of Payment. This work will be paid for at the Contract unit price EACH for LIGHT TRANSMITTER, LIGHT DETECTOR, or LIGHT DETECTOR AMPLIFIER which price shall be payment in full for furnishing and installing the light transmitter, light detector, or light detector amplifier complete, with necessary connections for proper operation. The furnishing and installing of a confirmation beacon shall be included in the cost of the LIGHT DETECTOR.

The lead-in cable will be paid for at the contract unit price per FOOT (METER) for ELECTRIC CABLE IN CONDUIT, NO. 20, 3/C, TWISTED, SHIELDED or ELECTRIC CABLE AERIAL SUSPENDED, NO. 20, 3/C, TWISTED, SHIELDED which price shall be payment in full for furnishing and installing the lead-in cable and making all electrical connections. The electric cable shall be shielded and have three (3) stranded conductors colored blue, orange, and yellow with a stranded tinned copper drain wire. The cable shall meet the requirements of the manufacturer of the Emergency Vehicle Priority System Equipment.

**SPECIAL PROVISION
FOR
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT**

This item shall consist of relocating the existing emergency vehicle priority system light detector from an existing traffic signal mast arm or post to the new traffic signal mast arm or post as indicated in the plans or as directed by the Engineer.

The work shall include disconnecting light detector and reconnecting it to the new cable.

The emergency vehicle system is not to be inoperative for more than forty-eight (48) hours and the Contractor must notify the municipality or Fire Protection District seventy-two (72) hours prior to the disconnection of the equipment.

Basis of Payment. This item will be paid for at the contract unit price EACH for RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT which price shall be payment in full for disconnecting the existing light detector, relocating and connecting the light detector to the new cable complete and operating to the satisfaction of the Engineer. The relocating and connecting the existing confirmation beacon shall be considered incidental to the pay item for RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT.

The confirmation beacon and light detector lead-in cables will be paid for at the contract unit price per FOOT for ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C, ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED, ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL NO. 14 3C, or ELECTRIC CABLE AERIAL SUSPENDED, NO. 20 3C, TWISTED, SHIELDED, which price shall be payment in full for furnishing and installing the lead-in cable and making all electrical connections. The length of measurement shall be the distance horizontally measured between changes in direction, including cable in mast arms and slack cables. All vertical cables will not be measured for payment. Slack cables will be paid for as lead-in cables in conduit.

**SPECIAL PROVISION
FOR
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT**

This item shall consist of relocating the existing emergency vehicle priority system phasing unit (light detector amplifier) from an existing traffic signal controller to the new traffic signal controller cabinet, as indicated in the plans or as directed by the Engineer.

The work shall include disconnecting the emergency vehicle priority system phasing unit(s) (light detector amplifier) and reconnecting it/them to a new wiring harness which is to be factory wired into the new traffic signal controller cabinet.

The emergency vehicle system is not to be inoperative for more than forty-eight (48) hours and the Contractor must notify the municipality or Fire Protection District seventy-two (72) hours prior to the disconnecting of the equipment.

Basis of Payment. This item will be paid for at the contract unit price EACH for RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT which price shall be payment in full for disconnecting the existing phasing unit (light detector amplifier), relocating and connecting the phasing unit (light detector amplifier) to the new wiring harness at its new location complete and operating to the satisfaction of the Engineer.

**SPECIAL PROVISION
FOR
UNINTERRUPTIBLE POWER SUPPLY (UPS)**

The furnishing and installation of this item shall meet the requirements of Section 862 and 1074.04 of the Supplemental Specifications and Recurring Special Provisions, except as follows:

The UPS shall have the power capacity to provide normal operation of a signalized intersection that utilizes all LED type signal head optics, for a minimum of six hours.

The UPS shall additionally include, but not be limited to, a battery cabinet. The UPS shall provide reliable emergency power to the traffic signals in the event of a power failure or interruption.

Installation

When a UPS is installed at an existing traffic signal cabinet, the UPS cabinet shall partially rest on the lip of the existing controller cabinet foundation and be secured to the existing controller cabinet by means of at least four (4) stainless steel bolts. The UPS cabinet shall be completely enclosed with the bottom and back constructed of the same material as the cabinet.

When a UPS is installed at a new signal cabinet and foundation, it shall be mounted as shown on the plans.

At locations where UPS is installed and Emergency Vehicle Priority System is in use, any existing incandescent confirmation beacons shall be replaced with LED lamps in accordance with the Cook County Emergency Vehicle Priority System specification at no additional cost to the contract.

Material:

The UPS shall be line interactive and provide voltage regulation and power conditioning when utilizing utility power. The UPS shall be sized appropriately for the intersection's normal traffic signal operating connected load, plus 20 percent (20%). The total connected traffic signal load shall not exceed the published ratings for the UPS. The UPS shall provide a minimum of six (6) hours of normal operation run-time for signalized intersections with LED type signal head optics at 77 °F (25 °C) (minimum 700 W/1000 VA active output capacity, with 90 percent minimum inverter efficiency).

The UPS shall have a minimum of four (4) sets of normally open (NO) and normally closed (NC) single-pole double-throw (SPDT) relay contact closures, available on a panel mounted terminal block or locking circular connectors, rated at a minimum 120 V/1 A, and labeled so as to identify each contact according to the plans.

The UPS shall be compatible with the County's approved traffic controller assemblies utilizing NEMA TS 1 or NEMA TS 2 controllers and cabinet components for full time operation.

When the intersection is in battery backup mode, the UPS shall bypass all internal cabinet lights, ventilation fans, service receptacles, any lighted street name signs, any automated enforcement equipment and any other devices directed by the Engineer.

Batteries, inverter/charger and power transfer relay shall be housed in a separate NEMA Type 3R cabinet. The cabinet shall be Aluminum alloy, 5052-H32, 0.125-inch thick and have a natural mill finish.

No more than three batteries shall be mounted on individual shelves for a cabinet housing six batteries and no more than four batteries per shelf for a cabinet housing eight batteries.

The battery cabinet housing shall have the following nominal outside dimensions: a width of 25 in. (785 mm), a depth of 16 in. (440 mm), and a height of 41 to 48 in. (1.1 to 1.3 m). Clearance between shelves shall be a minimum of 10 in. (250 mm).

The door shall be equipped with a two position doorstop, one a 90° and one at 120°.

The door shall open to the entire cabinet, have a neoprene gasket, an Aluminum continuous piano hinge with stainless steel pin, and a three point locking system. The cabinet shall be provided with a main door lock which shall operate with a traffic industry conventional No. 2 key. Provisions for padlocking the door shall be provided.

The battery cabinet shall have provisions for an external generator connection.

The UPS shall include a tip or kill switch installed in the battery cabinet, which shall completely disconnect power from the UPS when the switch is manually activated.

The UPS shall incorporate a flanged electric generator inlet for charging the batteries and operating the UPS. The generator connector shall be male type, twist-lock, rated as 15A, 125VAC with a NEMA L5-15P configuration and weatherproof lift cover plate (Hubbell model HBL4716C or approved equal). Access to the generator inlet shall be from a secured weatherproof lift cover plate or behind a locked battery cabinet police panel.

Battery System: All batteries supplied in the UPS shall be either gel cell or AGM type, deep cycle, completely sealed, prismatic lead calcium based, silver alloy, valve regulated lead acid (VRLA) requiring no maintenance. All batteries in a UPS installation shall be the same type; mixing of gel cell and AGM types within a UPS installation is not permitted.

Batteries shall be certified by the manufacturer to operate over a temperature range of -13 to 160 °F (-25 to + 71 °C) for gel cell batteries and -40 to 140 °F (-40 to + 60 °C) for AGM type batteries.

The UPS shall consist of an even number of batteries that are capable of maintaining normal operation of the signalized intersection for a minimum of six hours. Calculations shall be provided showing the number of batteries of the type supplied that are needed to satisfy this requirement. A minimum of four batteries shall be provided.

The warranty for an uninterruptible power supply (UPS) shall cover a minimum of two years from date the equipment is placed in operation; however, the batteries of the UPS shall be warranted for full replacement for a minimum of five years from the date the traffic signal and UPS are placed into service.

Basis of Payment

This work will be paid for at the contract unit price per EACH for Uninterruptible POWER SUPPLY, which price shall be payment in full for furnishing and installing the Uninterruptible Power Supply complete with necessary connections for proper operation. Replacement of Emergency Vehicle Priority System confirmation beacons shall be included in the cost of the UNINTERRUPTIBLE POWER SUPPLY item.

**SPECIAL PROVISION
FOR
TEMPORARY TRAFFIC SIGNAL TIMINGS**

Description. This work shall consist of developing and maintaining appropriate traffic signal timings for the specified intersection for the duration of the temporary signalized condition, as well as impact to existing traffic signal timings caused by detours or other temporary conditions.

All timings and adjustments necessary for this work shall be performed by an approved Consultant who has previous experience in optimizing Closed Loop Traffic signal Systems for the County. The Contractor shall contact the Traffic Signal Engineer at (312) 603-1730 for a listing of approved Consultants.

The following tasks are associated with TEMPORARY TRAFFIC SIGNAL TIMINGS.

- (a) Consultant shall attend temporary traffic signal inspection (turn-on) and/or detour meeting, if needed and conduct on-site implementation of the traffic signal timings. Make fine-tuning adjustments to the timings in the field to alleviate observed adverse operating conditions and to enhance operations.
- (b) Consultant shall provide monthly observation of traffic signal operations in the field.
- (c) Consultant shall provide on-site consultation and adjust timings as necessary for construction stage changes, temporary traffic signal phase changes, and any other conditions affecting timing and phasing, including lane closures, detours, and other construction activities.
- (d) Consultant shall make timing adjustments and prepare comment responses as directed by the Traffic Signal Engineer.
- (e) Return original timing plan once construction is complete.

Basis of Payment. The work shall be paid for at the contract unit price EACH for TEMPORARY TRAFFIC SIGNAL TIMINGS, which price shall be payment in full for performing all work described herein per intersection. When the temporary traffic signal installation is turned on and/or detour implemented, 50 percent of the bid price will be paid. The remaining 50 percent of the bid price will be paid following the removal of the temporary traffic signal installation and/or detour.

**SPECIAL PROVISION
FOR
ILLUMINATED STREET NAME SIGN**

Description.

This work shall consist of furnishing and installing a LED internally illuminated street name sign.

Installation

The sign can be mounted on most steel mast arm poles. Mounting on aluminum mast arm pole requires supporting structural calculations. Some older or special designed steel mast arm poles may require structural evaluation to assure that construction of the mast arm pole is adequate for the proposed additional loading. Structural calculations and other supporting documentation as determined by the Engineer shall be provided by the contractor for review by the Department.

The sign shall be located on a steel traffic signal mast arm no further than 8-feet from the center of the pole to the center of the sign at a height of between 16 to 18-feet above traveled pavement. Mounting hardware shall be Pelco model SE-5015, or approved equal, utilizing stainless steel components.

Signs shall be installed such that they are not energized when traffic signals are powered by an alternate energy source such as a generator or uninterruptible power supply (UPS). The signs shall be connected to the generator or UPS bypass circuitry.

Materials

The illuminate street name sign shall be as follows.

(a) Description.

The LEDs shall be white in color and utilize InGaN or UV thermally efficient technology. The LED Light Engines shall be designed to fit inside a standard fluorescent illuminated street sign housing in lieu of fluorescent lamps and ballasts or a slim line type housing. The two face LED internally-illuminated street name sign shall display the designated street name clearly and legibly in the daylight hours without being energized and at night when energized. Sign legend shall be approved by the County before signs are ordered. The sign assembly shall consist of a four-, six-, or eight-foot aluminum housing. White translucent 3M DG3 reflective sheeting sign faces with the street name applied in 3M/Scotchlite Series 1177 or current 3M equivalent transparent green shall be installed in hinged doors on the side of the sign for easy access to perform general cleaning and maintenance operations. Illumination shall occur with LED Light Engine as specified.

(b) Environmental Requirements.

The LED lamp shall be rated for use in the ambient operating temperature range of -40 to +50°C (-40 to +122°F) for storage in the ambient temperature range of -40 to +75°C (-40 to +167°F).

(c) General Construction.

1. The LED Light Engine shall be a single, self-contained device, for installation in an existing street sign housing. The power supply must be designed to fit and mounted on the inside wall at one end of the street sign housing. The LED Light Engine shall be mounted within the inner top portion of the housing and no components of the light source shall sit between the sign faces.

2. The assembly and manufacturing processes of the LED Light Engine shall be designed to ensure that all LED and electronic components are adequately supported to withstand mechanical shocks and vibrations in compliance with the specifications of the ANSI, C136.31-2001 standards.

(d) Mechanical Construction.

1. The sign shall be constructed using a weatherproof, aluminum housing consisting of an extruded aluminum top with a minimum thickness of .140" x 10 3/4" deep (including the drip edge). The extruded aluminum bottom is .094" thick x 5 7/8" deep. The ends of the housing shall be cast aluminum with a minimum thickness of .250". A six-foot sign shall be 72 5/8" long and 22 5/16" tall and not weigh more than 77 pounds. An eight-foot sign shall be 96 5/8" long and 22 5/16" tall and not weigh more than 92 pounds. All corners are continuous TIG (Tungsten Inert Gas) welded to provide a weatherproof seal around the entire housing.

2. The door shall be constructed of extruded aluminum. Two corners are continuous TIG welded with the other two screwed together to make one side of the door removable for installation of the sign face. The door is fastened to the housing on the bottom by a full length, .040" x 1 1/8" open stainless steel hinge. The door shall be held secure onto a 1" wide by 5/32" thick neoprene gasket by three (six total for two-way sign) quarter-turn fasteners to form a watertight seal between the door and the housing.

3. The sign face shall be constructed of .125" white translucent polycarbonate. The letters shall be 8" upper case and 6" lower case. The sign face legend background shall consist of 3M/Scotchlite Series 4090T or current equivalent 3M translucent DG3 white VIP (Visual Impact Performance) diamond grade sheeting (ASTM Type 9) and 3M/Scotchlite Series 1177 or current 3M equivalent transparent green acrylic EC (electronic cut-able) film applied to the front of the sign face. The legend shall be framed by a white polycarbonate border. A logo symbol and/or name of the community may be included with approval of the Engineer.

4. All surfaces of the sign shall be etched and primed in accordance to industry standards before receiving appropriate color coats of industrial enamel.

5. All fasteners and hardware shall be corrosion resistant stainless steel. No tools are required for routine maintenance.

6. All wiring shall be secured by insulated wire compression nuts.

7. A wire entrance junction box shall be supplied with the sign assembly. The box may be supplied mounted to the exterior or interior of the sign and provide a weather tight seal.

8. A photoelectric switch shall be mounted in the control cabinet to control lighting functions for day and night display. Each sign shall be individually fused.

9. Brackets and Mounting: LED internally-illuminated street name signs will be factory drilled to accommodate mast arm two-point support assembly mounting brackets.

10. Refer to the illuminated street name sign mounting detail standard for wiring methods and material.

(e) Electrical.

1. Photocell shall be rated 105-305V, turn on at 1.5 fcs. with a 3-5 second delay. A manufacturer's warranty of six (6) years shall be provided. Power consumption shall be no greater than 1 watt at 120V.
2. The LED Light Engine shall operate from a 60 +/- 3 cycle AC line power over a voltage range of 80 to 135 Vac rms. Fluctuations in line voltage over the range of 80 to 135 Vac shall not affect luminous intensity by more than +/- 10%.
3. Total harmonic distortion induced into the AC power line by the LED Light Engine, operated at a nominal operating voltage, and at a temperature of +25°C (+77°F), shall not exceed 20%.
4. The LED Light Engine shall be cycled ON and OFF with a photocell as shown on the detail sheet and shall not exceed the following maximum power values:

4-Foot Sign	60 W
6-Foot Sign	90 W
8-Foot Sign	120 W

The signs shall not be energized when traffic signals are powered by an alternate energy source such as a generator or uninterruptible Power Supply (UPS). The signs shall be connected to the generator or UPS bypass circuitry.

(f) Photometric Requirements.

1. The entire surface of the sign panel shall be evenly illuminated. The average maintained luminous intensity measured across the letters, operating under the conditions defined in Environmental Requirements and Wattage Sections shall be of a minimum value of 100 cd/m².
2. The manufacturer shall make available independent laboratory test results to verify compliance to Voltage Range and Luminous Intensity Distribution Sections.
3. Twelve (12) 1.25 watt LED units shall be mounted on 1-inch x 22-inch metal core printed circuit boards (MCPCB). The viewing angle shall be 120 degrees. LED shall have a color temperature of 5200k nominal, CRI of 80 with a life expectancy of 75,000 hrs.

(g) Quality Assurance.

The LED Light Engine shall be manufactured in accordance with a vendor quality assurance (QA) program. The production QA shall include statistically controlled routine tests to ensure minimum performance levels of the LED Light Engine build to meet this specification. QA process and test result documentations shall be kept on file for a minimum period of seven (7) years. The LED Light Engine that does not satisfy the production QA testing performance requirements shall not be labeled, advertised, or sold as conforming to these specifications. Each LED Light Engine shall be identified by a manufacturer's serial number for warranty purposes. LED Light Engines shall be replaced or repaired if they fail to function as intended due to workmanship or material defects within the first sixty (60) months from the date of acceptance. LED Light Engines that exhibit luminous intensities less than the minimum value specified in Photometric Section within the first thirty-six (36) months from the date of acceptance shall be replaced or repaired.

Basis of Payment

This work will be paid for at the contract unit price EACH for ILLUMINATED STREET NAME SIGN, of the length specified which shall be payment in full for furnishing and installing the LED internally illuminated street sign, complete with circuitry and mounting hardware including photo cell, circuit breaker, fusing, relay, connections and cabling as shown on the plans for proper operation and installation.

The Illuminated street name sign cable will be paid for at the contract unit price per Foot for Electric Cable In Conduit, Street name Sign, No. 14 3C, Type SOOW, which price shall be payment in full for furnishing and installing the cable and making all electrical connections. The length of measurement shall be the distance horizontally measured between changes in direction, including cable in mast arms and slack cables. All vertical cables will not be measured for payment. Slack cables will be paid for as lead-in cables in conduit.

**SPECIAL PROVISION
FOR
VIDEO DETECTION SYSTEM, SINGLE CAMERA/PROCESSOR VIDEO DETECTION**

This work shall consist of furnishing and installing an Autoscope Solo Terra or approved equal Video Detection System including all necessary hardware, cable and accessories as specified on the plans. An extension pole for mounting video cameras, when needed or directed by the engineer, will be included in this item.

The system shall consist of one Image Sensor and Machine Vision Processor (MVP) or Video Detection Processor (VDP) integrated into one compact unit. Communication or Extension modules shall be provided which act as interface between the image sensor/MVP or VDP and the traffic controller. The communication or Extension interface unit shall be shelf mount or it shall fit a NEMA TS-1 and TS-2 detector rack depending on the application.

The system shall be able to detect either approaching or receding vehicles in multiple traffic lanes. With a MVP or VDP capable of handling one image sensors, there shall be a minimum of 24 detection zones that can be user-defined through interactive graphics by placing lines and/or boxes in an image or a VGA monitor. The user shall be able to redefine previously defined detection zones. The MVP or VDP shall calculate traffic parameters in real-time and provide local non-volatile data storage for later downloading and analysis.

Video Detection - General

This specification sets forth the minimum requirements for a system that monitors vehicles on a roadway via processing of video images. The detection of vehicles passing through the field-of-view of an image sensor shall be made available to a large variety of end user applications as simple contact closure outputs that reflect the current realtime detector or alarm states (on/off) or as summary traffic statistics that are reported locally or remotely. The contact closure outputs shall be provided to a traffic signal controller and comply with the National Electrical Manufacturers Association (NEMA) type C or D detector.

System Hardware

The machine vision system hardware shall consist of three components: 1) a color, min 10x zoom, MVP or VDP sensor 2) a modular cabinet interface unit 3) a communication interface panel. Additionally, an optional personal computer (PC) shall host the server and client applications that are used to program and monitor the system components. The realtime performance shall be observed by viewing the video output from the sensor with overlaid flashing detectors to indicate the current detection state (on/off). The MVP or VDP sensor shall optionally store cumulative traffic statistics internally in non-volatile memory for later retrieval and analysis.

The MVP or VDP shall communicate to the modular cabinet interface unit via the communication or Extension interface panel and the software applications using the industry standard TCP/IP network protocol.

The modular cabinet interface unit shall communicate directly with up to eight (8) MVP or VDP sensors and shall comply with the form factor and electrical characteristics to plug directly into a NEMA type C or D detector rack.

System Software

The MVP or VDP sensor embedded software shall incorporate multiple applications that perform a variety of diagnostic, installation, fault tolerant operations, data communications, digital video streaming, and vehicle detection processing. The detection shall be reliable, consistent, and perform under all weather, lighting, and traffic congestion levels. An embedded web server shall permit standard internet browsers to connect and perform basic configuration, maintenance, and video streaming services.

FUNCTIONAL CAPABILITIES

MVP or VDP Sensor

The MVP or VDP sensor shall be an integrated imaging color CCD array with zoom lens optics, high-speed, dual-core image processing hardware bundled into a sealed enclosure. The CCD array shall be directly controlled by the dual-core processor, thus providing high-quality video for detection that has virtually no noise to degrade detection performance. It shall be possible to zoom the lens as required for setup and operation. The camera shall be in a water tight enclosure. The camera enclosure shall be equipped with a sunshield which includes a water diversion device, which prevents water from flowing in the cameras field of view. The camera enclosure shall contain a heater to assure proper operation of the camera at low temperatures. The heater shall prevent condensation on the optical face plate of the enclosure. The enclosure shall be equipped with weathered tight connections for all cables and connectors. A minimum of a nine (9) inch in-cabinet video monitor is required for view and/or programming detector zones.

Power

The MVP or VDP sensor shall operate on 110/220 VAC, 50/60Hz at a maximum of 45 watts. The MVP or VDP sensor shall operate in a temperature range of -29°F to 165°F (-34°C to 74°C).

Detection Zone Programming

Placement of detection zones shall be by means of a PC with a Windows operating system, a keyboard, and a mouse or monitor and mouse. The PC monitor shall be able to show the detection zones superimposed on images of traffic scenes.

The detection zones shall be created by using a mouse to draw detection zones on the PC monitor and/or cabinet monitor. Using the mouse and keyboard it shall be possible to place, size, and orient detection zones to provide optimal road coverage for vehicle detection. It shall be possible to download detector configurations from the PC to the MVP or VDP sensor and cabinet interface module, to retrieve the detector configuration that is currently running in the MVP or VDP sensor, and to back up detector configurations by saving them to the PC fixed disks or other removable storage media.

The supervisor computer's mouse and keyboard or monitor and mouse shall be used to edit previously defined detector configurations to permit adjustment of the detection zone size and placement, to add detectors for additional traffic applications, or to reprogram the MVP or VDP sensor for different traffic applications or changes in installation site geometry or traffic rerouting.

Optimal Detection

The video detection system shall optimally detect vehicle passage and presence when the MVP or VDP sensor is mounted 30 feet (10 m) or higher above the roadway, when the image sensor is adjacent to the

desired coverage area, and when the distance to the farthest detection zone locations are not greater than ten (10) times the mounting height of the MVP or VDP. The recommended deployment geometry for optimal detection also requires that there be an unobstructed view of each traveled lane where detection is required. Although optimal detection may be obtained when the MVP or VDP is mounted directly above the traveled lanes, the MVP or VDP shall not be required to be directly over the roadway. The MVP or VDP shall be able to view either approaching or receding traffic or both in the same field of view. The preferred MVP or VDP sensor orientation shall be to view approaching traffic since there are more high contrast features on vehicles as viewed from the front rather than the rear.

Modular Cabinet Interface Unit

The modular cabinet interface unit shall provide the hardware and software means for up to eight (8) MVP or VDP sensors to communicate real-time detection states and alarms to a local traffic signal controller. It shall comply with the electrical and protocol specifications of the detector rack standards.

The modular cabinet interface unit shall be a simple interface card that plugs directly into a NEMA type C or D detector rack. The modular cabinet interface unit shall occupy only 2 slots of the detector rack. The modular cabinet interface unit shall accept up to eight (8) inputs and shall provide up to twenty-four (24) detector outputs.

System Installation & Training

The supplier of the video detection system may supervise the installation and testing of the video detection system and computer equipment as required by the contracting agency.

Training is available to personnel of the contracting agency in the operation, set up, and maintenance of the video detection system. The MVP or VDP sensor and its support hardware / software is a sophisticated leading-edge technology system. Proper instruction from certified instructors is recommended to ensure that the end user has complete competency in system operation. The User's Guide is not an adequate substitute for practical classroom training and formal certification by an approved agency.

Warranty, Service, & Support

For a minimum of two (2) years, the supplier shall warrant the video detection system. An option for additional year(s) warranty for up to 5 years shall be available. Ongoing software support by the supplier shall include software updates of the MVP or VDP sensor, modular cabinet interface unit, and supervisor computer applications. These updates shall be provided free of charge during the warranty period. The supplier shall maintain a program for technical support and software updates following expiration of the warranty period. This program shall be available to the contracting agency in the form of a separate agreement for continuing support.

Basis of Payment: This work shall be paid at the contract unit price EACH for VIDEO DETECTION SYSTEM, SINGLE CAMERA/PROCESSOR VIDEO DETECTION, as described above, which price will be payment in full for furnishing, installing and setting up the video detection system, with necessary connections and programming for proper operation.

The cable shall be in accordance with the recommendation of the manufacturer of the Video Detection System. The video detection cable will be paid for at the contract unit price per FOOT for ELECTRIC CABLE, VIDEO DETECTION SYSTEM which price will be payment in full for furnishing and installing the video detection cable, as specified herein, with all necessary connections for proper operation.

DUCTILE IRON WATER MAIN WITH POLYETHYLENE ENCASEMENT

This work shall be in accordance with Section 561 of the Standard Specifications and the Standard Specifications for Water and Sewer Main Construction in Illinois except as modified herein. This work shall consist of the vertical adjustment and/or relocation of various size ductile iron water main at locations indicated on the plans or as directed by the Engineer due to separation requirements between the proposed storm sewer and existing water main. The water main shall be Ductile Iron, ANSI thickness Class 52, Push-On Joint, and must meet all applicable requirements of ANSI A21.51 (AWWA C151)[pipe]; ANSI A21.10 (AWWA C110) or AWWA C153; [fittings], ANSI A21.11 (AWWA C111)[joints], and ANSI A21.4 (AWWA C104)[pipe lining] specifications. Stainless steel bolts shall be used to prevent corrosion. All water mains shall be wrapped in 8-mil thick polyethylene encasement (ANSI/AWWA C105/A21.5) Method B, with pipe and joints wrapped separately.

All fittings shall be made from gray-iron or ductile iron and furnished with mechanical joint ends. All fittings shall have a pressure rating of 250 psi and shall be wrapped with an 8-mil thick polyethylene material per AWWA Standard C105. At locations indicated on the plans or as directed by the Engineer, the water main shall be constructed around existing utility structures or other obstacles by use of tees, bends or other appropriate fittings. Gasket material identical to that described above shall be utilized at all joints and fittings.

The City of Harvey Public Works Department shall be contacted at 708-210-5340 a minimum of 72 hours before the start of construction to mark the location of the water main. The contractor and the engineer shall determine together in the field where water main will require adjustments. The contractor shall be responsible for installing the water main at the appropriate depth based on proposed conditions. All water mains shall be relocated and tested prior to the construction of storm sewer. Testing will not be paid for separately and shall be included in the cost of CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT.

Basis of Payment: Measurement shall be made along the horizontal centerline of water main installed with no adjustments made for vertical changes. This pay item shall be used as field conditions warrant at the time of construction. No adjustment in unit price will be allowed for an increase or decrease in the quantities from the estimated quantities shown on the plans. The cost for furnishing all labor, materials and equipment necessary for excavation, construction of the new water main, backfilling, pressure testing, flushing and chlorinating, all materials and labor required for wrapping the water main will be paid for at the contract unit price per FOOT for CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT, [SPECIFIED SIZE].

CITY OF HARVEY MINIMUM CHLORINATION STANDARDS

The City of Harvey requires all contractors disinfecting water system components using gas chlorine to abide with the following requirements:

Procedure

1. Minimum 24 hour notice before chlorinating. Call 708-210-5340 to schedule chlorination.
2. Only authorized City of Harvey employees shall operate all water system valves and turn on/off sampling whips while samples are being collected.

Equipment

1. All chlorination and safety equipment must meet or exceed the standards and recommendations set by The Chlorine Institute, Inc.

Requirements for Chlorinating Contractors

1. Chlorinator must be licensed plumber or certified Illinois water operator with a minimum of 5 years experience, and a minimum of 5 years experience working with chlorine disinfection of water supply systems.
2. Two people must be present to chlorinate: One to monitor cylinder and the other to monitor in the field.
3. Chlorination contractor must be bonded and insured, and have proof of both on file with the City.
4. Chlorination contractor must have updated emergency phone numbers on file with the City.

5. Chlorination contractor must comply with state and federal regulations regarding transportation and handling of chlorine cylinders.
- a. Shipping and emergency papers for every job location
 - b. Proof of insurance for hauling and handling chlorine gas
 - c. Commercial Drivers License with Hazmat endorsement and medical card
 - d. Copy of Emergency Response Guidebook in vehicle
 - e. Hazmat certificate of registration
 - f. Hazardous material placards displayed on vehicle
 - g. Cylinder strapped upright in truck

Under no circumstances will chlorine contractors be allowed to apply heat to the chlorine cylinder (i.e. hot baths, propane torches, etc.). While the cylinder is being used it must be in a vertical position, as well as being affixed to a solid object.

Prior to work, the Chlorinator must provide a detailed written chlorination and flushing plan to the City for review and approval.

At any time, the City, or its authorized representative, may ask for proof of any or all of the above information. If you have any questions please feel free to contact the City of Harvey Public Works Department.

PRESSURE TEST, STERILIZATION, AND FLUSHING OF WATER MAIN

All piping used in the transmission of water to the distribution system shall be properly pressure tested and sterilized. This includes the fill line, suction line and overflow. The dosage shall be such as to produce a fifty (50) part per million concentration. The heavily chlorinated water shall be retained in the water pumping system for a period of at least twenty-four (24) hours, after which time it shall be flushed out.

Sections of pipe to be disinfected shall first be flushed to remove any solids or contaminated material that may have become lodged in the pipe. If no hydrant is installed at the end of the main, then a tap should be provided large enough to develop a velocity of at least two and five-tenths (2.5) feet per second in the main. A two and one-half (2-1/2) inch hydrant opening will, under normal pressures, provide this velocity in pipe sizes up to and including twelve (12) inches. Flushing shall meet AWWA C651. All taps two (2) inch in size and smaller required for chlorination or flushing purposes, or for temporary or permanent release of air, shall be provided by the Contractor as a part of the construction of water mains.

When the complete system has been thoroughly flushed, samples shall be collected at the discharge main to be delivered to the lab for bacteriological examination. Should the results prove satisfactory, the system shall be placed in service; otherwise, it shall be cause for re-sterilization. This will not be paid for separately but will be considered incidental to the contract. Water main shall be pressure tested at 150 psi for a minimum of two (2) hours with no pressure loss.

MECHANICAL JOINT RESTRAINTS

All mechanical joint restraints shall be incorporated in the design of a follower gland. The gland shall be manufactured of ductile iron conforming to ASTM A 536. Dimensions of the gland shall be such that it can be used with the standardized mechanical joint bell and tee-head bolts conforming to AWWA C111 and C153.

The restraint mechanism shall consist of numerous individually activated gripping surfaces to maximize restraint capability. The gripping surfaces shall be wedges designed to spread the bearing surfaces on the pipe. Twist-off nuts, sized same as tee-head bolts, shall be used to insure proper actuating of restraining devices. When the nut is sheared off, a standard hex nut shall remain. The mechanical joint restraint device for ductile iron pipe shall have a working pressure of at least 250 psi with a minimum safety factor of 2. Gasket material identical to that described above shall be utilized at all joints and fittings.

The mechanical joint restraint devices shall be EBAA Iron, Inc. MegaLug 1100 series, Uni-Flange Series 1400.

Joint restraint for ductile iron pipe within casing shall be restrained ductile iron pipe, and shall be rated for 350 psi in accordance with ANSI/AWWA C111/A21.11 *Rubber-Gasket Joints for Ductile Iron Pipe and Fittings*.

All design associated with mechanical joint restraints shall be completed by the contractor and his supplier. Design calculations shall be submitted to the Engineer for review and approval prior to the ordering of materials. The cost for designing, furnishing, installing, adjusting, and testing of mechanical joint restraints will not be compensated for separately but shall be considered included in the cost of CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT.

FIRE HYDRANTS TO BE MOVED

This item of work will take place along Center Street where indicated on the plans according to Section 564 except as modified herein. Any work to be performed by the contractor involving the water supply system of the City of Harvey shall be coordinated with the Harvey Public Works Department. The existing hydrant shall be removed and relocated to the area as directed by the Engineer. The hydrant lead at the old location shall be plugged appropriately. The condition of the hydrant, auxiliary valve, valve box and tee shall be evaluated to determine if it can be reused. If the condition is acceptable, the fire hydrant shall be relocated and reinstalled as directed by the Engineer.

If the existing fire hydrant is in unsatisfactory condition, a new fire hydrant, auxiliary valve, valve box and tee shall be installed at the new location. All new fire hydrants shall be East Jordan Iron Works Model 5BR250 as approved by the City of Harvey Public Works Department. All unused fire hydrants shall be delivered to the City of Harvey Public Works Department.

Basis of Payment: The cost for removing the hydrant and component parts, plugging the old hydrant lead, reinstalling the existing hydrant at the new location and delivering the hydrant (if necessary) shall be paid for at the contract unit price per EACH for FIRE HYDRANTS TO BE MOVED. The cost for any new fire hydrants shall be paid for at the contract unit price per EACH for FIRE HYDRANTS.

VALVES

All 12 inches and smaller valves shall be East Jordan Iron Works resilient wedge type abiding to AWWA C509 and AWWA C550.

All proposed valves larger than 12 inches shall be Pratt butterfly type with extension stem and ground level position indicator, iron body, rubber seat butterfly valve, Class 150B, counter clockwise to open, conforming to AWWA C504 and approved by the City of Harvey Public Works Department. The cost for each valve shall be included in the appropriate valve vault or valve box unit price.

VALVE VAULTS

Valve vaults shall be installed at the locations indicated in the plans or as directed by the Engineer. Valves shall be centered directly under the vault lid opening unless otherwise approved by the Engineer. Valve vaults shall conform to ASTM C478 and shall have a diameter as specified on the plans.

No more than two (2) adjusting rings with six (6) inch maximum height adjustment shall be allowed. Rubber adjusting rings instead of concrete adjusting rings are required for all valve vaults and precast rings are not allowed. All joints between vaults sections shall be sealed with mastic around the outside wall of the vault.

All vaults shall be provided with a heavy duty Type 1 frame and closed lid. The manhole frame and cover shall be embossed "WATER" and "CITY OF HARVEY".

Basis of Payment: Measurement for payment shall be per EACH for VALVE VAULTS, TYPE A, of the diameter specified, and shall include the appropriate [SPECIFIED SIZE] TAPPING SLEEVE AND VALVE IN [SPECIFIED SIZE] DIAMETER VALVE VAULT, TYPE 1 FRAME, CLOSED LID as called out in the plans.

WATER MAIN LINESTOPS

Under this item Contractor shall furnish all materials, labor and equipment to properly install and set linestops into the existing water mains, in parkway or pavement locations, where determined by the Engineer as being necessary to facilitate the capping of existing water main. If a successful shut down can be established, this item will be removed from the contract.

Description of procedure

The linestopping procedure is a means of temporarily plugging a water or sewer force main without disrupting pressure or service upstream of the linestop. A pressure tap is first made into the main, allowing insertion of the linestop-plugging device into the main under pressure. By using a special linestop fitting, the tapping valve can be recovered after the linestop-plugging head has been removed from the main. The suggested procedure consists of the following fourteen steps.

- 1 Excavate, expose, and clean the exterior of the main.
- 2 Assemble split linestop fitting around the main.
- 3 Mount temporary tapping valve to nozzle of fitting.
- 4 Pressure test.
- 5 Mount tapping machine; open valve; pressure tap; retract cutter; close temporary valve; remove tapping machine.
- 6 Mount linestop machine; open temporary valve; insert linestop plugging head into main.
- 7 Test for shutdown.
- 8 Cut downstream main. Perform required work.
- 9 Refill downstream piping. Pressure test.
- 10 Retract linestop plugging head. Close temporary valve. Remove linestop machine.
- 11 Install completion machine; open valve.
- 12 Insert completion plug into nozzle of linestop fitting.
- 13 Remove completion machine and temporary valve.
- 14 Install screwed pipe cap or blind flange onto nozzle of linestop fitting.

Interruption of flow

The existing water mains, upstream of the linestop(s), cannot be shut down or taken out of service.

To ensure that the entire operation shall be accomplished without interruption of upstream water service of flow, the installation shall be accomplished by Contractor personnel skilled and experienced in the procedures specified to linestops of this size on cast iron or ductile iron water main.

Linestop fittings:

The linestop fitting shall consist of a two (2) part, full encirclement stainless steel saddle with a stainless steel nozzle MIG welded to the upper saddle half. Accessories shall include all fasteners and gaskets noted below.

The stainless steel used in the saddle halves shall be Type 304, a minimum of 16 gauge (.0598") thick.

The linestop nozzle shall be machined from seamless pipe or tubing and shall have an external pipe thread to receive a screwed pipe cap at the end of the work. The interior shall be threaded to receive the completion plug.

The full encirclement saddle gasket shall be molded from an elastomer compound that will resist compression set and is compatible with drinking water in the temperature range of -40 to 150 degrees F.

The gasket shall have molded grid pattern on the surface that seals against the main. The longitudinal ends of the gasket shall be tapered to allow sealing at the lap joint.

Materials for bolts and nuts shall be Type 304 stainless steel.

If applicable, the linestop fittings shall be compatible with the end users existing Hydra-Stop equipment.

Diameter and condition of mains

Sizes of mains shown on plans have been taken from records, and were not verified in the field. The class of iron pipe is not known.

Heavy tuberculation can be anticipated in the existing mains.

Material drawings

At request of the Engineer, the Contractor shall submit three (3) sets of drawings, furnished by the manufacturers, fully and distinctly illustrating and describing the linestop fitting proposed to be furnished.

Installation of linestop fitting

Contractor shall first wire brush and grind the exterior of the main to remove any debris, corrosion, or other surface irregularities that might interfere with the proper sealing of the linestop-fitting gasket.

Under no circumstances shall the Contractor attempt to reshape or bend a linestop saddle in order to obtain greater gasket compression.

All gasket-sealing surfaces shall be thoroughly coated with sealing compound prior to assembly around the main. Fasteners shall be tightened in accordance with manufacturer's instructions.

Pressure test

The assembled linestop fitting and valve assembly shall be pressure tested.

Thrust and support blocking

If the existing main is to be cut in the same excavation as the linestop, the Contractor will be responsible for bracing or restraining the water main clamp snugly against the linestop fitting and bracing with timbers against undisturbed soil in the excavation.

Cutting operation

Drilling equipment shall be in good condition, and equipped with a power drive to insure smooth cutting and to minimize shock and vibration.

Cutting equipment is to be chlorinated prior to starting the pressure tap.

Linestop operation

The resilient plugging (sealing) elements shall be free from cuts, nick or other surface defects that could prevent a satisfactory shutdown. The sealing elements shall be inserted into the main by self-contained hydraulic or jackscrew actuators.

Linestop Units are to be lightweight so they can be handled by manpower alone (no crane necessary).

The units furnished will be able to shut down heavily tuberculated lines through the expansion of the Stopper Rubber itself. Stationary (nonexpendable) stoppers needing a brushing technique are not acceptable.

No two holing (line-up), or knowledge of direction of flow will be necessary.

In the event that a satisfactory initial shutdown cannot be obtained by a linestop, contractor shall repeatedly insert and remove the plugging head in an effort to break up tuberculation or other debris that interferes with a good shutdown.

If a satisfactory shutdown cannot be made at that location, the contractor will, at his own expense, install a new linestop fitting upstream of the first, and continue repeating the process until a satisfactory shutdown is accomplished.

Linestop Equipment is to be chlorinated prior to inserting into the main.

Extent of shutdowns

Shutdowns will be accomplished using linestops alone, or in combination with existing valves. Because of the interior condition of the mains and/or the age of the valves, "bottle-tight" shutdowns are not anticipated. A satisfactory shutdown is one which allows the required work (i.e. valve replacements, etc.) using drainage pumps to de-water the excavation, with workmen wearing boots and rain gear, if necessary.

If leakage is excessive, Contractor and municipal personnel will cooperate in using "geophones" or other listening devices to determine where the leakage is occurring. If excessive leakage is flowing through the municipal water valves, the municipality will determine whether to close additional valves or to authorize a Contract Extra to install more linestops.

In the event that a linestop location is abandoned, through no fault of the Contractor, he shall be entitled to payment for that linestop.

Restoration

The linestop work will generally be performed in either a parkway or a pavement area. It is the intent of the contract to replace any area disturbed by means of construction with a condition that is equal to, or better than, that which existed prior to the construction work. Subsequently, the contractor shall perform the restoration in accordance with the restoration special provision.

Basis of payment

This work will be paid for at the contract unit price each for WATER MAIN LINESTOP [SPECIFIED SIZE], which price shall include all materials, equipment and labor necessary to perform the work as herein specified.

WATER MAIN REMOVAL

At locations indicated on the plans the existing water main to be abandoned shall be cut and capped and the appropriate section as marked and removed. Trench backfill shall be provided in the trench after the water main is removed and shall be provided and paid for separately. The cost for this work including excavation,

pipe removal, and pipe disposal shall be paid for at the contract unit price per FOOT for REMOVE EXISTING WATER MAIN, [SPECIFIED SIZE]. The cost for cutting the water main and capping the ends shall be paid for at the contract unit price per EACH for CUT AND CAP EXISTING [SPECIFIED SIZE] WATER MAIN. This work includes the furnishing of a mechanical joint or push on restrained plug on the dead end of existing water main lines that remain in service.

ABANDON VALVE VAULT

This work consists of removal of existing valve vaults as shown on the plan or as directed by the Engineer. The vault shall be completely removed and the resulting hole shall be filled with trench backfill to the top of subgrade.

This work, including the removal of the vault and backfill, will be measured by count and paid for at the contract unit price EACH for ABANDON VALVE VAULT.

WATER SERVICE, AUGERED (LONG)

This item shall include the installation of new water services, augured beneath the roadway, and all necessary appurtenances from the new water main to the property line, water meter, or at a location as directed by the Engineer. The water service installation shall start from the property line with a 2" corporation stop. The contractor shall install new connection fittings, 2" k-copper pipe, 2" roundway, curb box (Minneapolis Pattern 2" screw on), connection fittings to 2" fittings, excavation, bedding, and trench backfill with CA-10 as required within the installation limits.

Corporation stops will be a Mueller H-15000. Curb stops shall be the screw on Minneapolis Pattern type. They shall be installed in the parkway and in no case shall be positioned in a sidewalk or driveway or buried underground. A cement or brick block shall be placed under each curb stop to ensure stability. All material shall be as approved by the Owner prior to installation. The cost for the materials, auguring, excavation, reconnection of the water services, water meter connection, removal and abandonment of old curb box, trench backfill material, parkway restoration to the original condition, sidewalk removal and replacement and any pavement removal and replacement shall all be included for at the contract unit price per EACH for [SPECIFIED SIZE] WATER SERVICE LONG (AUGERED).

TRENCH BACKFILL, WATER MAIN, SPECIAL

All water main shall be installed with trench backfill.

All trench widths shall be kept to a minimum during construction operations. The Contractor shall take great care while jetting and tamping during backfilling operations to ensure proper compaction of materials; including areas under unpaved surfaces. All trenches shall be backfilled to the proper subgrade elevation in accordance with Section 208 of the Standard Specifications.

If trench settlement occurs, the Contractor shall, at his own expense, perform all additional work, including further jetting, tamping and/or placement of additional aggregate, necessary to ensure both proper compaction of the trench and proper safety for motorists and pedestrians. Should trench settlement occur after surface restoration, the Contractor shall, at his own expense, remove the newly constructed pavement, driveway, curb and/or sidewalk (by straight saw cut joint) and perform all work required to properly compact the trench and prevent further settling. Restoration of the parkway and additional sodding/hydroseeding shall also be performed.

Paved areas to be disturbed during the construction of storm sewers, water mains, structures, and other incidental construction are clearly indicated in the plans.

All trench types and backfill requirements may vary based on the depth of cover as well as the pipe material being bid. The cost for furnishing, transporting, placing and compacting the trench backfill materials required as a part of this project will be paid for at the contract unit price per FOOT of TRENCH BACKFILL, WATER MAIN SPECIAL. No additional consideration will be given to over-excavation resulting from the use of trench boxes.

STEEL SLEEVE- OPEN CUT

This work shall consist of furnishing spiral welded, steel casing of the thickness listed in the table below and of the outer diameter specified on the plans or as directed by the Engineer. The sleeve shall meet ASTM A139 and ANSI/AWWA C200 (AWWA Standard for Steel Water Pipe—6 in. (150 mm) and Larger), Grade B, minimum yield strength of 35,000 psi. Sleeves shall extend at least two feet (2') beyond the outer edge of the existing pavement or sewer pipe, as indicated in the detail drawings, unless otherwise approved by the Engineer. All work shall be done in accordance with Section 552 of the Standard Specifications.

After installation of the steel sleeve is completed, the proposed water main shall be constructed in place within the sleeve. The water main shall be inserted and centered by use of stainless steel casing spacers at a maximum spacing of 10 feet. Casing spacers shall be bolt on style with a two-piece shell made from T-304 stainless steel of a minimum 14-gauge thickness. Each shell section shall have bolt flanges formed with ribs for added strength. Each connecting flange shall have a minimum of three 5/16" T-304 bolts. The shell shall be lined with a ribbed PVC extrusion with a retaining section that overlaps the edge of the shell and prevents slippage. Bearing surfaces (runners) made from UHMW polymer with a static coefficient of friction of 0.11-0.13 shall be attached to support structures (risers) at appropriate positions to properly support the carrier within the casing and to ease installation. The runners shall be attached mechanically by T-304 threaded fasteners inserted through the punched riser section and TIG welded for strength. Risers shall be made of T-304 14 gauge stainless steel. All risers over two inches (2") in height shall be reinforced. Risers shall be MIG welded to the shell. All metal surfaces shall be fully passivated. The ends of the sleeve shall be sealed using a method approved by the Engineer.

The cost for casing spacers, filling of the annular space (if required), and furnishing and installing the steel sleeve shall be included in the contract unit price for the steel sleeve. Unless otherwise shown on the plans, steel sleeves [casings] shall be of the size and thickness shown in the table below:

Standard Sizes of Steel Sleeves Used As Casings*

<u>Carrier Pipe ID in Inches</u>	<u>Casing Wall Thickness in</u> <u>Inches</u>	<u>Casing Outside Diameter in</u> <u>Inches</u>
6	0.344	16
8	0.344	20
12	0.375	24
16	0.469	30
20	0.563	36
24	0.625	42
30	0.719	48
36	0.781	54
42	0.875, 0.938	60, 66
48	1.000	72

The cost of furnishing and installation of the steel sleeve, and all incidental work necessary for its installation, including casing spacers, will be paid for at the contract unit price per FOOT for [SPECIFIED SIZE] DIAMETER STEEL SLEEVE, [SPECIFIED SIZE] WALL THICKNESS, OPEN CUT. The cost for water main constructed within the sleeves will be paid for at its unit price.

SPECIAL PROVISIONS

RELATIVE TO FLAGGING AND OTHER PROTECTION OF RAILROAD COMPANY TRAFFIC AND FACILITIES DURING CONSTRUCTION ADJACENT AND ABOVE, ON OR ACROSS, THE PROPERTY OF, OR ON, ABOVE AND BENEATH THE TRACKS OF THE ILLINOIS CENTRAL RAILROAD COMPANY

The Licensee shall, before entering upon the property of Railroad Company for performance of any work, secure a fully executed right of entry license from Railroad Company's Engineering Manager or their authorized representative for the occupancy and use of Railroad Company's property. Licensee shall confer with Railroad Company relative to requirements for railroad clearances, operation and general safety regulations.

Prior to any entry onto Railroad Company's property, employees and/or contractor(s) of Licensee doing work shall determine by the guidelines hereinafter provided and by the work to be performed the level of safety training to be required.

All employees and/or contractor(s) of Licensee not hired by Railroad Company that will work on CN property are required to have minimum www.contractororientation.com.

- a. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.

All employees and/or contractor(s) of Licensee hired by Railroad Company which will work on Railroad Company property are required to have minimum CN Safety and Security Awareness training, in addition to undergoing a background check. This training and background check must be obtained through the eRailSafe.com website. If not done before, the contractor must contact e-RailSafe at 855-383-7434 to be issued either a vendor number or issued instructions on obtaining a non-railroad contractor vendor number prior to accessing the noted website. Minimum information required of the Licensee and/or their contractor when contacting e-RailSafe is Name, Address, Telephone, Contact Person for State Projects, DOT Contract Number, and the AAR/DOT Number. This training is good for a period of two years.

- a. EXCEPTION: Railroad Company has exempted those employees of contractors providing paving services at a road crossing under construction or repair from this requirement.
- b. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.

All employees and/or contractor(s) of Licensee hired by Railroad Company, whose duties include and who are engaged in the inspection, construction, maintenance, or repair of railroad track, bridges, roadway, signal and communication systems, roadway facilities, or roadway machinery that will work foul of or have the potential to foul a live track are considered Roadway Workers under FRA regulations and CN Policy. They must complete the On-Track Safety Training course approved by Railroad Company and provided by R.R. Safety - AMR, P.O. Box 75, Lomira, WI 53048, telephone (920) 517-1677, email rrsafetytraining@yahoo.com. This training must be repeated at least once each calendar year.

- a. EXCEPTION: Railroad Company has exempted those employees of contractors providing paving services at a road crossing under construction or repair from this requirement.
- b. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.
- c. All the employees and/or contractor(s) of Licensee who will operate on-track machinery or those who will provide protection for other employees and/or contractor(s) of Licensee must also be trained on CN US Operating Rules pertaining to their duties. They must take and pass the required examination. This training is good for a period of two years.
- d. "Potential to foul a live track" is considered, at a minimum, to be working within twenty-five feet of the track; or as otherwise to be determined by CN Design & Construction Department.

The employees, contractor(s) , and/or agents of the Licensee and/or its contractor shall qualify for, and make available for inspection to Railroad Company's employees or other authorized personnel at all times while on Railroad Company property, a photo identification issued by www.e-railsafe.com, along with at least one other government-issued form of identification. Licensee and/or their contractor shall bear all costs of compliance with the requirements of this Section. Railroad Company reserves the right to bar any of employees or agents of Licensee and/or their contractor from Railroad Company's property at any time for any reason.

Licensee and/or any contractor engaged on their behalf, shall at all times conduct work in a manner satisfactory to the Engineering Manager of Railroad Company, or their authorized representative, and shall exercise care so as to not damage the property of Railroad Company, or that belonging to any other grantees, licensees, permittees or tenants of Railroad Company, or to interfere with railroad operations.

Engineering Manager of Railroad Company, or their authorized representative, will at all times have jurisdiction over the safety of railroad operations., The decision of the Engineering Manager or their authorized representative as to procedures which may affect the safety of railroad operations shall be final, and Licensee and/or their contractor shall be governed by such decision.

All work shall be conducted in such a manner as will assure the safety of Railroad Company. Railroad Company's authorized representative shall have the right, but not the duty, to require certain procedures to be used or to supervise the work on Railroad Company's property.

Should any damage occur to Railroad Company property as a result of the authorized or unauthorized operations of Licensee and/or their contractor and Railroad Company deems it necessary to repair such damage or perform any work for the protection of its property or operations, the Licensee and/or their contractor, as the case may be, shall promptly reimburse Railroad Company for the actual cost of such repairs or work. For the purpose of these Special Provisions, actual cost shall be deemed to include the direct cost of any labor, materials, equipment, or contract expense plus Railroad Company's current standard additives in each instance.

If the work requires the construction of a temporary grade crossing across the track(s) of Railroad Company, Licensee and/or their contractor shall make the necessary arrangements

and execute Railroad Company's temporary grade crossing agreement for the construction, protection, maintenance, and later removal of such temporary grade crossing. The cost of such temporary grade crossing construction and later removal shall be prepaid to Railroad Company. Additional costs for repairs, maintenance or protection will be paid within thirty (30) days upon receipt of bill(s) therefor.

Licensee and/or their contractor shall at no time cross Railroad Company's property or tracks with vehicles or equipment of any kind or character, except at such temporary grade crossing as may be constructed as outlined herein, or at any existing and open public grade crossing. Operation over such crossing shall be at the direction and method of Railroad Company's Engineering Manager or their authorized representative.

Railroad Company may, at Licensee's and/or their contractor's sole cost, risk and expense, furnish whatever protective services it considers necessary, including, but not limited to, flagger(s), inspector(s), and stand-by personnel. Flagging protection, inspection services, or standby personnel required by Railroad Company for the safety of railroad operations because of work being conducted by Licensee and/or their contractor, or in connection therewith, will be provided by Railroad Company and the cost of Licensee and shall be prepaid to Railroad Company by Licensee and/or their contractor. Flagging protection, inspection services, or standby personnel, necessary or provided in excess of prepayment amounts will be billed at the proper rates and will be promptly paid by overnight delivery.

In the event Railroad Company is unable to furnish protective services at the desired time or on the desired date(s), or if Licensee's prepayment for such services is exhausted and not replenished by Licensee and/or their contractor, Licensee and/or their contractor shall not perform any work on Railroad Company's property until such time and date(s) that appropriate Railroad Company services can be made available and/or appropriate prepayment is received. It is understood that Railroad Company shall not be liable for any delay or increased costs incurred by Licensee and/or their contractor owing to Railroad Company's inability or failure to have appropriate protective services available at the time or on the date requested.

Licensee and/or their contractor shall request and secure flagging protection by written notice to Railroad Company using CN's "Request for Flagging Services" form. This form must be submitted at least ten (10) working days in advance of proposed performance of any work or access to Railroad Company's property.

Flagging protection will be required during any operation involving direct and potential interference with Railroad Company's tracks or traffic. This may include but is not limited to fouling of railroad operating clearances, reasonable proximity of accidental hazard to railroad traffic, work within twenty-five (25) feet horizontally of the nearest centerline of any railroad track, any work over any railroad track, or in any other condition that Railroad Company deems protective services necessary, which may include work on or off Railroad Company's property more than twenty-five (25) feet from the nearest centerline of any railroad track, such as any equipment extension (including but not limited to a crane boom) that will reach or has the potential to reach within twenty-five (25) feet of any track.

Licensee and/or their contractor shall request, prepay, and secure Railroad Company signal facility locates by written notice to Railroad Company along with submission of CN's "Request for Flagging Services" form at least ten (10) working days in advance of proposed performance of any work or access to Railroad Company property. Notice to Railroad Company does not fulfill or satisfy any other notification requirements for utility locates for non-railroad facilities.

Railroad Company may require that prior to digging, trenching, or boring activities on or near Railroad Company property, or beneath any railroad track, an on-site meeting be

conducted with Railroad Company's Signal Department representative. No digging, trenching or boring activities shall be conducted in the proximity of any known buried Railroad Company signal cables without Railroad Company's Signal Department representative being present.

The rate of pay for Railroad Company employees will be the prevailing hourly rate for not less than eight (8) hours for the class of labor at regular rates during regularly assigned work hours, and at overtime rates outside of regular hours and in accordance with Labor Agreements or Schedules plus Railroad Company's current standard additives in each instance.

Wage rates are subject to change, at any time, by law or agreement between Railroad Company and employees, and may be retroactive because of negotiations or a ruling by an authorized Governmental Agent. If the wage rates are changed, Licensee and/or their contractor shall pay on the basis of the new rates and/or additives.

No digging, trenching, or boring on Railroad Company property shall be conducted without Railroad Company's written approval of the plans that were furnished to Railroad Company's Engineering Manager at least thirty (30) in advance of the excavation.

The following temporary clearances are the minimum that must be maintained at all times during any operation on or adjacent to Railroad Company property:

- Vertical: 22'-0" (7.00 m) above top of highest rail within 12'-0" (3.81 m) of the centerline of any track
- Horizontal: 12'-0" (3.81 m) from centerline of the nearest track, measured at right angles thereto

If lesser clearances than the above are required for any part of the work, Licensee and/or their contractor shall secure written authorization from Railroad Company's Engineering Manager for such lesser clearances in advance of the start of that portion of the work.

No materials, supplies, or equipment will be stored within twenty-five (25) feet from the centerline of any railroad track, measured at right angles thereto.

Licensee and/or their contractor will be required upon the completion of the work to remove from within the limits of Railroad Company's property all machinery, equipment, surplus materials, false work, rubbish or temporary buildings, and to leave said property in a condition satisfactory to the Engineering Manager of Railroad Company or their authorized representative.

Nothing in these Special Provisions shall be construed to place any responsibility on Railroad Company for the quality or conduct of the work performed by Licensee and/or their contractor hereunder. Any approval given or supervision exercised by Railroad Company hereunder, or failure of Railroad Company to object to any work done, material used, or method of operation shall not be construed to relieve Licensee and/or their contractor of any obligations pursuant hereto or under the License these Special Provisions are appended to.

Accepted: _____

Print Name: _____



REQUIREMENTS REGARDING FLAGGING AND CABLE LOCATION FOR CONSTRUCTION ON CN

(Hereinafter called "Railroad")
(Revised: Effective August 1st 2013)

NOTE: Flagging and/or Cable Locate fees may apply

A utility or contractor shall not commence, or carry on, any work for installation, maintenance, repair, changing or renewal of any FACILITY, under, over or on RAILROAD property at any location without giving notice to the RAILROAD authorized representative at the RAILROAD's office located at Pontiac, Michigan, Phone (248) 452-4705; and if, in the opinion of the RAILROAD the presence of an authorized representative of the RAILROAD is required to supervise the same, the RAILROAD shall render bills to the utility or contractor for all expenses incurred by it for such supervision. This includes all labor costs for flagmen or cable locate supplied by the RAILROAD to protect RAILROAD operation, and for the full cost of furnishing, installation and later removal of any temporary supports for said tracks, as the RAILROAD's Chief Engineer's Office may deem necessary.

A flagman is required anytime a utility or contractor does any work on or near RAILROAD property within twenty-five (25) feet horizontally of the centerline or any work over any railroad track. The RAILROAD, however, also reserves the right to require a flagman for work on RAILROAD property, which is more than twenty-five (25) feet from the centerline of a railroad track when there are other conditions, or considerations that would dictate the need for a flagman to safeguard the RAILROAD's operations, property and safety of working personnel.

A cable locate of RAILROAD owned facilities may be required to identify and protect Signal & Communication cables that have been installed to provide power, signal control, and wayside communications. These cables are vital to a safe and reliable railway operation. The cable locate will be performed by a qualified RAILROAD employee.

Cost for a cable locate is \$250.00, which is to be prepaid by check before installation is to begin.

Outside contractors are prohibited from driving on, along, or across any track that does not have a CN installed crossing. They may utilize an existing public crossing. The practice of allowing rubber tired equipment to operate over track with no crossing has been banned.

Exceptions to this rule will require the express approval from CN Engineering.

Prior to any project being started, the RAILROAD requires a "Request for Flagging Services" form to be completed and submitted; including check for prepayment based on the number of days and hours flagman protection will be required.

Request for Flagging Services and Cable Location Southern Region

Inquiries may be directed to:
Mary Ellen Carmody
US - Audit Officer CN
700 Pershing Street
Pontiac, Michigan 48340
(248) 452-4705
maryellen.carmody@cn.ca

Date submitted: _____

I: _____ with: _____, am requesting that flagging
(Name) (Company Name)

protection be provided for _____ Is this a continuation of an existing project? Yes No
(Project Name)

All blanks below **must** be **completely** filled in before any flagman request will be honored.

Project Location: _____

RR milepost _____ Street/Intersection: _____

Right of Entry/License/Permit No.: _____ Dated: _____ Railroad: _____
**** You must have an agreement with CN railroad subsidiary, such as a Right of Entry, Permit or Formal Agreement and proof of insurance. You must have flagman protection before you can enter the property.**

Contractor's Contact Person: _____ Phone: _____

Anticipated # of Days Protection is needed: _____ Specific Dates Flagging needed: _____

Project Starting time: _____ Anticipated Ending Time: _____ Anticipated # Hours per Day: _____ hrs.*
* Flagmen start and end time may vary based on type of protection required.

Location for flagman to report: _____

Description of work to be performed _____

Railroad Cable Locate Required? Yes No

A prepayment check **MUST** be sent and received at the address shown at the top of this page before flagman protection will be scheduled. The amount of prepayment is based on the number of days and hours flagman protection is required. The base rate per day for flagman protection is \$1,300.00 for 10 hours, this includes 2 overtime hours to set flags. Additional overtime hours will be billed at the rate of \$150.00 per hour. Weekend and Holidays should be prepaid at the overtime rate of \$150.00 per hour or \$1,500.00 for 10 hours. Any Prepayment for overtime hours not used will be refunded. Cost for cable locate is \$250.00, and must be prepaid as well before installation begins. Separate checks should be sent for cable locate and flagging protection. Checks should be made payable to the railroad subsidiary listed on your Right of Entry, Permit or Formal Agreement.

A Prepayment check and Proof of Insurance **MUST** accompany this form and be received prior to the beginning of this project. Flagman will be provided at your cost, depending on availability, within five (5) business days. If the project runs longer than originally anticipated, MaryEllen Carmody must be contacted by email and an additional check must be submitted before work can resume. Rates are Effective August 1st 2015.

****ALL blanks must be completely filled****

Billing Information:

Company Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Company Phone: _____ Company Fax: _____ E-Mail: _____

(REQUIRED)

I agree to pay for flagging services as requested: _____

(SIGN AND PRINT NAME)

Attach a map and location information and mail this form with cover letter on your company's letterhead, prepayment and proof of insurance to Mary Ellen Carmody at the above address.

Estimated FLAGGING FOR COUNTY WORK

Flagging for the northern and southern CN railroad crossing for construction of roadway work completed by County within twenty-five (25') of tracks.

DOT/AAR Number	Days	Flagging/Day	Total
289 649M (20.90 mp)	45	\$1,300	\$58,500
289 650G (21.60 mp)	45	\$1,300	\$58,500
Total Cost for Flagging			\$117,000

As indicated in the Request for Flagging Services and Cable Location: "The base rate per day for flagman protection is \$1,300.00 for 10 hours, this includes 2 overtime hours to set flags. Additional overtime hours will be billed at the rate of \$150.00 per hour. Weekend and Holidays should be prepaid at the overtime rate of \$150.00 per hour or \$1,500.00 for 10 hours."

Flagging costs will be paid upon invoice based on actual days of flagging provided.

**Manager Public Works**

17641 Ashland Avenue
Homewood, IL 60430

T 708.332.3805

F 708.332.3514

Email:

MaryAnne.Neiner@cn.ca

Right of Entry (ROE) License Agreement Information**Cost is \$750.00* for application**

Railroad Company requires everyone (contractor, consultants, etc.) working on Railroad Company property to have a Right-of-Entry (ROE) License Agreement. ROE license agreement applications are handled by email. Once Railroad Company receives the information requested below, and if application is approved, Railroad Company will draw up a ROE License Agreement, and will forward electronic copy by email for applicant's execution. Applicant must return one (1) executed original copy, a check for \$750.00*, and proof of insurance, together in one package to the address above. Application and ROE License Agreement will be delayed if Railroad Company receives the required documents separately, incomplete, or inaccurate. Railroad Company will return a fully executed digital copy of the ROE License Agreement by email for Applicant's files and records. No work may occur on Railroad Company property nor will flagging protection be provided until ROE License Agreement has been fully executed by both parties and returned. * Fee may be increased for special handling.

Please use this form and return by email to submit application request for a Right of Entry agreement.

Contact name –

Name of Applicant/contractor -

Street Address –

City, State, Zip –

Telephone –

Reason for ROE –

Duration of ROE –

Public Agency's Project No. –

Public agency Easement No. (if known) –

Location of project –

FRA/AAR/DOT Crossing No. –

If unable to locate this number at jobsite, please use following links to obtain:

<http://safetydata.fra.dot.gov/officeofsafety/publicsite/crossing/xingqryloc.aspx>

In Illinois

<http://www.icc.illinois.gov/railroad/advanced.aspx?>

If project job site does not have a FRA/AAR/DOT Crossing Number, please attach an aerial snapshot to help identify specific location.

ROE may take up to 4+ weeks to obtain

FAQ

What are the insurance requirements?

Railroad Company allows outside parties to come onto Railroad Company property to perform work, such as survey or inspection work, installation of pipelines and wirelines, and other work for projects necessitating the occupancy of Railroad Company. Before commencing work, and until the license of allowing such occupancy ends or is terminated, outside parties shall provide and maintain the following insurance in form and amount with companies satisfactory to and as approved by Railroad Company.

1. Minimum insurance required of outside party:
 - A. Statutory Workers Compensation and Employer's Liability Insurance.
 - B. Automobile Liability Insurance in an amount not less than \$1,000,000 combined single limit.
 - C. Commercial General Liability Insurance (Occurrence Form) in an amount not less than \$5,000,000 per occurrence, with an aggregate limit of not less than \$10,000,000. The policy must name Railroad Company and its Parents as additional insureds in the following form:

Illinois Central Railroad Company and its Parents
 Attn: Mary Anne Neiner
 17641 South Ashland Avenue
 Homewood, IL 60430
 (708) 332-3805 (office)
MaryAnne.Neiner@cn.ca

The policy must remove any provisions excluding coverage for injury, loss or damage arising out of or resulting from doing business or undertaking construction or demolition on, near, or adjacent to railroad track or facilities using endorsement CG 2417 10 01 or equivalent approved by Railroad Company.

- D. When outside party is required by Railroad Company or Governing Authority to purchase Railroad Protective Liability Insurance to cover work on, near or adjacent to railroad track or facilities, and outside party is not being hired for this project by Railroad Company, outside party must procure Railroad Protective Liability Insurance in the following form;

This coverage shall be written on an Occurrence Form with limits of not less than \$5,000,000 per occurrence for Bodily Injury, Personal Injury and Physical Damage to Property, with an aggregate limit of not less than \$10,000,000. The policy must name:

Illinois Central Railroad Company and its Parents
 Attn: Mary Anne Neiner
 17641 South Ashland Avenue
 Homewood, IL 60430
 (708) 332-3805 (office)
MaryAnne.Neiner@cn.ca

- E. In the event the privileges provided herein to Applicant involve any work that could result in the discharge, spillage, disposal, release or escape of any Hazardous Material or petroleum product onto the Railroad Company's property, Applicant shall purchase and maintain in effect at all times during the term of this License a Contractor's Pollution Liability policy in an amount not less than two million dollars (\$2,000,000) combined single limit (and with a deductible not to exceed \$50,000) insuring Railroad against any and all damages, costs, liabilities and expenses resulting from on- or off-site bodily injury (including death to any person), on or off-site loss, damage or destruction of property (including that belonging to the parties hereto), and on-or off-site cleanup costs (including expenses incurred in the investigation, removal, remediation, neutralization, or immobilization of contaminated soils, surface water, groundwater or any other contamination) growing out of or incidental to any discharge, spillage, disposal, release, or escape of any Hazardous Material or petroleum product arising therefrom. For purposes of this Agreement, the term "Hazardous Material" shall include,

without limit, any flammable explosives, radioactive materials, hazardous materials, hazardous wastes, hazardous or toxic substances, or related materials defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. §§ 9601, et seq.), the Hazardous Material Transportation Act, as amended (49 U.S.C. §§ 1801, et seq.), the Resource Conservation and Recovery Act, as amended (42 U.S.C. §§ 6901 et seq.), the Toxic Substances Control Act, as amended (15 U.S.C. §§ 2601, et seq.), similar laws or ordinances enacted by any state, county or municipality in which the Property is located, or in the regulations adopted and publications promulgated pursuant to any of the above, as such laws or regulations now exist or may exist in the future.

Applicant is required to advise Railroad Company by thirty (30) day advance written notice when any work to be performed under this License may require Pollution Liability Insurance pursuant to the previous paragraph.

- F. All policies described above must include description of operations, Railroad Company milepost, highway or street name, city and state of location, project number, and Railroad Company contact person on the certificate.
2. Before commencing work, outside party shall deliver to Railroad Company a certificate of insurance evidencing the foregoing coverages and, if requested by Railroad Company, true and complete copies of the policies described above. If the policy is being issued in conjunction with, or as a result of, a city, county or state contract, the policy should be initially submitted to the respective city, county or state agency that will review it first and then forward it to Railroad Company.
 3. Common Policy Provisions. Each policy described in paragraph 1, parts A through E above, must include the following provisions:
 - A. Each policy shall include a waiver by the insurer of any right of subrogation against any recovery by or on behalf of any insured.
 - B. Each policy shall provide for not less than thirty (30) days prior written notice to Railroad Company at the address listed above of cancellation of or any material change in that policy.
 4. It is understood and agreed that the foregoing insurance coverage requirements, and outside party's compliance with those requirements, is not intended to, and shall not, relieve outside party from, or serve to limit, outside party's liability and indemnity obligations under the provisions herein.
 5. Railroad Company shall have the right, from time to time, to revise the amount or form of insurance coverage required as circumstances or changing economic conditions may require. Railroad Company shall give outside party written notice of any such requested change at least thirty (30) days before the date of expiration of the then-existing policy or policies, outside party agrees to, and shall, thereupon provide Railroad Company with such revised policy or policies.
 6. Insurance required of SUBCONTRACTOR:
 - A. If a SUBCONTRACTOR is to be employed by outside party to perform work on Railroad Company under or by the permission for occupancy granted to outside party by Railroad Company, before commencing work, the SUBCONTRACTOR shall provide and thereafter maintain all of the insurance described in paragraph 1, parts A through E, above, in the same forms and amounts as provided for above and subject to the other terms and conditions provided for in paragraphs 2 through 4 above.
 - B. In the alternative, before the SUBCONTRACTOR commences work for outside party on Railroad Company, outside party may provide and thereafter maintain all of the insurance described in paragraph 1, parts A through E, above, in the same forms and amounts as provided for above and subject to the other terms and conditions provided for in paragraphs 2 through 5 above, provided that all such insurance names SUBCONTRACTOR as an additional insured and all such insurance provides coverage to all additional insureds, including Railroad Company, for any liability arising out of work performed by all other additional insureds, including SUBCONTRACTOR.

Is safety training required?

Prior to any entry onto Railroad Company's property, the employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee shall determine by the guidelines hereinafter provided and by the work to be performed the level of safety training to be required.

All employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee not hired by Railroad Company that will work on CN property are required to have minimum www.contractororientation.com.

- a. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.

All employees and/or contractor(s) of Licensee hired by Railroad Company which will work on Railroad Company property are required to have minimum CN Safety and Security Awareness training, in addition to undergoing a background check. This training and background check must be obtained through the eRailSafe.com website. If not done before, the contractor must contact e-RailSafe at 855-383-7434 to be issued either a vendor number or issued instructions on obtaining a non-railroad contractor vendor number prior to accessing the noted website. Minimum information required of the Licensee and/or their contractor when contacting e-RailSafe is Name, Address, Telephone, Contact Person for State Projects, DOT Contract Number, and the AAR/DOT Number. This training is good for a period of two years.

- a. EXCEPTION: Railroad Company has exempted those employees of contractors providing paving services at a road crossing under construction or repair from this requirement.
- b. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.

All employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee hired by Railroad Company, whose duties include and who are engaged in the inspection, construction, maintenance, or repair of railroad track, bridges, roadway, signal and communication systems, roadway facilities, or roadway machinery that will work foul of or have the potential to foul a live track are considered Roadway Workers under FRA regulations and CN Policy. They must complete the On-Track Safety Training course approved by Railroad Company and provided by R.R. Safety – AMR, P.O. Box 75, Lomira, WI 53048, telephone (920) 517-1677, email rrsafetytraining@yahoo.com. This training must be repeated at least once each calendar year.

- a. EXCEPTION: Railroad Company has exempted those employees of contractors providing paving services at a road crossing under construction or repair from this requirement.
- b. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.
- c. All the employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee who will operate on-track machinery or those who will provide protection for other employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee must also be trained on CN US Operating Rules pertaining to their duties. They must take and pass the required examination. This training is good for a period of two years.
- d. "Potential to foul a live track" is considered, at a minimum, to be working within twenty-five (25) feet of the track; or as otherwise to be determined by CN Design & Construction Department.

The employees, subcontractors, and/or agents of the Licensee and/or its contractor shall qualify for, and make available for inspection to Railroad Company's employees or other authorized personnel at all times while on Railroad Company property, a photo identification issued by www.contractororientation.com, along with at least one other government-issued form of identification. Licensee and/or their contractor shall bear all costs of compliance with the requirements of this Section. Railroad Company reserves the right to bar any of employees or agents of a Contractor, Grantee, Licensee, or Permittee and/or their contractor from Railroad Company's property at any time for any reason.

What are the flagging protection rates?

Flagging Protection Rates:

Basic rate – 8 hour minimum = \$1,000.00 – Monday thru Friday regular business hours

Overtime rate – hours in excess of 8 hours = \$150.00/hr non regular business hours

Weekend or holiday rate = \$150.00 per hour with an 8 hour minimum or \$1,200.00

Email the completed first page above to: MaryAnne.Neiner@cn.ca

Revised 07-14-2014

**SPECIAL PROVISION
FOR
TRAFFIC CONTROL DEVICES - DETOUR ROUTING – NORTH CROSSING**

Description. This work shall consist of the furnishing of Sign Panel Type 1 and/or Type 2, complete with retroreflective sign faces, legend and supplemental panels, and installing them on sign supports, sign structures, traffic signal standard or light standard for the implementation of the detour route needed for the full closure of Center Street at the north set of spur tracks at approximate Sta. 73+50. This work shall be completed as determined appropriate and consistent with the requirements set forth in the State of Illinois "Manual on Uniform Traffic Control Devices for Streets and Highways"; the daily monitoring and maintenance of these installations; and the removal of the entire assembly and restoration of area upon completion of the CN Railroad improvements to the north set of spur tracks at approximate Sta. 73+50.

Materials. The sign panel materials shall be as specified in Sections 1090 and 1091 of the Standard Specifications for Road and Bridge Construction. When the installation of sign supports is necessary, they shall meet the requirements for Metal Post Type B of Article 1006.29 of the Standard Specifications for Road and Bridge Construction.

Installation Requirements. Type 1 and/or Type 2 sign panels shall be installed using all required supporting and mounting hardware in accordance with the details shown in the plans or as directed by the Engineer. When used, the metal posts may be driven by hand or mechanical means to a minimum depth of 4 feet measured from the ground line or as shown in the plans. The post shall be protected by a suitable driving cap and if required by the Engineer, the material around the post will be compacted after driving.

If the post is too long, the Contractor may choose to cut the post or embed it further in the ground; however, no splicing of metal posts will be allowed. Any post so cut shall have the cut end completely deburred and treated with a zinc rich paint.

The Contractor shall be responsible for the proper elevation, offset and orientation of all posts as indicated on the plans or as directed by the Engineer.

All posts will be of sufficient length to allow a 7 foot clear-height in urban areas and a 5 foot clear-height in rural areas, or as directed by the Engineer (bottom of panel to elevation of edge of pavement). The tops of all posts shall be nearly flush with the top of the sign and shall not protrude above the sign.

Basis of Payment. This work shall be paid for at the contract lump sum price for TRAFFIC CONTROL DEVICES – DETOUR ROUTING –NORTH CROSSING, which price shall be payment in full for all labor, material, transportation, handling and incidentals necessary to furnish, install, monitor daily, maintain, remove all Sign Panels Type 1 and/or Type 2 and Metal Post Type B indicated on the detour plan and as directed by the Engineer.

**SPECIAL PROVISION
FOR
TRAFFIC CONTROL DEVICES - DETOUR ROUTING – SOUTH CROSSING**

Description. This work shall consist of the furnishing of Sign Panel Type 1 and/or Type 2, complete with retroreflective sign faces, legend and supplemental panels, and installing them on sign supports, sign structures, traffic signal standard or light standard for the implementation of the detour route needed for the full closure of Center Street at the south spur track at approximate Sta. 19+25. This work shall be completed as determined appropriate and consistent with the requirements set forth in the State of Illinois "Manual on Uniform Traffic Control Devices for Streets and Highways"; the daily monitoring and maintenance of these installations; and the removal of the entire assembly and restoration of area upon completion of the CN Railroad improvements to the south spur track at approximate Sta. 19+25.

Materials. The sign panel materials shall be as specified in Sections 1090 and 1091 of the Standard Specifications for Road and Bridge Construction. When the installation of sign supports is necessary, they shall meet the requirements for Metal Post Type B of Article 1006.29 of the Standard Specifications for Road and Bridge Construction.

Installation Requirements. Type 1 and/or Type 2 sign panels shall be installed using all required supporting and mounting hardware in accordance with the details shown in the plans or as directed by the Engineer. When used, the metal posts may be driven by hand or mechanical means to a minimum depth of 4 feet measured from the ground line or as shown in the plans. The post shall be protected by a suitable driving cap and if required by the Engineer, the material around the post will be compacted after driving.

If the post is too long, the Contractor may choose to cut the post or embed it further in the ground; however, no splicing of metal posts will be allowed. Any post so cut shall have the cut end completely deburred and treated with a zinc rich paint.

The Contractor shall be responsible for the proper elevation, offset and orientation of all posts as indicated on the plans or as directed by the Engineer.

All posts will be of sufficient length to allow a 7 foot clear-height in urban areas and a 5 foot clear-height in rural areas, or as directed by the Engineer (bottom of panel to elevation of edge of pavement). The tops of all posts shall be nearly flush with the top of the sign and shall not protrude above the sign.

Basis of Payment. This work shall be paid for at the contract lump sum price for TRAFFIC CONTROL DEVICES – DETOUR ROUTING – SOUTH CROSSING, which price shall be payment in full for all labor, material, transportation, handling and incidentals necessary to furnish, install, monitor daily, maintain, remove all Sign Panels Type 1 and/or Type 2 and Metal Post Type B indicated on the detour plan and as directed by the Engineer.

HMA PLUG AT RAILROAD CROSSING

This item shall consist of the construction of the hot-mix asphalt plugs adjacent to the railroad crossing surface in accordance with the CCHD Detail for P.C.C. Pavement Adjacent to Railroad Grade Crossing. The HMA plug shall consist of the pavement composition as shown on the CCHD Detail. The HMA may be spread and finished by approved hand methods or a spreading and finishing machine approved by the Engineer. The HMA shall be compacted to the satisfaction of the Engineer with a tandem roller or vibratory roller.

This work will be paid for at the contract unit price per TON for HMA PLUG AT RAILROAD CROSSING and will include all materials, equipment and labor required to complete the work as specified above.

FENCE REMOVAL

This work shall consist of the removal of the various types of fence and/or gates shown on the plans.

The Contractor shall remove the fence including any concrete base for posts, below the proposed grade line. Disposal of all materials shall be the responsibility of the Contractor. The Contractor may reflect salvage value of the fence if he deems it worthwhile.

Basis of Payment: This work shall be paid for at the contract unit price of FOOT for FENCE REMOVAL, which prices shall include the cost of all excavation, removal of existing foundations, disposal of all waste materials, the furnishing and placing of all backfill material, and equipment necessary to complete the work in accordance with the plans and these special provisions.

CHAIN LINK FENCE, 6 FT. (SPECIAL)

This work shall be in accordance with Section 664 of the Standard Specifications except as modified herein. The fence shall be installed with barbed wire along the top of the fence matching the adjacent fence sections.

Basis of Payment: This work shall be paid for at the contract unit price of FOOT for CHAIN LINK FENCE, 6 FT. (SPECIAL) which prices shall include the cost of all materials, equipment and labor required to complete the work as specified above.

TEMPORARY CHAIN LINK FENCE

This work shall consist of furnishing, installing, maintaining and removing temporary chain link fence at the location as shown on the plans. Temporary chain link fence must be utilized around the temporary construction easement fronting the UPS property during construction until the permanent chain link fence can be reinstalled in its original location. The work completed should be in accordance with Section 664 of the IDOT Standard Specifications except as modified herein.

The temporary chain link fence shall be at least 6 feet in height. The fence shall be self-standing without the need to disturb the surface ground by excavation. Concrete foundations for the fence posts shall not be required.

Temporary Chain Link Fence shall be measured for payment in feet, along the top of the fence from the center to center of end posts.

Basis of Payment: This work shall be paid for at the contract unit price of FOOT for TEMPORARY CHAIN LINK FENCE, which prices shall include the cost of all labor, materials, equipment, furnishing, installing, maintaining and incidentals necessary for placement, removal and disposal of the fence.

STORM SEWERS

This work shall be in accordance with Section 550 of the Standard Specifications except as modified herein. All storm sewer shall be reinforced concrete culvert, storm drain and sewer pipe. The entire length of storm sewer pipe shall be backfilled with trench backfill which is paid for separately.

This work shall be paid for at the contract unit price per FOOT for STORM SEWERS, of the TYPE, RCCP CLASS and SIZE indicated on the plans.

CATCH BASINS, MANHOLES AND INLETS WITH FRAMES AND GRATES

This work shall be in accordance with the County Drainage Standards included in the plans and Section 602 of the Standard Specifications except as modified herein. The specific types of frames and grates or lids will be called out on the plans, but will not be paid for per specific frame and grate or lid.

This work shall be paid for at the contract unit price per EACH for CATCH BASINS, MANHOLES or INLETS, of the TYPE and SIZE indicated on the plans WITH FRAMES AND GRATES.

REINFORCED CONCRETE END SECTION, 36" SPECIAL

This work shall consist of the construction of a triple 36" headwall on a skew according to the applicable portions of Section 542 of the Standard Specifications, the details provided in the plans, and as directed by the Engineer. The contractor shall submit catalog cuts for review and approval prior to the manufacturing of this structure. This work shall be paid for at the contract unit price per EACH for REINFORCED CONCRETE END SECTION, 36" SPECIAL and shall include all work described herein.

INLINE CHECK VALVES

This work shall consist of the furnishing and the installation of INLINE CHECK VALVES of the size and at the location indicated in the contract drawings.

The check valves shall be installed inside of the effluent pipe(s) of the 8' diameter manhole and shall be elastomeric check valves as approved by the Resident Engineer.

Submit manufacturer's data and details of following items for approval:

1. Shop Drawings:
 - a. Includes technical data and drawings specially prepared for this Project, including valve materials of construction and dimensions, and similar information not in standard printed form.
 - b. Standard information prepared without specific reference to the Project is not considered a Shop Drawing.
2. Product Data:
 - a. Includes standard printed information on manufactured products, and systems that have been specially prepared for this Project, including manufacturer's product specifications and installation instructions, information on the performance and operation of the valve,

materials of construction, dimensions and weights, elastomer characteristics, headloss, flow data and pressure ratings.

3. Miscellaneous Submittals:

- a. Work-related submittals that do not fit in the previous categories, such as guarantees, warranties, certifications, experience records, maintenance agreements, Operating and Maintenance Manuals, workmanship bonds, survey data and reports, physical work records, quality testing and certifying reports, copies of industry standards, record drawings, field measurement data, and similar information, devices, and materials applicable to the Work.

PART 1: GENERAL

1.02 QUALITY ASSURANCE

A. Supplier shall have at least twelve (12) years' experience in the design and manufacture of elastomeric check valves.

B. Manufacturer shall have conducted independent hydraulic testing to determine headloss, jet velocity and vertical opening height characteristics on multiple sizes of valves ranging from 4" through 72". The testing must have been conducted for free discharge (discharge to atmosphere) and submerged conditions.

PART 2: PRODUCTS

2.01 ELASTOMERIC CHECK VALVES

A. Check Valves are to be all rubber and the flow operated check type with slip-in cuff or flange connection. The entire valve shall be ply reinforced throughout the body, disc and bill, which is cured and vulcanized into a one-piece unibody construction. A separate valve body or pipe used as the housing is not acceptable. The valve shall be manufactured with no metal, mechanical hinges or fasteners, which would be used to secure the disc or bill to the valve housing. The port area of the disc shall contour down, which shall allow passage of flow in one direction while preventing reverse flow. The entire valve shall fit within the pipe I.D. Once installed, the valve shall not protrude beyond the face of the structure or end of the pipe.

B. The downstream end of the valve must be circumferentially in contact with the pipe while in the closed positions.

C. Slip-in style valves will be furnished with a set of stainless steel expansion clamps. The clamps, which will secure the valve in place, shall be installed inside the cuff portion of the valve, based on installation orientation, and shall expand outwards by means of a turnbuckle. Each clamp shall be predrilled allowing for the valve to be pinned and secured into position in accordance with the manufacturer's installation instructions. Flange style valves will be furnished with a stainless steel, ANSI 125/150 drilled, retaining ring unless specified otherwise.

D. Manufacturer must have flow test data from an accredited hydraulics laboratory to confirm pressure drop and hydraulic data. Company name, plant location, valve size patent number, and serial number shall be bonded to the check valve.

2.02 FUNCTION

A. When line pressure exceeds the backpressure, the line pressure forces the bill and disc of the valve open, allowing flow to pass. When the backpressure exceeds the line pressure, the bill and disc of the valve is forced closed, preventing backflow.

2.03 MANUFACTURER

A. All valves shall be of the slip-in or flanged. All valves shall be manufactured in the U.S.A.

PART 3: EXECUTION

3.01 INSTALLATION

A. Valve shall be installed in accordance with manufacturer's written Installation and Operation Manual and approved submittals.

3.02 MANUFACTURER'S CUSTOMER SERVICE

A. Manufacturer's authorized representative shall be available for customer service during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the valve.

B. If specified, the manufacturer shall also make customer service available directly from the factory in addition to authorized representatives for assistance during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the valve.

The cost of furnishing and the installation of the check valves, and all incidental work necessary for its installation will be paid for at the contract unit price bid per EACH for INLINE CHECK VALVES of the size specified.

IMPACT ATTENUATORS

All crash attenuators shall be "Quadguard CZ System" as manufactured by Energy Absorption Systems, Inc. or approved equal. Impact attenuators shall meet, at a minimum, the testing criteria contained in the National Cooperative Highway Research Program (NCHRP) Report 350 for test level 2 and shall be on the Department's current approved list.

Impact attenuators shall be installed according to the manufacturer's specifications and include all necessary transitions between the impact attenuator and the item to which it is attached. Attenuator bases, when required by the manufacturer, shall be constructed on a prepared subgrade according to the manufacturer's specifications. The surface of the base shall be slightly sloped or crowned to facilitate drainage. Impact attenuators shall have a terminal marker applied to their nose and reflectors along their sides.

All maintenance of the impact attenuators shall be the responsibility of the Contractor until removal is directed by the Engineer. When relocation of the temporary impact attenuators is specified, they shall be removed, relocated and reinstalled at the new location. The reinstallation requirements shall be the same as those for a new installation. When the Engineer determines the temporary impact attenuators are no longer required, the installation shall be dismantled with all hardware becoming the property of the Contractor. Surplus material shall be disposed of according to Article 202.03. When impact attenuators have been anchored to the pavement, the anchor holes shall be repaired with rapid set mortar; only enough water to permit placement and consolidation by rodding shall be used and the material shall be struck-off flush.

This work shall be paid for at the contract unit price per EACH for IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 which payment shall include full compensation for furnishing all labor, materials and equipment, complete, in place and accepted, and for all incidentals necessary to complete the work as shown on the plans and specified herein. Relocation of the attenuators shall be paid for at the contract unit price per EACH for IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2.

TRAFFIC BARRIER TERMINAL, TYPE 11

This work shall be in accordance with Section 631 of the Standard Specifications and IDOT Highway Standard 631051-03 except as modified herein. The terminal is to remain as permanent and all references to temporary shall be removed. The same methods of connecting the terminal as shown on the Highway Standard to the proposed Steel Plate Beam, Type A and proposed Concrete Barrier, Double Face, 32 Inch Height shall apply.

This work shall be paid for at the contract unit price per EACH for TRAFFIC BARRIER TERMINAL, TYPE 11.

RAILROAD TRACK REMOVAL

This work shall consist of the removal and satisfactory disposal of existing railroad track as shown on the plans and as directed by the engineer.

This work shall be paid for at the contract unit price per FOOT for RAILROAD TRACK REMOVAL, which payment shall include all excavation, the removal of the steel rails, and any railroad ties and aggregate bedding if encountered. Any backfill required to bring to the subgrade back up to the bottom of the aggregate subgrade for the proposed pavement shall be paid for at the contract unit price per CUBIC YARD for POROUS GRANULAR ENBANKMENT.

DETECTABLE WARNINGS

Detectable warnings shall be installed at curb ramps, medians, and other locations where pedestrians are required to cross a vehicular way in accordance with Standard 424001-07. The contractor shall provide prefabricated cast iron inserts, red in color, to be installed at the ramps.

This work shall be paid for at the contract unit price per SQUARE FOOT for DETECTABLE WARNINGS.

SEEDING, CLASS 7 (MODIFIED)

This work shall be in accordance with Section 250 of the Standard Specifications except as modified herein. The perennial ryegrass shall be substituted with annual ryegrass.

This work shall be paid for at the contract unit price per ACRE for SEEDING, CLASS 7 (MODIFIED).

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State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
QUALITY CONTROL/QUALITY ASSURANCE OF CONCRETE MIXTURES

Effective: April 1, 1992
Revised: January 1, 2015

Add the following to Section 1020 of the Standard Specifications:

1020.16 Quality Control/Quality Assurance of Concrete Mixtures. This Article specifies the quality control responsibilities of the Contractor for concrete mixtures (except Class PC and PS concrete), cement aggregate mixture II, and controlled low-strength material incorporated in the project, and defines the quality assurance and acceptance responsibilities of the Engineer.

A list of quality control/quality assurance (QC/QA) documents is provided in Article 1020.16(g), Schedule D.

A Level I Portland Cement Concrete (PCC) Technician shall be defined as an individual who has successfully completed the Department's training for concrete testing.

A Level II Portland Cement Concrete (PCC) Technician shall be defined as an individual who has successfully completed the Department's training for concrete proportioning.

A Level III Portland Cement Concrete (PCC) Technician shall be defined as an individual who has successfully completed the Department's training for concrete mix design.

A Concrete Tester shall be defined as an individual who has successfully completed the Department's training to assist with concrete testing and is monitored on a daily basis.

Aggregate Technician shall be defined as an individual who has successfully completed the Department's training for gradation testing involving aggregate production and mixtures.

Mixture Aggregate Technician shall be defined as an individual who has successfully completed the Department's training for gradation testing involving mixtures.

Gradation Technician shall be defined as an individual who has successfully completed the Department's training to assist with gradation testing and is monitored on a daily basis.

- (a) Equipment/Laboratory. The Contractor shall provide a laboratory and test equipment to perform their quality control testing.

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The laboratory shall be of sufficient size and be furnished with the necessary equipment, supplies, and current published test methods for adequately and safely performing all required tests. The laboratory will be approved by the Engineer according to the current Bureau of Materials and Physical Research Policy Memorandum "Minimum Private Laboratory Requirements for Construction Materials Testing or Mix Design". Production of a mixture shall not begin until the Engineer provides written approval of the laboratory. The Contractor shall refer to the Department's "Required Sampling and Testing Equipment for Concrete" for equipment requirements.

Test equipment shall be maintained and calibrated as required by the appropriate test method, and when required by the Engineer. This information shall be documented on the Department's "Calibration of Concrete Testing Equipment" forms BMPR PCCQ01 through BMPR PCCQ09.

Test equipment used to determine compressive or flexural strength shall be calibrated each 12 month period by an independent agency, using calibration equipment traceable to the National Institute of Standards and Technology (NIST). The Contractor shall have the calibration documentation available at the test equipment location.

The Engineer will have unrestricted access to the plant and laboratory at any time to inspect measuring and testing equipment, and will notify the Contractor of any deficiencies. Defective equipment shall be immediately repaired or replaced by the Contractor.

- (b) Quality Control Plan. The Contractor shall submit, in writing, a proposed Quality Control (QC) Plan to the Engineer. The QC Plan shall be submitted a minimum of 45 calendar days prior to the production of a mixture. The QC Plan shall address the quality control of the concrete, cement aggregate mixture II, and controlled low-strength material incorporated in the project. The Contractor shall refer to the Department's "Model Quality Control Plan for Concrete Production" to prepare a QC Plan. The Engineer will respond in writing to the Contractor's proposed QC Plan within 15 calendar days of receipt.

Production of a mixture shall not begin until the Engineer provides written approval of the QC Plan. The approved QC Plan shall become a part of the contract between the Department and the Contractor, but shall not be construed as acceptance of any mixture produced.

The QC Plan may be amended during the progress of the work, by either party, subject to mutual agreement. The Engineer will respond in writing to a Contractor's proposed QC Plan amendment within 15 calendar days of receipt. The response will indicate the approval or denial of the Contractor's proposed QC Plan amendment.

- (c) Quality Control by Contractor. The Contractor shall perform quality control inspection, sampling, testing, and documentation to meet contract requirements. Quality control includes the recognition of obvious defects

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and their immediate correction. Quality control also includes appropriate action when passing test results are near specification limits, or to resolve test result differences with the Engineer. Quality control may require increased testing, communication of test results to the plant or the jobsite, modification of operations, suspension of mixture production, rejection of material, or other actions as appropriate. The Engineer shall be immediately notified of any failing tests and subsequent remedial action. Passing tests shall be reported no later than the start of the next work day.

When a mixture does not comply with specifications, the Contractor shall reject the material, unless the Engineer accepts the material for incorporation in the work, according to Article 105.03.

- (1) Personnel Requirements. The Contractor shall provide a Quality Control (QC) Manager who will have overall responsibility and authority for quality control. The jobsite and plant personnel shall be able to contact the QC Manager by cellular phone, two-way radio, or other methods approved by the Engineer.

The QC Manager shall visit the jobsite a minimum of once a week. A visit shall be performed the day of a bridge deck pour, the day a non-routine mixture is placed as determined by the Engineer, or the day a plant is anticipated to produce more than 1000 cu yd (765 cu m). Any of the three required visits may be used to meet the once per week minimum requirement.

The Contractor shall provide personnel to perform the required inspections, sampling, testing, and documentation in a timely manner. The Contractor shall refer to the Department's "Qualifications and Duties of Concrete Quality Control Personnel" document.

A Level I PCC Technician shall be provided at the jobsite during mixture production and placement, and may supervise concurrent pours on the project. For concurrent pours, a minimum of one Concrete Tester shall be required at each pour location. If the Level I PCC Technician is at one of the pour locations, a Concrete Tester is still required at the same location. Each Concrete Tester shall be able to contact the Level I PCC Technician by cellular phone, two-way radio, or other methods approved by the Engineer. A single Level I PCC Technician shall not supervise concurrent pours for multiple contracts.

A Level II PCC Technician shall be provided at the plant, or shall be available, during mixture production and placement. A Level II PCC Technician may supervise a maximum of three plants. Whenever the Level II PCC Technician is not at the plant during mixture production and placement, a Concrete Tester or Level I PCC Technician shall be present at the plant to perform any necessary concrete tests. The Concrete Tester, Level I PCC Technician, or other individual shall also be trained to perform any necessary aggregate moisture tests, if the Level II PCC Technician is not at the plant during mixture production and placement. The Concrete Tester, Level I PCC Technician, plant personnel, and jobsite personnel shall have the ability to contact the

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Level II PCC Technician by cellular phone, two-way radio, or other methods approved by the Engineer.

For a mixture which is produced and placed with a mobile portland cement concrete plant as defined in Article 1103.04, a Level II PCC Technician shall be provided. The Level II PCC Technician shall be present at all times during mixture production and placement. However, the Level II PCC Technician may request to be available if operations are satisfactory. Approval shall be obtained from the Engineer, and jobsite personnel shall have the ability to contact the Level II PCC Technician by cellular phone, two-way radio, or other methods approved by the Engineer.

A Concrete Tester, Mixture Aggregate Technician, and Aggregate Technician may provide assistance with sampling and testing. A Gradation Technician may provide assistance with testing. A Concrete Tester shall be supervised by a Level I or Level II PCC Technician. A Gradation Technician shall be supervised by a Level II PCC Technician, Mixture Aggregate Technician, or Aggregate Technician.

- (2) Required Plant Tests. Sampling and testing shall be performed at the plant, or at a location approved by the Engineer, to control the production of a mixture. The required minimum Contractor plant sampling and testing is indicated in Article 1020.16(g) Schedule A.
 - (3) Required Field Tests. Sampling and testing shall be performed at the jobsite to control the production of a mixture, and to comply with specifications for placement. For standard curing, after initial curing, and for strength testing, the location shall be approved by the Engineer. The required minimum Contractor jobsite sampling and testing is indicated in Article 1020.16(g), Schedule B.
- (d) Quality Assurance by Engineer. The Engineer will perform quality assurance tests on independent samples and split samples. An independent sample is a field sample obtained and tested by only one party. A split sample is one of two equal portions of a field sample, where two parties each receive one portion for testing. The Engineer may request the Contractor to obtain a split sample. Aggregate split samples and any failing strength specimen shall be retained until permission is given by the Engineer for disposal. The results of all quality assurance tests by the Engineer will be made available to the Contractor. However, Contractor split sample test results shall be provided to the Engineer before Department test results are revealed. The Engineer's quality assurance independent sample and split sample testing are indicated in Article 1020.16(g), Schedule C.
- (1) Strength Testing. For strength testing, Article 1020.09 shall apply, except the Contractor and Engineer strength specimens may be placed in the same field curing box for initial curing and may be cured in the same water storage tank for final curing.

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- (2) Comparing Test Results. Differences between the Engineer's and the Contractor's split sample test results will be considered reasonable if within the following limits:

Test Parameter	Acceptable Limits of Precision
Slump	0.75 in. (20 mm)
Air Content	0.9%
Compressive Strength	900 psi (6200 kPa)
Flexural Strength	90 psi (620 kPa)
Slump Flow (Self-Consolidating Concrete (SCC))	1.5 in. (40 mm)
Visual Stability Index (SCC)	Not Applicable
J-Ring (SCC)	1.5 in. (40 mm)
L-Box (SCC)	10 %
Hardened Visual Stability Index (SCC)	Not Applicable
Dynamic Segregation Index (SCC)	1.0 %
Flow (Controlled Low-Strength Material (CLSM))	1.5 in. (40 mm)
Strength (CLSM)	40 psi (275 kPa)
Aggregate Gradation	See "Guideline for Sample Comparison" in Appendix "A" of the Manual of Test Procedures for Materials.

When acceptable limits of precision have been met, but only one party is within specification limits, the failing test shall be resolved before the material may be considered for acceptance.

(3) Test Results and Specification Limits.

- a. Split Sample Testing. If either the Engineer's or the Contractor's split sample test result is not within specification limits and the other party is within specification limits, immediate retests on a split sample shall be performed for slump, air content, slump flow, visual stability index, J-Ring, L-Box, dynamic segregation index, flow (CLSM), or aggregate gradation. A passing retest result by each party will require no further action. If either the Engineer's or Contractor's slump, air content, slump flow, visual stability index, J-Ring, L-Box, dynamic segregation index, flow (CLSM), or aggregate gradation split sample retest result is a failure; or if either the Engineer's or Contractor's strength or hardened visual stability index test result is a failure and the other party is within specification limits; the following actions shall be initiated to investigate the test failure:
1. The Engineer and the Contractor shall investigate the sampling method, test procedure, equipment condition, equipment calibration, and other factors.

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2. The Engineer or the Contractor shall replace test equipment, as determined by the Engineer.
3. The Engineer and the Contractor shall perform additional testing on split samples, as determined by the Engineer.

For aggregate gradation, jobsite slump, jobsite air content, jobsite slump flow, jobsite visual stability index, jobsite J-Ring, jobsite L-Box, jobsite dynamic segregation index, and jobsite flow (CLSM), if the failing split sample test result is not resolved according to 1., 2., or 3., and the mixture has not been placed, the Contractor shall reject the material; unless the Engineer accepts the material for incorporation in the work, according to Article 105.03. If the mixture has already been placed, or if a failing strength or hardened visual stability index test result is not resolved according to 1., 2., or 3., the material will be considered unacceptable.

If a continued trend of difference exists between the Engineer's and the Contractor's split sample test results, or if split sample test results exceed the acceptable limits of precision, the Engineer and the Contractor shall investigate according to items 1., 2., and 3.

- b. Independent Sample Testing. For aggregate gradation, jobsite slump, jobsite air content, jobsite slump flow, jobsite visual stability index, jobsite J-Ring, jobsite L-Box, jobsite dynamic segregation index, jobsite flow (CLSM), if the result of a quality assurance test on a sample independently obtained by the Engineer is not within specification limits, and the mixture has not been placed, the Contractor shall reject the material; unless the Engineer accepts the material for incorporation in the work, according to Article 105.03. If the mixture has already been placed or the Engineer obtains a failing strength or hardened visual stability index test result, the material will be considered unacceptable.
- (e) Acceptance by the Engineer. Final acceptance will be based on the Standard Specifications and the following:
- (1) The Contractor's compliance with all contract documents for quality control.
 - (2) Validation of Contractor quality control test results by comparison with the Engineer's quality assurance test results using split samples. Any quality control or quality assurance test determined to be flawed may be declared invalid only when reviewed and approved by the Engineer. The Engineer will declare a test result invalid only if it is proven that improper sampling or testing occurred. The test result is to be recorded and the reason for declaring the test invalid will be provided by the Engineer.

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- (3) Comparison of the Engineer's quality assurance test results with specification limits using samples independently obtained by the Engineer.

The Engineer may suspend mixture production, reject materials, or take other appropriate action if the Contractor does not control the quality of concrete, cement aggregate mixture II, or controlled low-strength material for acceptance. The decision will be determined according to (1), (2), or (3).

(f) Documentation.

- (1) Records. The Contractor shall be responsible for documenting all observations, inspections, adjustments to the mix design, test results, retest results, and corrective actions in a bound hardback field book, bound hardback diary, or appropriate Department form, which shall become the property of the Department. The documentation shall include a method to compare the Engineer's test results with the Contractor's results. The Contractor shall be responsible for the maintenance of all permanent records whether obtained by the Contractor, the consultants, the subcontractors, or the producer of the mixture. The Contractor shall provide the Engineer full access to all documentation throughout the progress of the work.

The Department's form BMPR MI504, form BMPR MI654, and form BMPR MI655 shall be completed by the Contractor, and shall be submitted to the Engineer weekly or as required by the Engineer. A correctly completed form BMPR MI504, form BMPR MI654, and form BMPR MI655 are required to authorize payment by the Engineer for applicable pay items.

- (2) Delivery Truck Ticket. The following information shall be recorded on each delivery ticket or in a bound hardback field book: initial revolution counter reading (final reading optional) at the jobsite, if the mixture is truck-mixed; time discharged at the jobsite; total amount of each admixture added at the jobsite; and total amount of water added at the jobsite.
- (g) Basis of Payment and Schedules. Quality Control/Quality Assurance of portland cement concrete mixtures will not be paid for separately, but shall be considered as included in the cost of the various concrete contract items.

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SCHEDULE A

CONTRACTOR PLANT SAMPLING AND TESTING			
Item	Test	Frequency	IL Modified AASHTO, IL Modified ASTM, or Illinois Test Procedure ^{1/}
Aggregates (Arriving at Plant)	Gradation ^{2/}	As needed to check source for each gradation number	ITP 2, ITP 11, ITP 27, and ITP 248
Aggregates (Stored at Plant in Stockpiles or Bins)	Gradation ^{2/}	2500 cu yd (1900 cu m) for each gradation number ^{3/}	ITP 2, ITP 11, ITP 27, and ITP 248
Aggregates (Stored at Plant in Stockpiles or Bins)	Moisture ^{4/} : Fine Aggregate	Once per week for moisture sensor, otherwise daily for each gradation number	Flask, Dunagan, Pycnometer Jar, or ITP 255
	Moisture ^{4/} : Coarse Aggregate	As needed to control production for each gradation number	Dunagan, Pycnometer Jar, or ITP 255
Mixture ^{5/}	Slump Air Content Unit Weight / Yield Slump Flow (SCC) Visual Stability Index (SCC) J-Ring (SCC) ^{6/} L-Box (SCC) ^{6/} Temperature	As needed to control production	R 60 and T 119 R 60 and T 152 or T 196 R 60 and T 121 ITP SCC-1 and ITP SCC-2 ITP SCC-1 and ITP SCC-2 ITP SCC-1 and ITP SCC-3 ITP SCC-1 and ITP SCC-4 R 60 and ASTM C 1064
Mixture (CLSM) ^{7/}	Flow Air Content Temperature	As needed to control production	ITP 307

1/ Refer to the Department's "Manual of Test Procedures for Materials".

2/ All gradation tests shall be washed. Testing shall be completed no later than 24 hours after the aggregate has been sampled.

3/ One per week (Sunday through Saturday) minimum, unless the stockpile has not received additional aggregate material since the previous test.

One per day minimum for a bridge deck pour, unless the stockpile has not received additional aggregate material since the previous test. The sample shall be taken and testing completed prior to the pour. The bridge deck aggregate sample may be taken the day before the pour or as approved by the Engineer.

4/ If the moisture test and moisture sensor disagree by more than 0.5 percent, retest. If the difference remains, adjust the moisture sensor to an average of two or more moisture tests. The Department's "Water/Cement Ratio Worksheet" form (BMPR PCCW01) shall be completed, when applicable.

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- 5/ The Contractor may also perform strength testing according to Illinois Modified AASHTO R 60, T 23, and T 22 or T 177; or water content testing according to Illinois Modified AASHTO T 318.

The Contractor may also perform other available self-consolidating concrete (SCC) tests at the plant to control mixture production.

- 6/ The Contractor shall select the J-Ring or L-Box test for plant sampling and testing.
- 7/ The Contractor may also perform strength testing according to ITP 307.

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SCHEDULE B

CONTRACTOR JOBSITE SAMPLING & TESTING ^{1/}			
Item	Measured Property	Random Sample Testing Frequency per Mix Design and per Plant ^{2/}	IL Modified AASHTO, IL Modified ASTM, or Illinois Test Procedure
Pavement, Shoulder, Base Course, Base Course Widening, Driveway Pavement, Railroad Crossing, Cement Aggregate Mixture II	Slump ^{3/ 4/}	1 per 500 cu yd (400 cu m) or minimum 1/day	R 60 and T 119
	Air Content ^{3/ 5/ 6/}	1 per 100 cu yd (80 cu m) or minimum 1/day	R 60 and T 152 or T 196
	Compressive Strength ^{7/ 8/} or Flexural Strength ^{7/ 8/}	1 per 1250 cu yd (1000 cu m) or minimum 1/day	R 60, T 22 and T 23 or R 60, T 177 and T 23
Bridge Approach Slab ^{9/} , Bridge Deck ^{9/} , Bridge Deck Overlay ^{9/} , Superstructure ^{9/} , Substructure, Culvert, Miscellaneous Drainage Structures, Retaining Wall, Building Wall, Drilled Shaft Pile & Encasement Footing, Foundation, Pavement Patching, Structural Repairs	Slump ^{3/ 4/}	1 per 50 cu yd (40 cu m) or minimum 1/day	R 60 and T 119
	Air Content ^{3/ 5/ 6/}	1 per 50 cu yd (40 cu m) or minimum 1/day	R 60 and T 152 or T 196
	Compressive Strength ^{7/ 8/} or Flexural Strength ^{7/ 8/}	1 per 250 cu yd (200 cu m) or minimum 1/day	R 60, T 22 and T 23 or R 60, T 177 and T 23
Seal Coat	Slump ^{3/}	1 per 250 cu yd (200 cu m) or minimum 1/day	R 60 and T 119
	Air Content ^{3/ 5/ 6/}	1 per 250 cu yd (200 cu m) or minimum 1/day when air is entrained	R 60 and T 152 or T 196
	Compressive Strength ^{7/ 8/} or Flexural Strength ^{7/ 8/}	1 per 250 cu yd (200 cu m) or minimum 1/day	R 60, T 22 and T 23 or R 60, T 177 and T 23

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CONTRACTOR JOBSITE SAMPLING & TESTING ^{1/}			
Curb, Gutter, Median, Barrier, Sidewalk, Slope Wall, Paved Ditch, Fabric Formed Concrete Revetment Mat ^{10/} , Miscellaneous Items, Incidental Items	Slump ^{3/ 4/}	1 per 100 cu yd (80 cu m) or minimum 1/day	R 60 and T 119
	Air Content ^{3/ 5/ 6/}	1 per 50 cu yd (40 cu m) or minimum 1/day	R 60 and T 152 or T 196
	Compressive Strength ^{7/ 8/} or Flexural Strength ^{7/ 8/}	1 per 400 cu yd (300 cu m) or minimum 1/day	R 60, T 22 and T 23 or R 60, T 177 and T 23
Items Using Self- Consolidating Concrete	Slump Flow ^{3/} VSI ^{3/} J-Ring ^{3/ 11/} L-Box ^{3/ 11/}	Perform at same frequency that is specified for the Item's slump	ITP SCC-1 & ITP SCC-2 ITP SCC-1 & ITP SCC-2 ITP SCC-1 & ITP SCC-3 ITP SCC-1 & ITP SCC-4
	HVSI ^{12/}	Minimum 1/day at start of production for that day	ITP SCC-1 and ITP SCC-6.
	Dynamic Segregation Index (DSI)	Minimum 1/week at start of production for that week	ITP SCC-1 and ITP SCC-8 (Option C)
	Air Content ^{3/ 5/ 6/}	Perform at same frequency that is specified for the Item's air content	ITP SCC-1 and T 152 or T 196
	Compressive Strength ^{7/ 8/} or Flexural Strength ^{7/ 8/}	Perform at same frequency that is specified for the Item's strength	ITP SCC-1, T 22 and T 23 or ITP SCC-1, T 177 and T 23
All	Temperature ^{3/}	As needed to control production	R 60 and ASTM C 1064
Controlled Low- Strength Material (CLSM)	Flow, Air Content, Compressive Strength (28-day) ^{13/} , and Temperature	First truck load delivered and as needed to control production thereafter	ITP 307

1/ Sampling and testing of small quantities of curb, gutter, median, barrier, sidewalk, slope wall, paved ditch, miscellaneous items, and incidental items may be waived by the Engineer, if requested by the Contractor. However, quality control personnel are still required according to Article 1020.16(c)(1). The Contractor shall also provide recent evidence that similar material has been found to be satisfactory under normal sampling and testing

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procedures. The total quantity that may be waived for testing shall not exceed 100 cu yd (76 cu m) per contract.

If the Contractor's or Engineer's test result for any jobsite mixture test is not within the specification limits, all subsequent truck loads delivered shall be tested by the Contractor until the problem is corrected.

- 2/ If one mix design is being used for several construction items during a day's production, one testing frequency may be selected to include all items. The construction items shall have the same slump, air content, and water/cement ratio specifications. For self-consolidating concrete, the construction items shall have the same slump flow, visual stability index, J-Ring, L-Box, air content, and water/cement ratio specifications. The frequency selected shall equal or exceed the testing required for the construction item.

One sufficiently sized sample shall be taken to perform the required test(s). Random numbers shall be determined according to the Department's "Method for Obtaining Random Samples for Concrete". The Engineer will provide random sample locations.

- 3/ The temperature, slump, and air content tests shall be performed on the first truck load delivered, for each pour. For self-consolidating concrete, the temperature, slump flow, visual stability index, J-Ring or L-Box, and air content tests shall be performed on the first truck load delivered, for each pour. Unless a random sample is required for the first truck load, testing the first truck load does not satisfy random sampling requirements.
- 4/ The slump random sample testing frequency shall be a minimum 1/day for a construction item which is slipformed.
- 5/ If a pump or conveyor is used for placement, a correction factor shall be established to allow for a loss of air content during transport. The first three truck loads delivered shall be tested, before and after transport by the pump or conveyor, to establish the correction factor. Once the correction is determined, it shall be re-checked after an additional 50 cu yd (38 cu m) is pumped, or an additional 100 cu yd (76 cu m) is transported by conveyor. This shall continue throughout the pour. If the re-check indicates the correction factor has changed, a minimum of two truckloads is required to re-establish the correction factor. The correction factor shall also be re-established when significant changes in temperature, distance, pump or conveyor arrangement, and other factors have occurred. If the correction factor is greater than 3.0 percent, the Contractor shall take corrective action to reduce the loss of air content during transport by the pump or conveyor. The Contractor shall record all air content test results, correction factors, and corrected air contents. The corrected air content shall be reported on form BMPR MI654.
- 6/ If the Contractor's or Engineer's air content test result is within the specification limits, and 0.2 percent or closer to either limit, the next truck load delivered shall be tested by the Contractor. For example, if the specified air content range is 5.0 to 8.0 percent and the test result is 5.0, 5.1, 5.2, 7.8, 7.9, or 8.0 percent, the next truck shall be tested by the Contractor.

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- 7/ The test of record for strength shall be the day indicated in Article 1020.04. For cement aggregate mixture II, a strength requirement is not specified and testing is not required. Additional strength testing to determine early falsework and form removal, early pavement or bridge opening to traffic, or to monitor strengths is at the discretion of the Contractor. Strength shall be defined as the average of two 6 x 12 in. (150 x 300 mm) cylinder breaks, three 4 x 8 in. (100 x 200 mm) cylinder breaks, or two beam breaks for field tests. Per Illinois Modified AASHTO T 23, cylinders shall be 6 x 12 in. (150 x 300 mm) when the nominal maximum size of the coarse aggregate exceeds 1 in. (25 mm). Nominal maximum size is defined as the largest sieve which retains any of the aggregate sample particles.
- 8/ In addition to the strength test, a slump test, air content test, and temperature test shall be performed on the same sample. For self-consolidating concrete, a slump flow test, visual stability index test, J-Ring or L-Box test, air content test, and temperature test shall be performed on the same sample as the strength test. For mixtures pumped or conveyed, the Contractor shall sample according to Illinois Modified AASHTO R 60.
- 9/ The air content test will be required for each delivered truck load.
- 10/ For fabric formed concrete revetment mat, the slump test is not required and the flexural strength test is not applicable.
- 11/ The Contractor shall select the J-Ring or L-Box test for jobsite sampling and testing.
- 12/ In addition to the hardened visual stability index (HVSI) test, a slump flow test, visual stability index (VSI) test, J-Ring or L-Box test, air content test, and temperature test shall be performed on the same sample. The Contractor shall retain all hardened visual stability index cut cylinder specimens until the Engineer notifies the Contractor that the specimens may be discarded.
- 13/ The test of record for strength shall be the day indicated in Article 1019.04. In addition to the strength test, a flow test, air content test, and temperature test shall be performed on the same sample. The strength test may be waived by the Engineer if future removal of the material is not a concern.

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SCHEDULE C

ENGINEER QUALITY ASSURANCE INDEPENDENT SAMPLE TESTING		
Location	Measured Property	Testing Frequency ^{1/}
Plant	Gradation of aggregates stored in stockpiles or bins, Slump and Air Content	As determined by the Engineer.
Jobsite	Slump, Air Content, Slump Flow, Visual Stability Index, J-Ring, L-Box, Hardened Visual Stability Index, Dynamic Segregation Index, and Strength	As determined by the Engineer.
	Flow, Air Content, Strength (28-day), and Dynamic Cone Penetration for Controlled Low-Strength Material (CLSM)	As determined by the Engineer

ENGINEER QUALITY ASSURANCE SPLIT SAMPLE TESTING ^{2/}		
Location	Measured Property	Testing Frequency ^{1/}
Plant	Gradation of aggregates stored in stockpiles or bins	At the beginning of the project, the first test performed by the Contractor. Thereafter, a minimum of 10% of total tests required of the Contractor will be performed per aggregate gradation number and per plant.
	Slump, Air Content, Slump Flow (SCC), Visual Stability Index (SCC), J-Ring (SCC), and L-Box (SCC)	As determined by the Engineer.
Jobsite	Slump, Air Content ^{3/} , Slump Flow, Visual Stability Index, J-Ring and L-Box	At the beginning of the project, the first three tests performed by the Contractor. Thereafter, a minimum of 20% of total tests required of the Contractor will be performed per plant, which will include a minimum of one test per mix design.
	Hardened Visual Stability Index	As determined by the Engineer.
	Dynamic Segregation Index	As determined by the Engineer.
	Strength	At the beginning of the project, the first test performed by the Contractor. Thereafter, a minimum of 20% of total tests required of the Contractor will be performed per plant, which will include a minimum of one test per mix design.
	Flow, Air Content, and Strength (28-day) for Controlled Low-Strength Material (CLSM)	As determined by the Engineer.

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- 1/ The Engineer will perform the testing throughout the period of quality control testing by the Contractor.
- 2/ The Engineer will witness and take immediate possession of or otherwise secure the Department's split sample obtained by the Contractor.
- 3/ Before transport by pump or conveyor, a minimum of 20 percent of total tests required of the Contractor will be performed per mix design and per plant. After transport by pump or conveyor, a minimum of 20 percent of total tests required of the Contractor will be performed per mix design and per plant.

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SCHEDULE D

CONCRETE QUALITY CONTROL AND QUALITY ASSURANCE DOCUMENTS

- (a) Model Quality Control Plan for Concrete Production (*)
- (b) Qualifications and Duties of Concrete Quality Control Personnel (*)
- (c) Development of Gradation Bands on Incoming Aggregate at Mix Plants (*)
- (d) Required Sampling and Testing Equipment for Concrete (*)
- (e) Method for Obtaining Random Samples for Concrete (*)
- (f) Calibration of Concrete Testing Equipment (BMPR PCCQ01 through BMPR PCCQ09) (*)
- (g) Water/Cement Ratio Worksheet (BMPR PCCW01) (*)
- (h) Field/Lab Gradations (BMPR MI504) (*)
- (i) Concrete Air, Slump and Quantity (BMPR MI654) (*)
- (j) P.C. Concrete Strengths (BMPR MI655) (*)
- (k) Aggregate Technician Course or Mixture Aggregate Technician Course (*)
- (l) Portland Cement Concrete Tester Course (*)
- (m) Portland Cement Concrete Level I Technician Course - Manual of Instructions for Concrete Testing (*)
- (n) Portland Cement Concrete Level II Technician Course - Manual of Instructions for Concrete Proportioning (*)
- (o) Portland Cement Concrete Level III Technician Course - Manual of Instructions for Design of Concrete Mixtures (*)
- (p) Manual of Test Procedures for Materials

* Refer to Appendix C of the Department's "Manual of Test Procedures for Materials" for more information.

COATED GALVANIZED STEEL CONDUIT (BDE)

Effective: January 1, 2013

Revised: August 1, 2014

Revise Article 811.03(b) of the Standard Specifications to read:

“(b) Coated Galvanized Steel Conduit. In addition to the methods described in Article 810.05(a) the following methods shall be observed when installing coated conduit.

Coated conduit pipe vise jaw adapters shall be used when the conduit is being clamped to avoid damaging the coating.

Coated conduit shall be cut with a roller cutter or by other means approved by the conduit manufacturer.

After any cutting or threading operations are completed, the bare steel shall be touched up with the conduit manufacturer’s touch up compound.”

Revise Article 1088.01(a)(3) of the Standard Specifications to read:

“(3) Coated Galvanized Steel Conduit. The conduit prior to coating shall meet the requirements for rigid metal conduit and be manufactured according to NEMA Standard No. RN1.

The coating shall have the following characteristics.

Hardness	85+ Shore A Durometer
Dielectric Strength	400 V/mil @ 60 Hz
Aging	1,000 Hours Atlas Weatherometer
Brittleness Temperature	0 °F (-18 °C) when tested according to ASTM D 746
Elongation	200 percent

The exterior galvanized surfaces shall be coated with a primer before the coating to ensure a bond between the zinc substrate and the coating. The bond strength created shall be greater than the tensile strength of the plastic coating. The nominal thickness of the coating shall be 40 mils (1 mm). The coating shall pass the following bonding test.

Two parallel cuts 1/2 in. (13 mm) apart and 1 1/2 in. (38 mm) in length shall be made with a sharp knife along the longitudinal axis. A third cut shall be made perpendicular to and crossing the longitudinal cuts at one end. The knife shall then be worked under the coating for 1/2 in. (13 mm) to free the coating from the metal.

Using pliers, the freed tab shall be pulled with a force applied vertically and away from the conduit. The tab shall tear rather than cause any additional coating to separate from the substrate.

A two part urethane coating shall be applied to the interior of the conduit. The internal coating shall have a nominal thickness of 2 mils (50 μm). The interior coating shall be applied in a manner so there are no runs, drips, or pinholes at any point. The coating shall not peel, flake, or chip off after a cut is made in the conduit or a scratch is made in the coating. The urethane interior coating applied shall afford sufficient flexibility to permit field bending without cracking or flaking of the interior coating.

All conduit fittings and couplings shall be as specified and recommended by the conduit manufacturer. All conduit fitting covers shall be furnished with stainless steel screws which have been encapsulated with a polyester material on the head to ensure maximum corrosion protection."

80310

COLIABLE NONMETALLIC CONDUIT (BDE)

Effective: August 1, 2014

Revise Article 1088.01(c) of the Standard Specifications to read:

“(c) Coilable Nonmetallic Conduit. The conduit shall be a high density polyethylene duct which is intended for underground use can be manufactured and coiled or reeled in continuous transportable lengths and uncoiled for further processing and/or installation without adversely affecting its properties or performance. The conduit and its manufacture shall be according to UL Standard 651A.

Performance Tests. Testing procedures and test results shall meet the requirements of UL Standard 651A. Certified copies of the test report shall be submitted to the Engineer prior to the installation of the conduit.”

80341

CONCRETE END SECTIONS FOR PIPE CULVERTS (BDE)

Effective: January 1, 2013

Description. This work shall consist of constructing cast-in-place concrete and precast concrete end sections for pipe culverts. These end sections are shown on the plans as Highway Standard 542001, 542006, 542011, or 542016. This work shall be according to Section 542 of the Standard Specifications except as modified herein.

Materials. Materials shall be according to the following Articles of Division 1000 – Materials of the Standard Specifications.

Item	Article/Section
(a) Portland Cement Concrete (Note 1)	1020
(b) Precast Concrete End Sections (Note 2)	
(c) Coarse Aggregate (Note 3)	1004.05
(d) Structural Steel (Note 4)	1006.04
(e) Anchor Bolts and Rods (Note 5)	1006.09
(f) Reinforcement Bars	1006.10(a)
(g) Nonshrink Grout	1024.02
(h) Chemical Adhesive Resin System	1027
(i) Mastic Joint Sealer for Pipe	1055
(j) Hand Hole Plugs	1042.16

Note 1. Cast-in-place concrete end sections shall be Class SI, except the 14 day mix design shall have a compressive strength of 5000 psi (34,500 kPa) or a flexural strength of (800 psi) 5500 kPa and a minimum cement factor of 6.65 cwt/cu yd (395 kg/cu m).

Note 2. Precast concrete end sections shall be according to Articles 1042.02 and 1042.03(b)(c)(d)(e) of the Standard Specifications. The concrete shall be Class PC according to Section 1020, and shall have a minimum compressive strength of 5000 psi (34,000 kPa) at 28 days.

Joints between precast sections shall be produced with reinforced tongue and groove ends according to the requirements of ASTM C 1577.

Note 3. The granular bedding placed below a precast concrete end section shall be gradation CA 6, CA 9, CA 10, CA 12, CA 17, CA 18, or CA 19.

Note 4. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Note 5. The anchor rods for the culvert ties shall be according to the requirements of ASTM F 1554, Grade 105 (Grade 725).

CONSTRUCTION REQUIREMENTS

The concrete end sections may be precast or cast-in-place construction. Toe walls shall be either precast or cast-in-place, and shall be in proper position and backfilled according to the applicable paragraphs of Article 502.10 of the Standard Specifications prior to the installation of the concrete end sections. If soil conditions permit, cast-in-place toe walls may be poured directly against the soil. When poured directly against the soil, the clear cover of the sides and bottom of the toe wall shall be increased to 3 in. (75 mm) by increasing the thickness of the toe wall.

- (a) **Cast-In-Place Concrete End Sections.** Cast-in-place concrete end sections shall be constructed according to the requirements of Section 503 of the Standard Specifications and as shown on the plans.
- (b) **Precast Concrete End Sections.** When the concrete end sections will be precast, shop drawings detailing the slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval.

The excavation and backfilling for precast concrete end sections shall be according to the requirements of Section 502 of the Standard Specifications, except a layer of granular bedding at least 6 in. (150 mm) in thickness shall be placed below the elevation of the bottom of the end section. The granular bedding shall extend a minimum of 2 ft (600 mm) beyond each side of the end section.

Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 2/3 turn on one of the nuts. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut.

Method of Measurement. This work will be measured for payment as each, with each end of each culvert being one each.

Basis of Payment. This work will be paid for at the contract unit price per each for CONCRETE END SECTION, STANDARD 542001; CONCRETE END SECTION, STANDARD 542006; CONCRETE END SECTION, 542011; or CONCRETE END SECTION, 542016, of the pipe diameter and slope specified.

80311

CONCRETE GUTTER, CURB, MEDIAN, AND PAVED DITCH (BDE)

Effective: April 1, 2014

Revised: August 1, 2014

Add the following to Article 606.02 of the Standard Specifications:

“(i) Polyurethane Joint Sealant 1050.04”

Revise the fifth paragraph of Article 606.07 of the Standard Specifications to read:

“Transverse contraction and longitudinal construction joints shall be sealed according to Article 420.12, except transverse joints in concrete curb and gutter shall be sealed with polysulfide or polyurethane joint sealant.”

Add the following to Section 1050 of the Standard Specifications:

“**1050.04 Polyurethane Joint Sealant.** The joint sealant shall be a polyurethane sealant, Type S, Grade NS, Class 25 or better, Use T (T₁ or T₂), according to ASTM C 920.”

80334

FRICITION AGGREGATE (BDE)

Effective: January 1, 2011

Revised: November 1, 2014

Revise Article 1004.01(a)(4) of the Standard Specifications to read:

"(4) Crushed Stone. Crushed stone shall be the angular fragments resulting from crushing undisturbed, consolidated deposits of rock by mechanical means. Crushed stone shall be divided into the following, when specified.

- a. Carbonate Crushed Stone. Carbonate crushed stone shall be either dolomite or limestone. Dolomite shall contain 11.0 percent or more magnesium oxide (MgO). Limestone shall contain less than 11.0 percent magnesium oxide (MgO).
- b. Crystalline Crushed Stone. Crystalline crushed stone shall be either metamorphic or igneous stone, including but is not limited to, quartzite, granite, rhyolite and diabase."

Revise Article 1004.03(a) of the Standard Specifications to read:

"1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	<u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete

Use	Mixture	Aggregates Allowed				
HMA Low ESAL	Stabilized Subbase or Shoulders	<u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{1/} Crushed Concrete				
HMA High ESAL Low ESAL	Binder IL-19.0 or IL-19.0L SMA Binder	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete ^{3/}				
HMA High ESAL Low ESAL	C Surface and Leveling Binder IL-9.5 or IL-9.5L SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}				
HMA High ESAL	D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone (other than Limestone) ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}				
		<u>Other Combinations Allowed:</u>				
		<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><i>Up to...</i></td> <td style="width: 50%;"><i>With...</i></td> </tr> <tr> <td>25% Limestone</td> <td>Dolomite</td> </tr> </table>	<i>Up to...</i>	<i>With...</i>	25% Limestone	Dolomite
<i>Up to...</i>	<i>With...</i>					
25% Limestone	Dolomite					

Use	Mixture	Aggregates Allowed	
		50% Limestone	Any Mixture D aggregate other than Dolomite
		75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone
HMA High ESAL	E Surface IL-9.5 SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete ^{3/} No Limestone.	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		50% Dolomite ^{2/}	Any Mixture E aggregate
		75% Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone
		75% Crushed Gravel or Crushed Concrete ^{3/}	Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag
HMA High ESAL	F Surface IL-9.5 SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> ^{5/} : Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
		<u>Other Combinations Allowed:</u>	

Use	Mixture	Aggregates Allowed	
		<i>Up to...</i>	<i>With...</i>
		50% Crushed Gravel, Crushed Concrete ^{3/} , or Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as leveling binder.
- 5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."

80265

HOT-MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS (BDE)

Effective: January 1, 2010

Revised: April 1, 2012

Description. This work shall consist of testing the density of longitudinal joints as part of the quality control/quality assurance (QC/QA) of hot-mix asphalt (HMA). Work shall be according to Section 1030 of the Standard Specifications except as follows.

Quality Control/Quality Assurance (QC/QA). Delete the second and third sentence of the third paragraph of Article 1030.05(d)(3) of the Standard Specifications.

Add the following paragraphs to the end of Article 1030.05(d)(3) of the Standard Specifications:

“Longitudinal joint density testing shall be performed at each random density test location. Longitudinal joint testing shall be located at a distance equal to the lift thickness or a minimum of 4 in. (100 mm), from each pavement edge. (i.e. for a 5 in. (125 mm) lift the near edge of the density gauge or core barrel shall be within 5 in. (125 mm) from the edge of pavement.) Longitudinal joint density testing shall be performed using either a correlated nuclear gauge or cores.

- a. Confined Edge. Each confined edge density shall be represented by a one-minute nuclear density reading or a core density and shall be included in the average of density readings or core densities taken across the mat which represents the Individual Test.
- b. Unconfined Edge. Each unconfined edge joint density shall be represented by an average of three one-minute density readings or a single core density at the given density test location and shall meet the density requirements specified herein. The three one-minute readings shall be spaced ten feet apart longitudinally along the unconfined pavement edge and centered at the random density test location.”

Revise the Density Control Limits table in Article 1030.05(d)(4) of the Standard Specifications to read:

“Mixture Composition	Parameter	Individual Test (includes confined edges)	Unconfined Edge Joint Density Minimum
IL-4.75	Ndesign = 50	93.0 – 97.4%	91.0%
IL-9.5, IL-12.5	Ndesign ≥ 90	92.0 – 96.0%	90.0%
IL-9.5, IL-9.5L, IL-12.5	Ndesign < 90	92.5 – 97.4%	90.0%
IL-19.0, IL-25.0	Ndesign ≥ 90	93.0 – 96.0%	90.0%
IL-19.0, IL-19.0L, IL-25.0	Ndesign < 90	93.0 – 97.4%	90.0%

SMA	Ndesign = 50 & 80	93.5 – 97.4%	91.0%
All Other	Ndesign = 30	93.0 - 97.4%	90.0%”

80246

HOT-MIX ASPHALT – MIXTURE DESIGN COMPOSITION AND VOLUMETRIC REQUIREMENTS (BDE)

Effective: November 1, 2013

Revised: November 1, 2014

Revise the last sentence of the first paragraph of Article 312.05 of the Standard Specifications to read:

“The minimum compacted thickness of each lift shall be according to Article 406.06(d).”

Delete the minimum compacted lift thickness table in Article 312.05 of the Standard Specifications.

Revise the second paragraph of Article 355.02 of the Standard Specifications to read:

“The mixture composition used shall be IL-19.0.”

Revise Article 355.05(a) of the Standard Specifications to read:

“(a) The top lift thickness shall be 2 1/4 in. (60 mm) for mixture composition IL-19.0.”

Revise the Leveling Binder table and second paragraph of Article 406.05(c) of the Standard Specifications to read:

“Leveling Binder	
Nominal, Compacted, Leveling Binder Thickness, in. (mm)	Mixture Composition
≤ 1 1/4 (32)	IL-4.75, IL-9.5, or IL-9.5L
> 1 1/4 to 2 (32 to 50)	IL-9.5 or IL-9.5L

The density requirements of Article 406.07(c) shall apply for leveling binder, machine method, when the nominal compacted thickness is: 3/4 in. (19 mm) or greater for IL-4.75 mixtures; and 1 1/4 in. (32 mm) or greater for IL-9.5 and IL-9.5L mixtures.”

Revise the table in Article 406.06(d) of the Standard Specifications to read:

“MINIMUM COMPACTED LIFT THICKNESS	
Mixture Composition	Thickness, in. (mm)
IL-4.75	3/4 (19)
IL-9.5, IL-9.5L	1 1/4 (32)
SMA-12.5	1 1/2 (38)
IL-19.0, IL-19.0L	2 1/4 (57)”

Revise the ninth paragraph of Article 406.14 of the Standard Specifications to read:

"Test strip mixture will be evaluated at the contract unit price according to the following."

Revise Article 406.14(a) of the Standard Specifications to read:

"(a) If the HMA placed during the initial test strip is determined to be acceptable the mixture will be paid for at the contract unit price."

Revise Article 406.14(b) of the Standard Specifications to read:

"(b) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was not produced within 2.0 to 6.0 percent air voids or within the individual control limits of the JMF according to the Department's test results, the mixture will not be paid for and shall be removed at the Contractor's expense. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF."

Revise Article 406.14(c) of the Standard Specifications to read:

"(c) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF according to the Department's test results, the mixture shall be removed. Removal will be paid according to Article 109.04. This initial mixture will be paid for at the contract unit price. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF."

Delete Article 406.14(d) of the Standard Specifications.

Delete Article 406.14(e) of the Standard Specifications.

Delete the last sentence of Article 407.06(c) of the Standard Specifications.

Revise Note 2. of Article 442.02 of the Standard Specifications to read:

"Note 2. The mixture composition of the HMA used shall be IL-19.0 binder, designed with the same Ndesign as that specified for the mainline pavement."

Delete the second paragraph of Article 482.02 of the Standard Specifications.

Revise the first sentence of the sixth paragraph of Article 482.05 of the Standard Specifications to read:

"When the mainline HMA binder and surface course mixture option is used on resurfacing projects, shoulder resurfacing widths of 6 ft (1.8 m) or less may be placed simultaneously with the adjacent traffic lane for both the binder and surface courses."

Revise the second sentence of the fourth paragraph of Article 601.04 of the Standard Specifications to read:

"The top 5 in. (125 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density."

Revise the second sentence of the fifth paragraph of Article 601.04 of the Standard Specifications to read:

"The top 8 in. (200 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density."

Revise Article 1003.03(c) of the Standard Specifications to read:

"(c) Gradation. The fine aggregate gradation for all HMA shall be FA 1, FA 2, FA 20, FA 21, or FA 22. The fine aggregate gradation for SMA shall be FA/FM 20.

For mixture IL-4.75 and surface mixtures with an $N_{design} = 90$, at least 50 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, or steel slag meeting the FA 20 gradation.

For mixture IL-19.0, $N_{design} = 90$ the fine aggregate fraction shall consist of at least 67 percent manufactured sand meeting FA 20 or FA 22 gradation. For mixture IL-19.0, $N_{design} = 50$ or 70 the fine aggregate fraction shall consist of at least 50 percent manufactured sand meeting FA 20 or FA 22 gradation. The manufactured sand shall be stone sand, slag sand, steel slag sand, or combinations thereof.

Gradation FA 1, FA 2, or FA 3 shall be used when required for prime coat aggregate application for HMA."

Remove footnote 3/ from the tables and at the end of the tables in Article 1004.01(c) of the Standard Specifications.

Delete the last sentence of the first paragraph of Article 1004.03(b) of the Standard Specifications.

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

"Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & 3	Cover	CA 14
HMA High ESAL	IL-19.0 IL-9.5	CA 11 ^{1/} CA 16 and/or CA 13 CA 16
HMA Low ESAL	IL-19.0L IL-9.5L Stabilized Subbase or Shoulders	CA 11 ^{1/} CA 16

1/ CA 16 or CA 13 may be blended with the gradations listed."

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

"High ESAL	IL-19.0 binder; IL-9.5 surface
Low ESAL	IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA) ^{1/} ; HMA Shoulders ^{2/}

1/ Uses 19.0L binder mix.

2/ Uses 19.0L for lower lifts and 9.5L for surface lift."

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

"1030.02 Materials. Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate	1004.03
(b) Fine Aggregate	1003.03
(c) RAP Material	1031
(d) Mineral Filler	1011
(e) Hydrated Lime	1012.01
(f) Slaked Quicklime (Note 1)	
(g) Performance Graded Asphalt Binder (Note 2)	1032
(h) Fibers (Note 3)	
(i) Warm Mix Asphalt (WMA) Technologies (Note 4)	

Note 1. Slaked quicklime shall be according to ASTM C 5.

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements.

Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, "Warm Mix Asphalt Technologies".

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

"(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

High ESAL, MIXTURE COMPOSITION (% PASSING) ^{1/}								
Sieve Size	IL-19.0 mm		SMA 12.5 ^{4/}		IL-9.5 mm		IL-4.75 mm	
	min	max	min	max	min	max	min	max
1 1/2 in (37.5 mm)								
1 in. (25 mm)		100						
3/4 in. (19 mm)	90	100		100				
1/2 in. (12.5 mm)	75	89	90	99		100		100
3/8 in. (9.5 mm)			50	85	90	100		100
#4 (4.75 mm)	40	60	20	40	32	69	90	100
#8 (2.36 mm)	26	42	16	24 ^{5/}	32	52 ^{2/}	70	90
#16 (1.18 mm)	15	30			10	32	50	65
#50 (300 μm)	6	15			4	15	15	30
#100 (150 μm)	4	9			3	10	10	18
#200 (75 μm)	3	6	8.0	11.0 ^{3/}	4	6	7	9
Ratio Dust/Asphalt Binder		1.0				1.0		1.0 ^{3/}

1/ Based on percent of total aggregate weight.

2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.

3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.

4/ The maximum percent passing the #635 (20 μ m) sieve shall be \leq 3 percent.

5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above 24 percent."

Delete Article 1030.04(a)(3) of the Standard Specifications.

Delete Article 1030.04(a)(4) of the Standard Specifications.

Revise the table in Article 1030.04(b)(1) of the Standard Specifications to read:

"VOLUMETRIC REQUIREMENTS High ESAL				
Ndesign	Voids in the Mineral Aggregate (VMA), % minimum			Voids Filled with Asphalt Binder (VFA), %
	IL-19.0	IL-9.5	IL-4.75 ^{1/}	
50	13.5	15.0	18.5	65 - 78 ^{2/}
70				65 - 75
90				

1/ Maximum Draindown for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 76-83 percent"

Revise the table in Article 1030.04(b)(2) of the Standard Specifications to read:

"VOLUMETRIC REQUIREMENTS Low ESAL				
Mixture Composition	Design Compactive Effort	Design Air Voids Target %	VMA (Voids in the Mineral Aggregate), % min.	VFA (Voids Filled with Asphalt Binder), %
IL-9.5L	N _{DES} =30	4.0	15.0	65-78
IL-19.0L	N _{DES} =30	4.0	13.5	N/A"

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

"(3) SMA Mixtures.

ESALs (million)	Ndesign	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
≤ 10	50	4.0	16.0	75 – 80
> 10	80	4.0	17.0	75 – 80"

Delete Article 1030.04(b)(4) of the Standard Specifications.

Delete Article 1030.04(b)(5) from the Supplemental Specifications.

Revise the table in Article 1030.05(d)(2)a. of the Standard Specifications to read:

"Parameter	Frequency of Tests		Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture	Low ESAL Mixture	
Aggregate Gradation % passing sieves: 1/2 in. (12.5 mm), No. 4 (4.75 mm), No. 8 (2.36 mm), No. 30 (600 μm) No. 200 (75 μm)	1 washed ignition oven test on the mix per half day of production	Note 3.	Illinois Procedure
Asphalt Binder Content by Ignition Oven Note 1.	1 per half day of production		Illinois-Modified AASHTO T 308
VMA Note 2.	Day's production ≥ 1200 tons: 1 per half day of production	Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)	Illinois-Modified AASHTO R 35

"Parameter	Frequency of Tests		Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture	Low ESAL Mixture	
Air Voids Bulk Specific Gravity of Gyratory Sample Note 4.	Day's production \geq 1200 tons:	1 per half day of production	Illinois-Modified AASHTO T 312
	Day's production < 1200 tons:	1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)	
Maximum Specific Gravity of Mixture	Day's production \geq 1200 tons:	1 per half day of production	Illinois-Modified AASHTO T 209
	Day's production < 1200 tons:	1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)	

Note 1. The Engineer may waive the ignition oven requirement for asphalt binder content if the aggregates to be used are known to have ignition asphalt binder content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the asphalt binder content.

Note 2. The G_{sb} used in the voids in the mineral aggregate (VMA) calculation shall be the same average G_{sb} value listed in the mix design.

Note 3. The Engineer reserves the right to require additional hot bin gradations for batch plants if control problems are evident.

Note 4. The WMA compaction temperature for mixture volumetric testing shall be 270 ± 5 °F (132 ± 3 °C) for quality control testing. The WMA compaction temperature for quality assurance testing will be 270 ± 5 °F (132 ± 3 °C) if the mixture is not allowed to cool to room temperature. If the mixture is allowed to cool to room temperature, it shall be reheated to standard HMA compaction temperatures."

Revise the table in Article 1030.05(d)(2)b. of the Standard Specifications to read:

"Parameter	High ESAL Mixture Low ESAL Mixture
Ratio Dust/Asphalt Binder	0.6 to 1.2
Moisture	0.3 %"

Revise the Article 1030.05(d)(4) of the Supplemental Specifications to read:

"(4) Control Limits. Target values shall be determined by applying adjustment factors to the AJMF where applicable. The target values shall be plotted on the control charts within the following control limits.

CONTROL LIMITS						
Parameter	High ESAL Low ESAL		SMA		IL-4.75	
	Individual Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4
% Passing: ^{1/}						
1/2 in. (12.5 mm)	± 6 %	± 4 %	± 6 %	± 4 %		
3/8 in. (9.5mm)			± 4 %	± 3 %		
No. 4 (4.75 mm)	± 5 %	± 4 %	± 5 %	± 4 %		
No. 8 (2.36 mm)	± 5 %	± 3 %	± 4 %	± 2 %		
No. 16 (1.18 mm)			± 4 %	± 2 %	± 4 %	± 3 %
No. 30 (600 µm)	± 4 %	± 2.5 %	± 4 %	± 2.5 %		
Total Dust Content No. 200 (75 µm)	± 1.5 %	± 1.0 %			± 1.5 %	± 1.0 %
Asphalt Binder Content	± 0.3 %	± 0.2 %	± 0.2 %	± 0.1 %	± 0.3 %	± 0.2 %
Voids	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %
VMA	-0.7 % ^{2/}	-0.5 % ^{2/}	-0.7 % ^{2/}	-0.5 % ^{2/}	-0.7 % ^{2/}	-0.5 % ^{2/}

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement

DENSITY CONTROL LIMITS		
Mixture Composition	Parameter	Individual Test
IL-4.75	Ndesign = 50	93.0 - 97.4 % ^{1/}
IL-9.5	Ndesign = 90	92.0 - 96.0 %
IL-9.5,IL-9.5L	Ndesign < 90	92.5 - 97.4 %
IL-19.0	Ndesign = 90	93.0 - 96.0 %
IL-19.0, IL-19.0L	Ndesign < 90	93.0 ^{2/} - 97.4 %
SMA	Ndesign = 50 & 80	93.5 - 97.4 %

1/ Density shall be determined by cores or by correlated, approved thin lift nuclear gauge.

2/ 92.0 % when placed as first lift on an unimproved subgrade.”

Revise the table in Article 1030.05(d)(5) of the Supplemental Specifications to read:

“CONTROL CHART REQUIREMENTS	High ESAL, Low ESAL, SMA & IL-4.75
Gradation ^{1/3/}	% Passing Sieves: 1/2 in. (12.5 mm) ^{2/} No. 4 (4.75 mm) No. 8 (2.36 mm) No. 30 (600 μm)
Total Dust Content ^{1/}	No. 200 (75 μm)
	Asphalt Binder Content
	Bulk Specific Gravity
	Maximum Specific Gravity of Mixture
	Voids
	Density
	VMA

1/ Based on washed ignition oven.

2/ Does not apply to IL-4.75.

3/ SMA also requires the 3/8 in. (9.5 mm) sieve.”

Delete Article 1030.05(d)(6)a.1.(b.) of the Standard Specifications.

Delete Article 1030.06(b) of the Standard Specifications.

Delete Article 1102.01(e) of the Standard Specifications.

HOT-MIX ASPHALT – MIXTURE DESIGN VERIFICATION AND PRODUCTION (BDE)

Effective: November 1, 2013

Revised: November 1, 2014

Description. This special provision provides the requirements for Hamburg Wheel and tensile strength testing for High ESAL, IL-4.75, and Stone Matrix Asphalt (SMA) hot-mix asphalt (HMA) mixes during mix design verification and production. This special provision also provides the plant requirements for hydrated lime addition systems used in the production of High ESAL, IL-4.75, and SMA mixes.

Mix Design Testing. Add the following below the referenced AASHTO standards in Article 1030.04 of the Standard Specifications:

AASHTO T 324 Hamburg Wheel Test

AASHTO T 283 Tensile Strength Test

Add the following to Article 1030.04 of the Standard Specifications:

“(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (Illinois Modified AASHTO T 324) and the Tensile Strength Test (Illinois Modified AASHTO T 283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department’s verification test, the Contractor shall make necessary changes to the mix and provide passing Hamburg Wheel and tensile strength test results from a private lab. The Department will verify the passing results.

All new and renewal mix designs shall meet the following requirements for verification testing.

(1) Hamburg Wheel Test Criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements ^{1/}

PG Grade	Number of Passes
PG 58-xx (or lower)	5,000
PG 64-xx	7,500
PG 70-xx	15,000
PG 76-xx (or higher)	20,000

1/ When produced at temperatures of 275 ± 5 °F (135 ± 3 °C) or less, loose Warm Mix Asphalt shall be oven aged at 270 ± 5 °F (132 ± 3 °C) for two hours prior to gyratory compaction of Hamburg Wheel specimens.

(2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 550 kPa (80 psi) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

Production Testing. Revise Article 1030.06(a) of the Standard Specifications to read:

"(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures".

Before start-up, target values shall be determined by applying gradation correction factors to the JMF when applicable. These correction factors shall be determined from previous experience. The target values, when approved by the Engineer, shall be used to control HMA production. Plant settings and control charts shall be set according to target values.

Before constructing the test strip, target values shall be determined by applying gradation correction factors to the JMF when applicable. After any JMF adjustment, the JMF shall become the Adjusted Job Mix Formula (AJMF). Upon completion of the first acceptable test strip, the JMF shall become the AJMF regardless of whether or not the JMF has been adjusted. If an adjustment/plant change is made, the Engineer may require a new test strip to be constructed. If the HMA placed during the initial test strip is determined to be unacceptable to remain in place by the Engineer, it shall be removed and replaced.

The limitations between the JMF and AJMF are as follows.

Parameter	Adjustment
1/2 in. (12.5 mm)	± 5.0 %
No. 4 (4.75 mm)	± 4.0 %
No. 8 (2.36 mm)	± 3.0 %
No. 30 (600 μ m)	*
No. 200 (75 μ m)	*
Asphalt Binder Content	± 0.3 %

* In no case shall the target for the amount passing be greater than the JMF.

Any adjustments outside the above limitations will require a new mix design.

Mixture sampled to represent the test strip shall include additional material sufficient for the Department to conduct Hamburg Wheel testing according to Illinois Modified AASHTO T324 (approximately 60 lb (27 kg) total).

The Contractor shall immediately cease production upon notification by the Engineer of failing Hamburg Wheel test. All prior produced material may be paved out provided all other mixture criteria is being met. No additional mixture shall be produced until the Engineer receives passing Hamburg Wheel tests.

The Department may conduct additional Hamburg Wheel tests on production material as determined by the Engineer."

Revise the title of Article 1030.06(b) of the Standard Specifications to read:

"(b) Low ESAL Mixtures."

System for Hydrated Lime Addition. Revise the fourth sentence of the third paragraph of Article 1030.04(c) of the Standard Specifications to read:

"The method of application shall be according to Article 1102.01(a)(10)."

Replace the first three sentences of the second paragraph of Article 1102.01(a)(10) of the Standard Specifications to read:

"When hydrated lime is used as the anti-strip additive, a separate bin or tank and feeder system shall be provided to store and accurately proportion the lime onto the aggregate either as a slurry, as dry lime applied to damp aggregates, or as dry lime injected onto the hot aggregates prior to adding the liquid asphalt cement. If the hydrated lime is added either as a slurry or as dry lime on damp aggregates, the lime and aggregates shall be mixed by a power driven pugmill to provide a uniform coating of the lime prior to entering the dryer. If dry hydrated lime is added to the hot dry aggregates in a dryer-drum plant, the lime shall be added in such a manner that the lime will not become entrained into the air stream of the dryer-drum and that thorough dry mixing shall occur prior to the injection point of the liquid asphalt. When a batch plant is used, the hydrated lime shall be added to the mixture in the weigh hopper or as approved by the Engineer."

Basis of Payment. Replace the seventh paragraph of Article 406.14 of the Standard Specifications with the following:

"For mixes designed and verified under the Hamburg Wheel criteria, the cost of furnishing and introducing anti-stripping additives in the HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

If an anti-stripping additive is required for any other HMA mix, the cost of the additive will be paid for according to Article 109.04. The cost incurred in introducing the additive into the

HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

No additional compensation will be awarded to the Contractor because of reduced production rates associated with the addition of the anti-stripping additive."

80323

HOT MIX ASPHALT – PRIME COAT (BDE)

Effective: November 1, 2014

Revise Note 1 of Article 406.02 of the Standard Specifications to read:

“Note 1. The bituminous material used for prime coat shall be one of the types listed in the following table.

When emulsified asphalts are used, any dilution with water shall be performed by the emulsion producer. The emulsified asphalt shall be thoroughly agitated within 24 hours of application and show no separation of water and emulsion.

Application	Bituminous Material Types
Prime Coat on Brick, Concrete, or HMA Bases	SS-1, SS-1h, SS-1hP, SS-1vh, RS-1, RS-2, CSS-1, CSS-1h, CSS-1hp, CRS-1, CRS-2, HFE-90, RC-70
Prime Coat on Aggregate Bases	MC-30, PEP”

Add the following to Article 406.03 of the Standard Specifications.

- “(i) Vacuum Sweeper 1101.19
- “(j) Spray Paver 1102.06”

Revise Article 406.05(b) of the Standard Specifications to read:

“(b) Prime Coat. The bituminous material shall be prepared according to Article 403.05 and applied according to Article 403.10. The use of RC-70 shall be limited to air temperatures less than 60 °F (15 °C).

- (1) Brick, Concrete or HMA Bases. The base shall be cleaned of all dust, debris and any substance that will prevent the prime coat from adhering to the base. Cleaning shall be accomplished by sweeping to remove all large particles and air blasting to remove dust. As an alternative to air blasting, a vacuum sweeper may be used to accomplish the dust removal. The base shall be free of standing water at the time of application. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface as specified in the following table.

Type of Surface to be Primed	Residual Asphalt Rate lb/sq ft (kg/sq m)
Milled HMA, Aged Non-Milled HMA, Milled Concrete, Non-Milled Concrete & Tined Concrete	0.05 (0.244)
Fog Coat between HMA Lifts, IL-4.75 & Brick	0.025 (0.122)

The bituminous material for the prime coat shall be placed one lane at a time. If a spray paver is not used, the primed lane shall remain closed until the prime coat is

fully cured and does not pickup under traffic. When placing prime coat through an intersection where it is not possible to keep the lane closed, the prime coat may be covered immediately following its application with fine aggregate mechanically spread at a uniform rate of 2 to 4 lb/sq yd (1 to 2 kg/sq m).

- (2) Aggregate Bases. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface of 0.25 lb/sq ft \pm 0.01 (1.21 kg/sq m \pm 0.05).

The prime coat shall be permitted to cure until the penetration has been approved by the Engineer, but at no time shall the curing period be less than 24 hours for MC-30 or four hours for PEP. Pools of prime occurring in the depressions shall be broomed or squeegeed over the surrounding surface the same day the prime coat is applied.

The base shall be primed 1/2 width at a time. The prime coat on the second half/width shall not be applied until the prime coat on the first half/width has cured so that it will not pickup under traffic.

The residual asphalt rate will be verified a minimum of once per type of surface to be primed as specified herein for which at least 2000 tons (1800 metric tons) of HMA will be placed. The test will be according to the "Determination of Residual Asphalt in Prime and Tack Coat Materials" test procedure.

Prime coat shall be fully cured prior to placement of HMA to prevent pickup by haul trucks or paving equipment. If pickup occurs, paving shall cease in order to provide additional cure time, and all areas where the pickup occurred shall be repaired.

If after five days, loss of prime coat is evident prior to covering with HMA, additional prime coat shall be placed as determined by the Engineer at no additional cost to the Department."

Revise the last sentence of the first paragraph of Article 406.13(b) of the Standard Specifications to read:

"Water added to emulsified asphalt, as allowed in Article 406.02, will not be included in the quantities measured for payment."

Revise the second paragraph of Article 406.13(b) of the Standard Specifications to read:

"Aggregate for covering prime coat will not be measured for payment."

Revise the first paragraph of Article 406.14 of the Standard Specifications to read:

"406.14 Basis of Payment. Prime Coat will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT), or POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)."

Revise Article 407.02 of the Standard Specifications to read:

“407.02 Materials. Materials shall be according to Article 406.02, except as follows.

Item	Article/Section
(a) Packaged Rapid Hardening Mortar or Concrete	1018”

Revise Article 407.06(b) of the Standard Specifications to read:

“(b) A bituminous prime coat shall be applied between each lift of HMA according to Article 406.05(b).”

Delete the second paragraph of Article 407.12 of the Standard Specifications.

Revise the first paragraph of Article 408.04 of the Standard Specifications to read:

“408.04 Method of Measurement. Bituminous priming material will be measured for payment according to Article 406.13.”

Revise the first paragraph of Article 408.05 of the Standard Specifications to read:

“408.05 Basis of Payment. This work will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT) or POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) and at the contract unit price per ton (metric ton) for INCIDENTAL HOT-MIX ASPHALT SURFACING.”

Revise Article 1032.02 of the Standard Specifications to read:

“1032.02 Measurement. Asphalt binders, emulsified asphalts, rapid curing liquid asphalt, medium curing liquid asphalts, slow curing liquid asphalts, asphalt fillers, and road oils will be measured by weight.

A weight ticket for each truck load shall be furnished to the inspector. The truck shall be weighed at a location approved by the Engineer. The ticket shall show the weight of the empty truck (the truck being weighed each time before it is loaded), the weight of the loaded truck, and the net weight of the bituminous material.

When an emulsion or cutback is used for prime coat, the percentage of asphalt residue of the actual certified product shall be shown on the producer’s bill of lading or attached certificate of analysis. If the producer adds extra water to an emulsion at the request of the purchaser, the amount of water shall also be shown on the bill of lading.

Payment will not be made for bituminous materials in excess of 105 percent of the amount specified by the Engineer.”

Add the following to the table in Article 1032.04 of the Standard Specifications.

"SS-1vh	160-180	70-80
RS-1, CRS-1	75-130	25-55"

Add the following to Article 1032.06 of the Standard Specifications.

"(g) Non Tracking Emulsified Asphalt SS-1vh shall be according to the following.

Requirements for SS-1vh			
Test		SPEC	AASHTO Test Method
Saybolt Viscosity @ 25C,	SFS	20-200	T 72
Storage Stability, 24hr.,	%	1 max.	T 59
Residue by Evaporation,	%	50 min.	T 59
Sieve Test,	%	0.3 max.	T 59
Tests on Residue from Evaporation			
Penetration @25°C, 100g., 5 sec., dmm		20 max.	T 49
Softening Point,	°C	65 min.	T 53
Solubility,	%	97.5 min.	T 44
Orig. DSR @ 82°C,	kPa	1.00 min.	T 315"

Revise the last table in Article 1032.06(f)(2)d. of the Standard Specifications to read:

"Grade	Use
SS-1, SS-1h, RS-1, RS-2, CSS-1, CRS-1, CRS-2, CSS-1h, HFE-90, SS-1hP, CSS-1hP, SS-1vh	Prime or fog seal
PEP	Bituminous surface treatment prime
RS-2, HFE-90, HFE-150, HFE- 300, CRSP, HFP, CRS-2, HFRS-2	Bituminous surface treatment
CSS-1h Latex Modified	Microsurfacing"

Add the following to Article 1101 of the Standard Specifications.

"1101.19 Vacuum Sweeper. The vacuum sweeper shall have a minimum sweeping path of 52 in. (1.3 m) and a minimum blower rating of 20,000 cu ft per minute (566 cu m per minute)."

Add the following to Article 1102 of the Standard Specifications:

"1102.06 Spray Paver. The spreading and finishing machine shall be capable of spraying a rapid setting emulsion tack coat, paving a layer of HMA, and providing a smooth HMA mat in one pass. The HMA shall be spread over the tack coat in less than five seconds after the

application of the tack coat during normal paving speeds. No wheel or other part of the paving machine shall come into contact with the tack coat before the HMA is applied. In addition to meeting the requirements of Article 1102.03, the spray paver shall also meet the requirements of Article 1102.05 for the tank, heating system, pump, thermometer, tachometer or synchronizer, and calibration. The spray bar shall be equipped with properly sized and spaced nozzles to apply a uniform application of tack coat at the specified rate for the full width of the mat being placed."

80348

LRFD STORM SEWER BURIAL TABLES (BDE)

Effective: November 1, 2013

Revised: April 1, 2015

Revise Article 550.02 of the Standard Specifications to read as follows:

Item	Article Section
(a) Clay Sewer Pipe	1040.02
(b) Extra Strength Clay Pipe	1040.02
(c) Concrete Sewer, Storm Drain, and Culvert Pipe	1042
(d) Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe	1042
(e) Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe (Note 1)	1042
(f) Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe (Note 1)	1042
(g) Polyvinyl Chloride (PVC) Pipe	1040.03
(h) Corrugated Polyvinyl Chloride (PVC) Pipe with a Smooth Interior	1040.03
(i) Corrugated Polypropylene (CPP) Pipe with Smooth Interior	1040.08
(j) Rubber Gaskets and Preformed Flexible Joint Sealants for Concrete Pipe	1056
(k) Mastic Joint Sealer for Pipe	1055
(l) External Sealing Band	1057
(m) Fine Aggregate (Note 2)	1003.04
(n) Coarse Aggregate (Note 3)	1004.05
(o) Reinforcement Bars and Welded Wire Fabric	1006.10
(p) Handling Hole Plugs	1042.16
(q) Polyethylene (PE) Pipe with a Smooth Interior	1040.04
(r) Corrugated Polyethylene (PE) Pipe with a Smooth Interior	1040.04

Note 1. The class of elliptical and arch pipe used for various storm sewer sizes and heights of fill shall conform to the requirements for circular pipe.

Note 2. The fine aggregate shall be moist.

Note 3. The coarse aggregate shall be wet."

Revise the table for permitted materials in Article 550.03 of the Standard Specifications as follows:

"Class	Materials
A	Rigid Pipes: Clay Sewer Pipe Extra Strength Clay Pipe Concrete Sewer, Storm Drain, and Culvert Pipe Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
B	Rigid Pipes: Clay Sewer Pipe Extra Strength Clay Pipe Concrete Sewer, Storm Drain, and Culvert Pipe Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe Flexible Pipes: Polyvinyl Chloride (PVC) Pipe Corrugated Polyvinyl Chloride Pipe (PVC) with a Smooth Interior Polyethylene (PE) Pipe with a Smooth Interior Corrugated Polyethylene (PE) Pipe with a Smooth Interior Corrugated Polypropylene (CPP) Pipe with a Smooth Interior"

Replace the storm sewers tables in Article 550.03 of the Standard Specifications with the following:

STORM SEWERS
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED
FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

Nominal Diameter In.	Type 1											Type 2					
	Fill Height: 3' and less With 1' minimum cover											Fill Height: Greater than 3' not exceeding 10'					
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	
10	NA	3	X	X	X	X	X	NA	1	*X	X	X	X	X	NA	NA	
12	IV	NA	X	X	X	X	X	II	1	*X	X	X	X	X	X	X	
15	IV	NA	NA	X	NA	NA	X	II	1	*X	X	X	X	NA	X	X	
18	IV	NA	NA	X	X	X	X	II	2	X	X	X	X	X	X	X	
21	III	NA	NA	X	X	NA	X	II	2	X	X	X	X	NA	NA	NA	
24	III	NA	NA	X	X	X	X	II	2	X	X	X	X	X	X	X	
27	III	NA	NA	NA	NA	NA	NA	II	3	X	NA	NA	NA	NA	NA	NA	
30	IV	NA	NA	X	X	X	X	II	3	X	X	X	X	X	X	X	
33	III	NA	NA	NA	NA	NA	NA	II	NA	X	NA	NA	NA	NA	NA	NA	
36	III	NA	NA	NA	X	X	X	II	NA	X	X	X	X	X	X	X	
42	III	NA	X	X	X	X	X	II	NA	X	X	NA	NA	X	NA	NA	
48	II	NA	X	X	X	X	X	II	NA	X	X	NA	NA	X	NA	NA	
54	II	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA	NA	
60	II	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA	NA	
66	II	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA	NA	
72	II	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA	NA	
78	II	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA	NA	
84	II	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA	NA	
90	II	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA	NA	
96	II	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA	NA	
102	II	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA	NA	
108	II	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA	NA	

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
 CSP Concrete Sewer, Storm drain, and Culvert Pipe
 PVC Polyvinyl Chloride Pipe
 CPVC Corrugated Polyvinyl Chloride Pipe
 ESCP Extra Strength Clay Pipe
 PE Polyethylene Pipe with a Smooth Interior
 CPE Corrugated Polyethylene Pipe with a Smooth Interior
 CPP Corrugated Polypropylene pipe with a Smooth Interior
 X This material may be used for the given pipe diameter and fill height.
 NA This material is Not Acceptable for the given pipe diameter and fill height.
 * May also use Standard Strength Clay Pipe

STORM SEWERS (Metric)															
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE															
Nominal Diameter in.	Type 1							Type 2							
	Fill Height: 1 m and less With 300 mm minimum cover							Fill Height: Greater than 1 m not exceeding 3 m							
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	GSP	ESCP	PVC	CPVC	PE	CPE
250	NA	3	X	X	X	X	X	NA	1	*X	X	X	X	X	NA
300	IV	NA	X	X	X	NA	X	X	1	*X	X	X	X	X	X
375	IV	NA	NA	X	X	NA	X	X	1	*X	X	X	X	NA	X
450	IV	NA	NA	X	X	X	X	X	2	X	X	X	X	X	X
525	III	NA	NA	X	X	NA	NA	NA	2	X	X	X	X	NA	NA
600	III	NA	NA	X	X	X	X	X	2	X	X	X	X	X	X
675	III	NA	NA	NA	NA	NA	NA	NA	3	X	NA	NA	NA	NA	NA
750	IV	NA	NA	X	X	X	X	X	3	X	X	X	X	X	X
825	III	NA	NA	NA	NA	NA	NA	NA	NA	X	NA	NA	NA	NA	NA
900	III	NA	NA	NA	X	X	X	X	NA	X	X	X	X	X	X
1050	II	NA	X	X	NA	X	X	NA	NA	X	X	NA	NA	NA	NA
1200	II	NA	X	X	NA	X	X	NA	NA	X	X	NA	NA	NA	NA
1350	II	NA	NA	NA	NA	NA	NA	NA	NA	X	NA	NA	NA	NA	NA
1500	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1650	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1800	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1950	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2100	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2250	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2400	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2550	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2700	II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
 CSP Concrete Sewer, Storm drain, and Culvert Pipe
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 ESCP Extra Strength Clay Pipe
 PE Polyethylene Pipe with a Smooth Interior
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 CPP Corrugated Polypropylene pipe with a Smooth Interior
 X This material may be used for the given pipe diameter and fill height.
 NA This material is Not Acceptable for the given pipe diameter and fill height.
 * May also use Standard Strength Clay Pipe

STORM SEWERS															
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE															
Nominal Diameter in.	Type 4														
	Type 3						Type 4								
	Fill Height: Greater than 10' not exceeding 15'						Fill Height: Greater than 15' not exceeding 20'								
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPP
10	NA	2	X	X	X	X	X	NA	NA	3	X	X	X	X	NA
12	III	2	X	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
15	III	3	X	X	X	NA	NA	X	IV	NA	NA	X	X	NA	X
18	III	NA	X	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
21	III	NA	NA	X	X	NA	NA	NA	IV	NA	NA	X	X	NA	NA
24	III	NA	NA	X	X	X	NA	NA	IV	NA	NA	X	X	X	NA
27	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
30	III	NA	NA	NA	X	X	NA	X	IV	NA	NA	X	X	X	NA
33	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
36	III	NA	NA	NA	X	X	NA	NA	IV	NA	NA	X	X	X	NA
42	III	NA	NA	NA	X	X	NA	NA	IV	NA	NA	X	X	X	NA
48	III	NA	NA	NA	X	X	NA	NA	IV	NA	NA	X	X	X	NA
54	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
60	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
66	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
72	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
78	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
84	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
90	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
96	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
102	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
108	III	NA	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
	1360	NA	NA	NA	NA	NA	NA	NA	1680	NA	NA	NA	NA	NA	NA
									1690	NA	NA	NA	NA	NA	NA
									1700	NA	NA	NA	NA	NA	NA
									1710	NA	NA	NA	NA	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
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 CPVC Corrugated Polyvinyl Chloride Pipe
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 PE Polyethylene Pipe with a Smooth Interior
 CPE Corrugated Polyethylene Pipe with a Smooth Interior
 CPP Corrugated Polypropylene pipe with a Smooth Interior
 X This material may be used for the given pipe diameter and fill height.
 NA This material is Not Acceptable for the given pipe diameter and fill height.
 * May also use Standard Strength Clay Pipe
 Note RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.

STORM SEWERS (metric)														
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE														
Nominal Diameter in.	Type 3										Type 4			
	Fill Height: Greater than 3 m not exceeding 4.5 m										Fill Height: Greater than 4.5 m not exceeding 6 m			
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE
250	NA	2	X	X	X	X	NA	NA	3	X	X	X	X	NA
300	III	2	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
375	III	3	X	X	NA	NA	X	IV	NA	NA	X	X	NA	X
450	III	NA	X	X	X	NA	X	IV	NA	NA	X	X	X	NA
525	III	NA	NA	X	NA	NA	NA	IV	NA	NA	X	X	NA	NA
600	III	NA	NA	X	X	NA	NA	IV	NA	NA	X	X	X	NA
675	III	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
750	III	NA	NA	X	X	NA	X	IV	NA	NA	X	X	X	NA
825	III	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
900	III	NA	NA	NA	X	X	NA	IV	NA	NA	X	X	X	NA
1050	III	NA	NA	NA	NA	X	NA	IV	NA	NA	X	NA	X	NA
1200	III	NA	NA	NA	X	NA	NA	IV	NA	NA	X	NA	X	NA
1350	III	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
1500	III	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
1650	III	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
1800	III	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
1950	III	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
2100	III	NA	NA	NA	NA	NA	NA	IV	NA	NA	NA	NA	NA	NA
2250	III	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA	NA	NA
2400	III	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA	NA	NA
2550	III	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA	NA	NA
2700	70	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
 CSP Concrete Sewer, Storm drain, and Culvert Pipe
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 CPVC Corrugated Polyvinyl Chloride Pipe
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 PE Polyethylene Pipe with a Smooth Interior
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 CPP Corrugated Polypropylene pipe with a Smooth Interior
 X This material may be used for the given pipe diameter and fill height.
 NA This material is Not Acceptable for the given pipe diameter and fill height.
 * May also use Standard Strength Clay Pipe
 Note RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the metric D-load to produce a 25.4 micro-meter crack.

STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE									
Nominal Diameter in.	Type 5			Type 6			Type 7		
	Fill Height: Greater than 20' not exceeding 25'			Fill Height: Greater than 25' not exceeding 30'			Fill Height: Greater than 30' not exceeding 35'		
	RCCP	PVC	CPVC	RCCP	PVC	CPVC	RCCP	CPVC	CPVC
10	NA	X	X	NA	X	X	NA	X	X
12	IV	X	X	V	X	X	V	V	X
15	IV	X	X	V	X	X	V	V	X
18	IV	X	X	V	X	X	V	V	X
21	IV	X	X	V	X	X	V	V	X
24	IV	X	X	V	X	X	V	V	X
27	IV	NA	NA	V	NA	NA	V	NA	NA
30	IV	X	X	V	X	X	V	X	X
33	IV	NA	NA	V	NA	NA	V	NA	NA
36	IV	X	X	V	X	X	V	X	X
42	IV	X	NA	V	X	NA	V	NA	NA
48	IV	X	NA	V	X	NA	V	NA	NA
54	IV	NA	NA	V	NA	NA	V	NA	NA
60	IV	NA	NA	V	NA	NA	V	NA	NA
66	IV	NA	NA	V	NA	NA	V	NA	NA
72	V	NA	NA	V	NA	NA	V	NA	NA
78	2020	NA	NA	2370	NA	NA	2730	NA	NA
84	2020	NA	NA	2380	NA	NA	2740	NA	NA
90	2030	NA	NA	2390	NA	NA	2750	NA	NA
96	2040	NA	NA	2400	NA	NA	2750	NA	NA
102	2050	NA	NA	2410	NA	NA	2760	NA	NA
108	2060	NA	NA	2410	NA	NA	2770	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
 PVC Polyvinyl Chloride Pipe
 CPVC Corrugated Polyvinyl Chloride Pipe
 ESCP Extra Strength Clay Pipe
 X This material may be used for the given pipe diameter and fill height.
 NA This material is Not Acceptable for the given pipe diameter and fill height.
 Note RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.

STORM SEWERS (metric)									
KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE									
Nominal Diameter in.	Type 5			Type 6			Type 7		
	Fill Height: Greater than 20' not exceeding 25'			Fill Height: Greater than 25' not exceeding 30'			Fill Height: Greater than 30' not exceeding 35'		
	RCCP	PVC	CPVC	RCCP	PVC	CPVC	RCCP	RCCP	CPVC
250	NA	X	X	NA	X	X	NA	NA	X
300	IV	X	X	V	X	X	V	V	X
375	IV	X	X	V	X	X	V	V	X
450	IV	X	X	V	X	X	V	V	X
525	IV	X	X	V	X	X	V	V	X
600	IV	X	X	V	X	X	V	V	X
675	IV	NA	NA	V	NA	NA	V	V	NA
750	IV	X	X	V	X	X	V	V	X
825	IV	NA	NA	V	NA	NA	V	V	NA
900	IV	X	X	V	X	X	V	V	X
1050	IV	X	NA	V	X	NA	V	V	NA
1200	IV	X	NA	V	X	NA	V	V	NA
1350	IV	NA	NA	V	NA	NA	V	V	NA
1500	IV	NA	NA	V	NA	NA	V	V	NA
1650	IV	NA	NA	V	NA	NA	V	V	NA
1800	V	NA	NA	V	NA	NA	V	V	NA
1950	100	NA	NA	110	NA	NA	130	130	NA
2100	100	NA	NA	110	NA	NA	130	130	NA
2250	100	NA	NA	110	NA	NA	130	130	NA
2400	100	NA	NA	120	NA	NA	130	130	NA
2550	100	NA	NA	120	NA	NA	130	130	NA
2700	100	NA	NA	120	NA	NA	130	130	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe

PVC Polyvinyl Chloride Pipe

CPVC Corrugated Polyvinyl Chloride Pipe

ESCP Extra Strength Clay Pipe

X This material may be used for the given pipe diameter and fill height.

NA This material is Not Acceptable for the given pipe diameter and fill height.

Note RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the metric D-load to produce a 25.4 micro-meter crack.

Revise the sixth paragraph of Article 550.06 of the Standard Specifications to read:

“PVC, PE and CPP pipes shall be joined according to the manufacturer’s specifications.”

Revise the first and second paragraphs of Article 550.08 of the Standard Specifications to read:

“550.08 Deflection Testing for Storm Sewers. All PVC, PE, and CPP storm sewers shall be tested for deflection not less than 30 days after the pipe is installed and the backfill compacted. The testing shall be performed in the presence of the Engineer.

For PVC, PE, and CPP storm sewers with diameters 24 in. (600 mm) or smaller, a mandrel drag shall be used for deflection testing. For PVC, PE, and CPP storm sewers with diameters over 24 in. (600 mm), deflection measurements other than by a mandrel shall be used.”

Revise the fifth paragraph of Article 550.08 to read as follows.

“The outside diameter of the mandrel shall be 95 percent of the base inside diameter. For all PVC pipe the base inside diameter shall be defined using ASTM D 3034 methodology. For all PE and CPP pipe, the base inside diameter shall be defined as the average inside diameter based on the minimum and maximum tolerances specified in the corresponding ASTM or AASHTO material specifications.”

Revise the first paragraph of Article 1040.03 of the Standard Specifications to read:

“1040.03 Polyvinyl Chloride (PVC) Pipe. Acceptance testing of PVC pipe and fittings shall be accomplished during the same construction season in which they are installed. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties. The pipe shall meet the following additional requirements.”

Delete Articles 1040.03(e) and (f) of the Standard Specifications.

Revise Articles 1040.04(c) and (d) of the Standard Specifications to read:

“(c) PE Profile Wall Pipe for Insertion Lining. The pipe shall be according to ASTM F 894. When used for insertion lining of pipe culverts, the pipe liner shall have a minimum pipe stiffness of 46 psi (317 kPa) at five percent deflection for nominal inside diameters of 42 in. (1050 mm) or less. For nominal inside diameters of greater than 42 in. (1050 mm), the pipe liner shall have a minimum pipe stiffness of 32.5 psi (225 kPa) at five percent deflection. All sizes shall have wall construction that presents essentially smooth internal and external surfaces.

(d) PE Pipe with a Smooth Interior. The pipe shall be according to ASTM F 714 (DR 32.5) with a minimum cell classification of PE 335434 as defined in ASTM D 3350. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written

certification that the material meets those properties and the resin used to manufacture the pipe meets or exceeds the minimum cell classification requirements.”

Add the following to Section 1040 of the Standard Specifications:

“1040.08 Polypropylene (PP) Pipe. Storage and handling shall be according to the manufacturer's recommendations, except in no case shall the pipe be exposed to direct sunlight for more than six months. Acceptance testing of the pipe shall be accomplished during the same construction season in which it is installed. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties. The pipe shall meet the following additional requirements.

- (a) Corrugated PP Pipe with a Smooth Interior. The pipe shall be according to AAHSTO M 330 (nominal size – 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type S or D.
- (b) Perforated Corrugated PP Pipe with A Smooth Interior. The pipe shall be according to AASHTO M 330 (nominal size – 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type SP. In addition, the top centerline of the pipe shall be marked so that it is readily visible from the top of the trench before backfilling, and the upper ends of the slot perforations shall be a minimum of ten degrees below the horizontal.”

80325

MECHANICAL SIDE TIE BAR INSERTER (BDE)

Effective: August 1, 2014

Add the following to Article 420.03 of the Standard Specifications:

“(k) Mechanical Side Tie Bar Inserters 1103.18”

Revise Article 420.05(b) of the Standard Specifications to read:

“(b) Longitudinal Construction Joint. The tie bars shall be installed using one of the following methods.

- (1) Preformed or Drilled Holes. The tie bars shall be installed with an approved nonshrink grout or chemical adhesive providing a minimum pull-out strength as follows.

Bar Size	Minimum Pull-Out Strength
No. 6 (No. 19)	11,000 lb (49 kN)
No. 8 (No. 25)	19,750 lb (88 kN)

Holes shall be blown clean and dry prior to placing the grout or adhesive. If compressed air is used, the pneumatic tool lubricator shall be bypassed and a filter installed on the discharge valve to keep water and oil out of the lines. The installation shall be with methods and tools conforming to the grout or adhesive manufacturer's recommendations.

The Contractor shall load test five percent of the first 500 tie bars installed. No further installation will be allowed until the initial five percent testing has been completed and approval to continue installation has been given by the Engineer. Testing will be required for 0.5 percent of the bars installed after the initial 500. For each bar that fails to pass the minimum requirements, two more bars selected by the Engineer shall be tested. Each bar that fails to meet the minimum load requirement shall be reinstalled and retested. The equipment and method used for testing shall meet the requirements of ASTM E 488. All tests shall be performed within 72 hours of installation. The tie bars shall be installed and approved before concrete is placed in the adjacent lane.”

- (2) Inserted. The tie bars shall be installed with the use of a mechanical side tie bar inserter. The tie bars shall be No. 6 (No. 19) bars, 30 inches (750 mm) long, placed mid-depth on 24 in. (600 mm) centers along the joint edge. The inserter shall insert the tie bars with vibration after the concrete has been struck off and consolidated without deformation of the slab. The inserter shall remain stationary relative to the pavement when inserting tie bars, while the formless paver continues to move in the direction of paving.

A void greater than 1/8 in. (3 mm) at any location around the tie bar shall require immediate adjustment of the paving operation. A void greater than 1/2 in. (13 mm) shall be repaired with a nonshrink grout or chemical adhesive after the concrete has hardened. If at the end of the day of paving more than 20 percent of the tie bars show a void larger than 1/8 in. (3 mm) at any point around the bar, the use of the side tie bar inserter shall be discontinued.

(3) Formed in Place. The tie bar shall be formed in place as shown on the plans.

The sealant reservoir shall be formed either by sawing after the concrete has set according to Article 420.05(a) or by hand tools when the concrete is in a plastic state."

Add the following to Section 1103 of the Standard Specifications:

"1103.18 Mechanical Side Bar Inserters. The mechanical side tie bar inserter shall be self-contained and supported on the formless paver with the ability to move independently from the formless paver. The insertion apparatus shall vibrate within a frequency of 2000 to 6000 vpm. A vibrating reed tachometer, hand type, shall be provided according to Article 1103.12."

80342

PRECAST CONCRETE HANDHOLE (BDE)

Effective: August 1, 2014

Revise the third paragraph of Article 814.03 of the Standard Specifications to read:

"Handholes shall be constructed as shown on the plans and shall be cast-in-place, composite concrete, or precast units. Heavy duty handholes shall be either cast-in-place or precast units."

Add the following to Article 814.03 of the Standard Specifications:

"(c) Precast Concrete. Precast concrete handholes shall be fabricated according to Article 1042.17. Where a handhole is contiguous to a sidewalk, preformed joint filler of 1/2 inch (13 mm) thickness shall be placed between the handhole and the sidewalk."

Add the following to Section 1042 of the Standard Specifications:

"**1042.17 Precast Concrete Handholes.** Precast concrete handholes shall be according to Articles 1042.03(a)(c)(d)(e)."

80343

RETROREFLECTIVE SHEETING FOR HIGHWAY SIGNS (BDE)

Effective: November 1, 2014

Revise the first sentence of the first paragraph of Article 1091.03(a)(3) of the Standard Specifications to read:

“When tested according to ASTM E 810, with averaging, the sheeting shall have a minimum coefficient of retroreflection as show in the following tables.”

Replace the Tables for Type AA sheeting, Type AP sheeting, Type AZ sheeting and Type ZZ sheeting in Article 1091.03(a)(3) with the following.

Type AA Sheeting
Minimum Coefficient of Retroreflection
Candelas/foot candle/sq ft (candelas/lux/sq m) of material

Type AA (Average of 0 and 90 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Red	Green	Blue	FO
0.2	-4	800	600	120	80	40	200
0.2	+30	400	300	60	35	20	100
0.5	-4	200	150	30	20	10	75
0.5	+30	100	75	15	10	5	35

Type AA (45 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	Yellow	FO
0.2	-4	500	165
0.2	+30	115	40
0.5	-4	140	65
0.5	+30	60	30

Type AP Sheeting
Minimum Coefficient of Retroreflection
Candelas/foot candle/sq ft (candelas/lux/sq m) of material

Type AP (Average of 0 and 90 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Red	Green	Blue	Brown	FO
0.2	-4	500	380	75	55	35	25	150
0.2	+30	180	135	30	20	15	10	55
0.5	-4	300	225	50	30	20	15	90
0.5	+30	90	70	15	10	7.5	5	30

Type AZ Sheeting
Minimum Coefficient of Retroreflection
Candelas/foot candle/sq ft (candelas/lux/sq m) of material

Type AZ (Average of 0 and 90 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Red	Green	Blue	FYG	FY
0.2	-4	375	280	75	45	25	300	230
0.2	+30	235	170	40	25	15	190	150
0.5	-4	245	180	50	30	20	200	155
0.5	+30	135	100	25	15	10	100	75
1.0	-4	50	37.5	8.5	5	2	45	25
1.0	+30	22.5	20	5	3	1	25	12.5

Type ZZ Sheeting
Minimum Coefficient of Retroreflection
Candelas/foot candle/sq ft (candelas/lux/sq m) of material

Type ZZ (Average of 0 and 90 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Red	Green	Blue	FYG	FY	FO
0.2	-4	570	425	90	60	30	460	340	170
0.2	+30	190	140	35	20	10	150	110	65
0.5	-4	400	300	60	40	20	320	240	120
0.5	+30	130	95	20	15	7	100	80	45
1.0	-4	115	90	17	12	5	95	70	35
1.0	+30	45	35	7	5	2	35	25	15

REINFORCEMENT BARS (BDE)

Effective: November 1, 2013

Revise the first and second paragraphs of Article 508.05 of the Standard Specifications to read:

“508.05 Placing and Securing. All reinforcement bars shall be placed and tied securely at the locations and in the configuration shown on the plans prior to the placement of concrete. Manual welding of reinforcement may only be permitted on precast concrete products as indicated in the current Bureau of Materials and Physical Research Policy Memorandum “Quality Control / Quality Assurance Program for Precast Concrete Products”, and for precast prestressed concrete products as indicated in the Department’s current “Manual for Fabrication of Precast Prestressed Concrete Products”. Reinforcement bars shall not be placed by sticking or floating into place or immediately after placement of the concrete.

Bars shall be tied at all intersections, except where the center to center dimension is less than 1 ft (300 mm) in each direction, in which case alternate intersections shall be tied. Molded plastic clips may be used in lieu of wire to secure bar intersections, but shall not be permitted in horizontal bar mats subject to construction foot traffic or to secure longitudinal bar laps. Plastic clips shall adequately secure the reinforcement bars, and shall permit the concrete to flow through and fully encase the reinforcement. Plastic clips may be recycled plastic, and shall meet the approval of the Engineer. The number of ties as specified shall be doubled for lap splices at the stage construction line of concrete bridge decks when traffic is allowed on the first completed stage during the pouring of the second stage.”

Revise the fifth paragraph of Article 508.05 of the Standard Specifications to read:

“Supports for reinforcement in bridge decks shall be metal. For all other concrete construction the supports shall be metal or plastic. Metal bar supports shall be made of cold-drawn wire, or other approved material and shall be either epoxy coated, galvanized or plastic tipped. When the reinforcement bars are epoxy coated, the metal supports shall be epoxy coated. Plastic supports may be recycled plastic. Supports shall be provided in sufficient number and spaced to provide the required clearances. Supports shall adequately support the reinforcement bars, and shall permit the concrete to flow through and fully encase the reinforcement. The legs of supports shall be spaced to allow an opening that is a minimum 1.33 times the nominal maximum aggregate size used in the concrete. Nominal maximum aggregate size is defined as the largest sieve which retains any of the aggregate sample particles. All supports shall meet the approval of the Engineer.”

Revise the first sentence of the eighth paragraph of Article 508.05 of the Standard Specifications to read:

“Epoxy coated reinforcement bars shall be tied with plastic coated wire, epoxy coated wire, or molded plastic clips where allowed.”

Add the following sentence to the end of the first paragraph of Article 508.06(c) of the Standard Specifications:

"In addition, the total slip of the bars within the splice sleeve of the connector after loading in tension to 30 ksi (207 MPa) and relaxing to 3 ksi (20.7 MPa) shall not exceed 0.01 in. (254 microns)."

Revise Article 1042.03(d) of the Standard Specifications to read:

"(d) Reinforcement and Accessories: The concrete cover over all reinforcement shall be within $\pm 1/4$ in. (± 6 mm) of the specified cover.

Welded wire fabric shall be accurately bent and tied in place.

Miscellaneous accessories to be cast into the concrete or for forming holes and recesses shall be carefully located and rigidly held in place by bolts, clamps, or other effective means. If paper tubes are used for vertical dowel holes, or other vertical holes which require grouting, they shall be removed before transportation to the construction site."

80327

WARM MIX ASPHALT (BDE)

Effective: January 1, 2012

Revised: November 1, 2014

Description. This work shall consist of designing, producing and constructing Warm Mix Asphalt (WMA) in lieu of Hot Mix Asphalt (HMA) at the Contractor's option. Work shall be according to Sections 406, 407, 408, 1030, and 1102 of the Standard Specifications, except as modified herein. In addition, any references to HMA in the Standard Specifications, or the special provisions shall be construed to include WMA.

WMA is an asphalt mixture which can be produced at temperatures lower than allowed for HMA utilizing approved WMA technologies. WMA technologies are defined as the use of additives or processes which allow a reduction in the temperatures at which HMA mixes are produced and placed. WMA is produced by the use of additives, a water foaming process, or combination of both. Additives include minerals, chemicals or organics incorporated into the asphalt binder stream in a dedicated delivery system. The process of foaming injects water into the asphalt binder stream, just prior to incorporation of the asphalt binder with the aggregate.

Approved WMA technologies may also be used in HMA provided all the requirements specified herein, with the exception of temperature, are met. However, asphalt mixtures produced at temperatures in excess of 275 °F (135 °C) will not be considered WMA when determining the grade reduction of the virgin asphalt binder grade.

Equipment.

Revise the first paragraph of Article 1102.01 of the Standard Specifications to read:

"1102.01 Hot-Mix Asphalt Plant. The hot-mix asphalt (HMA) plant shall be the batch-type, continuous-type, or dryer drum plant. The plants shall be evaluated for prequalification rating and approval to produce HMA according to the current Bureau of Materials and Physical Research Policy Memorandum, "Approval of Hot-Mix Asphalt Plants and Equipment". Once approved, the Contractor shall notify the Bureau of Materials and Physical Research to obtain approval of all plant modifications. The plants shall not be used to produce mixtures concurrently for more than one project or for private work unless permission is granted in writing by the Engineer. The plant units shall be so designed, coordinated and operated that they will function properly and produce HMA having uniform temperatures and compositions within the tolerances specified. The plant units shall meet the following requirements."

Add the following to Article 1102.01(a) of the Standard Specifications.

"(13) Equipment for Warm Mix Technologies.

- a. Foaming. Metering equipment for foamed asphalt shall have an accuracy of ± 2 percent of the actual water metered. The foaming control system shall be electronically interfaced with the asphalt binder meter.

- b. Additives. Additives shall be introduced into the plant according to the supplier's recommendations and shall be approved by the Engineer. The system for introducing the WMA additive shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes."

Mix Design Verification.

Add the following to Article 1030.04 of the Standard Specifications.

"(e) Warm Mix Technologies.

- (1) Foaming. WMA mix design verification will not be required when foaming technology is used alone (without WMA additives). However, the foaming technology shall only be used on HMA designs previously approved by the Department.
- (2) Additives. WMA mix designs utilizing additives shall be submitted to the Engineer for mix design verification."

Construction Requirements.

Revise the second paragraph of Article 406.06(b)(1) of the Standard Specifications to read:

"The HMA shall be delivered at a temperature of 250 to 350 °F (120 to 175 °C).
WMA shall be delivered at a minimum temperature of 215 °F (102 °C)."

Basis of Payment.

This work will be paid at the contract unit price bid for the HMA pay items involved. Anti-strip will not be paid for separately, but shall be considered as included in the cost of the work.

80288

Maintenance of Roadways

Effective: September 30, 1985

Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

COARSE AGGREGATE FOR BACKFILL, TRENCH BACKFILL AND BEDDING (D-1)

Effective: November 1, 2011

Revised: November 1, 2013

This work shall be according to Section 1004.05 of the Standard Specifications except for the following:

Reclaimed Asphalt Pavement (RAP) maybe blended with gravel, crushed gravel, crushed stone crushed concrete, crushed slag, chats, crushed sand stone or wet bottom boiler slag. The RAP used shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications". The RAP shall be uniformly graded and shall pass the 1.0 in. (25 mm) screen. When RAP is blended with any of the coarse aggregate listed above, the blending shall be done mechanically with calibrated feeders. The feeders shall have an accuracy of ± 2.0 percent of the actual quantity of material delivered. The final blended product shall not contain more than 40 percent by weight RAP.

The coarse aggregate listed above shall meet CA 6 and CA 10 gradations prior to being blended with the processed and uniformly graded RAP. Gradation deleterious count shall not exceed 10% of total RAP and 5% of other by total weight.

GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D-1)

Effective: June 26, 2006

Revised: January 1, 2013

Add the following to the end of article 1032.05 of the Standard Specifications:

“(c) Ground Tire Rubber (GTR) Modified Asphalt Binder. A quantity of 10.0 to 14.0 percent GTR (Note 1) shall be blended by dry unit weight with a PG 64-28 to make a GTR 70-28 or a PG 58-28 to make a GTR 64-28. The base PG 64-28 and PG 58-28 asphalt binders shall meet the requirements of Article 1032.05(a). Compatible polymers may be added during production. The GTR modified asphalt binder shall meet the requirements of the following table.

Test	Asphalt Grade GTR 70-28	Asphalt Grade GTR 64-28
Flash Point (C.O.C.), AASHTO T 48, °F (°C), min.	450 (232)	450 (232)
Rotational Viscosity, AASHTO T 316 @ 275 °F (135 °C), Poises, Pa·s, max.	30 (3)	30 (3)
Softening Point, AASHTO T 53, °F (°C), min.	135 (57)	130 (54)
Elastic Recovery, ASTM D 6084, Procedure A (sieve waived) @ 77 °F, (25 °C), aged, ss, 100 mm elongation, 5 cm/min., cut immediately, %, min.	65	65

Note 1. GTR shall be produced from processing automobile and/or light truck tires by the ambient grinding method. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall contain no free metal particles or other materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois modified AASHTO T 27, a 50 g sample of the GTR shall conform to the following gradation requirements:

Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 μm)	95 ± 5
No. 50 (300 μm)	> 20

Add the following to the end of Note 1. of article 1030.03 of the Standard Specifications:

“A dedicated storage tank for the Ground Tire Rubber (GTR) modified asphalt binder shall be provided. This tank must be capable of providing continuous mechanical mixing throughout by continuous agitation and recirculation of the asphalt binder to provide a uniform mixture. The tank shall be heated and capable of maintaining the temperature

of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ± 0.40 percent.”

Revise 1030.02(c) of the Standard Specifications to read:

“(c) RAP Materials (Note 3)1031”

Add the following note to 1030.02 of the Standard Specifications:

Note 3. When using reclaimed asphalt pavement and/or reclaimed asphalt shingles, the maximum asphalt binder replacement percentage shall be according to the most recent special provision for recycled materials.

HEAT OF HYDRATION CONTROL FOR CONCRETE STRUCTURES (D-1)

Effective: November 1, 2013

Article 1020.15 shall not apply.

HMA MIXTURE DESIGN REQUIREMENTS (D-1)

Effective: January 1, 2013

Revised: November 1, 2014

1) Design Composition and Volumetric Requirements

Revise the last sentence of the first paragraph of Article 312.05 of the Standard Specifications to read:

“The minimum compacted thickness of each lift shall be according to Article 406.06(d).”

Delete the minimum compacted lift thickness table in Article 312.05 of the Standard Specifications.

Revise the second paragraph of Article 355.02 of the Standard Specifications to read:

“The mixture composition used shall be IL-19.0.”

Revise Article 355.05(a) of the Standard Specifications to read:

“(a) The top lift thickness shall be 2 1/4 in. (60 mm) for mixture composition IL-19.0.”

Revise the Leveling Binder table and second paragraph of Article 406.05(c) of the Standard Specifications to read:

“Leveling Binder	
Nominal, Compacted, Leveling Binder Thickness, in. (mm)	Mixture Composition
≤ 1 1/4 (32)	IL-4.75, IL-9.5, or IL-9.5L
> 1 1/4 to 2 (32 to 50)	IL-9.5 or IL-9.5L

The density requirements of Article 406.07(c) shall apply for leveling binder, machine method, when the nominal compacted thickness is: 3/4 in. (19 mm) or greater for IL-4.75 mixtures; and 1 1/4 in. (32 mm) or greater for IL-9.5 and IL-9.5L mixtures.”

Revise the table in Article 406.06(d) of the Standard Specifications to read:

“MINIMUM COMPACTED LIFT THICKNESS	
Mixture Composition	Thickness, in. (mm)
IL-4.75	3/4 (19)
SMA-9.5, IL-9.5, IL-9.5L	1 1/2 (38)
SMA-12.5	2 (50)
IL-19.0, IL-19.0L	2 1/4 (57)”

Revise the ninth paragraph of Article 406.14 of the Standard Specifications to read:

“Test strip mixture will be evaluated at the contract unit price according to the following.”

Revise Article 406.14(a) of the Standard Specifications to read:

“(a) If the HMA placed during the initial test strip is determined to be acceptable the mixture will be paid for at the contract unit price.”

Revise Article 406.14(b) of the Standard Specifications to read:

“(b) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was not produced within 2.0 to 6.0 percent air voids or within the individual control limits of the JMF according to the Department’s test results, the mixture will not be paid for and shall be removed at the Contractor’s expense. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF.”

Revise Article 406.14(c) of the Standard Specifications to read:

“(c) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF according to the Department’s test results, the mixture shall be removed. Removal will be paid according to Article 109.04. This initial mixture will be paid for at the contract unit price. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF.”

Delete Article 406.14(d) of the Standard Specifications.

Delete Article 406.14(e) of the Standard Specifications.

Delete the last sentence of Article 407.06(c) of the Standard Specifications.

Revise Note 2. of Article 442.02 of the Standard Specifications to read:

“Note 2. The mixture composition of the HMA used shall be IL-19.0 binder, designed with the same Ndesign as that specified for the mainline pavement.”

Delete the second paragraph of Article 482.02 of the Standard Specifications.

Revise the first sentence of the sixth paragraph of Article 482.05 of the Standard Specifications to read:

“When the mainline HMA binder and surface course mixture option is used on resurfacing projects, shoulder resurfacing widths of 6 ft (1.8 m) or less may be placed simultaneously with the adjacent traffic lane for both the binder and surface courses.”

Revise the second sentence of the fourth paragraph of Article 601.04 of the Standard Specifications to read:

“The top 5 in. (125 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density.”

Revise the second sentence of the fifth paragraph of Article 601.04 of the Standard Specifications to read:

“The top 8 in. (200 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density.”

Revise Article 1003.03(c) of the Standard Specifications to read:

“(c) Gradation. The fine aggregate gradation for all HMA shall be FA 1, FA 2, FA 20, FA 21, or FA 22. The fine aggregate gradation for SMA shall be FA/FM 20.

For mixture IL-4.75 and surface mixtures with an Ndesign = 90, at least 50 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, or steel slag meeting the FA 20 gradation.

For mixture IL-19.0, Ndesign = 90 the fine aggregate fraction shall consist of at least 67 percent manufactured sand meeting FA 20 or FA 22 gradation. For mixture IL-19.0, Ndesign = 50 or 70 the fine aggregate fraction shall consist of at least 50 percent manufactured sand meeting FA 20 or FA 22 gradation. The manufactured sand shall be stone sand, slag sand, steel slag sand, or combinations thereof.

Gradation FA 1, FA 2, or FA 3 shall be used when required for prime coat aggregate application for HMA.”

Delete the last sentence of the first paragraph of Article 1004.03(b) of the Standard Specifications.

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

“Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & 3	Cover	CA 14
HMA High ESAL	IL-19.0 IL-9.5	CA 11 ^{1/} CA 16, CA 13 ^{3/}
HMA Low ESAL	IL-19.0L IL-9.5L Stabilized Subbase or Shoulders	CA 11 ^{1/} CA 16
SMA ^{2/}	1/2 in. (12.5mm) Binder & Surface IL 9.5 Surface	CA13 ^{3/} , CA14 or CA16 CA16, CA 13 ^{3/}

1/ CA 16 or CA 13 may be blended with the gradations listed.

2/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein.

3/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.

Revise Article 1004.03(e) of the Supplemental Specifications to read:

“(e) Absorption. For SMA the coarse aggregate shall also have water absorption ≤ 2.0 percent.”

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

“High ESAL	IL-19.0 binder; IL-9.5 surface; IL-4.75; SMA-12.5, SMA-9.5
Low ESAL	IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA) ^{1/} ; HMA Shoulders ^{2/}

1/ Uses 19.0L binder mix.

2/ Uses 19.0L for lower lifts and 9.5L for surface lift.”

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

“**1030.02 Materials.** Materials shall be according to the following.

Item.....	Article/Section
(a) Coarse Aggregate	1004.03
(b) Fine Aggregate	1003.03
(c) RAP Material	1031
(d) Mineral Filler	1011
(e) Hydrated Lime	1012.01
(f) Slaked Quicklime (Note 1)	
(g) Performance Graded Asphalt Binder (Note 2)	1032
(h) Fibers (Note 3)	
(i) Warm Mix Asphalt (WMA) Technologies (Note 4)	

Note 1. Slaked quicklime shall be according to ASTM C 5.

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be an Elvaloy or SBS PG 76-22 for IL-4.75, except where modified herein. The elastic recovery shall be a minimum of 80.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive

shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that produces either Type I or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, "Warm Mix Asphalt Technologies".

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

"(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

High ESAL, MIXTURE COMPOSITION (% PASSING) ^{1/}										
Sieve Size	IL-19.0 mm		SMA ^{4/} IL-12.5 mm		SMA ^{4/} IL-9.5 mm		IL-9.5 mm		IL-4.75 mm	
	min	max	min	max	min	max	min	max	min	max
1 1/2 in. (37.5 mm)										
1 in. (25 mm)		100								
3/4 in. (19 mm)	90	100		100						
1/2 in. (12.5 mm)	75	89	80	100		100		100		100
3/8 in. (9.5 mm)				65	90	100	90	100		100
#4 (4.75 mm)	40	60	20	30	36	50	34	69	90	100
#8 (2.36 mm)	20	42	16	24 ^{5/}	16	32 ^{5/}	34 ^{6/}	52 ^{2/}	70	90
#16 (1.18 mm)	15	30					10	32	50	65
#30 (600 μm)			12	16	12	18				
#50 (300 μm)	6	15					4	15	15	30
#100 (150 μm)	4	9					3	10	10	18
#200 (75 μm)	3	6	7.0	9.0 ^{3/}	7.5	9.5 ^{3/}	4	6	7	9 ^{3/}
Ratio Dust/Asphalt Binder		1.0		1.5		1.5		1.0		1.0

1/ Based on percent of total aggregate weight.

2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.

- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
- 4/ The maximum percent passing the #635 (20 μ m) sieve shall be \leq 3 percent.
- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

Delete Article 1030.04(a)(3) of the Standard Specifications.

Delete Article 1030.04(a)(4) of the Standard Specifications.

Revise Article 1030.04(b)(1) of the Standard Specifications to read:

- “(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent and for IL-4.75 it shall be 3.5 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

VOLUMETRIC REQUIREMENTS High ESAL				
Ndesign	Voids in the Mineral Aggregate (VMA), % minimum			Voids Filled with Asphalt Binder (VFA), %
	IL-19.0	IL-9.5	IL-4.75 ^{1/}	
50	13.5	15.0	18.5	65 – 78 ^{2/}
70				
90				

1/ Maximum Draindown for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 72-85 percent”

Revise the table in Article 1030.04(b)(2) of the Standard Specifications to read:

"VOLUMETRIC REQUIREMENTS Low ESAL				
Mixture Composition	Design Compactive Effort	Design Air Voids Target %	VMA (Voids in the Mineral Aggregate), % min.	VFA (Voids Filled with Asphalt Binder), %
IL-9.5L	N _{DES} =30	4.0	15.0	65-78
IL-19.0L	N _{DES} =30	4.0	13.5	N/A"

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

"(3) SMA Mixtures.

Volumetric Requirements SMA ^{1/}			
N _{design}	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
80 ^{4/}	3.5	17.0 ^{2/}	75 - 83
		16.0 ^{3/}	

- 1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.
- 2/ Applies when specific gravity of coarse aggregate is ≥ 2.760 .
- 3/ Applies when specific gravity of coarse aggregate is < 2.760 .
- 4/ Blending of different types of aggregate will not be permitted. For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

Delete Article 1030.04(b)(4) of the Standard Specifications.

Delete Article 1030.04(b)(5) from the Supplemental Specifications.

Delete last sentence of the second paragraph of Article 1102.01(a) (13) a.

Add to second paragraph in Article 1102.01 (a) (13) a.:

"As an option, collected bag-house dust may be used in lieu of manufactured mineral filler, provided; 1) there is enough available for the production of the SMA mix for the entire project and 2) a mix design was prepared with collected bag-house dust."

Revise the table in Article 1030.05(d)(2)a. of the Standard Specifications to read:

*Parameter	Frequency of Tests		Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture	Low ESAL Mixture	
Aggregate Gradation % passing sieves: 1/2 in. (12.5 mm), No. 4 (4.75 mm), No. 8 (2.36 mm), No. 30 (600 µm) No. 200 (75 µm)	1 washed ignition oven test on the mix per half day of production	Note 3.	Illinois Procedure
Asphalt Binder Content by Ignition Oven Note 1.	1 per half day of production		Illinois-Modified AASHTO T 308
VMA Note 2.	Day's production ≥ 1200 tons: 1 per half day of production Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)		Illinois-Modified AASHTO R 35
Air Voids Bulk Specific Gravity of Gyratory Sample Note 4.	Day's production ≥ 1200 tons: 1 per half day of production Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)		Illinois-Modified AASHTO T 312
Maximum Specific Gravity of Mixture	Day's production ≥ 1200 tons: 1 per half day of production Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)		Illinois-Modified AASHTO T 209

- Note 1. The Engineer may waive the ignition oven requirement for asphalt binder content if the aggregates to be used are known to have ignition asphalt binder content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the asphalt binder content.
- Note 2. The G_{sb} used in the voids in the mineral aggregate (VMA) calculation shall be the same average G_{sb} value listed in the mix design.
- Note 3. The Engineer reserves the right to require additional hot bin gradations for batch plants if control problems are evident.
- Note 4. The WMA compaction temperature for mixture volumetric testing shall be 270 ± 5 °F (132 ± 3 °C) for quality control testing. The WMA compaction temperature for quality assurance testing will be 270 ± 5 °F (132 ± 3 °C) if the mixture is not allowed to cool to room temperature. If the mixture is allowed to cool to room temperature, it shall be reheated to standard HMA compaction temperatures.”

Revise the table in Article 1030.05(d)(2)b. of the Standard Specifications to read:

Parameter	High ESAL Mixture Low ESAL Mixture
Ratio Dust/Asphalt Binder	0.6 to 1.2
Moisture	0.3 %”

Revise the Article 1030.05(d)(4) of the Supplemental Specifications to read:

- “(4) Control Limits. Target values shall be determined by applying adjustment factors to the AJMF where applicable. The target values shall be plotted on the control charts within the following control limits.

"CONTROL LIMITS						
Parameter	High ESAL		SMA		IL-4.75	
	Individual Test	Moving Avg. of 4	Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4
% Passing: ^{1/}						
1/2 in. (12.5 mm)	± 6 %	± 4 %	± 6 %	± 4 %		
3/8 in. (9.5mm)			± 4 %	± 3 %		
No. 4 (4.75 mm)	± 5 %	± 4 %	± 5 %	± 4 %		
No. 8 (2.36 mm)	± 5 %	± 3 %	± 4 %	± 2 %		
No. 16 (1.18 mm)			± 4 %	± 2 %	± 4 %	± 3 %
No. 30 (600 µm)	± 4 %	± 2.5 %	± 4 %	± 2.5 %		
Total Dust Content No. 200 (75 µm)	± 1.5 %	± 1.0 %			± 1.5 %	± 1.0 %
Asphalt Binder Content	± 0.3 %	± 0.2 %	± 0.2 %	± 0.1 %	± 0.3 %	± 0.2 %
Voids	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %
VMA	-0.7 % ^{2/}	-0.5 % ^{2/}	-0.7 % ^{2/}	-0.5 % ^{2/}	-0.7 % ^{2/}	-0.5 % ^{2/}

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement

DENSITY CONTROL LIMITS		
Mixture Composition	Parameter	Individual Test
IL-4.75	N _{design} = 50	93.0 - 97.4 % ^{1/}
IL-9.5	N _{design} = 90	92.0 - 96.0 %
IL-9.5, IL-9.5L	N _{design} < 90	92.5 - 97.4 %
IL-19.0	N _{design} = 90	93.0 - 96.0 %
IL-19.0, IL-19.0L	N _{design} < 90	93.0 ^{2/} - 97.4 %
SMA	N _{design} = 80	93.5 - 97.4 %

1/ Density shall be determined by cores or by correlated, approved thin lift nuclear gauge.

2/ 92.0 % when placed as first lift on an unimproved subgrade."

Revise the table in Article 1030.05(d)(5) of the Supplemental Specifications to read:

"CONTROL CHART REQUIREMENTS	High ESAL, Low ESAL, SMA & IL-4.75
Gradation ^{1/3/}	% Passing Sieves: 1/2 in. (12.5 mm) ^{2/} No. 4 (4.75 mm) No. 8 (2.36 mm) No. 30 (600 µm)
Total Dust Content ^{1/}	No. 200 (75 µm)
	Asphalt Binder Content
	Bulk Specific Gravity
	Maximum Specific Gravity of Mixture
	Voids
	Density
	VMA

1/ Based on washed ignition oven.

2/ Does not apply to IL-4.75.

3/ SMA also requires the 3/8 in. (9.5 mm) sieve."

Delete Article 1030.05(d)(6)a.1.(b.) of the Standard Specifications.

Delete Article 1030.06(b) of the Standard Specifications.

Delete Article 1102.01(e) of the Standard Specifications.

2) Design Verification and Production

Description. The following states the requirements for Hamburg Wheel and Tensile Strength testing for High ESAL, IL-4.75, and Stone Matrix Asphalt (SMA) hot-mix asphalt (HMA) mixes during mix design verification and production.

Mix Design Testing. Add the following below the referenced AASHTO standards in Article 1030.04 of the Standard Specifications:

AASHTO T 324 Hamburg Wheel Test

AASHTO T 283 Tensile Strength Test

Add the following to Article 1030.04 of the Standard Specifications:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod AASHTO T-324) and the

Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

All new and renewal mix designs will be required to be tested, prior to submittal for Department verification and shall meet the following requirements:

- (1) Hamburg Wheel Test criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements ^{1/}

Asphalt Binder Grade	# Repetitions	Max Rut Depth (mm)
PG 70 -XX (or higher)	20,000	12.5
PG 64 -XX (or lower)	10,000	12.5

- 1/ When produced at temperatures of 275 ± 5 °F (135 ± 3 °C) or less, loose Warm Mix Asphalt shall be oven aged at 270 ± 5 °F (132 ± 3 °C) for two hours prior to gyratory compaction of Hamburg Wheel specimens.

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions.

For IL 4.75mm Designs (N-50) the maximum rut depth is 9.0mm at 15,000 repetitions.

- (2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 80 psi (550 kPa) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

Production Testing. Revise Article 1030.06(a) of the Standard Specifications to read:

- "(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures".

Before start-up, target values shall be determined by applying gradation correction factors to the JMF when applicable. These correction factors shall be determined from previous experience. The target values, when approved by the Engineer, shall be used to control HMA production. Plant settings and control charts shall be set according to target values.

Before constructing the test strip, target values shall be determined by applying gradation correction factors to the JMF when applicable. After any JMF adjustment, the JMF shall become the Adjusted Job Mix Formula (AJMF). Upon completion of the first acceptable test strip, the JMF shall become the AJMF regardless of whether or not the JMF has been adjusted. If an adjustment/plant change is made, the Engineer may require a new test strip to be constructed. If the HMA placed during the initial test strip is determined to be unacceptable to remain in place by the Engineer, it shall be removed and replaced.

The limitations between the JMF and AJMF are as follows.

Parameter	Adjustment
1/2 in. (12.5 mm)	± 5.0 %
No. 4 (4.75 mm)	± 4.0 %
No. 8 (2.36 mm)	± 3.0 %
No. 30 (600 µm)	*
No. 200 (75 µm)	*
Asphalt Binder Content	± 0.3 %

* In no case shall the target for the amount passing be greater than the JMF.

Any adjustments outside the above limitations will require a new mix design.

Mixture sampled to represent the test strip shall include additional material sufficient for the Department to conduct Hamburg Wheel testing according to Illinois Modified AASHTO T324 (approximately 60 lb (27 kg) total).

The Contractor shall immediately cease production upon notification by the Engineer of failing Hamburg Wheel test. All prior produced material may be paved out provided all other mixture criteria is being met. No additional mixture shall be produced until the Engineer receives passing Hamburg Wheel tests.

The Department may conduct additional Hamburg Wheel tests on production material as determined by the Engineer."

Revise the title of Article 1030.06(b) of the Standard Specifications to read:

"(b) Low ESAL Mixtures."

Add the following to Article 1030.06 of the Standard Specifications:

"(c) Hamburg Wheel Test. All HMA mixtures shall be sampled within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The

requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

The Department may conduct additional Hamburg Wheel Tests on production material as determined by the Engineer. If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria"

The Contractor shall immediately cease production upon notification by the Engineer of failing Hamburg Wheel test. All prior produced material may be paved out provided all other mixture criteria are being met. No additional mixture shall be produced until the Engineer receives passing Hamburg Wheel tests.

Method of Measurement:

Add the following after the fourth paragraph of Article 406.13 (b):

"The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design's G_{mb} ."

Basis of Payment.

Replace the seventh paragraph of Article 406.14 of the Standard Specifications with the following:

"For all mixes designed and verified under the Hamburg Wheel criteria, the cost of furnishing and introducing anti-stripping additives in the HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

No additional compensation will be awarded to the Contractor because of reduced production rates associated with the addition of the anti-stripping additive."

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)

Effective: November 1, 2012

Revise: January 2, 2015

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES

1031.01 Description. Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting from cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.
- (b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Bureau of Materials and Physical Research Policy Memorandum "Reclaimed Asphalt Shingle (RAS) Sources", by weight of RAS. All RAS used shall come from a Bureau of Materials and Physical Research approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve. RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.
 - (1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
 - (2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

1031.02 Stockpiles. RAP and RAS stockpiles shall be according to the following.

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including

unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP -#4 or Type 2 RAS", etc...).

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the FRAP will be used in.
- (2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, Superpave (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 inch single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP or FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, plant cleanout etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

- (b) RAS Stockpiles. Type 1 and Type 2 RAS shall be stockpiled separately and shall be sufficiently separated to prevent intermingling at the base. Each stockpile shall be signed indicating what type of RAS is present.

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of type 1 RAS with type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type and lot number shall be maintained by project contract number and kept for a minimum of three years.

1031.03 Testing. FRAP and RAS testing shall be according to the following.

(a) FRAP Testing. When used in HMA, the FRAP shall be sampled and tested either during processing or after stockpiling. It shall also be sampled during HMA production.

(1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

(2) Incoming Material. For testing as incoming material, washed extraction samples shall be run at a minimum frequency of one sample per 2000 tons (1800 metric tons) or once per week, whichever comes first.

(3) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample of FRAP, shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

(b) RAS Testing. RAS shall be sampled and tested during stockpiling according to Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources". The Contractor shall also sample as incoming material at the HMA plant.

- (1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.
- (2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The incoming material test results shall meet the tolerances specified herein.

The Contractor shall obtain and make available all test results from start of the initial stockpile sampled and tested at the shingle processing facility in accordance with the facility's QC Plan.

Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

1031.04 Evaluation of Tests. Evaluation of tests results shall be according to the following.

- (a) Evaluation of FRAP Test Results. All test results shall be compiled to include asphalt binder content, gradation and, when applicable (for slag), G_{mm} . A five test average of results from the original pile will be used in the mix designs. Individual extraction test results run thereafter, shall be compared to the average used for the mix design, and will be accepted if within the tolerances listed below.

Parameter	FRAP
No. 4 (4.75 mm)	$\pm 6 \%$
No. 8 (2.36 mm)	$\pm 5 \%$
No. 30 (600 μm)	$\pm 5 \%$
No. 200 (75 μm)	$\pm 2.0 \%$
Asphalt Binder	$\pm 0.3 \%$
G_{mm}	± 0.03 ^{1/}

- 1/ For stockpile with slag or steel slag present as determined in the current Manual of Test Procedures Appendix B 21, "Determination of Reclaimed Asphalt Pavement Aggregate Bulk Specific Gravity".

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the FRAP stockpile shall not be used in Hot-Mix Asphalt unless the FRAP representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

The Contractor shall maintain a representative moving average of five tests to be used for Hot-Mix Asphalt production.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)" or Illinois Modified AASHTO T-164-11, Test Method A.

- (b) Evaluation of RAS Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. A five test average of results from the original pile will be used in the mix designs. Individual test results run thereafter, when compared to the average used for the mix design, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	± 5 %
No. 30 (600 µm)	± 4 %
No. 200 (75 µm)	± 2.5 %
Asphalt Binder Content	± 2.0 %

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the RAS shall not be used in Hot-Mix Asphalt unless the RAS representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

- (c) Quality Assurance by the Engineer. The Engineer may witness the sampling and splitting conduct assurance tests on split samples taken by the Contractor for quality control testing a minimum of once a month.

The overall testing frequency will be performed over the entire range of Contractor samples for asphalt binder content and gradation. The Engineer may select any or all split samples for assurance testing. The test results will be made available to the Contractor as soon as they become available.

The Engineer will notify the Contractor of observed deficiencies.

Differences between the Contractor's and the Engineer's split sample test results will be considered acceptable if within the following limits.

Test Parameter	Acceptable Limits of Precision	
	FRAP	RAS
% Passing: ^{1/}		
1 / 2 in.	5.0%	
No. 4	5.0%	
No. 8	3.0%	4.0%
No. 30	2.0%	3.0%
No. 200	2.2%	2.5%
Asphalt Binder Content	0.3%	1.0%
G _{mm}	0.030	

1/ Based on washed extraction.

In the event comparisons are outside the above acceptable limits of precision, the Engineer will immediately investigate.

- (d) Acceptance by the Engineer. Acceptable of the material will be based on the validation of the Contractor's quality control by the assurance process.

1031.05 Quality Designation of Aggregate in RAP and FRAP.

- (a) RAP. The aggregate quality of the RAP for homogenous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.
- (1) RAP from Class I, Superpave/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
 - (2) RAP from Superpave/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
 - (3) RAP from Class I, Superpave/HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.
 - (4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

- (b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant prequalified by the Department for the specified testing. The consultant shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the BMPR Aggregate Lab for MicroDeval Testing, according to Illinois Modified AASHTO T 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

1031.06 Use of FRAP and/or RAS in HMA. The use of FRAP and/or RAS shall be a Contractor's option when constructing HMA in all contracts.

- (a) FRAP. The use of FRAP in HMA shall be as follows.

- (1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.
- (3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.
- (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.
- (5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.

- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.
- (c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0% by weight of the total mix.

When FRAP is used alone or FRAP is used in conjunction with RAS, the percent of virgin asphalt binder replacement (ABR) shall not exceed the amounts indicated in the table below for a given N Design.

Max Asphalt Binder Replacement for FRAP with RAS Combination

HMA Mixtures ^{1/2/}	Maximum % ABR		
	Binder/Leveling Binder	Surface	Polymer Modified ^{3/}
30L	50	40	10
50	40	35	10
70	40	30	10
90	40	30	10 ^{4/}
4.75 mm N-50			30
SMA N-80			20

- 1/ For HMA "All Other" (shoulder and stabilized subbase) N-30, the percent asphalt binder replacement shall not exceed 50% of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 percent for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 percent, the required virgin asphalt binder grade shall be PG64-28.
- 3/ When the ABR for SMA or IL-4.75 is 15 percent or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.
- 4/ For polymerized surface mix used for overlays, with up to 10 percent ABR, an SBS PG70-22 will be required. However if used in full depth HMA, an SBS PG70-28 will be required.

1031.07 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP and/or RAS material meeting the detailed requirements specified herein.

- (a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.
- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design. A RAS stone bulk specific gravity (Gsb) of 2.300 shall be used for mix design purposes.

1031.08 HMA Production. HMA production utilizing FRAP and/or RAS shall be as follows.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If during mix production, corrective actions fail to maintain FRAP, RAS or QC/QA test results within control tolerances or the requirements listed herein the Contractor shall cease production of the mixture containing FRAP or RAS and conduct an investigation that may require a new mix design.

- (a) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.
- (b) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.
 - (1) Dryer Drum Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

- d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
 - e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
 - f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
 - g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.
 - h. Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)
 - i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.
 - j. Accumulated mixture tonnage.
 - k. Dust Removed (accumulated to the nearest 0.1 ton)
- (2) Batch Plants.
- a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
 - d. Mineral filler weight to the nearest pound (kilogram).
 - e. RAS and FRAP weight to the nearest pound (kilogram).
 - f. Virgin asphalt binder weight to the nearest pound (kilogram).
 - g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.09 RAP in Aggregate Surface Course and Aggregate Shoulders. The use of

RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used to construct aggregate surface course and aggregate shoulders shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications"
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded, FRAP, or single sized will not be accepted for use as Aggregate Surface Course and Aggregate Shoulders."

COUNTY OF COOK
CHICAGO, ILLINOIS

PROPOSAL

For a County Highway Improvement in the County of Cook, State of Illinois,

known as Center Street

Route W52 Section 02-W5208-02-RP

From 171st Street To 159th Street

LOCATION OF IMPROVEMENT

The proposed improvement is part of the public highway system in the County of Cook, State of Illinois, located by section and route before mentioned, and is indicated on the map showing the County Highway System on file in the office of the County Clerk and also in the office of the Illinois Department of Transportation, Division of Highways, Springfield, Illinois.

CH-W52 (Center Street) – 171st Street to 159th Street

DESCRIPTION OF IMPROVEMENT

It is the intent of this contract to provide for the reconstruction of Center Street from 171st Street to 159th Street. Center Street will be reconstructed to three (3) eleven foot travel lanes with combination concrete curb and gutter. The existing composite pavement of Center Street shall be completely removed and then reconstructed with P. C. Concrete Pavement (12 Inch) along with a 12 inch Aggregate Subgrade. Also included is the removal and replacement of existing drainage structures, main storm sewer, traffic signal work at the intersections of Center Street with 171st Street and 167th Street, temporary traffic signals in order to accommodate construction staging, Illinois Central Railroad Company/CN coordination, water main installation, reconstruction of side streets as indicated on the plans, pavement markings, signing, parkway landscaping with topsoil and seeding, detour routing, traffic protection and all other work as required to complete the improvement.

**ECONOMIC DISCLOSURE STATEMENT
AND EXECUTION DOCUMENTS**

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4	Affidavit Veteran's Workplace Preference Public Works Contracts
5	Economic Disclosure Statement and Execution Document Index
6	Instructions for Completion of Economic Disclosure Statement and Execution Documents
7	Certifications Lobby, Local Business Preference, Child Support Enforcement Ordinance, Real Estate Ownership Affidavit of Child Support Obligations Disclosure of Ownership Interest Statement Familial Relationship Disclosure Provision Familial Relationship Disclosure Form
8	Execution Pages Contract and EDS Execution Pages (3) Cook County Signature Page
9	Insert IDOT Certificate of Eligibility
10	Insert IDOT Affidavit of Availability
11	Labor Standards & Prevailing Wage Requirements Contractor's Certification Concerning Labor Standards & Prevailing Wage Requirements Form Subcontractor's Certification Concerning Labor Standards & Prevailing Wage Requirements Form
12	DBE Forms DBE Participation Statement DBE Utilization Plan Letter of Intent from DBE to perform as Subcontractor, Supplier and/or Consultant Petition of Waiver of DBE Participation DBE Good Faith Efforts Checklist Good Faith Efforts Contacts Log

**SECTION 1: Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:	
<input type="radio"/>	Disqualification
<input type="radio"/>	Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.: CENTER STREET	Date: 5/12/2015
Total Bid or Proposal Amount:	Contract Title: CH W52(CENTER STREET) - 171ST STREET TO 159TH STREET
Contractor: CAPITOL CEMENT CO., INC.	Subcontractor/Supplier/ Subconsultant to be added or substitute: CABO CONSTRUCTION CORP.
Authorized Contact for Contractor: DAVID SLONIM	Authorized Contact for Subcontractor/Supplier/ Subconsultant: ROBERT BOHAC
Email Address (Contractor): DAVID@CAPITOLCEMENTCO.COM	Email Address (Subcontractor):
Company Address (Contractor): 6231 NORTH PULASKI RD.	Company Address (Subcontractor): 1270 SOUTH KOSTNER
City, State and Zip (Contractor): CHICAGO, IL 60646	City, State and Zip (Subcontractor): CHICAGO, IL 60623
Telephone and Fax (Contractor): 773-478-2200 773-478-4646	Telephone and Fax (Subcontractor): 773-457-11306
Estimated Start and Completion Dates (Contractor): EST. START 7/2015 EST. COMPLETION DATE 7/31/16	Estimated Start and Completion Dates (Subcontractor):

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
Sewer / WATER	2,842,171 ⁰⁰

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. This form does not approve any proposed changes, revisions or modifications to the contract approved DBE Utilization Plan. Any changes to the contract's approved DBE/Utilization Plan must be submitted to the Office of the Contract Compliance.

Contractor: CAPITOL CEMENT COMPANY, INC.

Name: DAVID SLONIM

Title: VICE PRESIDENT

Date: 5/12/2015

Prime Contractor Signature

David Slonim

Date

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<input type="checkbox"/> Disqualification	
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Bid/RFP/RFQ No.: CENTER STREET	Date: 5/12/2015
Total Bid or Proposal Amount:	Contract Title: CH W52(CENTER STREET) - 171ST STREET TO 159TH STREET
Contractor: CAPITOL CEMENT CO., INC.	Subcontractor/Supplier/ Subconsultant to be added or substitute: J. JASSO TRUCKING
Authorized Contact for Contractor: DAVID SLONIM	Authorized Contact for Subcontractor/Supplier/ Subconsultant: JOSE JASSO
Email Address (Contractor): DAVID@CAPITOLCEMENTCO.COM	Email Address (Subcontractor): J.JASSOTRUCKING@YAHOO.COM
Company Address (Contractor): 6231 NORTH PULASKI RD.	Company Address (Subcontractor): 5719 S. HOMAN
City, State and Zip (Contractor): CHICAGO, IL 60646	City, State and Zip (Subcontractor): CHICAGO, IL 60629
Telephone and Fax (Contractor): 773-478-2200 773-478-4646	Telephone and Fax (Subcontractor): 773-434-3051
Estimated Start and Completion Dates (Contractor): EST. START 7/2015 EST. COMPLETION DATE 7/31/16	Estimated Start and Completion Dates (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
<i>Trucking / Disposal</i>	<i>429,500⁰⁰</i>

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. This form does not approve any proposed changes, revisions or modifications to the contract approved DBE Utilization Plan. Any changes to the contract's approved DBE/Utilization Plan must be submitted to the Office of the Contract Compliance.

Contractor CAPITOL CEMENT COMPANY, INC.

Name DAVID SLONIM

Title VICE PRESIDENT

5/12/2015

Prime Contractor Signature

Date

David Slonim

SECTION 1: Cook County
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Bid/RFP/RFQ No.: CENTER STREET	Date: 5/12/2015
Total Bid or Proposal Amount:	Contract Title: CH W52(CENTER STREET) - 171ST STREET TO 159TH STREET
Contractor: CAPITOL CEMENT CO., INC.	Subcontractor/Supplier/ Subconsultant to be METROMEX added or substitute:
Authorized Contact for Contractor: DAVID SLONIM	Authorized Contact for Subcontractor/Supplier/ Subconsultant: DUSIYANT PATEL
Email Address (Contractor): DAVID@CAPITOLCEMENTCO.COM	Email Address (Subcontractor): Dpatel@metromex1.com
Company Address (Contractor): 6231 NORTH PULASKI RD.	Company Address (Subcontractor): 9550 SERGIO DRIVE SUITE 100
City, State and Zip (Contractor): CHICAGO, IL 60646	City, State and Zip (Subcontractor): MCCOOK, IL 60525
Telephone and Fax (Contractor): 773-478-2200 773-478-4646	Telephone and Fax (Subcontractor): 708-485-3000 X12 / 708-485-3011
Estimated Start and Completion Dates (Contractor): EST. START 7/2015 EST. COMPLETION DATE 7/31/16	Estimated Start and Completion Dates (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
<i>Asphalt</i>	<i>213,160⁰⁰</i>

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. This form does not approve any proposed changes, revisions or modifications to the contract approved DBE Utilization Plan. Any changes to the contract's approved DBE/Utilization Plan must be submitted to the Office of the Contract Compliance.

Contractor CAPITOL CEMENT COMPANY, INC.

Name DAVID SLONIM

Title VICE PRESIDENT

5/12/2015

Prime Contractor Signature

Date

David Slonim

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Bid/RFP/RFQ No.: CENTER STREET	Date: 5/12/2015
Total Bid or Proposal Amount:	Contract Title: CH W52(CENTER STREET) - 171ST STREET TO 159TH STREET
Contractor: CAPITOL CEMENT CO., INC.	Subcontractor/Supplier/ Subconsultant to be added or substitute: POWER ONE SUPPLY
Authorized Contact for Contractor: DAVID SLONIM	Authorized Contact for Subcontractor/Supplier/ Subconsultant: MARTIN L. STEPHENSON JR.
Email Address (Contractor): DAVID@CAPITOLCEMENTCO.COM	Email Address (Subcontractor):
Company Address (Contractor): 6231 NORTH PULASKI RD.	Company Address (Subcontractor): 355 RIVER STREET, STE 101
City, State and Zip (Contractor): CHICAGO, IL 60646	City, State and Zip (Subcontractor): BATAVIA, IL 60510
Telephone and Fax (Contractor): 773-478-2200 773-478-4646	Telephone and Fax (Subcontractor): 630-208-9778
Estimated Start and Completion Dates (Contractor): EST. START 7/2015 EST. COMPLETION DATE 7/31/16	Estimated Start and Completion Dates (Subcontractor):

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
Electric Material	60% = 50,113 ⁶¹

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. This form does not approve any proposed changes, revisions or modifications to the contract approved DBE Utilization Plan. Any changes to the contract's approved DBE/Utilization Plan must be submitted to the Office of the Contract Compliance.

Contractor **CAPITOL CEMENT COMPANY, INC.**

Name **DAVID SLONIM**

Title **VICE PRESIDENT**

5/12/2015

Prime Contractor Signature

Date

David Slonim

**SECTION 1: Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:	
<input type="radio"/>	Disqualification
<input type="radio"/>	Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.: CENTER STREET	Date: 5/12/2015
Total Bid or Proposal Amount:	Contract Title: CH W52(CENTER STREET) - 171ST STREET TO 159TH STREET
Contractor: CAPITOL CEMENT CO., INC.	Subcontractor/Supplier/ Subconsultant to be added or substitute: MATERIAL TESTING SOLUTIONS LABORATORY
Authorized Contact for Contractor: DAVID SLONIM	Authorized Contact for Subcontractor/Supplier/ Subconsultant: SAM KUKADIA
Email Address (Contractor): DAVID@CAPITOLCEMENTCO.COM	Email Address (Subcontractor): SAM@MSL-CORP.COM
Company Address (Contractor): 6231 NORTH PULASKI RD.	Company Address (Subcontractor): 1040 BONAVENTURE DRIVE
City, State and Zip (Contractor): CHICAGO, IL 60646	City, State and Zip (Subcontractor): ELK GROVE VILLAGE, IL 60007
Telephone and Fax (Contractor): 773-478-2200 / 773-478-4646	Telephone and Fax (Subcontractor): 847-466-7216 / 847-285-1712
Estimated Start and Completion Dates (Contractor): EST. START 7/2015 / EST. COMPLETION DATE 7/31/16	Estimated Start and Completion Dates (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
<i>Testing/Inspection</i>	<i>15,000⁰⁰</i>

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. This form does not approve any proposed changes, revisions or modifications to the contract approved DBE Utilization Plan. Any changes to the contract's approved DBE/Utilization Plan must be submitted to the Office of the Contract Compliance.

Contractor **CAPITOL CEMENT COMPANY, INC.**

Name **DAVID SLONIM**

Title **VICE PRESIDENT**

5/12/2015

Prime Contractor Signature

Date

David Slonim

**SECTION 1: Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:	
<input type="radio"/>	Disqualification
<input type="radio"/>	Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.: CENTER STREET	Date: 5/12/2015
Total Bid or Proposal Amount:	Contract Title: CH W52(CENTER STREET) - 171ST STREET TO 159TH STREET
Contractor: CAPITOL CEMENT CO., INC.	Subcontractor/Supplier/ Subconsultant to be added or substitute: CABLE DESIGN, INC.
Authorized Contact for Contractor: DAVID SLONIM	Authorized Contact for Subcontractor/Supplier/ Subconsultant: KATHLEEN POPE
Email Address (Contractor): DAVID@CAPITOLCEMENTCO.COM	Email Address (Subcontractor):
Company Address (Contractor): 6231 NORTH PULASKI RD.	Company Address (Subcontractor): 705 11TH STREET, #200
City, State and Zip (Contractor): CHICAGO, IL 60646	City, State and Zip (Subcontractor): WILMETTE, IL 60091
Telephone and Fax (Contractor): 773-478-2200 / 773-478-4646	Telephone and Fax (Subcontractor): 847-256-9813
Estimated Start and Completion Dates (Contractor): EST. START 7/2015 / EST. COMPLETION DATE 7/31/16	Estimated Start and Completion Dates (Subcontractor):

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
FENCE MATERIAL	$53,250 \times 60\% = 31,950^{00}$

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. This form does not approve any proposed changes, revisions or modifications to the contract approved DBE Utilization Plan. Any changes to the contract's approved DBE/Utilization Plan must be submitted to the Office of the Contract Compliance.

Contractor CAPITOL CEMENT COMPANY, INC.

Name DAVID SLONIM

Title VICE PRESIDENT

5/12/2015

Prime Contractor Signature

Date

David Slonim

**SECTION 1: Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:	
<input type="radio"/> Disqualification	
<input type="radio"/> Check Complete	

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.: CENTER STREET	Date: 5/12/2015
Total Bid or Proposal Amount:	Contract Title: CH W52(CENTER STREET) - 171ST STREET TO 159TH STREET
Contractor: CAPITOL CEMENT CO., INC.	Subcontractor/Supplier/ Subconsultant to be added or substitute: SMITH MAINTENANCE
Authorized Contact for Contractor: DAVID SLONIM	Authorized Contact for Subcontractor/Supplier/ Subconsultant: MICHAEL SMITH
Email Address (Contractor): DAVID@CAPITOLCEMENTCO.COM	Email Address (Subcontractor):
Company Address (Contractor): 6231 NORTH PULASKI RD.	Company Address (Subcontractor): 205 W. RANDOLPH STREET STE 925
City, State and Zip (Contractor): CHICAGO, IL 60646	City, State and Zip (Subcontractor): CHICAGO, IL 60606
Telephone and Fax (Contractor): 773-478-2200 773-478-4646	Telephone and Fax (Subcontractor): 312-425-1962
Estimated Start and Completion Dates (Contractor): EST. START 7/2015 EST. COMPLETION DATE 7/31/16	Estimated Start and Completion Dates (Subcontractor):

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
<i>Traffic Control / sign</i>	<i>71,286⁰⁰</i>

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. This form does not approve any proposed changes, revisions or modifications to the contract approved DBE Utilization Plan. Any changes to the contract's approved DBE/Utilization Plan must be submitted to the Office of the Contract Compliance.

Contractor **CAPITOL CEMENT COMPANY, INC.**

Name **DAVID SLONIM**

Title **VICE PRESIDENT**

5/12/2015

Prime Contractor Signature

Date

David Slonim

**SECTION 2: OFFICE OF THE COOK COUNTY COMPTROLLER
ELECTRONIC PAYABLES PROGRAM ("E-PAYABLES")**

FOR INFORMATION PURPOSES ONLY

**This document describes the Office of the Cook County Comptroller's Electronic Payables Program ("E-Payables").
If you wish to participate in E-Payables, please contact the Cook County Comptroller's Office, Accounts Payable, 118 N. Clark
Street, Room 500, Chicago, IL 60602.**

DESCRIPTION

To increase payment efficiency and timeliness, we have introduced E-Payables program, a new payment initiative to our accounts payable model. This new initiative utilizes a Visa purchasing card and operates through the Visa payment network. This is County's preferred method of payment and your participation in our Visa purchasing card program will provide mutual benefits both to your organization and ours.

As a vendor, you may experience the following benefits by accepting this new payment type:

- Improved cash flow and accelerated payment
- Reduced paperwork and a more streamlined accounts receivable process
- Elimination of stop payment issues
- Reduced payment delays
- Reduced costs for handling paper checks
- Payments settled directly to your merchant account

There are two options within this initiative:

1. Dedicated Credit Card – "PULL" Settlement

For this option, you will have an assigned dedicated credit card to be used for each payment. You will provide a point of contact within your organization who will keep credit card information on file. Each time a payment is made, you will receive a remittance advice via email detailing the invoices being paid. Each time you receive a remittance advice, you will process payments in the same manner you process credit card transactions today.

2. One-Time Use Credit Card – "SUGA" Settlement

For this option, you will provide a point of contact within your organization who will receive an email notification authorizing you to process payments in the same manner you process credit card transactions today. Each time payment is made, you will receive a remittance advice, via email, detailing the invoices being paid. Also, each time you receive a remittance advice, you will receive a new, unique credit card number. This option is ideal for suppliers who are unable to keep credit card account information on file.

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SECTION 3: VETERAN'S PREFERENCE FOR VBE AND SDVBE

INSTRUCTIONS

In accordance with Section 34-236(b) of the Cook County Procurement Code, the Chief Procurement Officer ("CPO") shall give a preference of **five percent of the amount of the Contract** to a Responsible and Responsive Veterans Owned Business Enterprise (VBE) and Service Disabled Veterans Business Enterprise (SDVBE) requesting a preference for Bids. **All Bidders who are requesting this preference must complete the form, and attach a copy of its certification. Prior to applying the five percent preference, the CPO must receive approval from the Contract Compliance Director (CCD) that the Bidder is a qualified VBE or SDVBE.**

DEFINITIONS

Veteran-owned Business Enterprise (VBE) means a small business (i) that is at least 51 percent owned, controlled and managed by one or more Eligible Veterans or in the case of a corporation, at least 51 percent or more of the stock of which is owned, controlled and managed by one or more Eligible Veterans; (ii) that has its home office in Illinois, as certified by the Contract Compliance Director (CCD) under policies and procedures promulgated by the CCD.

Eligible Veteran means a person who (i) has been either a member of the armed forces of the United States or, while a citizen of the United States, was a member of the armed forces of allies of the United States in time of hostilities with a foreign country and (ii) has served under one or more of the following conditions: (a) the veteran served a total of at least 6 months; (b) the veteran served for the duration of hostilities regardless of the length of the engagement; (c) the veteran was discharged on the basis of hardship; or (d) the veteran was released from active duty because of a service connected disability and was discharged under honorable conditions.

Armed forces of the United States means the United States Army, Navy, Air Force, Marine Corps, Coast Guard or service in active duty as defined under 38 U.S.C. Section 101. Service in the Merchant Marine that constitutes active duty under Section 401 of federal Public Act 95-202 shall also be considered service in the armed forces for purposes of this Division.

Service-Disabled Veteran-owned Business Enterprise (SDVBE) means a small business (i) that is at least 51 percent owned, controlled, and managed by one or more qualified service disabled veterans or in the case of a corporation, at least 51 percent or more of the stock of which is owned, controlled and managed by one or more Service Disabled Veterans; (ii) that has its home office in Illinois, as certified by the CCD under policies and procedures promulgated by the CCD.

Service-Disabled Veteran means an Eligible Veteran who has been found to have 10 percent or more service connected disability by the United States Department of Veterans Affairs or the United States Department of Defense.

Service-connected disability means a disability incurred in the line of duty in the active military, naval or air service as described in 38 U.S.C. 101(16).

Small Business means a small business as defined by the U.S. Small Business Administration, pursuant to the business size standards found in 13 CFR Part 121, as related to the nature of the work the Person seeks to perform on Contracts. A Person is not an eligible small business enterprise in any calendar fiscal year in which its gross receipts, averaged over the Person's previous five fiscal years, exceed the size standards of 13 CFR Part 121.

REQUEST FOR PREFERENCE

_____ Bidder is requesting to receive a preference as a VBE. By requesting this preference, Bidder certifies that it meets the definition of a VBE, as set forth above and has included a copy of its certification.

_____ Bidder is requesting to receive a preference as a SDVBE. By requesting this preference, Bidder certifies that it meets The definition of a SDVBE, as set forth above and has included a copy of its certification.

Bidder (please print or type)

Title

Signature

Date

E-mail address

Phone Number

Subscribed to and sworn before me
this ____ day of _____, 20____.

My commission expires:

X _____
Notary Public Signature

Notary Seal

SECTION 4: AFFIDAVIT
VETERAN'S WORKPLACE PREFERENCE PUBLIC WORKS CONTRACTS

INSTRUCTIONS

In accordance with Section 34-236(a) of the Cook County Procurement Code, the Chief Procurement Officer ("CPO") shall give a preference of **one percent of the amount of the Contract** to a Responsible and Responsive Contractor for a Public Works Contract when such Contractor has committed by affidavit to utilize Eligible Veterans for at least five percent of the hours worked under such Contract. Failure to utilize Eligible Veterans in accordance with the affidavit will result in breach of contract. **All Bidders who are requesting this preference must complete this Affidavit.**

DEFINITIONS

Eligible Veteran means a person who (i) has been either a member of the armed forces of the United States or, while a citizen of the United States, was a member of the armed forces of allies of the United States in time of hostilities with a foreign country and (ii) has served under one or more of the following conditions: (a) the veteran served a total of at least 6 months; (b) the veteran served for the duration of hostilities regardless of the length of the engagement; (c) the veteran was discharged on the basis of hardship; or (d) the veteran was released from active duty because of a service connected disability and was discharged under honorable conditions.

Armed forces of the United States means the United States Army, Navy, Air Force, Marine Corps, Coast Guard or service in active duty as defined under 38 U.S.C. Section 101. Service in the Merchant Marine that constitutes active duty under Section 401 of federal Public Act 95-202 shall also be considered service in the armed forces for purposes of this Division.

Public Works means all fixed works constructed or demolished by the County, or paid for wholly or in part out of public funds administered by the County. "Public Works" as defined herein includes all projects financed in whole or in part with bonds, grants, loans, or other funds made available by or through federal or State government, or the County. "Public Works" does not include projects undertaken by the owner at an owner-occupied single-family residence or at an owner-occupied unit of a multifamily residence. "Public Works" includes any maintenance, repair, assembly, or disassembly work performed on equipment whether owned, leased, or rented.

I, _____, being first duly sworn, do depose and state as follows:

1. I am the authorized representative and I have the authority to make this Affidavit for and on behalf of the Bidder.
2. The Bidder is requesting the CPO grant a preference of one percent of the amount of the Contract in accordance with Section 34-236(a) of the Cook Procurement Code, as set forth above.
3. In accordance with the Cook County Procurement Code, the Bidder shall commit to utilize Eligible Veterans for at least five percent of the hours worked under the Contract. The Eligible Veterans must be employed directly by the Bidder.
4. The Bidder shall be solely responsible for requesting all persons to provide Bidder with appropriate documentation to ensure that such person(s) is an Eligible Veteran, as defined above. Bidder certifies, that by seeking this preference, it shall maintain appropriate documentation, including payroll records, which show the number of hours worked by Eligible Veterans.
5. The Bidder certifies, affirms and acknowledges that the failure to utilize Eligible Veterans in accordance with this Affidavit will result in a breach of contract, which will allow the County to seek all rights and remedies as set forth in the Contract and any other appropriate remedies available in equity or at law.

Bidder (please print or type)

Title

Signature

Date

E-mail address

Phone Number

Subscribed to and sworn before me
this ____ day of _____, 20____.

My commission expires:

X _____
Notary Public Signature

Notary Seal

**SECTION 5: COOK COUNTY
ECONOMIC DISCLOSURE STATEMENT
AND EXECUTION DOCUMENT
INDEX**

Section	Description	Pages
6	Instructions for Completion of EDS	EDS i - ii
7	Certifications	EDS 1- 2
7	Economic and Other Disclosures, Affidavit of Child Support Obligations and Disclosure of Ownership Interest	EDS 3 – 12
8	Contract and EDS Execution Page	EDS 13-15
8	Cook County Signature Page	EDS 16

SECTION 6
INSTRUCTIONS FOR COMPLETION OF
ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT

This Economic Disclosure Statement and Execution Document ("EDS") is to be completed and executed by every Bidder on a County contract, every Proposer responding to a Request for Proposals, and every Respondent responding to a Request for Qualifications, and others as required by the Chief Procurement Officer. The execution of the EDS shall serve as the execution of a contract awarded by the County. The Chief Procurement Officer reserves the right to request that the Bidder or Proposer, or Respondent provide an updated EDS on an annual basis.

Definitions. Terms used in this EDS and not otherwise defined herein shall have the meanings given to such terms in the Instructions to Bidders, General Conditions, Request for Proposals, Request for Qualifications, as applicable.

Affiliate means a person that directly or indirectly through one or more intermediaries, Controls is Controlled by, or is under common Control with the Person specified.

Applicant means a person who executes this EDS.

Bidder means any person who submits a Bid.

Code means the Code of Ordinances, Cook County, Illinois available on municode.com.

Contract shall include any written document to make Procurements by or on behalf of Cook County.

Contractor or *Contracting Party* means a person that enters into a Contract with the County.

Control means the unfettered authority to directly or indirectly manage governance, administration, work, and all other aspects of a business.

EDS means this complete Economic Disclosure Statement and Execution Document, including all sections listed in the Index and any attachments.

Joint Venture means an association of two or more Persons proposing to perform a for-profit business enterprise. Joint Ventures must have an agreement in writing specifying the terms and conditions of the relationship between the partners and their relationship and respective responsibility for the Contract

Lobby or *lobbying* means to, for compensation, attempt to influence a County official or County employee with respect to any County matter.

Lobbyist means any person who lobbies.

Person or *Persons* means any individual, corporation, partnership, Joint Venture, trust, association, Limited Liability Company, sole proprietorship or other legal entity.

Prohibited Acts means any of the actions or occurrences which form the basis for disqualification under the Code, or under the Certifications hereinafter set forth.

Proposal means a response to an RFP.

Proposer means a person submitting a Proposal.

Response means response to an RFQ.

Respondent means a person responding to an RFQ.

RFP means a Request for Proposals issued pursuant to this Procurement Code.

RFQ means a Request for Qualifications issued to obtain the qualifications of interested parties.

**INSTRUCTIONS FOR COMPLETION OF
ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT**

Section 1: Instructions. Section 1 sets forth the instructions for completing and executing this EDS.

Section 2: Certifications. Section 2 sets forth certifications that are required for contracting parties under the Code and other applicable laws. Execution of this EDS constitutes a warranty that all the statements and certifications contained, and all the facts stated, in the Certifications are true, correct and complete as of the date of execution.

Section 3: Economic and Other Disclosures Statement. Section 3 is the County's required Economic and Other Disclosures Statement form. Execution of this EDS constitutes a warranty that all the information provided in the EDS is true, correct and complete as of the date of execution, and binds the Applicant to the warranties, representations, agreements and acknowledgements contained therein.

Required Updates. The Applicant is required to keep all information provided in this EDS current and accurate. In the event of any change in the information provided, including but not limited to any change which would render inaccurate or incomplete any certification or statement made in this EDS, the Applicant shall supplement this EDS up to the time the County takes action, by filing an amended EDS or such other documentation as is required.

Additional Information. The County's Governmental Ethics and Campaign Financing Ordinances impose certain duties and obligations on persons or entities seeking County contracts, work, business, or transactions, and the Applicant is expected to comply fully with these ordinances. For further information please contact the Director of Ethics at (312) 603-4304 (69 W. Washington St. Suite 3040, Chicago, IL 60602) or visit the web-site at cookcountyil.gov/ethics-board-of.

Authorized Signers of Contract and EDS Execution Page. If the Applicant is a corporation, the President and Secretary must execute the EDS. In the event that this EDS is executed by someone other than the President, attach hereto a certified copy of that section of the Corporate By-Laws or other authorization by the Corporation, satisfactory to the County that permits the person to execute EDS for said corporation. If the corporation is not registered in the State of Illinois, a copy of the Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

If the Applicant is a partnership or joint venture, all partners or joint venturers must execute the EDS, unless one partner or joint venture has been authorized to sign for the partnership or joint venture, in which case, the partnership agreement, resolution or evidence of such authority satisfactory to the Office of the Chief Procurement Officer must be submitted with this Signature Page.

If the Applicant is a member-managed LLC all members must execute the EDS, unless otherwise provided in the operating agreement, resolution or other corporate documents. If the Applicant is a manager-managed LLC, the manager(s) must execute the EDS. The Applicant must attach either a certified copy of the operating agreement, resolution or other authorization, satisfactory to the County, demonstrating such person has the authority to execute the EDS on behalf of the LLC. If the LLC is not registered in the State of Illinois, a copy of a current Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

If the Applicant is a Sole Proprietorship, the sole proprietor must execute the EDS.

A "Partnership" "Joint Venture" or "Sole Proprietorship" operating under an Assumed Name must be registered with the Illinois county in which it is located, as provided in 805 ILCS 405 (2012), and documentation evidencing registration must be submitted with the EDS.

SECTION 7

CERTIFICATIONS

THE FOLLOWING CERTIFICATIONS ARE MADE PURSUANT TO STATE LAW AND THE CODE. THE APPLICANT IS CAUTIONED TO CAREFULLY READ THESE CERTIFICATIONS PRIOR TO SIGNING THE SIGNATURE PAGE. SIGNING THE SIGNATURE PAGE SHALL CONSTITUTE A WARRANTY BY THE APPLICANT THAT ALL THE STATEMENTS, CERTIFICATIONS AND INFORMATION SET FORTH WITHIN THESE CERTIFICATIONS ARE TRUE, COMPLETE AND CORRECT AS OF THE DATE THE SIGNATURE PAGE IS SIGNED. THE APPLICANT IS NOTIFIED THAT IF THE COUNTY LEARNS THAT ANY OF THE FOLLOWING CERTIFICATIONS WERE FALSELY MADE, THAT ANY CONTRACT ENTERED INTO WITH THE APPLICANT SHALL BE SUBJECT TO TERMINATION.

A. PERSONS AND ENTITIES SUBJECT TO DISQUALIFICATION

No person or business entity shall be awarded a contract or sub-contract, for a period of five (5) years from the date of conviction or entry of a plea or admission of guilt, civil or criminal, if that person or business entity:

- 1) Has been convicted of an act committed, within the State of Illinois, of bribery or attempting to bribe an officer or employee of a unit of state, federal or local government or school district in the State of Illinois in that officer's or employee's official capacity;
- 2) Has been convicted by federal, state or local government of an act of bid-rigging or attempting to rig bids as defined in the Sherman Anti-Trust Act and Clayton Act. Act. 15 U.S.C. Section 1 *et seq.*;
- 3) Has been convicted of bid-rigging or attempting to rig bids under the laws of federal, state or local government;
- 4) Has been convicted of an act committed, within the State, of price-fixing or attempting to fix prices as defined by the Sherman Anti-Trust Act and the Clayton Act. 15 U.S.C. Section 1, *et seq.*;
- 5) Has been convicted of price-fixing or attempting to fix prices under the laws the State;
- 6) Has been convicted of defrauding or attempting to defraud any unit of state or local government or school district within the State of Illinois;
- 7) Has made an admission of guilt of such conduct as set forth in subsections (1) through (6) above which admission is a matter of record, whether or not such person or business entity was subject to prosecution for the offense or offenses admitted to; or
- 8) Has entered a plea of *nolo contendere* to charge of bribery, price-fixing, bid-rigging, or fraud, as set forth in sub-paragraphs (1) through (6) above.

In the case of bribery or attempting to bribe, a business entity may not be awarded a contract if an official, agent or employee of such business entity committed the Prohibited Act on behalf of the business entity and pursuant to the direction or authorization of an officer, director or other responsible official of the business entity, and such Prohibited Act occurred within three years prior to the award of the contract. In addition, a business entity shall be disqualified if an owner, partner or shareholder controlling, directly or indirectly, 20% or more of the business entity, or an officer of the business entity has performed any Prohibited Act within five years prior to the award of the Contract.

THE APPLICANT HEREBY CERTIFIES THAT: The Applicant has read the provisions of Section A, Persons and Entities Subject to Disqualification, that the Applicant has not committed any Prohibited Act set forth in Section A, and that award of the Contract to the Applicant would not violate the provisions of such Section or of the Code.

B. BID-RIGGING OR BID ROTATING

THE APPLICANT HEREBY CERTIFIES THAT: *In accordance with 720 ILCS 5/33 E-11, neither the Applicant nor any Affiliated Entity is barred from award of this Contract as a result of a conviction for the violation of State laws prohibiting bid-rigging or bid rotating.*

C. DRUG FREE WORKPLACE ACT

THE APPLICANT HEREBY CERTIFIES THAT: The Applicant will provide a drug free workplace, as required by (30 ILCS 580/3).

D. DELINQUENCY IN PAYMENT OF TAXES

THE APPLICANT HEREBY CERTIFIES THAT: The Applicant is not an owner or a party responsible for the payment of any tax or fee administered by Cook County, by a local municipality, or by the Illinois Department of Revenue, which such tax or fee is delinquent, such as bar award of a contract or subcontract pursuant to the Code, Chapter 34, Section 34-171.

E. HUMAN RIGHTS ORDINANCE

No person who is a party to a contract with Cook County ("County") shall engage in unlawful discrimination or sexual harassment against any individual in the terms or conditions of employment, credit, public accommodations, housing, or provision of County facilities, services or programs (Code Chapter 42, Section 42-30 *et seq.*).

F. ILLINOIS HUMAN RIGHTS ACT

THE APPLICANT HEREBY CERTIFIES THAT: It is in compliance with the Illinois Human Rights Act (775 ILCS 5/2-105), and agrees to abide by the requirements of the Act as part of its contractual obligations.

G. INSPECTOR GENERAL (COOK COUNTY CODE, CHAPTER 34, SECTION 34-174 and Section 34-250)

The Applicant has not willfully failed to cooperate in an investigation by the Cook County Independent Inspector General or to report to the Independent Inspector General any and all information concerning conduct which they know to involve corruption, or other criminal activity, by another county employee or official, which concerns his or her office of employment or County related transaction.

The Applicant has reported directly and without any undue delay any suspected or known fraudulent activity in the County's Procurement process to the Office of the Cook County Inspector General.

H. CAMPAIGN CONTRIBUTIONS (COOK COUNTY CODE, CHAPTER 2, SECTION 2-585)

THE APPLICANT CERTIFIES THAT: It has read and shall comply with the Cook County's Ordinance concerning campaign contributions, which is codified at Chapter 2, Division 2, Subdivision II, Section 585, and can be read in its entirety at www.municode.com.

I. GIFT BAN, (COOK COUNTY CODE, CHAPTER 2, SECTION 2-574)

THE APPLICANT CERTIFIES THAT: It has read and shall comply with the Cook County's Ordinance concerning receiving and soliciting gifts and favors, which is codified at Chapter 2, Division 2, Subdivision II, Section 574, and can be read in its entirety at www.municode.com.

J. LIVING WAGE ORDINANCE PREFERENCE (COOK COUNTY CODE, CHAPTER 34, SECTION 34-160;

Unless expressly waived by the Cook County Board of Commissioners, the Code requires that a living wage must be paid to individuals employed by a Contractor which has a County Contract and by all subcontractors of such Contractor under a County Contract, throughout the duration of such County Contract. The amount of such living wage is annually by the Chief Financial Officer of the County, and shall be posted on the Chief Procurement Officer's website.

The term "Contract" as used in Section 4, I, of this EDS, specifically excludes contracts with the following:

- 1) Not-For Profit Organizations (defined as a corporation having tax exempt status under Section 501(C)(3) of the United State Internal Revenue Code and recognized under the Illinois State not-for -profit law);
- 2) Community Development Block Grants;
- 3) Cook County Works Department;
- 4) Sheriff's Work Alternative Program; and
- 5) Department of Correction inmates.

REQUIRED DISCLOSURES

1. DISCLOSURE OF LOBBYIST CONTACTS

List all persons that have made lobbying contacts on your behalf with respect to this contract:

Name	Address
	NONE
_____	_____
_____	_____

2. LOCAL BUSINESS INFORMATION STATEMENT

Local business means a Person, including a foreign corporation authorized to transact business in Illinois, having a bona fide establishment located within the County at which it is transacting business on the date when a Bid is submitted to the County, and which employs the majority of its regular, full-time work force within the County. A Joint Venture shall constitute a Local Business if one or more Persons that qualify as a "Local Business" hold interests totaling over 50 percent in the Joint Venture, even if the Joint Venture does not, at the time of the Bid submittal, have such a bona fide establishment within the County.

a) Is Applicant a "Local Business" as defined above?
Yes: X No: _____

b) If yes, list business addresses within Cook County:
 CAPITOL CEMENT COMPANY, INC.
 6231 NORTH PULASKI ROAD
 CHICAGO, IL 60646

c) Does Applicant employ the majority of its regular full-time workforce within Cook County?
Yes: X No: _____

3. THE CHILD SUPPORT ENFORCEMENT ORDINANCE (CODE, CHAPTER 34, SECTION 34-172)

Every Applicant for a County Privilege shall be in full compliance with any child support order before such Applicant is entitled to receive or renew a County Privilege. When delinquent child support exists, the County shall not issue or renew any County Privilege, and may revoke any County Privilege.

All Applicants are required to review the Cook County Affidavit of Child Support Obligations attached to this EDS (EDS-5) and complete the Affidavit, based on the instructions in the Affidavit.

4. REAL ESTATE OWNERSHIP DISCLOSURES.

The Applicant must indicate by checking the appropriate provision below and providing all required information that either:

a) The following is a complete list of all real estate owned by the Applicant in Cook County:

PERMANENT INDEX NUMBER(S): 13-03-216-028-0000 013-03-216-025-0000
13-03-216-027-0000 013-03-216-033-0000
13-03-216-026-0000
(ATTACH SHEET IF NECESSARY TO LIST ADDITIONAL INDEX
NUMBERS)

OR:

b) _____ The Applicant owns no real estate in Cook County.

5. EXCEPTIONS TO CERTIFICATIONS OR DISCLOSURES.

If the Applicant is unable to certify to any of the Certifications or any other statements contained in this EDS and not explained elsewhere in this EDS, the Applicant must explain below:

If the letters, "NA", the word "None" or "No Response" appears above, or if the space is left blank, it will be conclusively presumed that the Applicant certified to all Certifications and other statements contained in this EDS.

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT

The Cook County Code of Ordinances (§2-610 et seq.) requires that any Applicant for any County Action must disclose information concerning ownership interests in the Applicant. This Disclosure of Ownership Interest Statement must be completed with all information current as of the date this Statement is signed. Furthermore, this Statement must be kept current, by filing an amended Statement, until such time as the County Board or County Agency shall take action on the application. The information contained in this Statement will be maintained in a database and made available for public viewing.

If you are asked to list names, but there are no applicable names to list, you must state NONE. An incomplete Statement will be returned and any action regarding this contract will be delayed. A failure to fully comply with the ordinance may result in the action taken by the County Board or County Agency being voided.

"Applicant" means any Entity or person making an application to the County for any County Action.

"County Action" means any action by a County Agency, a County Department, or the County Board regarding an ordinance or ordinance amendment, a County Board approval, or other County agency approval, with respect to contracts, leases, or sale or purchase of real estate.

"Person" "Entity" or "Legal Entity" means a sole proprietorship, corporation, partnership, association, business trust, estate, two or more persons having a joint or common interest, trustee of a land trust, other commercial or legal entity or any beneficiary or beneficiaries thereof.

This Disclosure of Ownership Interest Statement must be submitted by :

- 1. An Applicant for County Action and
2. A Person that holds stock or a beneficial interest in the Applicant and is listed on the Applicant's Statement (a "Holder") must file a Statement and complete #1 only under Ownership Interest Declaration.

Please print or type responses clearly and legibly. Add additional pages if needed, being careful to identify each portion of the form to which each additional page refers.

This Statement is being made by the [X] Applicant or [] Stock/Beneficial Interest Holder

This Statement is an: [] Original Statement or [] Amended Statement

Identifying Information:

Name MIKE FARSHCHI

D/B/A: CAPITOL CEMENT COMPANY, INC. FEIN NO/SSN (LAST FOUR DIGITS): 9820

Street Address: 6231 NORTH PULASKI ROAD

City: CHICAGO State: IL Zip Code: 60646

Phone No.: 773-478-2200 Fax Number: 773-478-4646 Email: MIKE@CAPITOLCEMENTCO.COM

Cook County Business Registration Number: (Sole Proprietor, Joint Venture Partnership)

Corporate File Number (if applicable):

Form of Legal Entity:

[] Sole Proprietor [] Partnership [X] Corporation [] Trustee of Land Trust

[] Business Trust [] Estate [] Association [] Joint Venture

[] Other (describe)

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT

The Cook County Code of Ordinances (§2-610 et seq.) requires that any Applicant for any County Action must disclose information concerning ownership interests in the Applicant. This Disclosure of Ownership Interest Statement must be completed with all information current as of the date this Statement is signed. Furthermore, this Statement must be kept current, by filing an amended Statement, until such time as the County Board or County Agency shall take action on the application. The information contained in this Statement will be maintained in a database and made available for public viewing.

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"County Action" means any action by a County Agency, a County Department, or the County Board regarding an ordinance or ordinance amendment, a County Board approval, or other County agency approval, with respect to contracts, leases, or sale or purchase of real estate.

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- 1. An Applicant for County Action and
2. A Person that holds stock or a beneficial interest in the Applicant and is listed on the Applicant's Statement (a "Holder") must file a Statement and complete #1 only under Ownership Interest Declaration.

Please print or type responses clearly and legibly. Add additional pages if needed, being careful to identify each portion of the form to which each additional page refers.

This Statement is being made by the [X] Applicant or [] Stock/Beneficial Interest Holder

This Statement is an: [] Original Statement or [] Amended Statement

Identifying Information:

Name MIKE FARSHCHI

D/B/A: CAPITOL CEMENT COMPANY, INC. FEIN NO/SSN (LAST FOUR DIGITS):

Street Address: 6231 NORTH PULASKI ROAD

City: CHICAGO State: IL Zip Code: 60646

Phone No.: 773-478-2200 Fax Number: 773-478-4646 Email: MIKE@CAPITOLCEMENTCO.COM

Cook County Business Registration Number: (Sole Proprietor, Joint Venture Partnership)

Corporate File Number (if applicable):

Form of Legal Entity:

[] Sole Proprietor [] Partnership [X] Corporation [] Trustee of Land Trust

[] Business Trust [] Estate [] Association [] Joint Venture

[] Other (describe):

Ownership Interest Declaration:

1. List the name(s), address, and percent ownership of each Person having a legal or beneficial interest (including ownership) of more than five percent (5%) in the Applicant/Holder.

Name	Address	Percentage Interest in Applicant/Holder
MIKE FARSHCHI	6231 NORTH PULASKI ROAD CHICAGO, IL 60646	75%
DAVID SLONIM	6231 NORTH PULASKI ROAD CHICAGO, IL 60646	25%

2. If the interest of any Person listed in (1) above is held as an agent or agents, or a nominee or nominees, list the name and address of the principal on whose behalf the interest is held.

Name of Agent/Nominee	Name of Principal	Principal's Address

3. Is the Applicant constructively controlled by another person or Legal Entity? Yes No
 If yes, state the name, address and percentage of beneficial interest of such person, and the relationship under which such control is being or may be exercised.

Name	Address	Percentage of Beneficial Interest	Relationship

Corporate Officers, Members and Partners Information:

For all corporations, list the names, addresses, and terms for all corporate officers. For all limited liability companies, list the names, addresses for all members. For all partnerships and joint ventures, list the names, addresses, for each partner or joint venture.

Name	Address	Title (specify title of Office, or whether manager or partner/joint venture)	Term of Office
MIKE FARSHCHI	6231 N. PULASKI RD. CHICAGO, IL 60646	PRESIDENT	N/A
DAN MELNYK	6231 N. PULASKI RD. CHICAGO, IL 60646	VICE PRESIDENT	N/A
DAVID SLONIM	6231 N. PULASKI RD. CHICAGO, IL 60646	VICE PRESIDENT	N/A

Declaration (check the applicable box):

- I state under oath that the Applicant has withheld no disclosure as to ownership interest in the Applicant nor reserved any information, data or plan as to the intended use or purpose for which the Applicant seeks County Board or other County Agency action.
- I state under oath that the Holder has withheld no disclosure as to ownership interest nor reserved any information required to be disclosed.

SECTION 8
COOK COUNTY SIGNATURE PAGE

ON BEHALF OF THE COUNTY OF COOK, A BODY POLITIC AND CORPORATE OF THE STATE OF ILLINOIS, THIS CONTRACT IS HEREBY EXECUTED BY:

John E. Mc

COOK COUNTY CHIEF PROCUREMENT OFFICER

DATED AT CHICAGO, ILLINOIS THIS 7 DAY OF August, 2015

IN THE CASE OF A BID/ PROPOSAL/RESPONSE, THE COUNTY HEREBY ACCEPTS:

THE FOREGOING BID/PROPOSAL/RESPONSE AS IDENTIFIED IN THE CONTRACT DOCUMENTS FOR CONTRACT NUMBER

1555-14616

OR

ITEM(S), SECTION(S), PART(S): Section 02-W5208-02-RP

TOTAL AMOUNT OF CONTRACT: \$ 9,487,711.07
(DOLLARS AND CENTS)

FUND CHARGEABLE: 5300.562140.5211

APPROVED AS TO FORM

Julia Orin

ASSISTANT STATE'S ATTORNEY
(Required on contracts over \$1,000,000.00)

APPROVED BY BOARD OF
COOK COUNTY COMMISSIONERS

JUL 29 2015

Insert

IDOT Certificate of Eligibility
Section 9



Illinois Department of Transportation

Certificate of Eligibility

Contractor No 0801

Capitol Cement Co., Inc.
6231-33 North Pulaski Road Chicago, IL 60646

WHO HAS FILED WITH THE DEPARTMENT AN APPLICATION FOR PREQUALIFICATION STATEMENT OF EXPERIENCE, EQUIPMENT AND FINANCIAL CONDITION IS HEREBY QUALIFIED TO BID AT ANY OF DEPARTMENT OF TRANSPORTATION LETTINGS IN THE CLASSES OF WORK AND WITHIN THE AMOUNT AND OTHER LIMITATIONS OF EACH CLASSIFICATION, AS LISTED BELOW, FOR SUCH PERIOD AS THE UNCOMPLETED WORK FROM ALL SOURCES DOES NOT EXCEED \$101,737,000.00

001	EARTHWORK	\$4,175,000
002	PCC PAVING	\$9,825,000
005	HMA PAVING	\$850,000
012	DRAINAGE	\$3,725,000
017	CONCRETE CONSTRUCTION	\$2,950,000
031	PAVT. TEXTUR. & SURF. REM.	\$250,000
032	COLD MILL, PLAN. & ROTOMILL	\$700,000
034	DEMOLITION	\$150,000
08A	AGGREGATE BASES & SURF. (A)	\$2,025,000
09A	HIGHWAY STRUCTURES	\$1,275,000

THIS CERTIFICATE OF ELIGIBILITY IS VALID FROM 7/30/2014 TO 6/30/2015 INCLUSIVE, AND SUPERSEDES ANY CERTIFICATE PREVIOUSLY ISSUED, BUT IS SUBJECT TO REVISION OR REVOCATION, IF AND WHEN CHANGES IN THE FINANCIAL CONDITION OF THE CONTRACTING FIRM OR OTHER FACTS JUSTIFY SUCH REVISIONS OR REVOCATION. ISSUED AT SPRINGFIELD, ILLINOIS ON 7/30/2014.

Jim Kell

Interim Engineer of Construction

Insert

IDOT Certificate of Availability

Section 10



Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

Affidavit of Availability
For the Letting of 5/13/2015
(Letting date)

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	1	2	3	4	5	
Contract Number	09-00183-00-FP	Asland-Pershing	3-WPA Streets	1388 13051	B-1-633	
Contract With	Harvey	CDOT	CDOT	Cook County	CDOT	
Estimated Completion Date	Nov 2015	JUNE 2015	May 2015	Nov 2015	Nov 2015	
Total Contract Price	\$4,969,883.46	\$11,335,270.24	\$9,000,000.00	\$18,728,293.00	\$31,813,921.45	Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	\$4,530,000.00	\$150,000.00	\$200,000.00	\$5,600,000.00	\$26,850,000.00	\$37,330,000.00
Uncompleted Dollar Value if Firm is the Subcontractor						\$0.00
Total Value of All Work						\$37,330,000.00

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

						Accumulated Totals
Earthwork	\$600,000.00		\$20,000.00	\$300,000.00	\$1,800,000.00	\$2,720,000.00
Portland Cement Concrete Paving	\$1,300,000.00		\$70,000.00	\$1,500,000.00	\$1,150,000.00	\$4,020,000.00
HMA Plant Mix						\$0.00
HMA Paving						\$0.00
Clean & Seal Cracks/Joints						\$0.00
Aggregate Bases & Surfaces	\$500,000.00		\$10,000.00	\$700,000.00	\$500,000.00	\$1,710,000.00
Highway,R.R. and Waterway Structures						\$0.00
Drainage	\$100,000.00	\$0.00	\$0.00	\$200,000.00	\$2,000,000.00	\$2,300,000.00
Electrical						\$0.00
Cover and Seal Coats						\$0.00
Concrete Construction	\$400,000.00		\$10,000.00	\$150,000.00	\$5,700,000.00	\$6,260,000.00
Landscaping		\$20,000.00				\$20,000.00
Fencing	\$20,000.00					\$20,000.00
Guardrail						\$0.00
Painting						\$0.00
Signing		\$10,000.00	\$10,000.00	\$30,000.00		\$50,000.00
Cold Milling, Planning & Rotomilling	\$200,000.00			\$30,000.00	\$400,000.00	\$630,000.00
Demolition	\$100,000.00			\$20,000.00	\$400,000.00	\$520,000.00
Pavement Markings (Paint)				\$20,000.00		\$20,000.00
Other Construction (List)	\$60,000.00	\$20,000.00	\$0.00	\$150,000.00	\$700,000.00	\$930,000.00
						\$0.00
						\$0.00
Totals	\$3,280,000.00	\$50,000.00	\$120,000.00	\$3,100,000.00	\$12,650,000.00	\$19,200,000.00

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code". Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others

For each contract described in Part I, list all the work you have subcontracted to others.

	1 09-00183-00-FP	2 Asland-Pershing	3 3-WPA Streets	4 1388 13051	5 B-1-633
Subcontractor	Diaz	Reliable Contractors	Areatha	Natural Creations	GLASS MGT
Type of Work	Landscape	Water Main	Concrete	Landscape	GLAZING
Subcontract Price	130,000.00	1,500,000.00	1,000,000.00	370,000.00	3,200,000.00
Amount Uncompleted	130,000.00	0.00	40,000.00	260,000.00	3,200,000.00
Subcontractor	H&H	City Lights	Great Lakes	Hecker	HECKER+GIM
Type of Work	Electric	Electric	Landscape	Electric	ELECTRIC
Subcontract Price	550,000.00	1,010,000.00	200,000.00	2,500,000.00	4,600,000.00
Amount Uncompleted	550,000.00	0.00	10,000.00	1,600,000.00	4,600,000.00
Subcontractor	Metromex	Turf Care	Metromex	Metromex	BCBM
Type of Work	Asphalt	Landscape	Asphalt	Asphalt	CANOPY
Subcontract Price	300,000.00	270,000.00	1,000,000.00	100,000.00	2,700,000.00
Amount Uncompleted	300,000.00	100,000.00	30,000.00	90,000.00	2,700,000.00
Subcontractor	Areatha	Pan Oceanic		Reliable Contractors	METROMEX
Type of Work	Concrete	Sewer		Sewer & Water Main	ASPHALT
Subcontract Price	120,000.00	850,000.00		5,170,000.00	2,000,000.00
Amount Uncompleted	70,000.00	0.00		200,000.00	2,000,000.00
Subcontractor	TSI	Bigane		Areatha	ROADSAFE
Type of Work	Traffic	Asphalt		Concrete	VARIOUS
Subcontract Price	300,000.00	800,000.00		860,000.00	700,000.00
Amount Uncompleted	200,000.00	0.00		350,000.00	700,000.00
Subcontractor					INTL MARBLE
Type of Work					GRANITE
Subcontract Price					800,000.00
Amount Uncompleted					800,000.00
Subcontractor					WORK ZONE SAFETY
Type of Work					TRAFFIC
Subcontract Price					300,000.00
Amount Uncompleted					200,000.00
Total Uncompleted	1,250,000.00	100,000.00	80,000.00	2,500,000.00	14,200,000.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

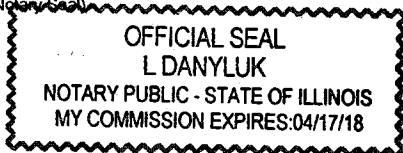
Subscribed and sworn to before me

this 12th day of May, 2015.

[Signature]
Notary Public

My commission expires: 4/17/18

(Notary Seal)



Type or Print Name DAVID SLONIM Vice President
Officer or Director Title

Signed [Signature]

Company Capitol Cement Company, Inc.

Address 6231 N. Pulaski Road
Chicago IL 60646



**Illinois Department
of Transportation**

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

Affidavit of Availability
For the Letting of 5/13/2015
(Letting date)

Instructions: Complete this form by either typing or using black ink.
"Authorization to Bid" will not be issued unless both sides of this form are
completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	6	5	6	7	8	
Contract Number	13-23932-01-RP					
Contract With	Cook County					
Estimated Completion Date	July 2015					
Total Contract Price	\$1,747,341.40					Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	\$1,670,000.00					39,000,000.00
Uncompleted Dollar Value if Firm is the Subcontractor						0.00
Total Value of All Work						39,000,000.00

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

						Accumulated Totals
Earthwork	400,000.00					3,120,000.00
Portland Cement Concrete Paving	500,000.00					4,520,000.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						1,710,000.00
Highway,R.R. and Waterway Structures						0.00
Drainage	150,000.00					2,450,000.00
Electrical						0.00
Cover and Seal Coats						0.00
Concrete Construction						6,260,000.00
Landscaping	10,000.00					30,000.00
Fencing						20,000.00
Guardrail						0.00
Painting						0.00
Signing						50,000.00
Cold Milling, Planning & Rotomilling						630,000.00
Demolition	200,000.00					720,000.00
Pavement Markings (Paint)						20,000.00
Other Construction (List)						930,000.00
						0.00
						0.00
Totals	1,260,000.00	0.00	0.00	0.00	0.00	20,460,000.00

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code". Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others

For each contract described in Part I, list all the work you have subcontracted to others.

	6	5	6	7	8
	13-23932-01-RP				
Subcontractor	SMITH				
Type of Work	TRAFFIC				
Subcontract Price	120,000.00				
Amount Uncompleted	120,000.00				
Subcontractor	GARCES				
Type of Work	WATER				
Subcontract Price	230,000.00				
Amount Uncompleted	230,000.00				
Subcontractor	MARK. SPEC.				
Type of Work	STRIPING				
Subcontract Price	6,000.00				
Amount Uncompleted	6,000.00				
Subcontractor	JASSO				
Type of Work	TRUCK				
Subcontract Price	54000				
Amount Uncompleted	54,000.00				
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	410,000.00	0.00	0.00	0.00	0.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

Subscribed and sworn to before me

this 12th day of May, 2015.


 Notary Public

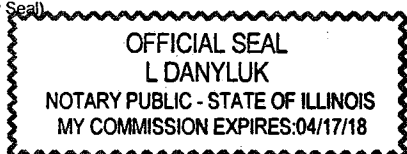
Type or Print Name DAVID SLONIM Vice President
Officer or Director Title

Signed David Slonim

My commission expires: 4/17/18

Company Capitol Cement Company, Inc.
 Address 6231 N. Pulaski Road
Chicago IL 60646

(Notary Seal)



**CONTRACTOR'S
CERTIFICATION CONCERNING LABOR STANDARDS
AND
PREVAILING WAGE REUIREMENTS**

To Contractor:

Date: JULY 1, 2015
 Project Number: M-4003(379)
 Project Name
CENTER STREET 171ST STREET TO 159TH STREET

1. The undersigned, having executed a contract with the County of Cook for the construction of the above identified project, acknowledges that:

- (a) The Labor Standards provisions of the Contract for Construction are included in the aforesaid contract.
- (b) Correction of any infractions of the aforesaid conditions, including infractions by any of his Subcontractors and any lower tier subcontractors, is his responsibility.

2. He certifies that:

- (b) Neither he nor any firm, corporation, partnership or association in which he has a substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29CFR Part 5) or pursuant to the Section 3(a) of the Davis-Bacon Act, as amended [40 U.S.C. 276a-2(a)]
- (c) No part of the aforementioned Contract has been or will be subcontracted to any Subcontractor if such Subcontractor or any firm, corporation, partnership or association in which such Subcontractor has a substantial interest is designated as an Ineligible Contractor pursuant to any of the aforementioned regulatory or statutory provisions.

3. He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his Subcontractor any lower tier subcontractor, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wages Requirements executed by the Subcontractors.

4. He certifies that:

(a) The legal name and the business address of the undersigned are:

- (b) The undersigned is (check one):
- Sole Proprietorship
 - Partnership
 - Corporation
 - Other Organization (Describe)

(c) The name, title and address of the owner, partners or officers of the undersigned are:

NAME	TITLE	ADDRESS
MIKE FARSHCHI	PRESIDENT	6231 NORTH PULASKI RD. CHICAGO, IL 60646
DAVID SLONIM	VICE PRESIDENT	6231 NORTH PULASKI RD., CHICAGO, IL 60646
DAN MELNYK	VICE PRESIDENT	6231 NORTH PULASKI RD., CHICAGO, IL 60646

(d) The name and address of all other persons, both natural and corporate, having a substantial interest in the undersigned, and the nature of the interest are (if none, so state):

NAME	ADDRESS	NATURE OF INTEREST
------	---------	--------------------

NONE

(e) The names and addresses and trade classifications of all other building construction contractors in which the undersigned has a substantial interest is (if none, so state):

NAME	ADDRESS	TRADE CLASSIFICATION
------	---------	----------------------

NONE

DATE 7/1/2015

CAPITOL CEMENT CO., INC.

CONTRACTOR

x David Sloum
SIGNATURE

**SUBCONTRACTOR'S CERTIFICATION CONCERNING
LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**

To Contractor:

Date: JULY 1, 2015
Project Number: M-4003(379)
Project Name: CENTER STREET 171ST STREET TO 159TH STREET

1. The undersigned, having executed a contract with CAPITOL CEMENT CO., INC.
(Contractor)
CABO CONSTRUCTION for SEWER &
Nature of Work)
WATER in the amount of \$ 2,842,171.00 in the construction of the above-identified project,
certifies that:

- (a) The Labor Standards provisions of the Contract for Construction are included in the aforesaid contract.
- (b) Neither he nor any firm, corporation, partnership or association in which he has a substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29CFR Part 5) or pursuant to the Section 2(a) of the Davis-Bacon Act, as amended (40 U.S.C. 276a-2(a)).
- (c) No part of the aforementioned Contract has been or will be subcontracted to any Subcontractor if such Subcontractor or any firm, corporation, partnership or association in which such Subcontractor has a substantial interest is designated as an ineligible Contractor pursuant to any of the aforementioned regulatory or statutory provisions.

2. He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his Subcontractor any lower tier subcontractor, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wages Requirements executed by the Subcontractors.

3. The workmen will report for duty on 9-1-15
(Date)

4. He certifies that:

(a) The legal name and the business address of the undersigned are:

(b) The undersigned is (check one):
 Sole Proprietorship
 Partnership
 Corporation
 Other Organization (Describe)

(c) The name and address of the owner, partners or officers of the undersigned are:

NAME	TITLE	ADDRESS
<u>FRANK Cebello</u>	<u>President</u>	<u>17W415 Karbun Oakbrook, IL 60181</u>
<u>Robert Bohac</u>	<u>Vice President</u>	<u>405W 67th St Downers Grove IL 60516</u>

DATE 7/1/2015

SUBCONTRACTOR
x [Signature]
SIGNATURE

**SUBCONTRACTOR'S CERTIFICATION CONCERNING
LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**

To Contractor:

Date: JULY 1, 2015

Project Number: M-4003(379)

Project Name: CENTER STREET 171ST STREET TO 159TH STREET

- 1. The undersigned, having executed a contract with CAPITOL CEMENT CO., INC.
(Contractor)
METROMEX CONTRACTORS for ASPHALT
(Nature of Work)

_____ in the amount of \$ 213,160.00 in the construction of the above-identified project, certifies that:

- (a) The Labor Standards provisions of the Contract for Construction are included in the aforesaid contract.
 - (b) Neither he nor any firm, corporation, partnership or association in which he has a substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29CFR Part 5) or pursuant to the Section 3(a) of the Davis-Bacon Act, as amended (40 U.S.C. 276a-2(a)).
 - (c) No part of the aforementioned Contract has been or will be subcontracted to any Subcontractor if such Subcontractor or any firm, corporation, partnership or association in which such Subcontractor has a substantial interest is designated as an ineligible Contractor pursuant to any of the aforementioned regulatory or statutory provisions.
- 2. He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his Subcontractor any lower tier subcontractor, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wages Requirements executed by the Subcontractors.
 - 3. The workmen will report for duty on _____
(Date)

4. He certifies that:

- (a) The legal name and the business address of the undersigned are:
- (b) The undersigned is (check one):
 - Sole Proprietorship
 - Partnership
 - Corporation
 - Other Organization (Describe)
- (c) The name and address of the owner, partners or officers of the undersigned are:

NAME	TITLE	ADDRESS
<u>FEDERICO ROJAS</u>	<u>PRESIDENT</u>	<u>9550 SARGENT DR. SUITE 100</u>
		<u>MCCOOK, IL 60525</u>

DATE 7/1/2015

SUBCONTRACTOR

X [Signature]
SIGNATURE

**SUBCONTRACTOR'S CERTIFICATION CONCERNING
LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**

To Contractor:

Date: 5/13/2015
Project Number: M-4003 (379)
Project Name Center Street

1. The undersigned, having executed a contract with CAPITOL CEMENT CO., INC.
(Contractor)
MIDWEST FENCE for Guardrail
Nature of Work)

_____ In the amount of \$ 202,727.50 In the construction of the above-identified project, certifies that:

- (a) The Labor Standards provisions of the Contract for Construction are included in the aforesaid contract.
 - (b) Neither he nor any firm, corporation, partnership or association in which he has a substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29CFR Part 5) or pursuant to the Section 3(a) of the Davis-Bacon Act, as amended [40 U.S.C. 276a-2(a)]
 - (c) No part of the aforementioned Contract has been or will be subcontracted to any Subcontractor if such Subcontractor or any firm, corporation, partnership or association in which such Subcontractor has a substantial interest is designated as an ineligible Contractor pursuant to any of the aforementioned regulatory or statutory provisions.
2. He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his Subcontractor any lower tier subcontractor, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wages Requirements executed by the Subcontractors.
 3. The workmen will report for duty on Per Schedule
(Date)

4. He certifies that:

(a) The legal name and the business address of the undersigned are:

(b) The undersigned is (check one):
 Sole Proprietorship
 Partnership
 Corporation
 Other Organization (Describe)

(c) The name and address of the owner, partners or officers of the undersigned are:

NAME	TITLE	ADDRESS
<u>Timothy M Bell,</u>	<u>Pres.</u>	<u>900 N. Kedzie Ave Chicago, IL 60651</u>
<u>Everett J Bell,</u>	<u>Scty.</u>	<u>900 N. Kedzie Ave Chicago, IL 60651</u>

DATE _____

SUBCONTRACTOR

X *Timothy M Bell*
SIGNATURE

**SUBCONTRACTOR'S CERTIFICATION CONCERNING
LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**

To Contractor:

Date: JULY 1, 2015
 Project Number: M-4003(379)
 Project Name: CENTER STREET 171ST STREET TO 159TH STREET

1. The undersigned, having executed a contract with CAPITOL CEMENT CO., INC.
 (Contractor)
SMITH MAINTENANCE for TRAFFIC CONTROL &
 (Nature of Work)
SIGNAGE in the amount of \$ 71,286.00 in the construction of the above-identified project,
 certifies that:

- (a) The Labor Standards provisions of the Contract for Construction are included in the aforesaid contract.
- (b) Neither he nor any firm, corporation, partnership or association in which he has a substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29CFR Part 5) or pursuant to the Section 3(a) of the Davis-Bacon Act, as amended [40 U.S.C. 276a-2(a)]
- (c) No part of the aforementioned Contract has been or will be subcontracted to any Subcontractor if such Subcontractor or any firm, corporation, partnership or association in which such Subcontractor has a substantial interest is designated as an ineligible Contractor pursuant to any of the aforementioned regulatory or statutory provisions.

2. He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his Subcontractor any lower tier subcontractor, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wages Requirements executed by the Subcontractors.

3. The workmen will report for duty on _____
 (Date)

4. He certifies that:

(a) The legal name and the business address of the undersigned are:

(b) The undersigned is (check one):
 _____ Sole Proprietorship
 _____ Partnership
 Corporation
 _____ Other Organization (Describe)

(c) The name and address of the owner, partners or officers of the undersigned are:

NAME	TITLE	ADDRESS
Michael Smith,	President	205 W Randolph St., Ste. 925
Chicago, IL 60606		

DATE 7/1/2015

SUBCONTRACTOR

SIGNATURE

SUBCONTRACTOR'S CERTIFICATION CONCERNING LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS

To Contractor:

Date: JULY 1, 2015

Project Number: M-4003(379)

Project Name: CENTER STREET 171ST STREET TO 159TH STREET

- 1. The undersigned, having executed a contract with CAPITOL CEMENT CO., INC.
(Contractor)
TRAFIC SERVICE, INC. for TRAFFIC CONTROL
(Nature of Work)

_____ in the amount of \$175,398.00 in the construction of the above-identified project, certifies that:

- (a) The Labor Standards provisions of the Contract for Construction are included in the aforesaid contract.
 - (b) Neither he nor any firm, corporation, partnership or association in which he has a substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29CFR Part 5) or pursuant to the Section 2(a) of the Davis-Bacon Act, as amended (40 U.S.C. 276a-2(a)).
 - (c) No part of the aforementioned Contract has been or will be subcontracted to any Subcontractor if such Subcontractor or any firm, corporation, partnership or association in which such Subcontractor has a substantial interest is designated as an ineligible Contractor pursuant to any of the aforementioned regulatory or statutory provisions.
- 2. He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his Subcontractor any lower tier subcontractor, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wages Requirements executed by the Subcontractors.
 - 3. The workmen will report for duty on _____
(Date)
 - 4. He certifies that:

(a) The legal name and the business address of the undersigned are:

(b) The undersigned is (check one):

- Sole Proprietorship
- Partnership
- Corporation
- Other Organization (Describe)

(c) The name and address of the owner, partners or officers of the undersigned are:

NAME	TITLE	ADDRESS
<u>Michael Traficanti</u>	<u>president</u>	<u>Bartlett.</u>

DATE 7/1/2015

SUBCONTRACTOR

X Michael N. Traficanti
SIGNATURE

**SUBCONTRACTOR'S CERTIFICATION CONCERNING
LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**
(Section 6)

To Contractor:

Date: July 6, 2015
Project Number: M-4003(379)
Project Name Center Street 171st to 159th Street

- The undersigned, if awarded a contract with Capitol Cement Co., Inc.
(Contractor)
Roadsafe Traffic Systems for Pavement Markings
Nature of Work)

_____ in the amount of \$ 63,596.00 in the construction of the above-identified project, certifies that:

- The Labor Standards provisions of the Contract for Construction are included in the aforesaid contract.
 - Neither he nor any firm, corporation, partnership or association in which he has a substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29CFR Part 5) or pursuant to the Section 3(a) of the Davis-Bacon Act, as amended [40 U.S.C. 276a-2(a)]
 - No part of the aforementioned Contract has been or will be subcontracted to any Subcontractor if such Subcontractor or any firm, corporation, partnership or association in which such Subcontractor has a substantial interest is designated as an ineligible Contractor pursuant to any of the aforementioned regulatory or statutory provisions.
- He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his Subcontractor any lower tier subcontractor, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wages Requirements executed by the Subcontractors.

- The workmen will report for duty on Per Contract
(Date)

RoadSafe Traffic Systems, Inc.
12225 Disk Drive
Romeoville, IL. 60446

- He certifies that:

- The legal name and the business address of the undersigned are:
- The undersigned is (check one):
 Sole Proprietorship
 Partnership
 Corporation
 Other Organization (Describe)
- The name and address of the owner, partners or officers of the undersigned are:

NAME	TITLE	ADDRESS
<u>David Meirik</u>	<u>President</u>	<u>CEO - 8750 W. Bryn Mawr, Chicago IL 60631</u>
<u>Brendan Kissane</u>	<u>CEO</u>	<u>"</u>
<u>Margaret Bennett</u>	<u>Secretary</u>	<u>"</u>

DATE 7/6/15

SUBCONTRACTOR

X [Signature]
SIGNATURE



COOK COUNTY DEPARTMENT OF HIGHWAYS

DBE Participation Statement

(1) Policy

It is public policy that disadvantaged businesses as defined in 49 CFR Part 26 and the Special Provision shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal or State funds. Consequently the requirements of 49 CFR Part 26 apply to this contract.

(2) Obligation

The contractor agrees to ensure that disadvantaged businesses as defined in 49 CFR Part 26 and the Special Provision have the maximum opportunity to participate in the performance of contracts or subcontracts financed in whole or in part with Federal or State funds. The contractor shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 and the Special Provision to ensure that said businesses have the maximum opportunity to compete for and perform under this contract. The contractor shall not discriminate on the basis of race, color, national origin or sex in the award and performance of contracts.

(3) Project and Bid Identification

Complete the following information concerning the project and bid:

Route W52
Section 02-W5208-02-RP
Project CENTER STREET - 171ST TO 159TH STREET
County COOK
Letting Date 5/13/2015

Total Bid 9,487,711.⁰⁷
Contract DBE Goal 38.5 (Percent) 3,653,180.⁶¹ (Dollar Amount)

(4) Assurance

I, acting in my capacity as an officer of the undersigned bidder (or bidders if a joint venture), hereby assure the Department that on this project my company: (check one)

Meets or exceeds contract award goals and has provided documented participation as follows:
Disadvantaged Business Participation 38.5 percent

Attached are the signed participation statements, forms SBE 2025, required by the Special Provision evidencing availability and use of each business participating in this plan and assuring that each business will perform a commercially useful function in the work of the contract.

Failed to meet contract award goals and has included good faith effort documentation to meet the goals and that my company has provided participation as follows:

Disadvantaged Business Participation _____ percent

The contract goals should be accordingly modified or waived. Attached is all information required by the Special Provision in support of this request including good faith effort. Also attached are the signed participation statements, forms SBE 2025, required by the Special Provision evidencing availability and use of each business participating in this plan and assuring that each business will perform a commercially useful function in the work of the contract.

CAPITOL CEMENT COMPANY, INC.

By David Sloun
Title VICE PRESIDENT

Date MAY 13, 2015

The "as read" Low Bidder is required to comply with the Special Provision.
Submit only one utilization plan for each project. The utilization plan shall be submitted in accordance with the special provision.
Cook County Department of Highways
Contract Documents
65 West Washington Street - Suite 2208
Chicago, IL 60602

The Cook County Highway Department is requesting disclosure of information that is necessary to accomplish the purpose as stated under Item and Project No. Disclosure of this information is REQUIRED. Failure to provide any information will result in the contract not being awarded. This form has been approved by the State Forms Management Center.

COOK COUNTY LETTER OF INTENT
(Section 2)

FROM DBE TO PERFORM AS SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT

Contract Title & Number: CENTER STREET , 171ST STREET TO 159 STREET

From: CABO CONSTRUCTION CORP. (DBE Firm)

To: CAPITOL CEMENT COMPANY, INC (Bidder/Proposer Firm) and the County of Cook

The Undersigned is prepared to provide the following services, supplies and project in connection with the above named contract (the "Contract"). Each service performed and for item supplied will be detailed under Description of Service/Supply and Project with all services/items listed under Fee/Cost to equal the full dollar amount of the Letter of Intent. This form must be completed for each disadvantaged business participating in the Utilization Plan. Attach this form to the Utilization Plan form. If additional space is needed, complete an additional form for the firm.

Pay Item No.	Description	Quantity	Fee/Cost	
	SEWER		\$ 1,382,215.30	%
	WATER		\$ 903,935.70	%
			\$	%
	See Attached for Details			
			Total \$ 2,286,151.00	%

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/Supply and Fee/Cost were completed.

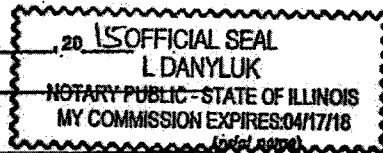
Upon Penalty of perjury, I ROBERT BOHAC (print name) the VICE PRESIDENT (Title) and duly authorized representative of the CABO CONSTRUCTION CORP (DBE Firm) affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ 2,286,151.00 which represents the above indicated total percentage _____ % for the contract amount \$ _____

Robert Bohac (Signature of affiant) 5, 11, 15 (Date)

Subscribed and sworn to before me this 11 day of MAY, 2015

[Signature] (Notary's Signature)

(Notary Seal)



Upon penalty of perjury, DAVID SLONIM

the VICE PRESIDENT (Title) and duly authorized

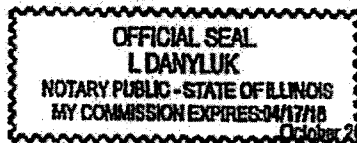
representative of CAPITOL CEMENT COMPANY, INC (Bidder/Proposer Firm), affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ _____, which represents the above indicated total percentage _____ % for the contract amount \$ _____

David Slonim (Signature of affiant) 05 / 11 / 2015 (Date)

Subscribed and sworn to before me this 11 day of MAY, 2015

[Signature] (Notary's Signature)

(Notary Seal)



ITEM NO.	UNIT	PAY ITEM	QUANTITY	UNIT COST	TOTAL COST
53	CU YD	TRENCH BACKFILL	5500	\$ 21.15	\$ 116,440.00
54	FOOT	EXPLORATION TRENCH 52 DEPTH"	500	\$ 58.40	\$ 29,200.00
55	EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	0	\$ 907.55	\$ -
56	EACH	CONCRETE END SECTION, STANDARD 542001, 15", 1:2	0	\$ 1,938.15	\$ -
57	EACH	CONCRETE END SECTION, STANDARD 542001, 18", 1:2	0	\$ 2,327.00	\$ -
58	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 12 IN.	0	\$ 76.30	\$ -
59	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 15 IN.	165	\$ 58.70	\$ 9,685.50
60	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 18 IN.	77	\$ 66.85	\$ 5,147.45
61	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 12 IN.	0	\$ 81.45	\$ -
62	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 15 IN.	0	\$ 91.00	\$ -
63	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 18 IN.	350	\$ 84.20	\$ 29,470.00
64	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 24 IN.	593	\$ 109.05	\$ 64,639.65
65	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 30 IN.	601	\$ 129.55	\$ 77,859.55
66	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 36 IN.	701	\$ 200.85	\$ 140,795.85
67	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 42 IN.	832	\$ 211.90	\$ 176,300.80
68	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 48 IN.	1243	\$ 242.55	\$ 301,469.65
69	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS IV) 54 IN.	1175	\$ 250.95	\$ 294,866.25
70	FOOT	STORM SEWER REMOVAL, 6"	79	\$ 20.30	\$ 1,603.70
71	FOOT	STORM SEWER REMOVAL, 10"	28	\$ 31.90	\$ 893.20
72	FOOT	STORM SEWER REMOVAL, 12"	250	\$ 43.75	\$ 10,937.50
73	FOOT	STORM SEWER REMOVAL, 15"	473	\$ 43.05	\$ 20,362.65
74	FOOT	STORM SEWER REMOVAL, 18"	100	\$ 67.10	\$ 6,710.00
75	FOOT	STORM SEWER REMOVAL, 24"	238	\$ 68.60	\$ 16,326.80
76	FOOT	STORM SEWER REMOVAL, 36"	53	\$ 81.50	\$ 4,319.50
77	FOOT	STORM SEWER REMOVAL, 54"	105	\$ 109.50	\$ 11,497.50
78	FOOT	BORING AND JACKING STORM SEWERS, 54 IN.	79	\$ 3,262.95	\$ 257,773.05
83	FOOT	PIPE UNDERDRAINS, PERFORATED POLYVINYL CHLORIDE PIPE, 6 IN.	0	\$ 27.60	\$ -
84	EACH	CATCH BASINS, TYPE A2, 4 FT. DIA WITH FRAMES AND GRATES	0	\$ 2,730.85	\$ -
85	EACH	CATCH BASINS, TYPE C, 2 FT. DIA WITH FRAMES AND GRATES	0	\$ 1,222.55	\$ -
86	EACH	MANHOLES, TYPE A, 4 FT. DIA WITH FRAMES AND GRATES	4	\$ 2,474.40	\$ 9,897.60
87	EACH	MANHOLES, TYPE A, 5 FT. DIA WITH FRAMES AND GRATES	9	\$ 4,225.05	\$ 38,025.45
88	EACH	MANHOLES, TYPE A, 6 FT. DIA WITH FRAMES AND GRATES	8	\$ 8,151.35	\$ 65,210.80
89	EACH	MANHOLES, TYPE A, 7 FT. DIA WITH FRAMES AND GRATES	2	\$ 11,640.90	\$ 23,281.80
90	EACH	MANHOLES, TYPE A, 8 FT. DIA WITH FRAMES AND GRATES	1	\$ 14,641.00	\$ 14,641.00
91	EACH	MANHOLES, PRECAST T" (48 IN. DIA STORM SEWER) WITH FRAMES AND GRATES"	2	\$ 2,842.70	\$ 5,685.40
92	EACH	MANHOLES, PRECAST T" (54 IN. DIA STORM SEWER) WITH FRAMES AND GRATES"	3	\$ 4,517.60	\$ 13,552.80
93	EACH	INLETS, TYPE A, 2 FT. DIA WITH FRAMES AND GRATES	0	\$ 1,336.50	\$ -
94	EACH	CATCH BASINS TO BE ADJUSTED	0	\$ 442.50	\$ -

ITEM NO.	UNIT	PAY ITEM	QUANTITY	UNIT COST	TOTAL COST
95	EACH	MANHOLES TO BE ADJUSTED	0	\$ 442.45	\$ -
96	EACH	WATERPROOFING EXISTING SANITARY MANHOLES TO BE ADJUSTED	0	\$ 487.45	\$ -
97	EACH	VALVE VAULTS TO BE ADJUSTED	0	\$ 442.90	\$ -
98	EACH	LIDS, TYPE 1, OPEN LID	0	\$ 230.00	\$ -
99	EACH	LIDS, TYPE 1, CLOSED LID	0	\$ 230.00	\$ -
100	EACH	FRAMES AND LIDS, TYPE 1, OPEN LID	0	\$ 230.00	\$ -
101	EACH	FRAMES AND LIDS, TYPE 1, CLOSED LID	0	\$ 230.00	\$ -
102	EACH	REMOVING MANHOLES	2	\$ 1,090.80	\$ 2,181.60
103	EACH	REMOVING CATCH BASINS	5	\$ 1,276.15	\$ 6,380.75
104	EACH	REMOVING INLETS	1	\$ 533.45	\$ 533.45
105	EACH	FLARED END SECTIONS TO BE REMOVED (12 IN. DIA RCCP)	4	\$ 269.30	\$ 1,077.20
106	EACH	FLARED END SECTIONS TO BE REMOVED (15 IN. DIA RCCP)	5	\$ 465.55	\$ 2,327.75
107	EACH	FLARED END SECTIONS TO BE REMOVED (24 IN. DIA RCCP)	4	\$ 556.30	\$ 2,221.20
108	EACH	PLUGGING EXISTING DRAINS AND SEWERS (12 IN. OR LESS)	2	\$ 461.50	\$ 923.00
109	EACH	PLUGGING EXISTING DRAINS AND SEWERS (OVER 12 IN.)	2	\$ 19.00	\$ 38.00
110	EACH	CLEANING EXISTING CATCH BASINS	2	\$ 225.00	\$ 450.00
111	EACH	CLEANING EXISTING MANHOLES	2	\$ 225.00	\$ 450.00
139	EACH	INLET AND PIPE PROTECTION	7		\$ -
142	EACH	CONCRETE HEADWALL REMOVAL	3	\$ 1,747.30	\$ 5,241.90
148	FOOT	PRECAST CONCRETE BOX CULVERTS 5' X 3'	384	\$ 374.60	\$ 143,846.40
150	EACH	REINFORCED CONCRETE END SECTION, 36" SPECIAL	1		\$ -
151	EACH	INLINE CHECK VALVES, 36"	2	\$ 14,620.30	\$ 29,240.60
				TOTAL SEWER	\$ 1,938,215.30

79	EACH	FIRE HYDRANTS TO BE MOVED	1	\$ 1,400.10	\$ 1,400.10
80	EACH	FIRE HYDRANTS	1	\$ 12,755.90	\$ 12,755.90
81	EACH	FIRE HYDRANTS VERTICAL ADJUSTMENT (24 IN. OR LESS)	1	\$ 1,136.70	\$ 1,136.70
82	EACH	FIRE HYDRANTS VERTICAL ADJUSTMENT (OVER 24 IN.)	1	\$ 1,605.10	\$ 1,605.10
112	FOOT	CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT, 16 IN.	680	\$ 171.15	\$ 116,382.00
113	FOOT	CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT, 24 IN.	50	\$ 379.75	\$ 18,987.50
114	FOOT	CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT, 30 IN.	80	\$ 1,218.55	\$ 97,484.00
115	EACH	16 IN. X16 IN. TAPPING SLEEVE AND 16 IN. DIA. VALVE IN 72 IN. DIA. VALVE VAULT, TYPE 1 FRAME, CLOSED LID	2	\$ 22,441.15	\$ 44,882.30
116	EACH	24 IN. X24 IN. TAPPING SLEEVE AND 24 IN. DIA. VALVE IN 96 IN. DIA. VALVE VAULT, TYPE 1 FRAME, CLOSED LID	2	\$ 38,417.55	\$ 76,835.10
117	EACH	30 IN. X30 IN. TAPPING SLEEVE AND 30 IN. DIA. VALVE IN 144 IN. DIA. VALVE VAULT, TYPE 1 FRAME, CLOSED LID	2	\$ 74,713.25	\$ 149,426.50
118	EACH	16 IN. DIA. VALVE IN 72 IN. DIA. VALVE VAULT, TYPE 1 FRAME, CLOSED LID	1	\$ 11,423.30	\$ 11,423.30
119	EACH	2" WATER SERVICE LONG (AUGERED)	1	\$ 7,108.95	\$ 7,108.95
120	FOOT	30" DIAMETER STEEL SLEEVE 0.719" WALL THICKNESS OPEN CUT	42	\$ 256.75	\$ 10,783.50
121	FOOT	48" DIAMETER STEEL SLEEVE 1.00" WALL THICKNESS OPEN CUT	40	\$ 554.35	\$ 22,174.00
122	EACH	WATER MAIN LINE STOP 16 IN.	2	\$ 23,162.65	\$ 46,325.30

ITEM NO.	UNIT	PAY ITEM	QUANTITY	UNIT COST	TOTAL COST
123	EACH	WATER MAIN LINE STOP 24 IN.	2	\$ 34,036.20	\$ 68,072.40
124	EACH	WATER MAIN LINE STOP 30 IN.	2	\$ 57,947.10	\$ 115,894.20
125	EACH	CUT AND CAP EXISTING 16" WATER MAIN	2	\$ 3,164.00	\$ 6,328.00
126	EACH	CUT AND CAP EXISTING 24 IN. WATER MAIN	2	\$ 4,826.35	\$ 9,652.70
127	EACH	CUT AND CAP EXISTING 30 IN. WATER MAIN	2	\$ 7,694.65	\$ 15,389.30
128	EACH	ABANDON VALVE VAULT	2	\$ 2,131.80	\$ 4,263.60
129	FOOT	REMOVE EXISTING WATER MAIN, 16 IN.	600	\$ 67.20	\$ 40,320.00
130	FOOT	REMOVE EXISTING WATER MAIN, 24 IN.	50	\$ 82.65	\$ 4,132.50
131	FOOT	REMOVE EXISTING WATER MAIN, 30 IN.	65	\$ 107.65	\$ 6,997.25
132	FOOT	TRENCH BACKFILL, WATER MAIN, SPECIAL	810	\$ 17.55	\$ 14,215.50
				TOTAL WATER	\$ 903,955.70

TOTAL CABO	\$	2,842,171.00
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CENTER STREET
 171ST STREET TO 159TH STREET
 COUNTY HIGHWAY W52 - SECTION 02-W5208-02-RP
 FEDERAL AID PRJECT NO. M - 4003(379)
 FEDERAL JOB NO. C-91-424-14
 CABO

ITEM NO.	UNIT	PAY ITEM	QUANTITY	UNIT COST	TOTAL COST
53	CU YD	TRENCH BACKFILL	5600	\$ 21.15	\$ 118,440.00
54	FOOT	EXPLORATION TRENCH 52 DEPTH"	500	\$ 58.40	\$ 29,200.00
59	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 15 IN.	165	\$ 58.70	\$ 9,685.50
60	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 18 IN.	77	\$ 66.85	\$ 5,147.45
63	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 18 IN.	350	\$ 84.20	\$ 29,470.00
64	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 24 IN.	593	\$ 100.05	\$ 59,329.55
65	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 30 IN.	601	\$ 129.55	\$ 77,859.55
66	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 36 IN.	701	\$ 200.85	\$ 140,795.55
67	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 42 IN.	832	\$ 211.90	\$ 176,300.80
68	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 48 IN.	1243	\$ 242.55	\$ 301,489.65
69	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS IV) 54 IN.	1175	\$ 250.95	\$ 294,866.25
70	FOOT	STORM SEWER REMOVAL, 8"	79	\$ 20.30	\$ 1,603.70
71	FOOT	STORM SEWER REMOVAL, 10"	28	\$ 31.90	\$ 893.20
72	FOOT	STORM SEWER REMOVAL, 12"	250	\$ 43.75	\$ 10,937.50
73	FOOT	STORM SEWER REMOVAL, 15"	473	\$ 43.05	\$ 20,362.65
74	FOOT	STORM SEWER REMOVAL, 18"	100	\$ 67.10	\$ 6,710.00
75	FOOT	STORM SEWER REMOVAL, 24"	238	\$ 68.60	\$ 16,326.60
76	FOOT	STORM SEWER REMOVAL, 36"	53	\$ 81.80	\$ 4,319.60
77	FOOT	STORM SEWER REMOVAL, 54"	105	\$ 109.80	\$ 11,497.50
78	FOOT	BORING AND JACKING STORM SEWERS, 54 IN.	79	\$ 3,262.95	\$ 257,773.05
86	EACH	MANHOLES, TYPE A, 4 FT. DIA WITH FRAMES AND GRATES	4	\$ 2,474.40	\$ 9,897.60
87	EACH	MANHOLES, TYPE A, 5 FT. DIA WITH FRAMES AND GRATES	9	\$ 4,226.05	\$ 38,025.45
88	EACH	MANHOLES, TYPE A, 6 FT. DIA WITH FRAMES AND GRATES	8	\$ 8,151.35	\$ 65,210.80
89	EACH	MANHOLES, TYPE A, 7 FT. DIA WITH FRAMES AND GRATES	2	\$ 11,640.90	\$ 23,281.80
90	EACH	MANHOLES, TYPE A, 8 FT. DIA WITH FRAMES AND GRATES	1	\$ 14,641.00	\$ 14,641.00
91	EACH	MANHOLES, PRECAST T" (48 IN. DIA STORM SEWER) WITH FRAMES AND GRATES"	2	\$ 2,842.70	\$ 5,685.40
92	EACH	MANHOLES, PRECAST T" (54 IN. DIA STORM SEWER) WITH FRAMES AND GRATES"	3	\$ 4,517.60	\$ 13,552.80
102	EACH	REMOVING MANHOLES	2	\$ 1,090.80	\$ 2,181.60
103	EACH	REMOVING CATCH BASINS	5	\$ 1,276.15	\$ 6,380.75
104	EACH	REMOVING INLETS	1	\$ 533.45	\$ 533.45
105	EACH	FLARED END SECTIONS TO BE REMOVED (12 IN. DIA RCCP)	4	\$ 269.30	\$ 1,077.20
106	EACH	FLARED END SECTIONS TO BE REMOVED (15 IN. DIA RCCP)	5	\$ 466.55	\$ 2,327.75
107	EACH	FLARED END SECTIONS TO BE REMOVED (24 IN. DIA RCCP)	4	\$ 555.30	\$ 2,221.20
108	EACH	PLUGGING EXISTING DRAINS AND SEWERS (12 IN. OR LESS)	2	\$ 461.50	\$ 923.00



547 W. Jackson Blvd. Chicago, IL 60661 (312) 322-6900 TTY# 1-312-322-6774

December 5, 2014

Mr. Francisco S. Cabello
Cabo Construction Corporation
1270 S. Kostner Avenue
Chicago, IL 60623

Dear Mr. Cabello:

Metra has reviewed your annual No Change Affidavit and supporting documentation and is pleased to inform you that your firm continues to meet the Disadvantaged Business Enterprise (DBE) program certification eligibility standards set forth in 49 CFR Subpart D 26.61. Your next No Change Affidavit is due **December 2, 2015**. Notification will be sent to you sixty (60) days prior to this date.

This certification allows your firm to participate as a DBE in the Illinois Unified Certification Program (IL UCP). The participating agencies include the Illinois Department of Transportation, the City of Chicago, the Chicago Transit Authority, Metra and Pace.

If there is any change in your certification that affect your ability to meet size standards, disadvantaged status, ownership, or control requirements or any material change in the information provided in your initial application, you must provide written notification to this agency within thirty (30) days of the occurrence of the change. Failure to provide this information is grounds for removal of certification based on failure to cooperate pursuant to 49 CFR 26.109(c).

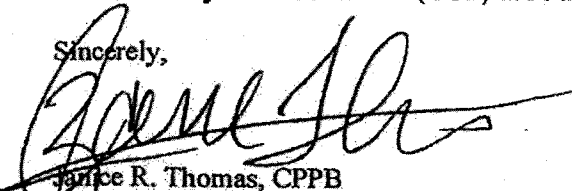
Your firms name will appear in the IL UCP directory, which is used by prime contractors/consultants, as well as other agencies, to solicit participation of DBE firms. The Directory can be accessed at www.metrotransit.com under the Business Diversity (DBE) link. Your firm's name will appear in the IL UCP DBE Directory under the following:

NAICS Code: 237110, 237310, 484220

Specialty: 237110 – General Contractor, Sewer and Water
237310 – Concrete
484220 – Dump Truck Hauling

Your participation on contracts will only be credited toward DBE contract goals when your firm performs in a Commercially Useful Function (CUF) in its approved area(s) of specialty.

Sincerely,



Janice R. Thomas, CPPB
Senior Director
Office of Business Diversity and Civil Rights

JRT:rw/kb

24

UCP Construction

12/22/2014

100

Cabo Construction Corporation

Francisco S. Cabello
1270 S. Kostner Ave.
Chicago, IL 60623

Phone: 773-521-2226
Fax: 773-521-2228
District 1

Category Construction

NAICS

237110 - WATER AND SEWER LINE AND RELATED STRUCTURES
CONSTRUCTION;
237310 - HIGHWAY STREET AND BRIDGE CONSTRUCTION;
484220 - SPECIALIZED FREIGHT (EXCEPT USED GOODS)
TRUCKING LOCAL;

Specialty

237110 - GENERAL CONTRACTOR, SEWER AND WATER;
237310 - CONCRETE;
484220 - DUMP TRUCK HAULING;

COOK COUNTY LETTER OF INTENT
(Section 2)

FROM DBE TO PERFORM AS SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT

Contract Title & Number: CENTER STREET , 171ST STREET TO 159 STREET

From: J. Jasso Trucking (DBE Firm)

To: CAPITOL CEMENT COMPANY, INC (Bidder/Proposer Firm) and the County of Cook

The Undersigned is prepared to provide the following services, supplies and project in connection with the above named contract (the "Contract"): Each service performed and/or item supplied will be detailed under Description of Service/Supply and Project with all services/items totaled under Fee/Cost to equal the full dollar amount of the Letter of Intent. This form must be completed for each disadvantaged business participating in the Utilization Plan. Attach this form to the Utilization Plan form. If additional space is needed, complete an additional form for the firm.

Pay Item No.	Description	Quantity	Fee/Cost	%
	<i>see Attached</i>		\$	%
			\$	%
			\$	%
			Total: \$ <u>429,505⁰⁰</u>	%

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/Supply and Fee/Cost were completed.

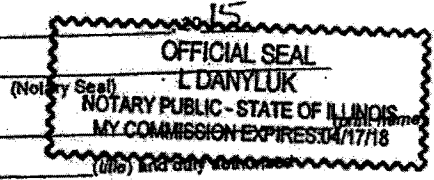
Upon Penalty of perjury, I Jose Jasso (print)
name) the President (title) and duly authorized
representative of the J. Jasso Trucking (DBE

firm) affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ 429,505⁰⁰ which represents the above indicated total percentage _____ % for the contract amount \$ _____

Jose Jasso
(Signature of affiant) 5, 11, 15
(Date)

Subscribed and sworn to before me this 11 day of MAY

[Signature]
(Notary's Signature)



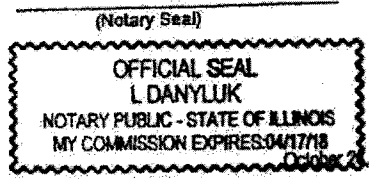
Upon penalty of perjury, DAVID SLONIM
the VICE PRESIDENT
representative of CAPITOL CEMENT COMPANY, INC (Bidder/Proposer firm),

affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ _____ which represents the above indicated total percentage _____ % for the contract amount \$ _____

David Slonim
(Signature of affiant) 05 / 11 / 2015
(Date)

Subscribed and sworn to before me this 11 day of MAY, 20 15

[Signature]
(Notary's Signature)





Illinois Department of Transportation

Office of Business & Workforce Diversity
2300 South Dirksen Parkway / Springfield, Illinois 62764

August 20, 2014

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. Jose Jasso
J. Jasso Trucking Co.
5719 S. Homan Ave.
Chicago, IL 60629

Dear Mr. Jasso:

The Illinois Department of Transportation (IDOT) has approved the "No Change Affidavit" for J. Jasso Trucking Co., and determined that the firm continues to meet DBE eligibility standards to perform work towards DBE goals.

In order to remain certified and in good standing, you must annually submit a No Change Affidavit. IDOT will send an affidavit form 60 days prior to the firm's next anniversary date.

Should the submitted information change, you are required to notify IDOT's Bureau of Small Business Enterprises (bureau) within 30 days of the change.

Note: Pursuant to 49 CFR Part 26.83(i), whenever there are any change in circumstances affecting your firm's eligibility status, your firm must provide written notification to IDOT within 30 days of the occurrence of the change. If you fail to make timely notification, it may result in the loss of your firm's certification.

If you have any questions, please contact the Bureau of Small Business Enterprises at (217) 782-5490.

Sincerely,

A handwritten signature in black ink, appearing to read "Debra A. Clark".

Debra A. Clark, Manager
Certification Section
Bureau of Small Business Enterprises

CENTER STREET
J JASSO TRUCKING

ITEM NO.	QTY	UNIT	PAY ITEM
58	770	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 12 IN.
61	1018	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 12 IN.
62	125	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 15 IN.
83	385	FOOT	PIPE UNDERDRAINS, PERFORATED POLYVINYL CHLORIDE PIPE, 6 IN.
84	71	EACH	CATCH BASINS, TYPE A2, 4 FT. DIA WITH FRAMES AND GRATES
85	50	EACH	CATCH BASINS, TYPE C, 2 FT. DIA WITH FRAMES AND GRATES
19	1	L SUM	CRUSHED STONE (TEMPORARY USE)
22	26220	CU YD	EARTH EXCAVATION
23	4640	CU YD	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
24	4815	CU YD	POROUS GRANULAR EMBANKMENT
25	663	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"
26	574	SQ YD	AGGREGATE BASE COURSE, TYPE B 10"
27	30530	SQ YD	AGGREGATE SUBGRADE, 12 IN.
33	1298	FOOT	COMBINATION CURB AND GUTTER REMOVAL
47	750	CU YD	NON-SPECIAL WASTE DISPOSAL
52	177	FOOT	RAILROAD TRACK REMOVAL
53	500	CU YD	TRENCH BACKFILL
133	31	SQ YD	STONE RIPRAP, CLASS A1
134	31	SQ YD	STONE RIPRAP, CLASS A5
141	1	EACH	REMOVAL OF EXISTING STRUCTURES NO. 1
152	17215	SQ YD	TOPSOIL, FURNISH AND PLACE, 4"

SUMMARY

HOURS	UNIT COST	TOTAL COST
30	\$ 85.00	\$ 2,550.00
50	\$ 85.00	\$ 4,250.00
20	\$ 85.00	\$ 1,700.00
10	\$ 85.00	\$ 850.00
180	\$ 85.00	\$ 15,300.00
10	\$ 85.00	\$ 850.00
20	\$ 85.00	\$ 1,700.00
450	\$ 85.00	\$ 38,250.00
100	\$ 85.00	\$ 8,500.00
90	\$ 85.00	\$ 7,650.00
14	\$ 85.00	\$ 1,190.00
40	\$ 85.00	\$ 3,400.00
2800	\$ 85.00	\$ 238,000.00
150	\$ 85.00	\$ 12,750.00
300	\$ 85.00	\$ 25,500.00
100	\$ 85.00	\$ 8,500.00
170	\$ 85.00	\$ 14,450.00
12	\$ 85.00	\$ 1,020.00
12	\$ 85.00	\$ 1,020.00
15	\$ 85.00	\$ 1,275.00
480	\$ 85.00	\$ 40,800.00
	\$ 85.00	\$ 429,505.00

5053

COOK COUNTY LETTER OF INTENT
(Section 2)

FROM DBE TO PERFORM AS SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT

Contract Title & Number: CENTER STREET , 171ST STREET TO 159 STREET

From: Metromex Contractors, Inc. (DBE Firm)

To: CAPITOL CEMENT COMPANY, INC. (Bidder/Proposer Firm) and the County of Cook

The Undersigned is prepared to provide the following services, supplies and project in connection with the above named contract (the "Contract"). Each service performed and/or item supplied will be detailed under Description of Service/Supply and Project with all services/items totaled under Fee/Cost to equal the full dollar amount of the Letter of Intent. This form must be completed for each disadvantaged business participating in the Utilization Plan. Attach this form to the Utilization Plan form. If additional space is needed, complete an additional form for the firm.

Pay Item No.	Description	Quantity	Fee/Cost
	See Attached Quote		\$ _____ %
			\$ _____ %
			\$ _____ %
			\$ _____ %
			\$ _____ %
			Total: \$ <u>213,160⁰⁰</u> %

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/Supply and Fee/Cost were completed.

Upon Penalty of perjury, I Federico Rojas (print name) the President (title) and duly authorized representative of the Metromex Contractors Inc. (DBE firm) affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ 213,160⁰⁰ which represents the above indicated total percentage _____ % for the contract amount \$ _____

(Signature of affiant) _____ (Date) _____

Subscribed and sworn to before me this 12 day of May (Notary's Signature) _____

OFFICIAL SEAL
DIANA ROJAS
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 04/17/18

Upon penalty of perjury, DAVID SLONIM (print name) the VICE PRESIDENT (title) and duly authorized representative of CAPITOL CEMENT COMPANY, INC. (Bidder/Proposer firm), affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ _____ which represents the above indicated total percentage _____ % for the contract amount \$ _____

(Signature of affiant) David Slonim (Date) 05 / 11 / 2015

Subscribed and sworn to before me this 11 day of MAY 20 15 (Notary's Signature) _____

OFFICIAL SEAL
L DANYLUK
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 04/17/18

(Notary Seal)



QUOTATION

9550 Sergio Drive Suite 100
 McCook, IL 60525
 Phone: (708) 485-3000
 Fax: (708) 485-3011

PROPOSAL DATE	PROPOSAL FOR
Wednesday, June 17, 2015	CENTER STREET 171st Street to 169th Street Section No.: 02-W5208-02-RP Route No.: W52 Cook County Contract No. L: 1555-14816

ITEM NUMBER	ITEM DESCRIPTION	UNIT/PRODUCTION RATE	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL PRICE
10	BITUMINOUS MATERIALS (PRIME COAT)	INCLUDED	POUND	4,000.00	\$ 1.41	\$ 5,640.00
11	HOT-MIX ASPHALT SURFACE COURSE, MD "D", N70	1 DAY	TON	770.00	\$ 94.29	\$ 72,803.30
28	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	1 DAY	TON	72.00	\$ 218.83	\$ 15,755.76
29	HOT-MIX ASPHALT SURFACE COURSE, MDC "D", N50		TON	48.00	\$ 223.83	\$ 10,743.84
35	HOT-MIX ASPHALT SHOULDERS, 6"	2 DAYS	SQYD	1,954.00	\$ 41.05	\$ 80,211.70
38	HOT-MIX ASPHALT PLUG AT RAILROAD CROSSING	1 DAY	TON	145.00	\$ 194.52	\$ 28,205.40
<p>EXCLUSIONS: General Contractor is responsible to assure sub base is at proper grade during our paving operation and if required all string lines are in place for our use. The preparation of a firm base/sub-base at proper elevation should be Asphalt Ready to be done by others for the above bid items. If a HMA sub base overbuild is required it is not included. For All Class D Patches we do not include the cost of any removal or preparation cost in our quote and only provide you with placement of the HMA Only. We exclude any trimming of asphalt prior to PCC placement pavement will be placed on grade. Prices are based on having productive mobilizations, based on an approved schedule prior to work. Bituminous QC/QA Testing is included for the above items. We do not participate in liquidated damages or incentive plans. The cost of the materials transfer device is not included in this quote. We elect to use the Bituminous Index the form if available must be submitted with your bid. Special Insurance, Bonds, Permits, State sales Tax, Layout, Traffic Control, Saw Cuts, are not included. We reserve the right to refuse any additional work add by the owner and the quoted prices are for only the items shown on the for BID Set of Plans. Additionally this quotation page must be part of the subcontractor agreement. Work to be completed by December 1st, 2015.</p>						
					Total	\$ 215,160.00

Notes: Prices are based on having productive mobilizations, based on an approved schedule prior to work. We have shown the estimate workings days and production rates used during the bidding process above; if additional working days are required our Minimum daily rate is \$10,500.00 payable by the GC as we have no control over your schedule or sequence of operations on the project.

All Materials are guaranteed to be as specified, and the above work to be performed in accordance with the drawing and specifications submitted for the above work and completed in substantial workmanlike for the above total dollar amount

Proposal Prepared by: *Dwight A. Patel*
 Approval of Proposal: *R.K.F.R.*

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payments will be made as outlined above.

Date: _____ General Contractor Signature: _____



MBE Letter of Intent/ Certification will be forwarded on request.
 Please contact us at (708) 485-3000
 with any questions or comments.
 Thank you for your business!



METROMEX

ITEM NO.	QUANTITIES	UNIT	PAY ITEM	
10	4000	POUND	BITUMINOUS MATERIALS (PRIME COAT)	A
11	770	TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70"	A
28	72	TON	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	A
29	48	TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	A
35	1954	SQ YD	HOT-MIX ASPHALT SHOULDERS, 6"	A
38	145	TON	HOT-MIX ASPHALT PLUG AT RAILROAD CROSSING	A

UNIT COST	TOTAL COST
\$ 1.41	\$ 5,640.00
\$ 94.29	\$ 72,603.30
\$ 218.83	\$ 15,755.76
\$ 223.83	\$ 10,743.84
\$ 41.05	\$ 80,211.70
\$ 194.52	\$ 28,205.40
TOTAL	\$ 213,160.00



Illinois Department of Transportation

Office of Business & Workforce Diversity
2300 South Dirksen Parkway / Springfield, Illinois 62764

August 25, 2014

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. Federico Rojas
Metromex Contractors, Inc.
9550 Sergo Dr., Ste. 100
McCook, IL 60525

Dear Mr. Rojas:

The Illinois Department of Transportation (IDOT) has approved the "No Change Affidavit" for Metromex Contractors, Inc., and determined that the firm continues to meet DBE eligibility standards to perform work towards DBE goals.

In order to remain certified and in good standing, you must annually submit a No Change Affidavit. IDOT will send an affidavit form 60 days prior to the firm's next anniversary date.

Should the submitted information change, you are required to notify IDOT's Bureau of Small Business Enterprises (bureau) within 30 days of the change.

Note: Pursuant to 49 CFR Part 26.83(i), whenever there are any change in circumstances affecting your firm's eligibility status, your firm must provide written notification to IDOT within 30 days of the occurrence of the change. If you fail to make timely notification, it may result in the loss of your firm's certification.

If you have any questions, please contact the Bureau of Small Business Enterprises at (217) 782-5490.

Sincerely,

A handwritten signature in black ink, appearing to read "Debra A. Clark".

Debra A. Clark, Manager
Certification Section
Bureau of Small Business Enterprises

Unified Certification Program - Search

[Contractor Details](#)

[Browse F.A.Q. Sheet \(/ucpsearch/Search/Help\)](#)

[Print](#)

Metromex Contractors, Inc.

Federico Rojas
9550 Sergo Dr., Ste. 100
McCook, IL 60525

Email:

frojas@metromex1.com

Phone: 708-485-3000

Fax: 708-485-3011

County: Cook

Categories: Construction

NAICS

237310-Highway, Street, & Bridge
Construction

237990-Other Heavy and Civil
Engineering Construction

238110-Poured Concrete Foundation
and Structure Contractors

Speciality

237310-CURB & GUTTER,
SIDEWALKS

PAVEMENT PATCHING

BITUMINOUS PAVING

237990-DRAINAGE

238110-MISCELLANEOUS
CONCRETE



Illinois Department of Transportation

Office of Business & Workforce Diversity
2300 South Dirksen Parkway / Springfield, Illinois 62764

June 17, 2011

CERTIFIED-RETURN RECEIPT REQUESTED

Federico Rojas
Metromex Contractors, Inc.
9550 Sergo Dr., Ste. 100
McCook, IL 60525

Dear Federico Rojas:

Illinois Department of Transportation (IDOT), your host agency, is pleased to notify you that your firm has met the requirements for Disadvantaged Business Enterprise (DBE) program certification in accordance with the governing federal regulations, 49 CFR part 26.

This certification allows your firm to participate as a DBE in the Illinois Unified Certification Program (IL UCP). The participating agencies include the Illinois Department of Transportation, the City of Chicago, the Chicago Transit Authority, Metra, and Pace.

Your certification is approved for a five (5) year period, commencing on May 24, 2011. To remain certified with the IL UCP during the five-year period, you must submit a *No Change Affidavit* each year. Notification will be sent to you sixty (60) days prior to the anniversary date of your certification. It is your responsibility to ensure that your certification is kept current by submitting the required information in a timely manner. Failure to provide this information is a ground for removal of certification based on failure to cooperate pursuant to 49 CFR 26.109(c).

If there is any change in circumstances that affects your ability to meet size, disadvantaged status, ownership, or control requirements or any material change in the information provided in your application, you must provide written notification to this agency within thirty (30) days of the occurrence of the change. Failure to provide this information is a ground for removal of certification pursuant to 49 CFR 26.83(i).

Your firm's name will appear in the IL UCP DBE Directory in the following area(s) of specialty:

DRAINAGE
PAVEMENT PATCHING
BITUMINOUS PAVING
CURB & GUTTER, SIDEWALKS
MISCELLANEOUS CONCRETE

This Directory is used by prime contractors/consultants, as well as other agencies, to solicit participation of DBE firms. The Directory can be accessed on the Internet at www.dot.il.gov/ucp/ucpdirectorybyname.pdf.

Metromex Contractors, Inc.
Page 2
June 17, 2011

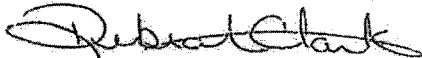
Your participation on contracts will only be credited toward DBE contract goals when you perform in your firm's approved area(s) of specialty. Credit for participation in an area outside your specialty requires prior approval (verification of resources, expertise, and corresponding support documentation, etc.).

Please note:

- This certification does not attest to your firm's abilities to perform in the approved work category(ies).
- Your certification may be revoked if your firm is found to be involved in bidding or contractual irregularities or has violated DBE program regulations pursuant to 49 CFR Part 26.107.
- For work to count toward a DBE contract goal, the DBE firm must perform a "commercially useful function" pursuant to 49 CFR Part 26.55. A DBE is considered to perform a commercially useful function when it is responsible for execution of a distinct element of the work of a contract and carrying out its responsibilities by actually performing, managing, and supervising the work involved.
- Firms seeking work with IDOT as a prime or subconsultant in specialized engineering categories must be prequalified by IDOT's Bureau of Design and Environment.
- Firms seeking work with IDOT as a prime construction contractor must be prequalified by IDOT's Bureau of Construction.

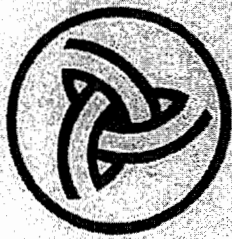
Please direct all inquiries and any questions to this agency at (217) 782-5490.

Sincerely,



Debra A. Clark, Manager
Certification Section
Bureau of Small Business Enterprises

Enclosure



Illinois Department of Transportation

Metromex Contractors, Inc.

is hereby certified as a

Disadvantaged Business Enterprise

This certificate is valid under current firm ownership and operational control only and supercedes any authorization or listing previously issued.

Gary Hannig
Secretary

Illinois Department of Transportation

Carol Lyle
Bureau Chief

Bureau of Small Business Enterprises

Effective the 24th day of May 2011

COOK COUNTY LETTER OF INTENT
(Section 2)

FORM TO BE COMPLETED BY SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT

Contract Title & Number: Center Street, 1555 14616
 From: POWER ONE SUPPLY, INC. (DBE Firm)
 To: _____ (Bidder/Proposer Firm) and the County of Cook

The Undersigned is prepared to provide the following services, supplies and project in connection with the above named contract (the "Contract"). Each service performed and/or item supplied will be detailed under Description of Service/Supply and Project with all certifications totaled under Fee/Cost to equal the full dollar amount of the Letter of Intent. This form must be completed for each disadvantaged business participating in the Utilization Plan. Attach this form to the Utilization Plan form. If additional space is needed, complete an additional form for the firm.

Pay Item No.	Description	Quantity	Fee/Cost	%
	SUPPLY MATERIALS		\$	%
	P.E.R. ATTACHED		\$	%

Total \$ 83,522.69 x 60% = 50,113.61

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/Supply and Fee/Cost were completed.

Upon penalty of perjury, I MARTIN L. STEPHENSON JR. (print name) the PRESIDENT/DIRECTOR (Title) and duly authorized representative of the POWER ONE SUPPLY, INC. (DBE Firm) affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ 50,113.61 which represents 60% of 83,522.69 the above indicated total percentage 60% for the contract amount \$ _____

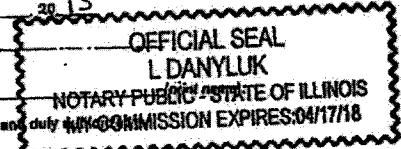
[Signature] (Signature of affiant) 5/12/15 (Date)

Subscribed and sworn to before me this 12 day of MAY 2015
[Signature] (Notary's Signature) _____ (Notary Seal)

Upon penalty of perjury, David Storum (Name) and duly authorized representative of CAPITAL CONCRETE CO. LLC (Bidder/Proposer Firm) affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ _____ which represents the above indicated total percentage _____ % for the contract amount \$ _____

David Storum (Signature of affiant) 5/12/15 (Date)

Subscribed and sworn to before me this 12 day of MAY 2015
[Signature] (Notary's Signature) _____ (Notary Seal)



CENTER STREET
 171ST STREET TO 159TH STREET
 COUNTY HIGHWAY W52 - SECTION 02-W5208-02-RP
 FEDERAL AID PROJECT NO. M - 4003(379)
 FEDERAL JOB NO. C-91-424-14

H & H ELECTRIC COMPANY

POWER-ONE-SUPPLY, INC.

ITEM NO.	QUANTITIES	UNIT	PAY ITEM	UNIT COST	TOTAL COST
180	2	EACH	SERVICE INSTALLATION - POLE MOUNTED	\$ 280.42	\$ 560.84
188	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	\$ 469.06	\$ 1,407.18
189	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	\$ 488.32	\$ 1,464.96
190	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	\$ 3,708.89	\$ 3,708.89
191	3	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	\$ 3,575.56	\$ 10,726.68
192	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	\$ 3,678.89	\$ 3,678.89
196	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	\$ 378.72	\$ 3,013.76
197	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	\$ 351.80	\$ 1,055.40
198	5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	\$ 590.86	\$ 2,954.30
199	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	\$ 703.59	\$ 703.59
200	4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	\$ 908.10	\$ 3,632.40
201	14	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	\$ 53.25	\$ 745.50
202	12	EACH	INDUCTIVE LOOP DETECTOR	\$ 99.14	\$ 1,189.68
212	2	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	\$ 12,732.15	\$ 25,464.30
213	2	EACH	UNINTERRUPTABLE POWER SUPPLY	\$ 2,855.69	\$ 5,711.38
216	1	EACH	VIDEO DETECTION SYSTEM, SINGLE CAMERA/PROCESSOR	\$ 4,815.27	\$ 4,815.27
218	7	EACH	ILLUMINATED STREET NAME SIGN, LED, 6 FT	\$ 1,812.81	\$ 12,689.67
TOTAL				\$	83,522.69

0.60

TOTAL DBE \$ 50,113.61

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	INCLUDED		OPTIONAL		103	
				IDOT SBE 2025 FORM (REV. 08/02/13)	POWER ONE SUPPLY	IDOT SBE 2025 FORM (REV. 08/02/13)	POWER ONE SUPPLY	IDOT SBE 2025 FORM (REV. 08/02/13)	POWER ONE SUPPLY
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
183	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,300.00						
184	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,527.00						
185	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	390.00						
186	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1,326.00						
187	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED	FOOT	260.00						
188	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3.00			469.06	1,407.19		
189	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3.00			488.32	1,464.97		
190	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	1.00	3,708.89	3,708.89				
191	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	3.00	3,575.56	10,726.68				
192	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1.00	3,678.89	3,678.89				
193	CONCRETE FOUNDATION, TYPE A	FOOT	24.00						
194	CONCRETE FOUNDATION, TYPE C	FOOT	8.00						
195	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	68.00						
196	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8.00			376.72	3,013.76		
197	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3.00			351.80	1,055.39		
198	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5.00			590.86	2,954.30		
199	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.00			703.59	703.59		
200	SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4.00			908.10	3,632.40		
201	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	14.00			53.25	745.51		
202	INDUCTIVE LOOP DETECTOR	EACH	12.00			99.14	1,189.65		
203	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	FOOT	318.00						
204	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1.00						
205	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1.00						
206	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1.00						
207	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.00						
208	REMOVE EXISTING HANDHOLE	EACH	4.00						
209	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1.00						
210	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5.00						
211	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3.00						
212	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	2.00			12,732.15	25,464.30		
213	UNINTERRUPTABLE POWER SUPPLY	EACH	2.00			2,855.68	5,711.37		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	INCLUDED		OPTIONAL	
				FORM (REV. 08/02/13)	POWER ONE SUPPLY	FORM (REV. 08/02/13)	POWER ONE SUPPLY
							1.03
				FORM (REV. 08/02/13)	POWER ONE SUPPLY	FORM (REV. 08/02/13)	POWER ONE SUPPLY
					TOTAL COST		TOTAL COST
214	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,500.00				
215	GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	3.00				
216	VIDEO DETECTION SYSTEM, SINGLE CAMERA/PROCESSOR VIDEO DETECTION	EACH	1.00			4,815.27	4,815.27
217	ELECTRIC CABLE, VIDEO DETECTION SYSTEM	FOOT	275.00				
218	ILLUMINATED STREET NAME SIGN, LED, 6 FT.	EACH	7.00			1,812.81	12,689.67
219	ELECTRIC SERVICE	L SUM	1.00				
220	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	1,385.00				
TOTALS					18,114.48		65,408.22
	50% D.B.E. PARTICIPATION GOAL CREDIT FOR MATERIALS				0.60		0.60
	SUBTOTAL AMOUNT OF INCLUDED D.B.E. PARTICIPATION				10,865.68		
	SUBTOTAL AMOUNT OF OPTIONAL D.B.E. PARTICIPATION						39,244.93
	GRAND TOTAL AMOUNT OF D.B.E. PARTICIPATION						50,113.61

- DBE



Illinois Department of Transportation

Office of Business & Workforce Diversity
2300 South Dirksen Parkway / Springfield, Illinois 62764

July 1, 2014

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. Martin L. Stephenson Jr.
Power-One-Supply, Inc.
419A Stevens St.
Geneva, IL 60134

Dear Mr. Stephenson:

The Illinois Department of Transportation (IDOT) has approved the 2014 "No Change Affidavit" for Power-One-Supply, Inc., and determined that the firm continues to meet DBE eligibility standards to perform work towards DBE goals.

In order to remain certified and in good standing, you must annually submit a No Change Affidavit. IDOT will send an affidavit form 60 days prior to the firm's next anniversary date.

Should the submitted information change, you are required to notify IDOT's Bureau of Small Business Enterprises (bureau) within 30 days of the change.

Note: Pursuant to 49 CFR Part 26.83(i), whenever there are any change in circumstances affecting your firm's eligibility status, your firm must provide written notification to IDOT within 30 days of the occurrence of the change. If you fail to make timely notification, it may result in the loss of your firm's certification.

If you have any questions, please contact the Bureau of Small Business Enterprises at (217) 782-5490.

Sincerely,

A handwritten signature in black ink, appearing to read "Debra A. Clark".

Debra A. Clark, Manager
Certification Section
Bureau of Small Business Enterprises

COOK COUNTY LETTER OF INTENT
(Section 2)

FROM DBE TO PERFORM AS SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT

Contract Title & Number: CENTER STREET, 171ST STREET TO 159 STREET
From: MATERIAL SOLUTIONS LAB (MSL) (DBE Firm)
To: CAPITOL CEMENT COMPANY, INC. (Bidder/Proposer Firm) and the County of Cook

The Undersigned is prepared to provide the following services, supplies and project in connection with the above named contract (the "Contract"): Each service performed and for item supplied will be detailed under Description of Service/Supply and Project with all services/items totaled under Fee/Cost to equal the full dollar amount of the Letter of Intent. This form must be completed for each disadvantaged business participating in the Utilization Plan. Attach this form to the Utilization Plan form. If additional space is needed, complete an additional form for the firm.

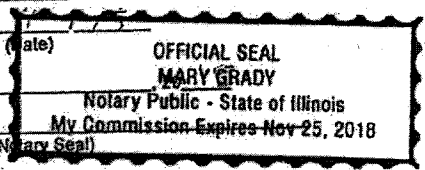
Pay Item No.	Description	Quantity	Fee/Cost
	RC CONCRETE ^{MSL}	1	\$ _____ %
			\$ _____ %
			\$ _____ %
			\$ _____ %
			\$ _____ %
			\$ _____ %

* ESTIMATED
Total: \$ 15,000⁰⁰ %

** INVOICED PER 2015 MSL RATE SHEET
THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/Supply and Fee/Cost were completed.

Upon penalty of perjury, I SAM KUKADIA (print name) the CITIZEN/PRINCIPAL (title) and duly authorized representative of the MATERIAL SOLUTIONS LAB (DBE firm) affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ 15,000 which represents the above indicated total percentage _____ % for the contract amount \$ _____

Sam Kukadia
(Signature of affiant)



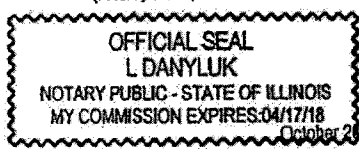
Subscribed and sworn to before me this 11th day of May
Mary Grady
(Notary's Signature)

Upon penalty of perjury, DAVID SLONIM (print name), the VICE PRESIDENT (title) and duly authorized representative of CAPITOL CEMENT COMPANY, INC. (Bidder/Proposer firm), affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ _____ which represents the above indicated total percentage _____ % for the contract amount \$ _____

David Slonim
(Signature of affiant)

05 / 11 / 2015
(Date)

Subscribed and sworn to before me this 11 day of MAY, 2015
David Slonim
(Notary's Signature)





Material Solutions Laboratory

1040 Benaventure Drive, Elk Grove Village, Illinois 60007
Office: 847-466-7216 Fax: 847-285-1712

RATE SHEET FOR FIELD TESTING, INSPECTION & LABORATORY SERVICES

2015

Personnel

Principal Engineer	\$130.00/hour
Project Engineer	\$115.00/hour
Administrative Assistant	\$40.00/hour
Concrete/Soils/HMA Technician	\$110.00/hour

Laboratory/Field Services

Nuclear Density Gauge	\$50.00/day
Cylinder Pick-Up Charge	\$50.00/per set
Technician Trip Charge	\$35.00/trip
Standard Proctor (AASHTO T180)	\$200.00/each
HMA/PCC Coring Machine	\$250/day
Specific Gravity (ASTM D-854)	\$75.00/each
Atterberg Limits (ASTM D4318)	\$175.00/each
Concrete Cylinders	\$20.00/each
Washed Gradations	\$160.00/each
HMA Voids	\$450.00/each
HMA AC Content (Ignition)	\$225/each
HMA AC Content (Reflux)	\$275/each
Core Density (ASTM D2726)	\$65.00/core

Notes:

1. Material Solutions Laboratory (MSL) charges the hourly rate for the actual travel time from its lab located in Elk Grove Village to/from the job site.
2. A minimum of 8 hours on site will be billed to the client.
All minimums include travel time.
3. Unit Rates are for a normal 8-hour workday with overtime after 8 hours per day and on Saturday. Overtime will be invoiced at 1.4 times the normal hourly rate.
4. The rates quoted above include the charges for the equipment and vehicle.
5. Any night work will be subject to a +10% shift differential.
6. Please give 24 hour notice to schedule a technician (847-466-7216).
7. In the event of cancellation of field work for reasons other than weather related, please give 24 hours notice (847-466-7216).



Illinois Department of Transportation

Office of Business & Workforce Diversity
2300 South Dirksen Parkway / Springfield, Illinois 62764

November 19, 2014

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. Samir Kukadia
Material Solutions Laboratory Corporation
1040 Bonaventure Dr.
Elk Grove Village, IL 60007

Dear Mr. Kukadia:

The Illinois Department of Transportation (IDOT) has approved the "No Change Affidavit" for Material Solutions Laboratory Corporation and determined that the firm continues to meet DBE eligibility standards to perform work towards DBE goals.

In order to remain certified and in good standing, you must annually submit a No Change Affidavit. IDOT will send an affidavit form 60 days prior to the firm's next anniversary date.

Should the submitted information change, you are required to notify IDOT's Bureau of Small Business Enterprises (bureau) within 30 days of the change.

Note: Pursuant to 49 CFR Part 26.83(i), whenever there are any change in circumstances affecting your firm's eligibility status, your firm must provide written notification to IDOT within 30 days of the occurrence of the change. If you fail to make timely notification, it may result in the loss of your firm's certification.

If you have any questions, please contact the Bureau of Small Business Enterprises at (217) 782-5490.

Sincerely,

A handwritten signature in black ink, appearing to read "Debra A. Clark".

Debra A. Clark, Manager
Certification Section
Bureau of Small Business Enterprises



Illinois Department of Transportation

Material Solutions Laboratory Corporation

is hereby certified as a

Disadvantaged Business Enterprise

This certificate is valid under current firm ownership and operational control only and supercedes any authorization or listing previously issued.

Handwritten signature of Gary Hannig.

Gary Hannig
Secretary

Illinois Department of Transportation

Handwritten signature of Carol Lyle.

Carol Lyle
Bureau Chief

Bureau of Small Business Enterprises

Effective the 27th day of July, 2010



Illinois Department of Transportation

Office of Business & Workforce Diversity
2300 South Dirksen Parkway / Springfield, Illinois 62764

August 17, 2010

CERTIFIED-RETURN RECEIPT REQUESTED

Samir Kukadia
Material Solutions Laboratory Corporation
2011 E. Devon Ave.
Elk Grove Village, IL 60007

Dear Samir Kukadia:

Illinois Department of Transportation (IDOT), your host agency, is pleased to notify you that your firm has met the requirements for Disadvantaged Business Enterprise (DBE) program certification in accordance with the governing federal regulations, 49 CFR part 26.

This certification allows your firm to participate as a DBE in the Illinois Unified Certification Program (IL UCP). The participating agencies include the Illinois Department of Transportation, the City of Chicago, the Chicago Transit Authority, Metra, and Pace.

Your certification is approved for a five (5) year period, commencing on **July 27, 2010**. To remain certified with the IL UCP during the five-year period, you must submit a *No Change Affidavit* each year. Notification will be sent to you **sixty (60) days** prior to the anniversary date of your certification. It is your responsibility to ensure that your certification is kept current by submitting the required information in a timely manner. Failure to provide this information is a ground for removal of certification based on failure to cooperate pursuant to 49 CFR 26.109(c).

If there is any change in circumstances that affects your ability to meet size, disadvantaged status, ownership, or control requirements or any material change in the information provided in your application, you must provide written notification to this agency within **thirty (30) days** of the occurrence of the change. Failure to provide this information is a ground for removal of certification pursuant to 49 CFR 26.83(i).

Your firm's name will appear in the IL UCP DBE Directory in the following area(s) of specialty:

QA AGGREGATE/HMA/PCC
MISC: CONCRETE FIELD TESTING
MISC: CONCRETE LABORATORY TESTING
MISC: MATERIAL TESTING

This Directory is used by prime contractors/consultants, as well as other agencies, to solicit participation of DBE firms. The Directory can be accessed on the Internet at www.dot.il.gov/ucp/ucpdirectorybyname.pdf.

Material Solutions Laboratory Corporation
Page 2
August 17, 2010

Your participation on contracts will only be credited toward DBE contract goals when you perform in your firm's approved area(s) of specialty. Credit for participation in an area outside your specialty requires prior approval (verification of resources, expertise, and corresponding support documentation, etc.).

Please note:

- This certification does not attest to your firm's abilities to perform in the approved work category(ies).
- Your certification may be revoked if your firm is found to be involved in bidding or contractual irregularities or has violated DBE program regulations pursuant to 49 CFR Part 26.107.
- For work to count toward a DBE contract goal, the DBE firm must perform a "commercially useful function" pursuant to 49 CFR Part 26.55. A DBE is considered to perform a commercially useful function when it is responsible for execution of a distinct element of the work of a contract and carrying out its responsibilities by actually performing, managing, and supervising the work involved.
- Firms seeking work with IDOT as a prime or subconsultant in specialized engineering categories must be prequalified by IDOT's Bureau of Design and Environment.
- Firms seeking work with IDOT as a prime construction contractor must be prequalified by IDOT's Bureau of Construction.

Please direct all inquiries and any questions to this agency at (217) 782-5490.

Sincerely,



Debra A. Clark, Manager
Certification Section
Bureau of Small Business Enterprises

Enclosure

COOK COUNTY LETTER OF INTENT (Section 2)

FROM DBE TO PERFORM AS SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT

Contract Title & Number: Center St 1555-14616

From: Cable Design Inc. (DBE Firm)

To: (Bidder/Proposer Firm) and the County of Cook

The Undersigned is prepared to provide the following services, supplies and project in connection with the above named contract (the "Contract"):

Table with 4 columns: Pay Item No., Description, Quantity, Fee/Cost. Row 1: 40, SPBGR TY A 6' Posts, 5,000, \$53,250.00. Row 2: \$8.60. Row 3: \$31,950.00. Total: \$31,950.00.

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook.

Upon penalty of perjury, I Kathleen Pope (print name) the President (title) and duly authorized representative of the Cable Design, Inc. (DBE)

I/We affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ 31,950 which represents = 60% (the above indicated total percentage % for the contract amount \$)

(Signature of affiant) Kathleen Pope (Date) 05/12/15

Subscribed and sworn to before me this 12th day of MAY, 2015

(Notary's Signature) Maryann I. Van Dyke (Notary Seal)



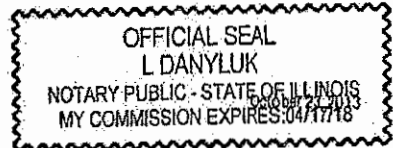
Upon penalty of perjury, I David Shonim (print name) the Vice President (title) and duly authorized representative of Capital Cement Co. Inc. (Bidder/Proposer firm),

affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ which represents the above indicated total percentage % for the contract amount \$

(Signature of affiant) David Shonim (Date) 5/11/15

Subscribed and sworn to before me this 11 day of MAY, 2015

(Notary's Signature) (Notary Seal)





CHICAGO TRANSIT AUTHORITY

567 West Lake Street
Chicago, Illinois 60661-1498
TEL 312 654-7200
www.transitchicago.com

June 24, 2015

Ms. Kathleen Pope
Cable Design and Fixture
705 11th Street #200
Wilmette, IL 60091

Dear Ms. Pope:

Chicago Transit Authority, your host agency, is pleased to notify you that your firm has met the requirements for Disadvantaged Business Enterprise (DBE) program certification in accordance with the governing federal regulations, 49 CFR part 26.

This certification allows your firm to participate as a DBE in the Illinois Unified Certification Program (IL UCP). The participating agencies include the Illinois Department of Transportation, the City of Chicago, the Chicago Transit Authority, Metra, and Pace.

To remain certified with the IL UCP you must submit a *No Change Affidavit* annually. Your next *No Change Affidavit* is due June 24, 2016. A notification will be sent to you sixty (60) days prior to this date. It is your responsibility to ensure that your certification is kept current by submitting the required information in a timely manner. Failure to provide this information is a ground for removal of certification based on failure to cooperate pursuant to 49 CFR 26.109(c).

If there is any change in circumstances that affect your ability to meet size, disadvantaged status, ownership, or control requirements or any material change in the information provided in your application, you must provide written notification to this agency within thirty (30) days of the occurrence of the change.

Your firm's name will appear in the IL UCP DBE Directory, which is used by prime contractors/consultants, as well as other agencies, to solicit participation of DBE firms. The directory can be accessed at <https://cta.dbesystem.com/FrontEnd/VendorSearchPublic.asp>. Your firm's name will appear in the Directory under the following:

NAICS Code(s):

238990: ALL OTHER SPECIALTY TRADE CONTRACTORS
332323: ORNAMENTAL AND ARCHITECTURAL METAL WORK MANUFACTURING
337215: SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

Specialty:

238990: Special Trade Contractors
332323: Architectural metalwork manufacturing
337215: Showcase, Partition, Shelving, and Locker Manufacturing

Your participation on contracts will only be credited toward DBE contract goals when your firm performs in a Commercially Useful Function (CUF) in its approved are(s) of specialty.

Sincerely,

Mary Person
Senior Manager, Diversity Programs

Vendor Information

CLOSE WINDOW X

HELP

Vendor Information

Business Name: Cable Design, Inc.
 Owner: KATHLEEN POPE
 Address: 2929 N. Pulaski
 > [Map This Address](#) Chicago, IL 60641
 Phone: 847-256-9813
 Fax: 847-256-9814
 Email: cabledesign@sbcglobal.net
 Website: <http://www.cabledesigninc.com>

Certification Information

Certifying Agency: Chicago Transit Authority
 Certification Type: DBE - Disadvantaged Business Enterprise
 Expiration Date: 9/8/2015
 Certified Business Description: 238990-Special Trade Contractors
 332323-Architectural metalwork manufacturing
 337215-Showcase, Partition, Shelving, and Locker Manufacturing

Commodity Codes

Code	Description
NAICS 238990	All Other Specialty Trade Contractors (More)
NAICS 332323	Architectural metalwork manufacturing (More)
NAICS 337215	Showcase, Partition, Shelving, and Locker Manufacturing (More)

Customer Support

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[Print This Page](#)

Unified Certification Program - Search

Contractor Details

Browse F.A.Q. Sheet (UCP/Search/Help)

int |

able Design, Inc.

THLEEN POPE

:9 N. Pulaski

cago, IL 60641-0000

District: District 1

Phone: 847-256-9813

Fax: 847-256-9814

Email: cabledesign@sbcglobal.net

Location: District 1

egories: Miscellaneous, Supplier

ICS

990-All Other Specialty Trade Contractors

323-Ornamental and Architectural Metal Products Manufacturing

215-Office Furniture (including Fixtures) Manufacturing

Speciality

238990-Special Trade Contractors 332323-Architectural metalwork

manufacturing 337215-Showcase, Partition, Shelving, and Locker

Manufacturing

15 Illinois Department of Transportation

Version: 1.1.18.4015



COOK COUNTY DEPARTMENT OF HIGHWAYS
DBE Utilization Plan

Subcontractor Registration Number 14442

Letting C-91-424-14

Participation Statement

Item No. _____

(1) Instructions

Contract No. 1555-14616

This form must be completed for each disadvantaged business participating in the Utilization Plan. This form shall be submitted in accordance with the special provision and will be attached to the Utilization Plan form. If additional space is needed complete an additional form for the firm.

(2) Work

Pay Item No.	Description	Quantity	Unit Price	Total
6	Traffic Control Device Detour	1.0	13,000	13,000
7	Traffic Control Device Detour - North	1.0	10,000	10,000
8	Traffic Control Device Detour - South	1.0	10,000	10,000
9	Changeable Message Center	20.0	925.00	18,500
13	PAVT Mark Tape 4" Type 3	15,000.00	0.90	13,500
161	Sign Panel Type 1	263.00	22.00	5,786
Total				71,286

(3) Partial Payment Items

For any of the above items which are partial pay items, specifically describe the work and subcontract dollar amount:

(4) Commitment

The undersigned certify that the information included herein is true and correct, and that the DBE firm listed below has agreed to perform a commercially useful function in the work of the contract item(s) listed above and to execute a contract with the prime contractor. The undersigned further understand that no changes to this statement may be made without prior approval from the Cook County Highway Department and that complete and accurate information regarding actual work performed on this project and the payment therefore must be provided to the department.

David Slonim
Signature for Prime Contractor

[Signature]
Signature for DBE Firm

Title VICE PRESIDENT

Title President

Date 5/11/2015

Date May 13, 2015

Contact Person DAVID SLONIM

Contact Person Michael Smith

Phone 773-478-2200

Phone 312.425.1962

Firm Name CAPLID CEMENT CO., INC

Firm Name Smith Maintenance Company

Address 6231 N. PULASKI RD

Address 205 W. Randolph Street, Suite 925

City/State/Zip CHICAGO, IL 60646

City/State/Zip Chicago, Illinois 60606

E _____
WC _____

The Cook County Highway Department is not liable for the accuracy of information provided by the contractor. The contractor is required to provide accurate information to the department. This form has been approved by the Base Form Management Office.

COOK COUNTY LETTER OF INTENT
(Section 2)

FROM DBE TO PERFORM AS SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT

Contract Title & Number: CENTER STREET / 171ST STREET TO 159 STREET

From: _____ (DBE Firm)

To: CAPITOL CEMENT COMPANY, INC (Bidder/Proposer Firm) and the County of Cook

The Undersigned is prepared to provide the following services, supplies and project in connection with the above named contract (the "Contract"): Each service performed and/or item supplied will be detailed under Description of Service/Supply and Project with all services/items listed under Fee/Cost to equal the full dollar amount of the Letter of Intent. This form must be completed for each disadvantaged business participating in the Utilization Plan. Attach this form to the Utilization Plan form. If additional space is needed, complete an additional form for the firm.

Pay Item No.	Description	Quantity	Fee/Cost	%
			\$	%
			\$	%
	<u>See Attached</u>		\$	%
			Total: \$ <u>71,286⁰⁰</u>	%

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/Supply and Fee/Cost were completed.

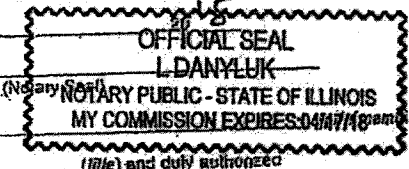
Upon Penalty of perjury, I Felicia Brannan (Title)

representative of the ESJ (Title) and duly authorized representative of the Smith Associates (DBE)

(I/We) affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ 71,286 which represents

the above indicated total percentage _____ % for the contract amount \$ 5,123,115 (Date)

Subscribed and sworn to before me this 13 day of MAY
[Signature]
(Notary's Signature)



Upon penalty of perjury, DAVID SLONIM

I/We VICE PRESIDENT (Title) and duly authorized representative of CAPITOL CEMENT COMPANY, INC (Bidder/Proposer firm),

affirm that the foregoing information is true and correct and the services, supplies, and/or project indicated above will be supplied/performed for the above indicated total dollar amount \$ _____ which represents the above indicated total percentage _____ % for the contract amount \$ _____

[Signature] (Signature of affiant) 05 / 11 / 2015 (Date)

Subscribed and sworn to before me this 11 day of MAY 20 15
[Signature]
(Notary's Signature)





SMITH MAINTENANCE WILL BE A SUB ON THIS PROJECT

PHONE: 630-497-3478

FAX: 630-497-1737

Felix Giammarino (224) 828-0248 cell

LETTING: 5/13/2015

CONTRACT #: C-91-424-14

COUNTY: COOK

LOCATION: CENTER AND 171ST

ITEM #:

Quoted Per Stage Per Plan as a package

COMP DATE: JULY 31 2016

CAL. DAYS:

ITEM NUMBER	DESCRIPTION	U/M	QUANTITY	UNIT PRICE	EXTENSION
5	TRAFFIC PROTECTION	LS	1.00	116,000.00	X 116,000.00
6	TRAFFIC CONTROL DEVICES DETOUR	LS	1.00	13,500.00	13,500.00
7	TRAFFIC CONTROL DEV DETOUR NORTH	LS	1.00	10,000.00	10,000.00
8	TRAFFIC CONTROL DEV DETOUR SOUTH	LS	1.00	10,000.00	10,000.00
9	CHANGEABLE MESSAGE CENTERS	CAL MO	20.00	925.00	18,500.00
13	PVT MARK TAPE TYPE 3 4 INCH	FOOT	15000.00	0.90	13,500.00
161	SIGN PANEL TYPE 1	SF	263.00	22.00	5,786.00
162	REMOVE SIGN PANEL ASSY	EACH	48.00	40.00	X 1,920.00
163	TELE SCOPE STEEL SIGN SUPPORT	FOOT	766.00	12.00	X 9,192.00
171	ERADICATING OF EXISTING MARKINGS	SF	1000.00	5.00	X 5,000.00

Devices

Total \$ 203,398.00

Price includes - UP TO 26,000 LF OF 4 INCH TEMP TYPE 3 TAPE AND 21,050 LF OF 4 INCH PAINT
 ANY ADDITIONAL MARKINGS WILL BE BILLED.

PRICE DOES NOT INCLUDE:

- * Flagger or AFADS, Temp striping, Cones, Temp attenuators includes crash barrels only
- * Temporary lane closures, Temp Fence, Delineator post, Sign coring, plating, welding, sediment control
- * Responsibility for removing, relocating, storing, covering or replacing existing signage, lighting
- * Temporary access drives, Temp signals, aggregate work, R X R insurance, erosion control,
- * Removal or obliteration of conflicting pvt markings using water blasting, temp closures for striping, Draiage issues
- * Barrier Wall, Attenuator or bases, Surveillance, Wall reflectors, Message centers, wedges
- * Insurance limits \$1,000,000 G/L and \$5,000,000 Umbrella, fall protection

***** This quote is valid for 60 days

CENTER STREET
 171ST STREET TO 159TH STREET
 COUNTY HIGHWAY W52 - SECTION 02-W5208-02-RP
 FEDERAL AID PROJECT NO. M - 4003(379)
 FEDERAL JOB NO. C-91-424-14
 SMITH MAINTENANCE COMPANY

ITEM NO.	QUANTITIES	UNIT	PAY ITEM
6	1	L SUM	TRAFFIC CONTROL DEVICES - DETOUR ROUTING
7	1	L SUM	TRAFFIC CONTROL DEVICES - DETOUR ROUTING - NORTH CROSSING
8	1	L SUM	TRAFFIC CONTROL DEVICES - DETOUR ROUTING - SOUTH CROSSING
9	20	CAL MO	CHANGEABLE MESSAGE SIGN
13	15000	FOOT	PAVEMENT MARKING TAPE, TYPE III 4"
161	263	SQ FT	SIGN PANEL, TYPE 1

UNIT COST	TOTAL COST
\$ 13,500.00	\$ 13,500.00
\$ 10,000.00	\$ 10,000.00
\$ 10,000.00	\$ 10,000.00
\$ 925.00	\$ 18,500.00
\$ 0.99	\$ 13,500.00
\$ 22.00	\$ 5,786.00
TOTAL	\$ 71,286.00



Illinois Department of Transportation

Office of Business & Workforce Diversity
2300 South Dirksen Parkway / Springfield, Illinois 62764

April 23, 2015

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. Michael Smith
Smith Maintenance Company
205 W. Randolph St., Ste. 925
Chicago, IL 60606

To Whom It May Concern:

Smith Maintenance Company's No Change Affidavit is presently under review. Until such time as a decision is rendered, the firm remains certified as a Disadvantaged Business Enterprise with the Illinois Unified Certification Program.

If you have any questions or concerns, please contact my office at (217) 782-5490.

Sincerely,

A handwritten signature in black ink that reads "Debra A. Clark" with a small asterisk at the end.

Debra A. Clark, Manager
Certification Section
Bureau of Small Business Enterprises

Unified Certification Program - Search

Contractor Details

[Browse F.A.Q. Sheet \(/UCP/Search/Help\)](#)

[Print](#)

Smith Maintenance Company

Michael Smith
205 W. Randolph St., Ste. 925
Chicago, IL 60606

District: 1

Phone: (312) 425-1962

Fax: (312) 425-1950

Email: mike@smithmaint.com

Location: 1,2,3,4,5,6,7

Categories: Construction

NAICS

237130-Power and Communication Line and Related Structures
237310-Highway, Street, & Bridge Construction
237990-Other Heavy and Civil Engineering Construction
238910-Site Preparation Contractors
561990-All Other Support Services

Speciality

237130- UNDERGROUND UTILITIES
237310- PAVEMENT PATCHING
237990- DRAINAGE
238910- EXCAVATING & GRADING
DEMOLITION
561990- TRAFFIC CONTROL

PETITION FOR WAIVER OF DBE PARTICIPATION
(SECTION 3)

A. BIDDER/PROPOSER HEREBY REQUESTS:

- FULL DBE WAIVER
- FULL DBE WAIVER
- REDUCTION (PARTIAL DBE PARTICIPATION)
 _____ % of Reduction for DBE Participation
 _____ % of Reduction for DBE Participation

B. REASON FOR FULL/REDUCTION WAIVER REQUEST

Bidder/Proposer shall check each item applicable to its reason for a waiver request. **Additionally, supporting documentation shall be submitted with this request. All supporting documentations shall be submitted with bid/proposal/quotation.**

- 1) Lack of sufficient qualified DBE capable of providing the goods or services required by the contract (please explain)
- 2) The specifications and necessary requirements for performing the Contract make it impossible or economically infeasible to divide the Contract to enable the contractor to utilize DBE in accordance with the applicable participation (please explain)
- 3) Price quoted by potential DBE are above competitive levels and increase cost of doing business and would make acceptance of such DBE bid economically impracticable, taking into consideration the percentage of total contract price represented by such DBE bid (please explain)
- 4) There are other relevant factors making it impossible or economically infeasible to utilize and/or DBE firms (please explain)

C. GOOD FAITH EFFORTS TO OBTAIN DBE PARTICIPATION

Bidder/Proposer shall check each item applicable to its reason for a waiver request. Additionally, supporting documentation shall be submitted with this request. All supporting documentation shall be submitted with bid/proposal/quotation.

- 1) Made timely written solicitation to identified DBE for utilization of goods and/or services; and provided DBE with a timely opportunity to review and obtain relevant specifications, terms and conditions of the bid to enable DBE to prepare an informed response to solicitation (please attach)
- 2) Followed up initial solicitation of DBE to determine if firms are interested in doing business (please attach)
- 3) Advertised in a timely manner in one or more daily newspapers and/or trade publication for DBE for supply of goods and services (please attach)
- 4) Use the services and assistance of the Contract Administrator (please explain)
- 5) Engaged DBE for indirect participation (please explain)

D. OTHER RELEVANT INFORMATION

Attach any other documentation relative to Good Faith Efforts in complying with DBE participation.

DBE GOOD FAITH EFFORTS CHECKLIST

This Checklist must be submitted with the Bid if the Project Specific DBE Goal was not fully achieved. Attach the Log of Contacts and additional sheets as necessary and other documentation to support Good Faith Efforts. If any of the items below were not completed, attach a detailed written explanation why each such item was not completed. If any other efforts were made to obtain DBE participation in addition to the items listed below, attach a detailed written explanation.

CHECKED BY BIDDER IF COMPLETED

- _____ Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.

- _____ Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.

- _____ Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

- _____ a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.

- _____ b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.

- _____ Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.

- _____ Made efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as may be required for performance of the contract (if applicable).

- _____ Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.

- _____ Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.

**Good Faith Efforts Contacts Log for Soliciting
DBE Subcontractor or Supplier Participation
(Please duplicate as needed)**

Use this form to document all contacts and responses (telephone, e-mail, fax, etc.) regarding the solicitation of subconsultants, subcontractors and suppliers. Duplicate as needed. (It is not necessary to show contacts with which the Vendor reached an agreement to participate on this project, as shown on the DBE Utilization Plan.)

Name of DBE Subcontractor/Supplier: _____

Contact Person: _____ Title: _____

Address: _____

E mail: _____ Telephone No: _____

Date of contract: _____ Method of contact: _____

Scope of work solicited: _____

Reason agreement was not reached: _____

Name of DBE Subcontractor/Supplier: _____

Contact Person: _____ Title: _____

Address: _____

E mail: _____ Telephone No: _____

Date of contract: _____ Method of contact: _____

Scope of work solicited: _____

Reason agreement was not reached: _____

Name of DBE Subcontractor/Supplier: _____

Contact Person: _____ Title: _____

Address: _____

E mail: _____ Telephone No: _____

Date of contract: _____ Method of contact: _____

Scope of work solicited: _____

Reason agreement was not reached: _____

SURETY'S STATEMENT
of
QUALIFICATION FOR BONDING
(Section 10)

This document must be accurately executed (by the Surety Company) and yielded as part of this Bid.

IF THIS DOCUMENT IS NOT ACCURATELY EXECUTED AND SUBMITTED WITH THE BID PACKAGE, THIS CONSTITUTES CAUSE FOR DISQUALIFICATION OF THE VENDOR FROM BIDDING ON THIS CONTRACT.

The undersigned confirms that: Travelers Casualty and Surety Company of America
(SURETY COMPANY)

would execute a Performance/Payment Bond in favor of the County of Cook for the full amount
of the bid/contract: Contract No 1555-14616
(NUMBER)

to: Capitol Cement Company, Inc.
(BIDDER)

The penalty of this bond is to be \$ 11,250,000.00
(TOTAL DOLLAR AMOUNT OF CONTRACT)

SURETY Travelers Casualty and Surety Company of America
(SURETY COMPANY'S AUTHORIZED SIGNATURE)

CORPORATE



Ila Delman

(ATTORNEY-IN-FACT) Ila Delman

03609

31194

AMB #

NAIC

SEAL



**COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
TRUST AGREEMENT**

THIS TRUST AGREEMENT is made and entered into by and between the County of Cook, by and through the Department of Transportation and Highways, whose address is 69 West Washington, Suite 2300, Chicago, Illinois, 60602, hereinafter called the COUNTY, and Capitol Cement Company, Inc. whose address is 6231 North Pulaski Road Chicago IL hereinafter called the CONTRACTOR, and The Private Bank a FINANCIAL INSTITUTION or trust company located in Cook County, whose deposits are insured by an agency or instrumentality of the federal government and whose address is 120 South LaSalle Street Chicago IL, phone number (312) 564-1239 hereinafter called the FINANCIAL INSTITUTION. Contact person being John O'Connell

WITNESSETH:

WHEREAS the COUNTY has awarded to the CONTRACTOR Cook County Contract Number **1555-14616, CENTER STREET – 171ST Street to 159th Street (In the Village of Harvey), Section Number 02-W5208-02-RP, Route W52, in Thornton Township, Federal Job No. : C-91-424-14, Federal Project No.: M-4003(379)** providing for the construction of a COUNTY highway improvement for a total price of \$ 9,487,711.07 dollars; and

WHEREAS under Section 5-409 of the Illinois Highway Code, as amended, the COUNTY is authorized to make progress payments as the CONTRACTOR performs the work under the contract and may retain a percentage of progress payments; and

WHEREAS the COUNTY may, at the request of CONTRACTOR, deposit the retainage under a Trust Agreement with a FINANCIAL INSTITUTION of the CONTRACTOR'S choice which is located in Cook County and has been approved for the deposit of such funds by the Superintendent of the Cook County Department of Transportation and Highways pursuant to Cook County Code Section 34-36; and

WHEREAS by execution of this Agreement, the CONTRACTOR and said FINANCIAL INSTITUTION request that the retainage be deposited with said FINANCIAL INSTITUTION as provided by law.

NOW THEREFORE, the parties do hereby agree that:

1. This Agreement shall not change any of the rights, duties, privileges or responsibilities of the parties to the above-referenced construction contract, except as may be provided herein.
2. Notwithstanding the provisions of this Agreement, the COUNTY may withhold progress payments or any portion thereof on account of lien claims, liquidated damages, or as may otherwise be provided by the above contract or by law.
3. All progress payments, including final payment under the above contract, shall be made by COUNTY warrants payable to the CONTRACTOR and FINANCIAL INSTITUTION, as trustee, jointly, and such payments shall be sent to the FINANCIAL INSTITUTION at the above address.
4. The progress payments shall specify on a copy of the COUNTY'S invoice to be mailed with the warrant the amount thereof to be paid to the CONTRACTOR and the amount to be held by the FINANCIAL INSTITUTION as retainage under this Agreement.

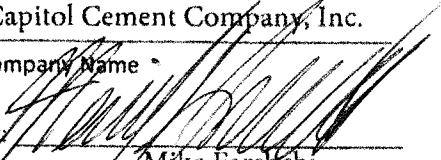
5. The money so held by the FINANCIAL INSTITUTION shall be described as "retainage" and shall be held in trust according to the terms of this Agreement. Interest earned on the retainage may be paid to the CONTRACTOR as it accrues or as the FINANCIAL INSTITUTION'S policy permits.
6. The principal balance of the retainage, or any part thereof, shall not be paid over to the CONTRACTOR except upon written directive to the FINANCIAL INSTITUTION by the COUNTY.
7. The FINANCIAL INSTITUTION may invest or reinvest said retainage in:
 - a. Certificates of Deposit issued by a financial institution whose principal office is located in Cook County, including this FINANCIAL INSTITUTION;
 - b. United States Government Bonds;
 - c. United States Treasury Notes;
 - d. United States Treasury Bills;
 - e. Time Deposit on Open Account.

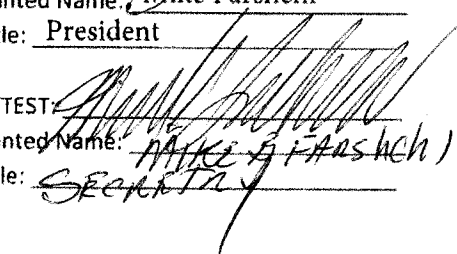
Provided, however, that the investment of said retainage shall not relieve the FINANCIAL INSTITUTION from the return or repayment of such funds within ninety (90) days as provided in this Agreement.

8. Retainage is the property of the COUNTY until notice of final payment, and the principal amount, or any part thereof, shall not be pledged or used as security for any purpose.
9. The COUNTY shall be the sole judge of return or repayment of the funds to the Cook County Treasurer. Upon written demand made by the COUNTY to the FINANCIAL INSTITUTION for the return or repayment of the retainage, the FINANCIAL INSTITUTION shall make such return or repayment regardless of whether the COUNTY shall state any reason therefor and without imposition of any other requirements or conditions.
10. The repayment or return of retainage to the COUNTY shall be by check from the FINANCIAL INSTITUTION payable to the Treasurer of Cook County and shall be mailed to the COUNTY within ninety (90) days after the COUNTY'S demand.
11. The CONTRACTOR does not waive or release any rights he has against the COUNTY for breach of contract, including this Agreement, by reason of the repayment by the FINANCIAL INSTITUTION to the COUNTY on account of demand made by the COUNTY.
12. In the event demand for the retainage is made under this Agreement by the COUNTY, the COUNTY may specify, in its sole judgment, the amount to be repaid or returned as all or part of the principal balance of the retainage. This Agreement shall continue as to any retainage not returned to the COUNTY and any future payments by the COUNTY to the CONTRACTOR.
13. Upon return or repayment of the full principal balance of the retainage to the COUNTY, this Agreement shall terminate and have no further force or effect.
14. The COUNTY shall request confirmation of account balances as of June 30 of each year, and the FINANCIAL INSTITUTION shall comply with this request. The FINANCIAL INSTITUTION'S failure to comply with this provision shall be reason to demand return of the retainage pursuant to this Agreement.
15. The COUNTY shall provide notice of final payment to the FINANCIAL INSTITUTION and the CONTRACTOR. When said final payment is made, this Agreement shall be terminated and the retainage or interest thereon shall be paid to the CONTRACTOR by the FINANCIAL INSTITUTION. The COUNTY and the CONTRACTOR agree that the date of mailing such notice of final payment to the FINANCIAL INSTITUTION shall constitute the date of final payment to the CONTRACTOR under the contract. Any provisions of the contract regarding final payment shall be deemed to have been complied with regardless of any delay in the CONTRACTOR'S receiving said final payment or any retainage and interest thereon from the FINANCIAL INSTITUTION.
16. The FINANCIAL INSTITUTION shall look only to the CONTRACTOR to pay any costs or fees for either its services or expenses hereunder and no deduction shall be made therefor for any retainage or interest thereon except such deduction that may be made after final payment has been made.
17. Failure of the FINANCIAL INSTITUTION to comply with any of the terms of this Agreement shall be cause for the COUNTY to refuse approval of the FINANCIAL INSTITUTION as a party to any future Trust Agreements.

IN WITNESS WHEREOF the parties to this Trust Agreement have hereunder signed and executed this Trust Agreement this _____ day of _____, 20__.
(To be dated by the COUNTY.)

CONTRACTOR

Capitol Cement Company, Inc.
Company Name _____
By: 
Printed Name: Mike Farshchi
Title: President

ATTEST: 
Printed Name: Mike Farshchi
Title: SECRETARY

CONTRACTOR (IF JOINT VENTURE)

Company Name _____
By: _____
Printed Name: _____
Title: _____

ATTEST: _____
Printed Name: _____
Title: _____

CONTRACTOR (IF JOINT VENTURE)

Company Name _____
By: _____
Printed Name: _____
Title: _____

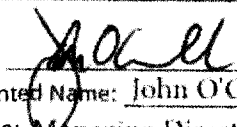
ATTEST: _____
Printed Name: _____
Title: _____


CONTRACTOR (IF JOINT VENTURE)

Company Name _____
By: _____
Printed Name: _____
Title: _____

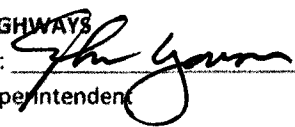
ATTEST: _____
Printed Name: _____
Title: _____

FINANCIAL INSTITUTION

The Private Bank
By: 
Printed Name: John O'Connell
Title: Managing Director

ATTEST: 
Printed Name: Catherine Kelly
Title: Commercial Banking Specialist

COOK COUNTY

DEPARTMENT OF TRANSPORTATION AND
HIGHWAYS
By: 
Superintendent

Bond No. 106239630

PERFORMANCE AND PAYMENT BOND TO THE COUNTY OF COOK

Know All Men by These Presents, That we, Capitol Cement Company, Inc.
as principle, and Travelers Casualty and Surety Company of America

_____, as surety, are held and firmly bound unto the County of Cook in the penal sum of Nine Million Four Hundred Eighty Seven Thousand Seven Hundred Eleven and 07/100 - Dollars (\$ 9,487,711.07), lawful money of the United States of America, for the payment of which sum of money well and truly to be made, we bind ourselves, our respective heirs, executors, administrators, successors and assigns, firmly, by these presents.

Signed, sealed, and delivered this 21st day of May A.D. 20 15

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, That whereas, the above bounded principle entered into a certain contract with the County of Cook, bearing date the day of AWARD OF CONTRACT for CENTER STREET - 171st Street to 159th Street (In the Village of Harvey) Section No.: W5208-02-RP, Route W52, Federal Job No. C-91-424-14, Project no.: M4003 (379) in Thornton Township; Cook County Contract No. 1555-14616

The terms and conditions of the Illinois Public Construction Bond Act, 30 ILCS 550

The terms and conditions of the Illinois Public Construction Bond Act, 30 ILCS 550 *et seq.* are hereby incorporated by reference.

It is hereby expressly understood and agreed, and made a condition hereof, that any judgment rendered in favor of any person not a party to said contract against the County of Cook in any suit arising out of said contract or its performance, when reasonable notice of the pendency of such suit shall have been given to said principle and to said surety, shall be conclusive against said principle and said surety as to both liability and amount.

In Witness Whereof, said parties hereto have caused this bond to be executed and delivered at Chicago, Illinois, all on the day and year first above written.

Capitol Cement Company, Inc.
PRINCIPAL/CONTRACTOR SEAL
By [Signature] PRESIDENT [Signature] SECRETARY

Travelers Casualty and Surety Company of America
SURETY SEAL
By Susan K. Landreth 03609 31194
SURETY/ATTORNEY-IN-FACT Susan K. Landreth AMB# NAIC#
(ATTACH POWER OF ATTORNEY)

Approved as to form:
By: [Signature]
ASSISTANT STATES ATTORNEY
PW5.18

ACKNOWLEDGEMENT OF SURETY

STATE OF ILLINOIS
COUNTY OF COOK

On this 21st day of May, 2015, before me personally came Susan K. Landreth to me known who being by so duly sworn, did depose and say: that he/she is

Attorney-In-Fact of Travelers Casualty and Surety Company of America

The Corporation described in and which executed the foregoing instrument; that he/she knows the seal of said Corporation; that the seal affixed by authority granted to him/her in accordance with By-Laws of the said Corporation, and that he/she signed his/her name thereto by like authority.

Ila Delman
Notary Public, Ila Delman





POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Surety Bond No. 106239630

Principal: Capitol Cement Company, Inc.

OR

Project Description: Center Street - 171st Street to 159th
Street, Village of Harvey

Obligee: Cook County

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc. is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"); and that the Companies do hereby make, constitute and appoint Susan K. Landreth of the City of Chicago, State of IL, their true and lawful Attorney-in-Fact, to sign, execute, seal and acknowledge the surety bond(s) referenced above.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 10th day of September, 2012.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut

City of Hartford ss.

By:

Signature of Robert L. Raney
Robert L. Raney, Senior Vice President

On this the 10th day of September, 2012, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2016.



Signature of Marie C. Tetreault
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

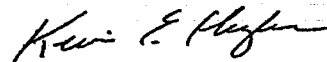
FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 21st day of May, 2015



Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

**CONTRACT
(SECTION 10)**

This AGREEMENT made and entered into this by and between the County of Cook, party of the first part and hereinafter called County, Capitol Cement Company, Inc. party of the second part and hereinafter called Contractor.

WITNESSETH:

That for and in consideration of the payments to be made by the said County as hereinafter provided, the said Contractor hereby covenants and agrees with the said County to do all the work and furnish all the labor, materials, machinery, apparatus, implements, tools, and other things necessary for the improvement of a section of the public highway known as Cook County Contract # **1555-14616, Federal Job No.: C-91-424-14, Federal Project No.: M-4003(379), CENTER STREET – 171ST Street to 159th Street (In the Village of Harvey)**; in the Township of **Thornton**, County of Cook, and State of Illinois, said section known or to be known as Section: **02-W5208-02-RP**, Route **W52** at his own cost and expense, free from all liens, claims, and charges whatsoever, and in a good substantial, thorough and workmanlike manner, and in strict and full accordance, conformity and compliance with all the terms and conditions of this contract and the requirements under it of the Superintendent of Department of Transportation and Highways of Cook County, Illinois, and under the direction and to the satisfaction of the said Superintendent of Department of Transportation and Highways.

It is expressly understood and agreed by and between said County and said Contractor that the Bid hereto attached and Notice to Contractors, Specifications, Plans, Maps, Blue Prints, and Drawings, on file in the Office of the Superintendent of Department of Transportation and Highways of Cook County, Illinois, and in the office of the Department of Transportation, Springfield, Illinois, copies of which are hereto attached, hereby are included in and made a part of this contract.

The Contractor shall not begin construction operations until the contract has been approved by the Board of Cook County Commissioners and fully executed by the County. Subsequent to contract execution, the Contractor will be notified by a notice-to-proceed letter from the Superintendent of Cook County Department of Transportation of Highways to commence operations on a specified date. The undersigned agrees to start construction operations on the date specified and to complete the proposed improvement in full compliance with the contract on or before **July 31, 2016**. The contract period is **August 6, 2015 through July 31, 2019**.

The Superintendent of Cook County Department of Transportation and Highways shall at the end of each month make an estimate in writing, such as in his opinion shall be just and fair, of the amount of materials furnished, delivered, properly set in place and incorporated into the herein described improvement, and the amount of work properly done by said Contractor in the performance of the work hereunder and the value thereof under and according to the terms of this contract.

The first estimate shall cover the amount of work performed and the value of the materials properly set in place and incorporated into the herein described improvement since said Contractor commenced the performance of this contract, and each subsequent estimate, except the final one, shall be of the amount of work performed and the value of the materials properly set in place and incorporated into said improvement since the last preceding estimate was made.

Such estimates of amount and quality shall not be required to be made by strict measurement, but shall be sufficient if they are made approximately only, and each such estimate shall be submitted to the Board of County Commissioners of Cook County and upon approval by said Board of Commissioners said County shall pay to said Contractor ninety per cent (90%) of the amount stated in said estimates.

At least one week before each payment falls due, said Contractor shall submit to said Superintendent of Department of Transportation and Highways requisition for such payment, and, shall, if required, submit therewith an itemized statement of the quantities and cost and proportionate profit of work performed to the termination of the period to be covered by such payment, together with an affidavit setting forth that the items in said statement are true and just, that the services were rendered, that the articles or materials were furnished, that the sum claimed is due and unpaid, after allowing all just credits, that all labor, materials, apparatus, fixtures, and machinery furnished or used have been paid for, and if not, stating those not paid for, giving the amount due, to whom due, and for what due, attaching to said affidavit waivers of lien from those mentioned in said exceptions as having unpaid claims, and such affidavit shall contain such other matter as may be deemed necessary by the said Superintendent of Department of Transportation and Highways to protect said County in its payments, and any such statement shall not be binding upon said Superintendent of Department of Transportation and Highways.

There shall be deducted from the amount so determined for the first fifty (50) percent of the completed work a sum of ten (10) percent to be retained until after the completion of the entire work to the satisfaction of the County. After fifty (50) percent or more of the work is completed, the County may, at its discretion, certify the remaining partial payments without any further retention, provided that satisfactory progress is being made, and provided that the amount retained is not less than five (5) percent of the total adjusted contract price.

It is expressly agreed by the parties hereto that in the event any defects or imperfections in the materials or workmanship to be furnished by the Contractor herein appear within the period of one year from the date of completion of all the work mentioned herein and the acceptance thereof by said County, the Contractor will, upon notice from the said Superintendent of Department of Transportation and Highways, (which notice may be given by letter mailed to said Contractor to the business address of the Contractor shown in the Proposal), repair and make good at his own cost any such defects or imperfections and replace any defective or imperfect materials or workmanship with other materials or workmanship satisfactory to said Superintendent of Department of Transportation and Highways, and furnish all such new materials and labor as may be necessary to do so; and in the event of the failure, refusal or delay of said Contractor to so make good, repair or replace said workmanship or materials, said County may do so or have same done by others, and said Contractor and the surety or sureties on his bond given for the

faithful performance of this contract shall be liable to the County of Cook for all damages and expense occasioned by such failure, refusal or delay.

It is expressly and mutually covenanted and agreed that all of the Plans and Specifications hereinbefore mentioned and this Instrument together are the documents forming the contract between said County and said Contractor and are correlative, and whatever may be provided for and required by one of said documents shall be as binding as if provided for and required by two or more of them.

The Contractor expressly agrees that not less than the general prevailing rate of wages as found by The Board of County Commissioners for the County of Cook in accordance with the provisions of "An Act regulating wages of laborers, mechanics and other workmen employed under contracts for public works", Approved June 26, 1941, as amended, or such wage rates as may be determined by the court on appeal as in said Act provided, shall be paid to all laborers, workmen and mechanics performing work under this contract. The prevailing wage rates as found by the said Board of County Commissioners are on file in the office of the County Clerk for the County of Cook.

It is expressly understood and agreed that if the said Contractor shall fail, refuse or neglect to comply with said contract and Plans and Specifications or any provisions therein contained, or to proceed according to the terms of said contract and Plans and Specifications or any part thereof, in the manner and at the time as directed by the said Superintendent of Department of Transportation and Highways, then the said County shall have the right, and The Board of County Commissioners of Cook County is hereby given authority on behalf of the said County to declare this contract forfeited, and the said County may re-bid the whole or any part thereof upon such terms as it may see fit without prejudice to any of its rights herein.

It is expressly understood and agreed by the parties hereto that the Superintendent of Department of Transportation and Highways shall fix and determine the amount of damages to be paid to said County by the said Contractor by reason of the failure or refusal to perform this contract or comply with the provisions thereof as aforesaid, and the said Contractor hereby agrees to be held liable for the amount so fixed and determined and agrees to pay such amount; and the said County shall apply in payment of any such amount so fixed and determined any and all sums on hand or due and owing to said Contractor, and if there be not sufficient money on hand or due and owing to said Contractor to balance and pay said amount so fixed and determined, then, in such case, any amount remaining unpaid shall be a valid and subsisting claim against the said Contractor and the surety or sureties on his bond given for the faithful performance of this agreement.

**Center Street
02-W5208-02-RP
1555-14616**

**CONTRACT
EXHIBIT A
SCHEDULING**

It is understood that time is of the essence to the contract. The following project milestones will apply to this contract. Failure to meet milestone dates listed below will result in liquidated damages being applied in accordance with Article 108.09 of the Standard Specifications. An extension of time for each requirement may be granted in accordance with Section 108.08 of the Standard Specifications.

Milestone 1

Requirement: **Submittal of Paperwork** including Progress Schedule, Request of Approval of Subcontractors and Request for Approval of Suppliers.

Due Date: 2 WEEKS FROM NOTICE TO PROCEED

Milestone 2

Requirement: Interim **Completion of All Work for Stages 1 and 2 from Sta. 10+24.98 to Sta. 37+80 and Stage 1 from Sta. 37+80 to Sta. 83+08.72**

Due Date: December 11, 2015

Milestone 3

Requirement: **Substantial Completion of Project and Pre-Final Inspection**

Due Date: July 31, 2016

Milestone 4

Requirement: **Completion of All Punch List Work and Final Inspection.**

Restrictions: Completion of all punch list work within 30 Calendar days from the Pre-Final inspection of each section of the contract

Due Date: August 31, 2016

Milestone 5

Requirement: **Return the Final Construction Report (Form 69)** with any changes indicated initialed and dated on the report and include any and all pertinent information to substantiate any changes.

Restrictions: Return the Final Construction Report (Form 69) within 21 days of receipt.

Due Date: February 28, 2017

Milestone 6

Requirement: **Submittal of All Required Closeout Paperwork** including but not limited to Contractor's Affidavit (BC 141), Affidavit of Subcontractors or Material Supplier (BC 151) for all subcontractors and suppliers utilized for this contract, D//M/WBE Payment Agreement (SBE 2115) for all minority subcontractors and all required missing documentation as indicated in the Final Construction Report (Form 69).

Due Date: July 31, 2019

Contractor: Capitol Cement Company Inc

Center Street
171st Street to 159th Street

Section No: 02-W5208-02-RP

SCHEDULE OF PRICES

ITEM NO.	QUAN-TITIES	UNIT	PAY ITEM	UNIT COST	TOTAL COST
1	12	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A	\$ 3,000.00	\$ 36,000.00
2	1	L SUM	CONSTRUCTION LAYOUT STAKES AND SURVEY CONTROL POINTS	\$ 140,000.00	140,000.00
3	1	L SUM	RAILROAD PROTECTIVE LIABILITY INSURANCE	\$ 50,000.00	50,000.00
4	2	EACH	SURVEY MONUMENTS	\$ 1,500.00	3,000.00
5	1	L SUM	TRAFFIC PROTECTION	\$ 296,000.00	296,000.00
6	1	L SUM	TRAFFIC CONTROL DEVICES - DETOUR ROUTING	\$ 13,500.00	13,500.00
7	1	L SUM	TRAFFIC CONTROL DEVICES - DETOUR ROUTING - NORTH CROSSING	\$ 10,000.00	10,000.00
8	1	L SUM	TRAFFIC CONTROL DEVICES - DETOUR ROUTING - SOUTH CROSSING	\$ 10,000.00	10,000.00
9	20	CAL MO	CHANGEABLE MESSAGE SIGN	\$ 925.00	18,500.00
10	4000	POUND	BITUMINOUS MATERIALS (PRIME COAT)	\$ 1.41	5,640.00
11	770	TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	\$ 94.29	72,603.30
12	1437	SQ YD	TEMPORARY BY-PASS PAVEMENT	\$ 81.36	116,914.32
13	15000	FOOT	PAVEMENT MARKING TAPE, TYPE III 4"	\$ 0.90	13,500.00
14	50	FOOT	TEMPORARY CONCRETE BARRIER	\$ 121.00	6,050.00
15	50	FOOT	RELOCATE TEMPORARY CONCRETE BARRIER	\$ 101.00	5,050.00
16	2	EACH	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	\$ 8,500.00	17,000.00
17	2	EACH	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	\$ 1,850.00	3,700.00
18	300	FOOT	TEMPORARY CHAIN LINK FENCE	\$ 2.00	600.00
19	1	L SUM	CRUSHED STONE (TEMPORARY USE)	\$ 40,000.00	40,000.00
20	18	UNIT	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	\$ 80.00	1,440.00
21	39	UNIT	TREE REMOVAL (OVER 15 UNITS DIAMETER)	\$ 80.00	3,120.00
22	26220	CU YD	EARTH EXCAVATION	\$ 25.00	655,500.00
23	4640	CU YD	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	\$ 40.00	185,600.00
24	4815	CU YD	POROUS GRANULAR EMBANKMENT	\$ 15.00	72,225.00
25	663	SQ YD	AGGREGATE BASE COURSE, TYPE B 4"	\$ 8.00	5,304.00
26	574	SQ YD	AGGREGATE BASE COURSE, TYPE B 10"	\$ 12.00	6,888.00
27	30530	SQ YD	AGGREGATE SUBGRADE, 12 IN.	\$ 20.00	610,600.00
28	72	TON	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	\$ 218.83	15,755.76
29	48	TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	\$ 223.83	10,743.84
30	25731	SQ YD	PORTLAND CEMENT CONCRETE PAVEMENT 12"	\$ 78.00	2,007,018.00
31	636	SQ YD	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	\$ 65.00	41,340.00
32	20	SQ FT	DETECTABLE WARNINGS	\$ 55.00	1,100.00
33	1298	FOOT	COMBINATION CURB AND GUTTER REMOVAL	\$ 4.00	5,192.00
34	231	FOOT	CUTTING HOT-MIX ASPHALT SURFACE	\$ 5.00	1,155.00

CONTINUED ON NEXT PAGE

SCHEDULE OF PRICES

ITEM NO.	QUANTITIES	UNIT	PAY ITEM	UNIT COST	TOTAL COST
35	1954	SQ YD	HOT-MIX ASPHALT SHOULDERS, 6"	\$ 51.05	\$ 99,751.70
36	27	SQ YD	PORTLAND CEMENT CONCRETE SHOULDERS 8"	\$ 125.00	3,375.00
37	79	SQ YD	PAVEMENT REPLACEMENT	\$ 175.00	13,825.00
38	145	TON	HOT-MIX ASPHALT PLUG AT RAILROAD CROSSING	\$ 194.52	28,205.40
39	14395	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	\$ 22.00	316,690.00
40	5812	FOOT	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	\$ 20.00	116,240.00
41	50	FOOT	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	\$ 175.00	8,750.00
42	4	EACH	TRAFFIC BARRIER TERMINAL, TYPE 2	\$ 950.00	3,800.00
43	4	EACH	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL	\$ 2,550.00	10,200.00
44	2	EACH	TRAFFIC BARRIER TERMINAL, TYPE 11	\$ 500.00	1,000.00
45	6210	FOOT	GUARDRAIL REMOVAL	\$ 3.75	23,287.50
46	80	FOOT	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	\$ 250.00	20,000.00
47	750	CU YD	NON-SPECIAL WASTE DISPOSAL	\$ 129.00	96,750.00
48	1	L SUM	SPECIAL WASTE PLANS AND REPORTS	\$ 7,500.00	7,500.00
49	1	EACH	SOIL DISPOSAL ANALYSIS	\$ 5,750.00	5,750.00
50	300	FOOT	CHAIN LINK FENCE, 6' (SPECIAL)	\$ 26.00	7,800.00
51	300	FOOT	FENCE REMOVAL	\$ 5.00	1,500.00
52	177	FOOT	RAILROAD TRACK REMOVAL	\$ 50.00	8,850.00
53	6604	CU YD	TRENCH BACKFILL	\$ 21.15	139,674.60
54	500	FOOT	EXPLORATION TRENCH 52" DEPTH	\$ 58.40	29,200.00
55	4	EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	\$ 950.00	3,800.00
56	1	EACH	CONCRETE END SECTION, STANDARD 542001, 15", 1:2	\$ 2,000.00	2,000.00
57	2	EACH	CONCRETE END SECTION, STANDARD 542001, 18", 1:2	\$ 2,500.00	5,000.00
58	770	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 12 IN.	\$ 75.00	57,750.00
59	275	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 15 IN.	\$ 58.70	16,142.50
60	77	FOOT	STORM SEWERS, TYPE 1 (RCCP CLASS IV) 18 IN.	\$ 66.85	5,147.45
61	1018	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 12 IN.	\$ 82.00	83,476.00
62	125	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 15 IN.	\$ 95.00	11,875.00
63	350	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 18 IN.	\$ 84.20	29,470.00
64	593	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 24 IN.	\$ 100.05	59,329.65
65	601	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 30 IN.	\$ 129.55	77,859.55
66	701	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 36 IN.	\$ 200.85	140,795.85
67	832	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 42 IN.	\$ 211.90	176,300.80
68	1243	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS III) 48 IN.	\$ 242.55	301,489.65

SCHEDULE OF PRICES

ITEM NO.	QUANTITIES	UNIT	PAY ITEM	UNIT COST	TOTAL COST
69	1175	FOOT	STORM SEWERS, TYPE 2 (RCCP CLASS IV) 54 IN.	\$ 250.95	\$ 294,866.25
70	79	FOOT	STORM SEWER REMOVAL, 6"	\$ 20.30	1,603.70
71	28	FOOT	STORM SEWER REMOVAL, 10"	\$ 31.90	893.20
72	250	FOOT	STORM SEWER REMOVAL, 12"	\$ 43.75	10,937.50
73	473	FOOT	STORM SEWER REMOVAL, 15"	\$ 43.05	20,362.65
74	100	FOOT	STORM SEWER REMOVAL, 18"	\$ 67.10	6,710.00
75	238	FOOT	STORM SEWER REMOVAL, 24"	\$ 68.60	16,326.80
76	53	FOOT	STORM SEWER REMOVAL, 36"	\$ 81.50	4,319.50
77	105	FOOT	STORM SEWER REMOVAL, 54"	\$ 109.50	11,497.50
78	79	FOOT	BORING AND JACKING STORM SEWERS, 54 IN.	\$ 1,262.95	99,773.05
79	1	EACH	FIRE HYDRANTS TO BE MOVED	\$ 1,400.10	1,400.10
80	1	EACH	FIRE HYDRANTS	\$ 12,755.90	12,755.90
81	1	EACH	FIRE HYDRANTS VERTICAL ADJUSTMENT (24 IN. OR LESS)	\$ 1,136.70	1,136.70
82	1	EACH	FIRE HYDRANTS VERTICAL ADJUSTMENT (OVER 24 IN.)	\$ 1,605.10	1,605.10
83	385	FOOT	PIPE UNDERDRAINS, PERFORATED POLYVINYL CHLORIDE PIPE, 6 IN.	\$ 30.00	11,550.00
84	71	EACH	CATCH BASINS, TYPE A2, 4 FT. DIA WITH FRAMES AND GRATES	\$ 3,000.00	213,000.00
85	50	EACH	CATCH BASINS, TYPE C, 2 FT. DIA WITH FRAMES AND GRATES	\$ 2,000.00	100,000.00
86	4	EACH	MANHOLES, TYPE A, 4 FT. DIA WITH FRAMES AND GRATES	\$ 2,474.40	9,897.60
87	9	EACH	MANHOLES, TYPE A, 5 FT. DIA WITH FRAMES AND GRATES	\$ 4,225.05	38,025.45
88	8	EACH	MANHOLES, TYPE A, 6 FT. DIA WITH FRAMES AND GRATES	\$ 8,151.35	65,210.80
89	2	EACH	MANHOLES, TYPE A, 7 FT. DIA WITH FRAMES AND GRATES	\$ 11,640.90	23,281.80
90	1	EACH	MANHOLES, TYPE A, 8 FT. DIA WITH FRAMES AND GRATES	\$ 14,641.00	14,641.00
91	2	EACH	MANHOLES, PRECAST "T" (48 IN. DIA STORM SEWER) WITH FRAMES AND GRATES	\$ 2,842.70	5,685.40
92	3	EACH	MANHOLES, PRECAST "T" (54 IN. DIA STORM SEWER) WITH FRAMES AND GRATES	\$ 4,517.60	13,552.80
93	12	EACH	INLETS, TYPE A, 2 FT. DIA WITH FRAMES AND GRATES	\$ 1,750.00	21,000.00
94	5	EACH	CATCH BASINS TO BE ADJUSTED	\$ 500.00	2,500.00
95	3	EACH	MANHOLES TO BE ADJUSTED	\$ 500.00	1,500.00
96	1	EACH	WATERPROOFING EXISTING SANITARY MANHOLES TO BE ADJUSTED	\$ 500.00	500.00
97	8	EACH	VALVE VAULTS TO BE ADJUSTED	\$ 500.00	4,000.00
98	2	EACH	LIDS, TYPE 1, OPEN LID	\$ 250.00	500.00
99	2	EACH	LIDS, TYPE 1, CLOSED LID	\$ 250.00	500.00
100	2	EACH	FRAMES AND LIDS, TYPE 1, OPEN LID	\$ 250.00	500.00
101	2	EACH	FRAMES AND LIDS, TYPE 1, CLOSED LID	\$ 250.00	500.00
102	2	EACH	REMOVING MANHOLES	\$ 1,090.80	2,181.60

SCHEDULE OF PRICES

ITEM NO.	QUAN-TITIES	UNIT	PAY ITEM	UNIT COST	TOTAL COST
103	5	EACH	REMOVING CATCH BASINS	\$ 1,276.15	\$ 6,380.75
104	1	EACH	REMOVING INLETS	\$ 533.45	533.45
105	4	EACH	FLARED END SECTIONS TO BE REMOVED (12 IN. DIA RCCP)	\$ 269.30	1,077.20
106	5	EACH	FLARED END SECTIONS TO BE REMOVED (15 IN. DIA RCCP)	\$ 465.55	2,327.75
107	4	EACH	FLARED END SECTIONS TO BE REMOVED (24 IN. DIA RCCP)	\$ 555.30	2,221.20
108	2	EACH	PLUGGING EXISTING DRAINS AND SEWERS (12 IN. OR LESS)	\$ 461.50	923.00
109	2	EACH	PLUGGING EXISTING DRAINS AND SEWERS (OVER 12 IN.)	\$ 19.00	38.00
110	2	EACH	CLEANING EXISTING CATCH BASINS	\$ 225.00	450.00
111	2	EACH	CLEANING EXISTING MANHOLES	\$ 225.00	450.00
112	680	FOOT	CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT, 16 IN.	\$ 171.15	116,382.00
113	50	FOOT	CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT, 24 IN.	\$ 379.75	18,987.50
114	80	FOOT	CLASS 52 DIWM WITH POLYETHYLENE ENCASEMENT, 30 IN.	\$ 1,218.55	97,484.00
115	2	EACH	16 IN. X16 IN. TAPPING SLEEVE AND 16 IN. DIA. VALVE IN 72 IN. DIA. VALVE VAULT, TYPE I FRAME, CLOSED LID	\$ 22,441.15	44,882.30
116	2	EACH	24 IN. X24 IN. TAPPING SLEEVE AND 24 IN. DIA. VALVE IN 96 IN. DIA. VALVE VAULT, TYPE I FRAME, CLOSED LID	\$ 38,417.55	76,835.10
117	2	EACH	30 IN. X30 IN. TAPPING SLEEVE AND 30 IN. DIA. VALVE IN 144 IN. DIA. VALVE VAULT, TYPE I FRAME, CLOSED LID	\$ 74,713.25	149,426.50
118	1	EACH	16 IN. DIA. VALVE IN 72 IN. DIA. VALVE VAULT, TYPE I FRAME, CLOSED LID	\$ 11,423.30	11,423.30
119	1	EACH	2" WATER SERVICE LONG (AUGERED)	\$ 7,108.95	7,108.95
120	42	FOOT	30" DIAMETER STEEL SLEEVE, 0.719" WALL THICKNESS, OPEN CUT	\$ 256.75	10,783.50
121	40	FOOT	48" DIAMETER STEEL SLEEVE, 1.00" WALL THICKNESS, OPEN CUT	\$ 554.35	22,174.00
122	2	EACH	WATER MAIN LINE STOP 16 IN.	\$ 23,162.65	46,325.30
123	2	EACH	WATER MAIN LINE STOP 24 IN.	\$ 34,036.20	68,072.40
124	2	EACH	WATER MAIN LINE STOP 30 IN.	\$ 57,947.10	115,894.20
125	2	EACH	CUT AND CAP EXISTING 16" WATER MAIN	\$ 3,164.00	6,328.00
126	2	EACH	CUT AND CAP EXISTING 24 IN. WATER MAIN	\$ 4,826.35	9,652.70
127	2	EACH	CUT AND CAP EXISTING 30 IN. WATER MAIN	\$ 7,684.65	15,369.30
128	2	EACH	ABANDON VALVE VAULT	\$ 2,131.80	4,263.60
129	600	FOOT	REMOVE EXISTING WATER MAIN, 16 IN.	\$ 67.20	40,320.00
130	50	FOOT	REMOVE EXISTING WATER MAIN, 24 IN.	\$ 82.65	4,132.50
131	65	FOOT	REMOVE EXISTING WATER MAIN, 30 IN.	\$ 107.65	6,997.25
132	810	FOOT	TRENCH BACKFILL, WATER MAIN, SPECIAL	\$ 17.55	14,215.50
133	31	SQ YD	STONE RIPRAP, CLASS A1	\$ 100.00	3,100.00
134	31	SQ YD	STONE RIPRAP, CLASS A5	\$ 100.00	3,100.00
135	31	SQ YD	FILTER FABRIC	\$ 25.00	775.00
136	17215	SQ YD	EROSION CONTROL BLANKET	\$ 3.00	51,645.00

SCHEDULE OF PRICES

ITEM NO.	QUANTITIES	UNIT	PAY ITEM	UNIT COST	TOTAL COST
137	200	FOOT	TEMPORARY DITCH CHECKS	\$ 9.00	\$ 1,800.00
138	13615	FOOT	PERIMETER EROSION BARRIER	\$ 3.00	40,845.00
139	7	EACH	INLET AND PIPE PROTECTION	\$ 250.00	1,750.00
140	138	EACH	INLET FILTERS	\$ 150.00	20,700.00
141	1	EACH	REMOVAL OF EXISTING STRUCTURES NO. 1	\$ 111,630.00	111,630.00
142	3	EACH	CONCRETE HEADWALL REMOVAL	\$ 1,747.30	5,241.90
143	27710	POUND	REINFORCEMENT BARS, EPOXY COATED	\$ 2.00	55,420.00
144	163	EACH	BAR SPLICERS	\$ 15.00	2,445.00
145	45	FOOT	PIPE HANDRAIL	\$ 130.00	5,850.00
146	1	EACH	NAME PLATES	\$ 1,000.00	1,000.00
147	121.4	CU YD	CONCRETE BOX CULVERTS	\$ 1,250.00	151,750.00
148	384	FOOT	PRECAST CONCRETE BOX CULVERTS 5' X 3'	\$ 374.60	143,846.40
149	835	SQ FT	TEMPORARY SOIL RETENTION SYSTEM	\$ 25.00	20,875.00
150	1	EACH	REINFORCED CONCRETE END SECTION, 36" SPECIAL	\$ 250.00	250.00
151	2	EACH	INLINE CHECK VALVES, 36"	\$ 2,620.30	5,240.60
152	17215	SQ YD	TOPSOIL, FURNISH AND PLACE, 4"	\$ 6.00	103,290.00
153	4	ACRE	SEEDING, CLASS 2A	\$ 5,000.00	20,000.00
154	1.25	ACRE	SEEDING, CLASS 4	\$ 5,000.00	6,250.00
155	0.5	ACRE	SEEDING, CLASS 7 (MODIFIED)	\$ 5,000.00	2,500.00
156	321	POUND	NITROGEN FERTILIZER NUTRIENT	\$ 3.00	963.00
157	321	POUND	PHOSPHORUS FERTILIZER NUTRIENT	\$ 3.00	963.00
158	321	POUND	POTASSIUM FERTILIZER NUTRIENT	\$ 3.00	963.00
159	0.5	ACRE	MULCH, METHOD 2	\$ 10,000.00	5,000.00
160	1565	SQ YD	SODDING, SALT TOLERANT	\$ 10.00	15,650.00
161	263	SQ FT	SIGN PANEL, TYPE 1	\$ 22.00	5,786.00
162	48	EACH	REMOVE SIGN PANEL ASSEMBLY - TYPE A	\$ 40.00	1,920.00
163	766	FOOT	TELESCOPING STEEL SIGN SUPPORT	\$ 12.00	9,192.00
164	885	SQ FT	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	\$ 6.00	5,310.00
165	35150	FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	\$ 0.63	22,144.50
166	1149	FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	\$ 1.15	1,321.35
167	1285	FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	\$ 1.50	1,927.50
168	988	FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	\$ 2.30	2,272.40
169	231	FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	\$ 6.00	1,386.00
170	332	EACH	RAISED REFLECTIVE PAVEMENT MARKER	\$ 33.50	11,122.00

CONTINUED ON NEXT PAGE

SCHEDULE OF PRICES

ITEM NO.	QUAN-TITIES	UNIT	PAY ITEM	UNIT COST	TOTAL COST
171	1000	SQ FT	ERADICATION OF EXISTING PAVEMENT MARKING	\$ 5.00	\$ 5,000.00
172	1429	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	\$ 8.30	11,860.70
173	95	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	\$ 14.80	1,406.00
174	127	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	\$ 32.50	4,127.50
175	15	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	\$ 34.90	523.50
176	493	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	\$ 35.50	17,501.50
177	11	EACH	HANDHOLE	\$ 1,148.20	12,630.20
178	3	EACH	HEAVY-DUTY HANDHOLE	\$ 1,269.70	3,809.10
179	2	EACH	DOUBLE HANDHOLE	\$ 2,919.30	5,838.60
180	2	EACH	SERVICE INSTALLATION - POLE MOUNTED	\$ 1,090.70	2,181.40
181	1513	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	\$ 0.70	1,059.10
182	3269	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	\$ 0.90	2,942.10
183	2300	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	\$ 1.10	2,530.00
184	2527	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	\$ 0.70	1,768.90
185	390	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	\$ 1.50	585.00
186	1326	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6, 1C	\$ 1.00	1,326.00
187	280	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20, 3/C, TWISTED, SHIELDED	\$ 0.70	196.00
188	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	\$ 725.90	2,177.70
189	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	\$ 748.40	2,245.20
190	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	\$ 6,494.00	6,494.00
191	3	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	\$ 6,141.10	18,423.30
192	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	\$ 6,265.50	6,265.50
193	24	FOOT	CONCRETE FOUNDATION, TYPE A	\$ 187.50	4,500.00
194	8	FOOT	CONCRETE FOUNDATION, TYPE C	\$ 527.10	4,216.80
195	68	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	\$ 141.60	9,628.80
196	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	\$ 617.10	4,936.80
197	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	\$ 594.30	1,782.90
198	5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	\$ 923.80	4,619.00
199	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	\$ 1,181.40	1,181.40
200	4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	\$ 1,424.10	5,696.40
201	14	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	\$ 86.20	1,206.80
202	12	EACH	INDUCTIVE LOOP DETECTOR	\$ 139.80	1,677.60
203	318	FOOT	DETECTOR LOOP, TYPE I	\$ 13.60	4,324.80
204	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	\$ 198.70	198.70

CRIG

County of Cook
Department of Transportation and Highways

Proposal Bid Bond

Project Center Street Reconstruction
Section 02-W5208-02-RP
Date May 13, 2015
Letting 1581-14546

We Capitol Cement Company, Inc.
as Principal, and Travelers Casualty and Surety Company of America

as Surety, are held and firmly bound unto the County of Cook a body politic and corporate of the state of Illinois herein after called the County in the penal sum of 5% of the total bid price, or for the amount specified in Article 102.09 of the "Standard Specifications for Road and Bridge Construction" in effect on the date of invitation for bids. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly to pay to the County this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the County acting through its awarding agency for the construction of the work designated as the above section.

THEREFORE, if the proposal is accepted and a contract awarded to the PRINCIPAL by the County for the above-designated section, and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish the required insurance coverage, all as provided in the Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the County determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the County acting through its awarding agency shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and said SURETY have caused this instrument to be signed by their respective officers and their corporate seals to be hereunto affixed this 13th day of May A.D. 2015.

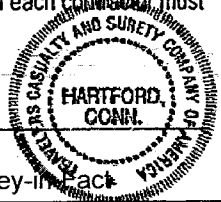
PRINCIPAL

Capitol Cement Company, Inc. _____
(Company Name) (Seal) (Company Name) (Seal)
BY: [Signature] President BY: _____
(Signature & Title) (Signature & Title)

(If PRINCIPAL is a joint venture of two or more contractors, the company names, seals and authorized signatures of each contractor must be affixed.)

SURETY

Travelers Casualty and Surety Company of America _____
(Name of Surety) (Seal) BY: [Signature]
(Signature of Attorney-in-fact)
Ila Delman Attorney-in-fact



County of Illinois
County of Cook
I, Kimberly Bragg, a Notary Public in and for Cook County, do hereby certify that _____
Ila Delman

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)
I am each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this _____
person and acknowledged respectively, that they signed, sealed, and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.
Given under my hand and notarial seal this 13th day of May A.D., 2015. My commission expires August 31, 2017

[Signature]
Notary Public Kimberly Bragg

Proper execution of this form (i.e. Missing Signatures or Seals or incomplete certification) will result in bid being declared irregular.
If Bid Bond is used in lieu of proposal guaranty check, it must be on this form and must be submitted with Bid.

State of Illinois

County of Cook

SURETY ACKNOWLEDGEMENT (ATTORNEY-IN-FACT)

I, Kimberly Bragg Notary Public of Cook County, in the State of Illinois,

do hereby certify that Ila Delman Attorney-in-Fact, of the Travelers Casualty and

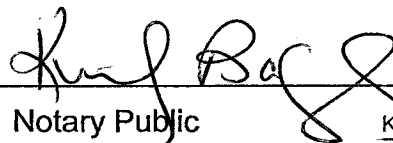
Surety Company of America who is personally known to me to be the same person whose

name is subscribed to the foregoing instrument, appeared before me this day in person, and

acknowledged that she signed, sealed and delivered said instrument, for and on behalf of the

Travelers Casualty and Surety Company of America for the uses and purposes therein set forth.

Given under my hand and notarial seal at my office in the City of Chicago in
said County, this 13th day of May, 2015.



Notary Public

Kimberly Bragg

My Commission expires: August 31, 2017





POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Surety Bond No. Bid Bond

Principal: Capitol Cement Company, Inc.

OR

Project Description: Center Street 171st Street to 159th Street

Obligee: Cook County

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc. is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Ila Delman of the City of Chicago, State of IL, their true and lawful Attorney-in-Fact, to sign, execute, seal and acknowledge the surety bond(s) referenced above.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 10th day of September, 2012.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut

City of Hartford ss.

By:

[Signature]
Robert L. Raney, Senior Vice President

On this the 10th day of September, 2012, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

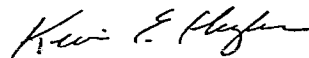
FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 13th day of May, 2015



Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

BID DEPOSIT FORM

**AS REQUIRED BY INSTRUCTION TO BIDDER OF/AND INCONJUNCTION
WITH THE BID HEREWITH SUBMITTED**

(THIS FORM MUST BE SUBMITTED WITH THE BID)

TO: COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS

BID FOR: Center Street - 171st to 159th St.
Section 02-W5208-02-RP

BID OPENING DATE: May 13, 2015

We deposit (subject to all condition of said proposal) the following described deposit check:

() Cashier's Check () Bank Draft (X) Bid Bond () Other

Drawn on: NA of NA
Bank City State

Draft or Check Number: NA Date: _____

Amount: \$ NA

Submitted by: Capital Cement Co, Inc.
Bidder
6231 N Pulaski Road
Street Address
CHICAGO ILL 60648
City State Zip Code

DO NOT WRITE IN THE SPACES BELOW

The above described Deposit Check is:

() Held _____ Date _____
() Mailed _____ Date _____
() Delivered To _____ Date _____
() Bond Substituted _____ Date _____
() Bond Mailed To _____ Date _____

EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE CERTIFICATE

As used in this certificate the term "Subcontract" includes the term "purchase order" and all other agreements effectuating purchase of supplies or services. If this certificate is submitted as part of a bid or proposal the term "Seller" shall be deemed to refer to the Bidder or Offeror, or Subcontractor or Supplier. This certificate shall be renewed annually. Notwithstanding the foregoing, the certifications made herein shall remain applicable until completion of all nonexempt Contracts/Subcontracts awarded while this certificate is in effect. The undersigned Seller certifies the following to the COOK COUNTY hereinafter referred to as Buyer:

A. REPORTS: Within thirty (30) days after Buyer's award to Seller of any Contract/Subcontract and prior to each March 31 thereafter during the performance of work under said Subcontract, the Seller shall file Standard Form 100, entitled "Equal Employment Opportunity Employer Information Report EEO-1" in accordance with instructions contained therein unless Seller has either filed such report within twelve (12) months preceding the date of the award or is not otherwise required by law or regulation to file such a report.

B. PRIOR REPORTS: Seller, if it has participated in previous Contract or Subcontract subject to the Equal Opportunity Clause (41 C.F.R.) Sec. 60-1-4 (a) (1) through (7), or the clause originally contained in Section 301 of Executive Order No. 10925, or the clause contained in Section 201 of the Executive Order No. 11114, has filed all required compliance reports. Seller shall obtain similar representations indicating submission of all required compliance reports, signed by proposed Subcontractors, prior to awarding Subcontracts not exempt from the Equal Opportunity Clause.

C. CERTIFICATION OF NONSEGREGATED FACILITIES: Seller certifies that it does not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not permit its employees to perform their services at any location, under its control where segregated facilities are maintained. Contractor certifies further that it will not maintain or provide for its employees any segregated facilities at any of its establishments and that it will not permit its employees to perform their services at any location, under its control where segregated facilities are maintained. Seller agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this certificate. As used in this certification, the term "segregated facilities" means any waiting rooms, work area, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom or otherwise.

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C. CERTIFICATION OF NONSEGREGATED FACILITIES: (Cont'd.)

Contractor further agrees that (except where it has obtained identical certifications from proposed Subcontractors for specific time periods) it will obtain identical certifications from proposed Subcontractors prior to the award of Subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause; that it will retain such certifications in its files; and that it will forward the following notice to such proposed Subcontractors (except where the proposed Subcontractors have submitted identical certifications for specific time periods): **NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS FOR NONSEGREGATED FACILITIES.** A certification on Nonsegregated Facilities, as required by Section 60-1.8 of Title 41 of the Code of Federal Regulations, must be submitted prior to the award of a Subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity Clause. (Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001).

D. AFFIRMATIVE ACTION COMPLIANCE PROGRAM:

Prior to one hundred twenty (120) days after receipt of any Subcontract in the amount of \$50,000 or more from Buyer, if it has fifty (50) or more employees and is not otherwise exempt under 41 C.F.R. Part 60-1, shall have developed for each of his establishments a written affirmative action compliance program as called for in 41 C.F.C Sec. 60-1.40. Seller will also require its lower-tier Subcontractors who have fifty (50) or more employees and receive a Subcontract of \$50,000 or more and who are not otherwise exempt under 41 C.F.R. Part 60-1 to establish written affirmative action compliance programs in accordance with 41 C.F.R. Sec. 60-1.40.

E. Seller certifies that it is not currently in receipt of any outstanding letters of deficiencies, show cause, probable cause, or other such notification of noncompliance with EEO regulations.

Executed this 10 day of July, 2015 by:

Firm Name: CAPITOL CEMENT CO, INC

By: David Sloun

Title: Vice President
Seller

NOTE: CONTRACTOR MUST COMPLETE THIS FORM!!