

STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION

MF 1 R

PLANS FOR CONSTRUCTING WITH FEDERAL AID, THE INTERSTATE ROUTE CONNECTION 517 ARTHUR V. SHERIDAN EXPRESSWAY, CONTRACT No. 2 (Lowell Street to East Tremont Avenue) From Station 24+00 to Station 75+50, a length of 0.98 mile in the City of New York (Plus 1.39 Miles of Access Roads)

130 SHEETS

F.A. PROJECT No. E1-278-1 (45)

CONTRACT No. FIASE 60-1

BRONX COUNTY

Table with 10 columns: DATE OF CONTRACT, TYPE, MEAS. LENGTH, LENGTH IN MILES, THICKNESS IN PAVEMENT, WIDTH, SQ. FT. OF PAVEMENT, SQ. YDS. OF PAVEMENT, CU. YDS. OF PAVEMENT, SOURCE TEST NUMBER MATERIALS, CONTRACTORS.

Table with 5 columns: FED. RD. DIV. NO., STATE, FED. AID PROJ. NO., FISCAL YEAR, SHEET NO., TOTAL SHEETS.

ARTHUR V. SHERIDAN EXPRESSWAY GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST TO E. TREMONT AVE. CONTRACT NO. 2

TYPE OF CONSTRUCTION: Cement Concrete with Carbon Black 1.30 Miles, Asphalt Concrete 0.68 Mile, Grading 0.39 Mile

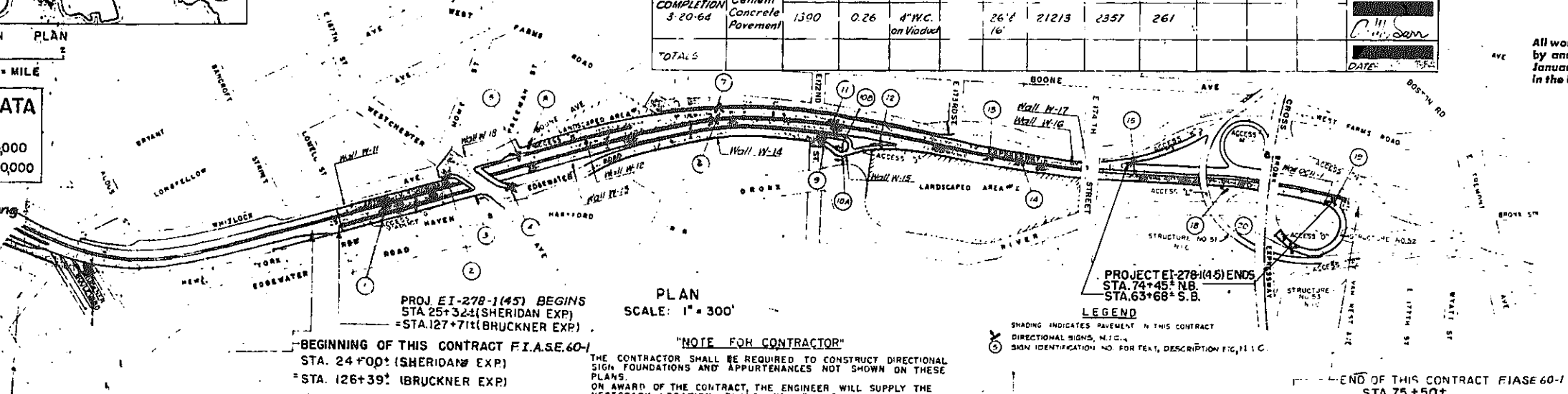
Including: H.G.S., Westchester Ave., Plate Girder, Comp. I Beam, 2 Spans, Length 131' Access G Viaduct, Comp. I Beam, 8 Spans, Length 595' Viaduct Struct. 52, Steel Beam, 9 Spans, Length 445.8' Ramps (Pd.) Two, Composite I Beam, 8 Spans, Total Length 534'

STANDARD STRUCTURE SHEETS: 46-4, 50-34, 51-21, 54-18P, 56-1, 56-43R, 58-3R2, 58-17R1, 58-60, 59-19, 59-11CR1, 59-11R1, 59-11WR1, 59-48A, 59-48B, 59-48D1, 59-48D2, 60-34, 60-41, 60-44, 60-48C, 60-48E, 60-48F, 60-48X, 60-49.

All work contemplated under this contract to be covered by and in conformity with the specifications adopted January 2, 1957, except as modified on these plans and in the Itemized Proposal.

DESIGN TRAFFIC DATA: DESIGN CLASS U-I, ESTIMATED 1975 TRAFFIC D.H. 4000, A.A.D.T. 40000

Approximate Location: On new location connecting Bruckner Blvd to Cross Bronx Expressway.



PROJ E1-278-1(45) BEGINS STA. 25+32± (SHERIDAN EXP) STA. 127+71± (BRUCKNER EXP)

BEGINNING OF THIS CONTRACT F.I.A.S.E. 60-1 STA. 24+00± (SHERIDAN EXP) STA. 126+39± (BRUCKNER EXP)

NOTE FOR CONTRACTOR: THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT DIRECTIONAL SIGN FOUNDATIONS AND APPURTENANCES NOT SHOWN ON THESE PLANS.

LEGEND: SHADING INDICATES PAVEMENT IN THIS CONTRACT, DIRECTIONAL SIGNS, N.I.C., SIGN IDENTIFICATION NO. FOR TEXT, DESCRIPTION FIC, II C.

END OF THIS CONTRACT F.I.A.S.E. 60-1 STA. 75+50±

APPROVED BY: ROBERT MOSES, CHAIRMAN TRIBOROUGH BRIDGE AND TUNNEL AUTHORITY, DATE July 27 1960

THIS CONTRACT IS COMPOSED OF A PORTION OF CONTRACT NO. 109 OF THE BROOKLYN EXP'Y. APPROVED AT THE MEETING OF THE BOARD OF ESTIMATE OF THE CITY OF NEW YORK HELD ON THE 16TH DAY OF DECEMBER 1949 (CAL. NO. 71) PURSUANT TO THE PROVISIONS OF SECTION 12B OF THE HIGHWAY LAW.

RECOMMENDED BY: A.M. SARR, DISTRICT ENGINEER, DISTRICT NO. 10, DATE 7/27/60

APPROVED BY: C.F. BLANCHARD, DEPUTY CHIEF ENGINEER, DATE Sept 9 1960

APPROVED BY: JOHN J. RAYMOND, DEPUTY CHIEF ENGINEER, DATE Sept 9 1960

E-B HUGHES, DEPUTY SUPERINTENDENT DEPARTMENT OF PUBLIC WORKS, STATE OF NEW YORK, DATE Sept 9 1960.

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS APPROVED DIVISION ENGINEER DATE

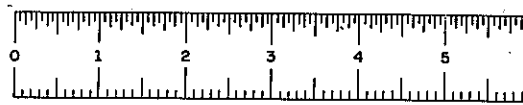
CORRECT AS BUILT

NOTES: 1. TYPES A & B COARSE AGGREGATE AND TYPES 0, D, C FINE AGGREGATE SHALL BE USED IN ALL CONCRETE MIXES. 2. IF THE USE OF TRANSIT MIX IS AUTHORIZED THE MAXIMUM SIZE OF BATCH SHALL BE 8 1/2 CY... PREPARED AND RECOMMENDED BY: Gilman Stahl 7/27/60

PROFILE OF EXPRESSWAY HOR 1" = 300' SCALE VERT. 1" = 30'

All work under this contract upon completion will be maintained by the City of New York under Article 1R Section 340B Subdivision 5.

RELOCATIONS OR CHANGES TO THE CITY OWNED UTILITIES SHOWN IN THESE PLANS DO NOT INVOLVE A MAJOR OR INDEPENDENT SEGMENT OF THE OVER-ALL CITY UTILITY SYSTEMS.



FIASE 60-1

2R

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	E1-278-406		2	29

GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST TO E. TREMONT AVE.
CONTRACT NO 2

LIST OF DRAWINGS

- 1 TITLE SHEET
- 2 LIST OF DRAWINGS
- 3 TABLES - ROAD & MISCELLANEOUS
- 4 - DRAINAGE STRUCTURES
- 5 TABLE OF QUANTITIES
- 6 TYPICAL SECTIONS & PAVING DETAILS - CITY STREETS
- 7 " " " " " " " " - EXPRESSWAY & ACCESSES
- 8
- 9 TYPICAL DRAINAGE STRUCTURES & DETAILS - CITY STREETS
- 10 " " " " " " " " - EXPRESSWAY & ACCESSES
- 13 ELECTRICAL DETAILS - TELEPHONE, TRAFFIC SIGNAL & FIRE ALARM
- 14 " " " " " " " " - TEMPORARY LIGHTING
- 15 " " " " " " " " - TYPE B LAMPPOST
- 16 " " " " " " " " - FNDN. & MISCELLANEOUS
- 17 " " " " " " " " - SERVICE BOXES & MISCELLANEOUS
- 18 " " " " " " " " - RELAY CONTROL CABINET
- 18A BARRICADE & WARNING SIGN DETAILS
- 19 ALIGNMENT & PAVING PLAN - STA. 25+0± TO STA. 34+25±
- 20 " " " " " " " " " " 34+25± " " 49+10±
- 21 " " " " " " " " " " 49+10± " " 62+50±
- 22 " " " " " " " " " " 62+50± " " 72+55±
- 23 " " " " " " " " " " 72+55± " " 75+0±
- 24 GRADING, FENCING, STONE BLOCK SURFACING - STA. 25+0± TO STA. 34+25±
- 25 " " " " " " " " " " 34+25± " " 49+10±
- 26 " " " " " " " " " " 49+10± " " 62+50±
- 27 " " " " " " " " " " 62+50± " " 72+55±
- 28 " " " " " " " " " " 72+55± " " 75+0±
- 29 DRAINAGE & UTILITIES PLAN - STA. 25+0± TO STA. 34+25±
- 30 " " " " " " " " " " 34+25± " " 49+10±
- 31 " " " " " " " " " " 49+10± " " 62+50±
- 32 RELOCATED BRONX RIVER DETAILS - E. 172nd TO E. 174th ST.
- 33 ELECTRICAL DISTRIBUTION PLAN - STA. 25+0± TO STA. 34+25±
- 34 " " " " " " " " " " 34+25± " " 49+10±
- 35 " " " " " " " " " " 49+10± " " 62+50±
- 36 " " " " " " " " " " 62+50± " " 72+55±
- 37 " " " " " " " " " " 72+55± " " 75+0±
- 38 PROFILES - EXPRESSWAY & ACCESS H
- 39 " " " " " " " " " " - ACCESSES G, K, L, M & O
- 39A " " " " " " " " " " - CITY STREETS
- 40 GENERAL PLAN & SECTIONS
- 41 ARCHITECTURAL PLAN & ELEVATION
- 42
- 43 FRAMING PLAN & STRUCTURAL DETAILS
- 44 DESIGN DATA
- 45 STRUCTURAL SECTIONS & DETAILS
- 46 " " " " " " " " " " STEEL DETAILS
- 47 UNDERPINNING - PLAN & SECTIONS
- 48 EAST ABUTMENT
- 49 WEST
- 50 CENTER PIER
- 51 ALTERATION OF EXISTING SEWER
- 52 UTILITIES - PLAN & SECTIONS
- 53 " " " " " " " " " " - DETAILS
- 54 UTILITY & DETOUR PLAN
- 55 I.R.T. CABLE INSTALLATION
- 56 DETOUR DETAILS
- 57 ELECTRICAL CONDUIT LAYOUT & UNDERPASS LIGHTING
- SEWER ALTERATIONS AT E. 172nd STREET
- 58 PLAN, PROFILE & SECTIONS
- E. 174 ST. BRIDGE
- 59 NEW RAMPS AT E. 174 ST. BRIDGE - LAYOUT
- 59A " " " " " " " " " " - ALIGNMENT & SECTIONS
- 59B " " " " " " " " " " - SUBSTRUCTURE DETAILS
- 59C " " " " " " " " " " - FRAMING PLAN & STEEL DETAILS

- 59D NEW RAMPS AT E. 174 ST. BRIDGE - STEEL DETAILS
- 59E " " " " " " " " " " - SLAB & DRAINAGE DETAILS
- 59F " " " " " " " " " " - EST. OF QUANTITIES, NOTES & RAILING DETAILS
- 61 NEW RAMPS AT E. 174 ST. BRIDGE - RAMP LIGHTING
- 62 ELECTRICAL CONDUIT LAYOUT & BRIDGE LIGHTING
- 62A DETAILS
- STRUCTURE NO. 52
- 63 PLAN & SECTIONS
- 64 ARCHITECTURAL PLANS & DETAILS
- 65 FRAMING PLAN & SECTION
- 66 NORTH ABUTMENT
- 67 PIERS 1 TO 8 INCLUSIVE
- 68 ELECTRICAL LAYOUT
- 69 TYPICAL STRUCTURAL DETAILS
- 70 MISCELLANEOUS DETAILS
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- RETAINING WALLS
- 73
- 74 PLANS, WALLS W-11, W-12 & W-13. ELEVATIONS WALLS W-11, W-12 & W-13.
- 75 UNDERPINNING AT WALL W-11. PLAN & SECTIONS.
- 76 PLAN, W-14. ELEVATION W-14
- 77 PLANS, WALLS W-15, W-16, W-17 & W-18. ELEVATION WALLS W-15, W-16, W-17 & W-18
- 78 WALL SECTIONS, A-12 TO A-32 & D-10. PARAPET & MISC. DETAILS
- 79 " " " " " " " " " " TYPES B, C, E & F. MISCELLANEOUS DETAILS & GENERAL NOTES
- 80 MISC. ARCHITECTURAL DETAILS
- 81
- 82 WALL OCH-1
- LANDSCAPED AREAS
- 83 PLAN OF AREA NO. 1
- 84 " " " " " " " " " " 2
- 85 PART PLAN OF AREA NO. 2
- 86 DRAINAGE DETAILS
- 87 WATER DETAILS
- 88 CURB & PAVEMENT DETAILS
- 88A ROADSIDE DEVELOPMENT SHEET
- 89 TOPSOILING & SEEDING PLAN - STA. 25+0± TO STA. 34+25±
- 90 " " " " " " " " " " 34+25± " " 49+10±
- 91 " " " " " " " " " " 49+10± " " 62+50±
- 92 " " " " " " " " " " 62+50± " " 72+55±
- 92A " " " " " " " " " " 72+55± " " 75+0±
- 93 ALTERATIONS TO N.Y.N.H. & H. R.R. CATENARY SUPPORT STRUCTURES
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- 97 LAYOUT
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- 100 SOUTH ABUTMENT
- 101 PIERS 1 & 2
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- A-5 NEW RAMPS @ E. 174th ST. BRIDGE - REVISIONS OF COLUMN FOUNDATIONS
- A-8 VIADUCT STRUCTURE NO. 52 - Deck Joints
- A-9 ALTERATIONS TO EXIST. BRACKETS - E. 174th ST. VIADUCT
- A-10 UNDERPINNING OF I.R.T. COLUMNS 11E, 12E, 13E & 15E
- A-11 RUBBLE MASSCHERY WALL WEST FARMS RD. STA. 7+30 TO 9+50
- A-12 ROCK SLOPES @ ROW LINE W FARMS RD - No. 01 E 172nd St.
- A-18 UNDERPASS AT WESTCHEST AVE. TEMPORARY LIGHTING SERVICE
- ASE-14 TEMPORARY UNDERPINNING AT IRT COLS. 19E, 21W, & 22W
- ASE-15 " " " " " " " " " " 11E TO 18E INCL
- ASE-16 TEMPORARY SUPPORT OF EXIST. STEEL STAIRWAY AT W. LOCK AVE.
- ASE-18 ADDITIONAL SUPPORTS, PLAIN AND STEEL, AT IRT FACILITIES
- A-B UNDERPASS AT WESTCHESTER AVE. ELIMINATION OF STRAY CURRENTS
- PHASE @ CONCRETE REMOVAL
- PHASE @ JACKING
- PHASE @ JACKING (DETAILS)
- PHASE @ CONCRETE REMOVAL
- COL. 22W

CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

LIST OF DRAWINGS

SCALE DATE SHEET NO.

1" = 10'-00" 1/10-56 2

CLARKE B. RAPUANO ENGINEER

Checked by: A.P.

Drawn by: A.P.

Designed by: F.F.E.

TABLE OF DRAINAGE STRUCTURES

Table with columns: STATION (APPROX.), OFFSET (APPROX.), DESCRIPTION. Contains drainage structure details for stations 100+00 to 100+50.

TABLE OF DRAINAGE STRUCTURES

Table with columns: STATION (APPROX.), OFFSET (APPROX.), DESCRIPTION. Contains drainage structure details for stations 100+50 to 100+90.

TABLE OF DRAINAGE STRUCTURES

Table with columns: STATION (APPROX.), OFFSET (APPROX.), DESCRIPTION. Contains drainage structure details for stations 100+90 to 100+95.

TABLE OF DRAINAGE STRUCTURES

Table with columns: STATION (APPROX.), OFFSET (APPROX.), DESCRIPTION. Contains drainage structure details for stations 100+95 to 100+99.

TABLE OF DRAINAGE STRUCTURES

Table with columns: STATION (APPROX.), OFFSET (APPROX.), DESCRIPTION. Contains drainage structure details for stations 100+99 to 100+99.

TABLE OF DRAINAGE STRUCTURES

Table with columns: STATION (APPROX.), OFFSET (APPROX.), DESCRIPTION. Contains drainage structure details for stations 100+99 to 100+99.

Checked by: J.E.E. Drawn by: J.W. Traced by: J.W. Checked by: J.W.

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY. TABLES DRAINAGE STRUCTURES. SCALE: 3"=1'-50'. DATE: 3-1-50. SHEET NO. 4. ENGINEERS: CLARKE & RAPUANO, NEW YORK, N.Y.

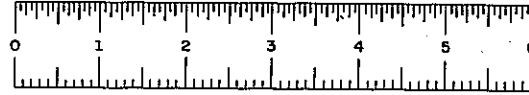
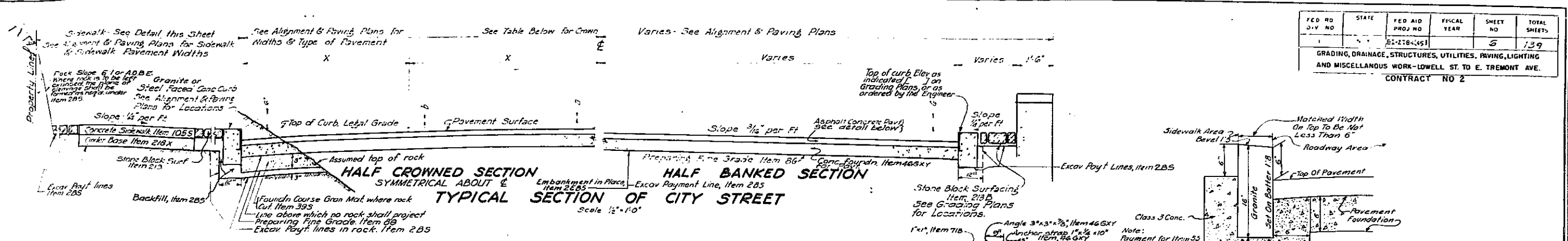


PLATE 60-1

FED RD DIV NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
		21-218-451		6	139

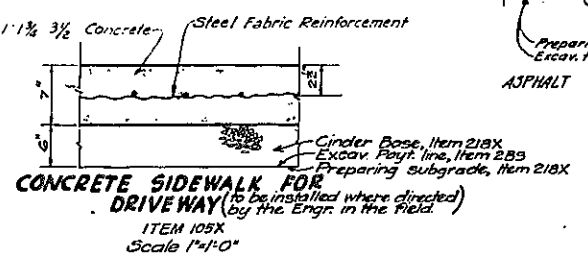
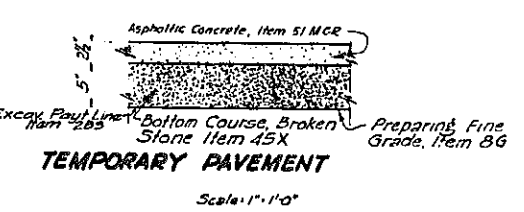
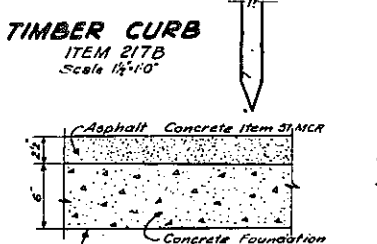
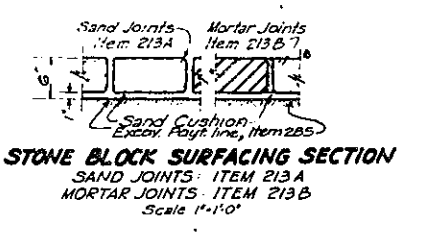
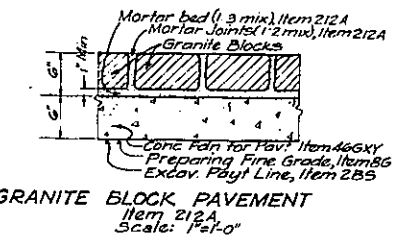
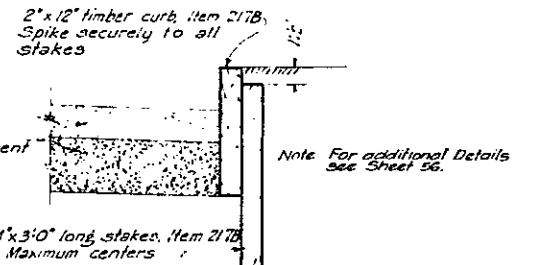
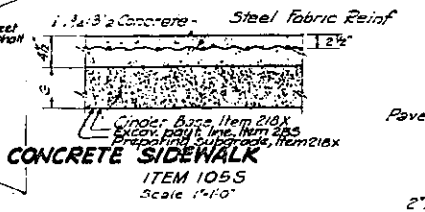
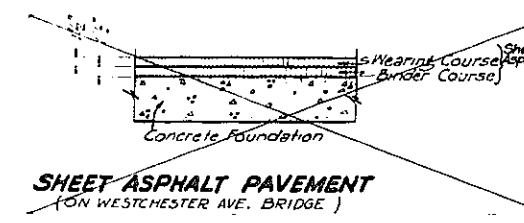
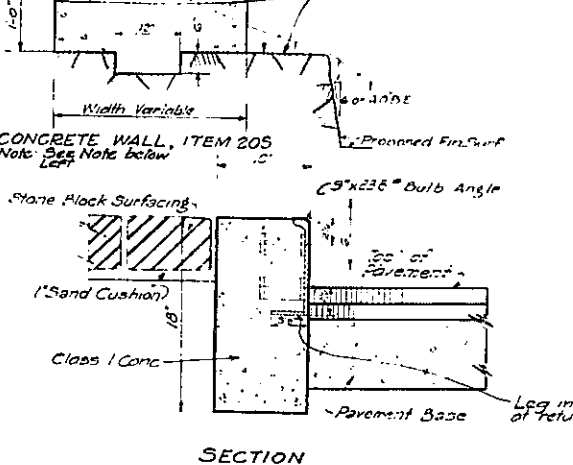
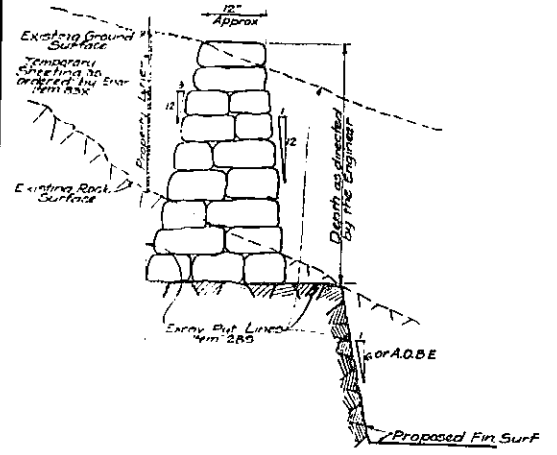
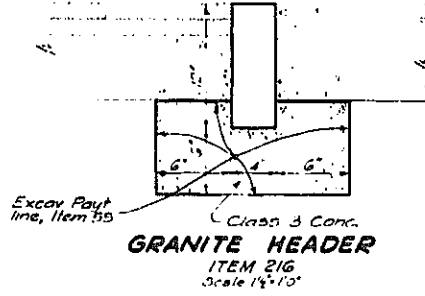
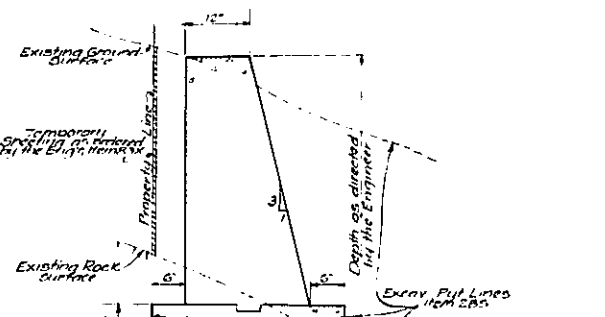
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO 2

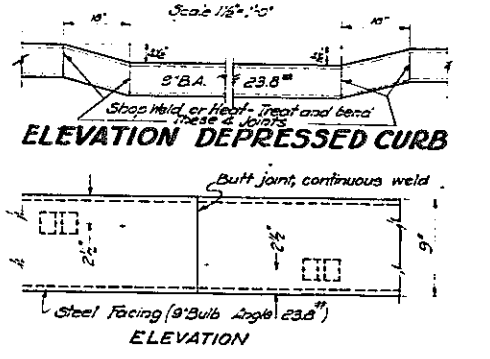
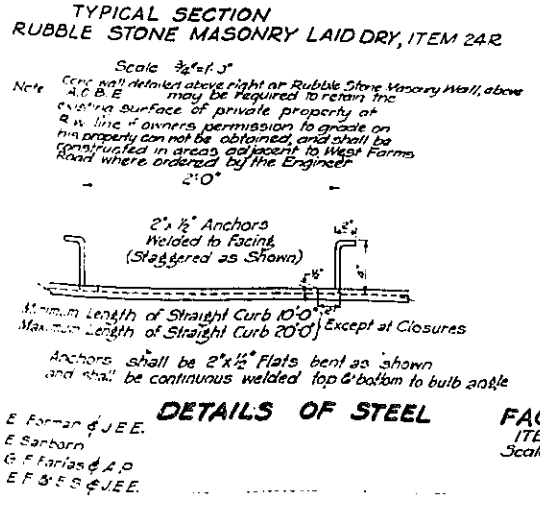


CROWN TABLE FOR CITY STREETS

TYPE OF ROAD	WIDTH OF PAVEMENT (FEET)	OFFSETS (FEET)	ORDINATES FROM CURB GRADE
		X	a, b, c, d
SHEET ASPHALT OR ASPHALT CONCRETE	20	0	-2"
	22	6'-0"	-1 1/2", -3 1/2"
	30	7'-6"	-1", -3"
	36	8'-6"	0", -2 1/2"
	40	10'-0"	+1 1/2", -2"
42	10'-6"	+1", -2 1/2"	



- NOTES**
- For details of Pedestrian Path & Landscaped Area pavement, see Sheet No. 6B.
 - For stone block surfacing patterns, see Sheet 8A.
 - For Details of Rubble Stone Masonry Wall at West Farms Road, see Dwg No. A-11.



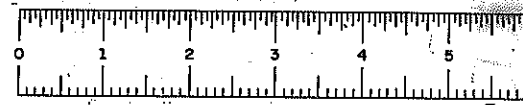
In charge of E. Forman & J.E.E.
Made by E. Sarborn
Traced by G.F. Farías & A.P.
Checked by E.F. S.S. & J.E.E.

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

TYPICAL SECTIONS & PAVING DETAILS
CITY STREETS

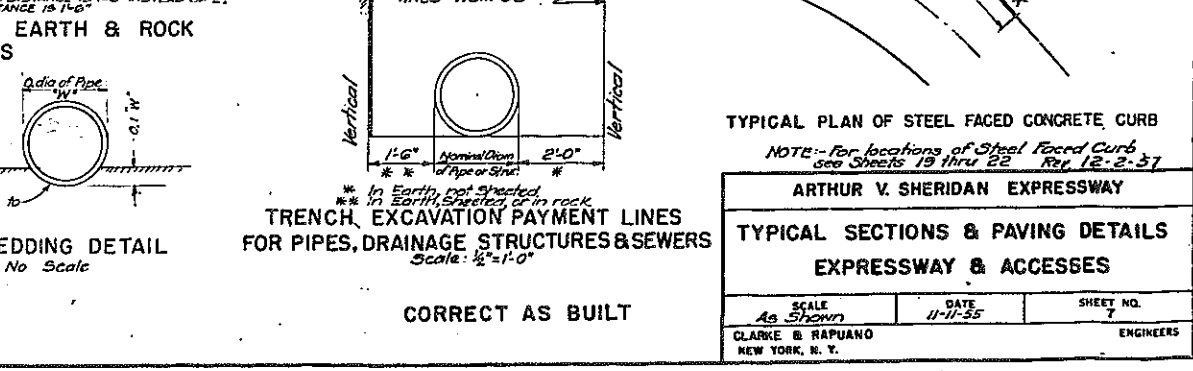
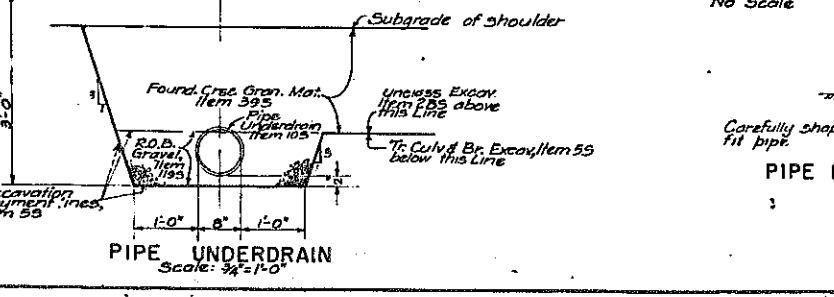
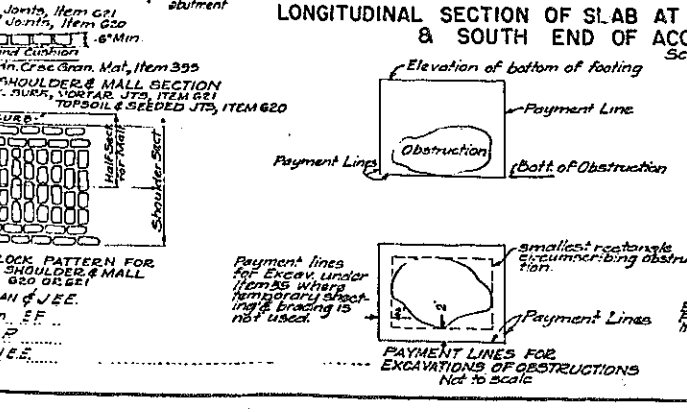
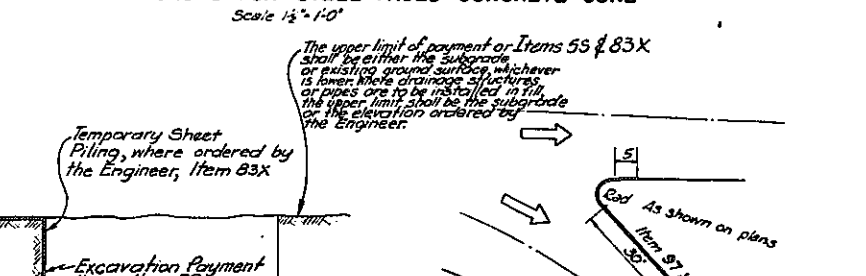
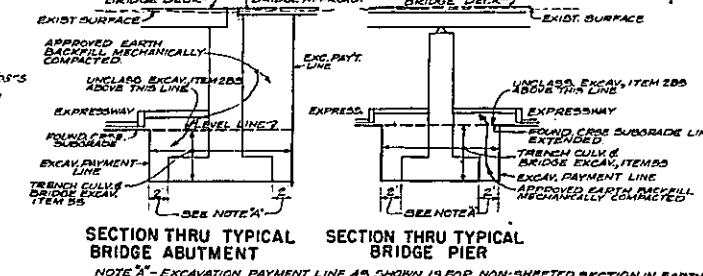
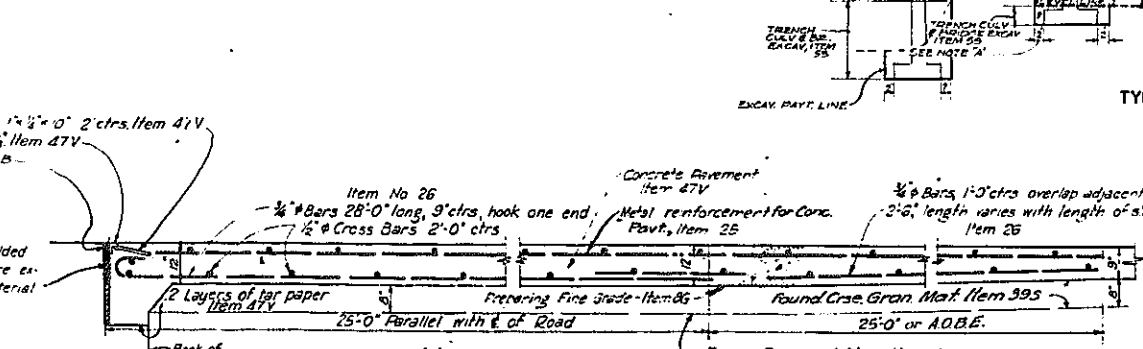
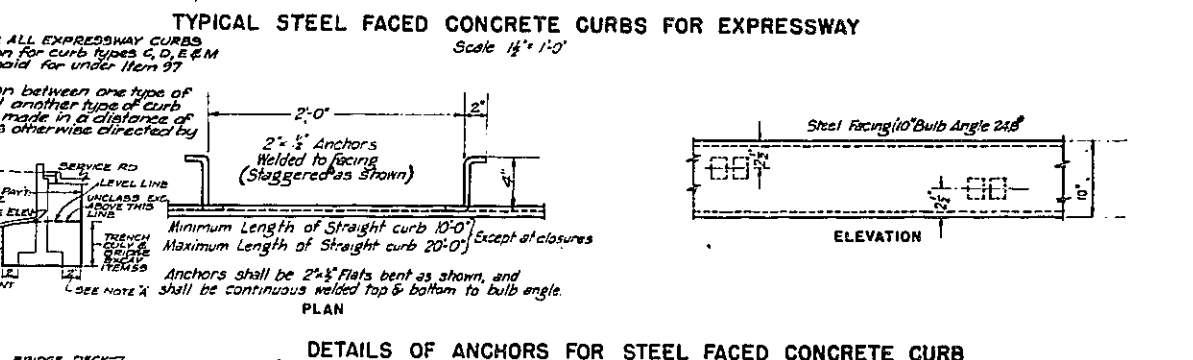
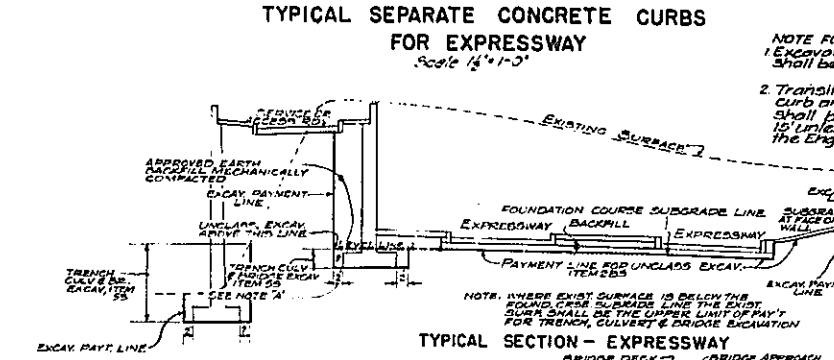
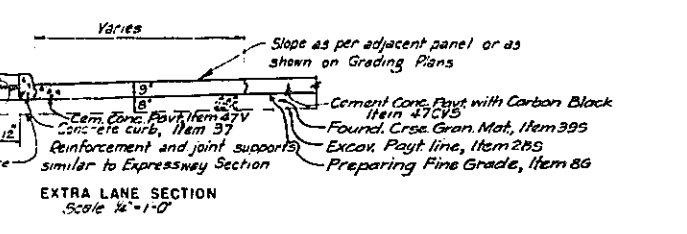
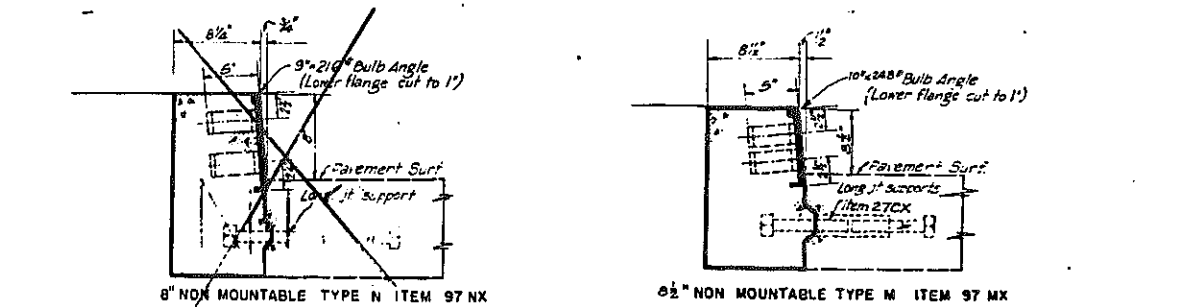
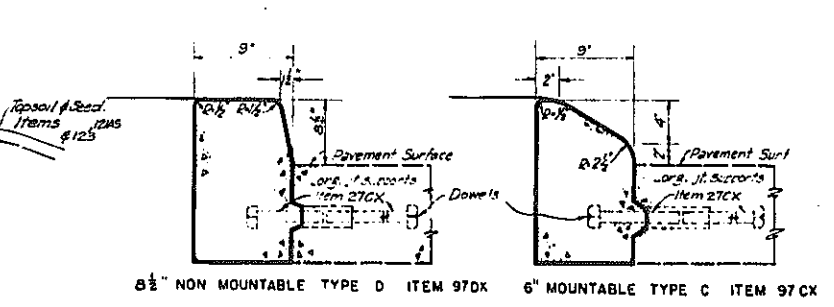
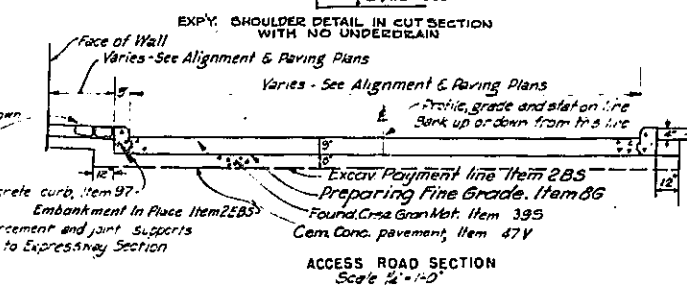
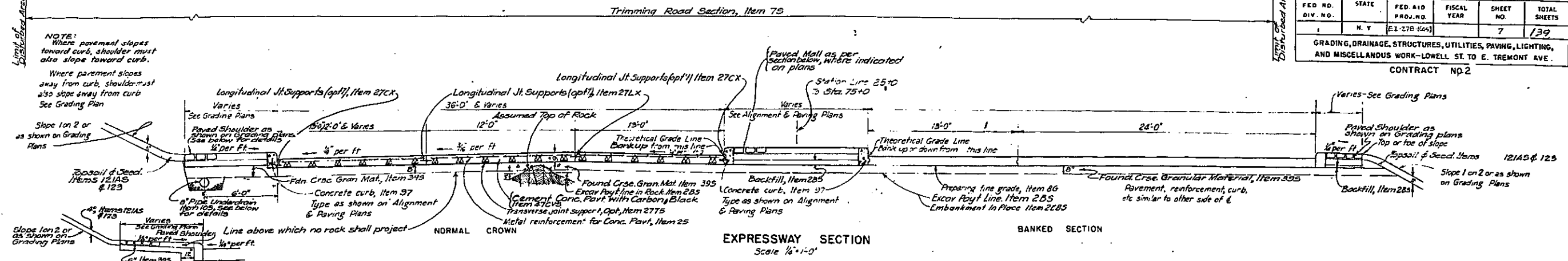
SCALE As Shown	DATE 11-11-55	SHEET NO 6
CLARKE & RAPUANO NEW YORK, N. Y.		ENGINEERS



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	[E-270-1065]		7	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO. 2



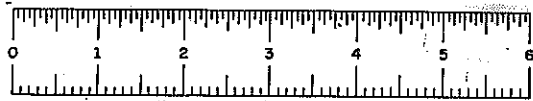
In charge of E. F. J. E.
Made by E. Sanborn, E. F. J. E.
Traced by J. K. & A. F. J. E.
Checked by E. F. J. E.

ARTHUR V. SHERIDAN EXPRESSWAY

TYPICAL SECTIONS & PAVING DETAILS EXPRESSWAY & ACCESSSES

SCALE	DATE	SHEET NO.
As Shown	11-11-55	7

CLARKE & HAPUANO
NEW YORK, N. Y. ENGINEERS

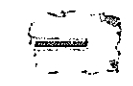


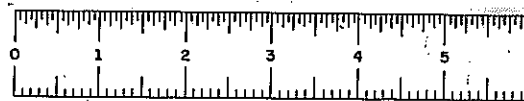
FIASE 60-1

SHEET NO 8

FIASE 60-1

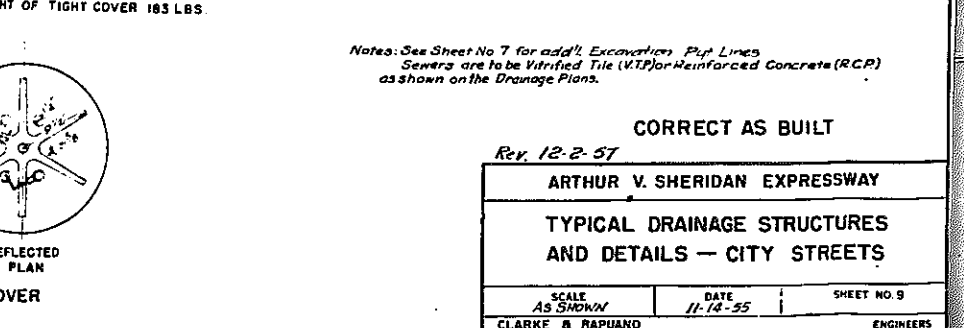
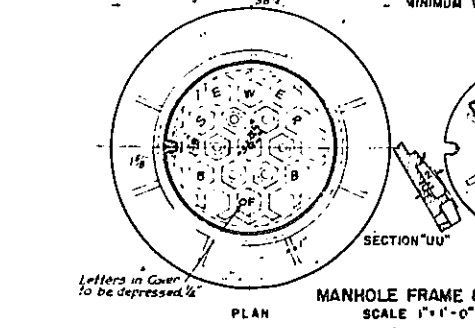
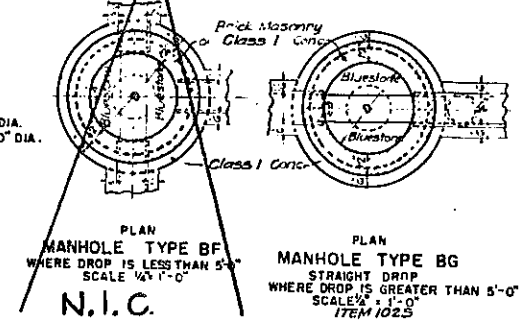
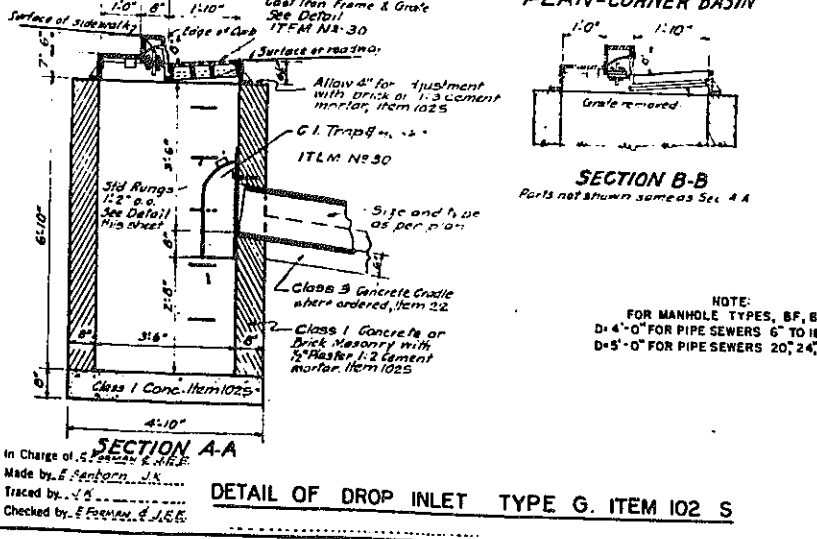
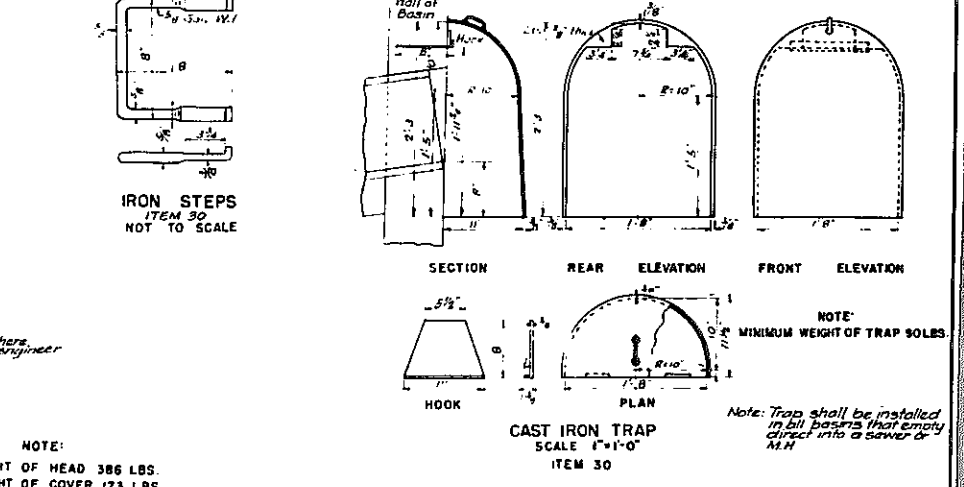
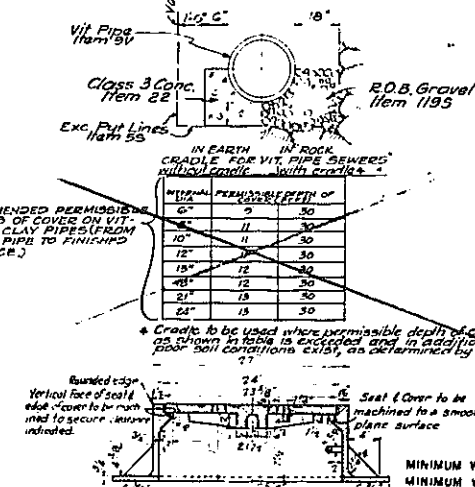
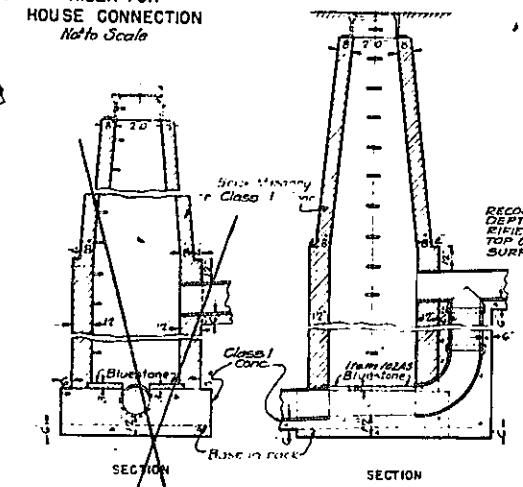
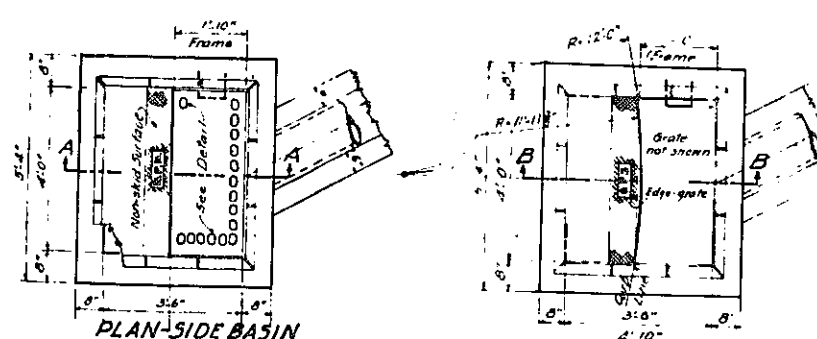
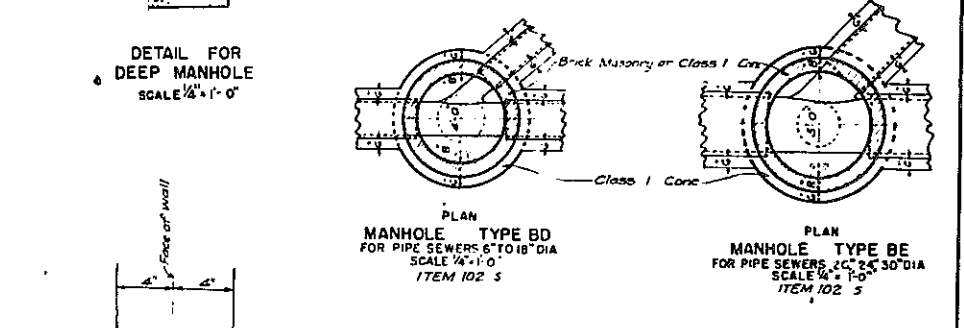
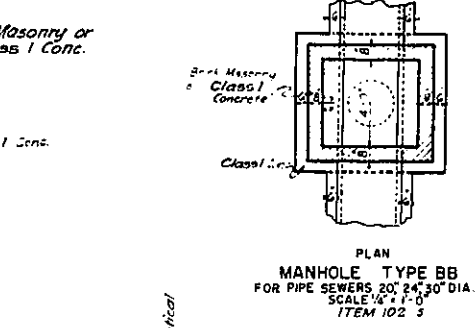
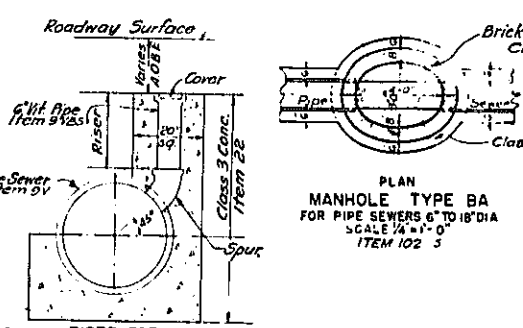
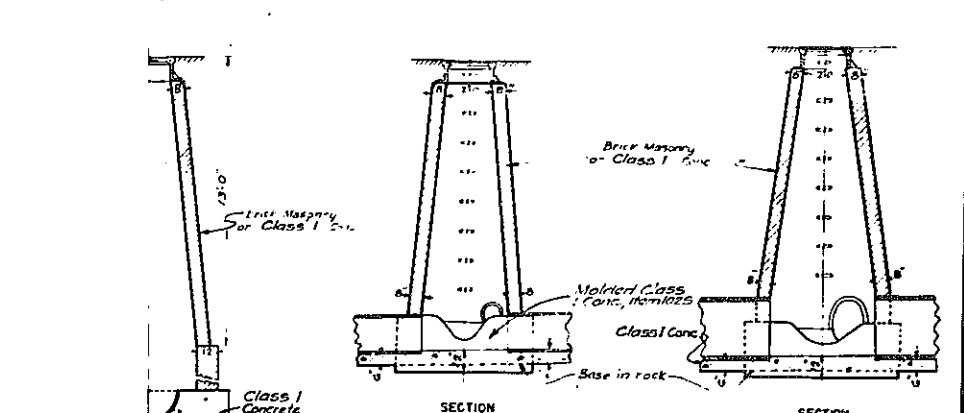
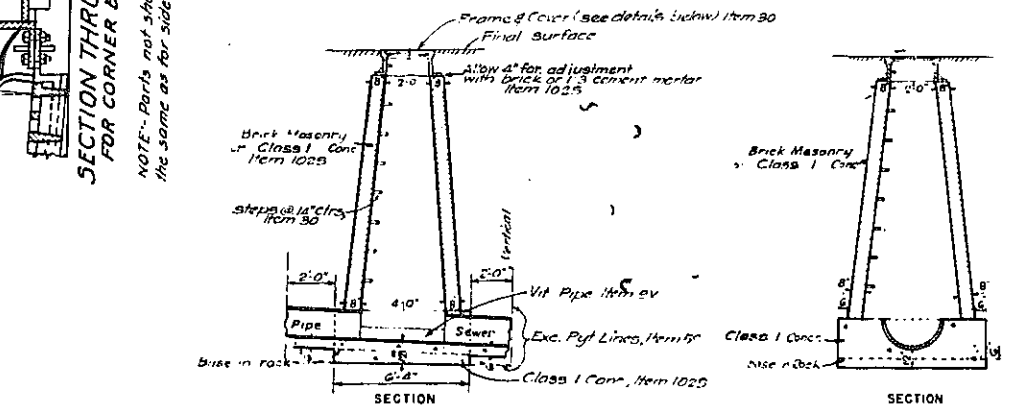
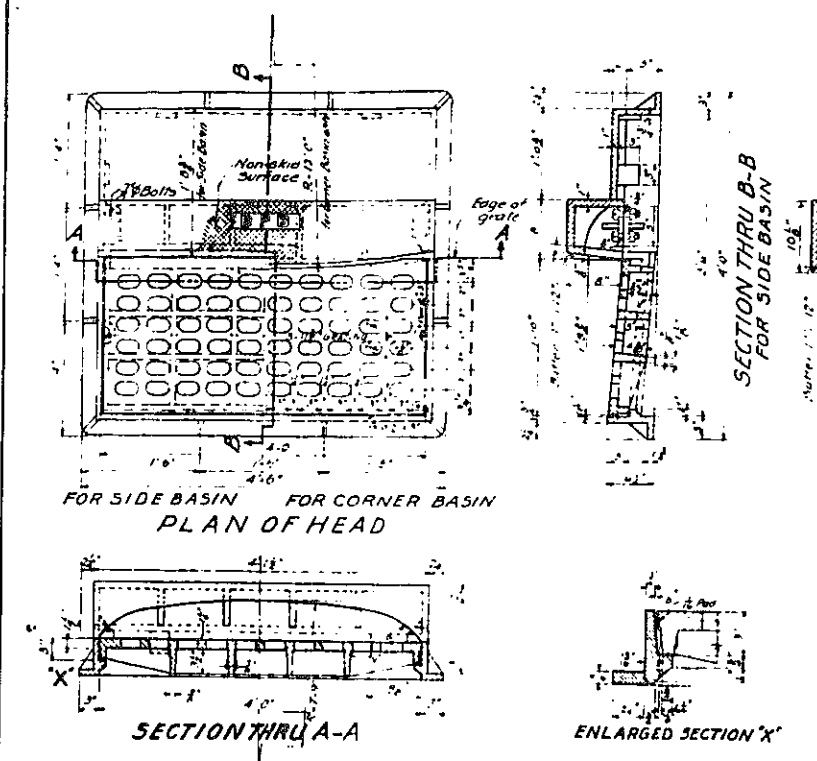
NOT IN CONTRACT





FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL-278-(45)		9	159

GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



IN CHARGE OF DESIGN: E. HENSON, J.A.
MADE BY: E. HENSON, J.A.
TRACED BY: J. S. FROST, J.A.
CHECKED BY: E. FROST, J.A.

Notes: See Sheet No 7 for add'l. Excavation Pyl Lines Sewers are to be Vitrified Tile (VT) or Reinforced Concrete (R.C.P.) as shown on the Drainage Plans.

CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

TYPICAL DRAINAGE STRUCTURES AND DETAILS - CITY STREETS

SCALE AS SHOWN	DATE 11-14-55	SHEET NO. 9
CLARKE & RAPUANO		ENGINEERS
NEW YORK, N. Y.		

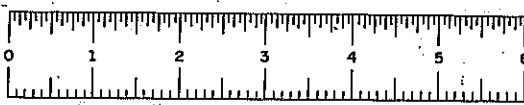
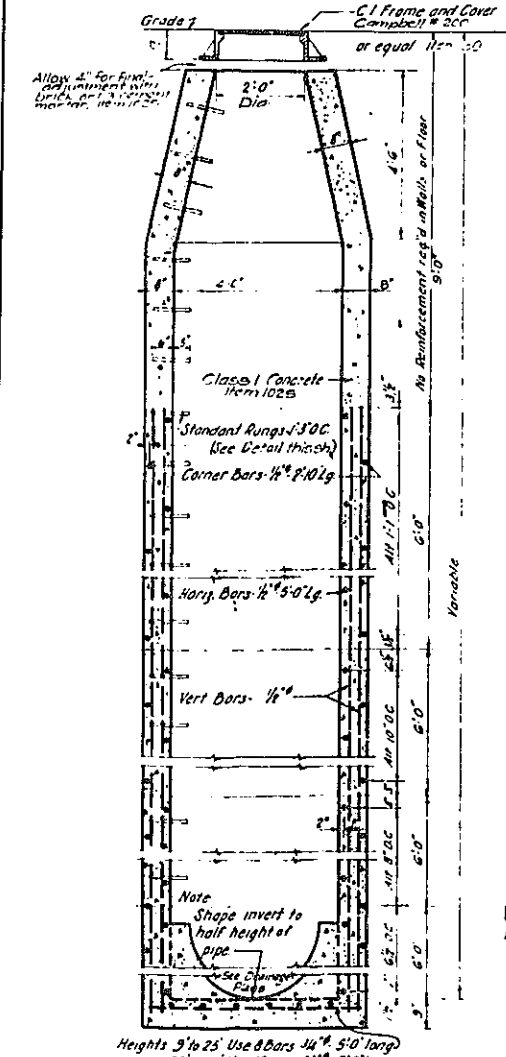
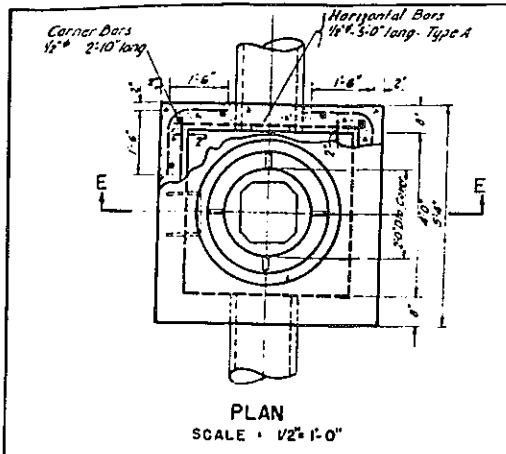


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-215-125		10	139

GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

- NOTES**
- Type C & D Drop Inlets are similar to A, size of the opening.
 - Type C curb piece has Type C frame (without curb box).
 - Type D indicates that it has Type D frame (with curb box).
 - Material in fabricated steel grate shall conform to the requirements of the Standard Specifications for Structural Steel for Bridges.
 - Steel Castings, Serial Designation A27, Grade 65-35.
 - Non-Castings, Serial Designation A28, Class 20, or Malleable Iron Castings, Serial Designation A27, Grade 325-0, at the Contractor's option.
 - All drainage pipe shall be reinforced concrete pipe (RCP) unless otherwise shown.
 - Each grate shall be set evenly on bearing of its frame so that no vertical moving or rocking occurs under traffic. Grates and frames which can not be adjusted to meet this requirement will be rejected.
 - Bar reinforcement for MH & C.B. will be paid under Item 28.

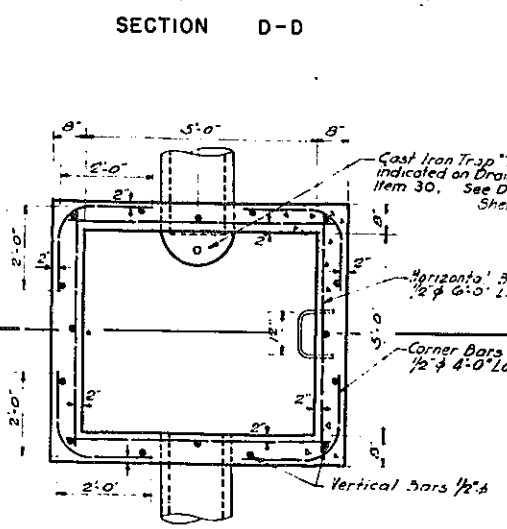
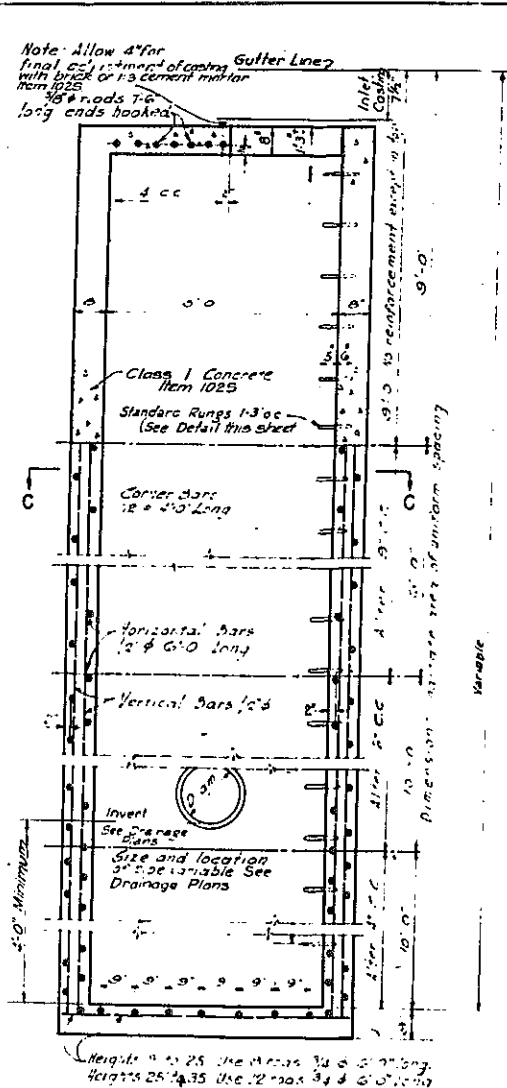


DETAIL OF MANHOLE TYPE A
Item 1025

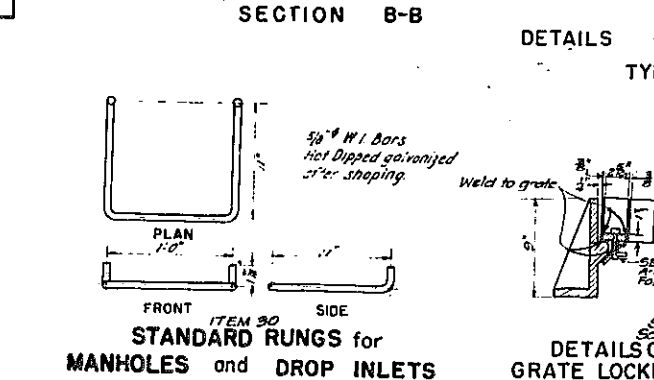
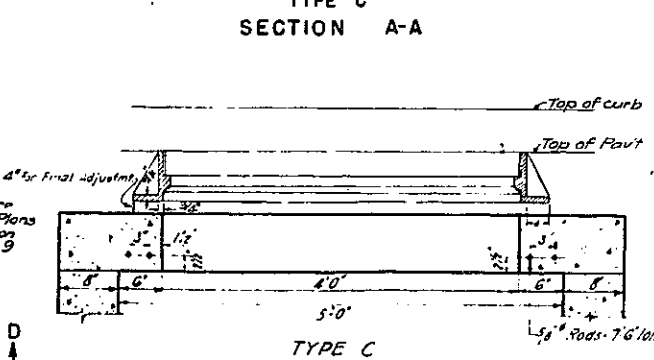
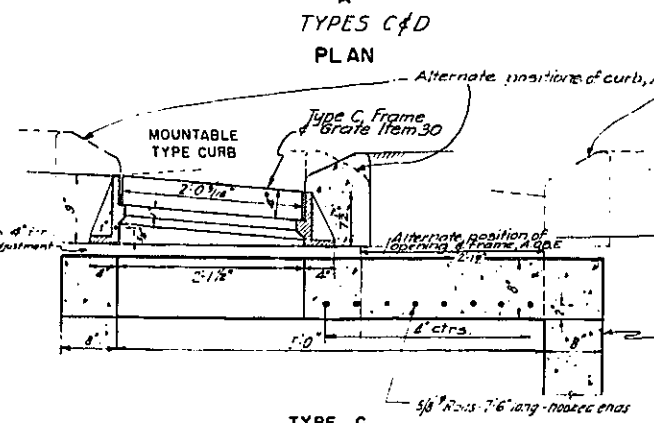
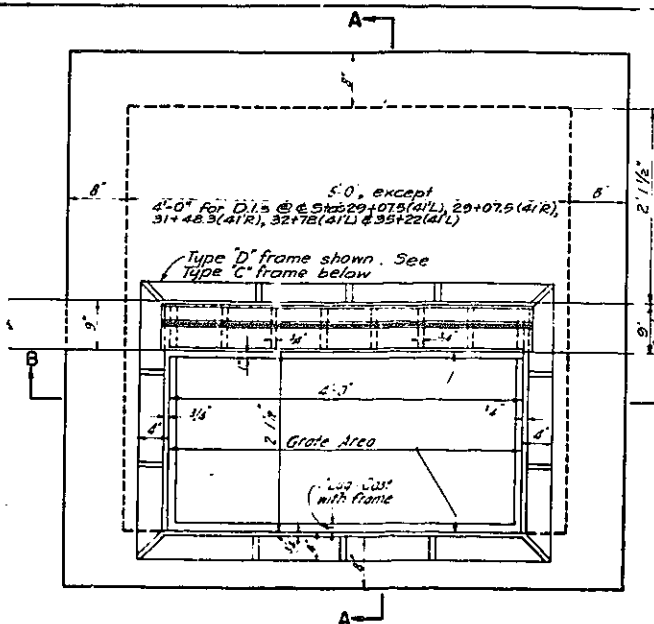
Note: Allow 4" for final adjustment of curb with brick or cement mortar. 1/2" rods 7'-6" long hooked ends.

Heights 5' to 25' Use 8 Bars 1/2" x 5'-0" long
25 to 30 Use 12" x 1/2" x 5'-0" long

In charge of E. Sheridan & J.E.E.
Made by E. Sheridan & J.E.E.
Traced by J. A.P.
Checked by E. Sheridan & J.E.E.



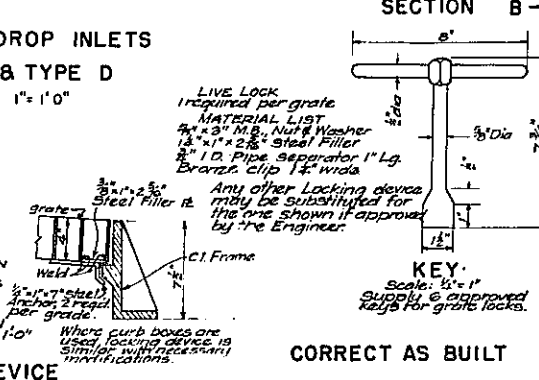
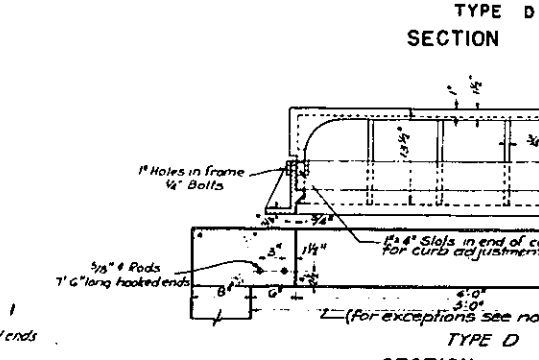
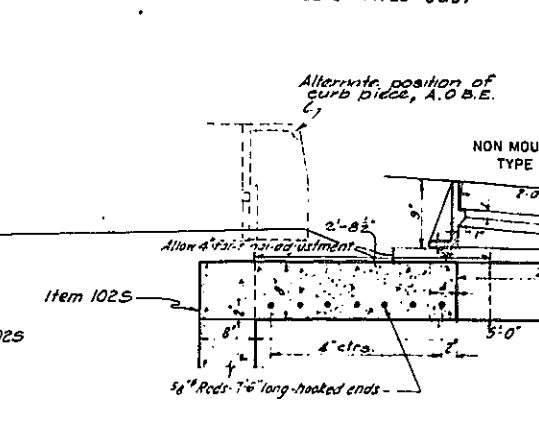
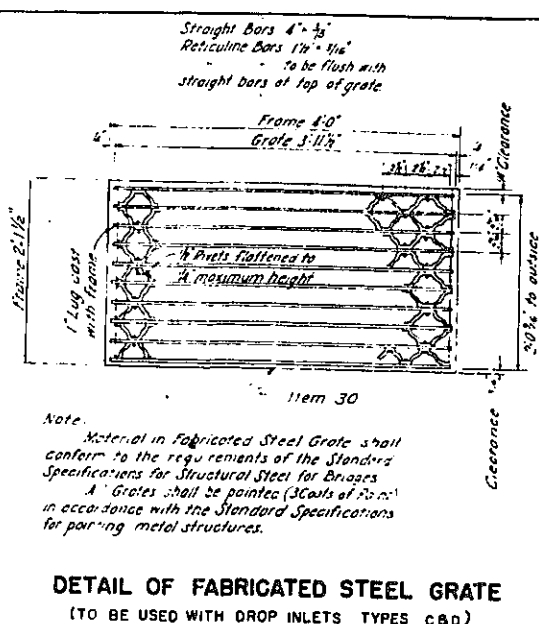
DETAIL OF DROP INLET TYPE C & TYPE D
ITEM 1025 ITEM 1025
SCALE: 1/2" = 1'-0"



STANDARD RUNGS for MANHOLES and DROP INLETS
SCALE: 1/2" = 1'-0"

DETAILS OF GRATE LOCKING DEVICE
ITEM 30

Where curb boxes are used locking device is similar with necessary modifications.



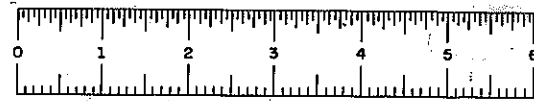
KEY
SCALE: 1/2" = 1'-0"
Supply & approved tags for grate locks.

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY

TYPICAL DRAINAGE STRUCTURES AND DETAILS - EXPRESSWAY & ACCESSES

SCALE: AS SHOWN	DATE: 11-11-55	SHEET NO.: 10
CLARKE B. RAPIANO ENGINEERS NEW YORK, N.Y.		



PHASE 60-1

SHEET NO 11-12

PHASE 60-1

NOT IN CONTRACT



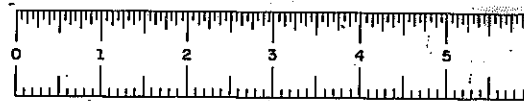
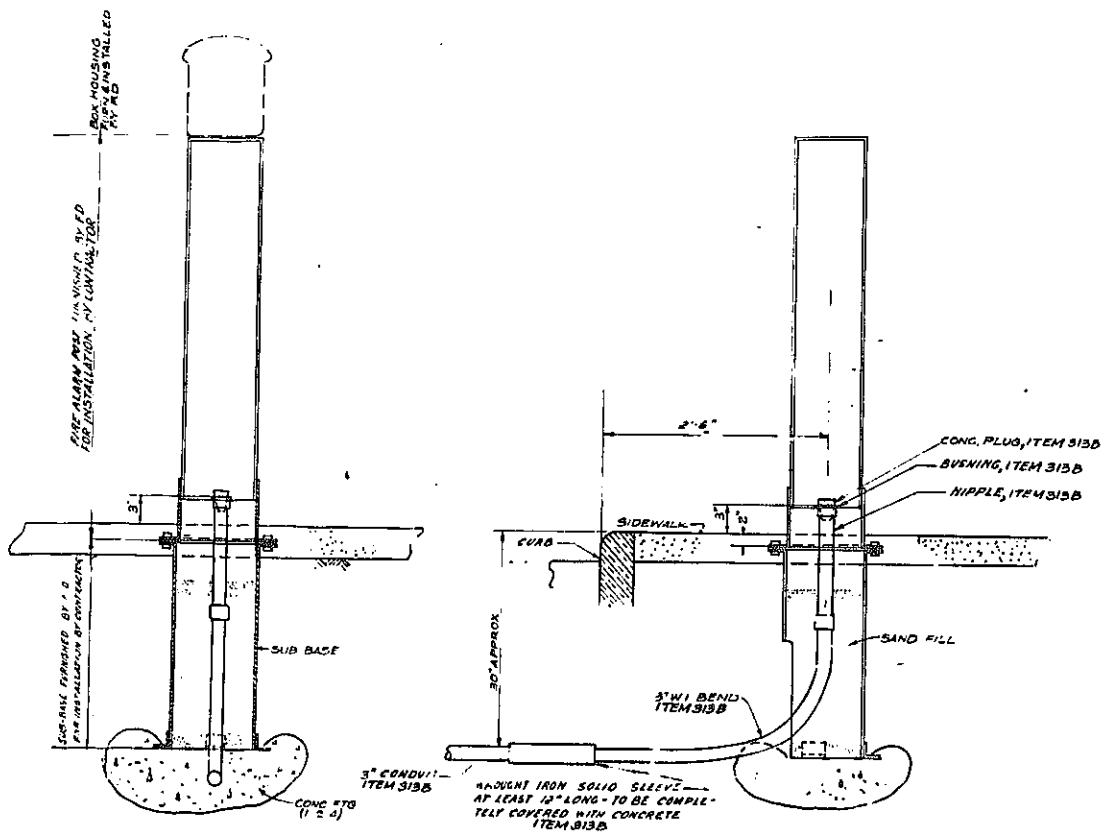


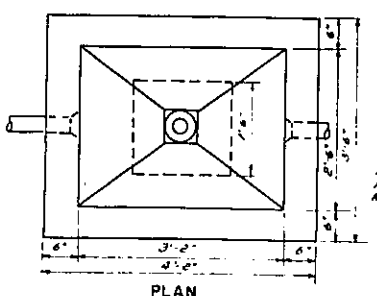
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	EL-278-1(25)		13	139

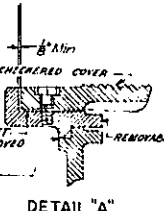
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E TREMONT AVE. CONTRACT NO 2



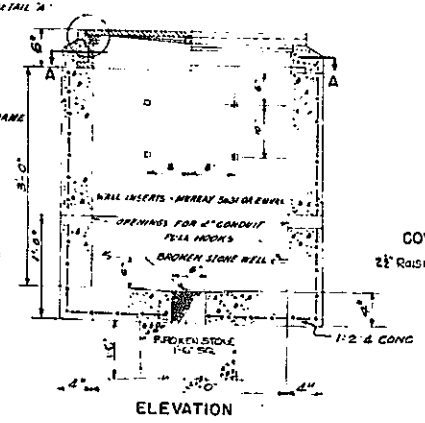
FIRE ALARM POST
ITEM # 312



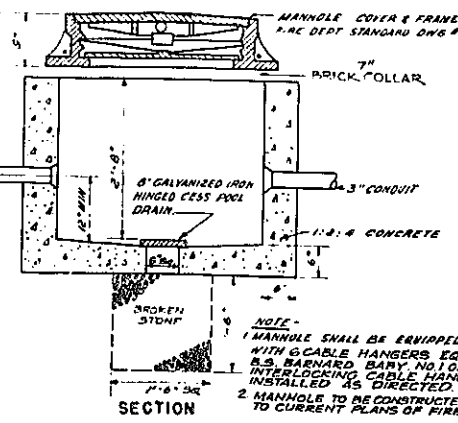
PLAN



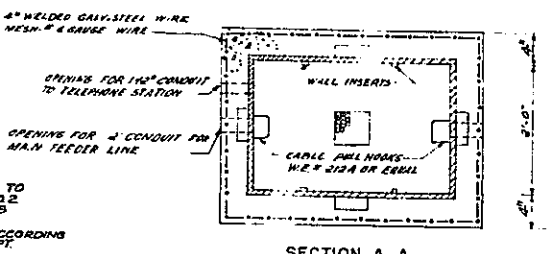
DETAIL "A"



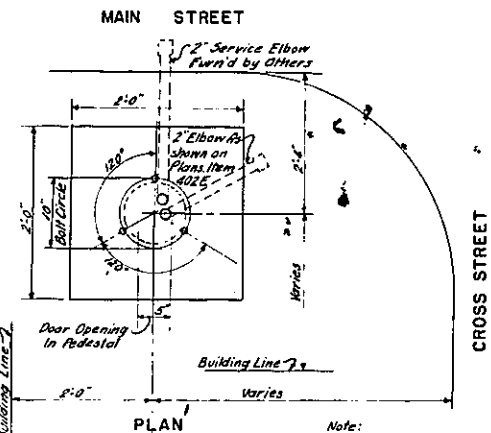
THREE PIECE WATER TIGHT FRAME & COVER O.Z. ELECTC. MFG. CO. TYPE Y-58E OR EQUAL
2'-0" Raised Letters shall be cast as integral part of cover.



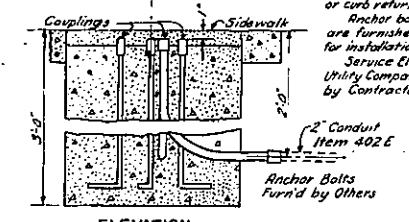
FIRE ALARM MANHOLE
SCALE: 3/4" = 1'-0" ITEM # 315



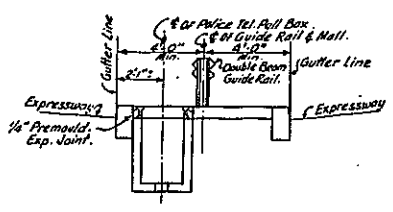
PULL BOX FOR POLICE TELEPHONE SYSTEM
SCALE: 3/4" = 1'-0" ITEM # 303A



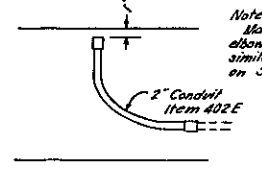
PLAN



CONCRETE FOUNDATION FOR TRAFFIC LIGHT STANDARD TYPE S-1 (ITEM 401A)
No Scale



DETAIL OF LOCATION OF POLICE TELEPHONE PULL BOX IN CENTER MALL
SCALE: 1/4" = 1'-0"



WARNING LIGHT FOUNDATION TYPE C
No Scale Recommended

Note: Where Post is installed on open, minimum distance from curb or curb return to E of post is 2'-6". Anchor bolts and couplings are furnished by Traffic Dept. for installation by Contractor. Service Elbow is furnished by Utility Company for installation by Contractor.

- NOTES**
- Traffic Signal Posts & Warning Lights will be furnished & installed by the Traffic Dept.
 - Foundations for Fire Alarm Post & Traffic Signal Post shall be in accordance with the current Plans of Fire & Traffic Depts. See Sheet 3 for Dept. Dwg. Nos.

CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY		
ELECTRICAL DETAILS		
TELEPHONE, TRAFFIC SIGNAL & FIRE ALARM		
SCALE: AS NOTED	DATE: 11-14-55	SHEET NO: 13
CLARKE B. RAPUANO		ENGINEERS
NEW YORK, N.Y.		

In Charge of: SEARS & ROFF
Made by: C.L.H.
Traced by: T.L.B.
Checked by: C.L.H. & J.C.C.

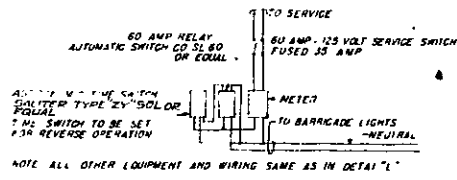
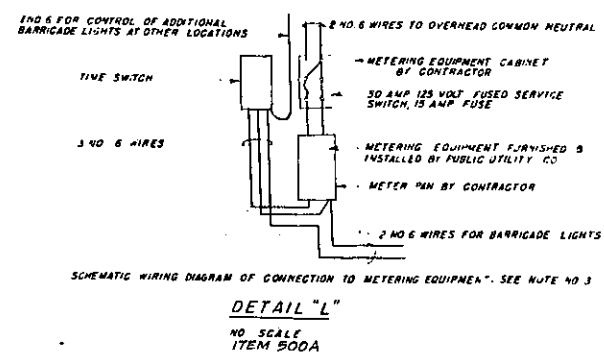
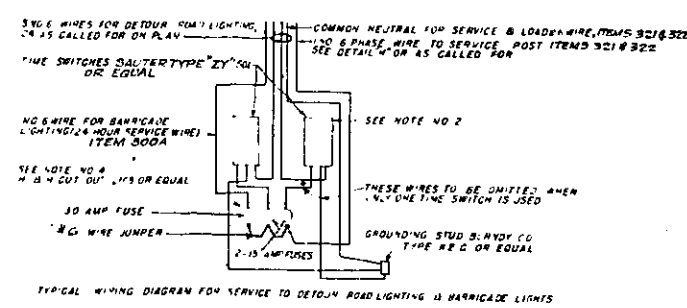
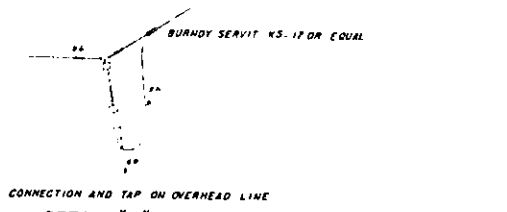
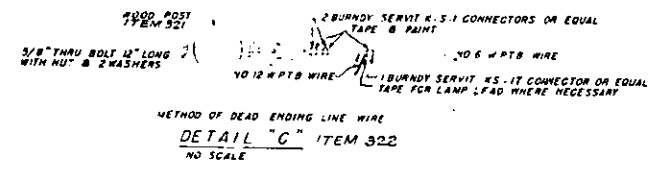
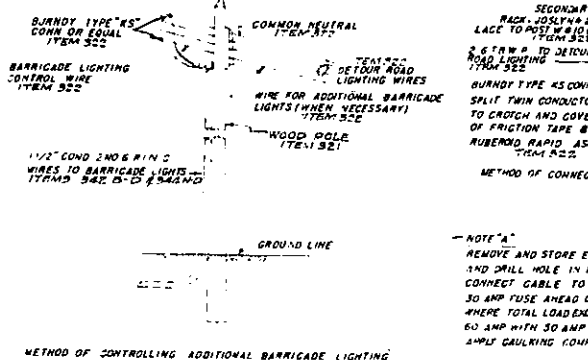
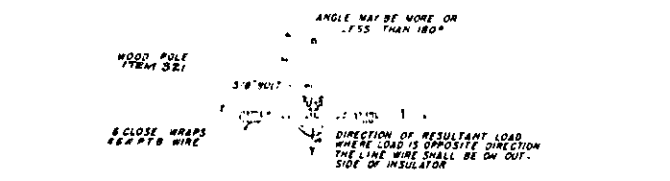
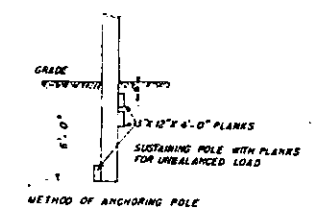
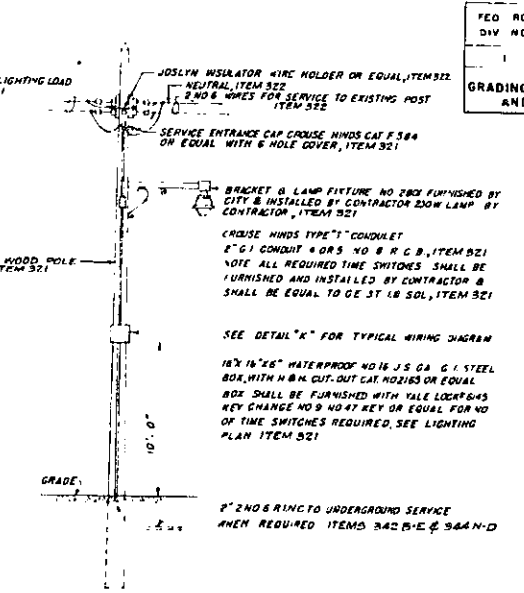
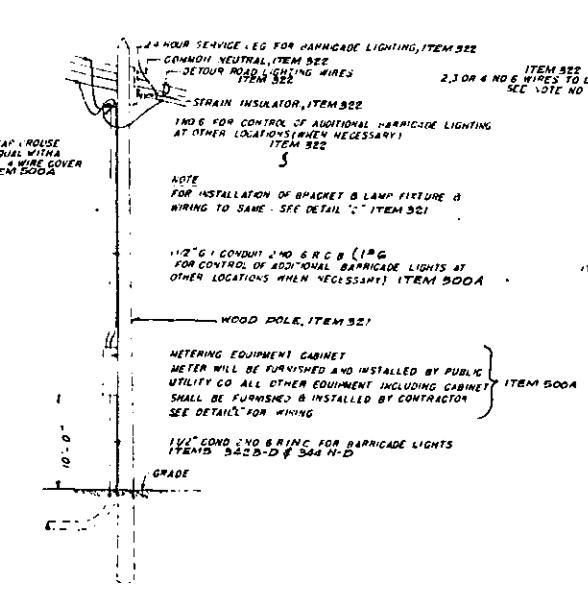
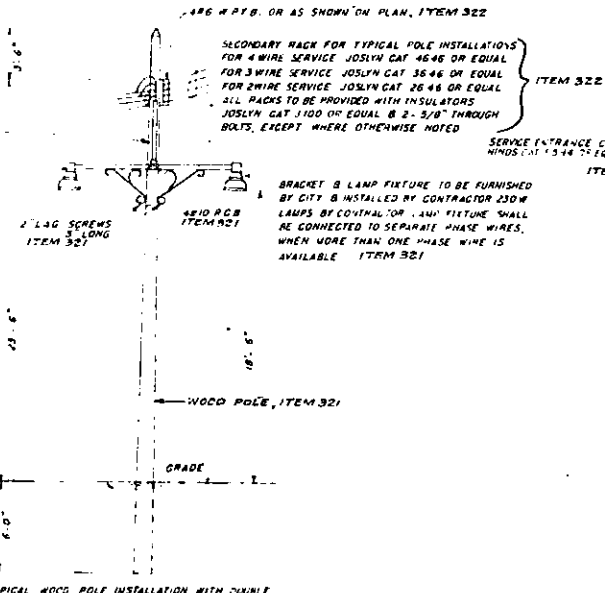


PHASE 60-1

FED. NO.	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIV. NO.		PROJ. NO.	YEAR	NO.	SHEETS
1	N.Y.	ES-76429		14	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

TOP EDGE OF SECONDARY RACK
1/4" X 5" O' LONG ORANGEBURG FIBRE CONDUIT OR EQUAL ITEM 521



NOTES

NOTE 1 WHERE PLAN CALLS FOR CONNECTION TO BARRICADE LIGHTS, ONE OF THE LIGHTING LOAD PHASE WIRES SHALL BE CONNECTED DIRECTLY TO CUT-OUT FOR 24 HOUR SERVICE SEE DETAIL "K", ITEM 500A

NOTE 2 WHEN TEMPORARY LIGHTING LOAD EXCEEDS 30 AMP THE CONTRACTOR SHALL FURNISH AND INSTALL ONE TIME SWITCH WITH 60 AMP RELAY, AUTOMATIC SWITCH CO. TYPE SL 80 OR EQUAL.

NOTE 3 WHERE BARRICADE LOAD EXCEEDS 15 AMPS, THE CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT AS PER DETAIL "M", ITEM 500A

NOTE 4 WHERE BARRICADE LOAD EXCEEDS 30 AMPS, THE CONTRACTOR SHALL USE SEPARATE CUT-OUTS, RATED AT 60 AMPS WITH 35 AMP FUSES ITEM 500A

IN CHARGE OF SEARS & ROBEY
MADE BY CLM
TRACED BY TLB
CHECKED BY JEE

NOTE FOR TEMP. LIGHTING D.W.S. & E.E. D.W.S. NO. SEE SHEET # 3

Rev 12-2-57

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY

ELECTRICAL DETAILS

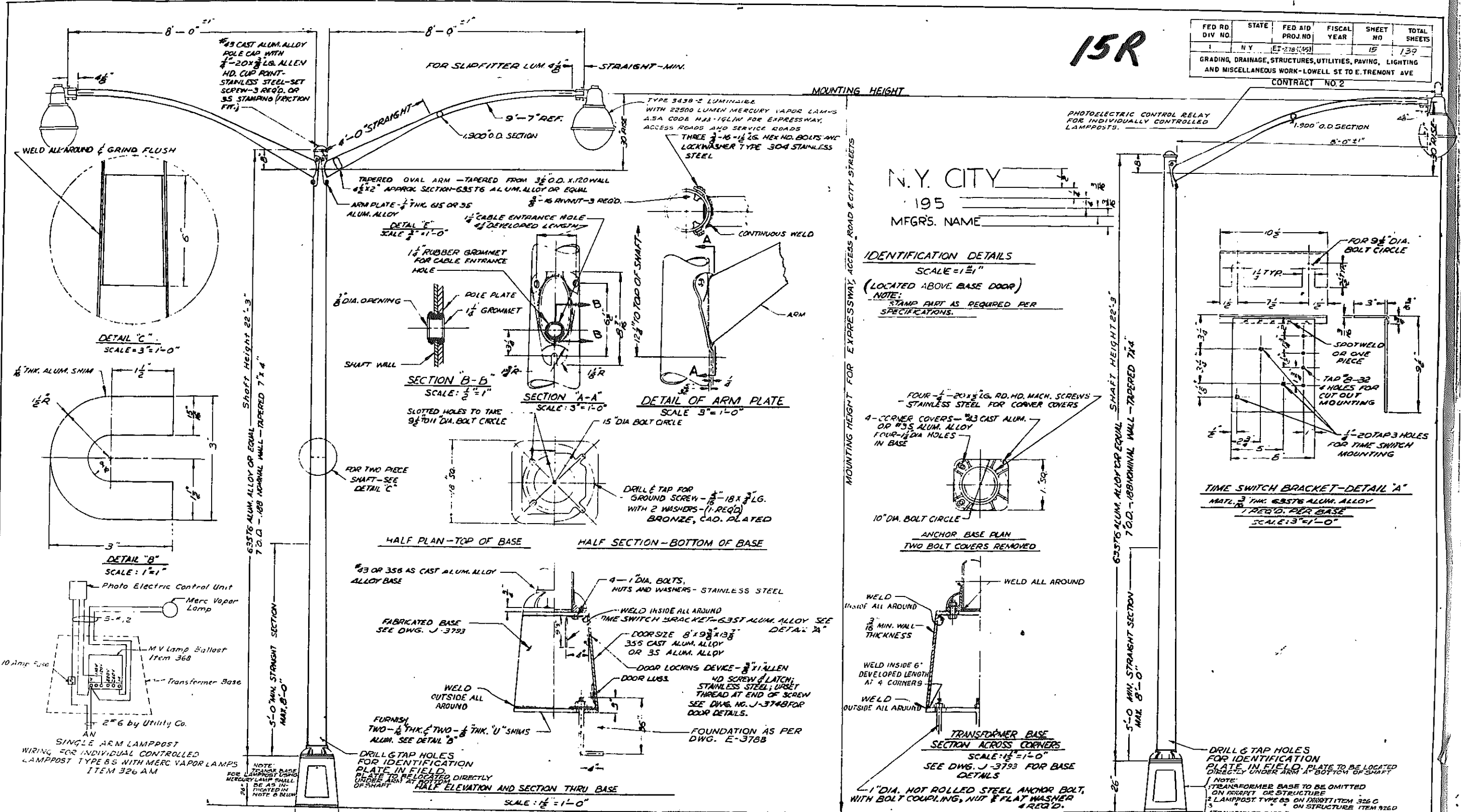
TEMPORARY LIGHTING

SCALE AS NOTED	DATE 11-18-55	PLT. NO. 14
CLARKE & RAPUANO	ENGINEERS	
NEW YORK, N.Y.		

15R

FED RD DIV NO.	STATE	FED AID PROJ NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	ET-278(199)		15	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST TO E. TREMONT AVE
CONTRACT NO. 2



NOTE:
1-ALL CASTING TO BE ALLOYS AS SHOWN ON DRAWING, HEAT TREATMENT AS REQUIRED TO MEET PHYSICAL REQUIREMENTS.
2-ALL SCREWS TO BE STAINLESS STEEL EXCEPT ANCHOR BOLTS.
3-POLE SHAFT TO HAVE 80-120 GRIT SCRATCH FINISH.
4-TRANSFORMER BASE AND MAST ARMS SHALL HAVE A NATURAL ALUM. FINISH OBTAINED BY A DETERGENT OR CHEMICAL DNP.
5-ALUMINUM SHAFTS & TRANSFORMER BASES TO BE INTERCHANGEABLE WITH CORRESPONDING STEEL PARTS, EXCEPT BOLT COVERS AND ARM MOUNTING.
6-MOUNTING HEIGHT AND BOLT CIRCLE OF LIGHT STANDARD TO BE VERIFIED IN FIELD.
7-FOR LAMPOSTS B5 & B8, BASE, DOOR, & FOUNDATION DWGS. & E DWG. NOS. SEE SHEET B.
8-FOR LAMPOSTS USING MERCURY VAPOR LUMINAIRES THE FABRICATED TRANSFORMER BASE SHALL BE 18" SQUARE AT BOTTOM & 20" HIGH AND SHALL CONFORM TO DWG. NO. J-3793.
9-WIRING DIAGRAMS FOR GROUP CONTROLLED TYPE B5 & B8 LAMPOSTS WITH MERCURY LAMPS SHALL BE AS SHOWN SHEET 16.

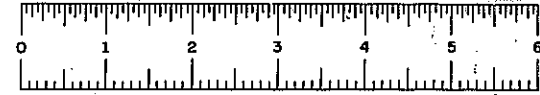
REVISIONS:
Revised by Shumavon, Buckley & Goul
Sept. 26, 1961
Rev. Oct. 4, 1961

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY
ELECTRICAL DETAILS
TYPE B LAMPOSTS

SCALE: AS SHOWN
DATE: 10-18-56
SHEET NO: 15
CLARKE & RAPUANO
NEW YORK, N.Y. ENGINEERS

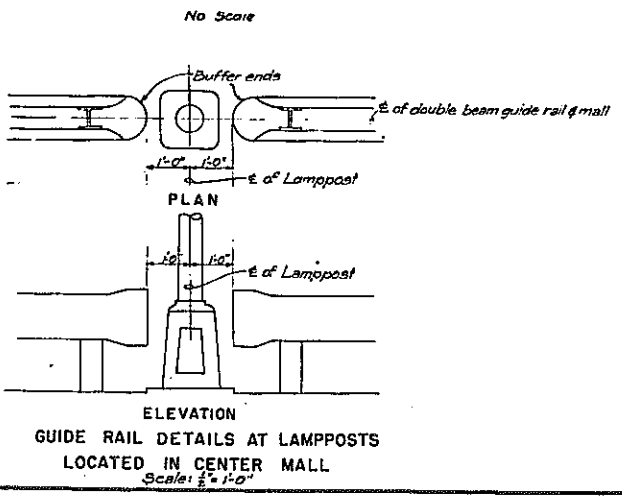
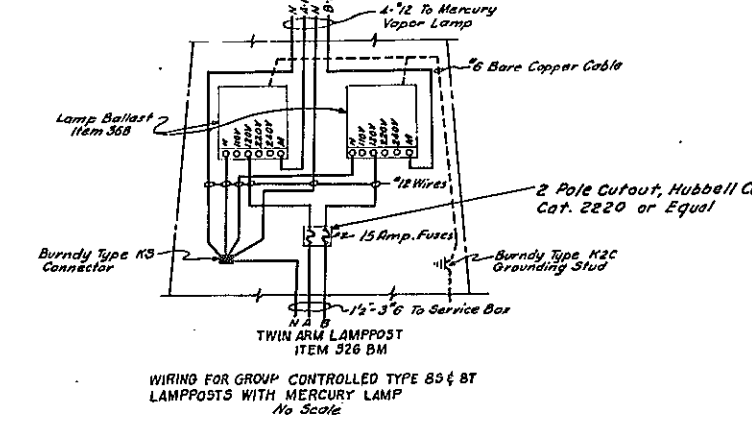
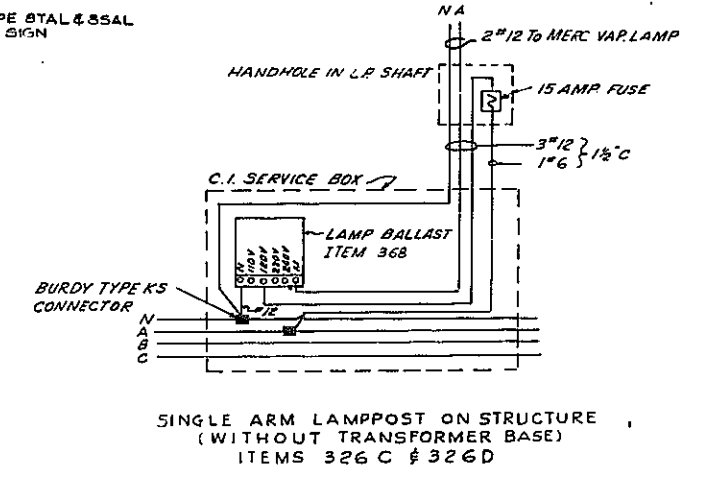
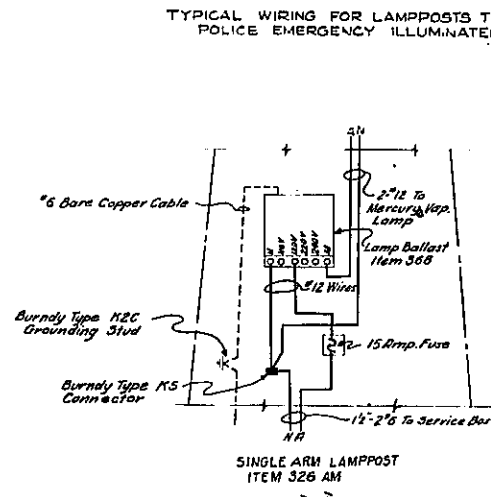
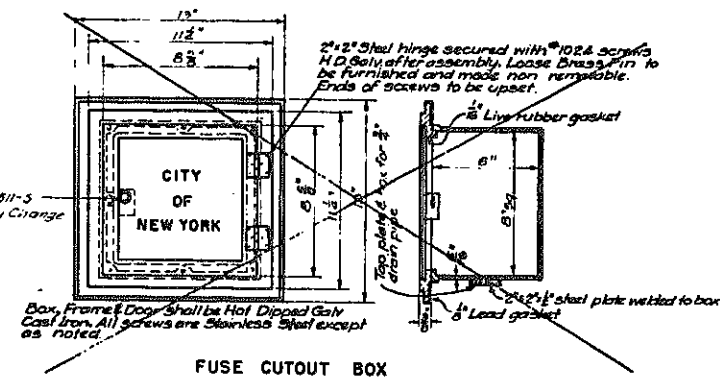
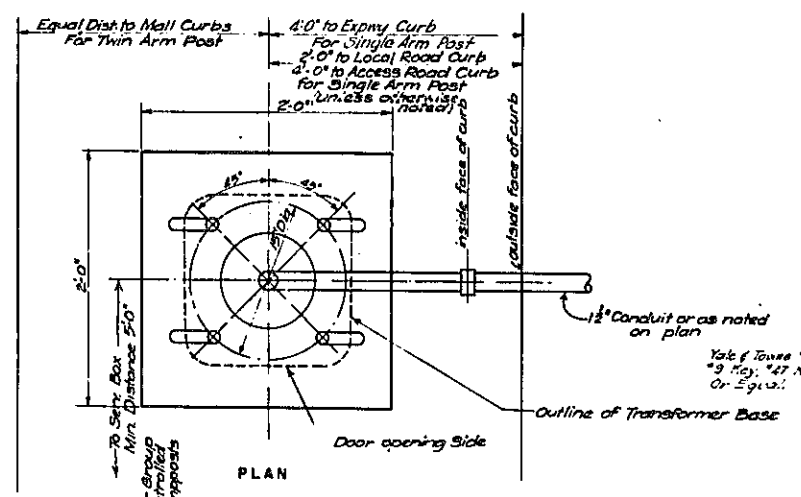
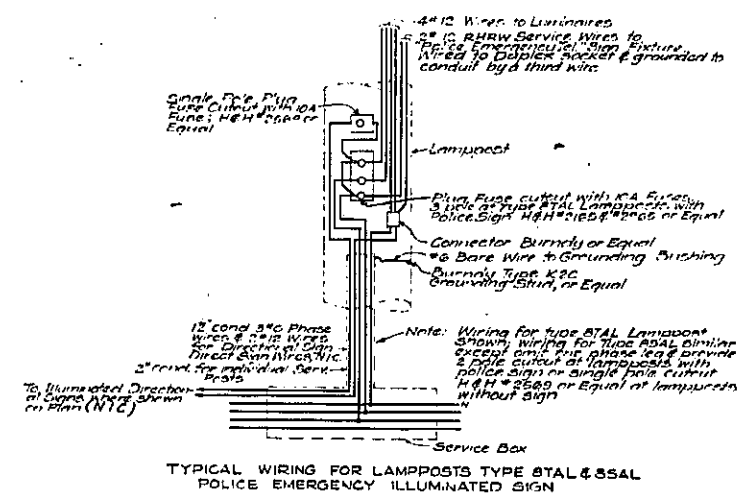
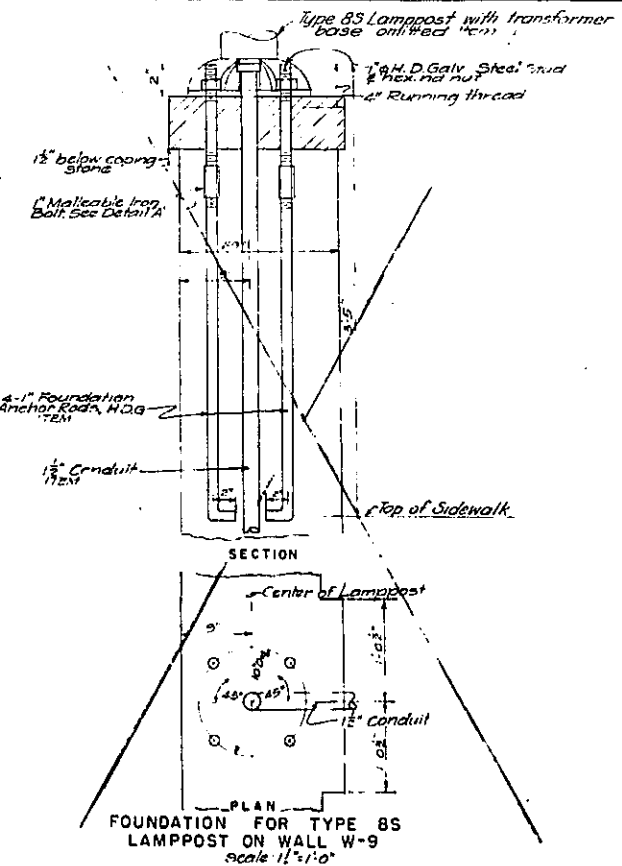
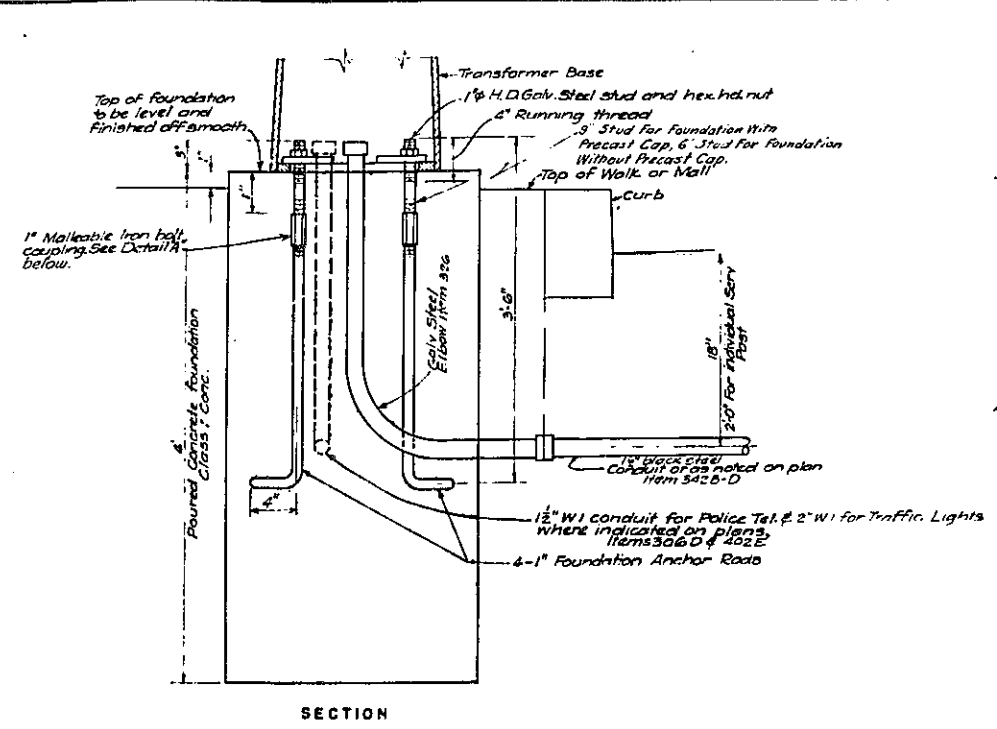
200-2



16R

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
1	N.Y.	EX-215-1(45)		16	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.



NOTES
1 For details of lamppost foundation on Structure # 52, see Sheet No 63
2 For Fuse C.O. Box & Foundation for Type 8S & 8T Lamppost, D.W.S.G.E. ring No. 1, see Sheet 13

CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

ELECTRICAL DETAILS
TYPE 8 LAMPOST FOUNDATION
AND MISC.

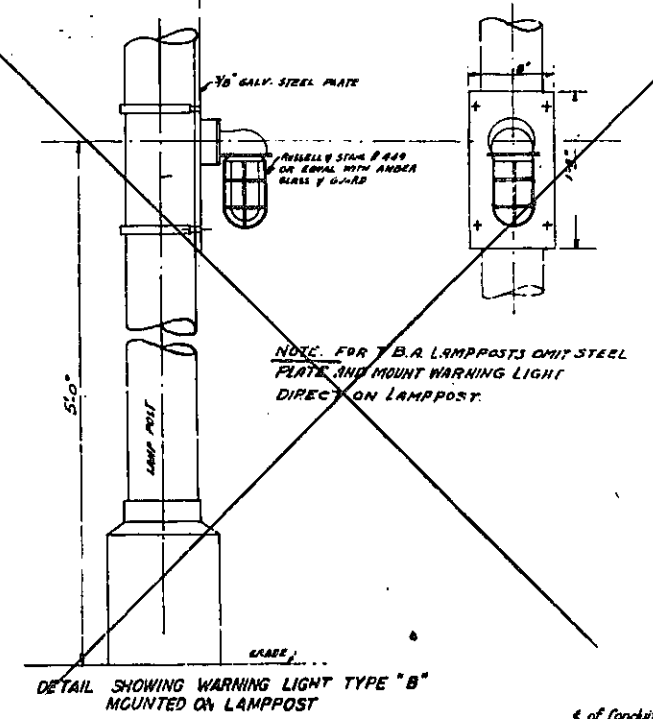
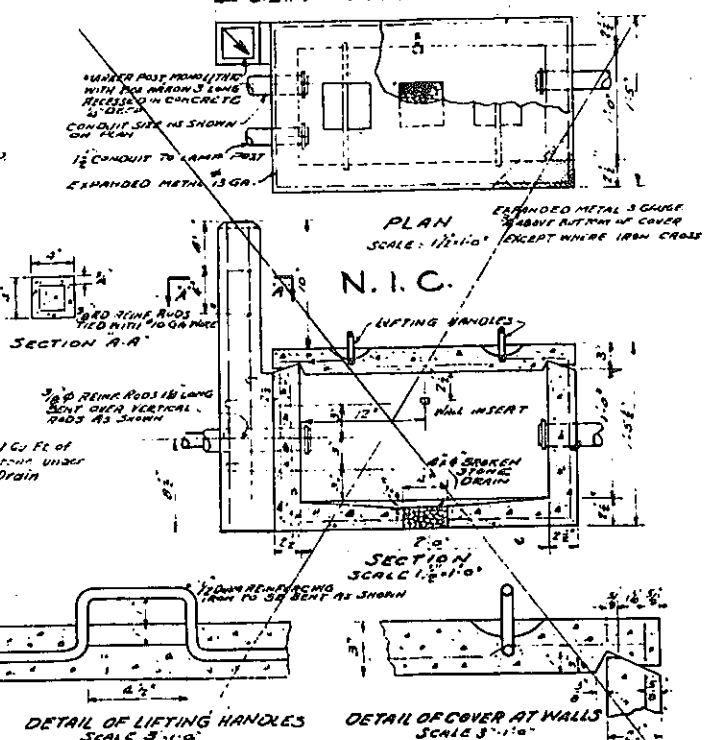
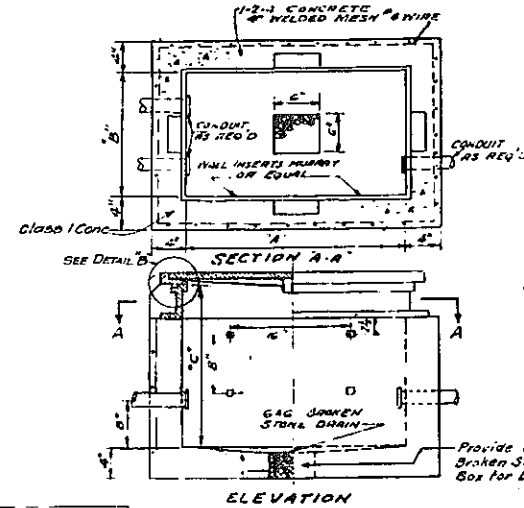
SCALE	As Shown	DATE	2-18-56	SHEET NO	16
CLARKE & RAPUANO			ENGINEERS		
NEW YORK					

In Charge of J.E.E.
Made by J.V.
Traced by J.V.
Checked by J.E.E.

Revised by Shumavan, Buckley & Gaul
Sept. 26, 1961

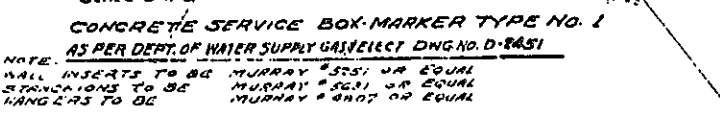
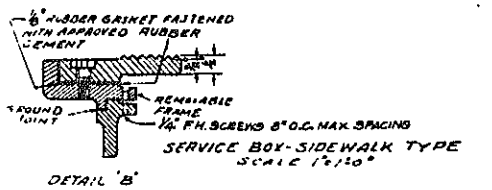
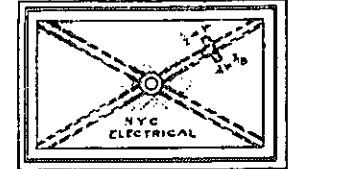
FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	ET-278-1(45)		17	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK - LOWELL ST TO E. TREMONT AVE.
CONTRACT NO. 2



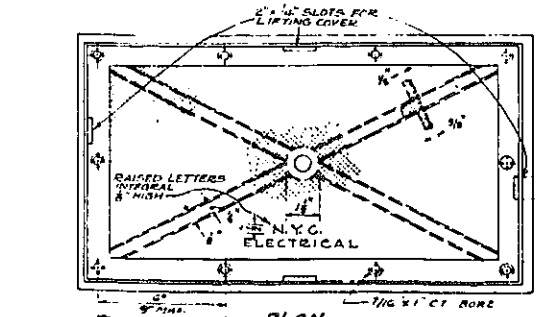
Sidewalk Type Concrete Service Box

Type	A	B	C	Stanchions	Hangers	Insult's	Item No.
1	18	12	26	RF 102	RG 107	RX 004 AI	335 E
2	24	18	26	RF 216	RG 107	RX 004 M	335 F
3	30	18	26	RF 216	RG 107	RX 004 M	335 G
4	36	24	26	RF 216	RG 107	RX 004 M	335 H



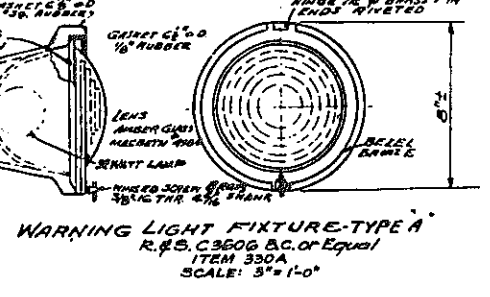
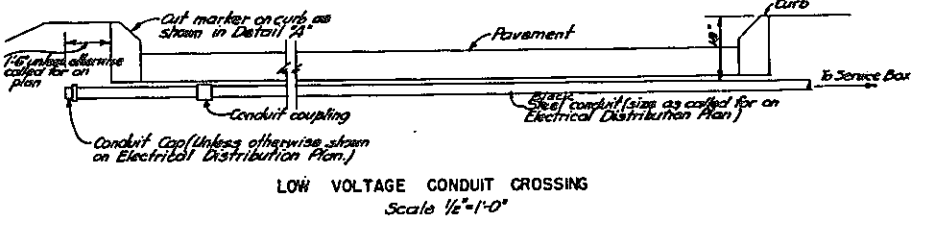
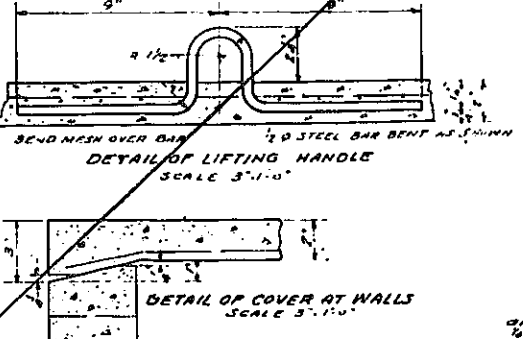
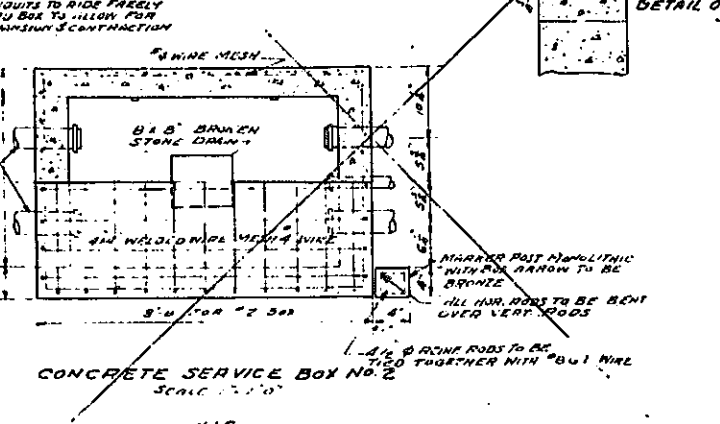
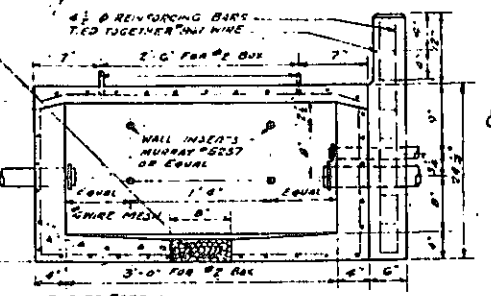
CONCRETE SERVICE BOX-MARKER TYPE NO. 1
AS PER DEPT. OF WATER SUPPLY GAS/ELECT. DNG. NO. D-2451

NOTE:
WALL INSERTS TO BE MURRAY #257 OR EQUAL
STANCHIONS TO BE MURRAY #257 OR EQUAL
HANGERS TO BE MURRAY #257 OR EQUAL



SIDWALK TYPE SERVICE BOX

Box No.	A	B	C	N.A.C.	ITEM #
1	18	12	12		335B
2	24	12	12		
3	30	12	12		



- NOTES
- For details of BT & BS Lampposts see Sheet 19.
 - For details of Fuse Cut-out box, see Sheet 16.
 - For Core Service Box, C.I. Service Box & Warning Light Fixture DWG'S see Sheet 3.

In Charge of C. L. H. & J. E. E.
Made by J. W.
Traced by T. L. B.
Checked by C. L. H. & J. E. E.

NOTE: COVER FRAME & BOX TO BE NOT DIPPED ONLY INSIDE & OUTSIDE. ALL SCREENS FOR BOX SHALL BE FINISH MODEL METAL STAINLESS STEEL STANCHIONS OR EQUAL. BOX TO BE DRILLED TO FIT NUMBERS & SIZE OF CONDUITS.

N. I. C.

CORRECT AS BUILT
Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

ELECTRICAL DETAILS
SERVICE BOXES & MISCELLANEOUS DETAILS

SCALE: 1/4" = 1'-0"	DATE: 11-16-55	SHEET NO. 17
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CLARKE & RAPUANO ENGINEERS
NEW YORK, N.Y.

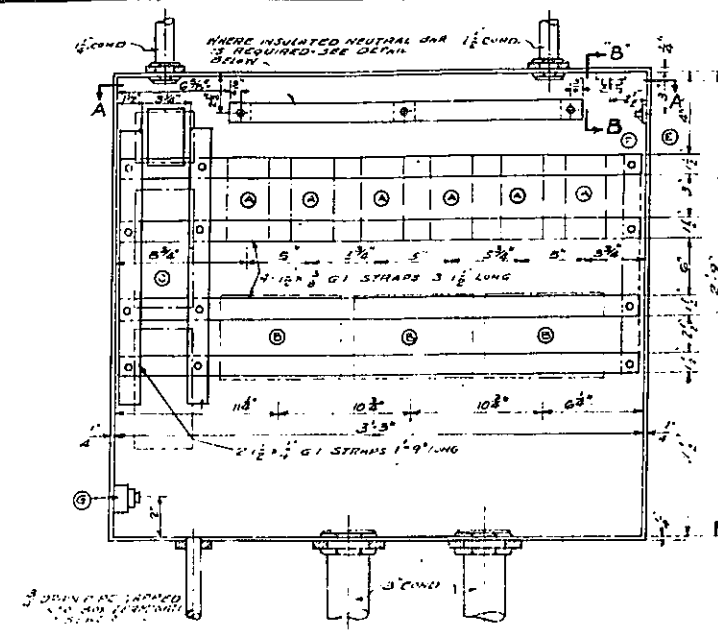


PLATE 60-1

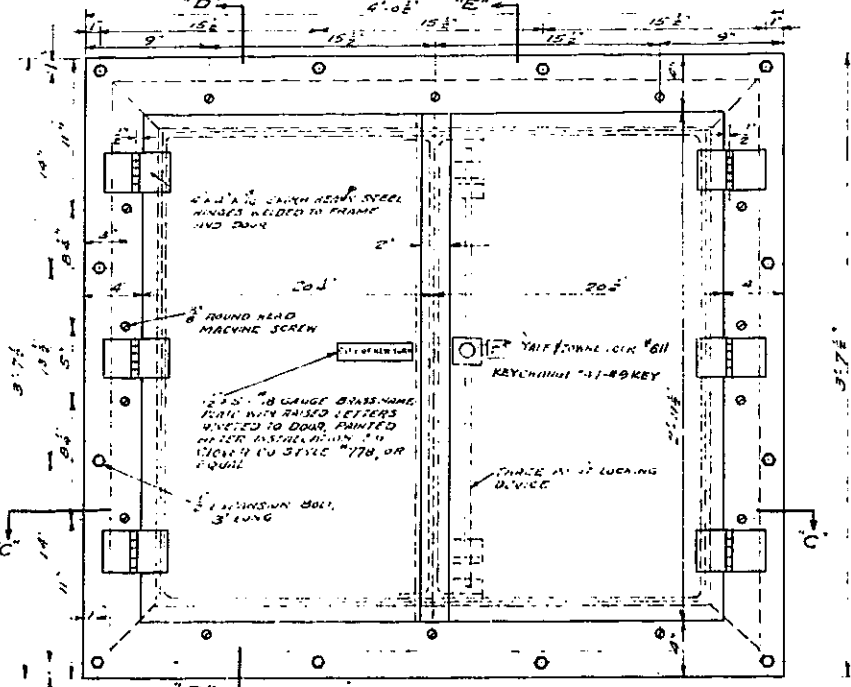
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	ET-278-1(65)		10	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.

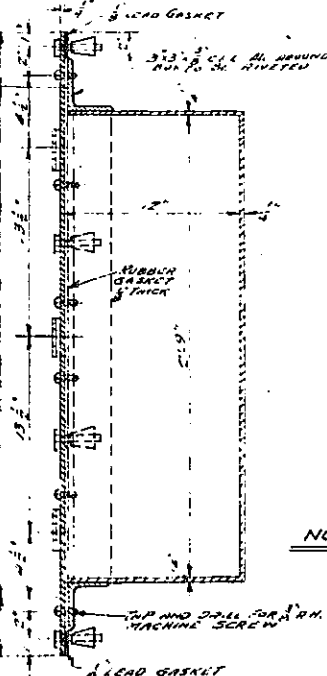
CONTRACT NO. 2



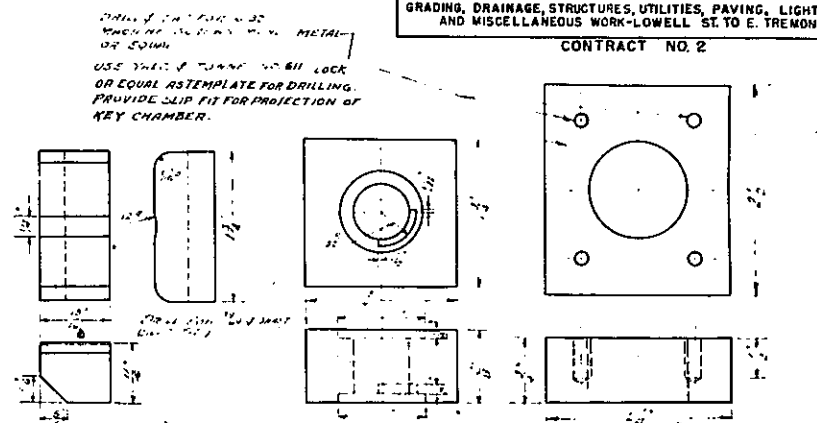
FRONT ELEVATION OF BOX WITH FRAME & DOORS REMOVED
SCALE 2" = 1'-0"



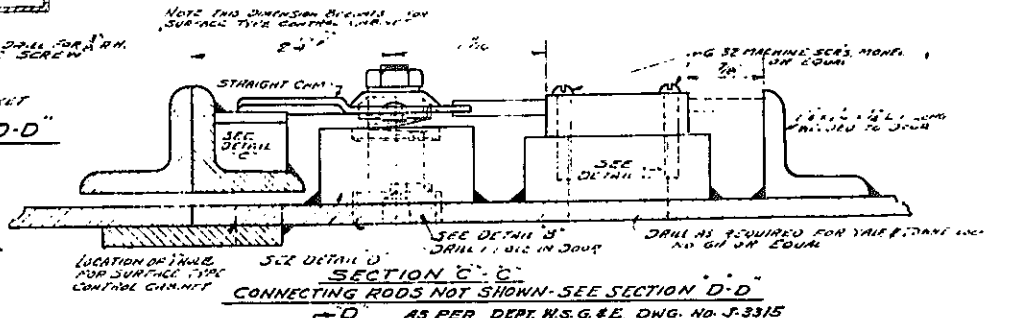
FRONT ELEVATION OF BOX WITH FRAME & DOORS IN POSITION
SCALE 2" = 1'-0"



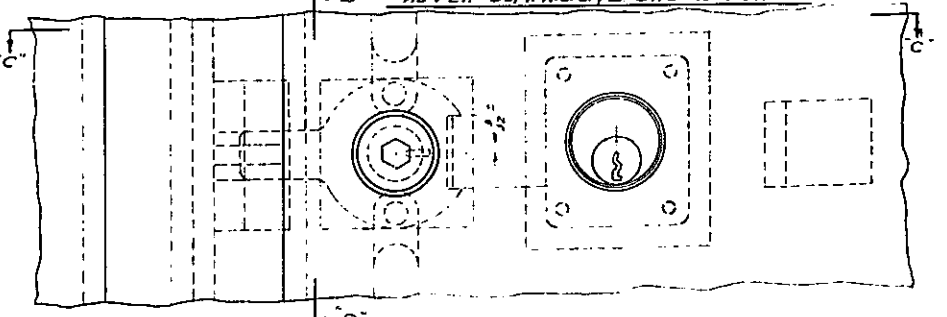
SECTION D-D



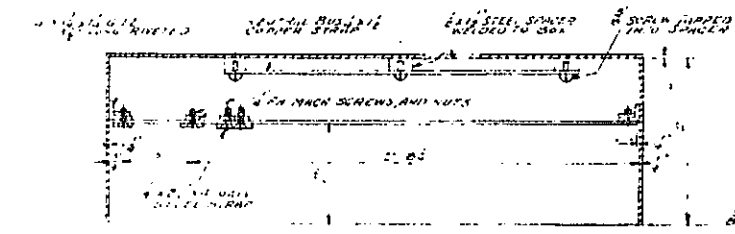
DETAIL C
DETAIL D
DETAIL E
NOTE: DETAILS C, D, E TO BE STEEL PLATE HOT DIPPED GALVANIZED AFTER FABRICATION.



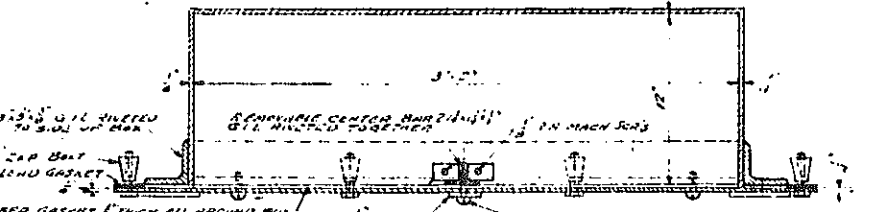
SECTION C-C
CONNECTING RODS NOT SHOWN-SEE SECTION D-D
AS PER DEPT. N.S.G. & E. DWG. NO. J-3315



ELEVATION DETAIL A



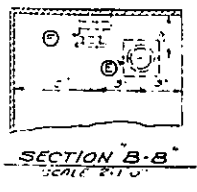
SECTION A-A



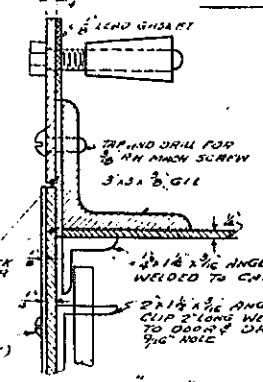
SECTION C-C

NOTES:
STEEL REINFORCING PLATES AT CONDUIT ENTRIES SHALL BE DETERMINED BY THE FOLLOWING SIZES
NO. CONDUIT
1" 3/4" x 1/4"
2" 2" x 1/4"
3" 2 1/2" x 1/4"
4" 3" x 1/4"
6" 4 1/2" x 1/4"

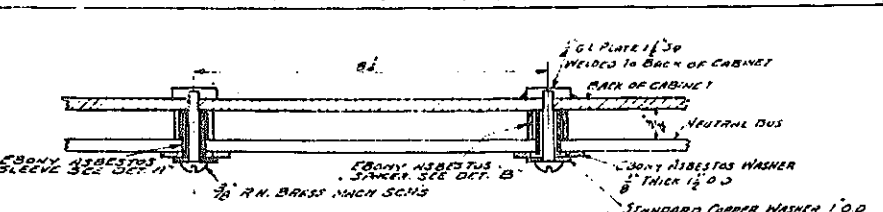
NOTES:
CONTROL PANEL BOX TO CONSIST OF 1/4" COPPER BEARING STEEL PLATE WELDED TOGETHER WITH 1/4" WELD. INSIDE & OUTSIDE OF CONTROL PANEL BOX SHALL BE NOT GALVANIZED. INSIDE & OUTSIDE TO BE PAINTED WITH ALUMINUM ENAMEL. WELLS & LACED RESISTING COPPER BUS SHALL BE 1/4" MIN. THICK OR EQUAL. AND APPLICABLE TO 1/4" MIN. THICK (MINIMUM) OF THREE (3) CONDUITS OF "DUO" OR EQUAL AFTER INSULATING COLOR OF PAINT SHALL BE DETERMINED BY THE ENGINEER. POSITION'S AND NUMBER OF CONDUIT ENTRIES INTO BOX SHALL BE DETERMINED FROM LIGHTING PLAN. CONDUITS ENTERING BOX SHALL HAVE A SLIP FIT & BE EQUIPPED WITH 1/2" SLEEVE NUTS OR TYPE "NLS" BUSHING OR EQUAL. ALL LUGS IN BOX SHALL BE BUSHING OR TYPE "NLS" BUSHING OR EQUAL. ALL BOLTS NUTS & SCREWS FOR BOX SHALL BE OF NONFERROUS METAL OR EQUAL.



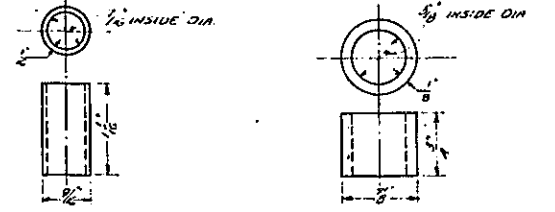
SECTION B-B
SCALE 2" = 1'-0"



SECTION E-E
SCALE HALF SIZE

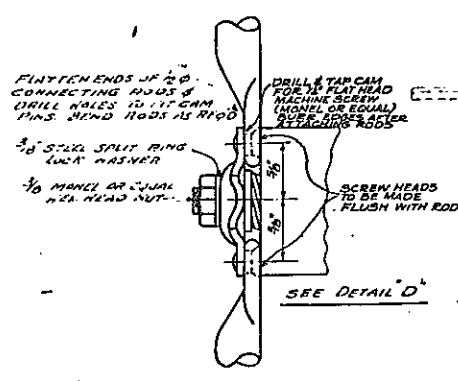


METHOD OF INSTALLING INSULATED NEUTRAL BUS IN CONTROL CABINET
SCALE HALF SIZE

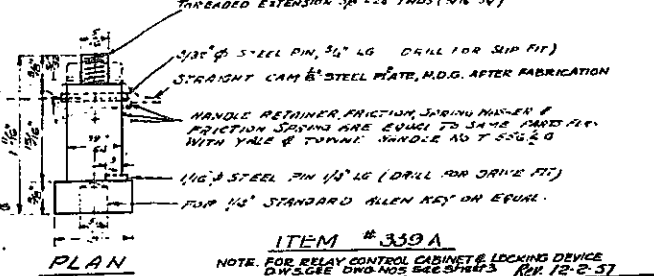


DETAIL A
EBONY ASBESTOS SLEEVE
SCALE FULL SIZE

DETAIL B
EBONY ASBESTOS SPACER
SCALE FULL SIZE



SECTION D-D



PLAN



DETAIL B

CORRECT AS BUILT

IN CHARGE OF C.L.M.
MADE BY J.W.
TRACED BY J.W.
CHECKED BY C.L.M. & J.E.E.

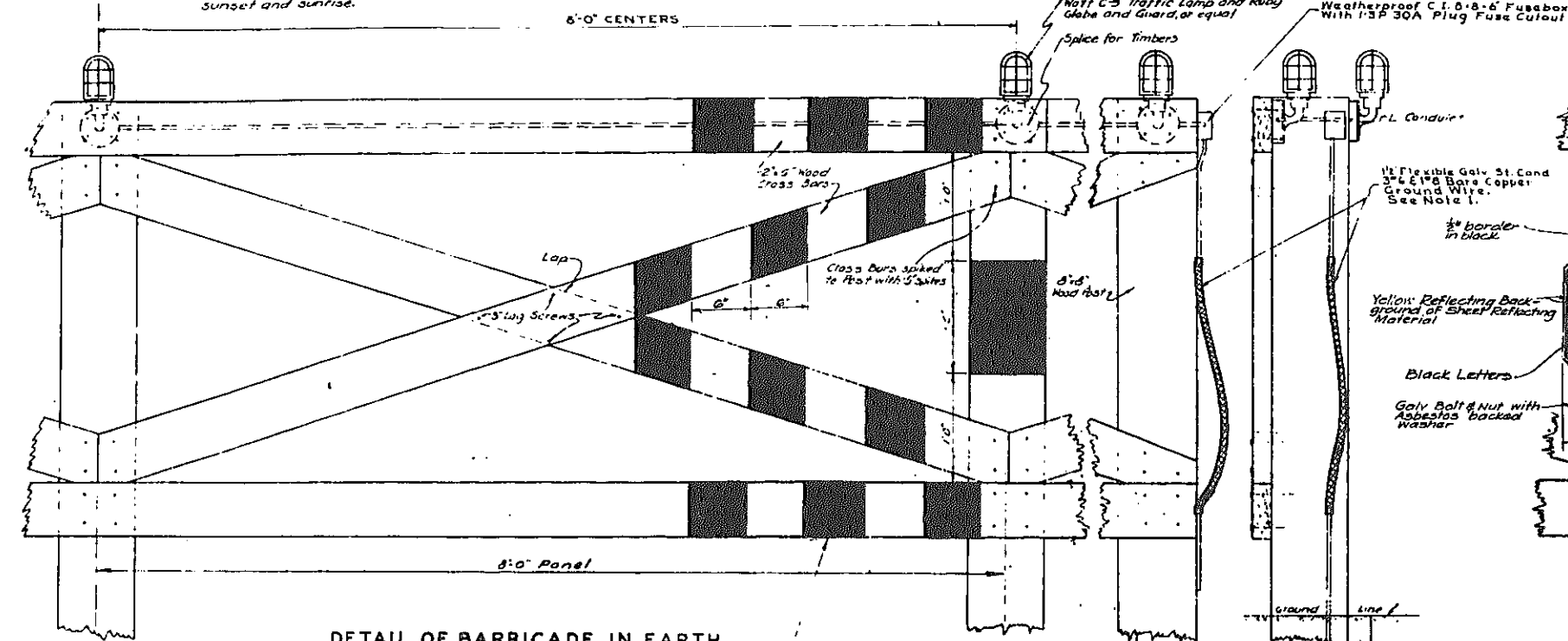
ITEM # 339 A
NOTE: FOR RELAY CONTROL CABINET & LOCKING DEVICE. D.W.S. SEE DWG. NOS. 339-1, 339-2, 339-3, 339-4, 339-5, 339-6, 339-7, 339-8, 339-9, 339-10, 339-11, 339-12, 339-13, 339-14, 339-15, 339-16, 339-17, 339-18, 339-19, 339-20, 339-21, 339-22, 339-23, 339-24, 339-25, 339-26, 339-27, 339-28, 339-29, 339-30, 339-31, 339-32, 339-33, 339-34, 339-35, 339-36, 339-37, 339-38, 339-39, 339-40, 339-41, 339-42, 339-43, 339-44, 339-45, 339-46, 339-47, 339-48, 339-49, 339-50, 339-51, 339-52, 339-53, 339-54, 339-55, 339-56, 339-57, 339-58, 339-59, 339-60, 339-61, 339-62, 339-63, 339-64, 339-65, 339-66, 339-67, 339-68, 339-69, 339-70, 339-71, 339-72, 339-73, 339-74, 339-75, 339-76, 339-77, 339-78, 339-79, 339-80, 339-81, 339-82, 339-83, 339-84, 339-85, 339-86, 339-87, 339-88, 339-89, 339-90, 339-91, 339-92, 339-93, 339-94, 339-95, 339-96, 339-97, 339-98, 339-99, 339-100.

ARTHUR V. SHERIDAN EXPRESSWAY
ELECTRICAL DETAILS
RELAY CONTROL CABINET
SCALE: AS NOTED DATE: 11-14-55 SHEET NO: 10
CLARKE B. RAPUANO ENGINEERS
NEW YORK, N.Y.

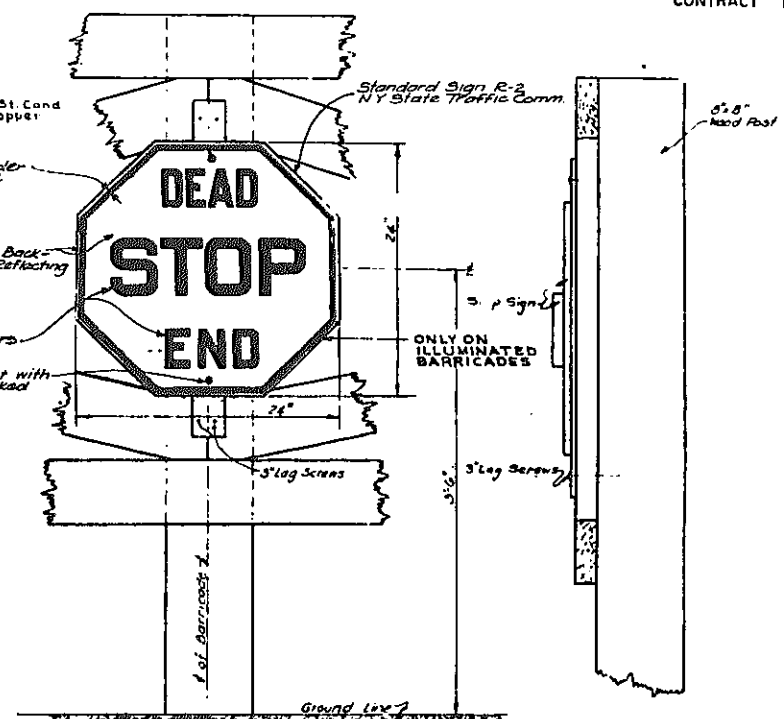
NOTE: The Contractor shall maintain a lighted Red Lamp on each Panel between sunset and sunrise.

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EE-218-(45)		18A	139

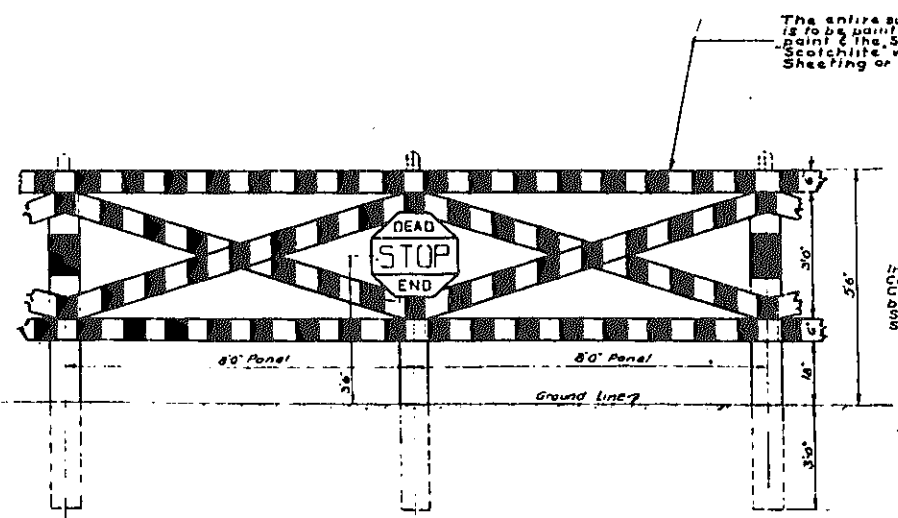
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK LOWELL ST TO E. TREMONT AVE.
CONTRACT NO. 2



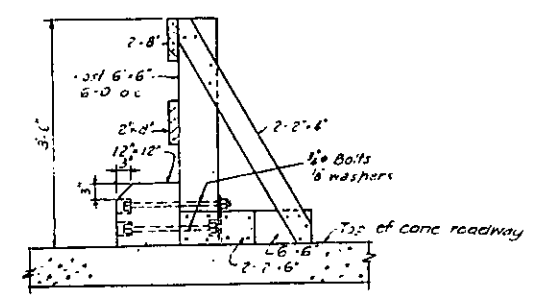
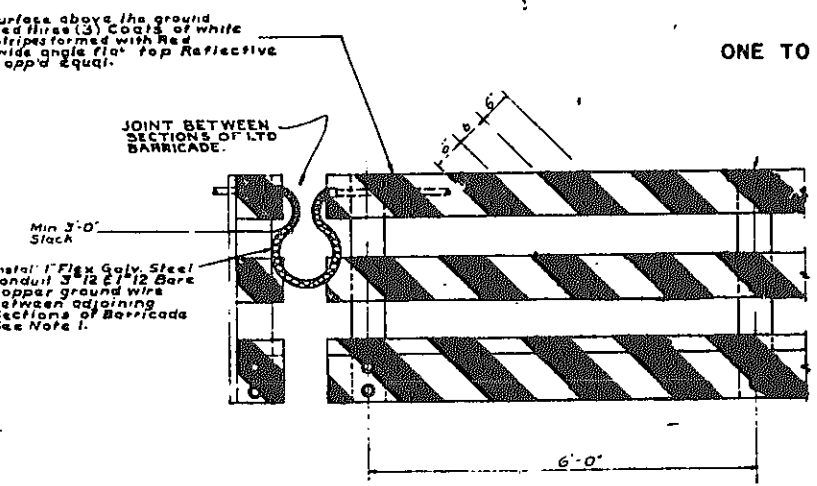
DETAIL OF BARRICADE IN EARTH
ITEM NO. 500B UNLIGHTED (PERMANENT)
ITEM NO. 76S UNLIGHTED (TEMPORARY)
ITEM NO. 500A LIGHTED
Scale - 1/2" = 1'-0"



DETAIL OF STOP SIGN
ONE TO BE USED ON EACH PANEL OF ILLUMINATED BARRICADE
Scale - 1/2" = 1'-0"



DETAIL OF BARRICADE IN EARTH



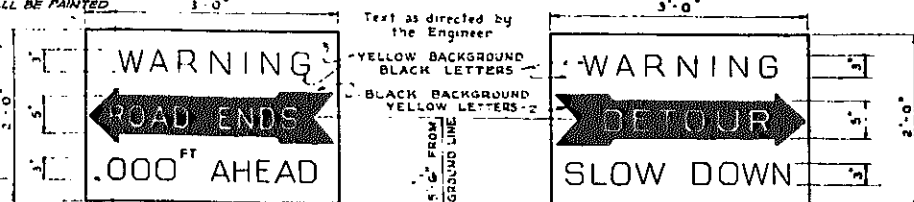
DETAIL OF BARRICADE ON PAVEMENT

ITEM 76S UNLIGHTED (TEMPORARY)
ITEM 500A LIGHTED
ITEM 500B UNLIGHTED (PERMANENT)
Scale - 1/2" = 1'-0"

Note: Lighting similar to details shown above except light fixtures are on 6" chds. in place of 8" chds.

NOTE: YELLOW PORTION SHALL BE YELLOW REFLECTORIZED MATERIAL, SCOTCHLITE OR APP'D EQUAL. BLACK PORTION SHALL BE PAINTED BLACK.

Scale - 1/2" = 1'-0"
Posts as shown are to be used as directed by the Engr.



DETAIL OF WARNING SIGN - TYPE 'B'
ITEM NO. 76S Scale - 1" = 1'-0"

ILLUMINATED WARNING SIGN (TYPE 'A')
NOTE FOR ILLUMINATED WARNING SIGNS TYPE 'A' - LETTERS ON SIGN SHALL BE PAINTED IN ACCORDANCE WITH DWG #56-435. SIGN SHALL BE CONSTRUCTED EITHER OF WOOD OR SHEET METAL & SHALL BE FIRMLY BRACED & ANCHORED AS DIRECTED BY THE ENGINEER. ALL WIRING FOR SIGN & BARRICADE LIGHTING BOTH UNDERGROUND & EXPOSED SHALL BE INSTALLED IN STANDARD STEEL CONDUIT, FURNISH & INSTALL NECESSARY CUTOUTS & FUSES AS DIRECTED BY THE ENGINEER. WIRING PROTECTION TO BE SUFFICIENT TO CARRY LOADS IN ACCORDANCE WITH STANDARD CODE REQUIREMENTS. ALL WIRING SHALL BE CONNECTED TO EXISTING LIGHTING SERVICE, PROVIDE MOUNT & WIRE TWO BENJAMIN #9570 REFLECTORS OR APPROVED EQUAL WITH TWO 100 WATT LAMPS ON EACH SIGN AS DIRECTED BY THE ENGINEER. (FOR WARNING SIGN SEE STD. SHEET 52-43)

NOTES:
1- SECURE ALL GROUND WIRES TO NEAREST BOX OR FITTING WITH CORROSION RESISTANT MACHINE SCREWS & LOCKWASHERS. DRILL & TAP BOX & FITTINGS AS REQUIRED.
2- ILLUMINATION DETAILS AS SHOWN APPLY TO BOTH TYPES OF BARRICADES.
3- STOP SIGNS ARE TO BE INSTALLED AS SHOWN ON ALL ILLUMINATED BARRICADES.

CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

BARRICADE & WARNING SIGN DETAILS

SCALE AS NOTED	DATE 7-10-56	SHEET NO. 18A
CLARKE & RAPUANO		ENGINEERS
NEW YORK N.Y.		

In Charge of J.E.E.
Made by J.W.
Traced by J.W.
Checked by J.E.E.

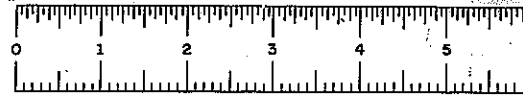
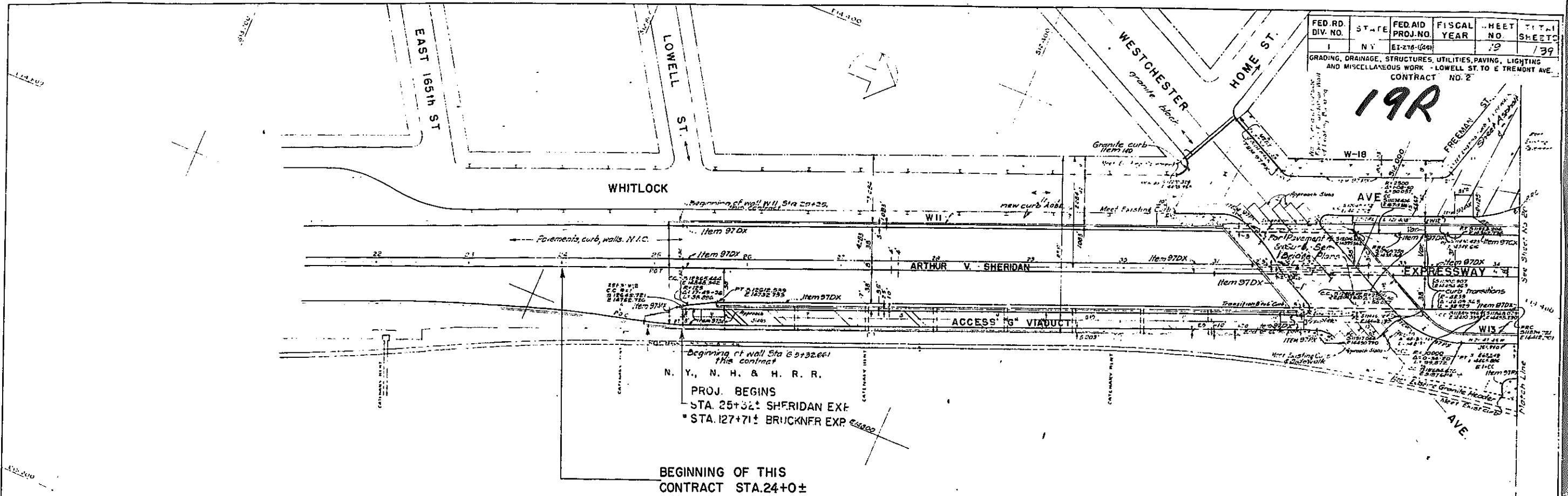


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	EI-276-69		19	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E TREMONT AVE. CONTRACT NO. 2

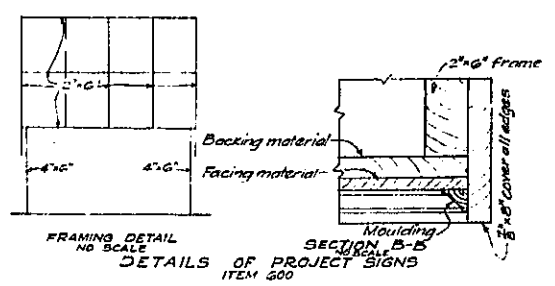
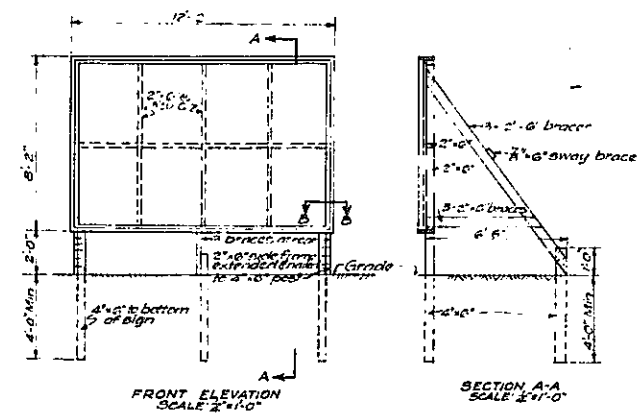
19R



BEGINNING OF THIS
CONTRACT STA. 24+0±

- LEGEND**
- Item 47CVB Cement Concrete Pavement with Carbon Black
 - Item 47V " " " " " "
 - Item 211 Sheet Asphalt Pavement
 - Item 1055 Concrete Sidewalk
 - Item 215B Asphalt Concrete Path Pavement
 - N.I.C. Not in this Contract
 - Item 216 Granite Header
 - Item 47BPS Cement Concrete Pavement (on structure)
 - Item 51MCR Asphalt Concrete Pavement

- NOTES:**
- Two distinct co-ordinate systems are used for this Contract comprising (1) the West Bronx system which extends from the beginning of this Contract to the North Line of E 174th St; and (2) the East Bronx System which extends from the North Line of E 174th St to the End of this Contract.
 - Stake-out data will be furnished to the Contractor after award of Contract.
 - For Grading, Fencing & Stone Block Surfacing See Sheet 16-24
 - " Drainage & Utilities See Sheet No 29
 - " Electrical Distribution " " 33
 - " Expressway Profile, " " 38
 - " Access G " " 39
 - " Paving Details " " 6, 7, 188
- Revised 12-4-52 by Stumova, Buckley & Gool
Curb Alignment at Whitlock Ave. & Access



EXPRESSWAY		Co-ordinates	
Alignment		South	East
P.C. 4+25.0		12693.328	14720.286
V. 22-28-00W L: 1474.326			
P.C. 4+39.7326		11327.686	14164.814
See Sheet No 20			
ACCESS G			
P.C. 6+54.0		12707.551	14781.175
K=392.0 S=59.18 C=62.337 CC		12100.922	14327.113
P.C. 6+58.337 (EXP 25+91.912)		12642.351	14781.000
H. 32-28-00W L: 731.604			
P.C. 1 Whitlock Ave 6+73.00.141		12802.251	14287.325

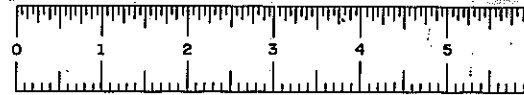
In Charge of Engineer J.E.E.
Made By R.H.
Traced by J.P.
Checked by J.E.E.

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

ALIGNMENT & PAVING PLAN
STA. 25+0± TO STA. 34+25±

SCALE 1" = 50'	DATE 12-15-1955	SHEET NO. 19
CLARKE & RAPUANO NEW YORK		ENGINEERS

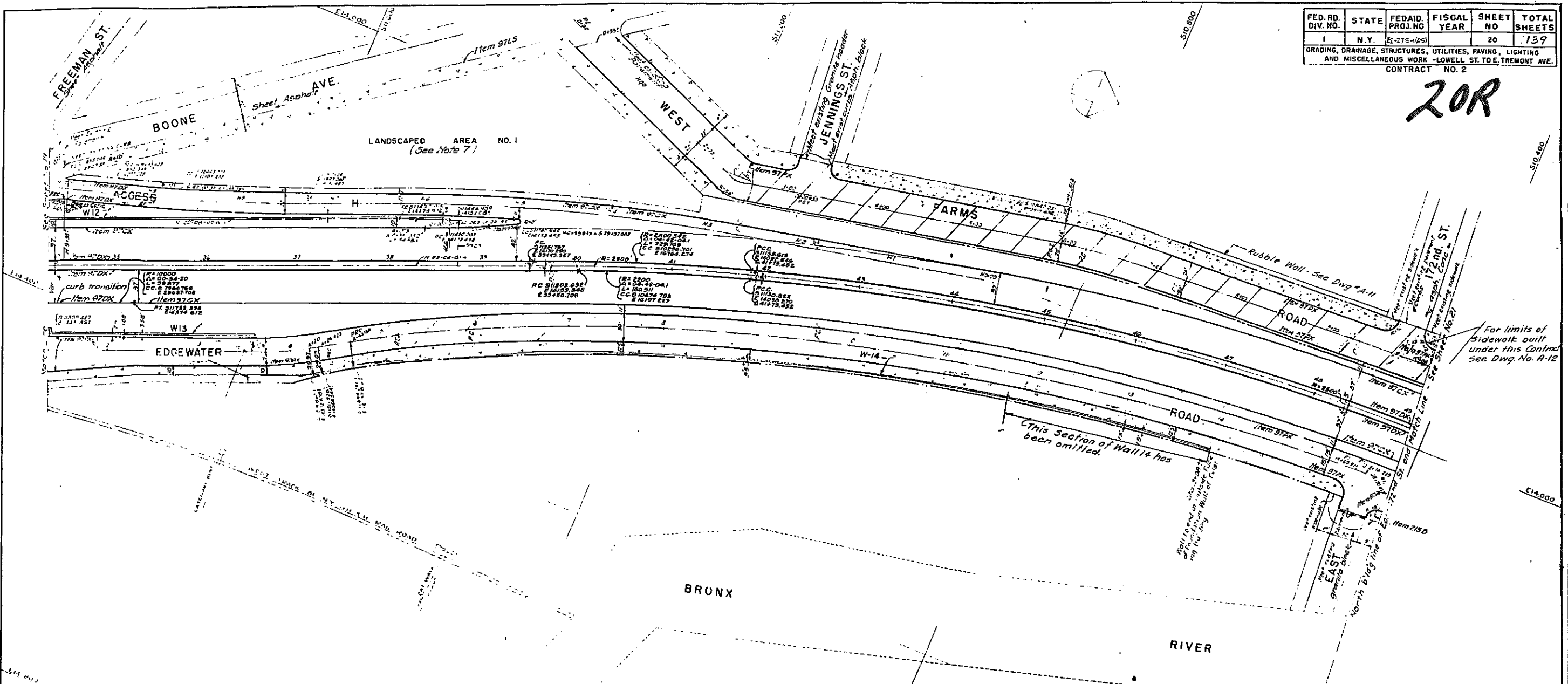


PHASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E-278-(45)	20	139	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

20R



For limits of Sidewalk built under this Contract See Dwg. No. A-12

This Section of Wall 14 has been omitted.

EXPRESSWAY

ALIGNMENT	COORDINATES	
	South	East
P.T. 25+00 See Sheet 19		
P.C. 25+00	10,893.221	14,032.220
P.T. 25+00	10,893.221	14,032.220
P.C. 25+00	10,893.221	14,032.220

ACCESS

ALIGNMENT	COORDINATES	
	South	East
P.T. 25+00	10,893.221	14,032.220
P.C. 25+00	10,893.221	14,032.220
P.T. 25+00	10,893.221	14,032.220

EDGEWATER ROAD

ALIGNMENT	COORDINATES	
	South	East
P.T. 25+00	10,893.221	14,032.220
P.C. 25+00	10,893.221	14,032.220
P.T. 25+00	10,893.221	14,032.220

WEST FARMS ROAD

ALIGNMENT	COORDINATES	
	South	East
P.T. 25+00	10,893.221	14,032.220
P.C. 25+00	10,893.221	14,032.220
P.T. 25+00	10,893.221	14,032.220

- NOTES
- See Legend & Notes on Sheet No. 19
 - For Grading, Paving, etc. See Sheet No. 25
 - Drainage & Utilities " " " 30
 - Electrical Distribution " " " 34
 - Expressway Profile " " " 38
 - Access " " " 35
 - Landscaped Area #1 development See Sheet No. 83

CORRECT AS BUILT

Revised 12-2-55 By Shumway, Buckley & Co. Curv. alignment of Whitlock Ave. & Access 19 Rev. 12-2-55

ARTHUR V. SHERIDAN EXPRESSWAY

ALIGNMENT AND PAVING PLAN
STA. 34+25 TO STA. 49+10±

DATE: 12-5-55 SHEET NO: 20

CLARKE B. RAPIANO NEW YORK ENGINEERS

In Charge of Survey
Made by
Traced by
Checked by

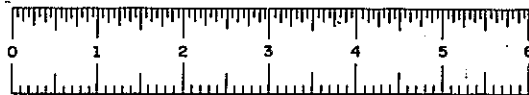
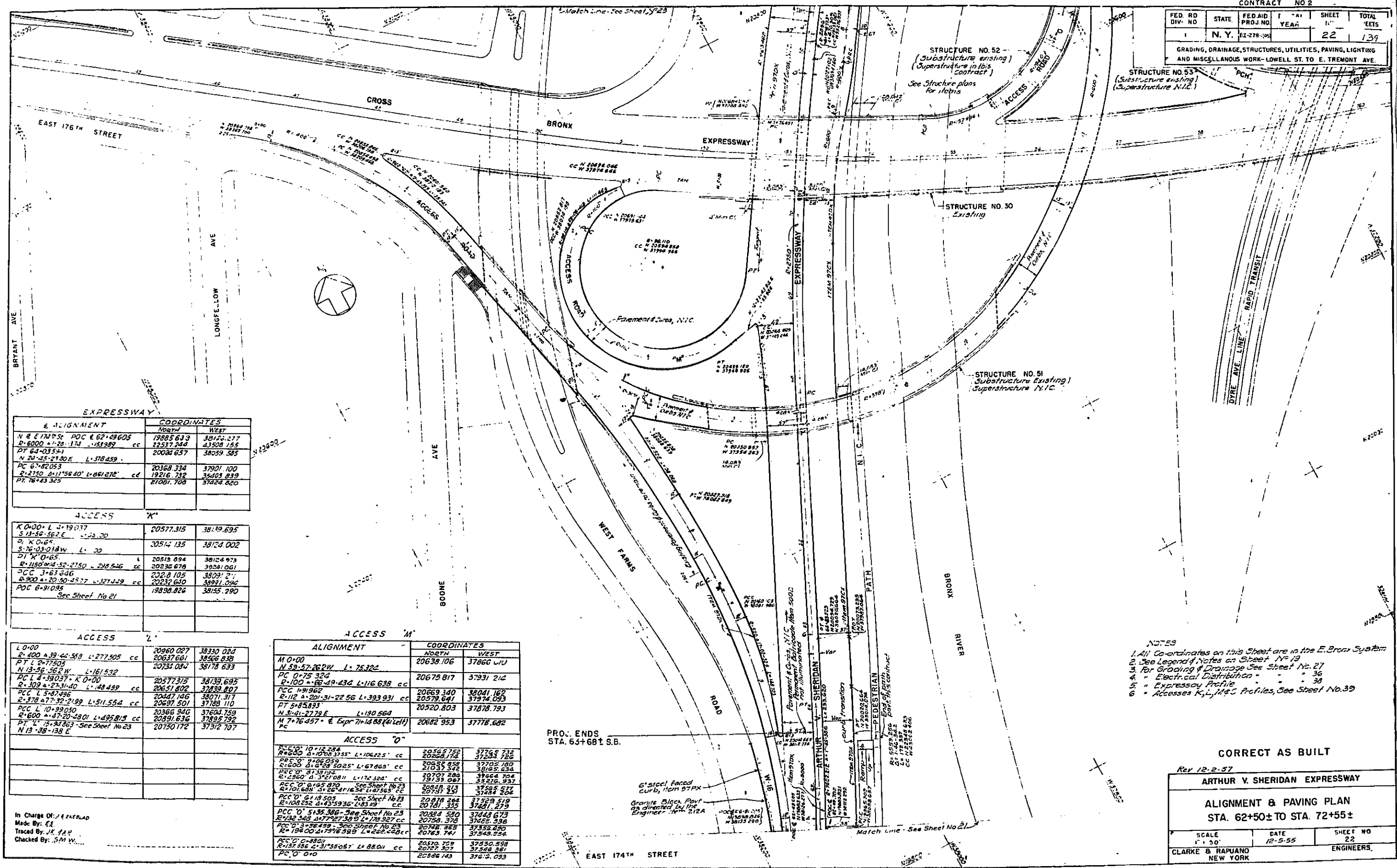


PLATE 60-1

CONTRACT NO 2

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	F. YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	21-278-094		22	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.



E ALIGNMENT	COORDINATES	
	NORTH	WEST
N.E. E 77° 52' POC E 62+49.605	19885.633	38125.277
R=6000 Δ=128.174 Δ=53989' cc	22517.246	43508.155
PT 64+03.547	20034.657	38059.585
N Δ=128.174 Δ=53989' cc		
PC 67+82.053	20368.334	37901.100
R=2750 Δ=111° 56' 40" L=861.272' cc	19216.732	36403.839
PT 76+43.325	21081.708	37428.820

ACCESS 'K'	COORDINATES	
	NORTH	WEST
K 0+00 L 3+19.037	20577.315	38149.695
S 13-56-56.2 E Δ=23.20		
O K 0+65	20514.135	38124.002
S 76-03-01.8 W L=20		
D1 K 0+65	20513.694	38124.973
R=1150 Δ=18-52-27.50 L=209.546 cc	20236.678	38241.061
CCC J=63.846	20218.105	38031.211
R=300 Δ=20-50-45.77 L=327.429 cc	20232.640	38091.096
POC 6+91.095	19838.826	38155.290

ACCESS 'L'	COORDINATES	
	NORTH	WEST
L 0+00	20960.027	38130.024
R=400 Δ=39-44-58.8 L=277.505 cc	20637.661	38566.838
PT L 2+77.505	20733.084	38178.633
N 13-56-56.2 W L=161.532		
PC L 4+39.037 K 0+00	20577.315	38139.695
R=309 Δ=27-31-40 L=148.489 cc	20651.602	37839.807
CCC L 5+87.496	20447.146	38071.317
R=378 Δ=17-32-21.99 L=511.554 cc	20697.501	37788.110
CCC L 10+99.050	20366.946	37604.759
R=600 Δ=47-20-48.01 L=495.913 cc	20891.636	37895.792
PT 11+34.863 See Sheet No 23	20750.172	37312.707
N 13-56-138 E		

ALIGNMENT	COORDINATES	
	NORTH	WEST
M 0+00	20638.106	37860.111
N 59-57-26.2 W L=75.324		
PC 0+75.324	20675.817	37931.214
R=100 Δ=88-49-43.0 L=116.638 cc		
CCC 1+91.962	20669.340	38041.167
R=112 Δ=20-31-22.56 L=393.931 cc	20579.641	37974.093
PT 5+85.893	20520.803	37678.793
N 3-41-27.2 E L=190.564		
M 7+76.457 E & Expr 7+14.88 (4' left)	20682.953	37778.682
PC		

ACCESS 'O'	COORDINATES	
	NORTH	WEST
R=600 Δ=10-16-28.4	20562.752	37745.732
R=600 Δ=10-16-28.4 L=104.225' cc	20828.174	37234.786
PRE O 9+06.059	20635.628	37705.780
R=600 Δ=6-08-50.25 L=67.865' cc	20733.084	38178.633
PRE O 9+73.918	20707.286	39664.704
R=5860 Δ=3-51-08.11 L=172.324' cc	19797.087	35276.937
CCC O 6+165.870 See Sheet No 23	20848.215	37565.877
R=101.638 Δ=26-41-16.34 L=473.65' cc	20737.251	37288.524
CCC O 6+18.505 See Sheet No 23	20878.264	37529.519
R=168.232 Δ=43-59-36 L=83.19' cc	20761.355	37421.279
CCC O 5+138.306 See Sheet No 23	20384.530	37448.673
R=132.422 Δ=47-27-39.9 L=178.327' cc	20758.378	37682.536
CCC O 3+78.439 See Sheet No 23	20748.863	37352.650
R=194.00 Δ=79-16-38.8 L=262.428' cc	20763.747	37358.754
CCC O 0+88.01	20570.729	37530.588
R=157.356 Δ=31-55-05.7 L=88.01' cc	20727.507	37546.381
PC O 0+00	20866.143	37612.093

- NOTES
- All Co-ordinates on this Sheet are in the E. Bronx System
 - See Legend Notes on Sheet No 19
 - For Grading & Drainage See Sheet No 27
 - Electrical Distribution " " " 36
 - Expressway Profile " " " 38
 - Accesses K, L, M, O Profiles, See Sheet No 39

PROJ. ENDS
STA. 63+681 S.B.

CORRECT AS BUILT

Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

ALIGNMENT & PAVING PLAN
STA. 62+50± TO STA. 72+55±

SCALE 1" = 30'	DATE 12-5-55	SHEET NO 22
CLARKE & RAJUANO NEW YORK ENGINEERS		

In Charge Of: J.E. ENERLAD
Made By: E.A.
Traced By: J.E. YAP
Checked By: S.M.W.

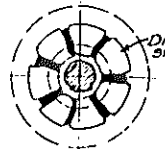
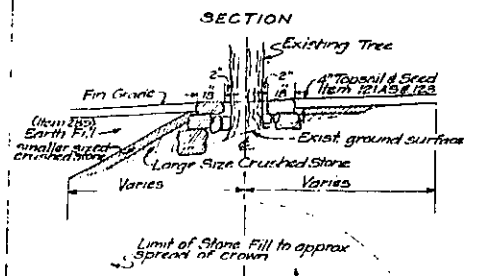
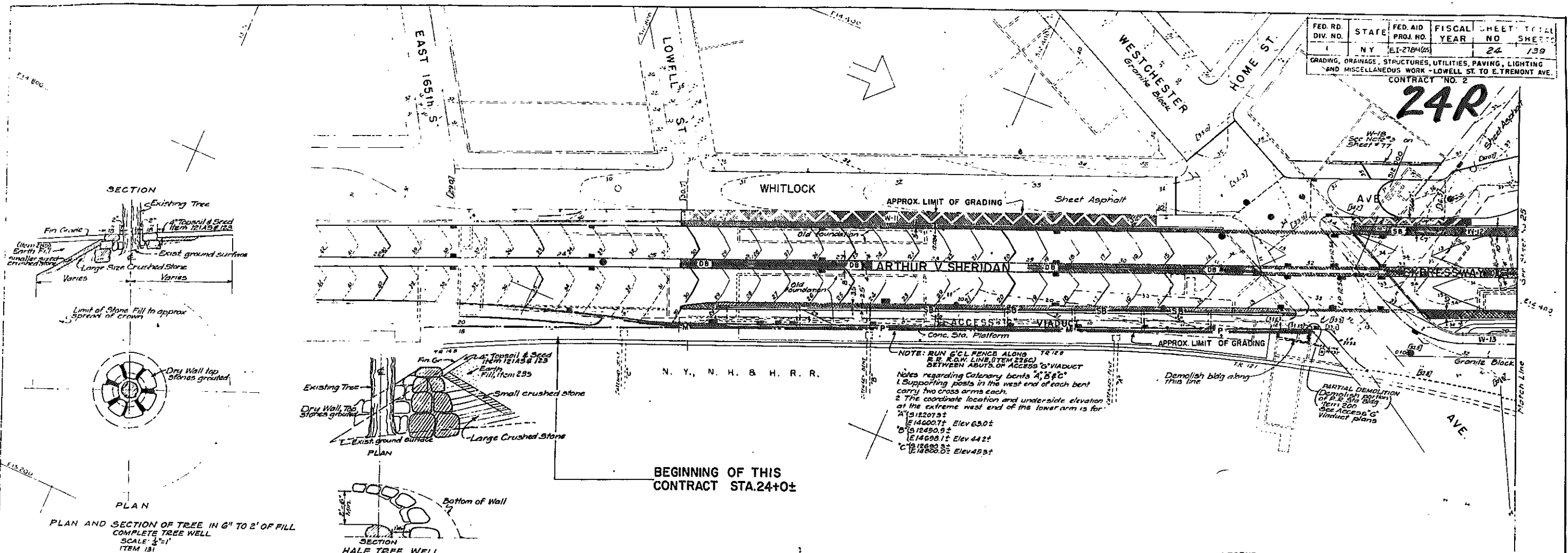


PLATE 60-1

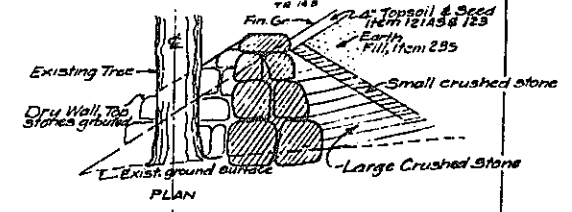
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	ET-2784(25)	24	139	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

24R



PLAN AND SECTION OF TREE IN 6" TO 2' OF FILL COMPLETE TREE WELL SCALE 3/4"=1' ITEM 181

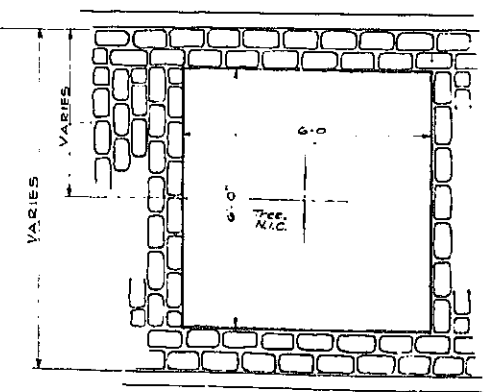


SECTION HALF TREE WELL SCALE 3/4"=1' ITEM 181

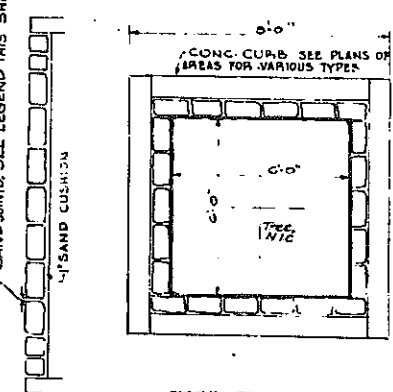
NOTE: RUN 6" C/L FENCE ALONG TR 123 & R.R. R.O.W. LINE (ITEM 225C) BETWEEN ABUTTS OF ACCESSORY VIADUCT

Notes regarding Catenary bents A, B & C:
1. Supporting posts in the west end of each bent carry two cross arms each.
2. The coordinate location and underside elevation of the extreme west end of the lower arm is for:
A 12201.5 Elev 63.0±
B 12490.0 Elev 44.2±
C 12690.0 Elev 45.3±

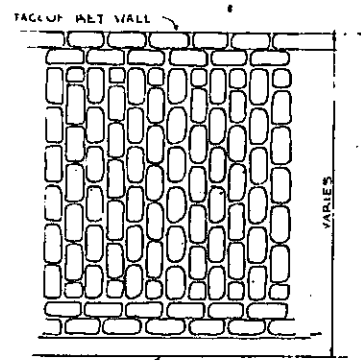
BEGINNING OF THIS CONTRACT STA. 24+0±



TREE PLANTING AREA



TREE PLANTING AREA



CITY STREET SHOULDERS

TYPICAL STONE BLOCK SURFACING PATTERNS ITEM 213

LEGEND

ITEM 225A	4	C	4'-0" Chain Link Fence
ITEM 225C	6	C	6'-0" "
ITEM 225E	8	C	8'-0" "
ITEM 225H	16	C	16'-0" "

ITEM 215A	Stone Block Surfacing, Sand Joints
ITEM 020	Block Shoulders
	Proposed Contours
	Existing Contours
	Manhole in area to be graded
	Manhole outside of area to be graded
	Catch Basin
	Established Legal Grade - Top of Curb
ITEM 226	5'-0" Mesh Protective Mesh Fence on Parapet (For details see Sheet 81 & Acc. to Viaduct plans)
ITEM 35 C	A.O.B.E. As ordered by the Engineer
ITEM 35 MB	Beam Type Guide Railings (single beam) as detailed on NYS and Dwg #17-112
ITEM 213 B	Stone Block Surfacing, Mortar Joints

GENERAL NOTES

1. FENCES SET IN INDIVIDUAL FOOTINGS UNLESS OTHERWISE NOTED. TYPE #8 TOP FLUSH AS DETAILED ON SHEET #8
2. FOR GUIDE RAIL DETAILS SEE SHEET NO. 25621
3. ALL ELEVATIONS REFER TO DATUM USED BY THE BUREAU OF HIGHWAYS & SEWERS, BOROUGH OF THE BRONX, WHICH IS 2.600 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK AS ESTABLISHED BY THE U.S. COAST & GEODETIC SURVEY.
4. IN AREAS OTHER THAN PAVEMENT, GRADE TO TOPSOIL SUBGRADE, SEE LANDSCAPING PLAN
5. FOR ALIGNMENT & PAVING, SEE SHEET No. 19
6. DRAINAGE & UTILITIES, 28
7. ELECTRICAL DISTRIB. 33
8. EXPRESSWAY PROFILE, 35
9. ACCESS G. 39
10. MESH FENCE DETAILS SEE SHEET NO. 81
11. CHAIN LINK FENCE DETAILS SEE SHEET #3 FOR PARK DEPT. DWG. NO. 3
12. ALL DISTURBED AREAS NOT IMPROVED WITH PAVING, ETC. SHALL BE TOPSOILED & SEEDING A.O.B.E. ITEMS 21A3 & 123
13. REMOVAL OF EXISTING GRANITE BLOCK SHALL BE PAID FOR UNDER ITEM 255
14. FOR DETAILS OF DOUBLE BEAM GUIDE RAIL TERMINATION AT CENTER SEE Rev. 12-2-57 WESTCHESTER AVE. BRIDGE SEE SHEET 87
15. Shoulders Under Structures Shall Be

Revised 12-6-62 by Shumavon, Buddy for Item 621 or 620
Extended Stone Block Surfacing at
Whitlock Ave. North of Westchester Ave.

ARTHUR V. SHERIDAN EXPRESSWAY
GRADING, FENCING, STONE BLOCK SURFACING
STA. 25+0± TO STA. 34+25±

SCALE	DATE	SHEET NO.
1" = 50'	12-8-55	24
CLARKE & RAPUANO		ENGINEERS
NEW YORK		

CORRECT AS BUILT

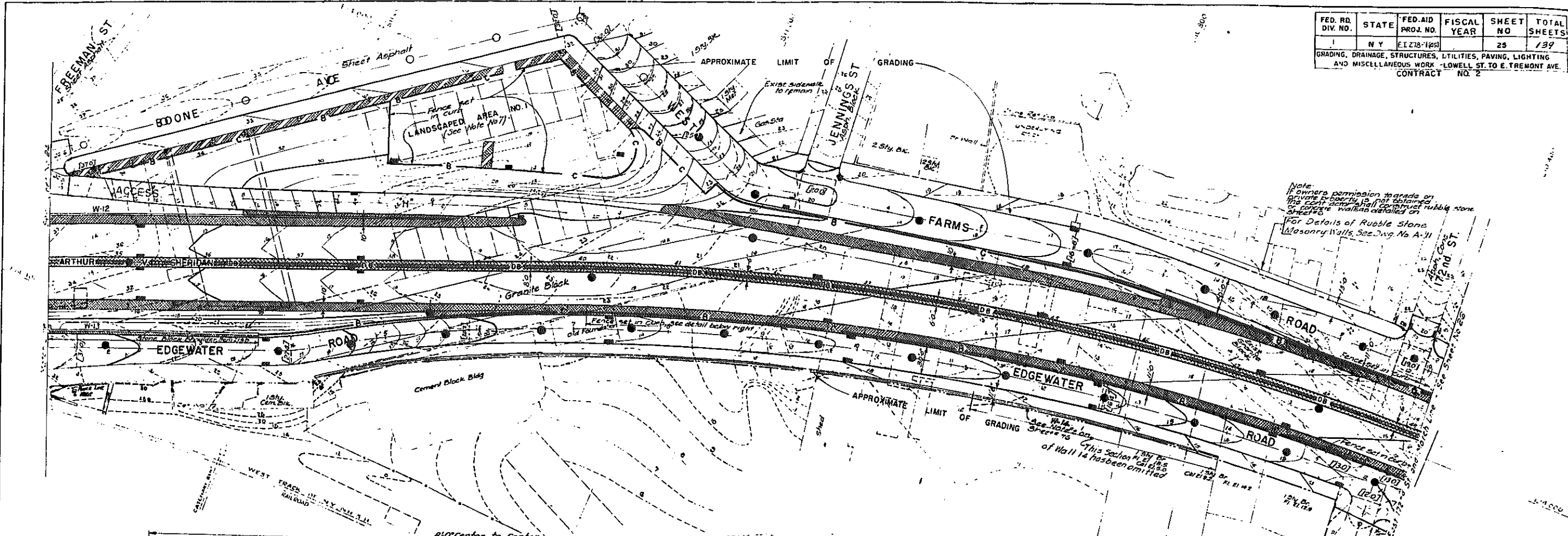
In Charge of VICTOR GEORGE & JEE
Made By AV
Traced By JA & AP
Checked By VIG & JEE



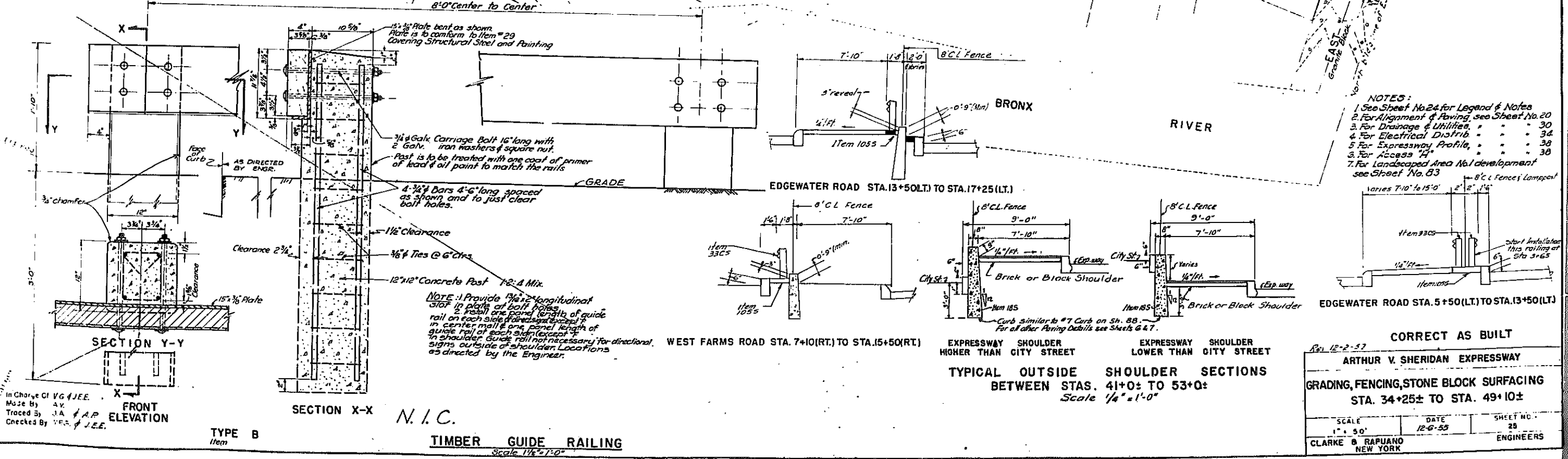
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N Y	E 1278-1(65)		25	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE. CONTRACT NO. 2



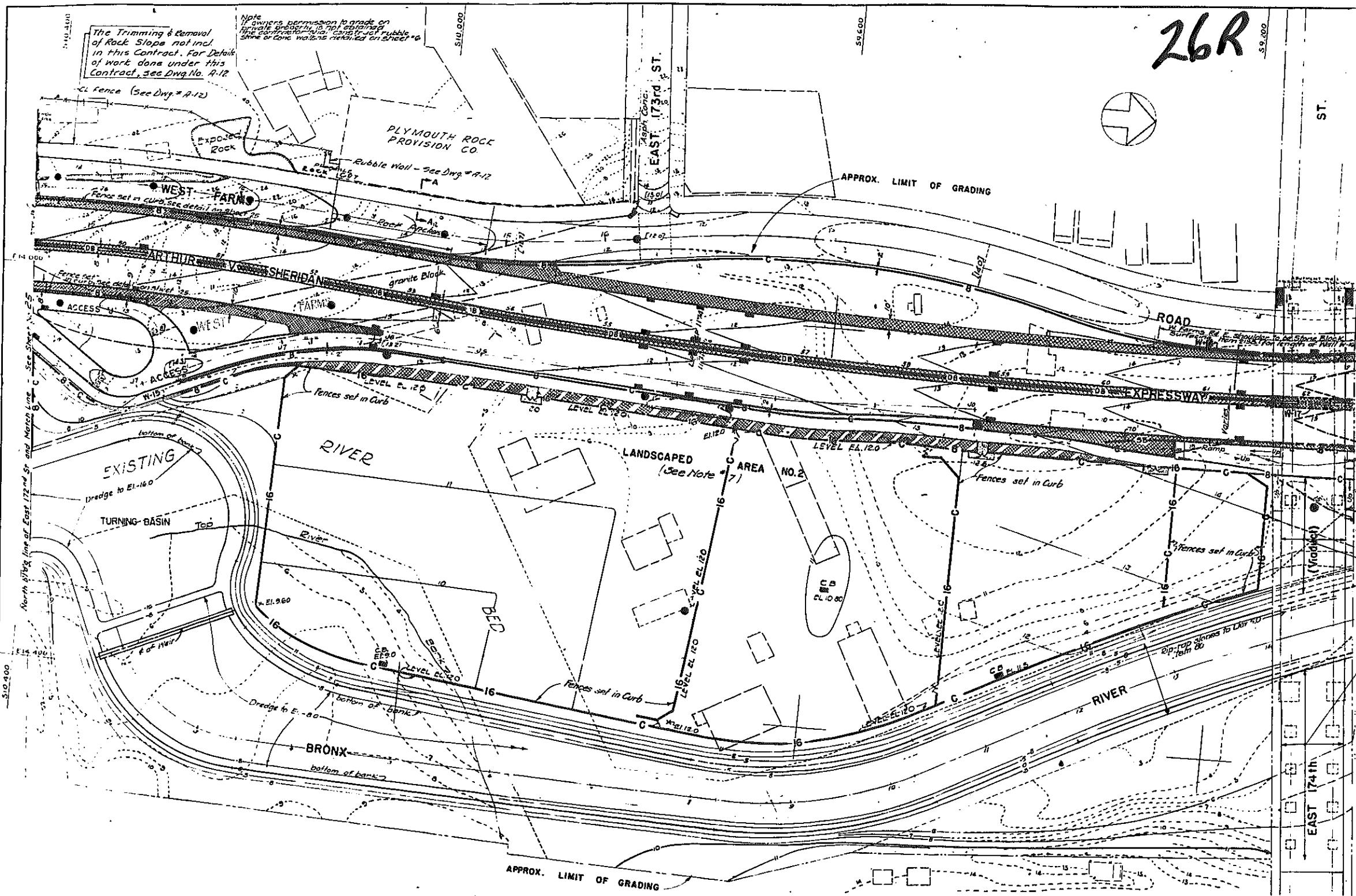
Note: If owners permission to grade on private property is not obtained the contractor shall construct rubble stone concrete walkways detailed on Sheet 6.
For Details of Rubble Stone Masonry Walls, See Dwg. No. A-11





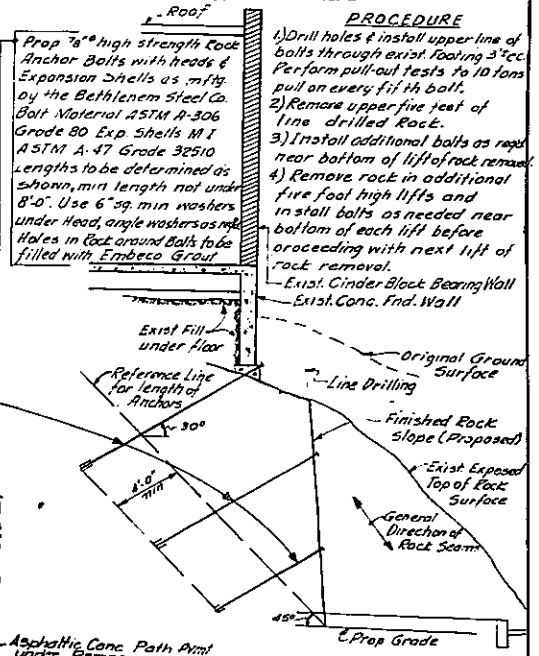
PHASE 60-1

26R



FED RD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-218-465		26	199

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



SECTION A-A
30' x 1'-5'

Areas under viaduct to be smoothly graded on slope to river then covered with 1" thickness of size #14 broken stone, item 93

NOTES

- See Legend & Notes on Sheet No. 24
- For Alignment & Paving see Sheet No. 21
- Drainage & Utilities - 3'
- Electrical Distribut. - 35'
- Expressway Profile - 38'
-
- Landscaped Area #2 development see Sheet No. 24
- Bronx River Relocation details, See Sheet No. 32
- details of double beam guide rail termination at center pier of E. 174th St viaduct see sheet 27.

Revised by Shumavon, Buckley & Goul - Nov. 27, 1961

Rev. 12-2-57 CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY		
GRADING, FENCING, STONE BLOCK SURFACING		
STA. 49+10± TO STA. 62+50±		
SCALE 1" = 50'	DATE 12-15-55	SHEET NO. 26
CLARKE & RAPUNO NEW YORK		ENGINEERS

In Charge Of VICTOR GEORGE & J.E.E.
Made By V.F.G.
Traced By A.N. CAR
Checked By V.F.G. & J.E.E.

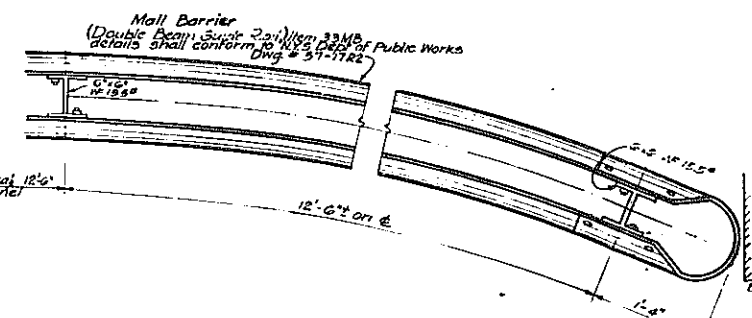
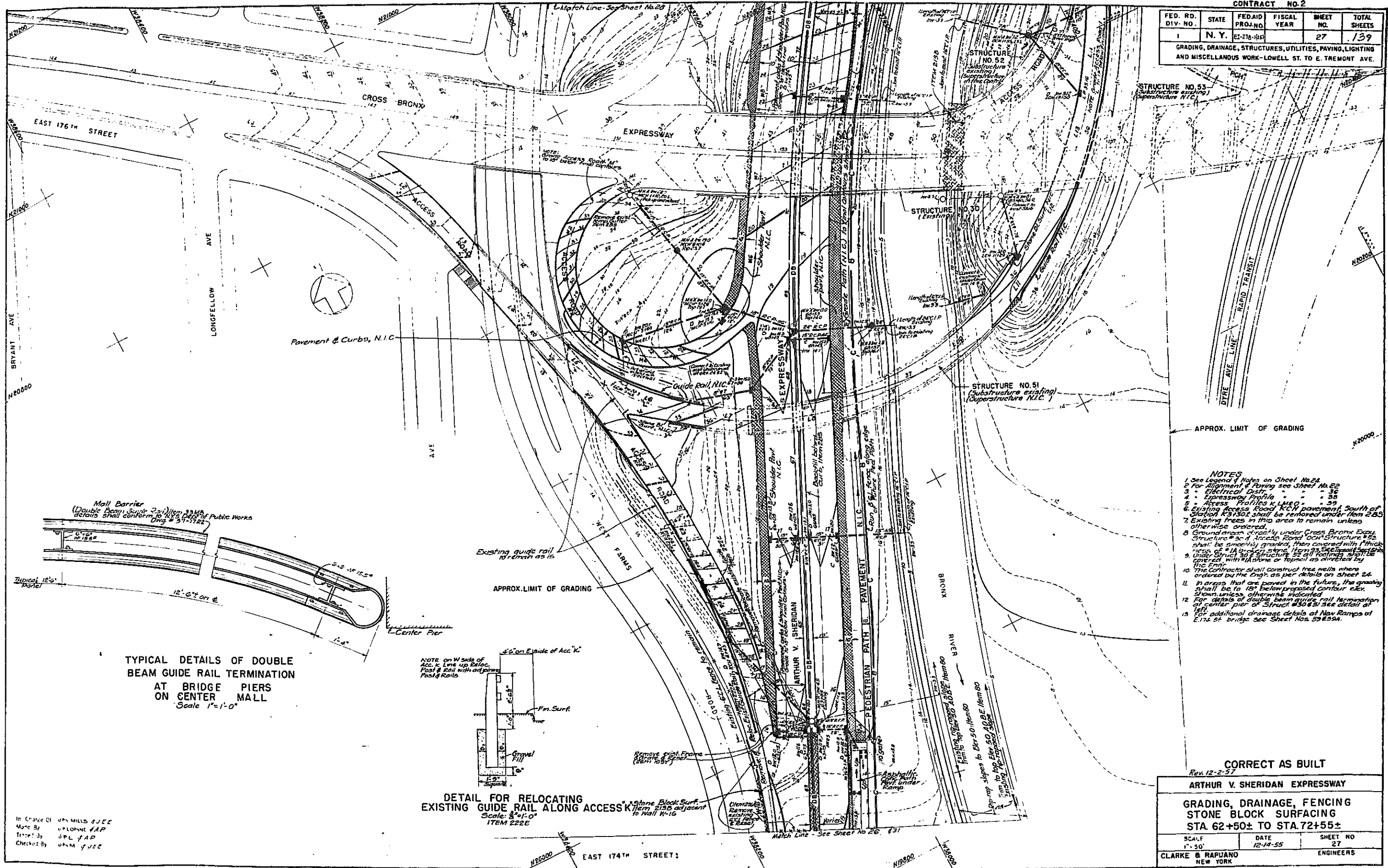


PHASE 60-1

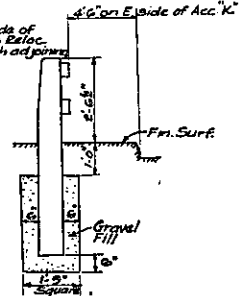
CONTRACT NO. 2

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EE-218-46P		27	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE.



TYPICAL DETAILS OF DOUBLE BEAM GUIDE RAIL TERMINATION AT BRIDGE PIERS ON CENTER MALL
Scale 1"=1'-0"



DETAIL FOR RELOCATING EXISTING GUIDE RAIL ALONG ACCESS K
Scale: 3/4"=1'-0"
ITEM 222E

- NOTES**
- 1 See Legend & Notes on Sheet No. 24
 - 2 For Alignment & Faring see Sheet No. 22
 - 3 - Electrical Distr. - - - - - 36
 - 4 - Expressway Profile - - - - - 38
 - 5 - Access Profiles & L.M.E.O. - - - - - 39
 - 6 Existing Access Road K.C.N. pavement, South of Station K31301 shall be removed under Item 2.85
 - 7 Existing trees in this area to remain unless otherwise ordered.
 - 8 Ground areas directly under Cross Bronx Expy. Structure # 30 & Access Road O.C.N. Structure # 52 shall be smoothly graded, then covered with 12" thick 1/4" A or better stone, Item 93. See Item 2.85.
 - 9 Under Structure # 50 & Structure # 51 all footings shall be covered with 12" stones or topsoil as directed by the Engr.
 - 10 The Contractor shall construct tree wells where ordered by the Engr. as per details on sheet 24.
 - 11 In areas that are paved in the future, the grading shall be to 18" below proposed contour elev. shown unless otherwise indicated.
 - 12 For details of double beam guide rail termination at center pier of Structure # 50 & 51 see detail at 1/17.
 - 13 For additional drainage details at Nav Ramps at E. 174 St bridge see Sheet Nos. 59 & 59A.

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
GRADING, DRAINAGE, FENCING
STONE BLOCK SURFACING
STA. 62+50± TO STA. 72+55±

SCALE	DATE	SHEET NO.
1"=50'	12-14-55	27

CLARKE & RAPUANO ENGINEERS
NEW YORK

In Charge Of: JPM MILLS C.J.E.E.
Made By: J. POLONE V.A.P.
Traced By: J.P.L. J.A.P.
Checked By: J.P.M. J.J.E.C.

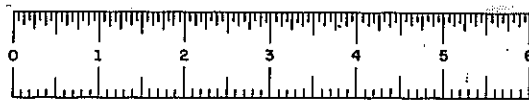
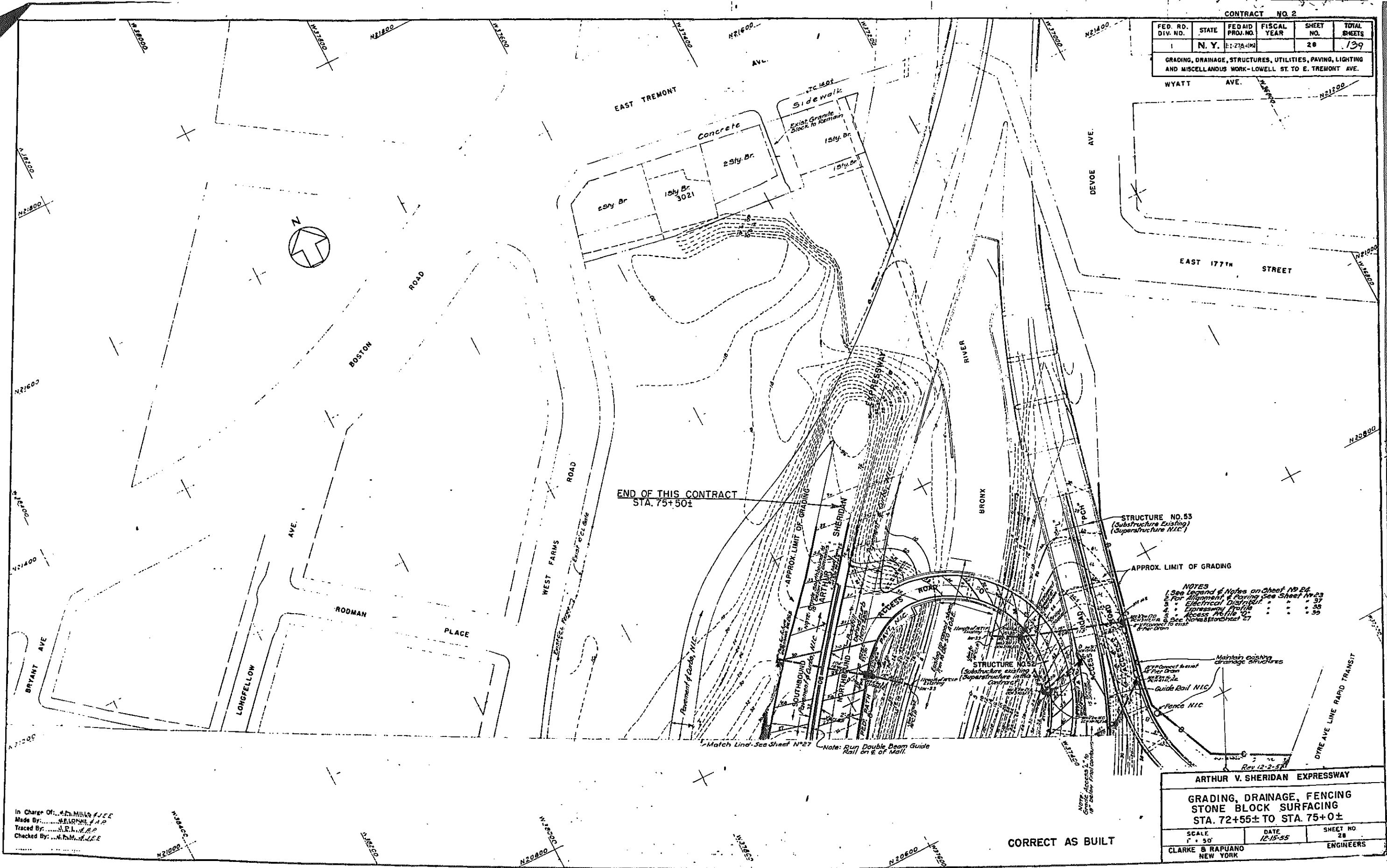


PLATE 60-1

CONTRACT NO. 2

FED. RD. DIV. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	E-27A-499		28	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.



- NOTES**
- 1. See Legend & Notes on sheet 19 B.
 - 2. For Alignment & Paving See Sheet 19 C.
 - 3. Electrical Diagrams 37
 - 4. Expressway Profile 38
 - 5. Access Profile 1' 39
 - 6. Access Profile 2' 39
 - 7. Connect to exist. 8' Per Drain

ARTHUR V. SHERIDAN EXPRESSWAY

**GRADING, DRAINAGE, FENCING
STONE BLOCK SURFACING
STA. 72+55± TO STA. 75+0±**

SCALE 1" = 50'	DATE 12-15-55	SHEET NO. 28
-------------------	------------------	-----------------

CLARKE & RAPUANO
NEW YORK ENGINEERS

In Charge Of: J. H. MILLS
 Made By: J. H. MILLS
 Traced By: J. H. MILLS
 Checked By: J. H. MILLS

CORRECT AS BUILT

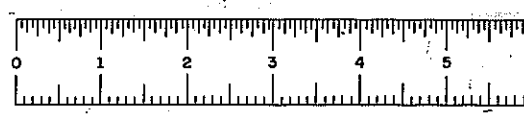
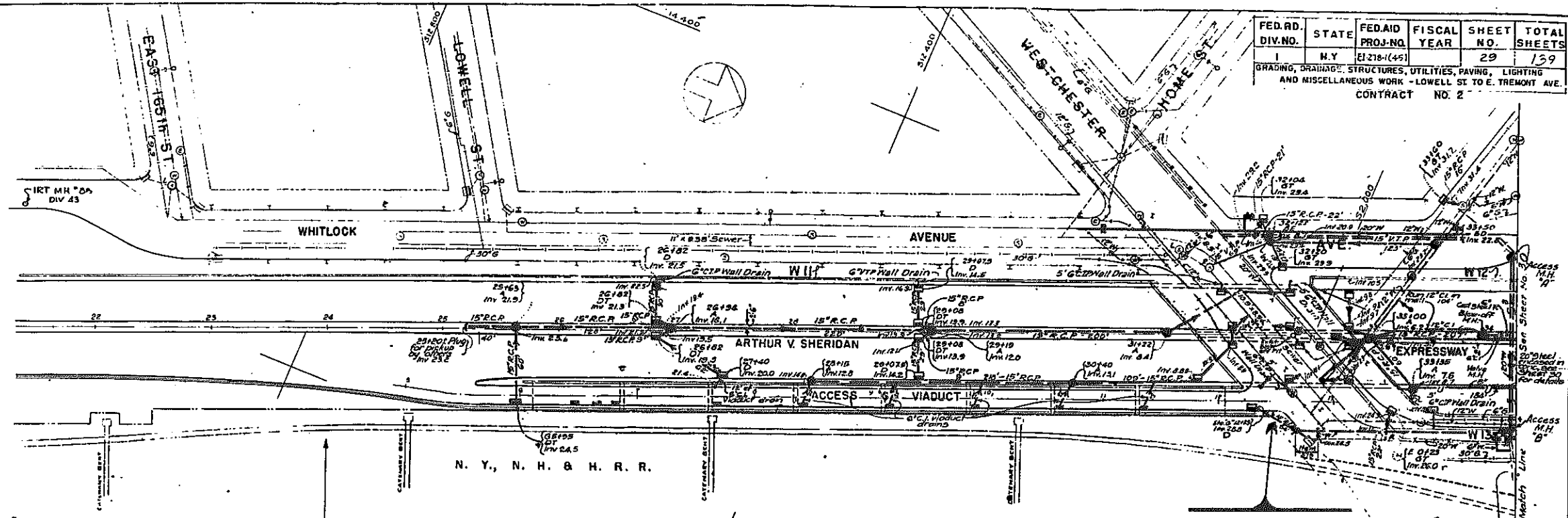


PLATE 60-1

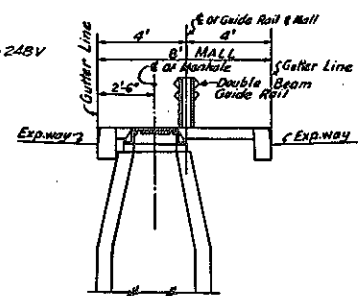
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EJ218-1(45)		29	159

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE. CONTRACT NO. 2

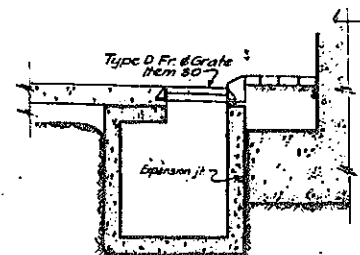


EXISTING	PROPOSED	LEGEND
	RCP	Drain line or sewer, size & direction of flow as shown
	VTP	Reinforced concrete pipe, Item 14
	CIP	Vitrified tile pipe, Item 9V
	U	Cast iron pipe, Item 15
	U	Underdrain pipe size & direction of flow as shown, Item 10S
	SM	Sewer manhole, type as shown, Item 102S
	DI	Drop inlet, Expressway type as shown, Item 102S
	DI	Drop inlet, City Street, type G, Item 102S
	DI	Drop inlet, Landscaped & other facilities areas, type as shown, Item 102S
	SR	Spurs for house connections
	SR	Existing manhole to be raised, Item 103
	SR	Existing manhole to be lowered, Item 103
	WM	6" Water Main, Item 373F-CIP
	WM	12" Water Main, Item 373J-CIP
	WM	20" Water Main, Item 373N-CIP
	WM	Water Main to be abandoned
	WM	Steel Water Main, Item 374
	WH	Water Hydrant, Item 378, 379. Hydrants in Landscaped area, Item 248V
	GV	Gate Valve, Item 375, 376
	CA	Cap
	RED	Reducer
	CON	Connection
	AB	Pipe or Structure to be abandoned or removed
	NI	Pipe or Structure not in this Contract
	GM	Gas Main
	ED	Electric Ducts (C.T. & E.S.)
	TD	Telephone Ducts (E.C.S.)
	DI	Location of Drop inlet or Manhole
	T	Trap provided over outlet
	IO	Invert of Outlet
	D	Type of Drop Inlet
	A.O.B.E.	As ordered by the Engineer
	VI	Viaduct occupier

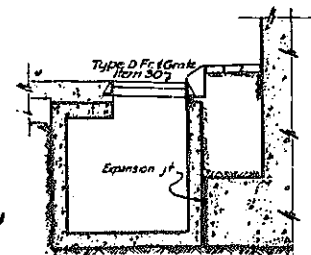
BEGINNING OF THIS CONTRACT STA. 24+0±



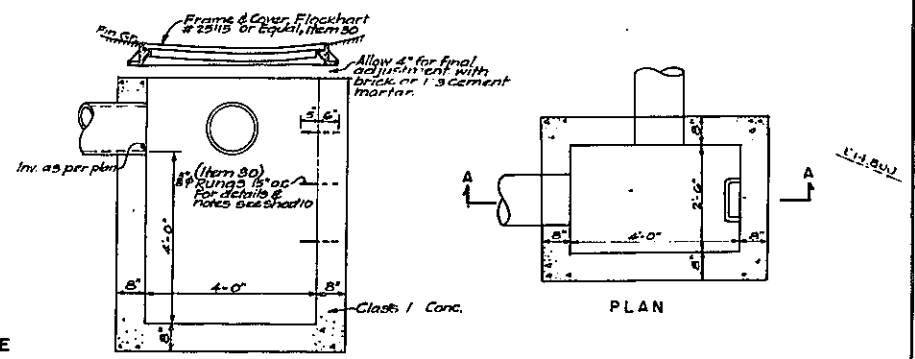
DETAIL OF MANHOLE LOCATION IN CENTER MALL SCALE: 1/4" = 1'-0"



DROP INLET TYPE 'F' UNDER WESTCHESTER AVE. BRIDGE SEE SHEET NO. 49 FOR DETAILS & ITEM NUMBERS SCALE: 1/4" = 1'-0"



DROP INLET TYPE 'H' UNDER WESTCHESTER AVE. BRIDGE SEE SHEET NO. 49 FOR DETAILS & ITEM NUMBERS SCALE: 1/4" = 1'-0"



SECTION A-A

PLAN

DROP INLET TYPE E-3 AT STA. 34+86.54± ITEM 102S

- NOTES**
- All elevations refer to Datum used by the Bureau of Highways & Sewers, Base of the Bronx which is 2608' above Mean Sea Level as established by the U.S. Coast & Geodetic Survey.
 - For detail layout of Utilities in Westchester Ave. Underpass Area, See Sheet No. 54.
 - Location of Water Mains shown on plans are diagrammatic only and final locations will be determined by the Engineer, subject to approval by the Dept. of Water Supply, Gas & Electric.
 - All sewer or drain lines to be abandoned or discontinued, shall be sealed or culminated as directed by the Eng.
 - For alignment, see Sheet No. 19.
 - Grading of Stone Block Surfacing see Sheet No. 26.
 - Electrical Ducts.
 - Shaded areas indicate pavement in this Contract.
 - Water lines shall be laid with a 4" minimum cover, except in Landscape Areas #1 & 2, where cover shall be 12" min.
 - For Profile of 20" water line to be relocated around Westchester Ave. bridge, See Sheet No. 30.

In Charge Of: E. Forman & J.E.E.
 Made By: E. Sanborn
 Traced By: G.R. Farina & A.P.
 Checked By: E.R. & E.S. J.E.E.

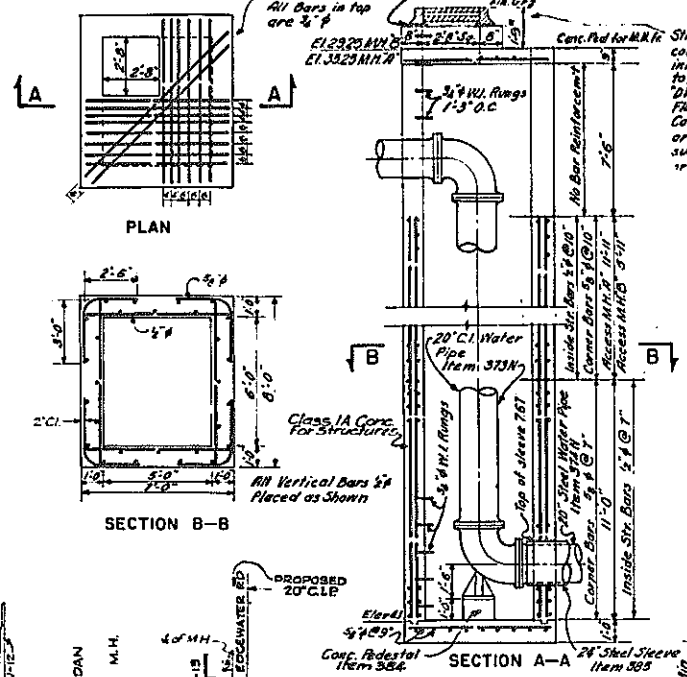
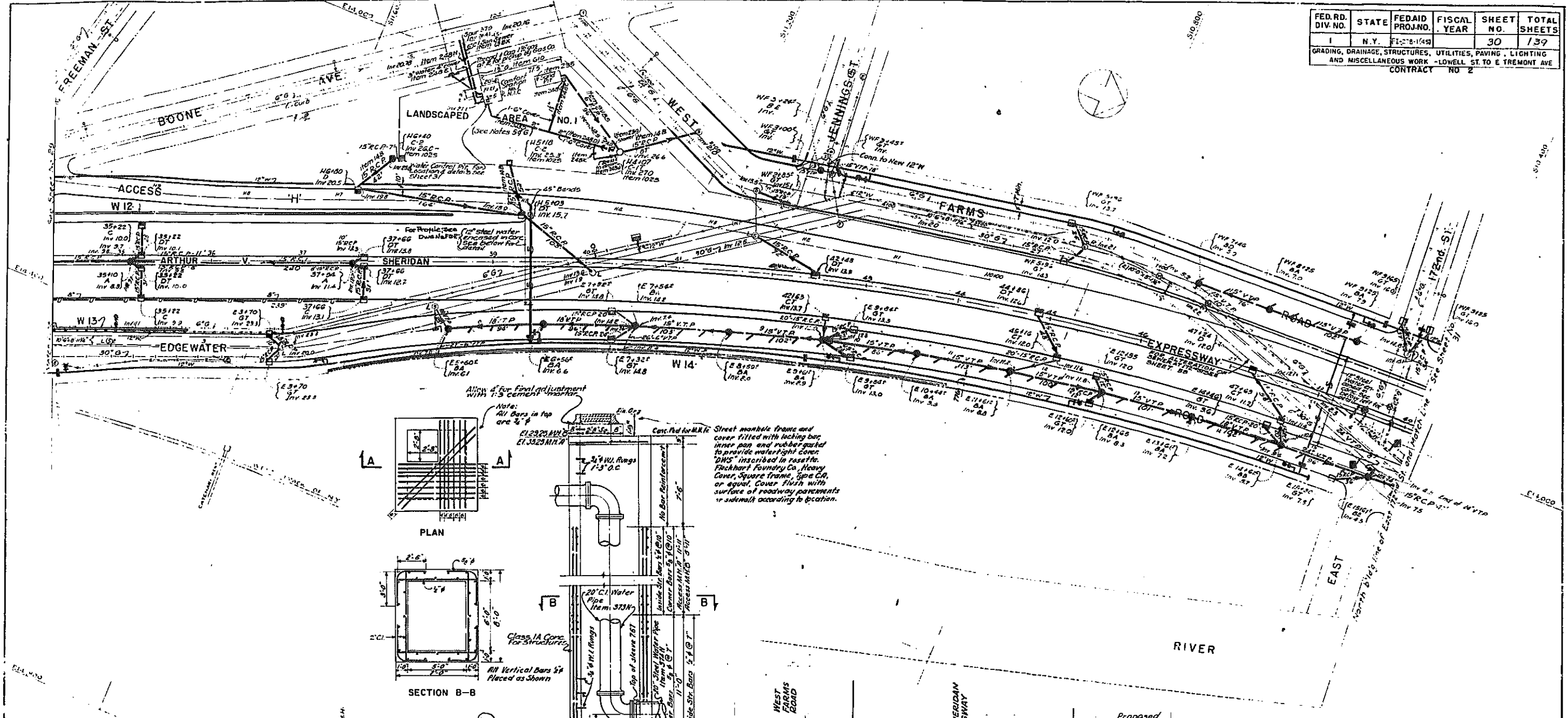
Rev. 12-2-57		
CORRECT AS BUILT		
ARTHUR V. SHERIDAN EXPRESSWAY		
DRAINAGE & UTILITIES PLAN		
STA. 25+0± TO STA. 34+25±		
SCALE	DATE	SHEET NO.
1" = 50'	12-23-55	29
CLARKE & RAPUANO		ENGINEERS
NEW YORK		



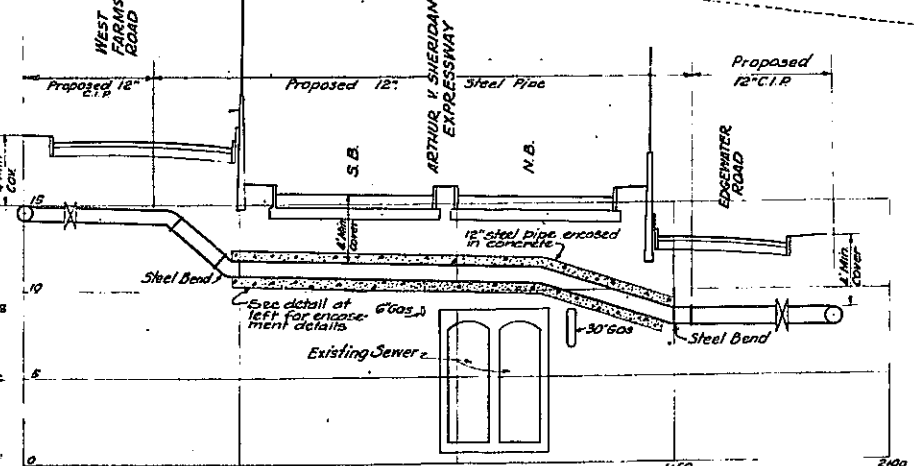
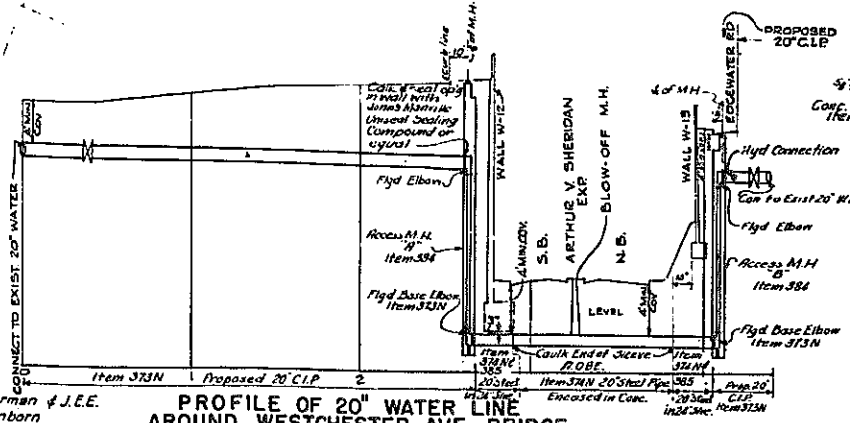
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	F1-28-149		30	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E TREMONT AVE
CONTRACT NO 2



Street manhole frame and cover filled with locking top inner pan and rubber gasket to provide watertight cover. "DWS" inscribed in reset. Fackhart Foundry Co., Heavy Cover, Square Frame, Type CA, or equal. Cover flush with surface of roadway pavements or subsoil according to location.



- NOTES**
- For Legend & Notes, see Sheet No 29
 - Alignment, 20
 - Grading, 20
 - Electrical Distr. 34
 - Landscaped Area No. 1 Development, See sheet No 83
 - Comfort Sta. #1 is N.Y.C. Utilities shall be installed up to 5' from building and placed at capped A.O.B.E.
 - Pitch water lines in Landscaped Area #1 as indicated by arrows, without pockets, to drainage points.

D.W.S.E. Metered into Non 720-G Elec. 727-G Plumb.

Rev 12-2-57 **CORRECT AS BUILT**

ARTHUR V. SHERIDAN EXPRESSWAY

DRAINAGE & UTILITIES PLAN
STA 34+25± TO STA. 49+10±

SCALE	DATE	SHEET NO
1" = 80'	12-27-55	30

CLARKE B. RAPUANO
NEW YORK ENGINEERS

In Charge Of: E. Forman & J.E.E.
Made By: E. Sanborn
Traced By: G.F. Fariss & A.P.
Checked By: E.R. & E.S. & J.E.E.

For Revised Profile, see Dwg. #FD-1

For Revised Profile, see Dwg. #FD-3

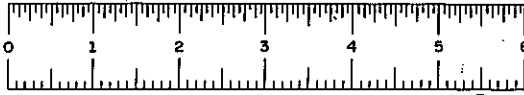
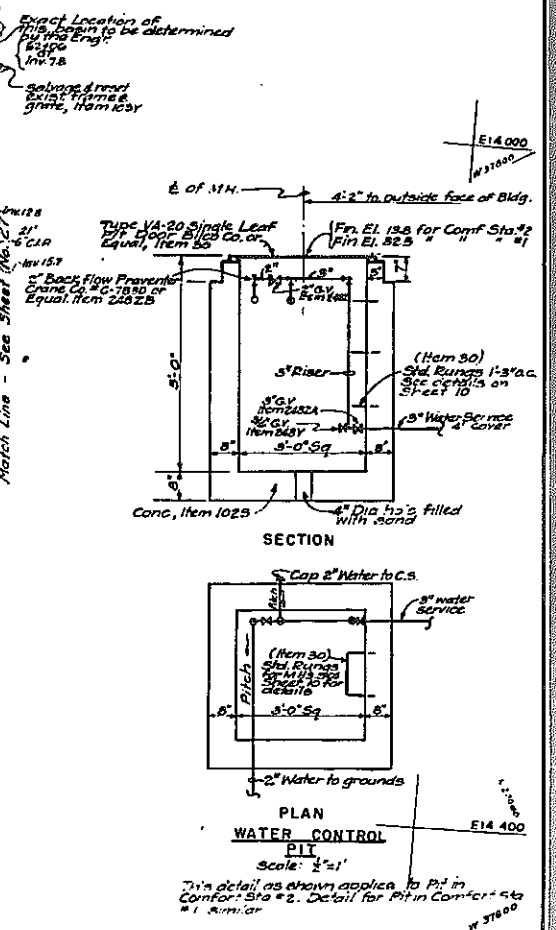
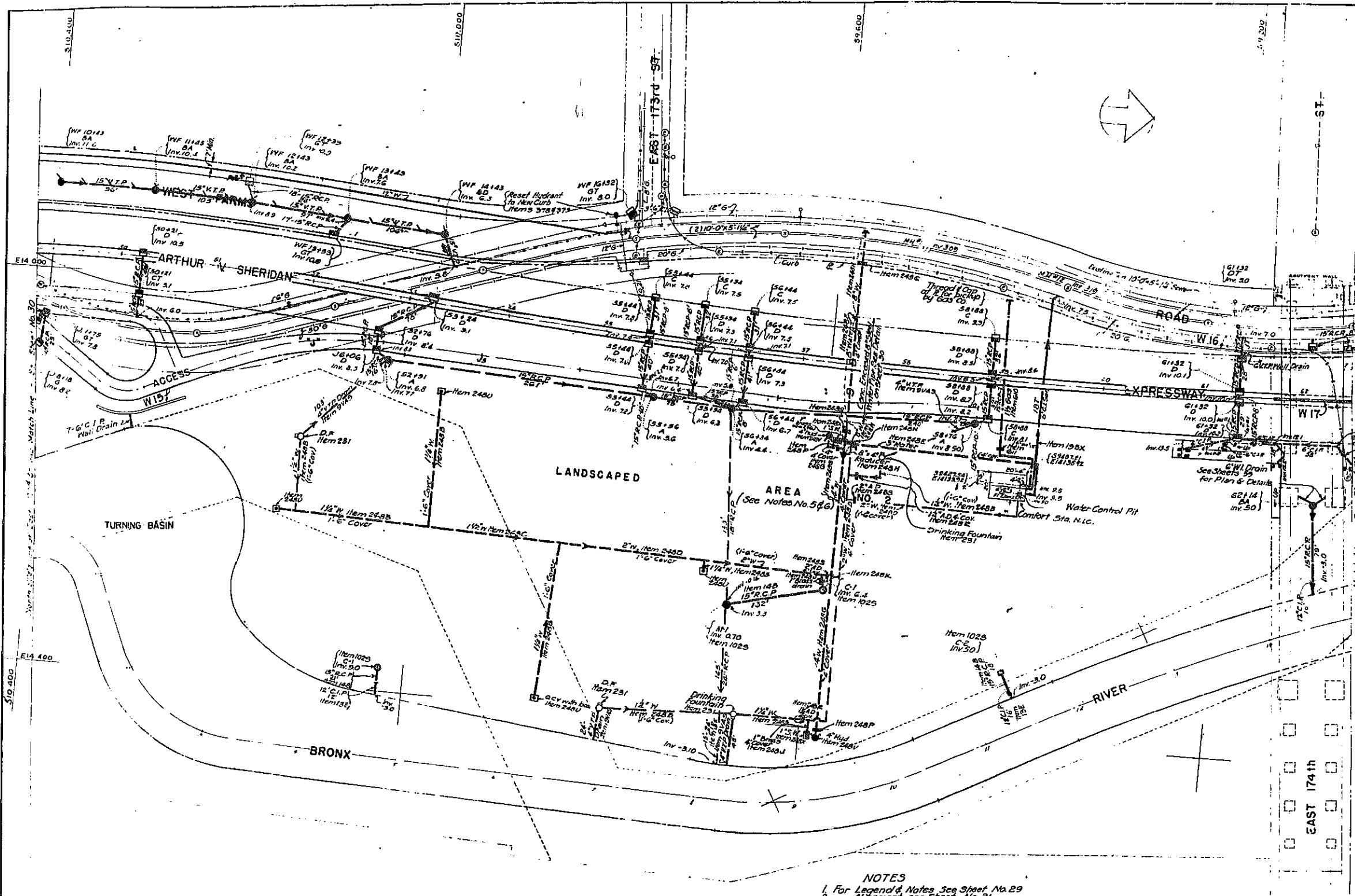


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL216(45)		31	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



- NOTES**
- For Legend & Notes See Sheet No. 29
 - Alignment see Sheet No. 21
 - Grading " " " 26
 - Electrical " " " 35
 - Landscaped Area No. 2 development See Sheet No. 84
 - Comfort Sta. #2 is N.Y.C. Utilities shall be installed up to 5' from building and plugged or capped A.B.E.
 - Pit in water lines in Landscaped Area #2 as indicated by arrows, without pockets, to drainage points.
 - For additional drainage details of New Ramps at E 174th Bridge see Sheet Nos. 59 & 59A.

In Charge Of **E. Forman J.E.E.**
 Made By **E. Sarborn**
 Traced By **G.F. Farías J.A.P.**
 Checked By **E.F. & S.J.E.E.**

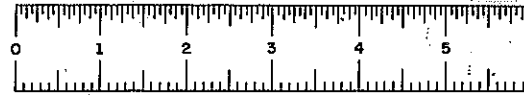
CORRECT AS BUILT
 Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

DRAINAGE & UTILITIES PLAN
 STA. 49+10± TO STA. 62+50±

SCALE 1" = 50'	DATE 1-3-56	SHEET NO. 31
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CLARKE B. RAPUANO
NEW YORK ENGINEERS



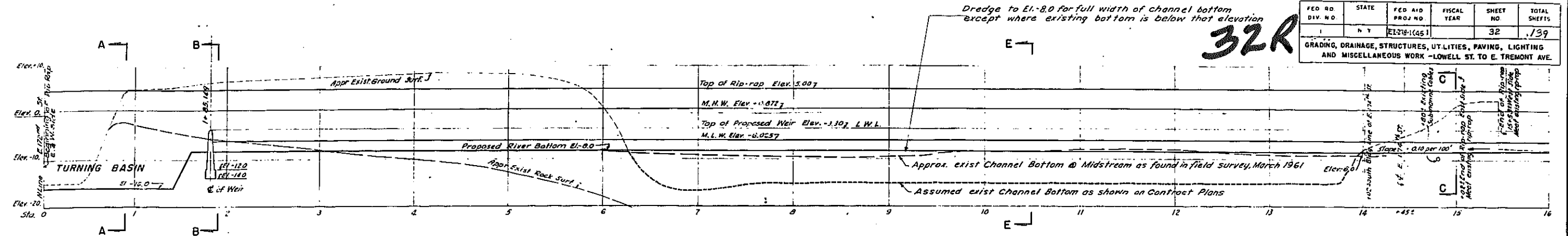
PHASE 60-1

CONTRACT NO. 2

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL278-1(45)		32	139

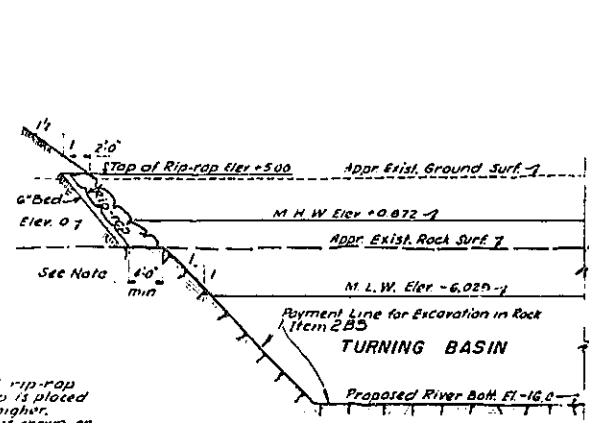
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.

32R

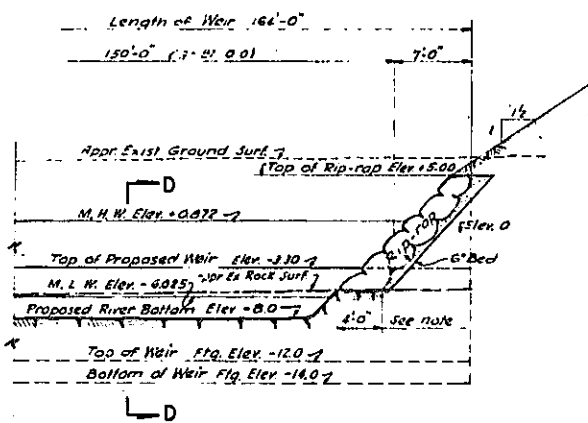


STATION LINE PROFILE OF RELOCATED BRONX RIVER

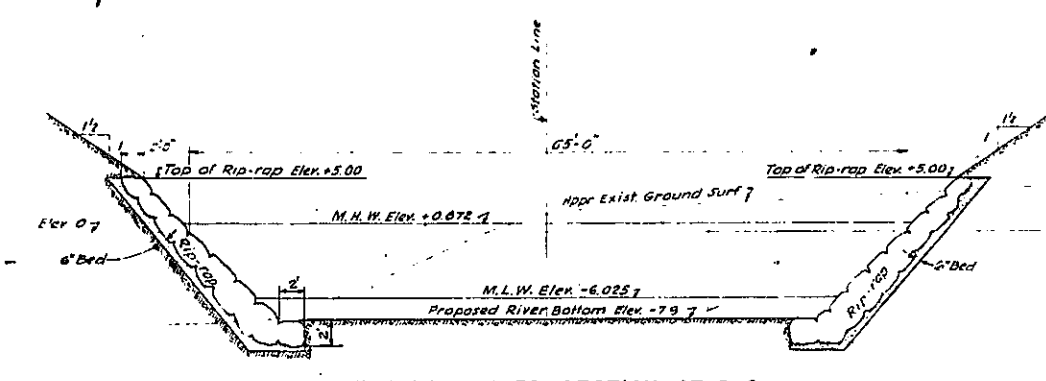
Scale: Horiz. 1"=50'-0"
Vert. 1"=10'-0"



SECTION A-A
Scale: 1/2"=1'-0"



SECTION B-B
Scale: 1/2"=1'-0"



TYPICAL RIVER SECTION AT C-C
Scale: 1/2"=1'-0"

Note:
The bottom thickness of rip-rap shall be 4" when rip-rap is placed on rock at El. +5.66 or higher. Slope of back of rip-rap as shown on Sect. F-F shall maintain when rock is found below El. +5.66

NOTES:
All elevations refer to datum used by the Bureau of Highway & Sewers, Borough of the Bronx, which is 2.660 ft. above mean sea level of Sandy Hook as established by the U.S. Coast & Geodetic Survey.

REFERENCES:
Alignment & Paving Plan Sheet No. 21
Grading Plan Sheet No. 22
Drainage Plan Sheet No. 31
Landscape Area No. 2 Sheet No. 24

Revised by Shumov, Buckley & Goul-Nov. 27, 1961

Rev. 12-2-57

CORRECT AS BUILT

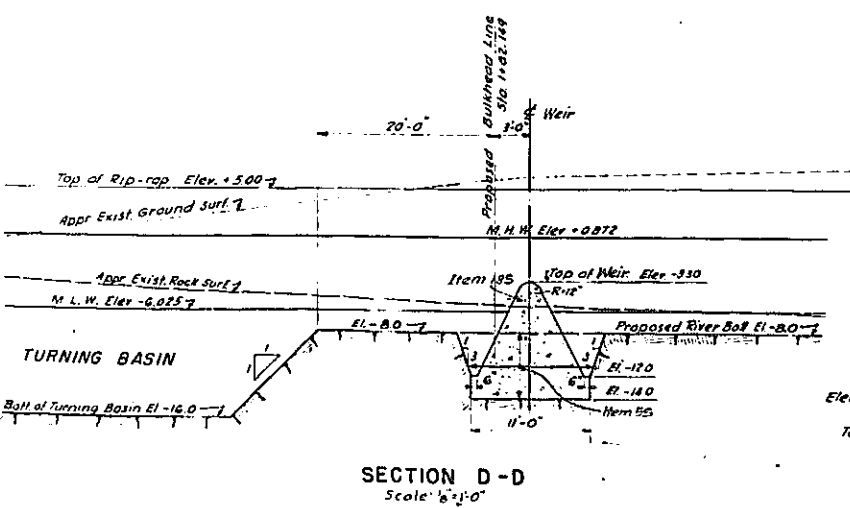
ARTHUR V. SHERIDAN EXPRESSWAY

RELOCATED BRONX RIVER DETAILS
E. 172nd. TO E. 174th ST.

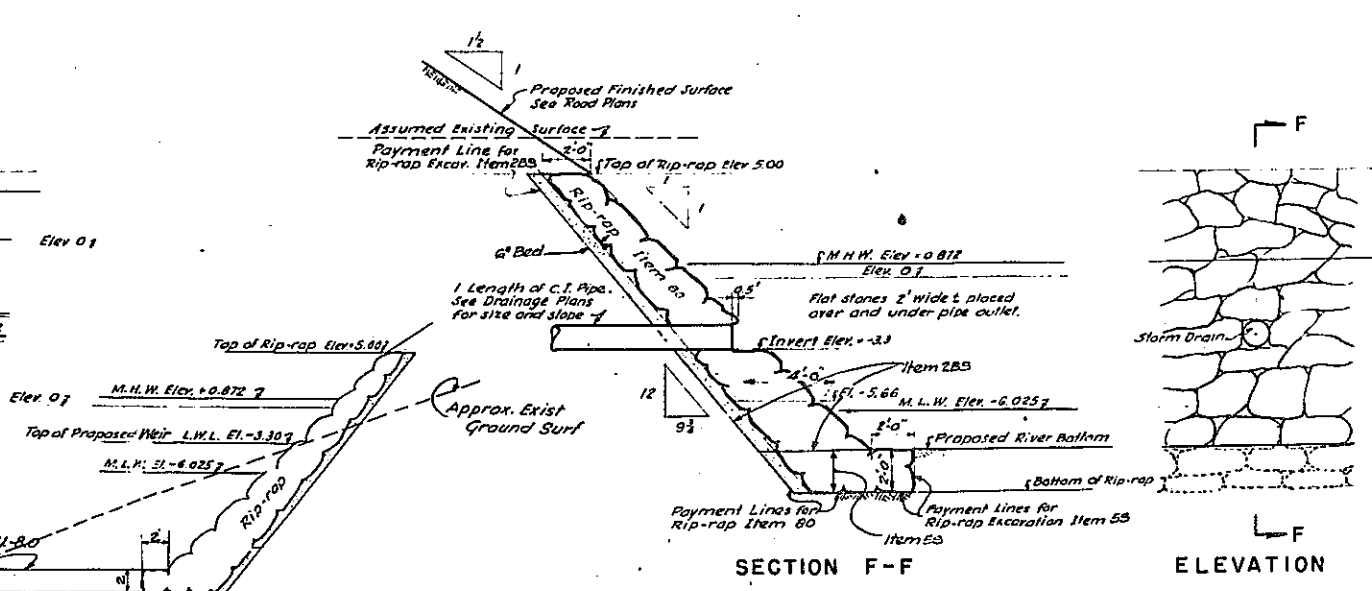
DWG. P.D.	SCALE AS SHOWN	DATE 12-28-55	SHEET NO. 32
CLARKE B. RAPUANO			ENGINEERS
NEW YORK, N. Y.			

In charge of H. Schwartz & J.E.E.
Made by L. Sos
Traced by L. Sos
Checked by M. Barron & J.E.E.

151-2

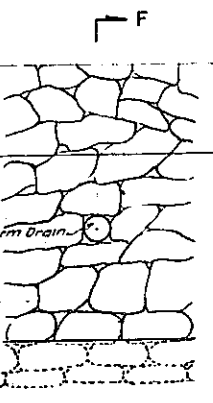


SECTION D-D
Scale: 1/2"=1'-0"



SECTION E-E
Scale: 1/2"=1'-0"

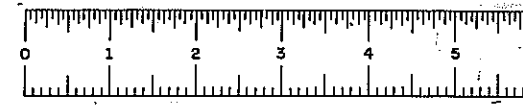
TYPICAL DETAILS OF RIP-RAPPED RIVER BANK AND DRAIN OUTLET
Scale: 1/2"=1'-0"



ELEVATION

Exist River Bottom or El. -8.0
Whichever is lower

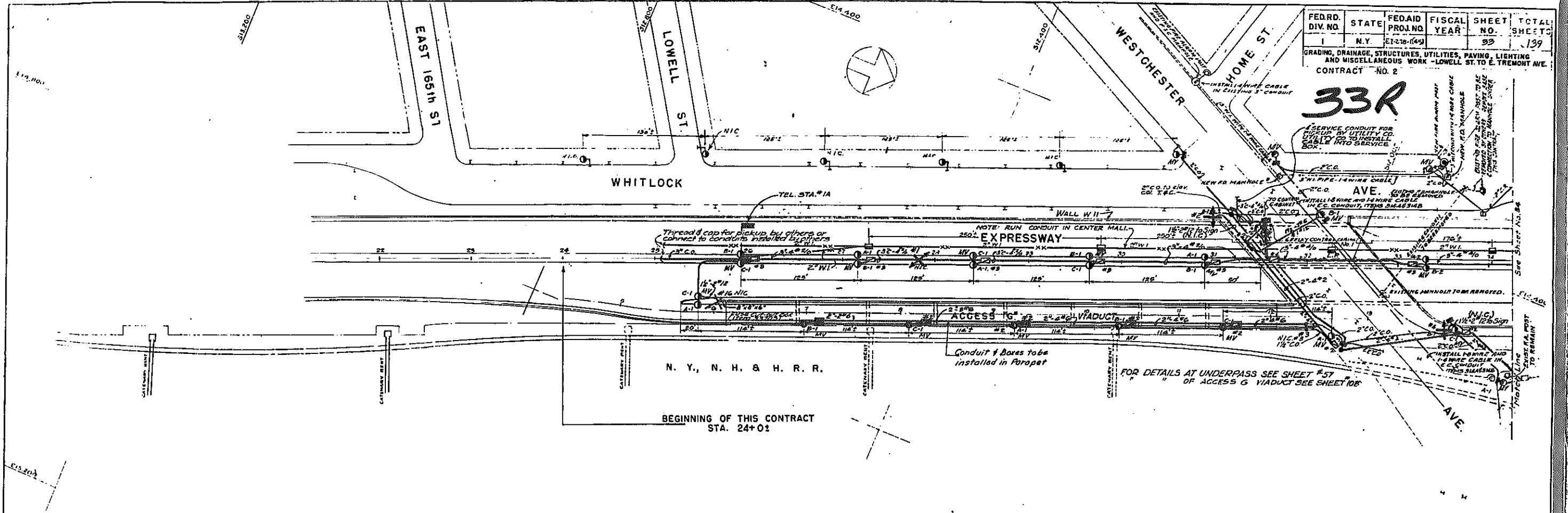
Bottom of Rip-Rap toe
2' below Exist. River
Bottom or at El. -10,
Whichever is lower



FED. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E1-278-(149)		93	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

33R



LEGEND

- A-1 Type 85-AL Lamppost, Item 326 BM Twin Arm
A-1 85-AL Lamppost with structure, Item 326, Letter indicates phase (Mer. Vapor Lamp), Number indicates circuit
- 3-4 Conduit & Cable, Figures indicate size of conduit, number of cables and size of wire, Item 342 & 344
- c.o. Conduit only
- N.I.C. Sidewalk Type Conc. Sec. Box, Number indicates type, Item 335
- Marker Type Service Box, N.I.C.
- Cast Iron Service Box, Item 336B
- Police Telephone Service Box, Item 303A
- 741 Bracket & Sign on Light Pole, Items 308A & 304, For details of Sign & Bracket see applicable Plans, Comm. Div. Eng. No. 3 as listed on Sheet 93
- Directional Sign, with Identification No., N.I.C.
- Police Telephone Conduit, Item 306
- Fire Dept. Manhole, Item 315
 Corrdult, Item 313
 Conc. Found for Traffic Light Std. Type S-1, Item 401A
 Traffic Light mounted on lamppost, by others
 Traffic Dept. Conduit, Item 402E
- T.S.C. Thread & Cap
- Cast Iron Service Box mounted in Parapet
- Shading indicates pavement in this contract
- Install # 3438-2 Luminaires on existing outlet box, Item 328B
- 2800 Luminaires existing
- Service box existing
- Conduit & Cables existing except as noted
- Dead End Warning Unit
- Warning Light, Item 390A
- Warning Light, Existing
- AV Noted at lamppost indicates one Mercury type luminaire for single arm lamppost and two Mercury type luminaires for twin arm lamppost, Item 326 BM, 326 C, 326 D Single Luminaire, Item 326 BM, Twin Luminaires
- Conc. Found for Traffic Light Std. Type M-P

NOTES

1. All Metal Boxes, C.I. Frames & Covers for concrete boxes, & metal parts of manholes shall be given two coats of an approved asphalt paint before installation.
2. Conduit run from service box to single arm lamppost shall be 1 1/2" with 2#6 cables to twin arm lampposts 1 1/2" with 3#6 cables (Unless otherwise noted)
3. Where cables terminate in box without going through for connection to lamppost or any other electrical equipment, they shall be tied & capped in box with 24" of slack.
4. Where conduits pass through expansion joints, the contractor shall furnish & install O.Z. Electrical Co. Type AX expansion joint filling or equal.
5. All nipples shall be 2" O.D. & shall be threaded & capped, unless otherwise noted.
6. The Contractor shall furnish & install identification tags for lampposts, underbridge lights & lighting fixtures, see D.W.S.G. & E. Div. D-286. Numbering will be furnished by the D.W.S.G. & E.
7. All secondary distribution cable shall be rubber insulated, neoprene covered & shall conform to D.W.S.G. & E. Specs for rubber insulated, neoprene covered cable for submarine service, Table B.
8. Conduit entrance in metallic boxes shall be equipped with lock nuts & approved bonding bushings.
9. All conduits terminating underground for future extension shall be threaded & capped.
10. For Lamppost installation details, see sheets 15, 16 & 14, 15.
11. Contractor shall install expansion joint fillings or flexible bronze hose at all expansion joints as per D.W.S.G. & E. General Specs, Sheet No. 5.
12. Electric conduit laid in earth will be paid for as "Black Steel Conduit" unless otherwise noted.
13. Electric conduit to be encased in concrete shall be "Hot Dipped Galv. Steel" unless otherwise noted.
14. All Cables shall be supplied with tags showing phase designations.
15. This is D.W.S.G. & E. Job # 36-48.
16. The Contractor shall furnish, install & completely wire all lampposts. All lampposts shall be manufactured in accordance with the latest Divs. & Specs on file with the D.W.S.G. & E. All globes for the 3438-2 Luminaires shall be the Asymmetric Type for Expressway, Access Roads and Public Streets; Symmetric Type Globes for Under Bridge Lights.
17. All conduits shall clear tree pits.
18. Minimum spacing between lampposts and trees shall be 25'-0".
19. In certain areas there may be "lock" conditions underground & above surface. No extra compensation will be given when installing Manholes, Lampposts, conduits, boxes, etc., in these areas, & all equipment shall be installed in accordance with standard dimensions.
20. All conduits in all boxes & lampposts shall be bonded as per detail dwgs. & specs on file with the D.W.S.G. & E.
21. The Contractor shall furnish shop dwgs. of all Electrical Equipment to be installed such as Lampposts, Luminaires, Manholes, Service boxes, outlet & cutout boxes, castings, straps, supports, control cabinets, etc., to be submitted for approval to the D.W.S.G. & E. before the order is issued for the manufacture of these items.
22. All existing pavements, sidewalks, etc. disturbed when installing electrical equipment shall be restored to its original condition. The new work shall be similar in type, dimensions, construction & materials to the type being replaced.
23. Neutral cable not to be grounded except in control cabinets. This note applies to neoprene only.
24. All conduit crossings shall be at right angles to roadway.
25. " " shall enter narrow side of boxes.
26. All lampposts to have the 3438-2 Luminaires unless otherwise noted.
27. All conduit crossings shall be installed in accordance with D.W.S.G. & E. Div. No. D-3199 & as shown on Sheet No. 17.
28. Extreme care shall be taken that during new construction the existing duct lines & other electrical equipment shall not be disturbed. Any Electrical Equipment damaged or disturbed by him to its original condition at no additional cost to the State.
29. Distance between curb & center line of type 85-AL & 85-AL Lampposts to be 4'-0" unless otherwise noted.
30. Lampposts & Electrical Facilities installed in center mall shall be installed on the center line of mall.
31. Minimum distance between lamppost & service box to be 5'-0" unless otherwise noted.
32. All electrical installation shall be done in strict accordance & requirements of the specs on file with the Dept. of Water Supply Gas & Electricity, entitled "General specifications for Installation of a Public Lighting System."
33. All conduit for Police Telephone & Traffic Light Facilities shall be laid a minimum 2'-6" below grade and slope evenly to 3'-0" below grade at entrance into pull boxes unless otherwise shown.
34. All conduit for Fire Alarm system shall be installed 2'-0" below grade and shall slope evenly to 2'-6" below grade at entrance into manhole.
35. Any pockets in lines must be avoided & easy drainage provided for all condensation into nearest pull boxes or manholes.
36. All conduit for Police Telephone System & Traffic Light Facilities shall be "Hot Dipped Galv. Genuine Wrought Iron."
37. Existing lampposts, traffic lights & fire alarm boxes to be removed will be removed by others unless otherwise shown on plans.
38. Pull boxes in center mall shall be installed in such locations that they are accessible.
39. All Playground Elec. conduit shall be "Hot Dipped Galv. Steel" Reu. 12-6-62 Traffic Signal Facilities by Shumvon, Buckley & Goul

In Charge Of SEARS & KOPF & J.E.E.
Made By S.A.H.
Traced By T.L.M. & J.W.
Checked By S.R. & J.E.E.

Revised by Shumvon, Buckley & Goul
Sept. 26, 1961

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY		
ELECTRICAL DISTRIBUTION PLAN		
STA. 25+0± TO STA. 34+25±		
SCALE 1"=50'	DATE 12-30-55	SHEET NO. 93
CLARKE & RAPUANO NEW YORK		ENGINEERS

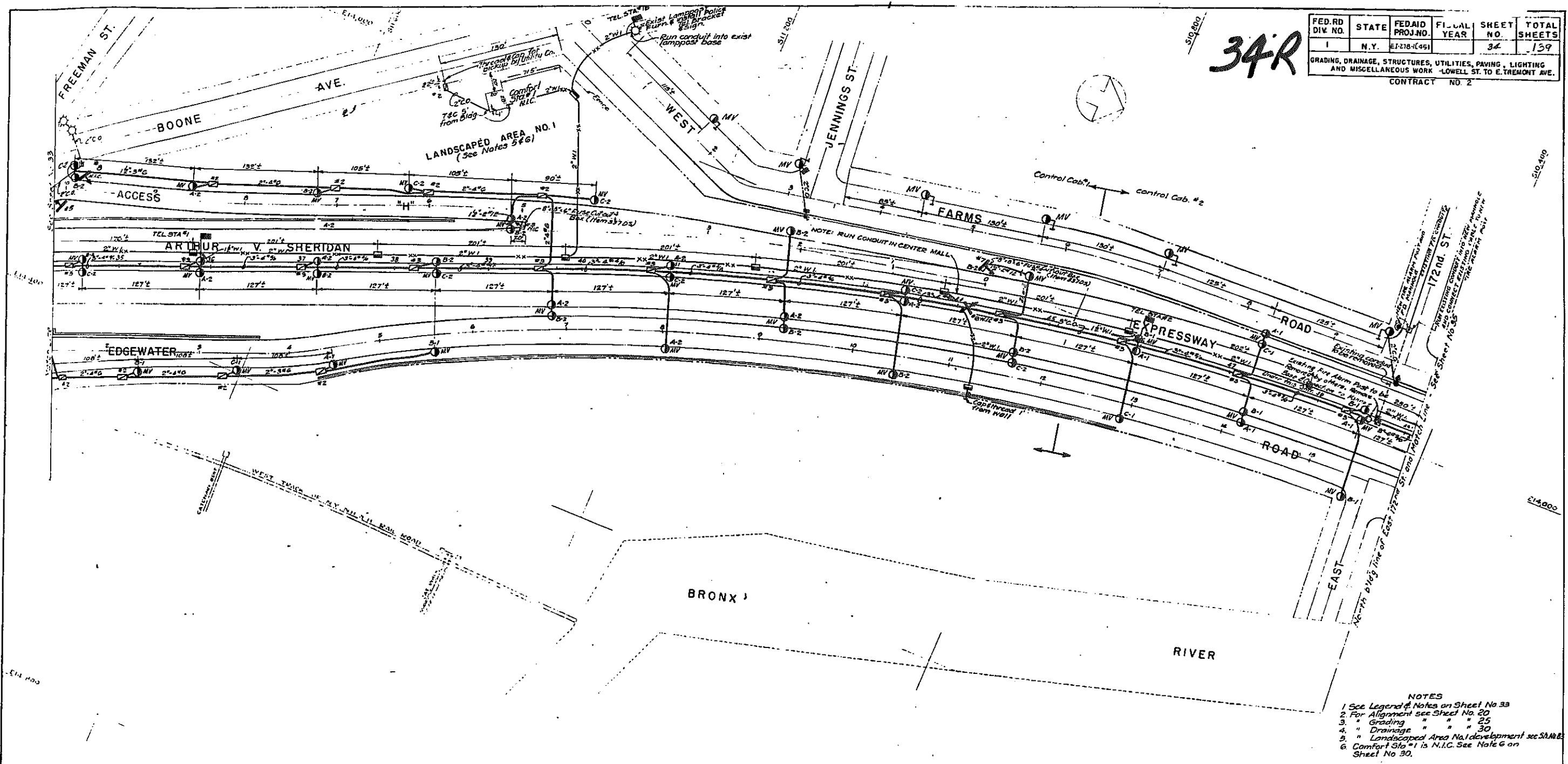


PHASE 60-1

34R

FED. RD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-218-1(45)		34	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



- NOTES**
- 1 See Legend & Notes on Sheet No. 33
 - 2 For Alignment see Sheet No. 20
 - 3 " Grading " " " 25
 - 4 " Drainage " " " 30
 - 5 " Landscaped Area No. 1 development see S.M.A. 28
 - 6 Comfort Site #1 is N.I.C. See Note 6 on Sheet No. 30.

In Charge Of SEARS & ROEPF & J.E.E.
Made By G.L.H.
Traced By T.L.B. & J.W.
Checked By S.S. & J.E.E.

Revised by Shumavon, Buckley & Goul
Sept. 26, 1961

CORRECT AS BUILT

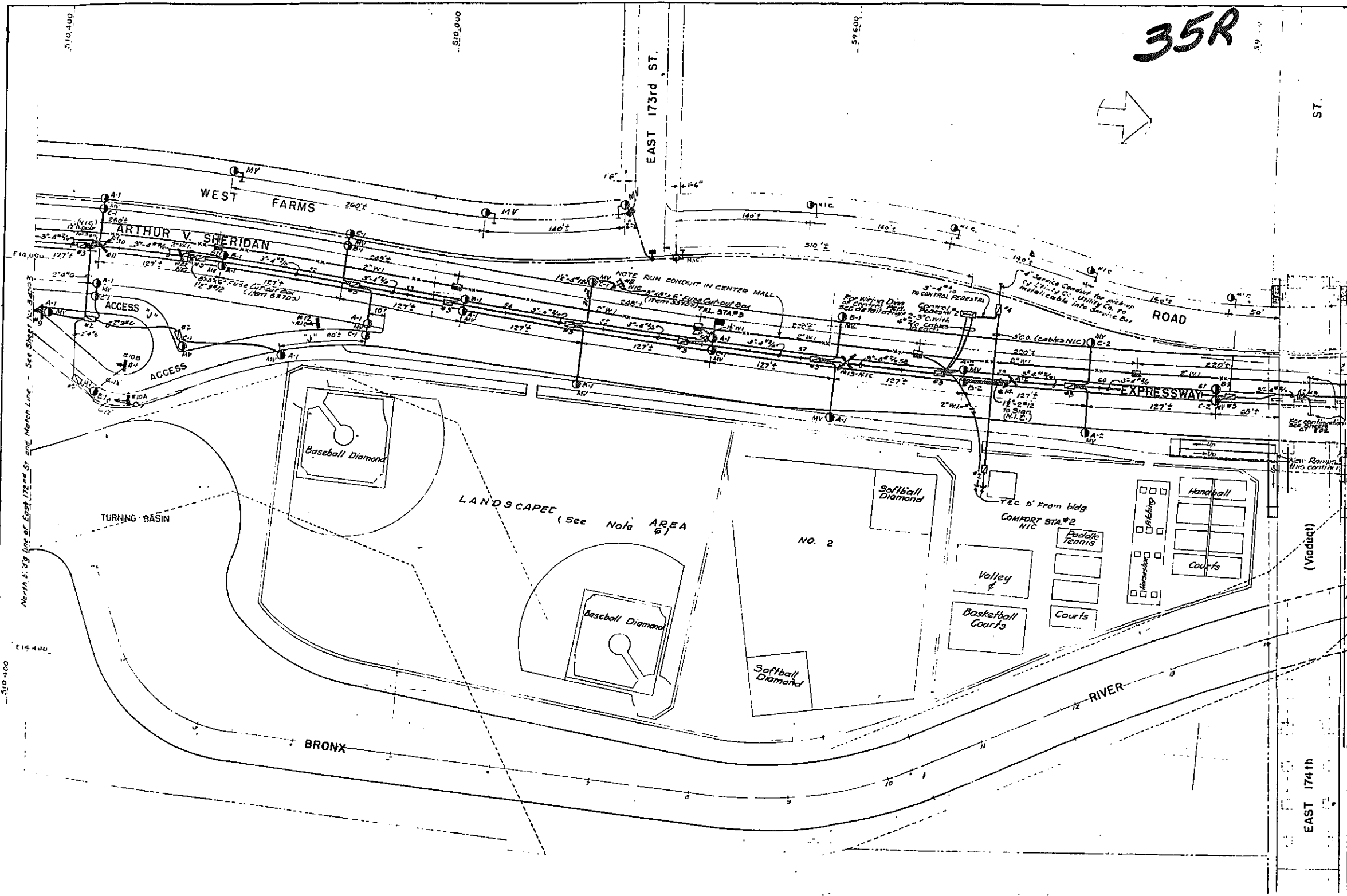
Revised 12-6-62 by Shumavon, Buckley & Goul
Traffic Signal Facilities
Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY		
ELECTRICAL DISTRIBUTION PLAN		
STA. 34+25± TO STA. 49+10±		
SCALE 1" = 50'	DATE 1-11-56	SHEET NO. 34
CLARKE, S. RAPUANO NEW YORK		ENGINEER



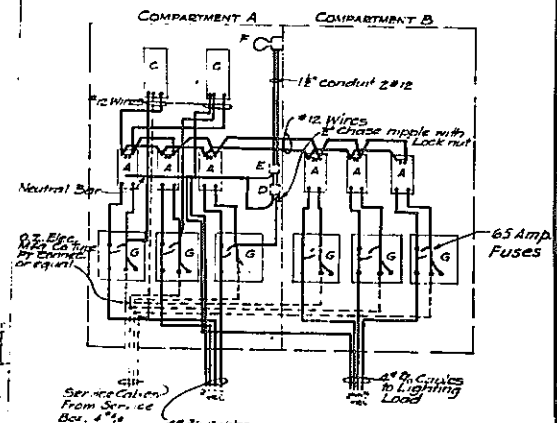
PLATE 60-1

35R



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EJ-218-1(65)		35	159

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 35



WIRING DIAGRAM FOR CONTROL PEDESTAL #2
1/10 SCALE

- A-00 Amp normally closed Street Lighting Relay Automatic Switch Co. Type 5L or Equal.
 - C-Rotational Time Switch, Safer Type ZY-SOL or Equal not adjusted for reverse operation. Front Letter 'R' on cover.
 - D-2 1/2" x 1/2" Control Box with hinged cover; Donnell El Mfg. Co. Control Box or Equal with 5 Amp Fuse.
 - E-Connecter C-4 (Cat # 50 C-1) Cover DS 181 with Hubbell Toggle Switch.
 - F-Porcelain Lamp socket CH Cat # 100 with connector CH Cat # 117.
 - G-Single Fuse Terminal Block See D.W.S.G.E. DWG # 2555.
- 1965 METHOD OF MOUNTING ELEC. EQUIPMENT IN CON. AREA SEE APPLICABLE D.W.S.G.E. DWG NO. ON SHEET 3
2. FOR DETAILS OF GRANITE CONTROL PEDESTAL SEE APPLICABLE D.W.S.G.E. DWG NO. ON SHEET 3

NOTE: DO NOT DISTURB EXISTING ELECTRIC CABLES AT EL. 100.0 UNDER BRONX RIVER RELOCATED

- NOTES
1. See Legend & Notes on Sheet No. 35.
 2. For Alignment, see " " " 21
 3. " Grading, " " " 26
 4. " Drainage, " " " 31
 5. " Lighting of E 174th St Ramps see Sheet No. 61
 6. For Landscaped Area No. 2 development see Sheet No. 64
 7. Comfort Sta #2 is N.I.C. See Note 6 on Sheet 31

In Charge Of SEARS & KOFFER JEE
Made By C.L.N.
Traced By T.L.B. & J.W.
Checked By S.B. JEE.

Revised by Shumavon Buckley & Goul
Sept 26, 1961

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

ELECTRICAL DISTRIBUTION PLAN
STA. 49+10 TO STA. 62+50±

SCALE 1" = 30'	DATE 1-11-56	SHEET NO. 35
CLARKE & RAPUANO NEW YORK		ENGINEERS

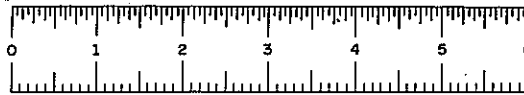
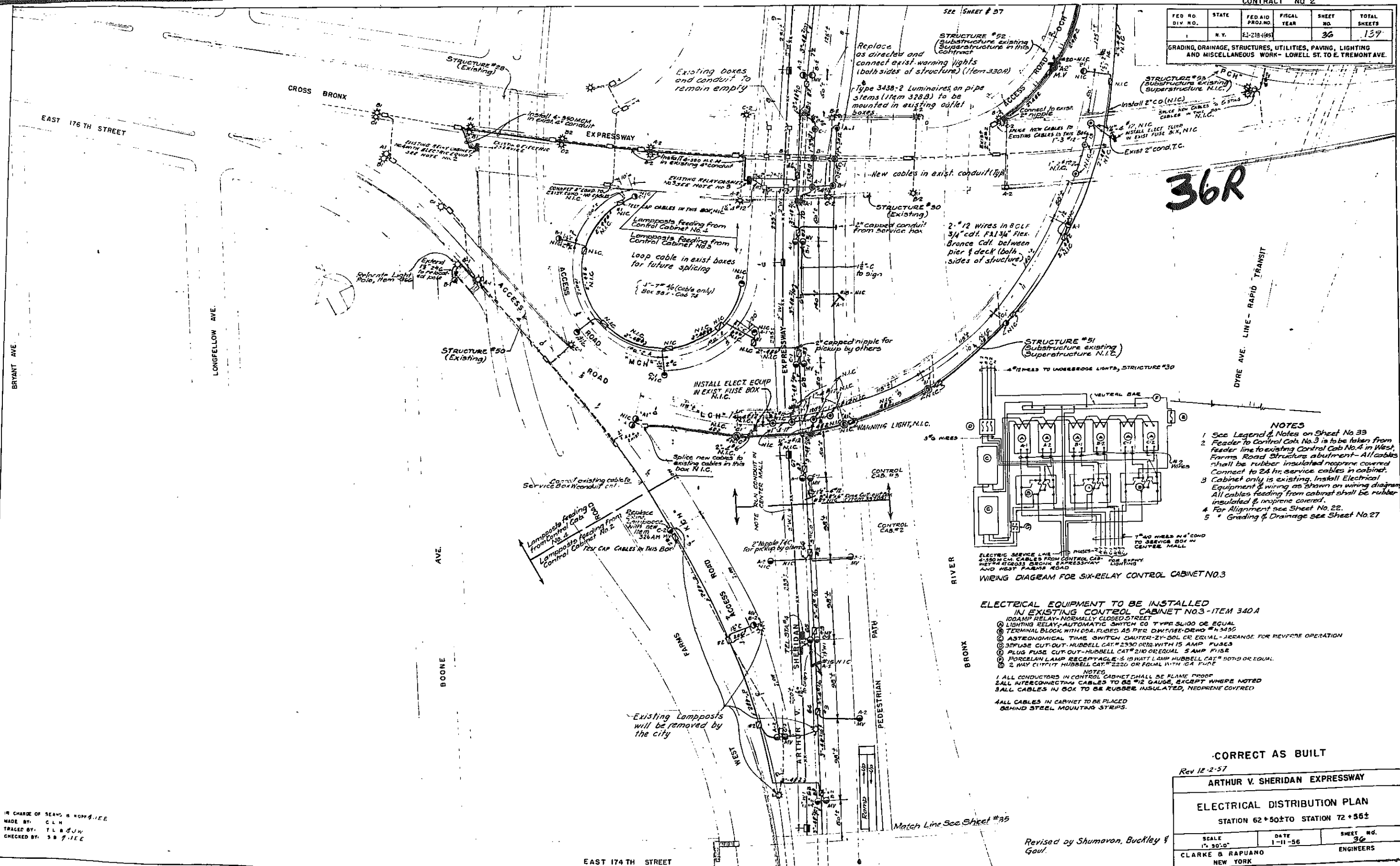


PLATE 60-1

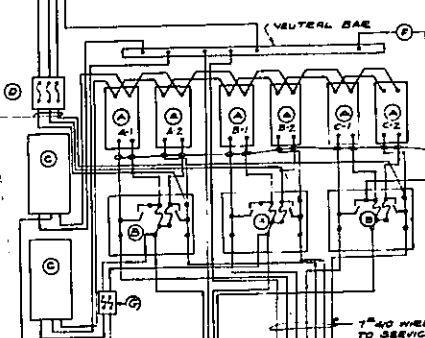
CONTRACT NO. 2

FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL-218(45)		36	137

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.



36R



WIRING DIAGRAM FOR SIX-RELAY CONTROL CABINET NO. 3

- NOTES**
- 1 See Legend & Notes on Sheet No. 33
 - 2 Feeder to Control Cab No. 3 is to be taken from feeder line to existing Control Cab No. 4 in West Farms Road Structure abutment - All cables shall be rubber insulated neoprene covered. Connect to 24 hr. service cables in cabinet.
 - 3 Cabinet only is existing. Install Electrical Equipment & wiring as shown on wiring diagram. All cables feeding from cabinet shall be rubber insulated & neoprene covered.
 - 4 For Alignment see Sheet No. 22.
 - 5 Grading & Drainage see Sheet No. 27

- ELECTRICAL EQUIPMENT TO BE INSTALLED IN EXISTING CONTROL CABINET NO. 3 - ITEM 340 A**
- 100 AMP RELAY - NORMALLY CLOSED STREET
 - LIGHTING RELAY - AUTOMATIC SWITCH CO TYPE SW100 OR EQUAL
 - TERMINAL BLOCK WITH CO. FUSES AS PER DWG. SHE. DEMO. #4343G
 - ASTRONOMICAL TIME SWITCH SAUTER-2Y-30L OR EQUAL - ARRANGE FOR REVERSE OPERATION
 - 3P FUSE CUT-OUT - HUBBELL CAT. #2330 OR EQUAL WITH 15 AMP FUSES
 - PLUG FUSE CUT-OUT - HUBBELL CAT. #210 OR EQUAL 5 AMP FUSE
 - PORCELAIN LAMP RECEPTACLE - 3 1/2 WATT LAMP HUBBELL CAT. #5070 OR EQUAL
 - 2 WAY CUT-OUT HUBBELL CAT. #2220 OR EQUAL WITH 10A FUSE

- NOTES**
- 1 ALL CONDUCTORS IN CONTROL CABINET SHALL BE FLAME PROOF
 - 2 ALL INTERCONNECTING CABLES TO BE #12 GAUGE, EXCEPT WHERE NOTED
 - 3 ALL CABLES IN BOX TO BE RUBBER INSULATED, NEOPRENE COVERED
 - 4 ALL CABLES IN CABINET TO BE PLACED BEHIND STEEL MOUNTING STRIPS.

CORRECT AS BUILT

Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

ELECTRICAL DISTRIBUTION PLAN
STATION 62+50± TO STATION 72+56±

SCALE	DATE	SHEET NO.
1" = 30'-0"	1-11-56	36

CLARKE B. RAPIANO
NEW YORK ENGINEERS

IN CHARGE OF SEARS & ROBBINS, I.E.E.
MADE BY: C.L.H.
TRACED BY: T.L.B.S.J.W.
CHECKED BY: S.B.F.I.E.E.

Revised by Shumaron, Buckley & Goul.
Match Line See Sheet #35

EAST 174 TH STREET

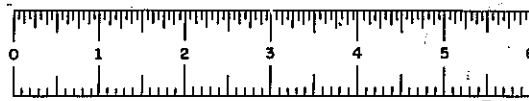


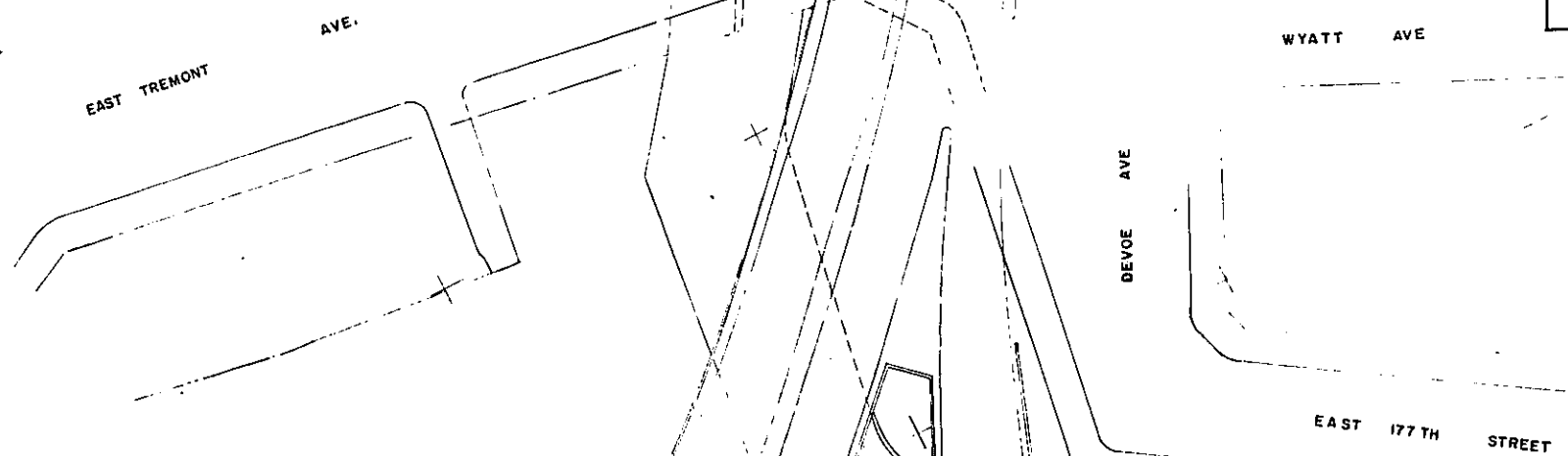
PLATE 60-1

CONTRACT NO.

FED. RD. DIV. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E1-278-169		37	139

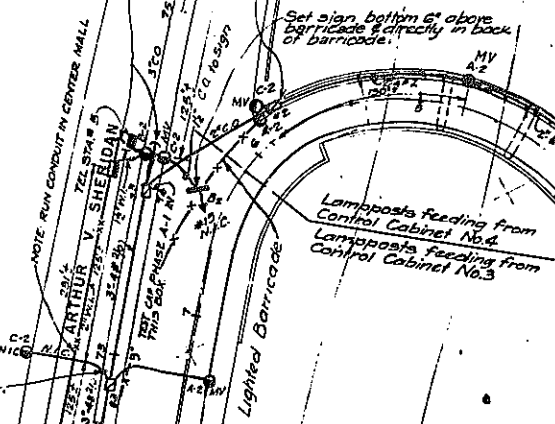
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE

37R



END OF THIS CONTRACT STA. 75+50±

Match Line - See Sheet # 36



NOTES
1. See Legend & Notes on Sheet No. 35

CORRECT AS BUILT

Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

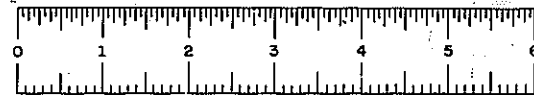
ELECTRICAL DISTRIBUTION PLAN
STA. 72+55± TO STA. 75+0±

SCALE	DATE	SHEET NO.
1" = 80'-0"	1-17-56	37

CLARKE & RAPUANO
NEW YORK ENGINEERS

IN CHARGE OF: SEARS & KOPP & J.E.E.
 MADE BY: C.L.H.
 TRACED BY: H.S.O. & J.W.
 CHECKED BY: S.B. & J.E.E.

Revised by Shumovon Buckley and Goul
 Sept. 26, 1961.

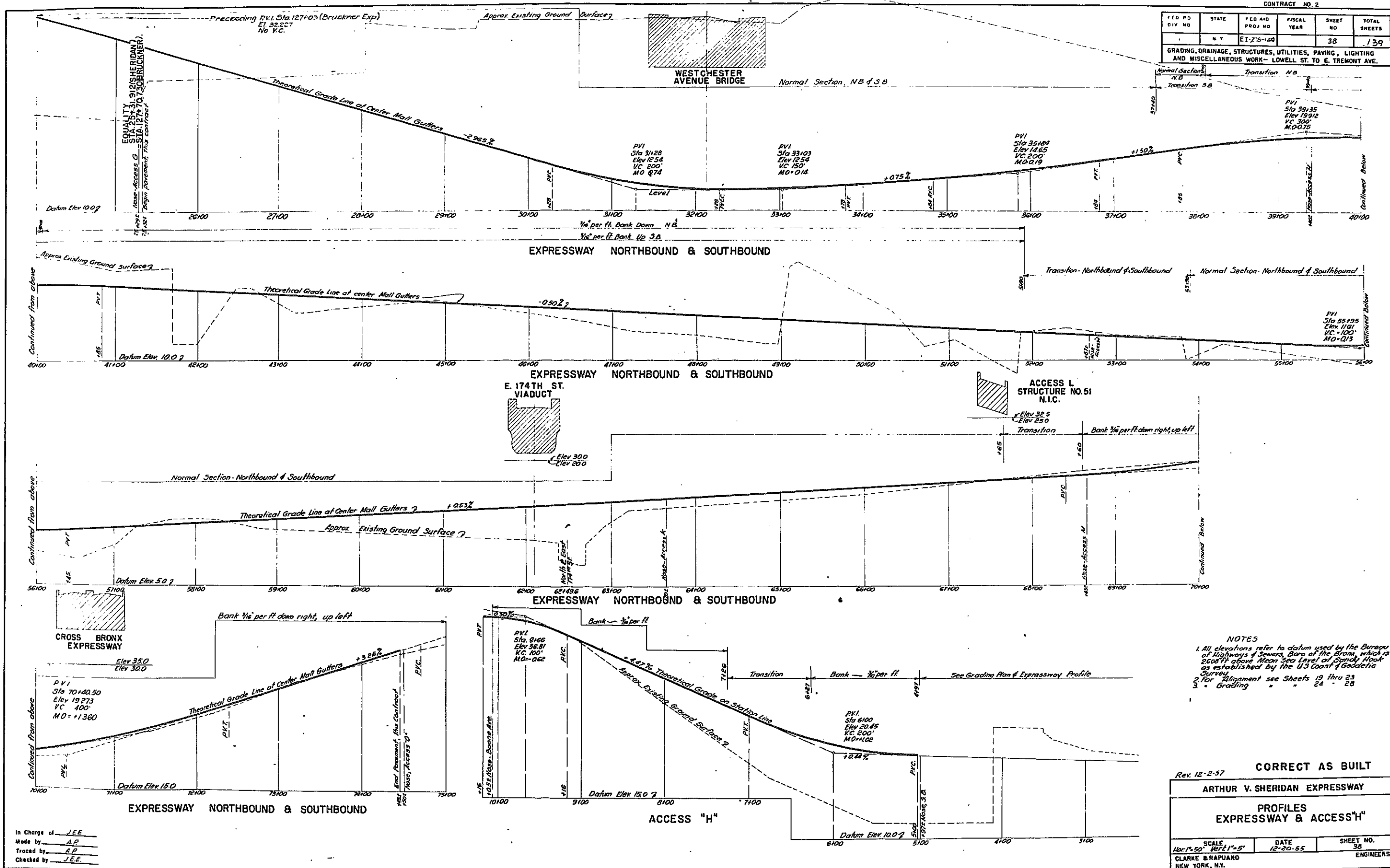


PHASE 60-1

CONTRACT NO. 2

FED. PD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	EI-278-100		38	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.



NOTES
 1. All elevations refer to datum used by the Bureau of Highways & Sewers, Baro of the Bronx, which is 2608 ft above Mean Sea Level of Sandy Hook as established by the U.S. Coast & Geodetic Survey.
 2. For Alignment see Sheets 19 thru 23
 3. Grading " " 24 - 28

Rev. 12-2-57		
CORRECT AS BUILT		
ARTHUR V. SHERIDAN EXPRESSWAY		
PROFILES EXPRESSWAY & ACCESS "H"		
SCALE Hor. 1" = 50' Vert. 1" = 5'	DATE 12-20-55	SHEET NO. 38
CLARKE & RAPUANO NEW YORK, N.Y.		ENGINEERS

In Charge of J.E.E.
 Made by A.P.
 Traced by A.P.
 Checked by J.E.E.

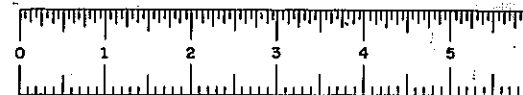
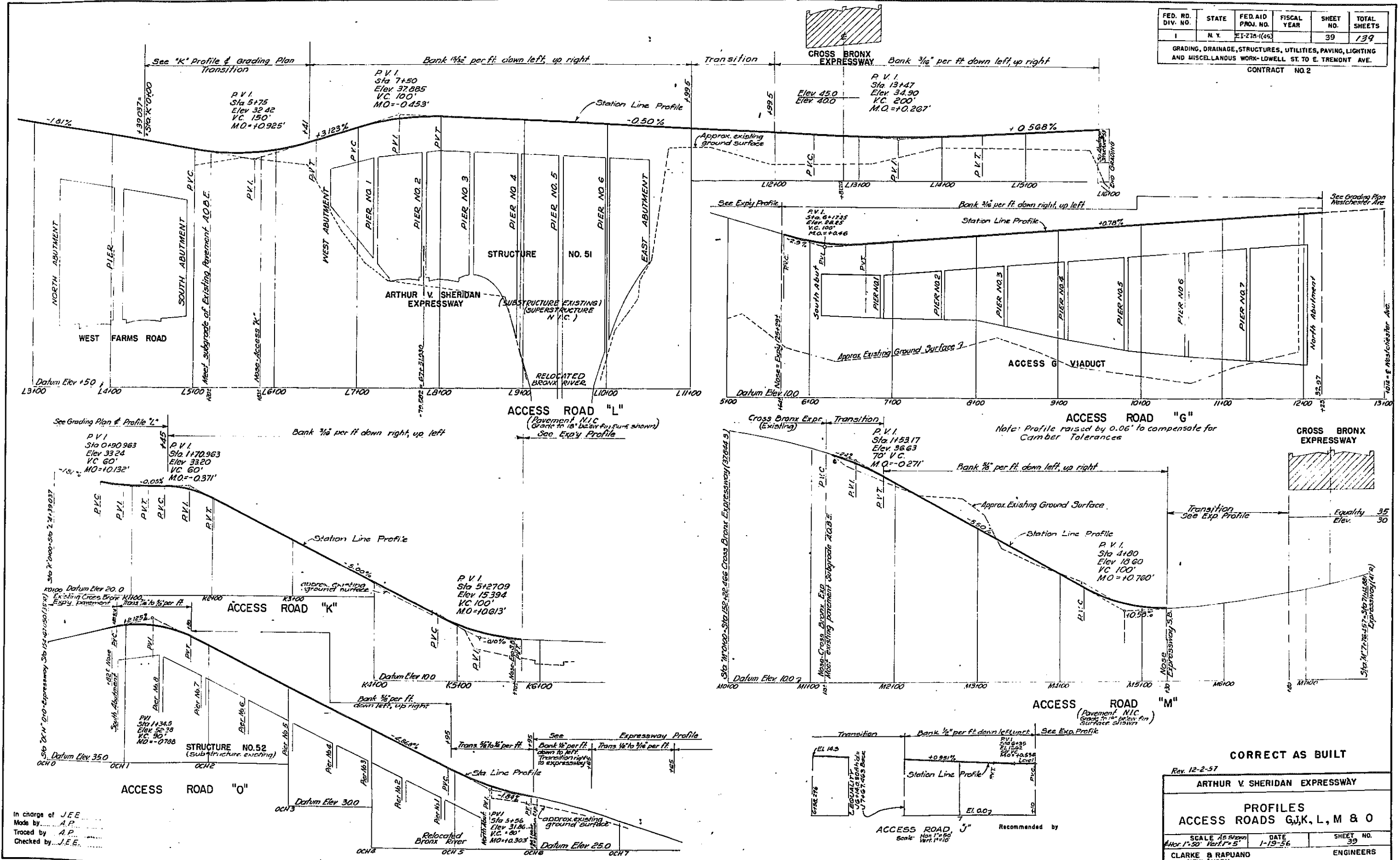


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EI-278-1(45)		39	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



In charge of J.E.E.
Made by A.P.
Traced by A.P.
Checked by J.E.E.

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

PROFILES
ACCESS ROADS G, J, K, L, M & O

SCALE As Shown Hor. 1" = 50' Vert. 1" = 5'	DATE 1-19-56	SHEET NO. 39
CLARKE & RAPUANO NEW YORK		ENGINEERS

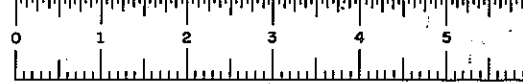
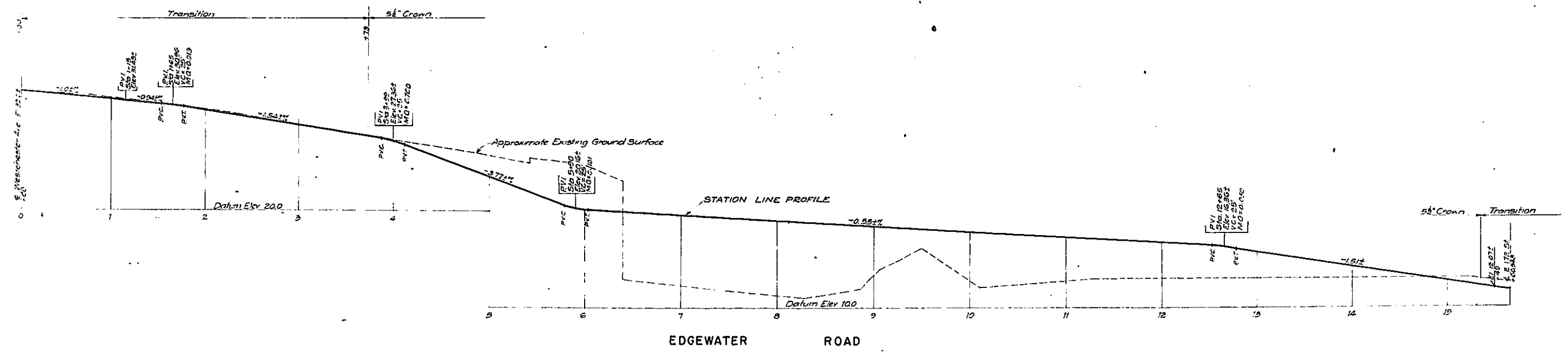
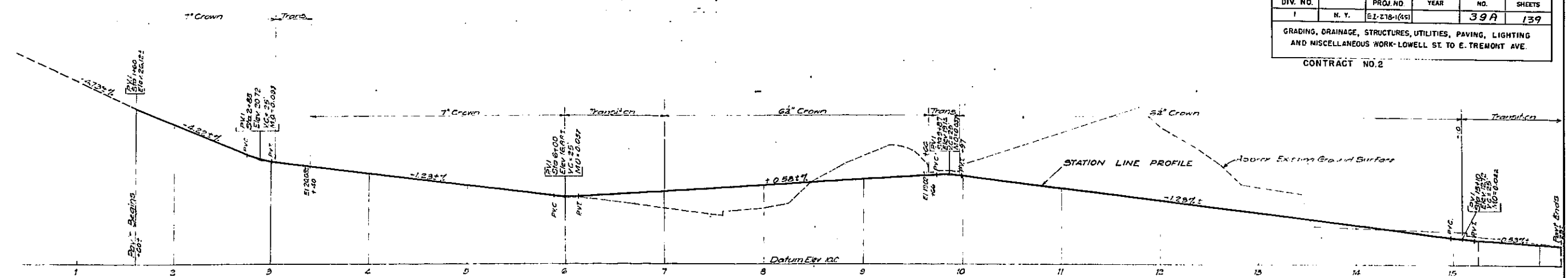


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	E2-218-(45)		39A	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO. 2



In Charge of J. E. Ekeblad
 Made by J. Walter
 Traced by J. Walter
 Checked by J. E. E.

CORRECT AS BUILT
 Rev 12-2-57
 ARTHUR V. SHERIDAN EXPRESSWAY

**PROFILES
 CITY STREETS**

DRAWING NO.	SCALE	DATE	SHEET NO.
MS-1130	1" = 20'	8-2-57	39A

CLARKE & RAPUANO
 CONSULTING ENGINEERS
 & LANDSCAPE ARCHITECTS

145 E. 32ND ST.
 NEW YORK

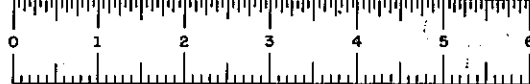
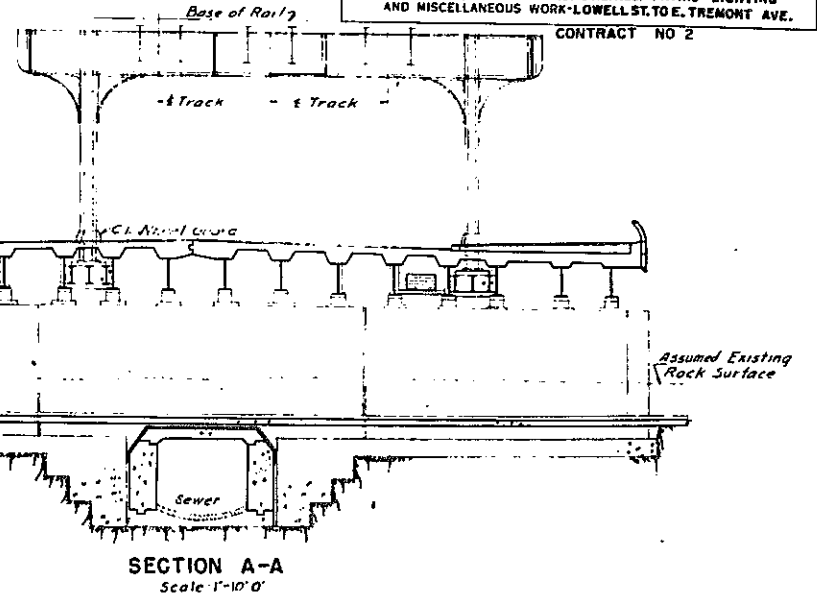


PLATE 60-1

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-278-1(46)		40	139

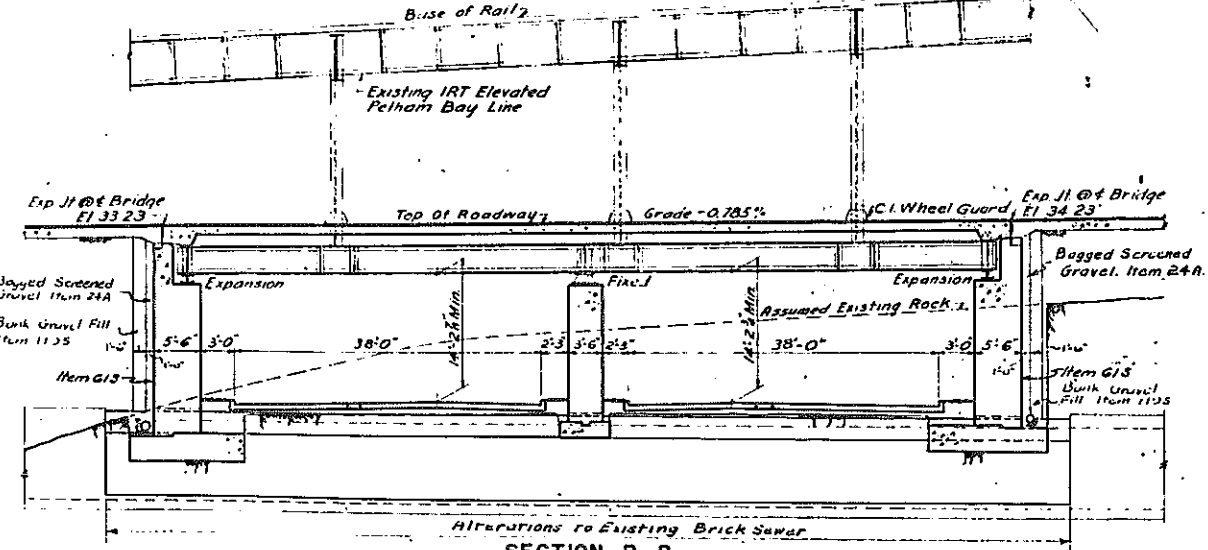
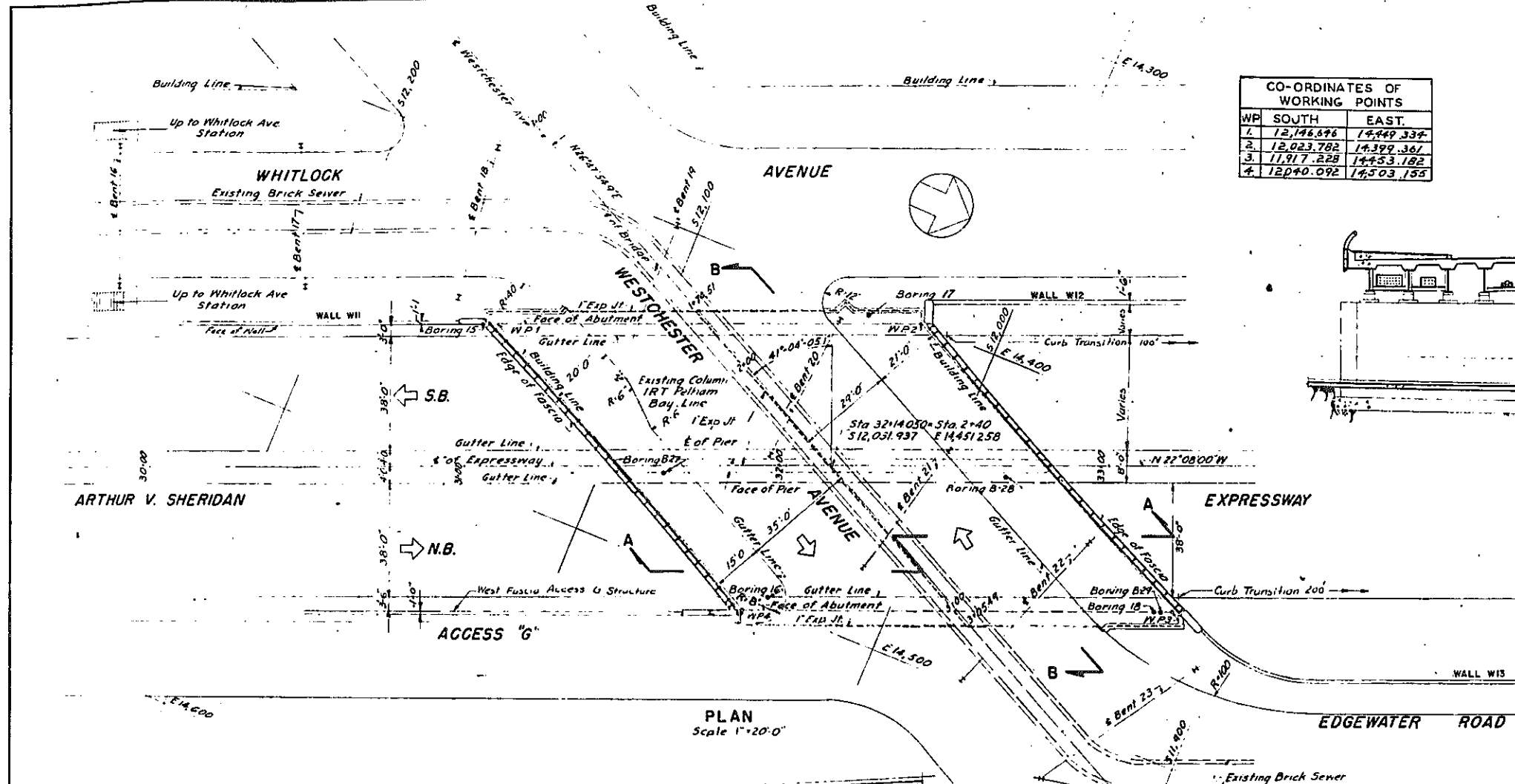
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

WP	SOUTH	EAST
1	12,146.676	14,449.337
2	12,023.782	14,399.361
3	11,917.228	14,453.182
4	12,040.092	14,503.155



FINAL	ITEM	TITLE	UNIT	QUANTITY	
				NEAT	ROUND
1109	55	Trench, Culvert & Bridge Excavation	CY	1773	1808
323	10RS	Pipe Underdrain 6" Dia.	LF	335	343
16	13B	Cast Iron Pipe 6" Dia.	LF	22	23
4689	15-B	Portland Cement Type 2	Bbl.	3756	3800
765	15-N	Natural Cement Type N	Bbl.	537	550
282163	185	Class 1A Concrete for Structures	CY	2701	2760
70106	23DS	Dimension Masonry	SF	644	660
61528	23S	Stone Masonry	SF	925	950
2462	24A	Bagged Screened Gravel	CY	249	255
534	25F	Steel Fabric Reinforcement	S.Y.	709	725
11919	28XAS	Stud Shear Connectors	Ea.	11888	11900
801966	28RR	Bar Reinforcement for Structures	Lbs.	356,650	357,000
991011	29R2	Structural Steel	Lbs.	882,003	900,000
5343	30S	Miscellaneous Metals	Lbs.	3200	3375
241	37B	Metal Rolling Type B	LF	230	250
213	41	Bituminous Material	Gal.	267	270
6	700	Flexible Bronze Conduit, 1/2" Dia.	LF	6	6
5197	83X	Temporary Sheet Piling	SF	4232	4400
235	713	Protective Coating for Concrete	Gal.	235	235
1947	102S	Catch Basins, Manholes & Drop Inlets	CY	19	20
360	117A	Bank Gravel Fill	CY	14	15
42.86%	715A	Personnel Furnished by NYC Transit Authority	L.S.	42.86%	42.86%
6	328A	Furnish & Install Type 3+3B-2 Underpass Luminaire	Ea.	6	6
2	330A	Furnish & Install Type A Warning Unit	Ea.	2	2
1	330B	Cast Iron Service Box, Sidewalk Type #2	Ea.	1	1
1	339A	6 Relay Control Cabinet	Ea.	1	1
1	370A	Electrical Equipment for 6 Relay Control Cabinet	Ea.	1	1
108	372A	Conduit, Hot Dipped Galv. Steel Pipe, 3/4"	LF	102	115
313	372B	Conduit, Hot Dipped Galv. Steel Pipe, 1"	LF	289	300
93	372C	Conduit, Hot Dipped Galv. Steel Pipe, 1 1/4"	LF	50	50
1682	374NA	Furnish & Install Conductor, #12 R.I.N.C.	LF	1211	1250
101	13E	Cast Iron Pipe 12" Dia.	LF	0	0
577	374NA	Furnish & Install Conductor #2 R.I.N.C.	LF	520	530
132	402E	Conduit, Genuine Wrought Iron Pipe, 2"	LF	115	120
16	421	Underpinning of I.R.T. Div. Elevated R.R. Columns	Ea.	7	10
2846	424A	T. A. 4" Transite Duct 0.37" Wall	LF	2743	2840
271	425A	Furnish & Install 3 Conductor Cable #40 P.I.L.C.	LF	246	270
136	425B	Furnish & Install 3 Conductor Cable #8 P.I.L.C.	LF	133	135
160	51M	Asphalt Concrete	Ton.	160	160
100%	470	Consolidated Telegraph & Electric Subway Co. Facilities	L.S.	Nec.	Nec.
100%	471	Empire City Subway Co. Facilities	L.S.	Nec.	Nec.
100%	472	Consolidated Edison Co. Facilities	L.S.	Nec.	Nec.
235	15-25	Portland Cement Type 2, Plus A.E.A.	Bbl.	0	0
207	372E	Conduit Hot Dipped Galv. Steel Pipe 2"	LF	130	135
33	372F	Conduit Hot Dipped Galv. Steel Pipe 3"	LF	12	15
0	15-2A	Portland Cement Type 2A	Bbl.	0	0
23	352A	Rubber Joint Material	Gal.	30	32

	Sheet No.
Framing Plan & Structural Details	4-3
Design Data & Structural Details	4-4
Structural Sections & Details	4-5
Structural Steel Details	4-6
Underpinning - Plan & Sections	4-7
East Abutment	18
West Abutment	19
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Alteration of Existing Sewer	31
Utilities - Plan & Sections	52
Utilities - Details & Sections	53
Utility & Detour Plan	54
I.R.T. Cable Installation	56
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Architectural Plans	71 & 72
Alignment & Paving Plans	19
Profiles	38
Grading Plan	24
Drainage Plan	29
Electrical Plan	33
General Notes	79



In charge of S. Roos, R.O.B.
Made by J.Z. & F.W. EXM.
Traced by H. Trager, R.R.
Checked by S. Roos, EXM.

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVENUE
GENERAL PLAN & SECTIONS

DWG. NO.	SCALE	DATE	SHEET NO.
P. 57	AS SHOWN	JUNE 30, 1947	40

CLARKE & RAPUANO
NEW YORK, N. Y. ENGINEERS

Rev. 12-2-57

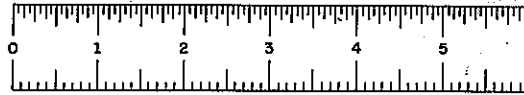
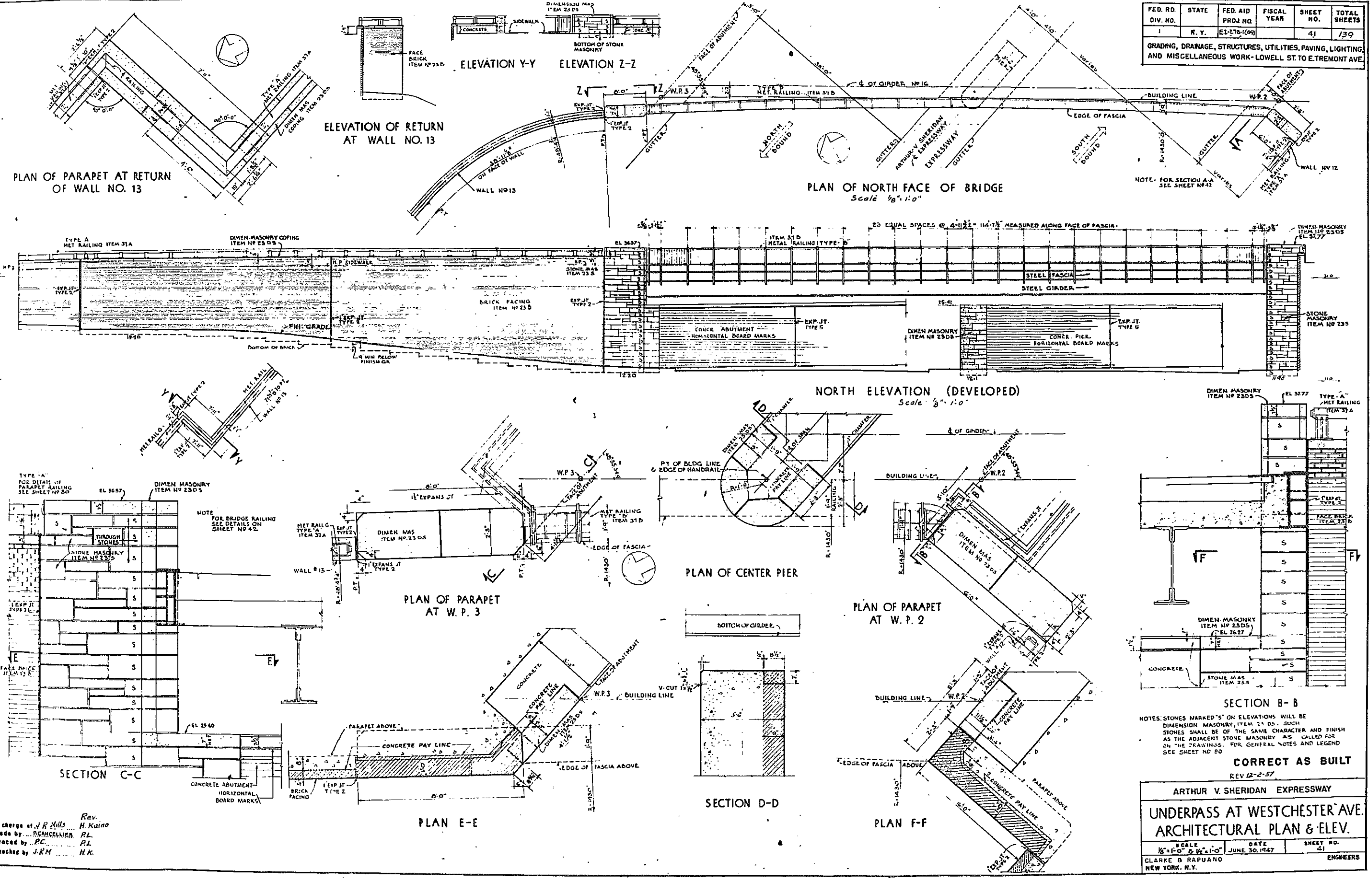


PLATE 60-1

CONTRACT NO. 2

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EL-276-(49)		41	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.



NOTES: STONES MARKED "S" ON ELEVATIONS WILL BE DIMENSION MASONRY, ITEM # 23 DS, SUCH STONES SHALL BE OF THE SAME CHARACTER AND FINISH AS THE ADJACENT STONE MASONRY AS CALLED FOR ON THE DRAWINGS. FOR GENERAL NOTES AND LEGEND SEE SHEET NO. 20

CORRECT AS BUILT
REV 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVE.
 ARCHITECTURAL PLAN & ELEV.

SCALE 1/8"=1'-0" & 1/4"=1'-0"	DATE JUNE 30, 1947	SHEET NO. 41
CLARKE B. RAPUANO NEW YORK, N.Y.		ENGINEERS

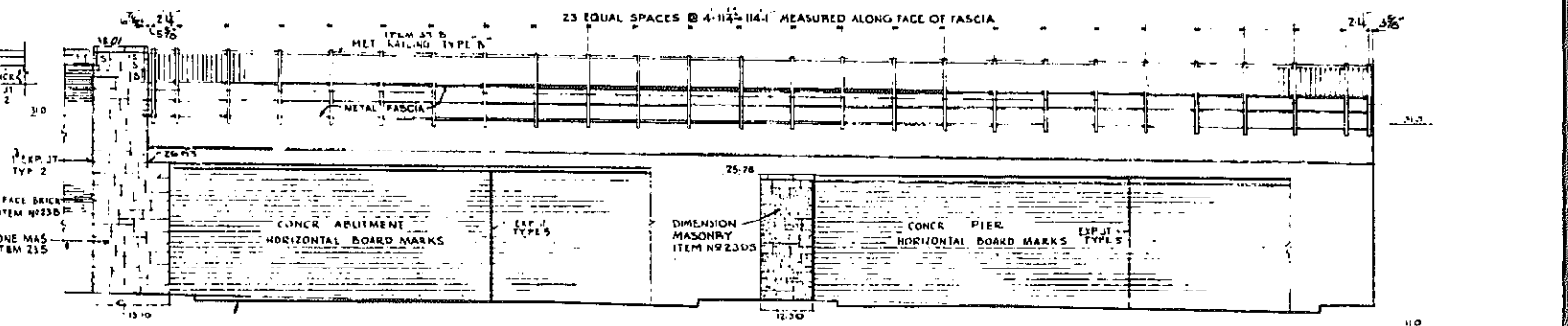
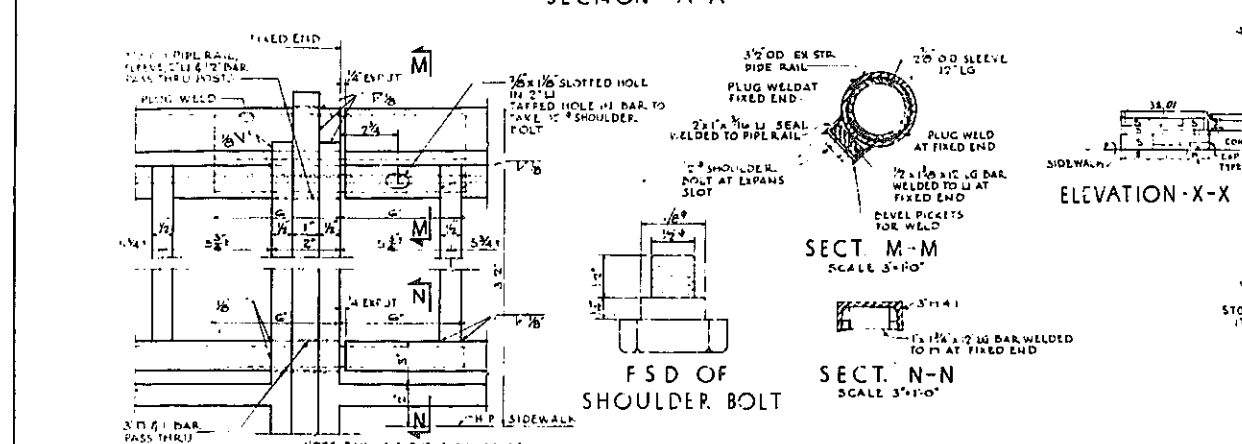
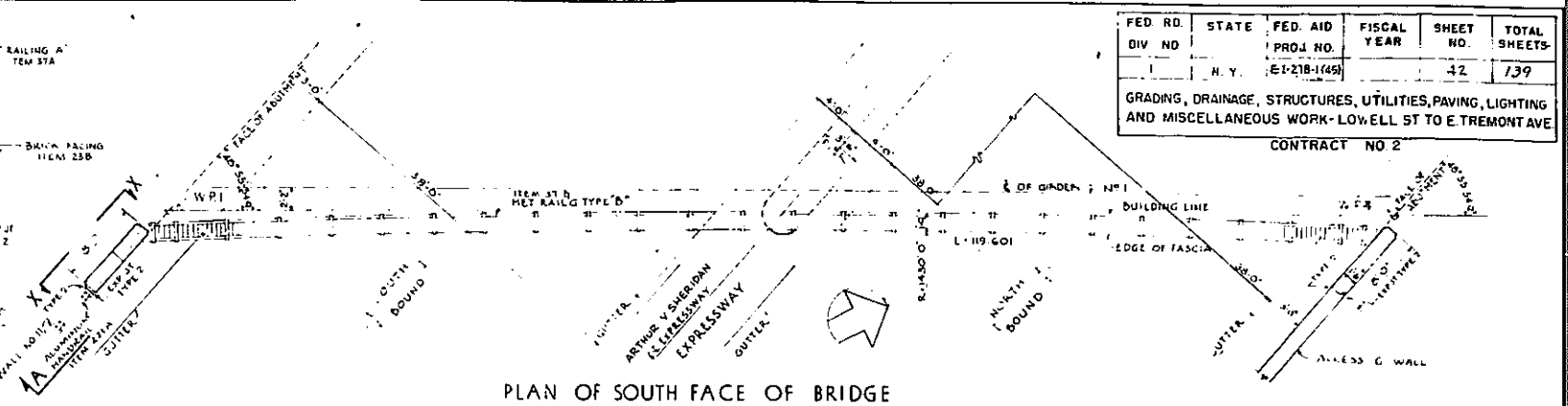
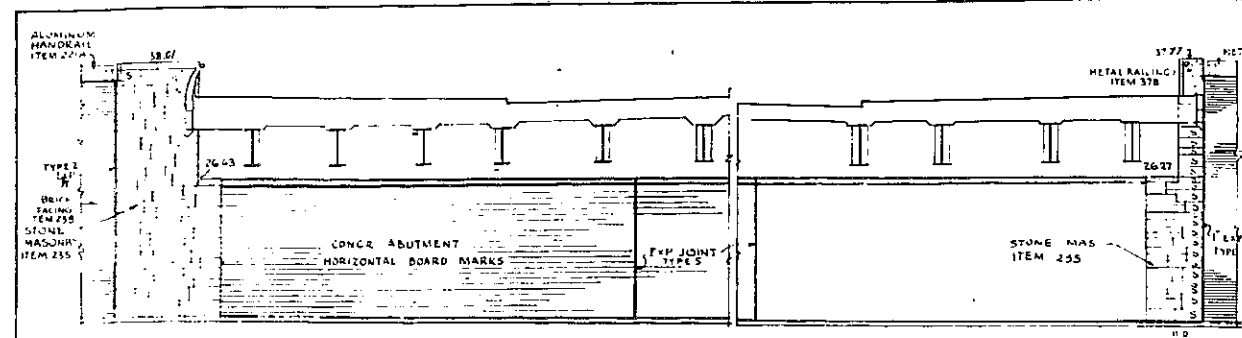
In charge of J.R. Mills
 Made by ... H. Kaino
 Traced by ... P.C.
 Checked by J.R.M. H.K.



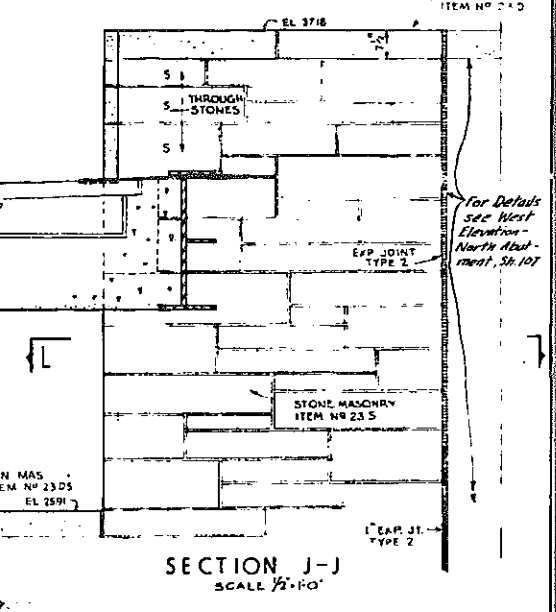
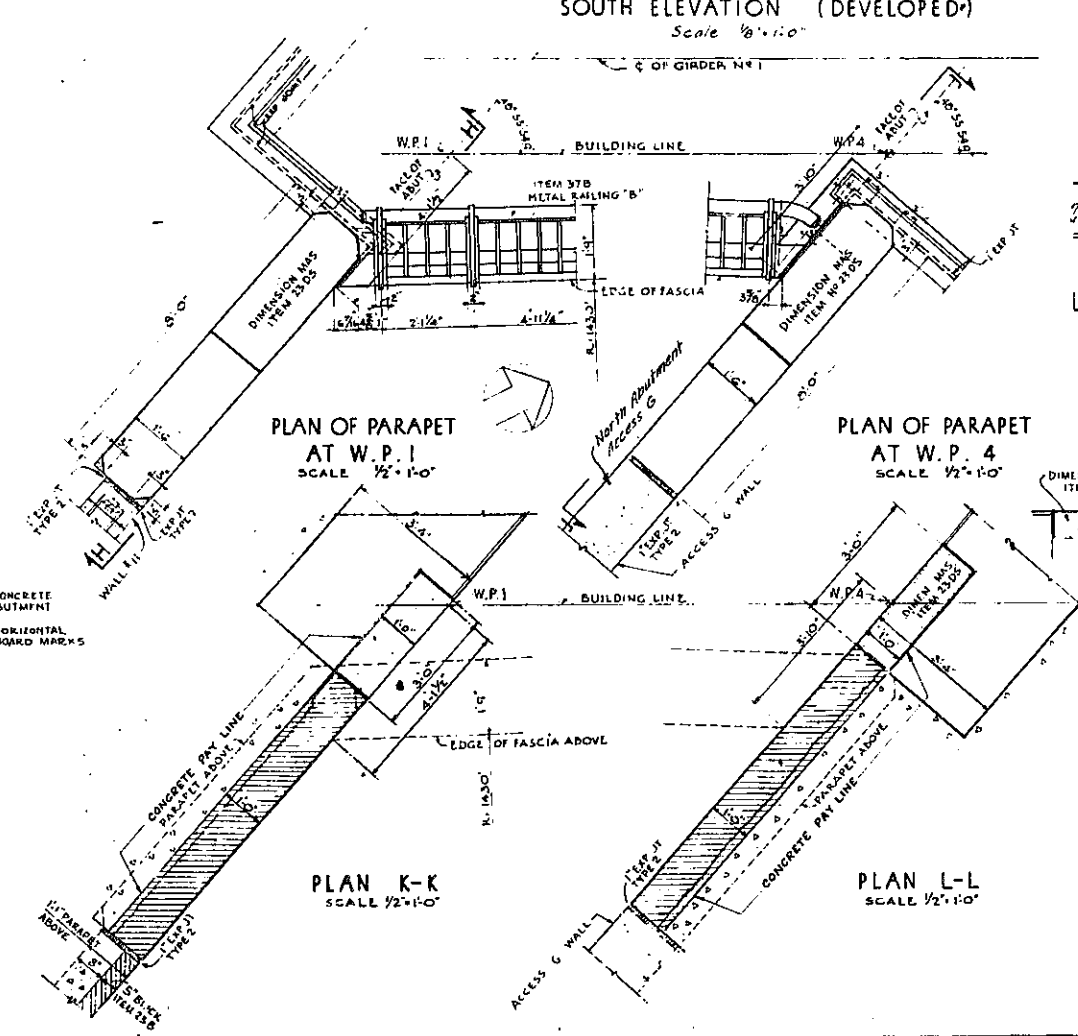
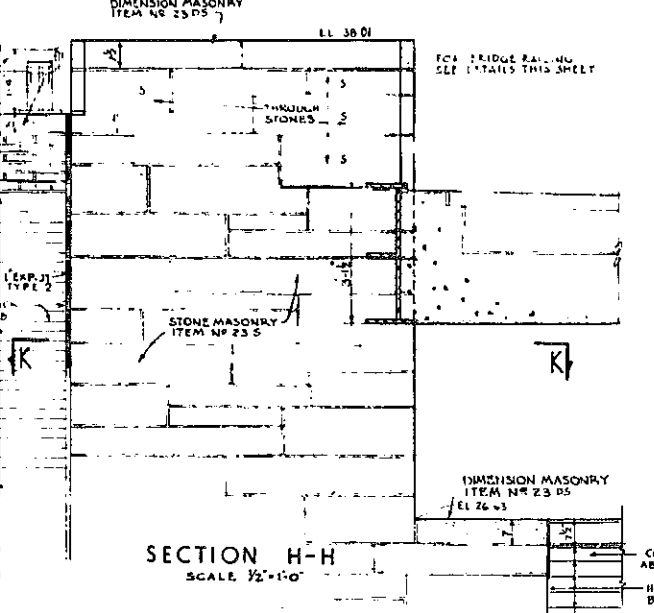
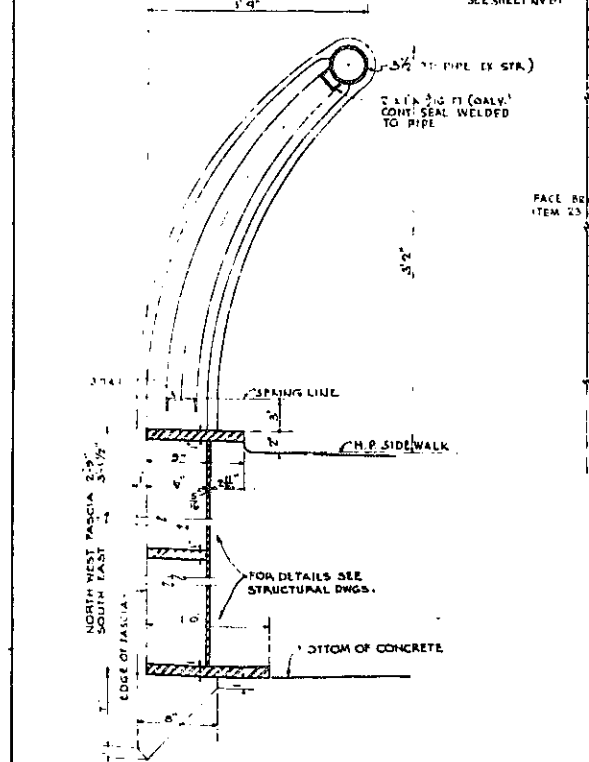
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	E-1218-1(45)		42	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST TO E. TREMONT AVE
CONTRACT NO 2



OUTSIDE ELEVATION OF BRIDGE RAILING AT EXPANSION JTS
SCALE 3/4" = 1'-0"



In Charge of J.R. Mills
Made by P. Cancellieri, P.L.
Traced by R.C. R.L.
Checked by J.R. Mills, H.K.

SECTION THRU RAILING AND FASCIA
TYPE - "B" (ITEM 37.B)
SCALE 1/2" = 1'-0"

NOTES: STONES MARKED 'S' ON ELEVATIONS WILL BE DIMENSION MASONRY, ITEM 23 DS. SUCH STONES SHALL BE OF SAME CHARACTER AND FINISH AS THE ADJACENT STONE MASONRY. FOR GENERAL NOTES AND LEGEND SEE SHEET NO 20

CORRECT AS BUILT

Rev. 12-2-57

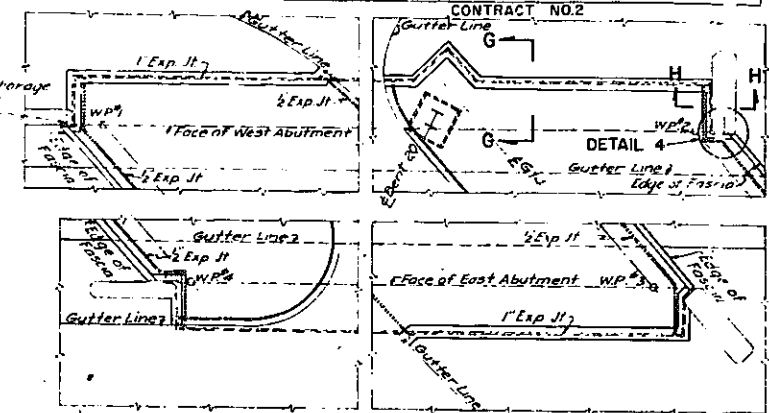
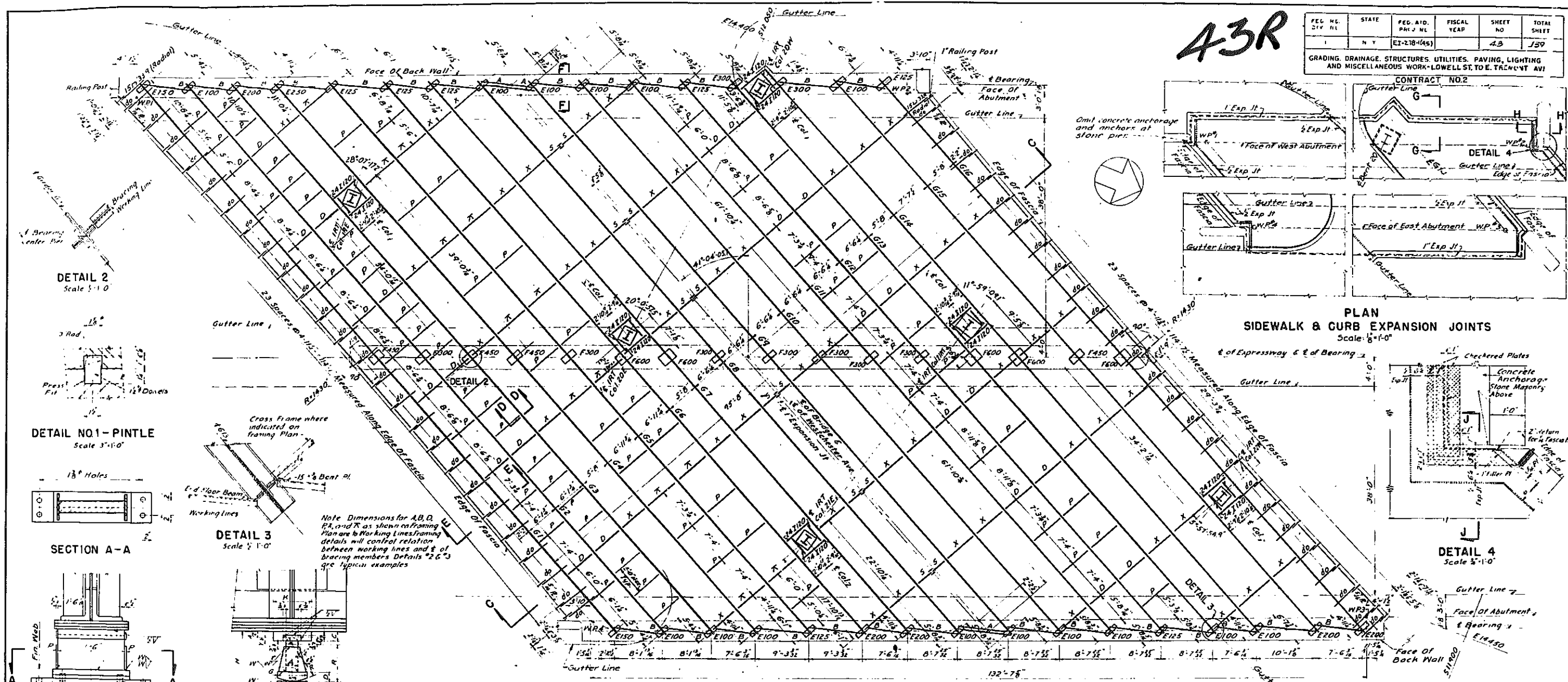
ARTHUR V. SHERIDAN EXPRESSWAY		
UNDERPASS AT WESTCHESTER AVE.		
ARCHITECTURAL PLAN & ELEV.		
SCALE - 1/8" = 1'-0" & 1/2" = 1'-0"	DATE - JUNE 30, 1947	SHEET NO. - 42
CLARKE B. RAPUANO NEW YORK, N.Y.		ENGINEERS

43R

FED. HL. DIV. NO.	STATE	FED. AID. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
1	N.Y.	EE-218(45)		43	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TRENTON AV.

CONTRACT NO. 2



PLAN
SIDEWALK & CURB EXPANSION JOINTS
Scale: 1/8"=1'-0"

DETAIL 2
Scale 1/2"=1'-0"

DETAIL NO. 1 - PINTLE
Scale 1/2"=1'-0"

DETAIL 3
Scale 1/2"=1'-0"

SECTION A-A

DETAIL NO. 1

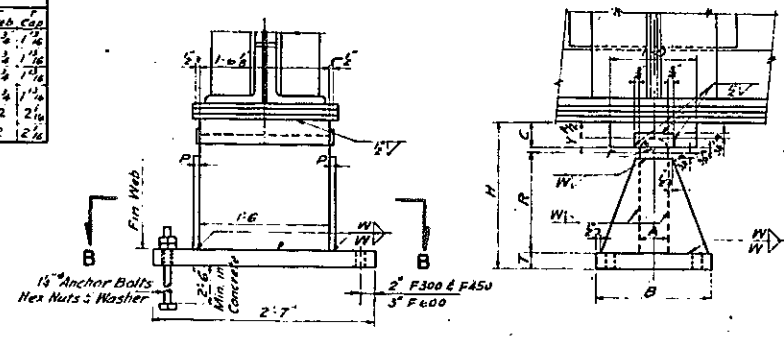
Note: Dimensions for A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

FRAMING PLAN
Scale: 1/8"=1'-0"

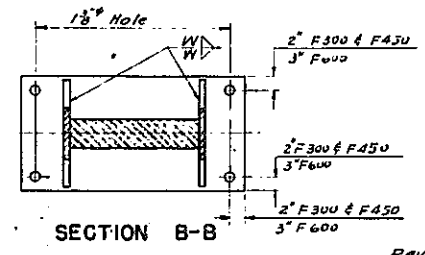
NOTES:
All Steel is Item 292

DIMENSIONS															
No. of	B	L	T	H	R	N	C	A	D	G	P	K	Y	W	Web Cap.
E100	8	29	2	11 1/2	6 1/2	18	2 1/2	3	1 1/2	G5 None B5	7	8	1 1/2	1 1/2	1 1/2
E125	8	29	2	12 1/2	7 1/2	18	2 1/2	3	1 1/2	None B5	7	8	1 1/2	1 1/2	1 1/2
E150	8	30	2	13 1/2	8 1/2	19	2 1/2	3	1 1/2	None B5	7	8	1 1/2	1 1/2	1 1/2
E200	8	32	2 1/2	15 1/2	9 1/2	21	2 1/2	3	1 1/2	B	10	7	1 1/2	1 1/2	1 1/2
E250	8	34	2 1/2	17	10 1/2	23	2 1/2	3 1/2	1 1/2	B5	10	7	1 1/2	1 1/2	1 1/2
E300	10	36	3	18 1/2	12	25	3	3 1/2	1 1/2	B5	12	1 1/2	1 1/2	1 1/2	1 1/2

EXPANSION SHOE DETAILS
Scale: 1/2"=1'-0"



FIXED SHOE DETAILS
Scale: 1/2"=1'-0"



SECTION B-B

DIMENSIONS														
No. of	B	H	R	A	P	Y	C	W	Web Cap.	F	T			
F300	10	18	1 1/2	3 1/2	3 1/2	14	3	3/8	2	2 1/2	2 1/2			
F450	16	20 1/2	1 1/2	4	4	15	3 1/2	3/8	2 1/2	2 1/2	2 1/2			
F600	20	23 1/2	1 1/2	4	4	1 1/2	3 1/2	3/8	2 1/2	2 1/2	2 1/2			

LEGEND

- A 2-157E 339 - Exp End Floor Beams
- B 13-4 C-450 - Typical End Floor Beams
- D 2-31C1875 T & B - Diaphragm Brace
- E Expansion Shoe
- F Fixed Shoe
- G Plate Girder
- P BxV31-Utility Support
- S Shear Connection of Exp. Jt.
- X Space
- K Brace

Revision by Shumavon, Buckley & Goul 8-24-41
1. Changed Utility Supports for C.T. & E.S. Co. (Can. Ed. Co. of N.Y. Inc.) Ducts. 10-19-41
2. The 12 Utility Beams (with connections) added by this revision will not be included in the quantity to be paid for under Item 29AZ as the Contractor will be compensated for these by the Consolidated Edison Company of New York Inc. (Letter by Pairier & McLane Corp. of Oct. 12, 1961)
3. Holes in supporting Beams for the C.T. & E.S. Duct Bank shall be drilled in accordance with Can. Ed. Co. of N.Y. Inc. Dwg. No. EO-9217-C rev. #1 & not as shown on the Contract Plans.

REFERENCES: Sheet No.
Structural Steel Details 46
Sections C-C to H-H incl & J-J 45
General Plan & Additional References 40

CORRECT AS BUILT
Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

UNDERPASS AT WESTCHESTER AVENUE

FRAMING PLAN & STRUCTURAL DETAILS

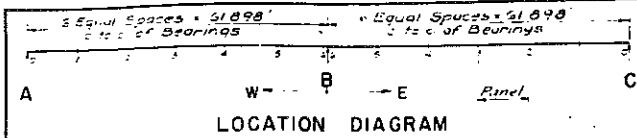
DWG. NO.	SCALE	DATE	SHEET NO.
P40	AS SHOWN	JUNE 20, 1947	43

CLARKE & RAPUANO
NEW YORK, N. Y. ENGINEERS

Rev
In charge of S. Roos D.O.B.
Made by H. Trager P.P.
Traced by H. Trager P.P.
Checked by M. Barron E.K.H.

Maurice P. Barron

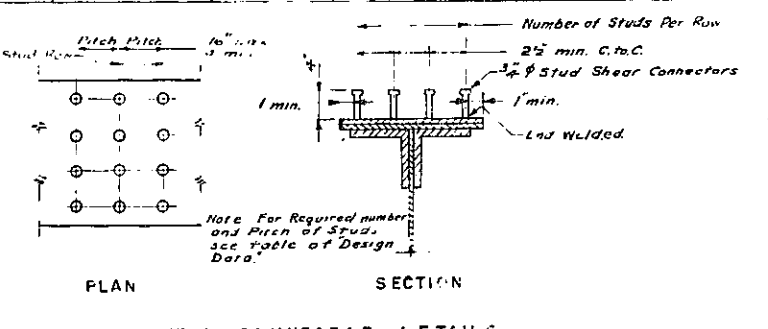
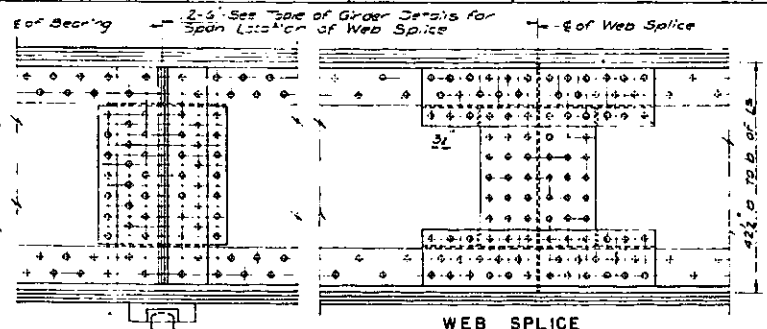
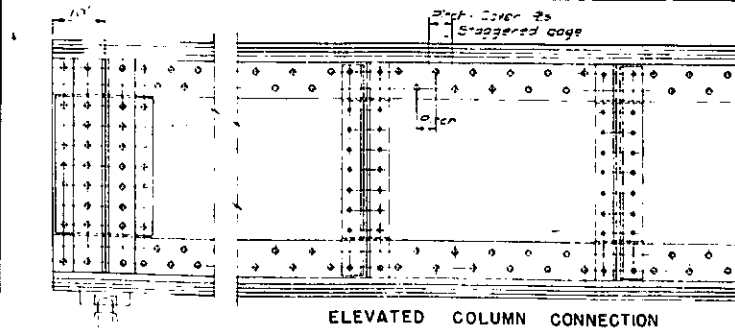
Table with columns: FED RD DIV. NO., STATE, FED AID PROJ NO., FISCAL YEAR, SHEET NO., TOTAL SHEETS. Values include N.Y., E1-278-166, 44, 139.



NOTES: Section 3.6.1 of A.A.S.H.O. specifications shall apply to all steel. Stud Shear Connectors shall be 3/8" B Steel pitch in any panel shall not exceed the minimum pitch shown on drawing of panel.

DESIGN DATA

Main design data table with columns for GIRDERS 1-16 and rows for SHEAR (K), MOMENT (F.K.), SECTION USED, S.M. USED (IN³), STEEL STRESS (K.S.I.), CONCRETE STRESS (P.S.I.), RIVET PITCH (INCHES), PITCH OF STUDS (INCHES), CAMBER (INCHES).



NOTES: 1. All stud shear connectors shall be those manufactured by the Nelson Stud Division of Gregory Industries Inc. or approved equal.

REFERENCES: Framing Plan & Details - Sht No 43, General Plan & Additional References - Sht No 40.

CORRECT AS BUILT

DETAIL AT ABUTMENTS: Typical except at West Abutment G14. Rev: In charge of S. Ross, DDB; Made by A. T. ... PP; Traced by ... PP; Checked by ... ERN.

NOTES: Rivets in all girders are 1" except bracing and BWF connections which are 3/4". Splices: The Deputy Chief Engineer (Bridges) shall approve the location of any field splices requested by the structural steel fabricator.

GIRDER DETAILS table with columns for Girder (1-16) and rows for Rivets, Center Pier, Location-Span, 2-Web Plates, 4-Flange Plates.

ARTHUR V. SHERIDAN EXPRESSWAY UNDERPASS AT WESTCHESTER AVENUE DESIGN DATA AND STRUCTURAL DETAILS. Includes DWG. SCALE, DATE, SHEET NO., and ENGINEERS: CLARKE & RAPAUNO, NEW YORK, N.Y.



PLATE 60-1

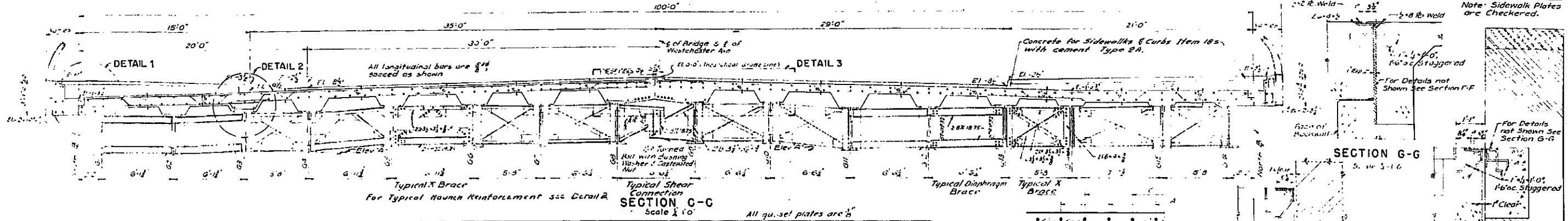
CONTRACT NO. 2

STRUCTURAL SLAB POURING SEQUENCE

The structural slab for the full length of the bridge including the haunches and excluding the areas around the I.R.T. columns and underpinning piers as shown on sheets 46 and 47 shall be poured first from the E expansion joint to the south & construction joint and then from the E expansion joint to the north & construction joint. After the facing have been installed the slab from the E joints to the facing shall be poured.

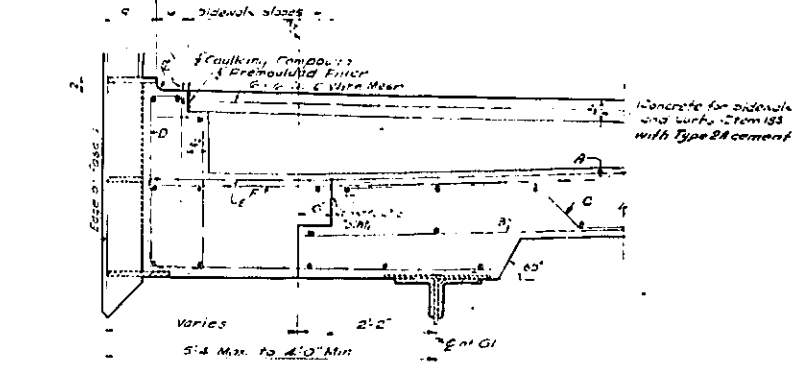
FED. RD. DIV. NO.	STATE	FED. AID P.C.E. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL-278-164		45	139

GRADING DRAINAGE STRUCTURES UTILITIES PAVING LIGHTING AND MISCELLANEOUS WORK - L.W. ST. TO E. TREMONT AVE.

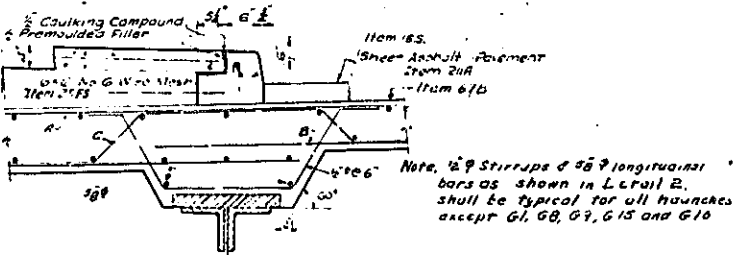


Girder No.	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16
Elev. 'A'	6.42	6.44	6.28	6.28	5.98	5.84	5.84	5.84	5.84	5.72	5.71	6.03	5.94	5.78	5.70	5.97

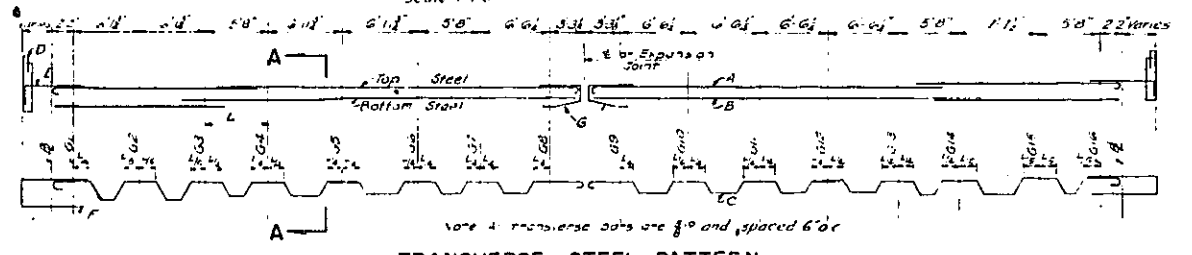
RELATIVE ELEVATIONS FOR GIRDERS
Relative Elevation 'A' is of back of 20'-0" curb, regular curb.



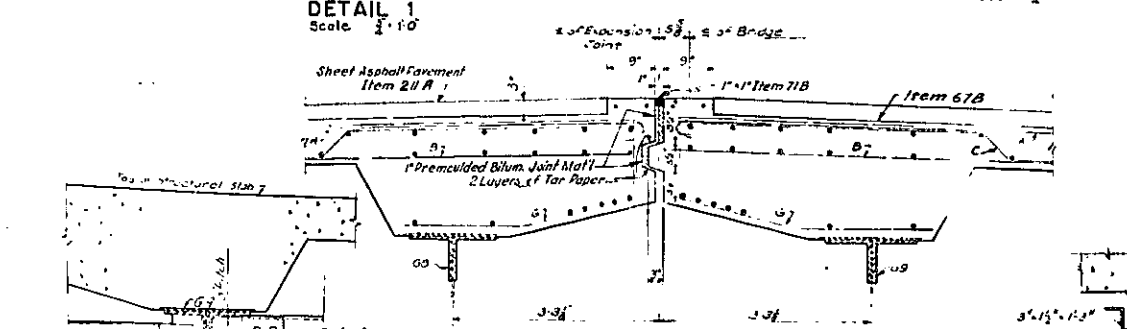
DETAIL 1
Scale 1/2" = 1'-0"



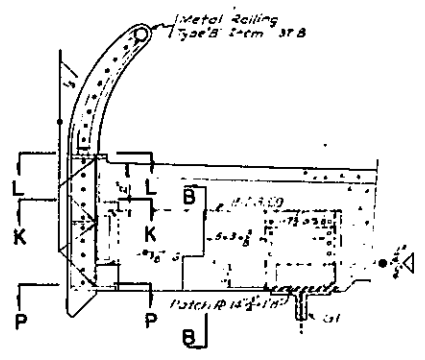
DETAIL 2
Scale 1/2" = 1'-0"



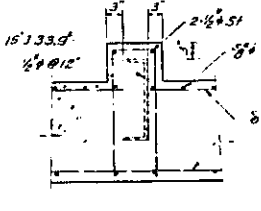
TRANSVERSE STEEL PATTERN
Scale 1/4" = 1'-0" Horiz. 1/8" = 1'-0" Vert.



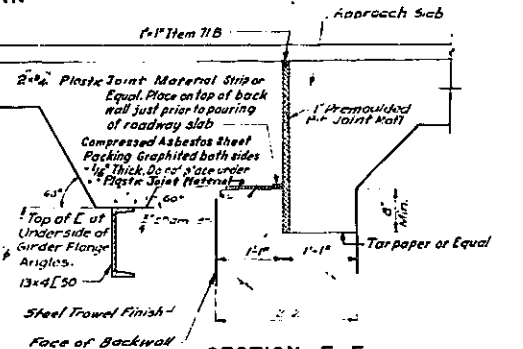
DETAIL 3
Scale 1/2" = 1'-0"



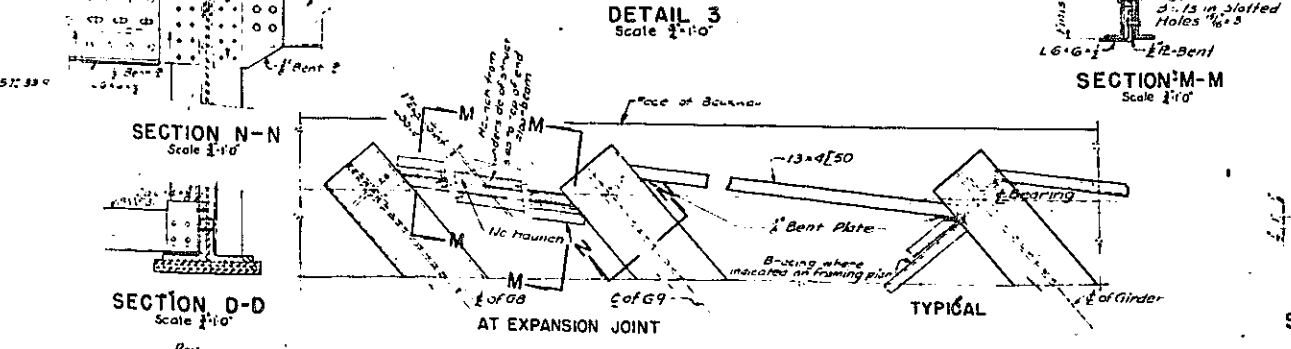
SECTION E-E
Scale 1/2" = 1'-0"



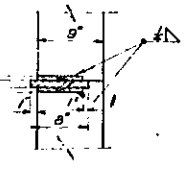
SECTION B-B
Scale 1/2" = 1'-0"



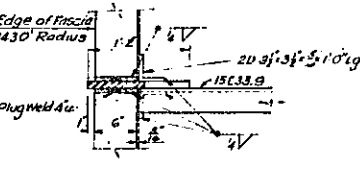
SECTION F-F
Scale 1/2" = 1'-0"



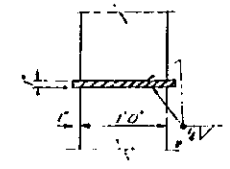
PLAN - END FLOORBEAM
Scale 1/2" = 1'-0"



SECTION L-L
Scale 1/2" = 1'-0"



SECTION K-K
Scale 1/2" = 1'-0"



SECTION P-P
Scale 1/2" = 1'-0"

- NOTES:
- Concrete shall be from 18S except as noted.
 - Bar Reinforcement Item 28.
 - Wire Mesh Reinforcement Item 25FS.

REFERENCES:
 Functional Sect. C, E, H and J-J 43
 Framing Plan Structural Details 29
 General Notes and Abbreviations References 40
 Rev. 12-2-57

ARTHUR W. SHERIDAN EXPRESSWAY
 UNDERPASS AT WESTCHESTER AVENUE
 STRUCTURAL SECTIONS AND DETAILS

UWR P-41A	SCALE AS SHOWN	DATE JUNE 30, 1947	SHEET NO. 45
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CLARKE & RAPUANO ENGINEERS
 NEW YORK, N. Y.

In charge of S. E. ...
 Made by ...
 Traced by ...
 Checked by ...

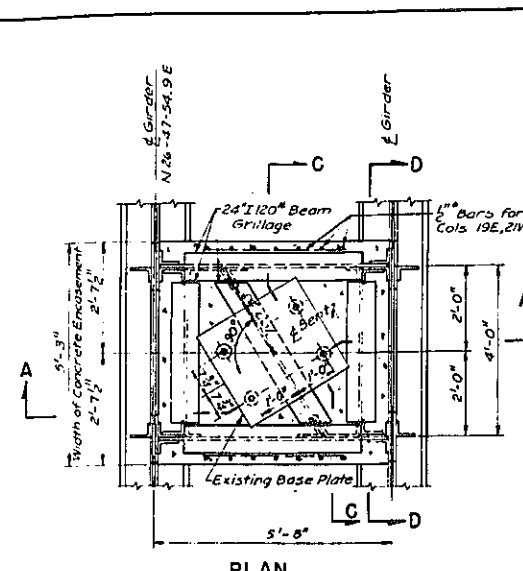
CORRECT AS BUILT



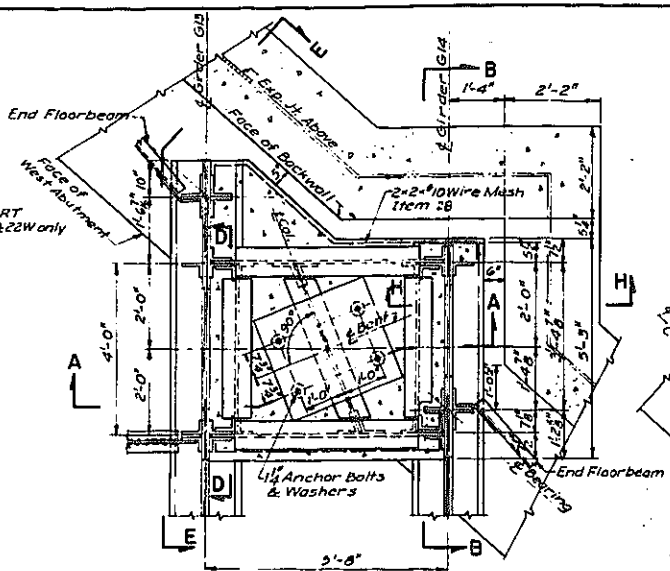
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-276-149		46	139

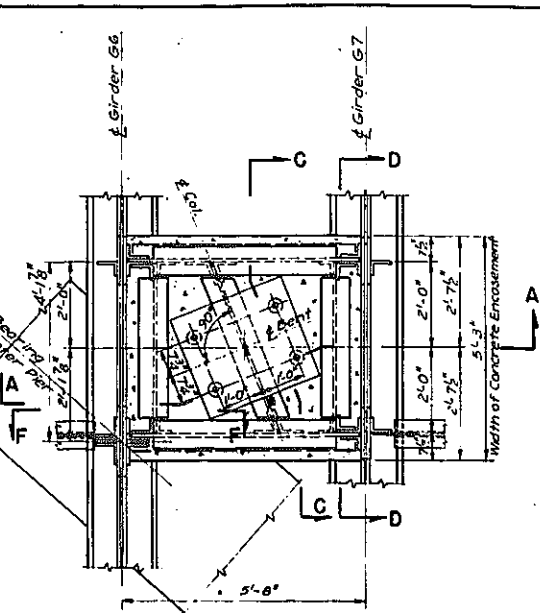
GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



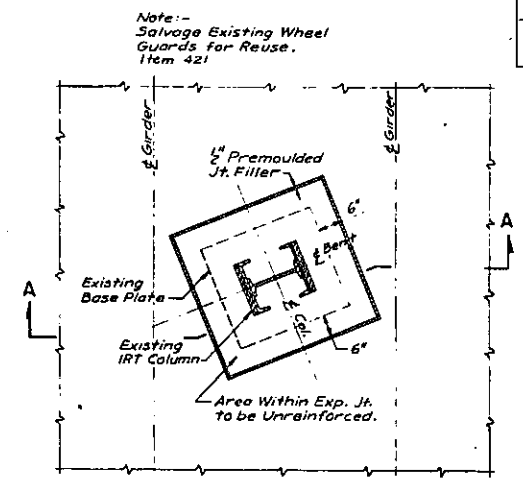
PLAN
IRT COLUMNS 19E, 21E, 21W & 22W



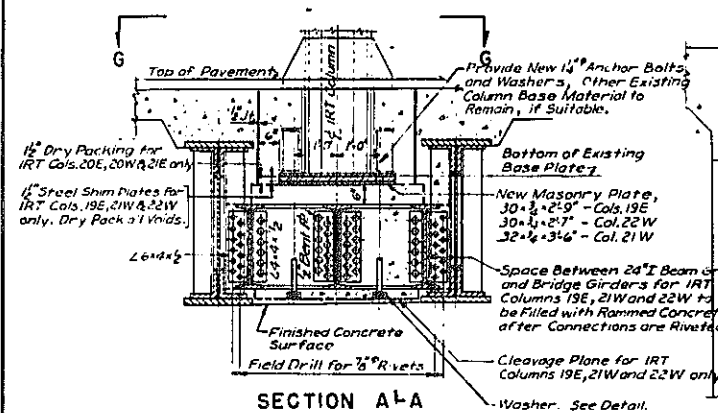
PLAN
IRT COLUMN 20W



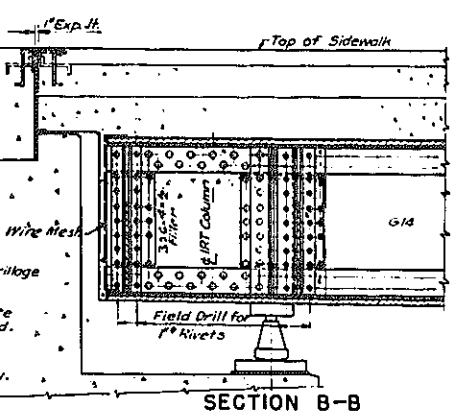
PLAN
IRT COLUMN 20E



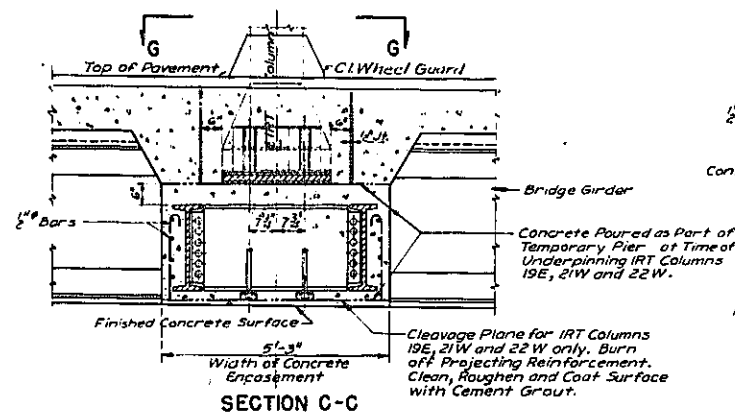
PLAN G-G



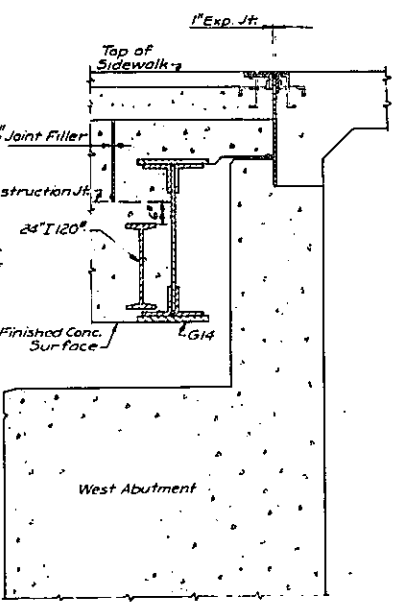
SECTION A-A



SECTION B-B

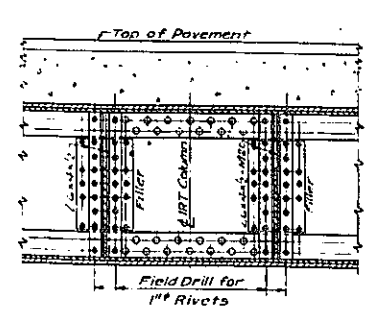


SECTION C-C

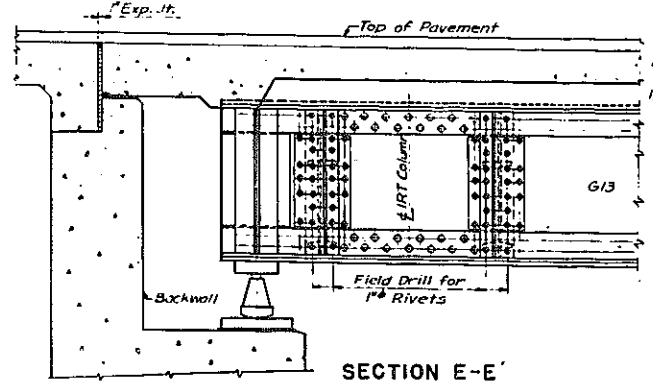


SECTION H-H

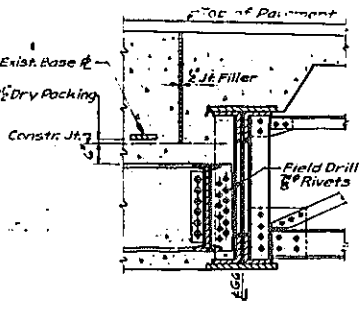
NOTES:
1 The column base, wheel guard, and anchor bolts of the IRT columns shall be at least 4" clear of the structural steel S bar reinforcement of the bridge.
2 If wheel guards are damaged, new wheel guards shall be furnished and installed by contractor at no additional cost. Details of reinforcement wheel guard shall be approved by N.Y. City Transit Authority.



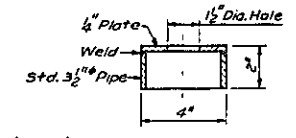
SECTION D-D



SECTION E-E



SECTION F-F



DETAIL OF WASHER
Scale: 1/4" = 1'-0"

REFERENCES:

	Sheet No.
Framing Plan	45
Underpinning - Plan & Sections	47
General Notes for IRT Column Underpinning	75
General Plan and additional references	40

Rev
In charge of S. Roos D.O.B.
Made by S.H. Diskin P.P.
Traced by S.H. Diskin P.P.
Checked by S. Roos FXW
Lawrence Brown

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

UNDERPASS AT WESTCHESTER AVENUE

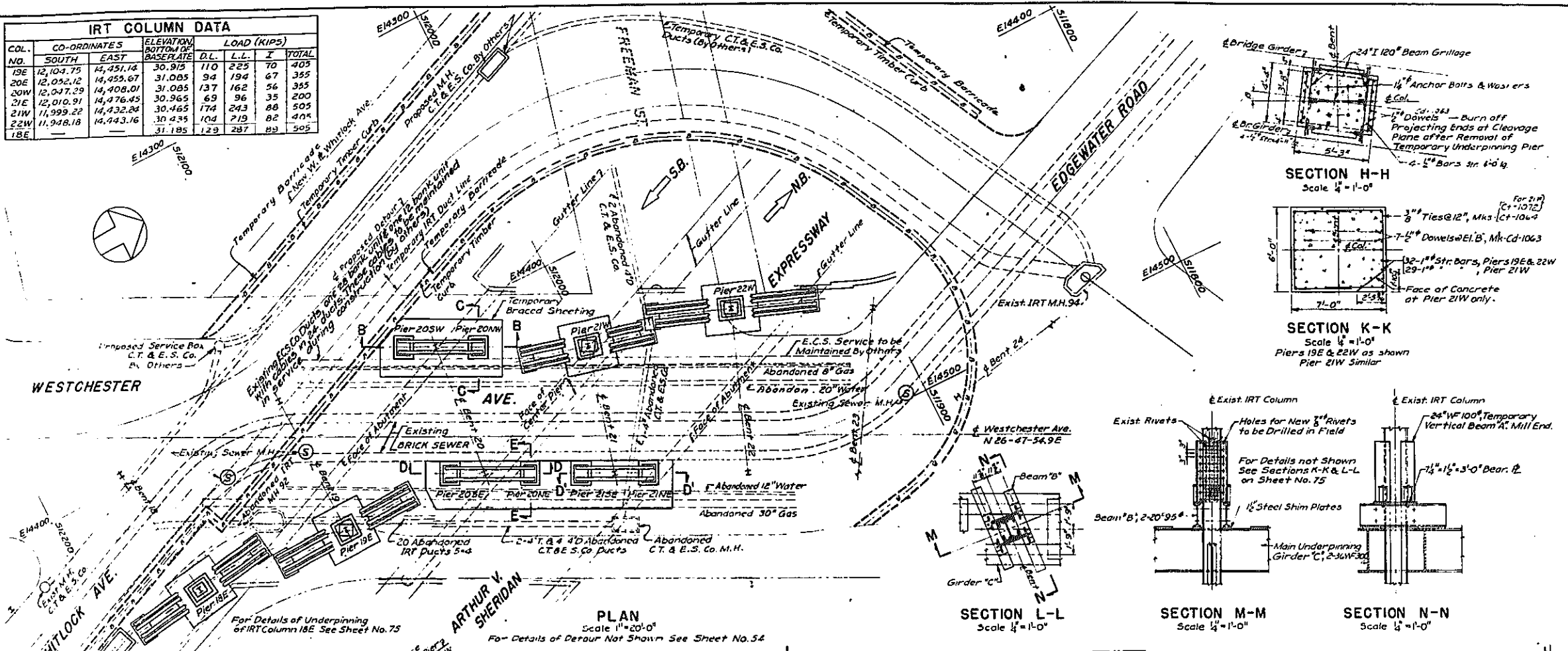
STRUCTURAL STEEL DETAILS

DWG. P42	SCALE 1/2" = 1'-0"	DATE JUNE 30, 1947	SHEET NO. 46
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CLARKE B. RAPUANO ENGINEERS
NEW YORK, N. Y.



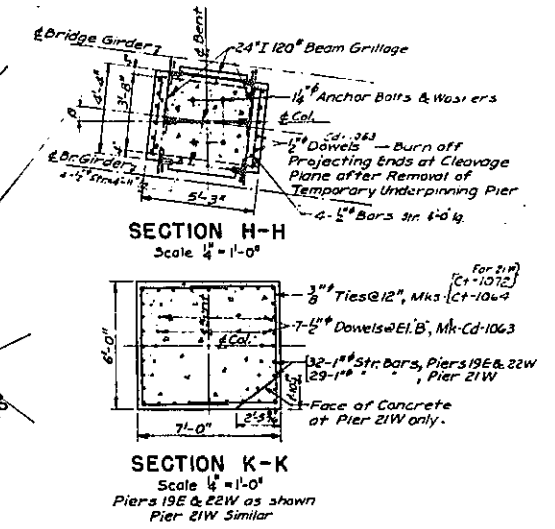
IRT COLUMN DATA							
COL. NO.	CO-ORDINATES SOUTH	EAST	ELEVATION BOTTOM OF BASEPLATE	DL.	LL.	I TOTAL	
19E	12,104.75	14,451.14	30.915	110	225	70	405
20E	12,052.12	14,455.67	31.085	94	194	67	355
20W	12,047.29	14,408.01	31.085	137	162	56	355
21E	12,010.91	14,476.45	30.965	69	96	35	200
21W	11,999.22	14,432.24	30.465	174	243	88	505
22W	11,948.18	14,443.16	30.435	104	219	82	404
18E			31.185	129	287	89	505



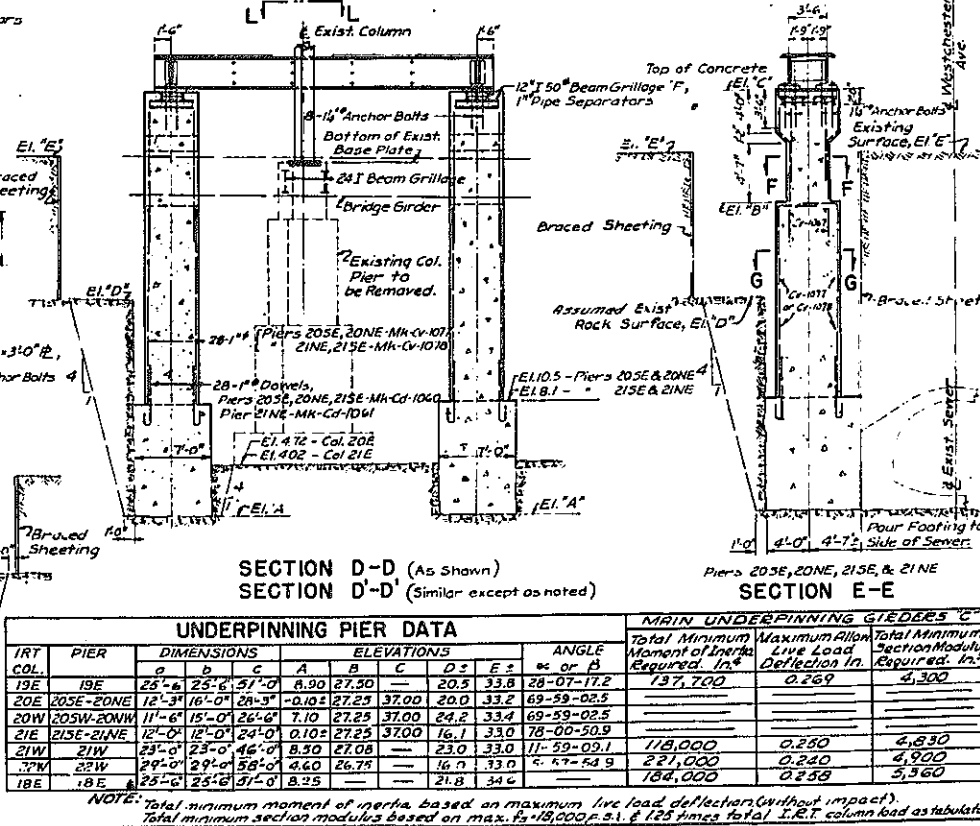
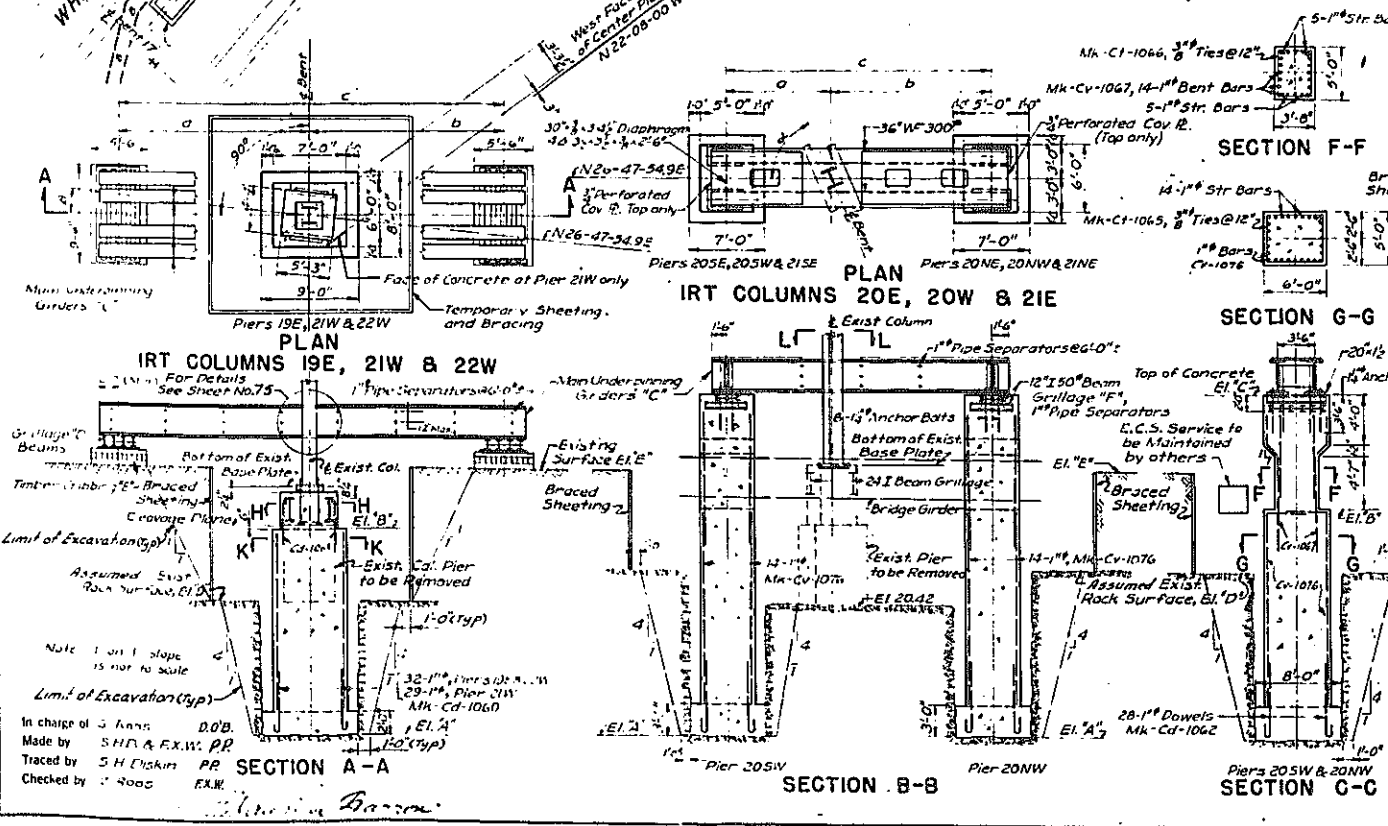
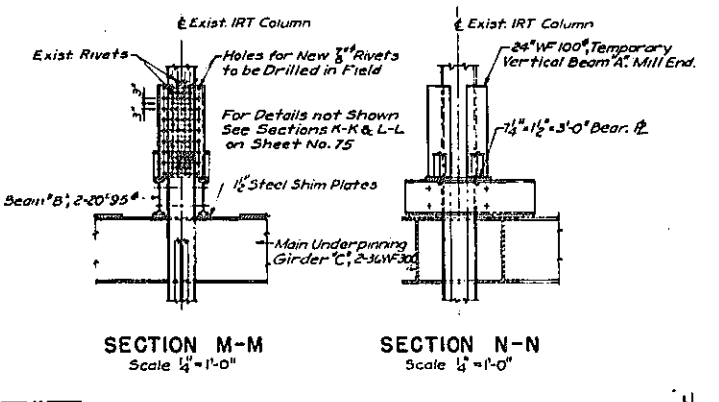
FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	ET-276-(65)		47	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

- ### PROCEDURE FOR UNDERPINNING IRT COLUMNS 19E, 21W & 22W
1. to 3. As same as procedure for underpinning IRT column 18E shown on Sheet No. 75
 4. Excavate sheeted pit to the bottom of the column pier. Remove the existing column pier. Excavate pit to subgrade of temporary underpinning pier.
 5. Construct the temporary concrete underpinning pier, providing a cleavage plane below the 24" I beam grillage.
 6. Transfer the IRT column load to the temporary underpinning pier by means of jacks. Insert steel shim plates between the existing column base plate and a new 3/4" masonry plate.
 7. Remove all temporary beams, girders, cribbing, etc. above the street surface. Fill all holes in the column.
 - 8a. Completely construct the bridge, including the wearing course for the roadway and sidewalk, except the area around the column.
 9. Field drill 1 1/2" diameter holes in the bridge girder web to match open holes in the 24" I beam grillage, and rivet. 10. Fill with rammed concrete the space between the bridge girder and the 24" I beam grillage.
 11. Transfer the IRT column load to the bridge structure by means of jacks. Adjust the thickness of the steel shim plates between the existing base plate and the new 3/4" masonry plate.
 12. Remove the temporary underpinning pier below the cleavage plane.
 13. Adjust the column to its present elevation by means of jacks.
 14. Adjust the thickness of the shim plates back all voids.
 15. Burn off all reinforcement projecting below the cleavage plane and apply cement grout.
 16. Complete construction in the area around the column.



- ### PROCEDURE FOR UNDERPINNING IRT COLUMNS 20E, 20W & 21E
1. Rivet vertical beams "A" and perforated filler plates to the column flanges.
 2. Excavate sheeted pit to the top of existing rock. Excavate rock pit to subgrade of new temporary concrete underpinning pier. Construct the concrete piers and place grillage "F".
 3. Place main underpinning girders "C" and beams "B". Transfer the column load to girders "C" by means of jacks. Insert steel shim plates between beams "B" and girders "C".
 4. Remove existing column pier.
 5. Completely construct the bridge, including the wearing course for the roadway and sidewalk, except the area around the IRT column and the temporary underpinning pier.
 6. Field drill 1 1/2" dia. holes in the bridge girder web to match open holes in the 24" I beam grillage, and rivet.
 7. Pour the concrete encasement of 24" I beam grillage.
 8. Transfer the IRT column load to the bridge structure by means of jacks, and dry packing between the existing base plate and the top of the concrete encasement.
 9. Remove all temporary beams, girders, cribbing, sheeting, etc. Fill all holes in the column with rivets.
 10. Remove the temporary concrete underpinning pier.
 11. Complete construction in the area around the column and the temporary underpinning pier.
 12. The 1/4" vertical batter of the rock excavation, shown in Sections B-B and D-D, may be changed if the rock under the existing IRT column pier is found to be rotten, seamy, or sloping away from the existing pier.
 - 13a. Shim plates between beams "B" and girders "C" shall be tack welded to beams.



NOTES:
All work on this sheet, except Structural Steel and Concrete which are part of the permanent structure, shall be paid for according to Item No. 121 - Underpinning of I.R.T. Division Elevated Railroad Columns.

REFERENCES:
General Notes for IRT Column Underpinning - Sheet No. 75
Structural Steel Details - 46
General Plan and additional references - 40

For Details of Underpinning Built for this Contract see D.K.s. Nos. 15E-13614

IRT COL.	PIER	DIMENSIONS			ELEVATIONS			ANGLE α or β	MAIN UNDERPINNING GIRDERS "C"				
		A	B	C	A	B	C		Total Minimum Moment of Inertia Required, In. ⁴	Maximum Allow. Live Load Deflection in.	Total Minimum Section Modulus Required, In. ³		
19E	19E	25'-4"	25'-6"	5'-7"	8.90	27.50	—	20.5	33.8	28-07-17.2	137,700	0.269	4,300
20E	20E-20NE	12'-3"	16'-0"	24'-7"	-0.02	27.25	37.00	20.0	33.2	69-59-02.5	—	—	—
20W	20SW-20NW	11'-6"	15'-0"	24'-7"	7.10	27.25	37.00	24.2	33.4	69-59-02.5	—	—	—
21E	21E-21NE	12'-0"	12'-0"	24'-0"	0.02	27.25	37.00	16.1	33.0	78-00-50.9	—	—	—
21W	21W	23'-0"	23'-0"	46'-0"	8.50	27.08	—	23.0	33.0	11-59-09.1	118,000	0.260	4,630
22W	22W	29'-0"	29'-0"	58'-0"	4.60	26.75	—	16.7	33.0	5-57-54.9	221,000	0.260	4,900
18E	18E	25'-0"	25'-0"	31'-0"	8.25	—	—	21.8	34.6	—	184,000	0.269	5,960

NOTE: Total minimum moment of inertia based on maximum live load deflection (without impact).
Total minimum section modulus based on max. live load deflection (without impact) I.R.T. column load as tabulated.

CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

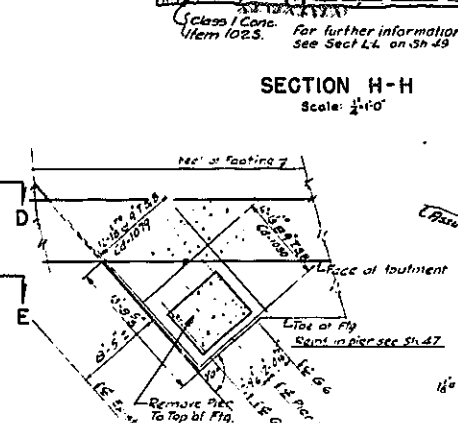
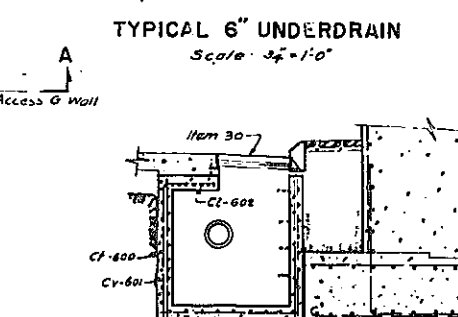
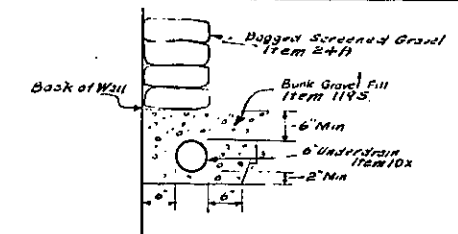
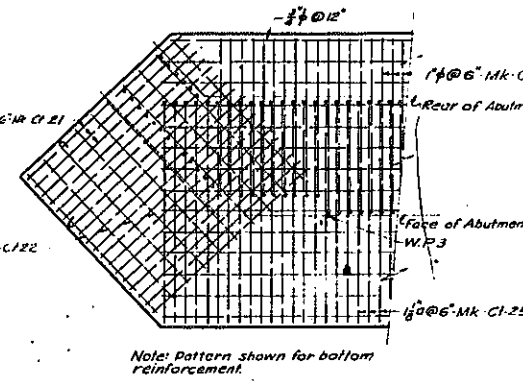
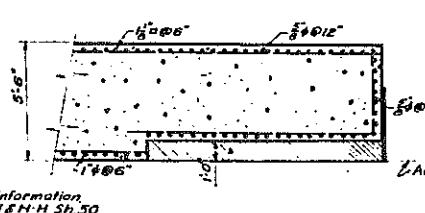
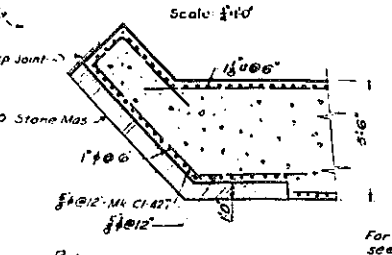
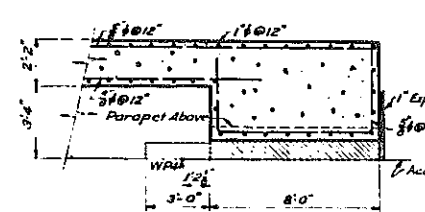
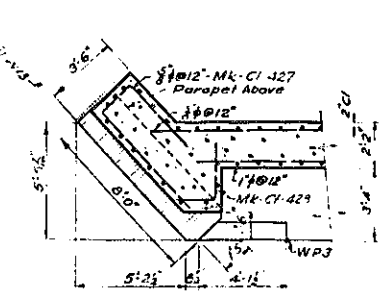
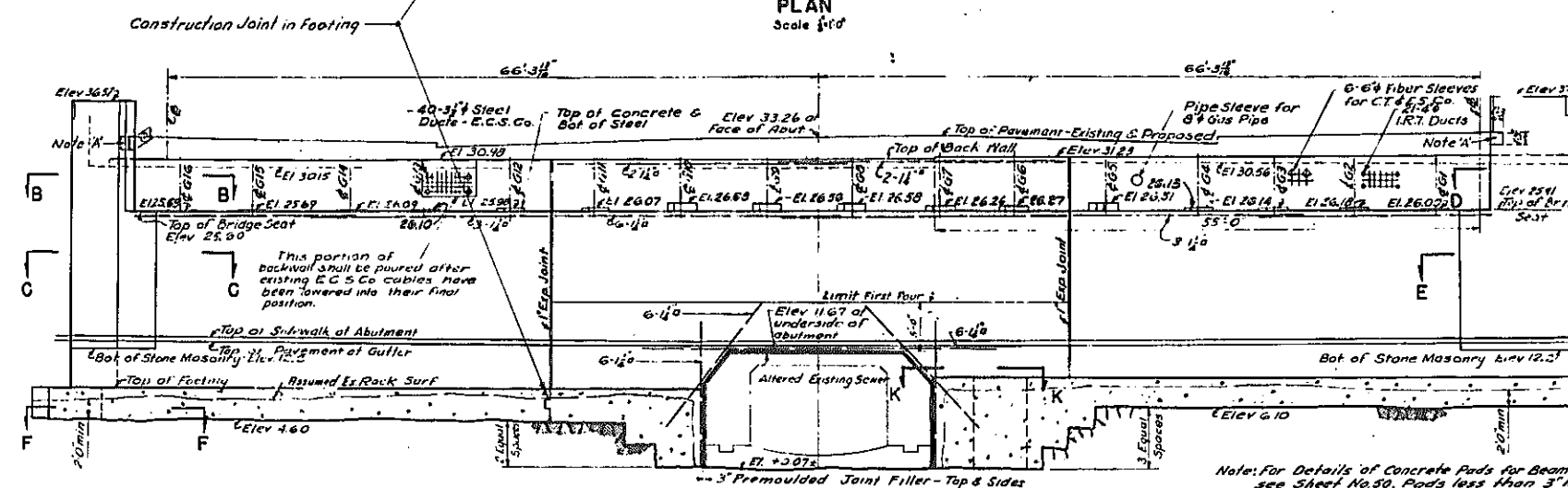
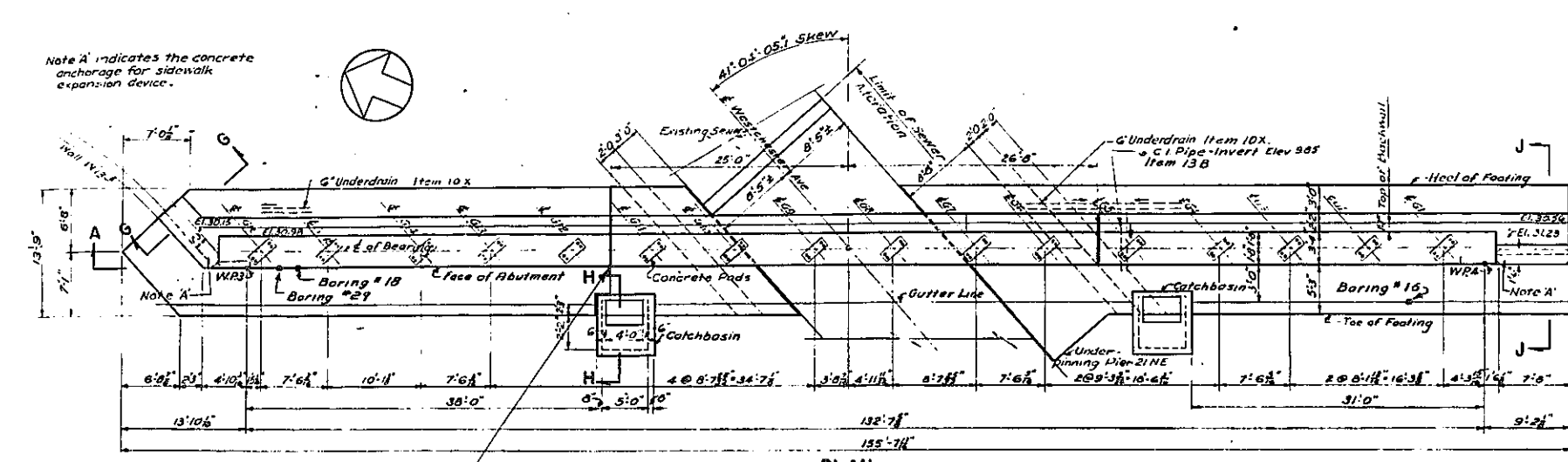
UNDERPASS AT WESTCHESTER AVENUE

UNDERPINNING - PLAN & SECTIONS

DWG. NO.	SCALE	DATE	SHEET NO.
P42A	AS SHOWN	JUNE 30, 1947	47

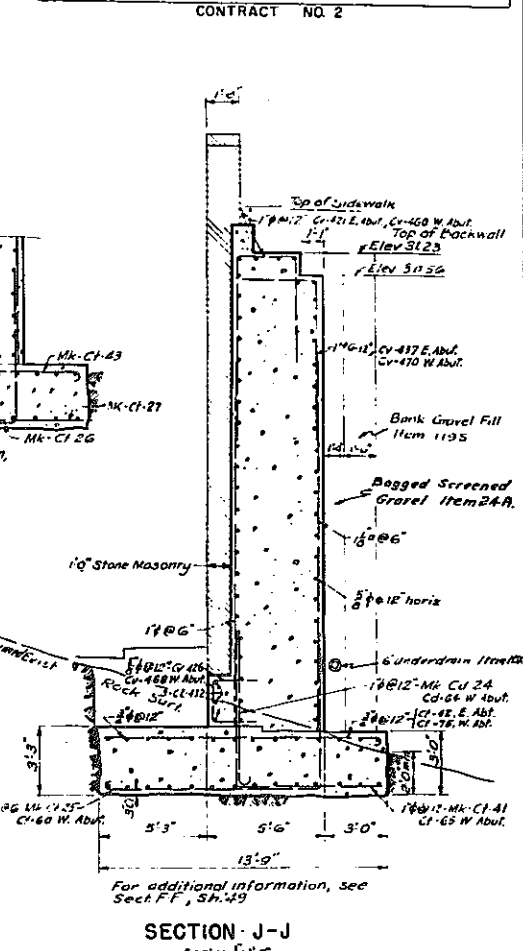
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Note A indicates the concrete anchorage for sidewalk expansion device.



FED RD DIV NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
1	N Y	E-218-1(4)		48	139

GRADING, DRAINAGE STRUCTURES UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST TO E. TREMONT AVE.
CONTRACT NO. 2



- NOTES:**
- All concrete - Item No. 185, except as noted.
 - Fill bar reinforcement - Item No. 28.
 - For details of payment lines for Item 55 see Sheet No. 7. For footings in rock, concrete shall be poured to face of rock as cut.
- REFERENCES:**
- | Reference | Sheet No |
|--------------------------------------|----------|
| Alteration of Existing Sewer | 51 |
| Framing Plan & Structural Details | 49 |
| Underpinning - Plan & Sections | 47 |
| General Plan & Additional References | 40 |

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Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVENUE
EAST ABUTMENT

DWG. NO.	SCALE	DATE	SHEET NO.
P43	AS SHOWN	JUNE 30, 1947	48

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In charge of
Made by
Traced by
Checked by

Rev
D.O.B.
H. Levenson P.X.M.
H. Levenson R.P.
S. Roos F.A.W.

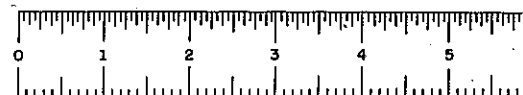
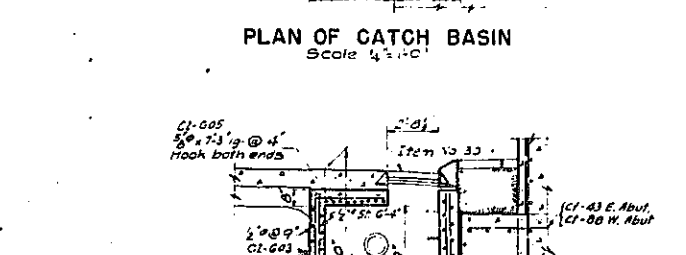
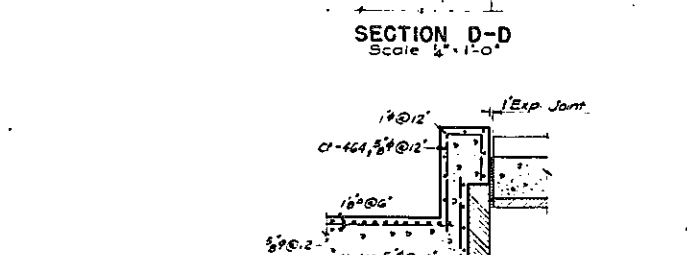
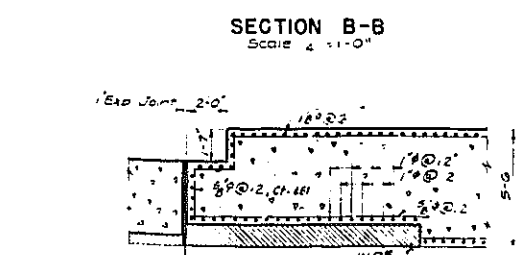
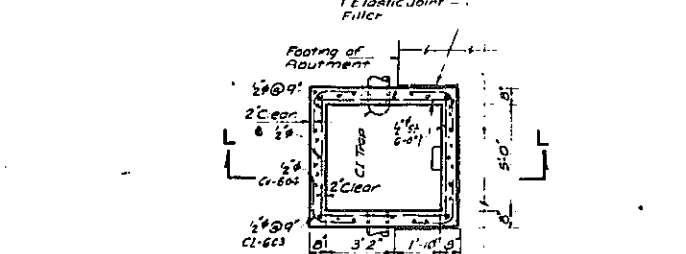
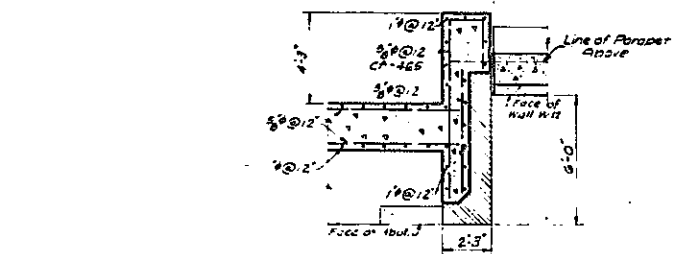
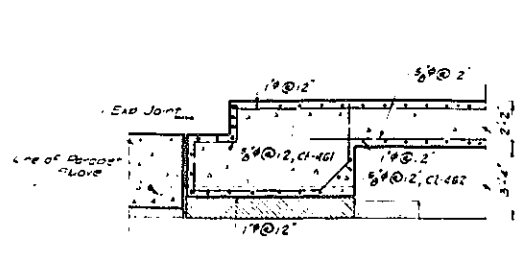
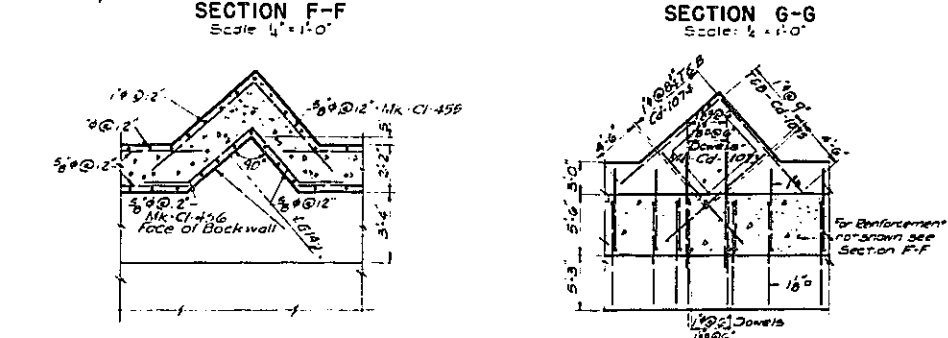
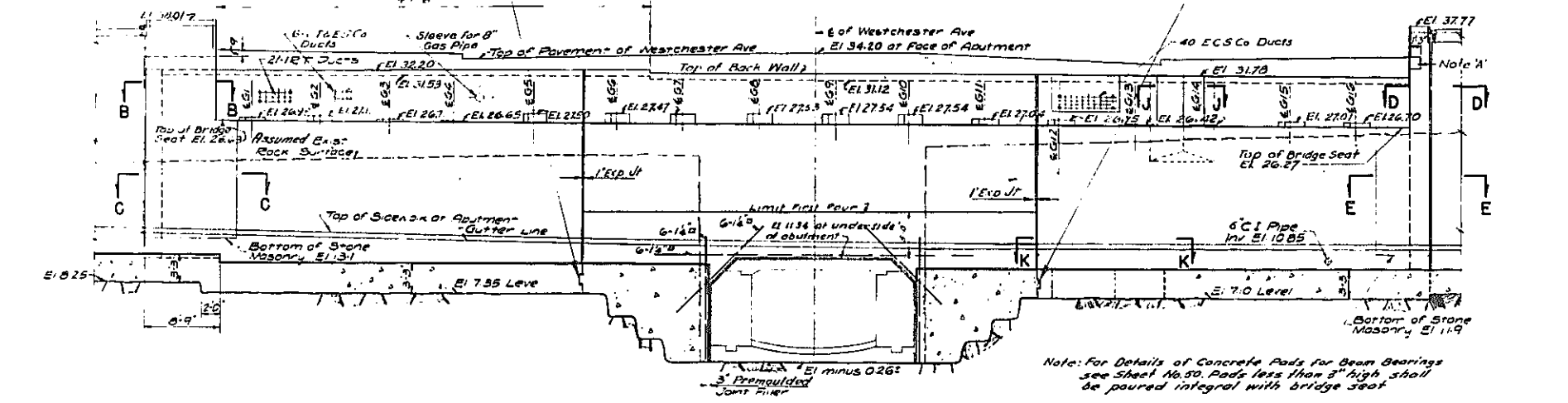
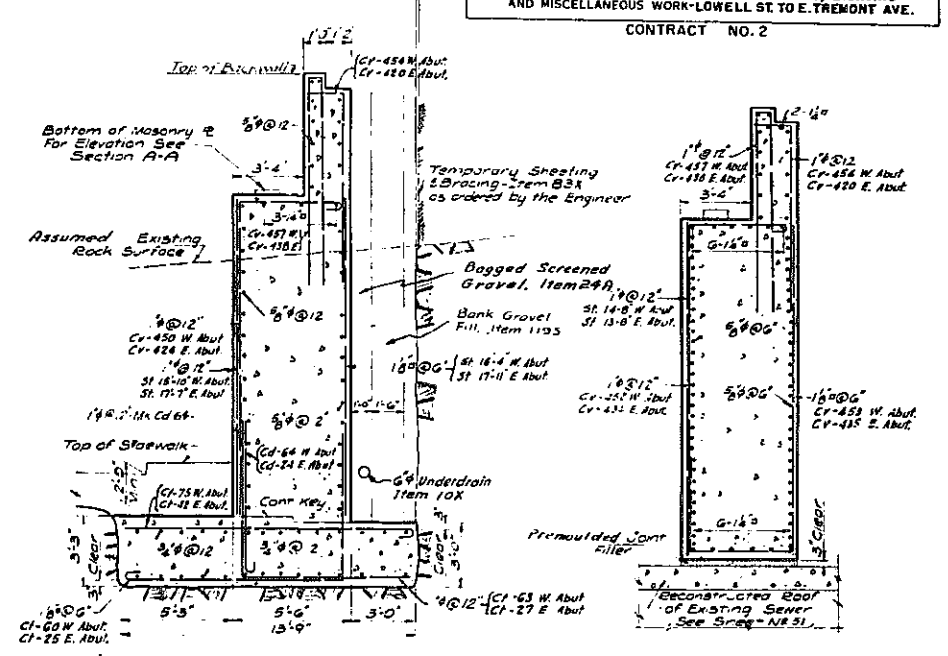
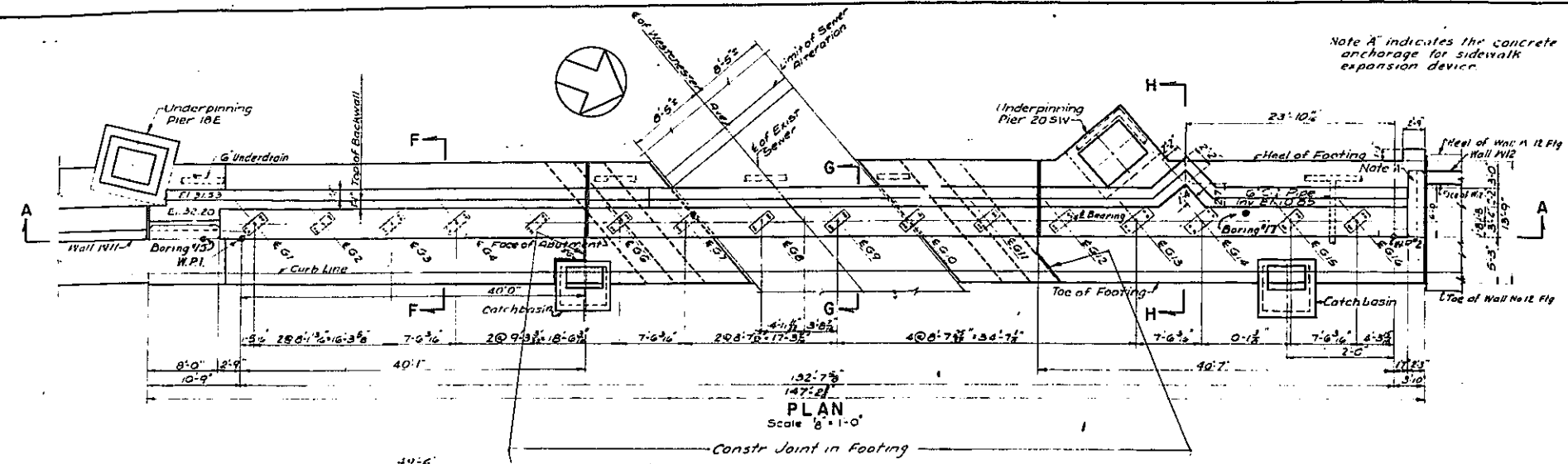


PLATE 60-1

FED RD DIV NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
1	N. Y.	EI-27B-49		49	139

GRADING DRAINAGE STRUCTURES UTILITIES PAVING LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



Rev
In charge of S. Ross D.O.B.
Made by H. Anderson F.X.M.
Traced by D. Dras P.P.
Checked by S. Ross F.X.M.

NOTES:
1- All concrete - Item 185 except as noted
2- All bar reinforcement - Item 26.
3- See Note 3 on Sheet No. 48.

REFERENCES:

Item	Sheet No.
Alteration of Existing Sewer	51
Framing Plan & Structural Details	43
Underpinning - Plan & Sections	47
Underpinning at Wall Will	75
General Plan & Additional References	40

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ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVENUE
WEST ABUTMENT

DWG. NO.	SCALE	DATE	SHEET NO.
244	AS SHOWN	JUNE 30, 1947	49

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NEW YORK, N. Y.

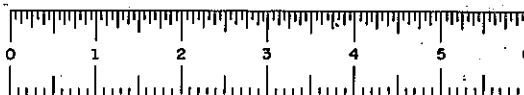
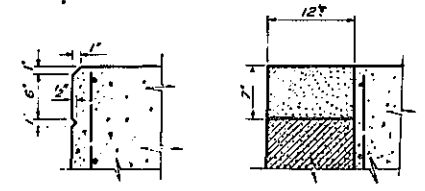
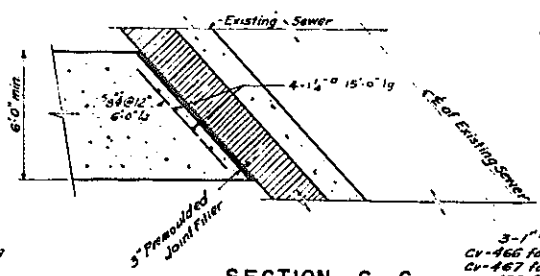
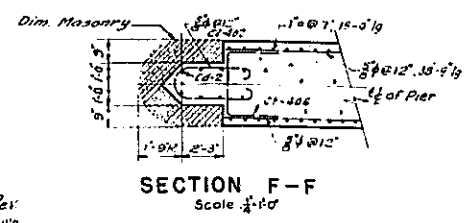
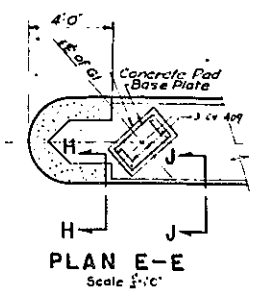
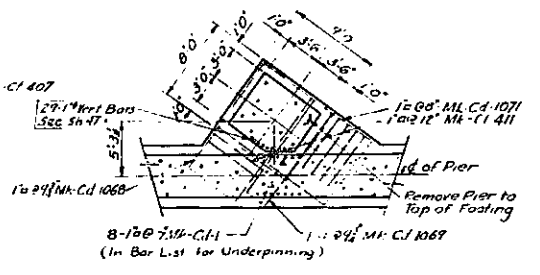
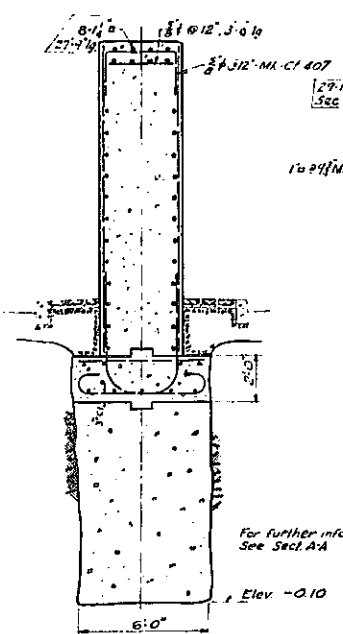
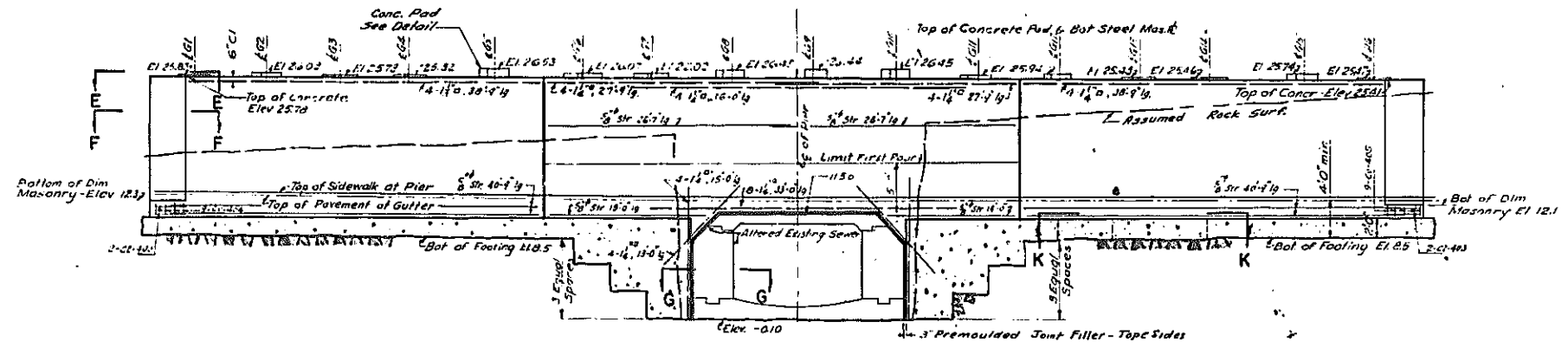
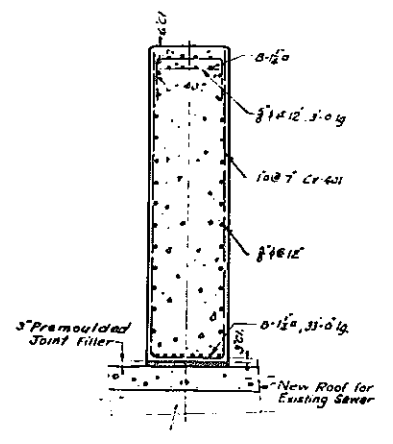
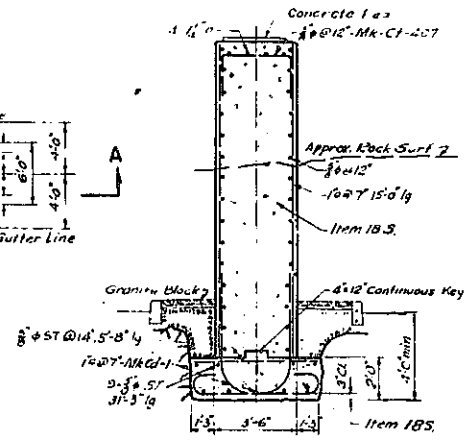
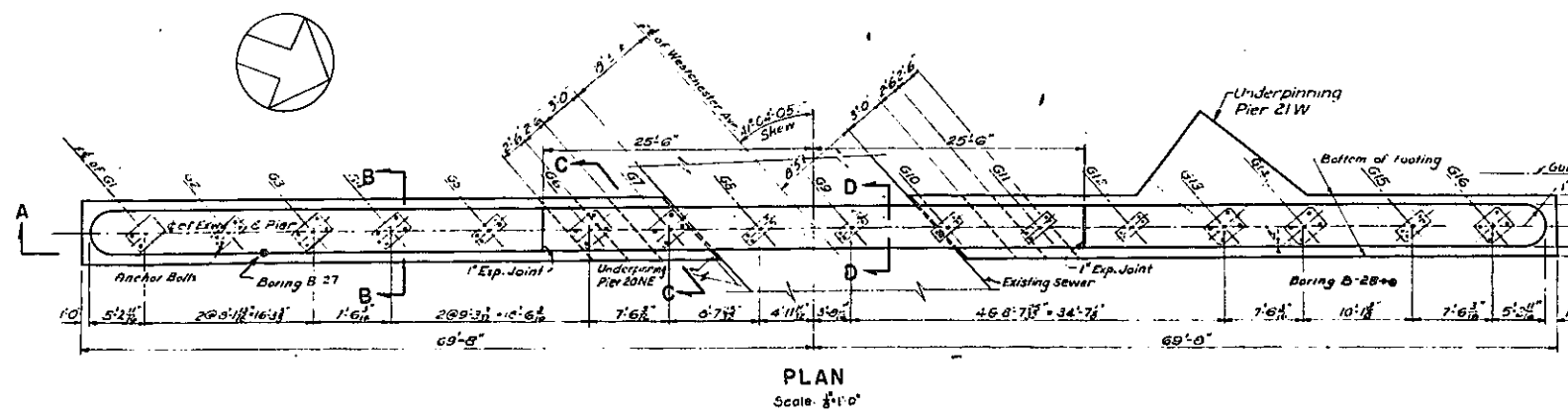


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL-278-104		50	139

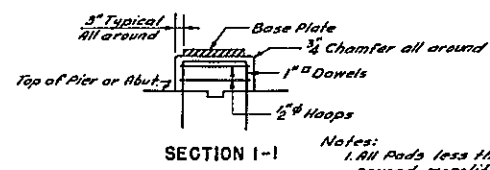
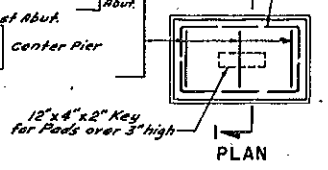
GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



Pad Height	No. of Hoops
Less than 3'	0
3'-6"	1
6'-9"	2
9'-12"	3

3-1" Dowels
 CV-466 for E200, E150 E125 & E100 Shoes West Abut.
 CV-467 for E300 Shoes East Abut.
 CV-433 for all Shoes - East Abut.
 CV-408 for F300 Shoes Center Pier
 CV-409 for F450 Shoes
 CV-410 for F600 Shoes

1/2" Hoops @ 3" Spacing
 CI-411 for F300 Shoes
 CI-412 for F450 Shoes
 CI-413 for F600 Shoes
 CI-441 for E100 & E125 Shoes
 CI-442 for E150 Shoes
 CI-443 for E200 Shoes



Notes:
 1. All Pads less than 3' high to be poured monolithic with Pier or Abutment Bridge Seat.
 2. Top of Pads shall be poured 1/2" higher than required and bush hammered to exact elevation.

NOTES
 1 - All concrete - Item NE 185.
 2 - All bar reinforcement - Item No. 28.
 3 - See Note 3 on Sheet No. 48.

REFERENCES:
 Alteration of Existing Sewer - Sheet No. 51
 Framing Plan & Structural Details - 49
 Underpinning - Plan & Sections - 47
 General Plan & Additional References - 40

In charge of S. Roos DUB
 Made by H. Lenson FAM
 Traced by H. Lewinson RP
 Checked by S. Roos FKW

Rev. 12-2-57
 Arthur V. Sheridan Expressway

CORRECT AS BUILT
 Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVENUE
CENTER PIER

DWG. P-45	SCALE AS SHOWN	DATE JUNE 30, 1947	SHEET NO. 50
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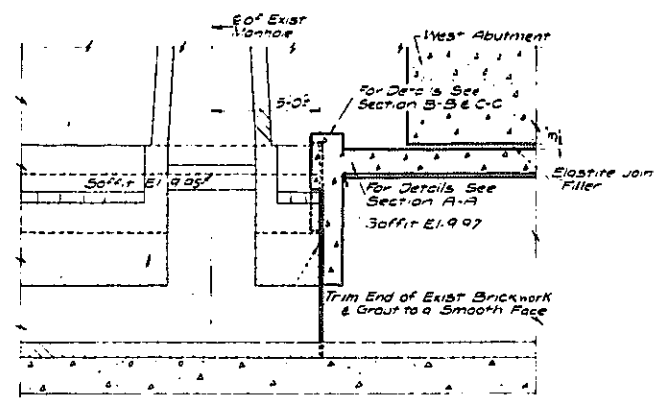
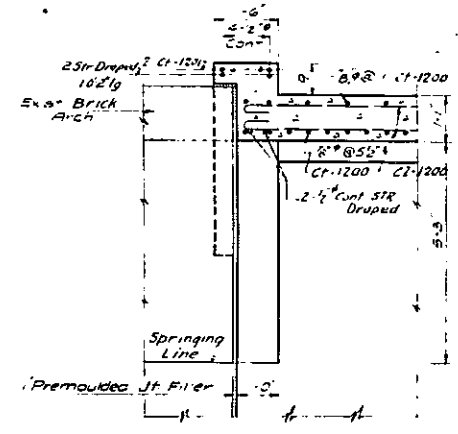
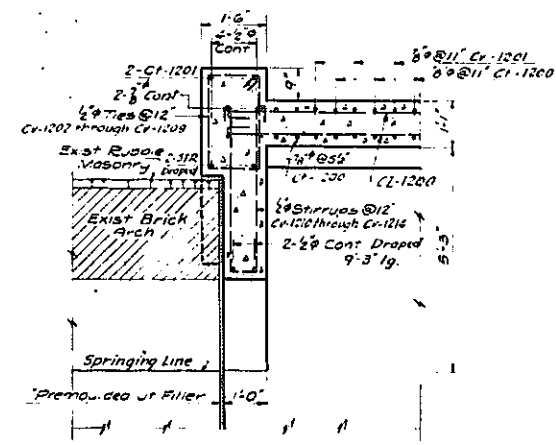
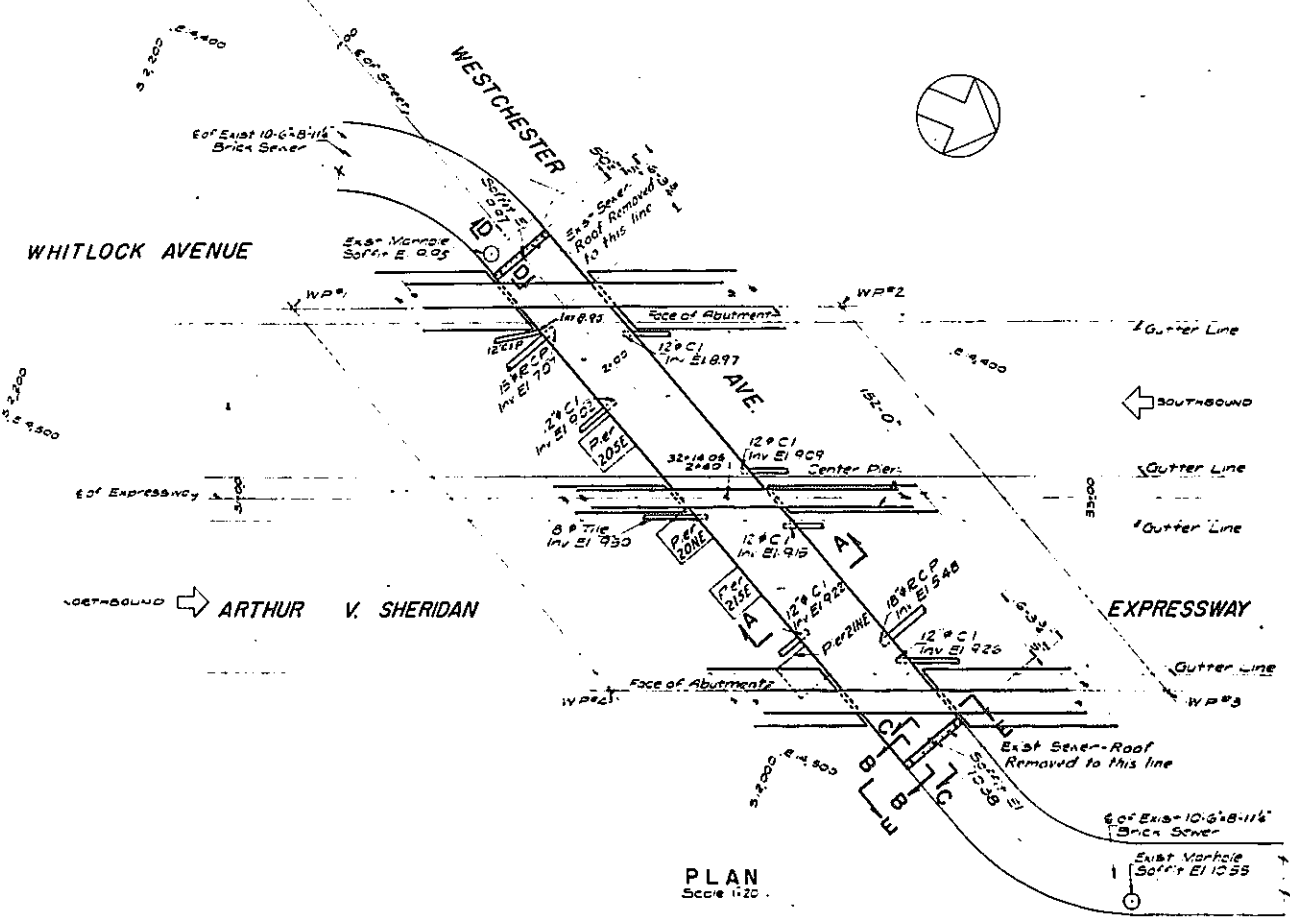
CLARKE & RAPUANO ENGINEERS
 NEW YORK, N. Y.



PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E.I.-278-403		51	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

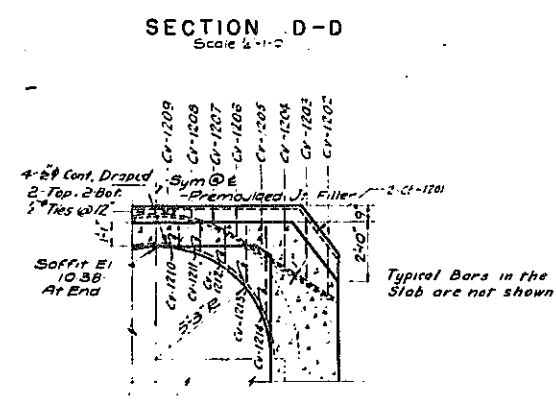
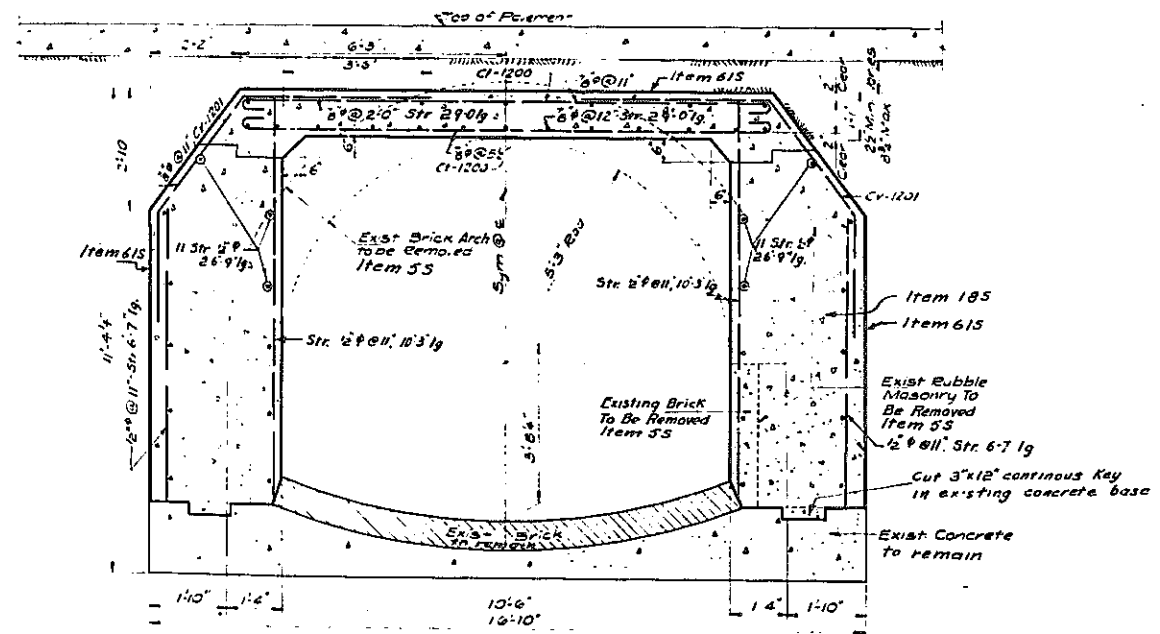


LEGEND:

- New Construction
- - - Existing Construction to Remain
- Existing Construction to be Removed

NOTES:

- All dimensions and existing conditions must be verified in the field.
- All construction shall be subject to the inspection and approval of the Chief Engineer of the Borough of the Bronx.
- Concrete shall be Item No 185.
- Bar Reinforcement - Item No 28.



REFERENCES:

	Sheet No.
East Abutment	48
West Abutment	49
Center Pier	50
General Plan & Additional References	40

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Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY			
UNDERPASS AT WESTCHESTER AVENUE			
ALTERATION OF EXISTING SEWER			
DWG. P. 47	SCALE AS SHOWN	DATE JUNE 30, 1947	SHEET NO. 51
CLARKE & RAPUANO			ENGINEERS
NEW YORK, N. Y.			

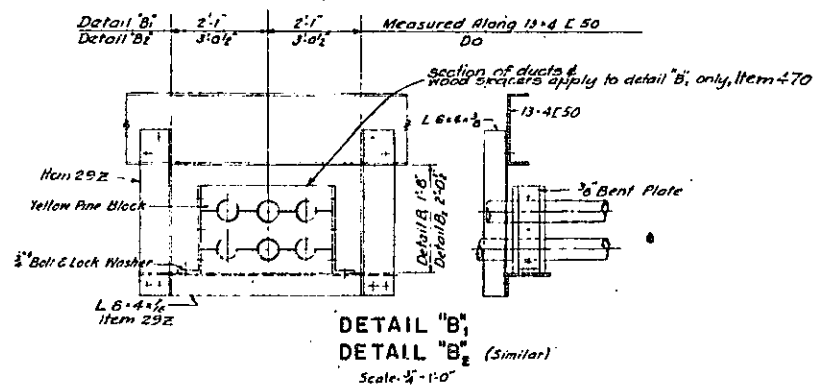
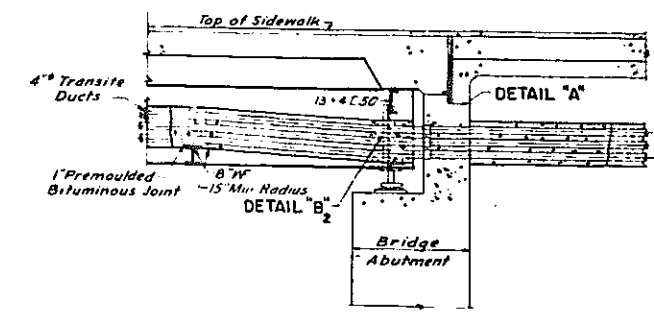
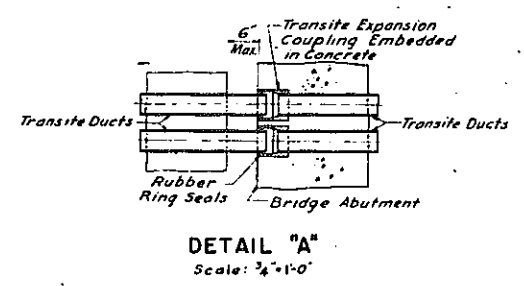
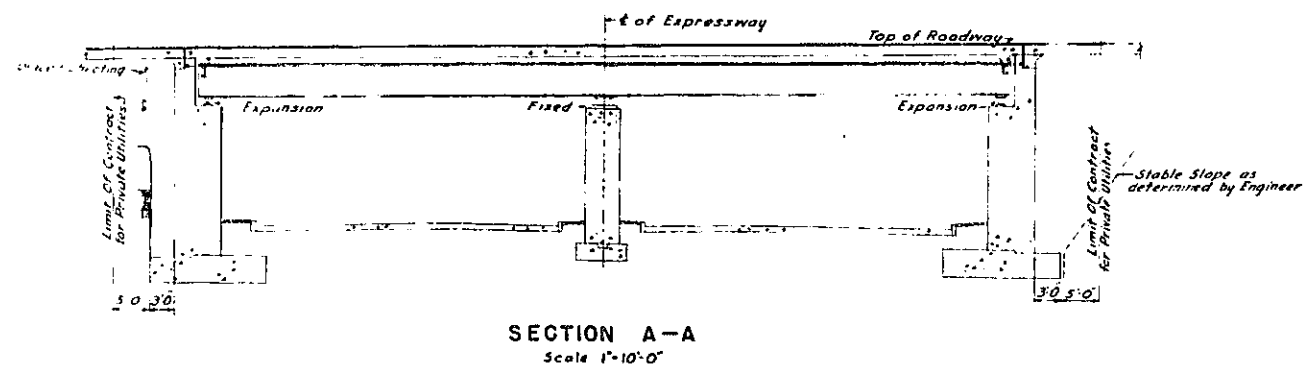
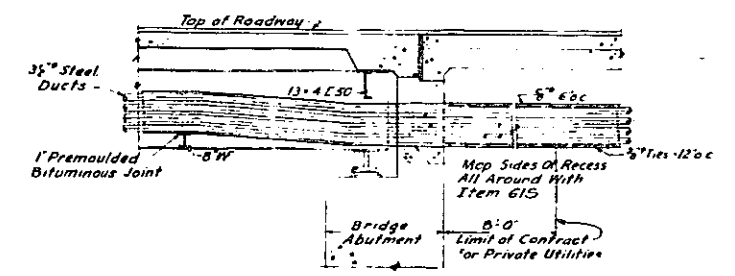
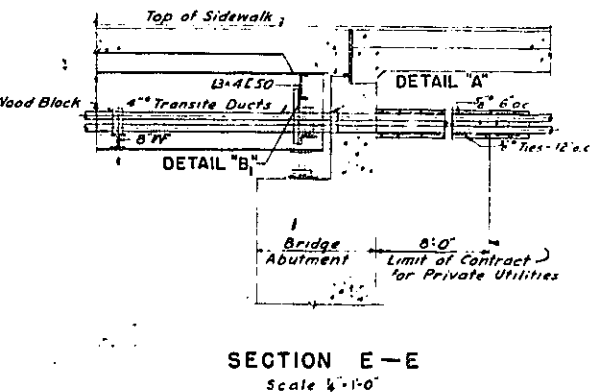
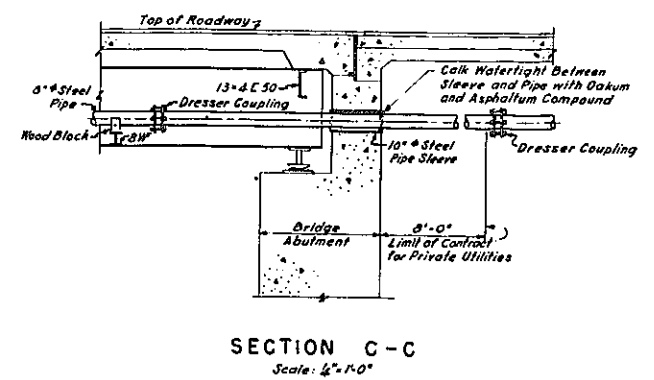
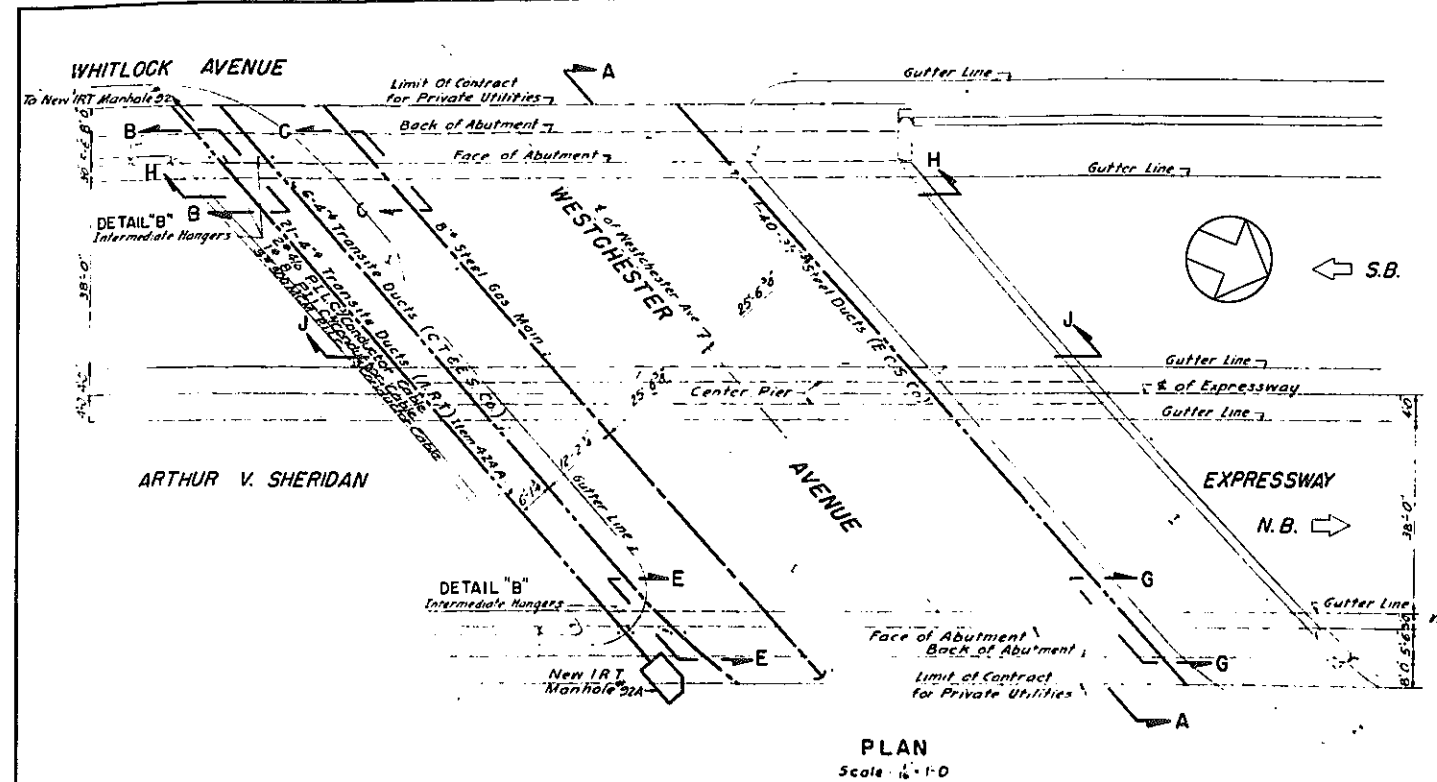
Rev.
In charge of S. E. ROOS, D.O.B.
Made by M. E. L. S. R.P.
Traced by D. TORRES, R.P.
Checked by S. E. ROOS, F.R.W.



PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EL-278(49)		52	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST TO E. TREMONT AVE.
CONTRACT NO. 2



NOTES
Pipe, ducts and other specified equipment of Private Utility Systems (E.C.S. Co., C.T.R.E.S. Co. & C.E. Co.) will be furnished by the owning company but installed by the contractor. The cost of installation shall be paid for under Item 470, 471 & 472.

REFERENCES:

Section	Sheet No.
Sections H-H and J-J	53
Utilities - Details & Sections	54
Utility & Detail Plan	54
IRT Cable Installation	55
General Plan & Additional References	50

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In charge of S. Roos
Made by M. Trager
Traced by H. Trager
Checked by S. Roos

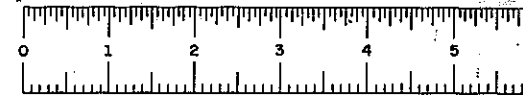
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Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVENUE
UTILITIES-PLAN & SECTIONS

DWG. NO.	SCALE	DATE	SHEET NO.
P48	AS SHOWN	JUNE 30, 1947	52

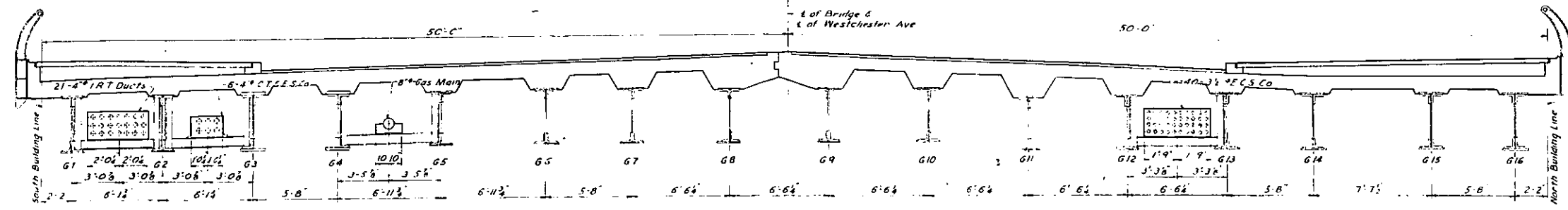
CLARKE & RAPUANO
NEW YORK, N. Y. ENGINEERS



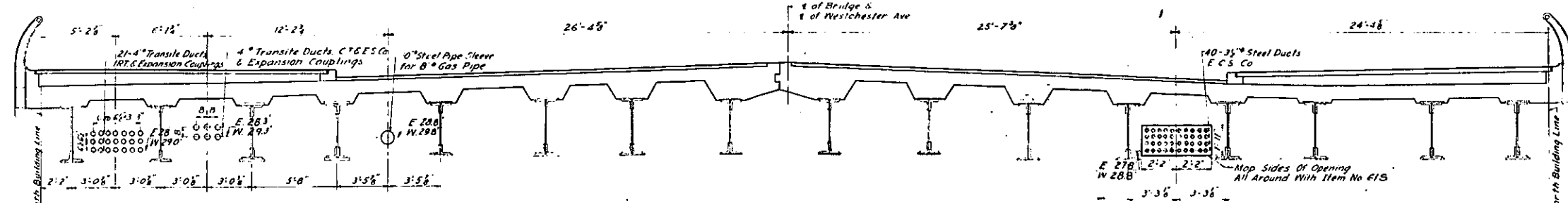
PHASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	ET-278(46)		53	139

GRADING, DRAINAGE STRUCTURES UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

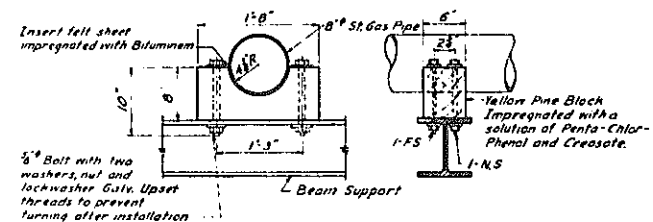


SECTION J-J
Scale 1/4"=1'-0"

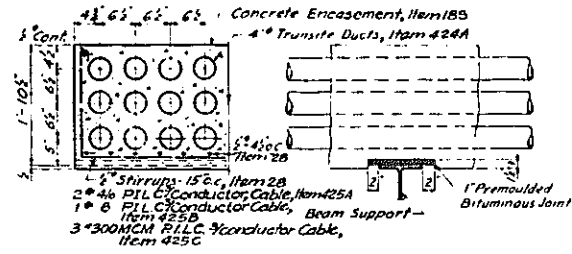


SECTION H-H
Scale 1/4"=1'-0"

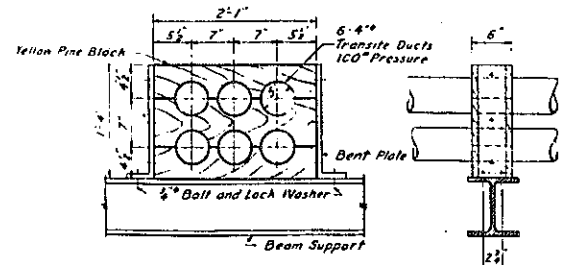
Elevations at East Abutment Designated by E
Elevations at West Abutment Designated by W



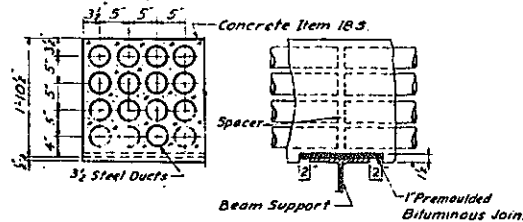
SUPPORT DETAIL FOR GAS PIPE
CONSOLIDATED EDISON CO.
Scale 1"=1'-0"



SUPPORT DETAIL
INTERBOROUGH RAPID TRANSIT
Scale 3/4"=1'-0"



SUPPORT DETAIL FOR CONSOLIDATED
TELEGRAPH & ELECTRIC, SUBWAY CO.
Scale 1"=1'-0"



SUPPORT DETAIL
EMPIRE CITY SUBWAY CO.
Scale 3/4"=1'-0"

NOTES:
Pipe, Ducts and other Specified Equipment of the Private Utility Systems C.T.E.S.Co., E.C.S.Co., E.C.E.Co. will be furnished by the Owning Company. The cost of the installation shall be paid for under Item 470, 471 & 472.

REFERENCES:

	Sheet No.
Location of Sections H-H and J-J	52
Utility - Plan and Sections	52
Utility & Detour Plan	54
IRT Cable Installation	55
General Plan & Additional References	40

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Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY			
UNDERPASS AT WESTCHESTER AVENUE			
UTILITIES - DETAILS AND SECTIONS			
DWG. P. 49	SCALE AS SHOWN	DATE JUNE 30, 1947	SHEET NO. 53
CLARKE & RAPUANO		ENGINEERS	
NEW YORK, N. Y.			

In charge of S. Roos Rev.
Made by H. Trager D.O.B.
Traced by H. Trager P.P.
Checked by S. Roos F.L.W.
Maurice P. ...



PLATE 60-1

CONTRACT NO. 2

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N. Y.	EL-278465		54	139

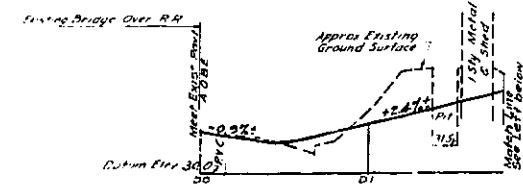
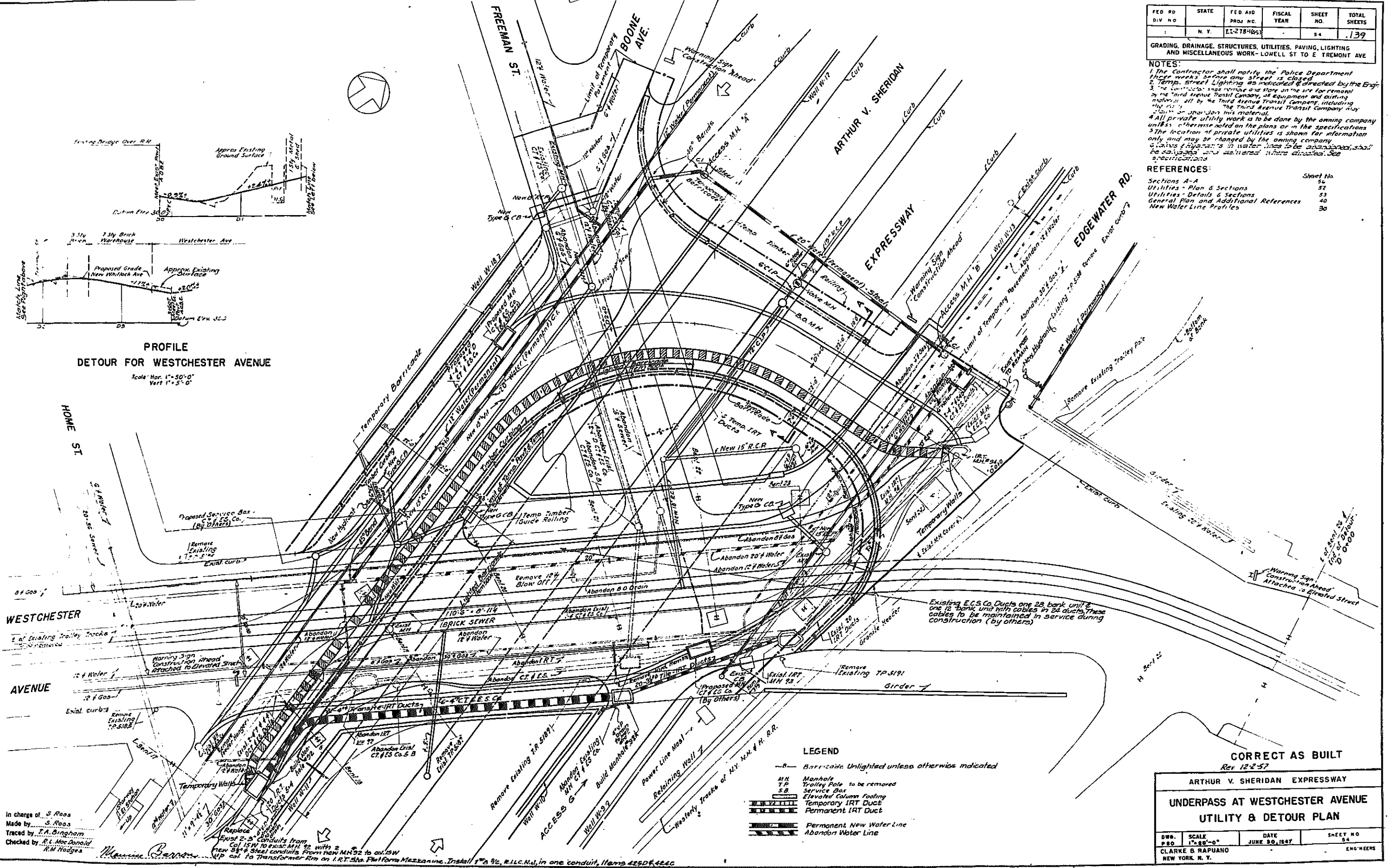
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST TO E TREMONT AVE

NOTES:

- The Contractor shall notify the Police Department three weeks before any street is closed.
- Temp. Street Lighting as indicated & directed by the Engineer.
- The Contractor shall remove and store on the site for removal by the Third Avenue Transit Company, all equipment and existing material, all by the Third Avenue Transit Company, including the 12" x 12" steel joists, the Third Avenue Transit Company may claim or abandon this material.
- All private utility work is to be done by the owning company unless otherwise noted on the plans or in the specifications.
- The location of private utilities is shown for information only and may be changed by the owning company.
- Utilities to be abandoned shall be abandoned and maintained where directed. See specifications.

REFERENCES:

Section	Sheet No.
Sections A-A	56
Utilities - Plan & Sections	57
Utilities - Details & Sections	53
General Plan and Additional References	40
New Water Line Profiles	30



PROFILE
DETOUR FOR WESTCHESTER AVENUE
 Scale: Hor. 1" = 50'-0", Vert. 1" = 5'-0"

LEGEND

- B- Barricade Unlighted unless otherwise indicated
- M.H. Manhole
- T.P. Trolley Pole to be removed
- S.B. Service Box
- Elevated Column Footing
- Temporary IRT Duct
- Permanent IRT Duct
- Permanent New Water Line
- Abandon Water Line

CORRECT AS BUILT
 Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

UNDERPASS AT WESTCHESTER AVENUE
UTILITY & DETOUR PLAN

DWB	SCALE	DATE	SHEET NO.
280	1" = 50'-0"	JUNE 30, 1947	54

CLARKE & RAPUANO
 NEW YORK, N. Y. ENG'NEERS

In charge of S. Roos
 Made by S. Roos
 Traced by F.A. Bingham
 Checked by R.L. McDaniel
 R.M. Hodges

Replace 2-3" Conduits from Ex. 15W to Ex. 15W with 2 new 3/4" Steel conduits from new M.H. 92 to ex. 15W. IP cal. to Transformer Rm. on I.R.T. Sta. Platform Mezzanine. Install 1" x 3/4" R.L.C. in one conduit, items 429D, 426C

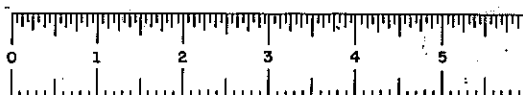
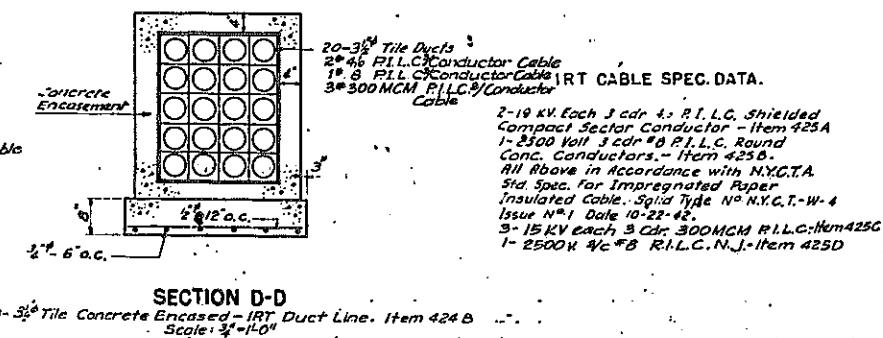
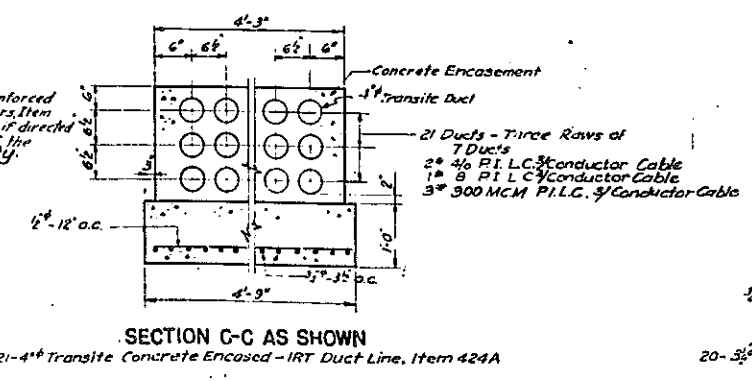
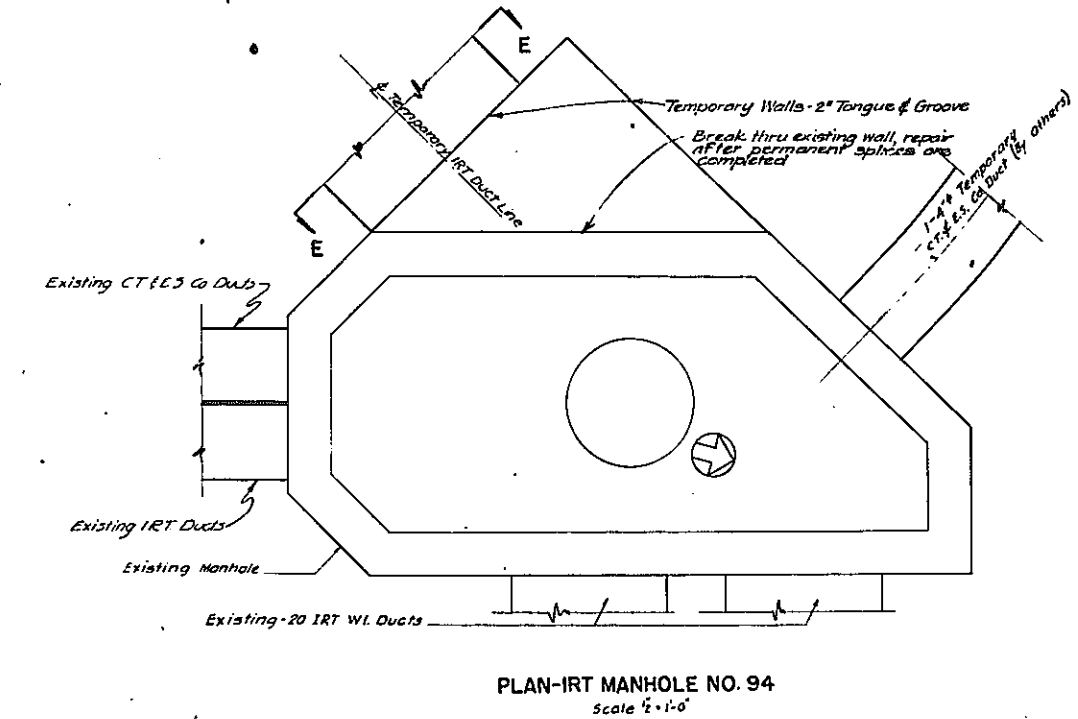
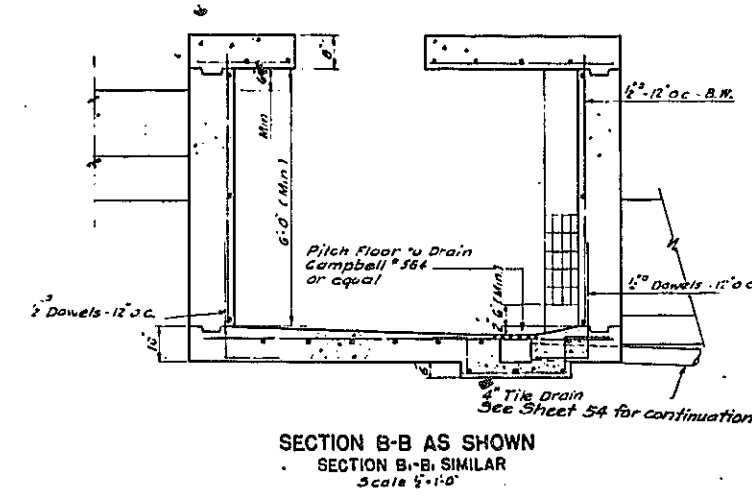
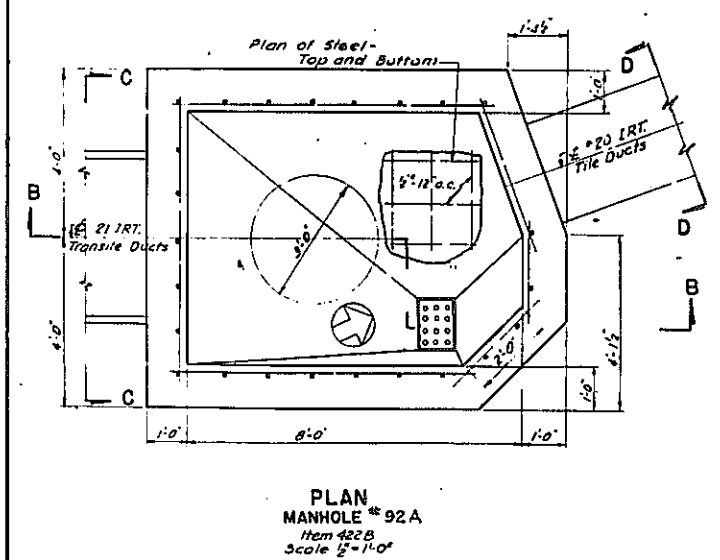
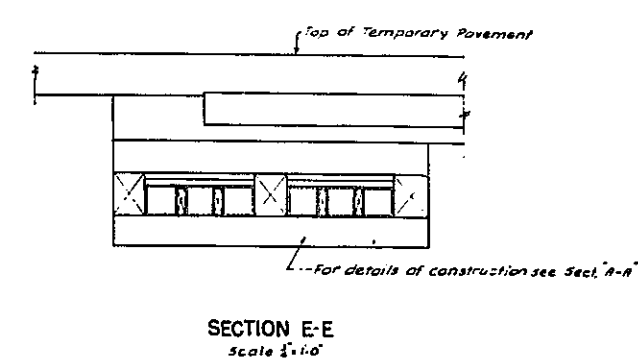
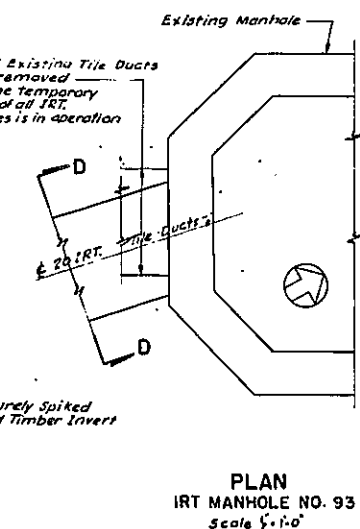
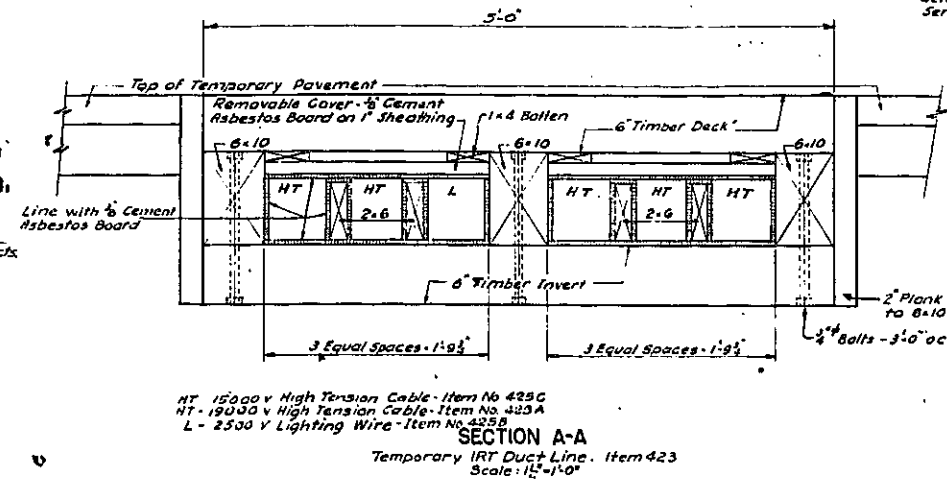
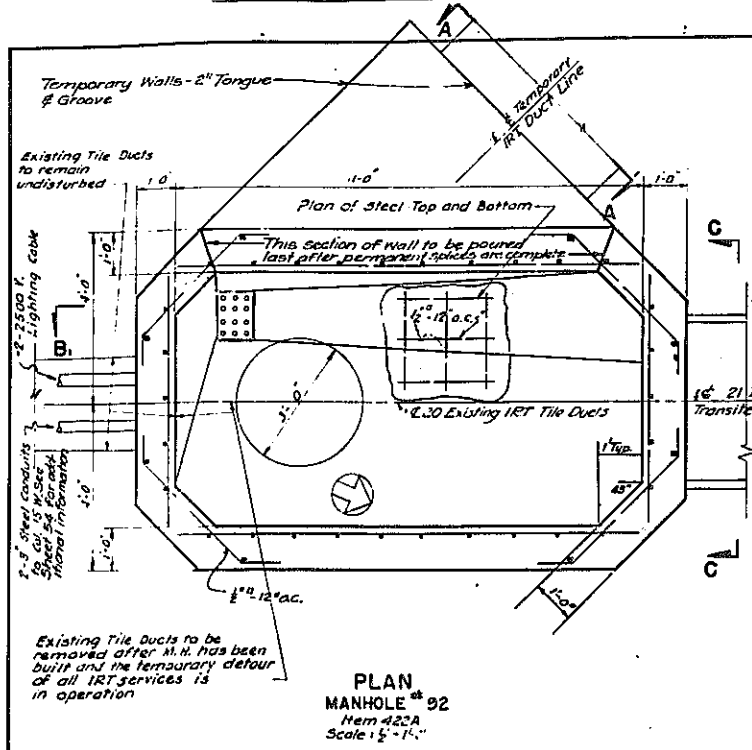


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-27B-1643		55	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO TREMONT AVE.
CONTRACT NO. 2



NOTES:
Manhole Frames, Manhole Covers, Cable Racks, Pulling Irons, Gasings etc. shall meet the requirements of the N.Y. City Transit Authority as to type, materials and details, Items 423A & B. Contractor is to furnish and install all materials for IRT system (including permanent coales for new IRT ducts).
All concrete shall conform to Item 185.
All bar reinforcement shall conform to Item 20.

REFERENCES:

Reference	Sheet No.
Utility Plan & Sections	52
Utilities - Details & Sections	53
Utility & 11'-0" Part	54
Detail Details	56
General Plan & Additional references	40

Rev 12-2-57

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY

UNDERPASS AT WESTCHESTER AVENUE

IRT CABLE INSTALLATION

DRAWN	SCALE	DATE	SHEET NO.
AS SHOWN		JUNE 18, 1947	55

CLARKE & RAPIANO
NEW YORK, N. Y. ENGINEERS

In charge of S. Rous
Made by J. M. Schwanen
Traced by L. Sax
Checked by S. Rous
Maurice Basson

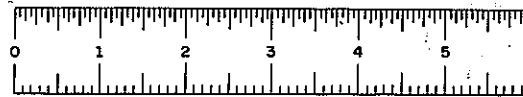
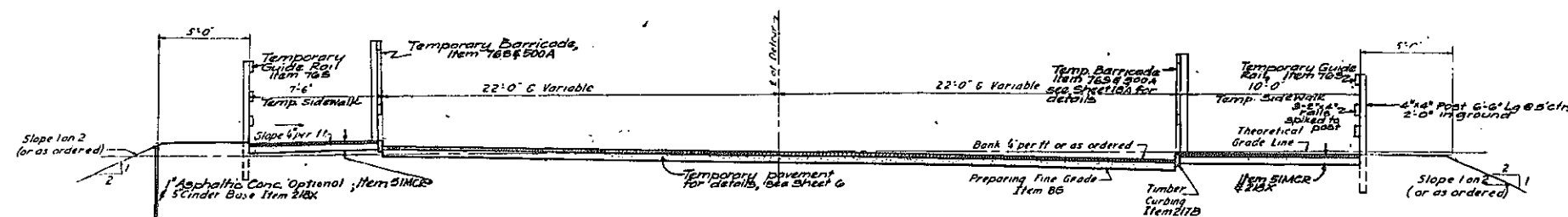


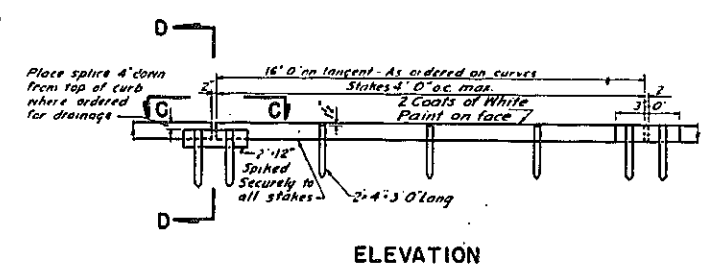
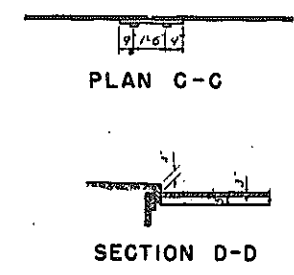
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	SI-270-449		50	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



SECTION A-A
TYPICAL SECTION - DETOUR
Scale: 1/4"=1'-0"



TIMBER CURBING
Item 217B
Scale: 1/4"=1'-0"

REFERENCES:

For location of Sections A-A & B-B	Sheet No. 54
Detour Plan	50
General Plan and Additional References	40

In charge of S. Roos
 Made by J. J. G. N. T.
 Traced by H. Trager
 Checked by S. Roos
William J. Benson

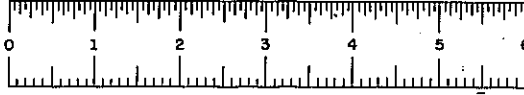
CORRECT AS BUILT
 Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

UNDERPASS AT WESTCHESTER AVENUE
DETOUR DETAILS

DWG. SCALE	DATE	SHEET NO.
AS SHOWN	JUNE 30, 1947	50

CLARKE & RAPUANO
 NEW YORK, N. Y. ENGINEERS

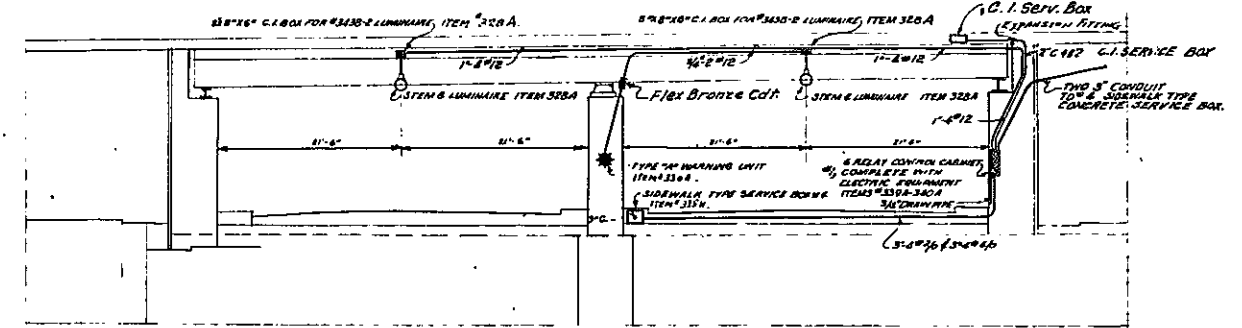
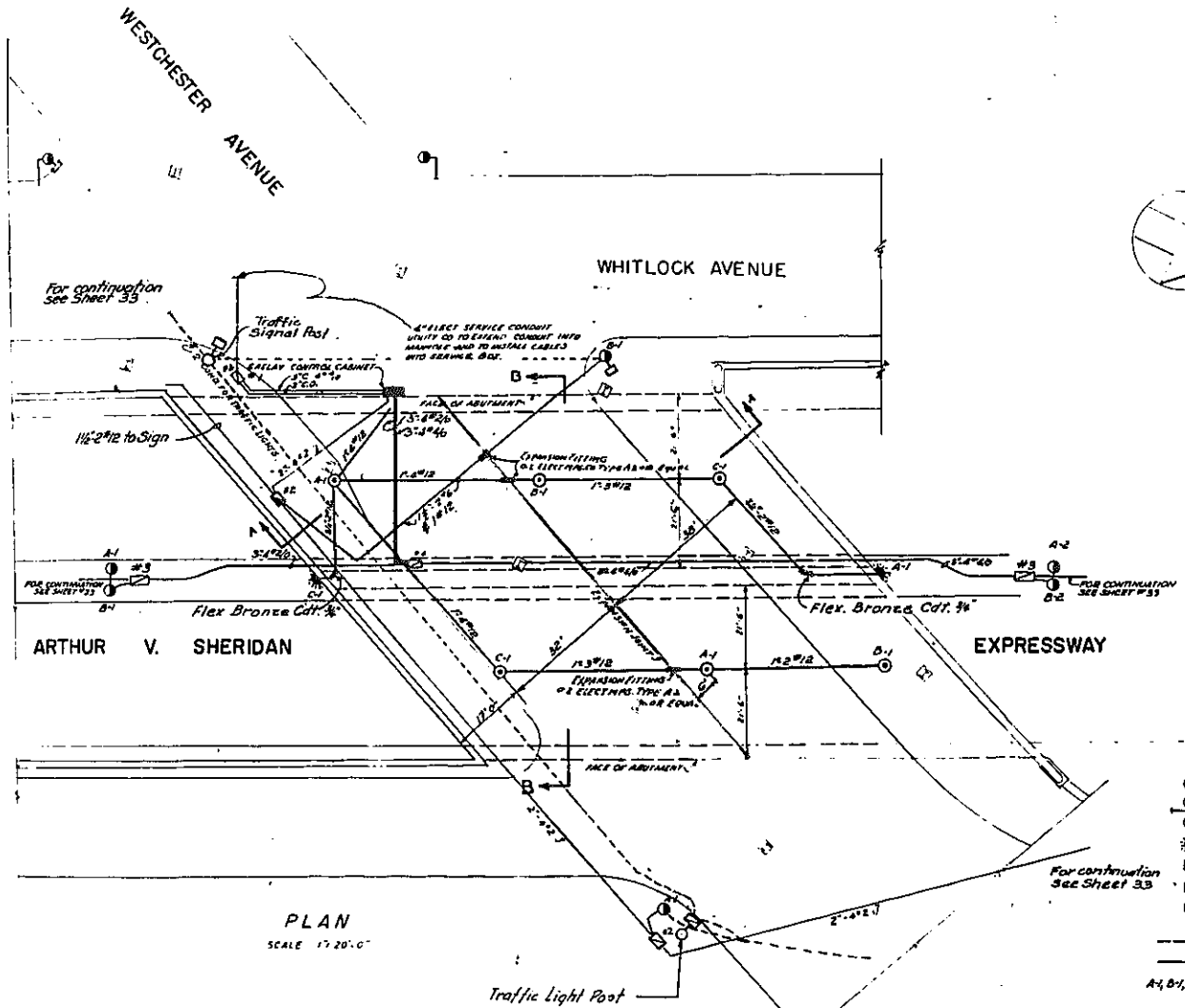


PHASE 60-1

57R

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E-1-218-4(5)		57	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

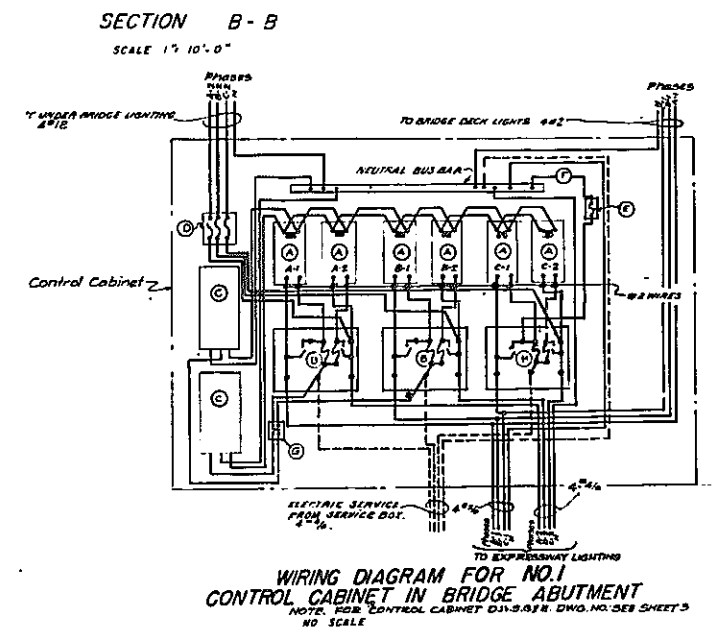
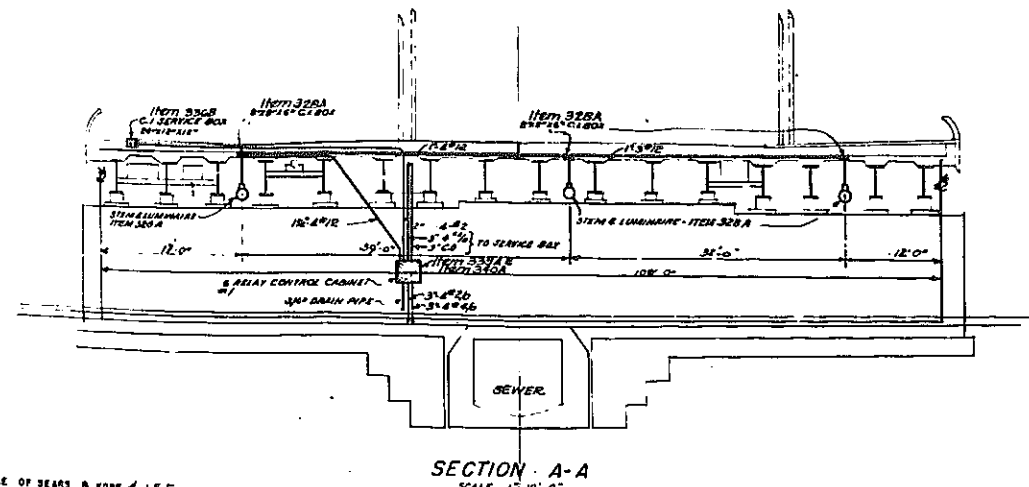


- LEGEND**
- 1 TYPE B3 LAMPPOST - GROUP CONTROLLED - ITEM # 328 AM
 - 2 TYPE B3 LAMPPOST - INDIVIDUALLY CONTROLLED - ITEM # 328 GM
 - 3 C.I. OUTLET BOXES FOR 2500-LUMINAIRE - ITEM # 328 B
 - 4 1 1/2" x 1 1/2" WARNING LIGHT UNIT - ITEM # 330 A
 - 5 241B SIDEWALK TYPE C.I. BOX - ITEM # 330 B
 - 6 SIDEWALK TYPE CONCRETE PULL BOX - ITEM # 335 H
 - 7 RELAY CONTROL CABINET COMPLETE WITH ELECT. EQUIPMENT - ITEMS # 339 A & # 340 A
 - 8 FURNISH & INSTALL CONDUIT ONLY
 - 9 FURNISH & INSTALL CONDUIT AND CABLES
- A, B, C, 1 LETTER INDICATES PHASE. FIGURE INDICATES CIRCUIT NUMBER

EQUIPMENT TO BE INSTALLED IN CONTROL CABINET ITEM 340A

- 1 100AMP RELAY - NORMALLY CLOSED STREET LIGHTING RELAY; AUTOMATIC SWITCH CO. TYPE SL-100 OR EQUAL
- 2 TERMINAL BLOCK WITH 6SA FUSES - AS PER DOUBLE DWG. NO. H-3435
- 3 ASTRONOMICAL TIME SWITCH - SAUTER-ET-50L OR EQUAL ARRANGE FOR REVERSE OPERATION
- 4 3 POLE FUSE CUT-OUT - HUBBELL OR 2550 OR EQUAL - WITH 15A FUSES
- 5 1/4" FUSE CUT-OUT - HUBBELL OR 2100 OR EQUAL - WITH 5AMP FUSE
- 6 PORCELAN LAMP RECEPTACLE - HUBBELL OR 307S OR EQUAL WITH 15W LAMP
- 7 2 WAY CUTOUT HUBBELL CAT. # 2220 OR EQUAL WITH 10A FUSES

- NOTES:**
- 1 - ALL CABLES IN CABINET TO BE PLACED BEHIND STEEL MOUNTING STRAPS
 - 2 - ALL WIRE CONNECTING CABLES TO BE PIV. EXCEPT WHERE NOTED
 - 3 - ALL CABLES IN BOX TO BE NUMBERED INSULATED, NEOPRENE COVERED
 - 4 - FOR RELAY CONTROL CABINET CONSTRUCTION DETAILS SEE SHEET 101/18
 - 5 - ALL CONDUCTORS IN CONTROL CABINET SHALL BE FLAME PROOFED
 - 6 - FOR OUTLET BOX AND 2500-LUM. DIM. OR PIPES DIM. SEE D.W.G. NO. 3 SEE SHEET 5-B



IN CHARGE OF BEARS & KOFF & J.E.E.
MADE BY C.L.M.
TRACED BY H.S.O. & J.M.
CHECKED BY S.B. & J.E.E.

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVENUE
ELECTRICAL CONDUIT LAYOUT AND UNDERPASS LIGHTING

SCALE: AS NOTED DATE: 7-11-50 SHEET NO. 57
CLARKE & RAPUNDO ENGINEERS
NEW YORK, N.Y.

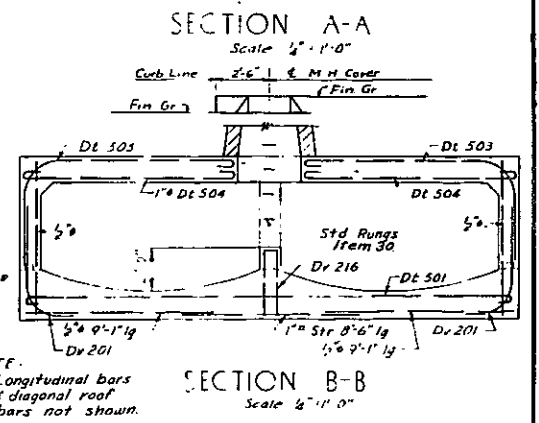
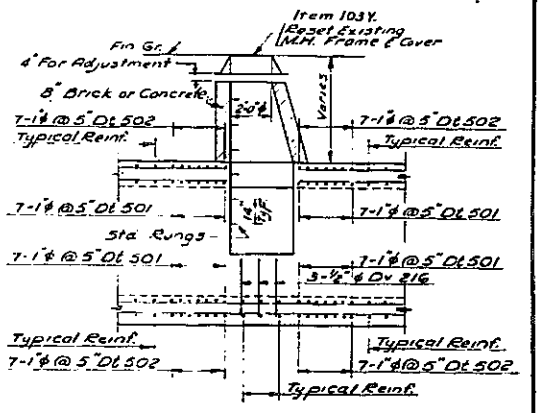
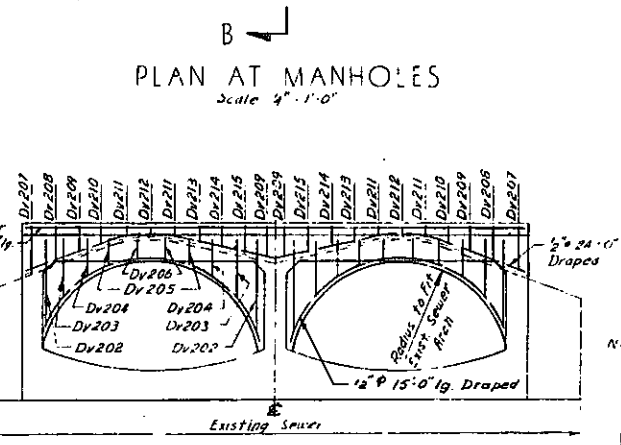
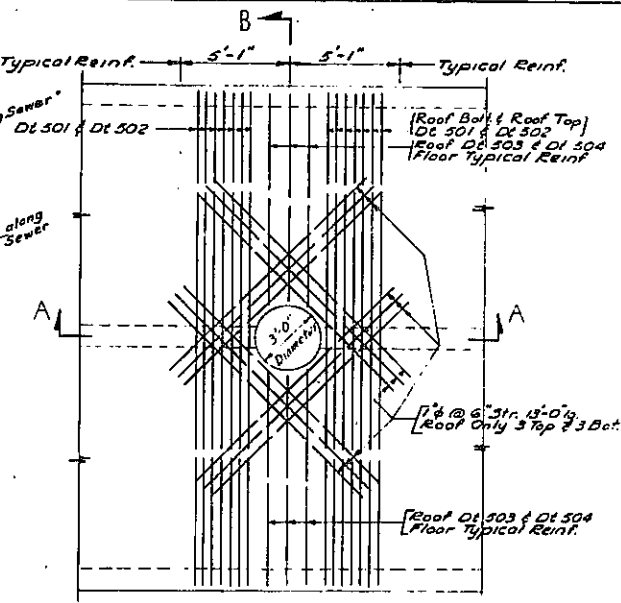
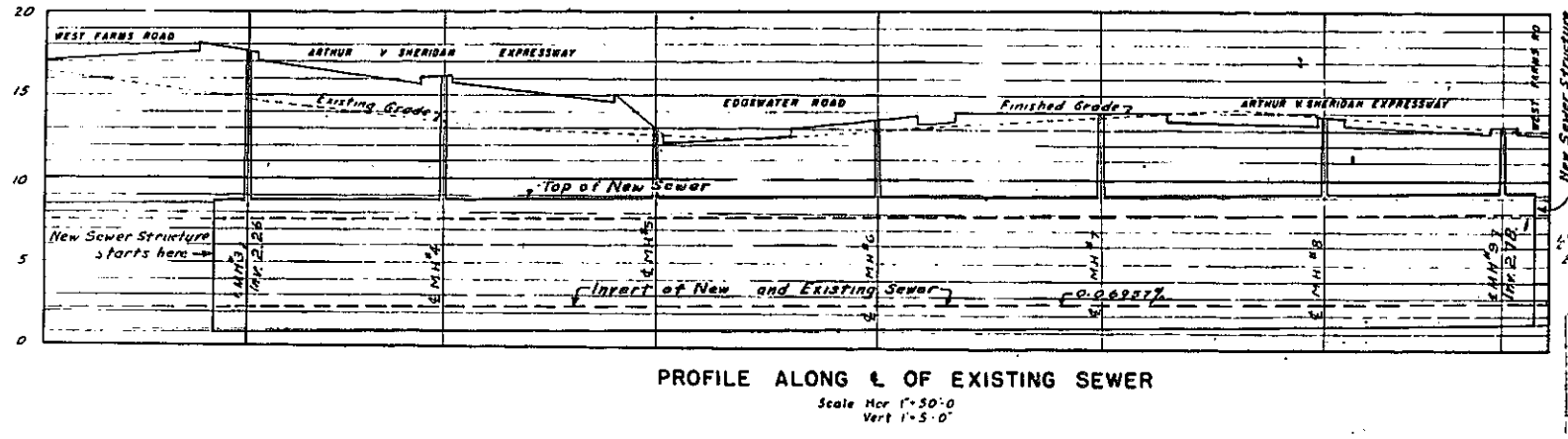
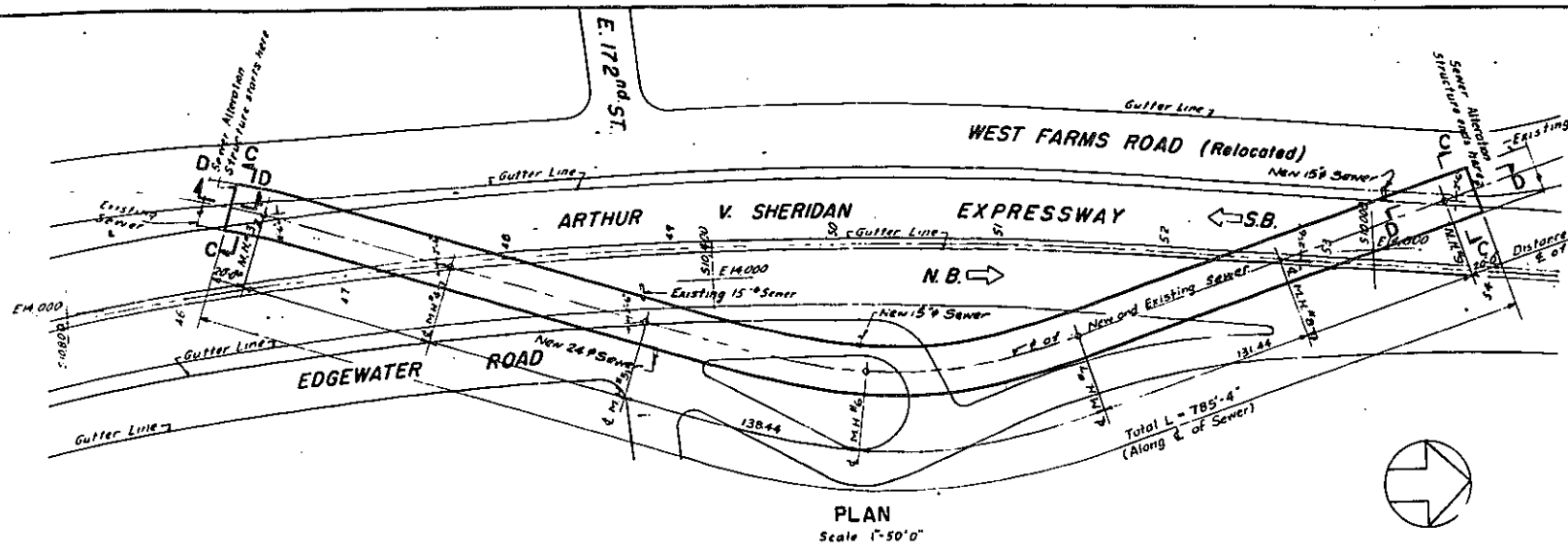
Revised by Shumovan, Buckley & Goul
Sept 26, 1961



PLATE 60-1

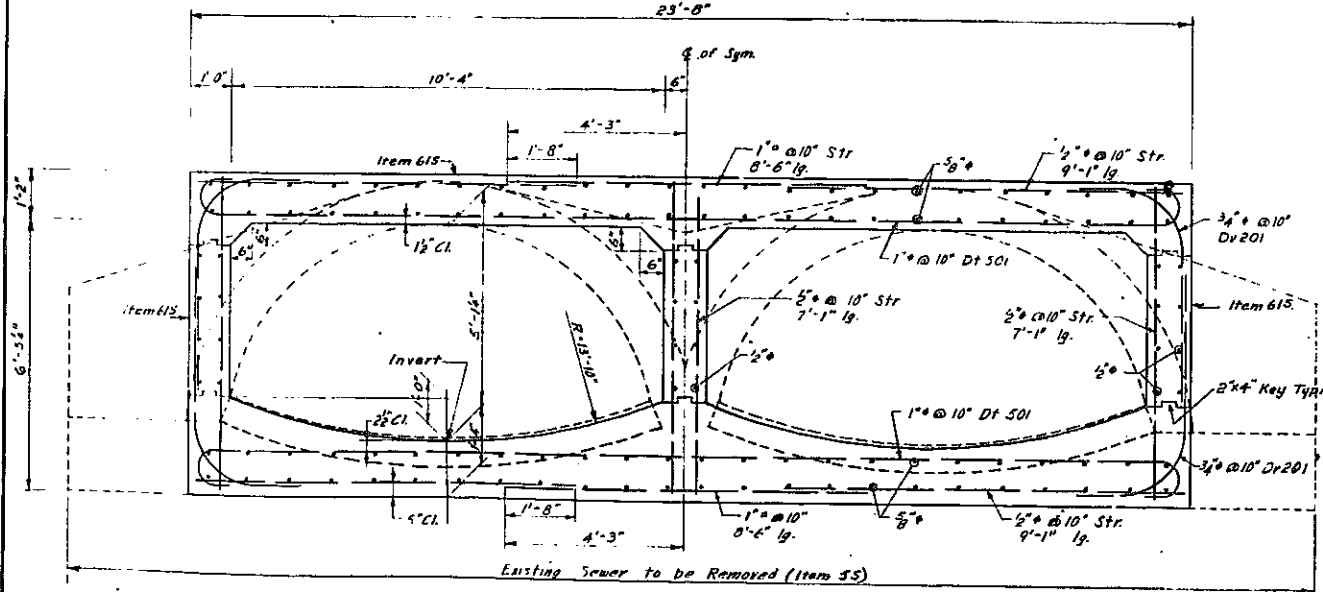
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EE-278-1(45)		58	139

GRADING DRAINAGE STRUCTURES UTILITIES PAVING LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



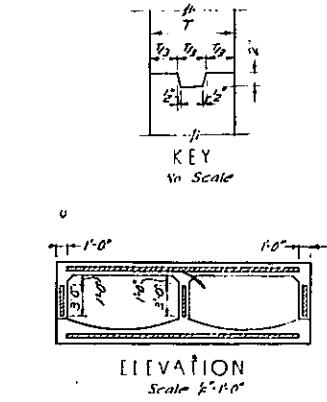
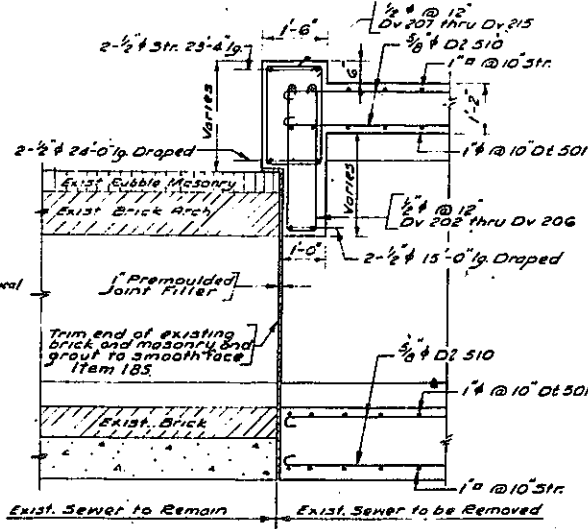
NOTE: Longitudinal bars & diagonal roof bars not shown.

- NOTES**
- All construction shall be subject to the inspection and approval of the Chief Engineer of the Borough of the Bronx in the field.
 - All dimensions and existing conditions must be verified in the field.
 - The E alignment, invert gradient and location of manholes number 3 thru 8 of the new sewer shall coincide with the E alignment, invert gradient and manhole locations of the existing sewer.
 - The floor of the new sewer shall be laid in the bed of the existing sewer. It is anticipated that the sewer will bear on rock, firm soil or an existing timber and pile foundation. In any event the minimum allowable bearing capacity of the foundation under the sewer shall be 1.5 tons per square foot.
 - The brick invert of the existing sewer shall be adjusted to provide smooth flow between the existing and the new sewer at each end.
 - All concrete shall be Item 18-5 Class A Concrete for Structures.
 - Reinforcement shall be Item 28 Bar Reinforcement for Structures.
 - All bars shall have a minimum cover of 2" except as noted.
 - All splices of bar reinforcement shall have a minimum overlap of 40 bar diameters.
 - Manholes to be paid for under Item 102S.
 - For location of transverse construction joints see Sheet No. 102.
 - Bituminous Material Item 615 shall be applied to the top and sides of new sewer.
 - For payment lines of Item 55 see sheet No. 7.
- CORRECT AS BUILT**
Rev 12-2-57



REFERENCES

Alignment and Paving Plan	20 & 21
Profiles	38
Grading Plan	25 & 26
Drainage	30 & 31
General Notes	79



For Additional Details, see Sht. No. FD-1

In charge of S. Roos Rev. D.O.B.
Made by T. Z. L.S.
Traced by H. T. F.M.L.C.
Checked by S. Roos F.W.

ARTHUR V. SHERIDAN EXPRESSWAY

SEWER ALTERATION AT E 172 STREET
PLAN, PROFILE & SECTIONS

D.W.G.	SCALE	DATE	SHEET NO.
P.S.R.	AS SHOWN	JUNE 30, 1947	58

CLARKE & RAPUANO ENGINEERS
NEW YORK, N. Y.

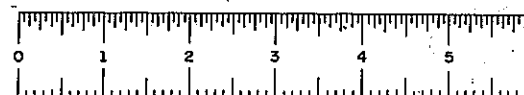
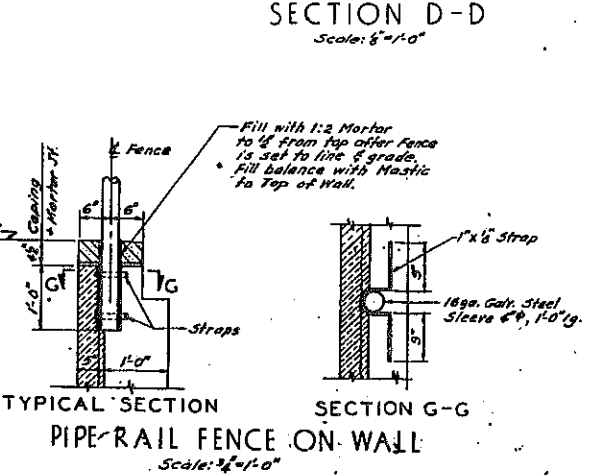
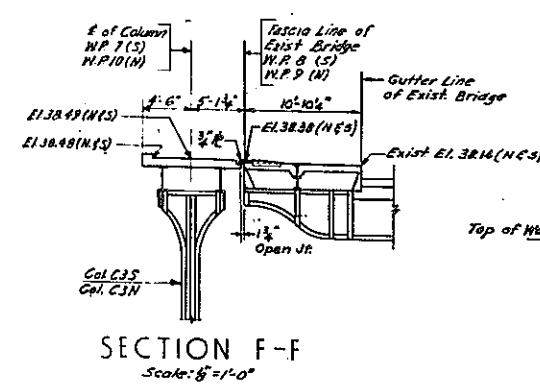
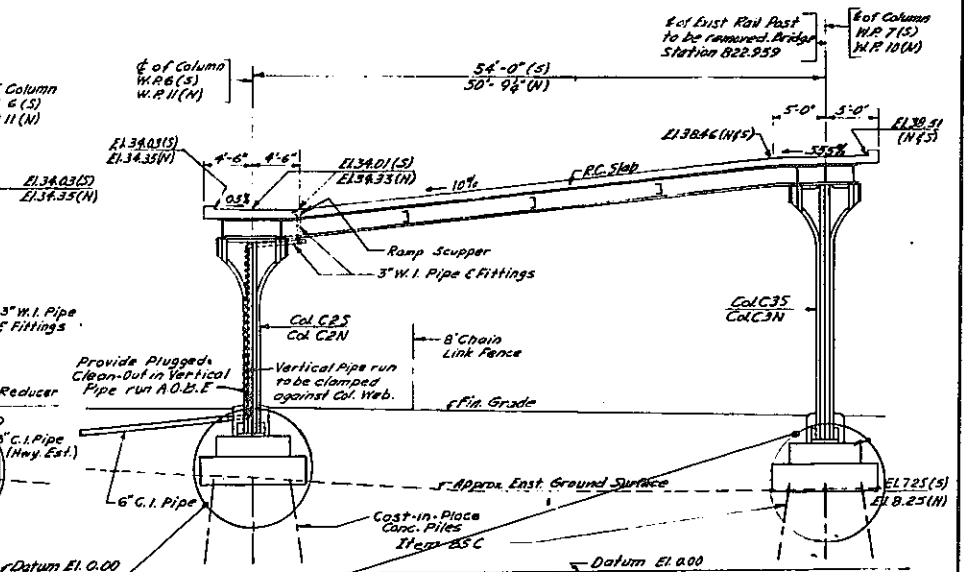
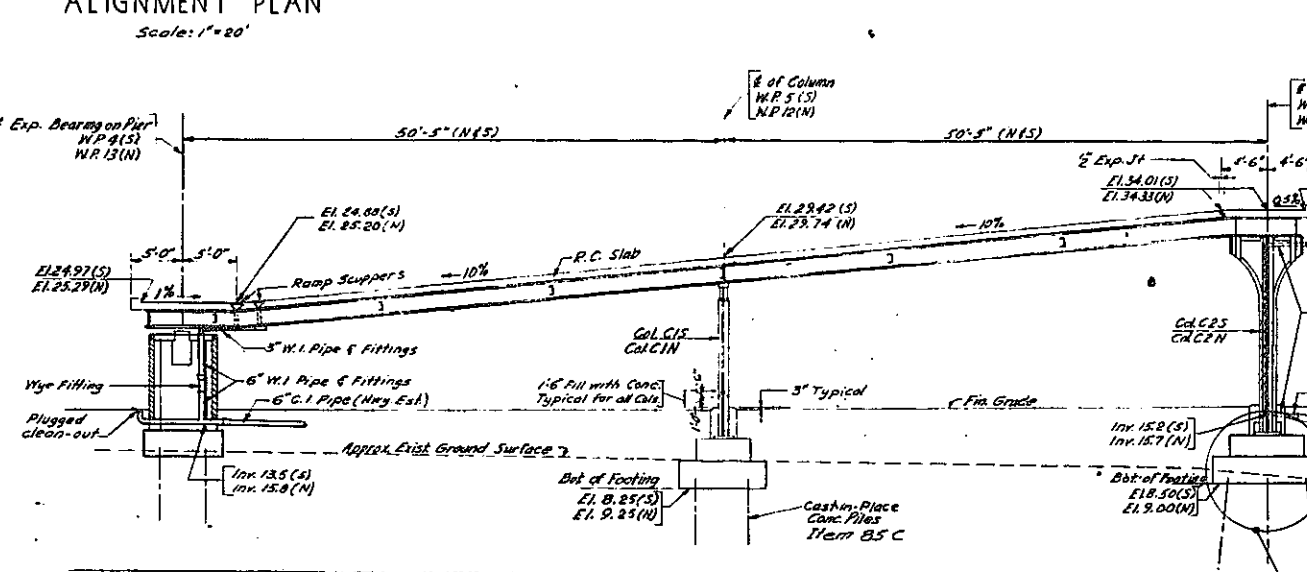
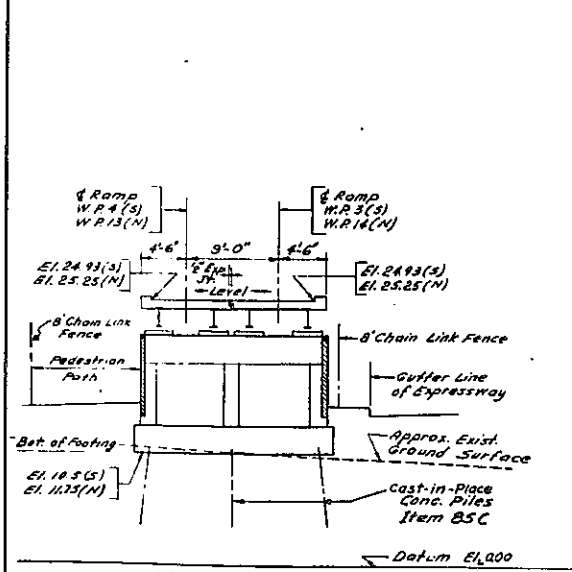
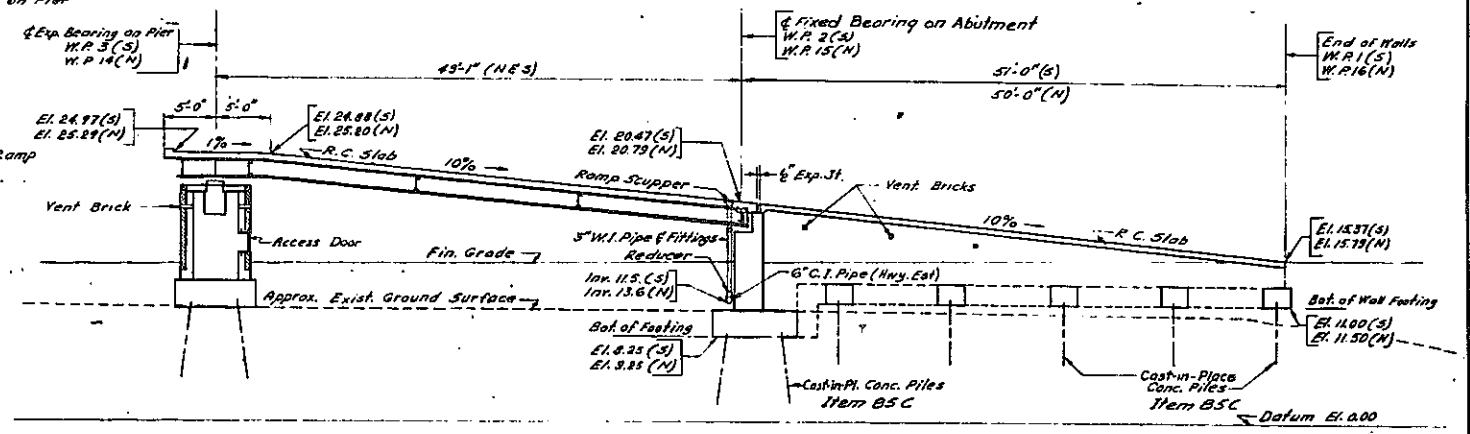
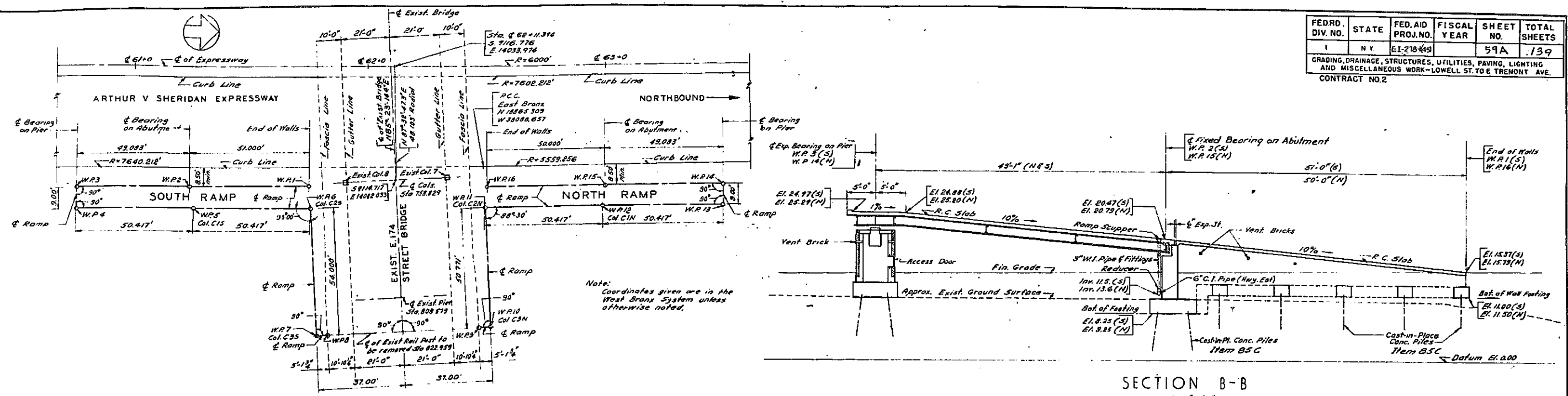


PLATE 60-1

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL-278-49	59A	139	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E TREMONT AVE.
CONTRACT NO. 2



- Notes:**
1. For Additional Notes and References See Sheet No. 59F
 2. For Location of Sections B-B thru F-F See Sheet No. 59F
 3. Sections are taken along Center Line of Ramp
 4. South Ramp is Shown, North Ramp is Similar
 5. All Dimensions & Elevations refer to Center Line of Ramps
 6. For additional Ramp Drainage Details see Sh. No. 59E.

In Charge Of **D. O'Brien**
 Made By **D. C. H. & P.B.**
 Traced By **J.T.**
 Checked By **F.W. & D.C.H.**

CORRECT AS BUILT

DWG. NO. R-2

ARTHUR V. SHERIDAN EXPRESSWAY
 NEW RAMPS AT E. 174 STREET BRIDGE
 ALIGNMENT & SECTIONS

SCALE	DATE	SHEET NO.
As shown	Dec. 2, 1957	59A

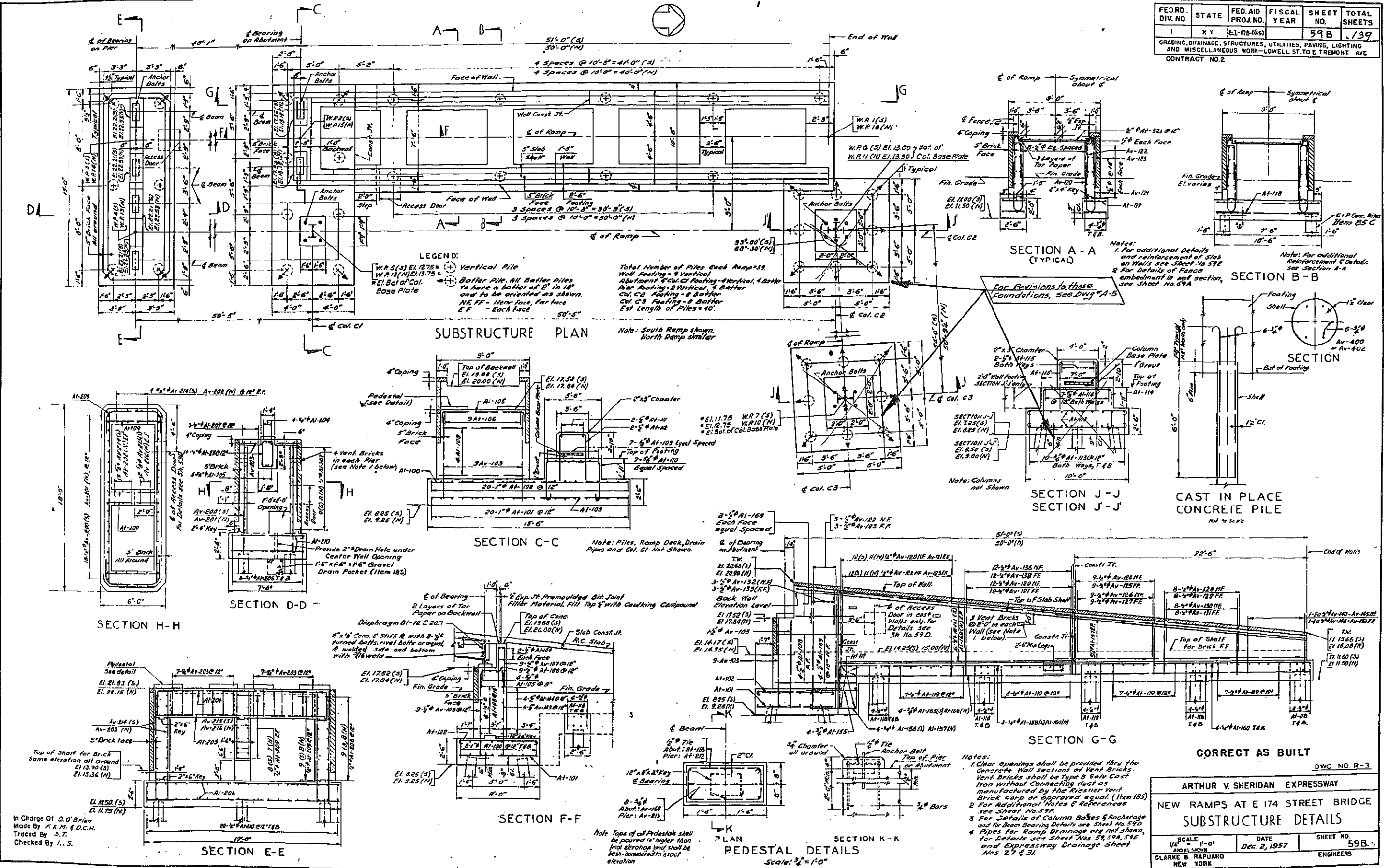
CLARKE & RAPUANO
 NEW YORK
 ENGINEERS



PLATE 60-1

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-17B-165		59B	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E TREMONT AVE
CONTRACT NO. 2



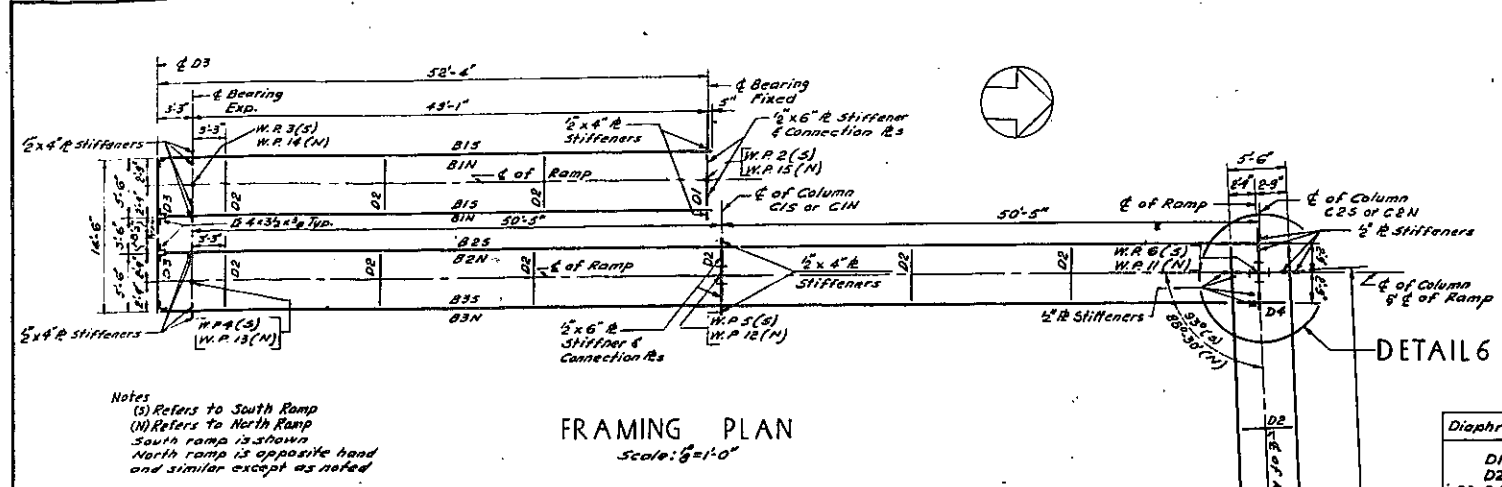
In Charge OI D. O' Brian
 Made By F. K. M. & D. C. H.
 Traced By S. T.
 Checked By L. S.

ARTHUR V. SHERIDAN EXPRESSWAY		
NEW RAMPS AT E 174 STREET BRIDGE		
SUBSTRUCTURE DETAILS		
SCALE 1" = 1'-0" AND AS SHOWN	DATE Dec 2, 1937	SHEET NO. 59B
CLARKE B. RAPUANO NEW YORK		ENGINEERS



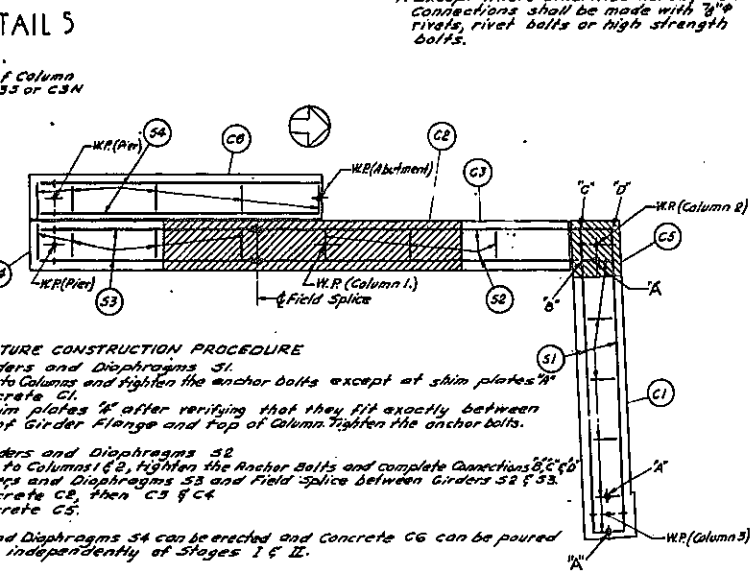
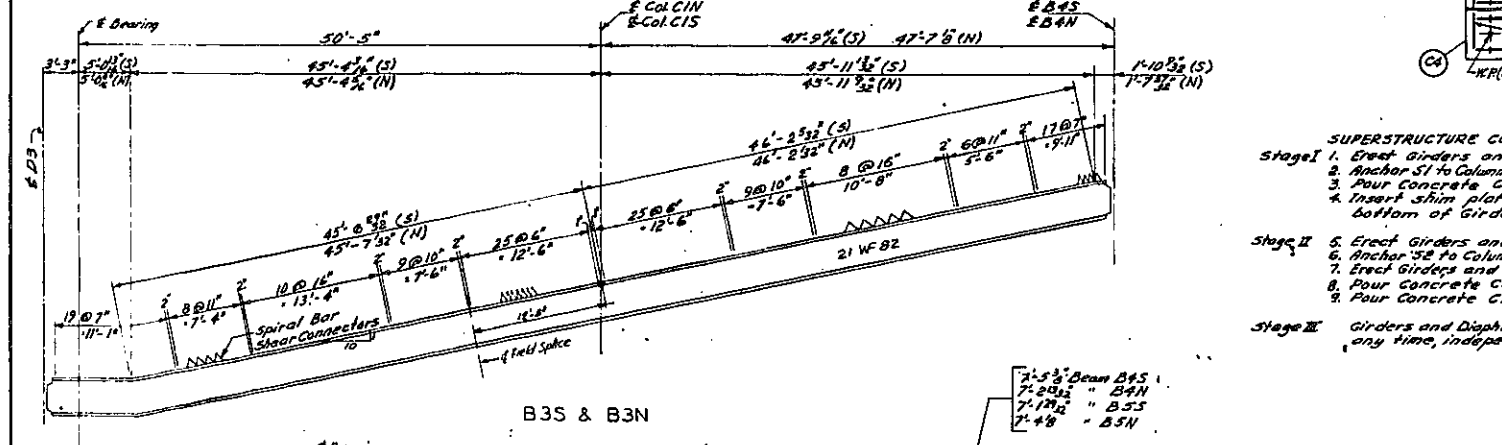
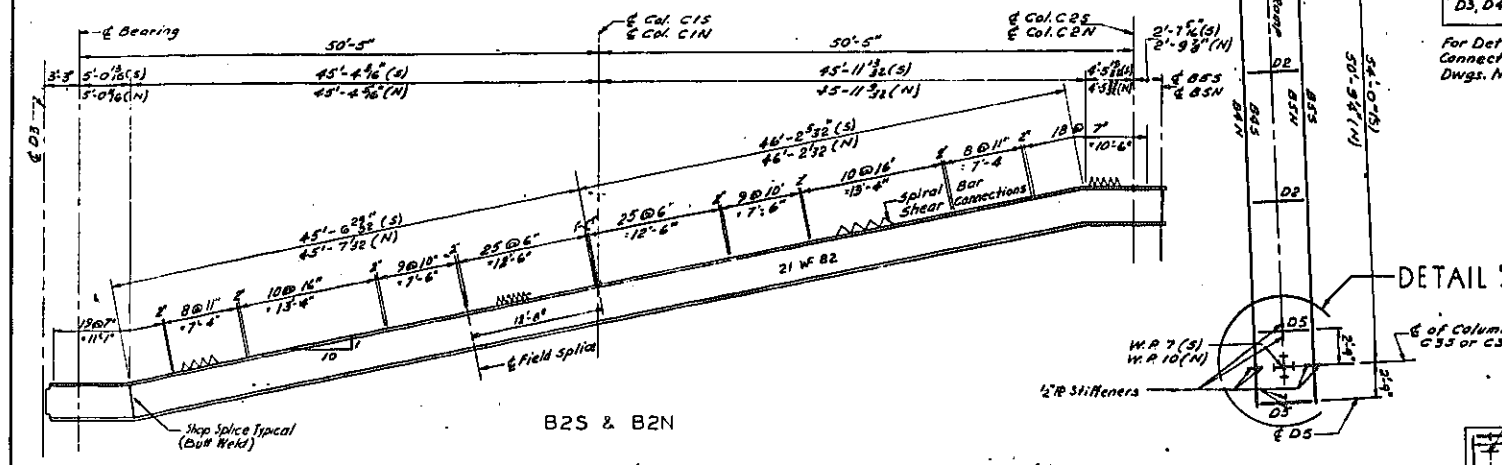
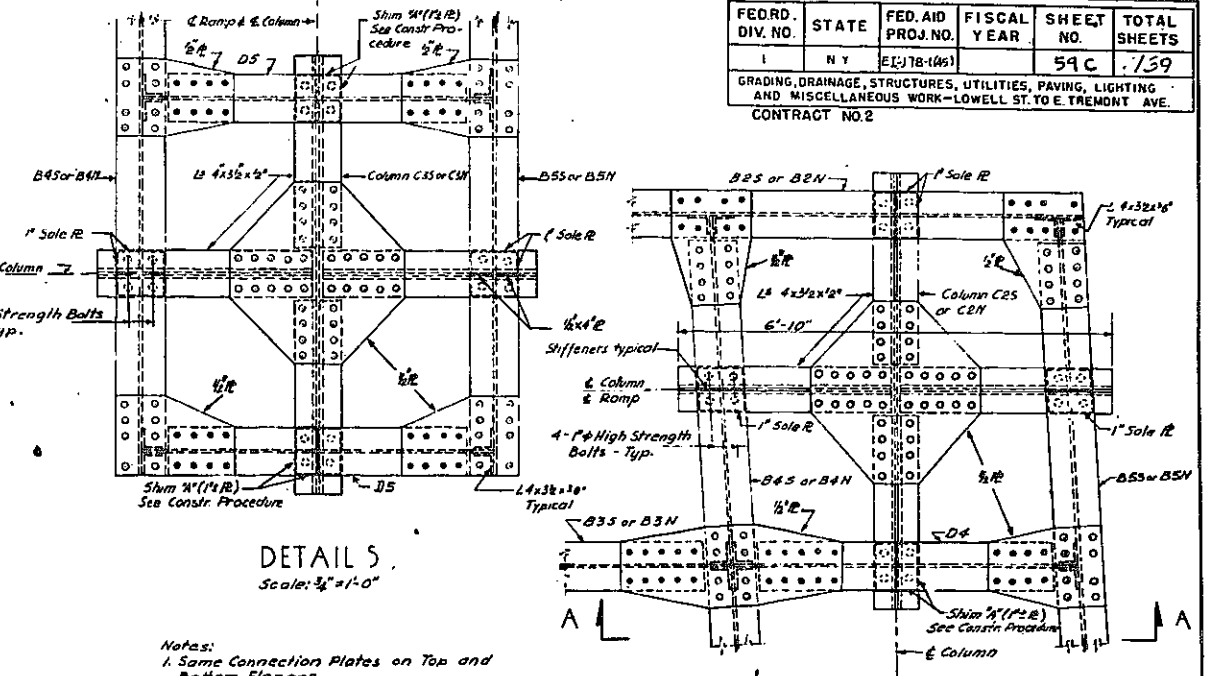
PLATE 60-1

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E[2]78-1061		59C	739
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE. CONTRACT NO. 2					

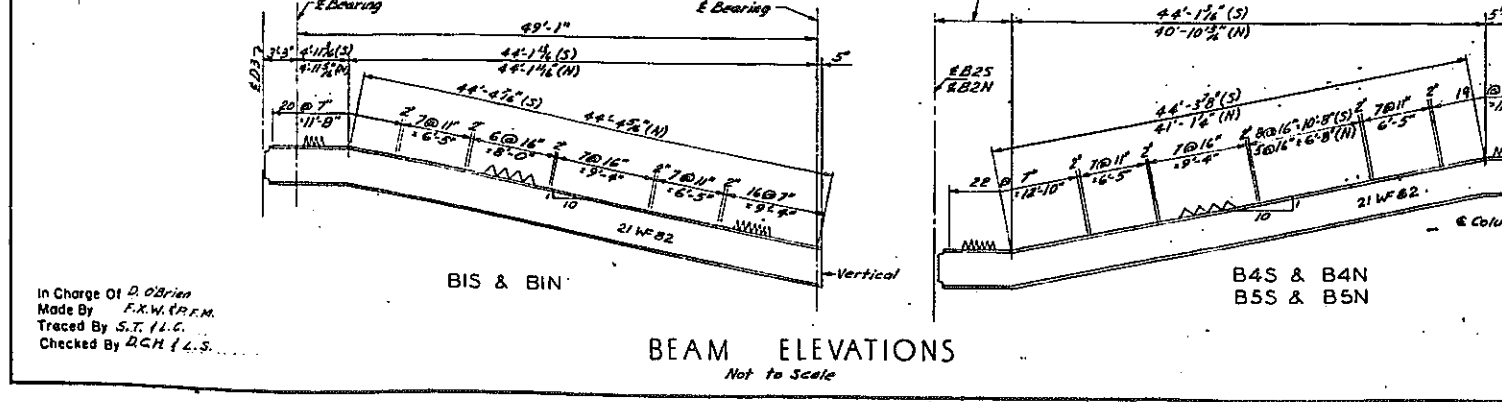
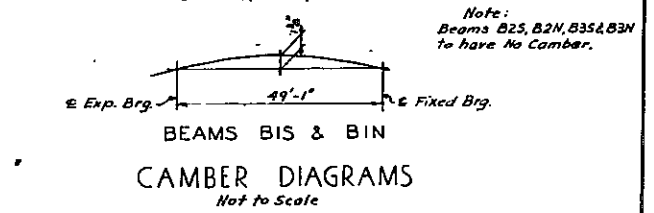
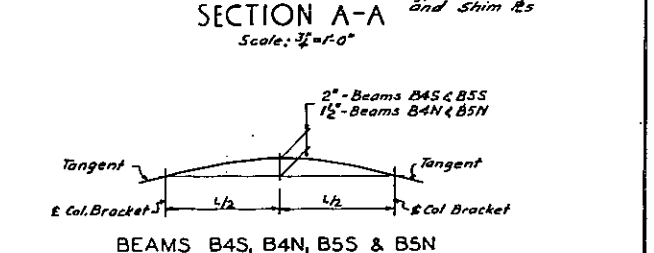
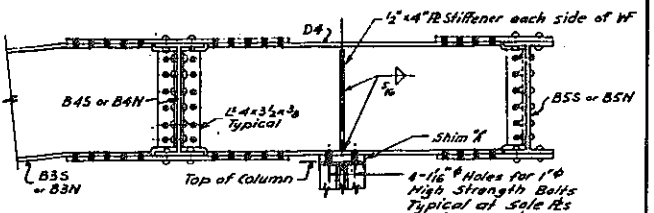


Diaphragm	Size
D1	12 C 20.7
D2	15 C 33.9
D3, D4, D5	21 W 82

For Details of Diaphragm Connection Plates See Dwg. No. R-3 & R-6.



- SUPERSTRUCTURE CONSTRUCTION PROCEDURE**
- Stage I
- Erect Girders and Diaphragms S1.
 - Anchor S1 to Columns and tighten the anchor bolts except at shim plates.
 - Pour Concrete C1.
 - Insert shim plates 1/4" after verifying that they fit exactly between bottom of girder flange and top of Column Tighten the anchor bolts.
- Stage II
- Erect Girders and Diaphragms S2.
 - Anchor S2 to Column 1 & 2, Tighten the Anchor Bolts and complete Connections S2 & S3.
 - Erect Girders and Diaphragms S3 and Field Splice between Girders S2 & S3.
 - Pour Concrete C2, then C3 & C4.
 - Pour Concrete C5.
- Stage III
- Girders and Diaphragms S4 can be erected and Concrete C6 can be poured any time, independently of Stages I & II.



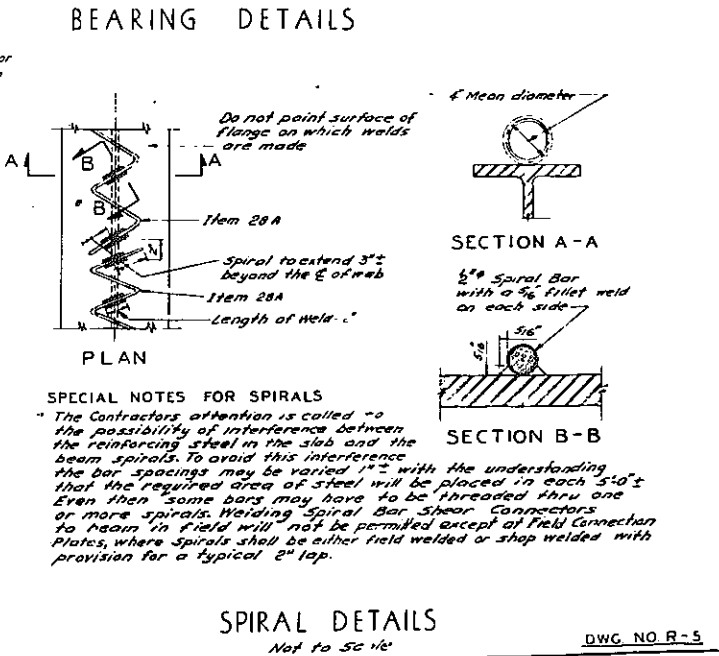
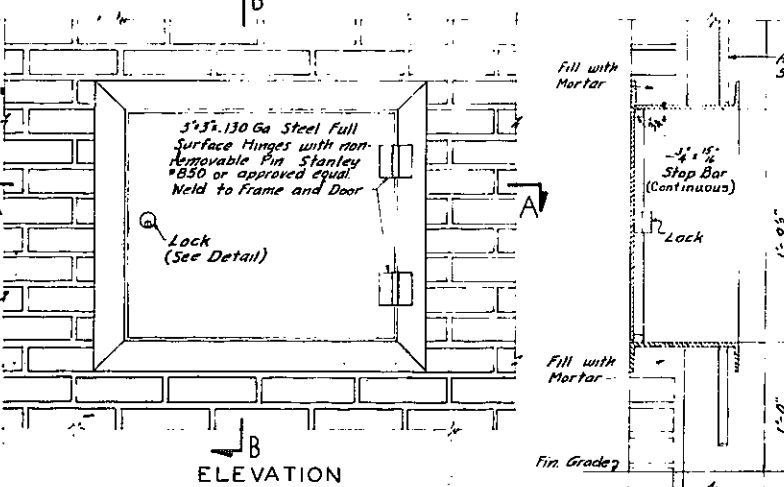
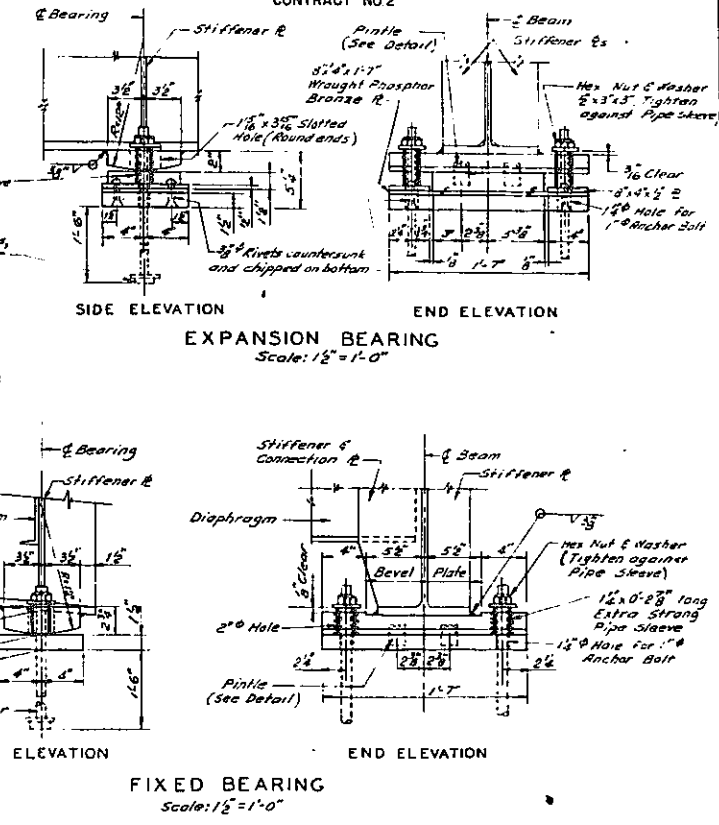
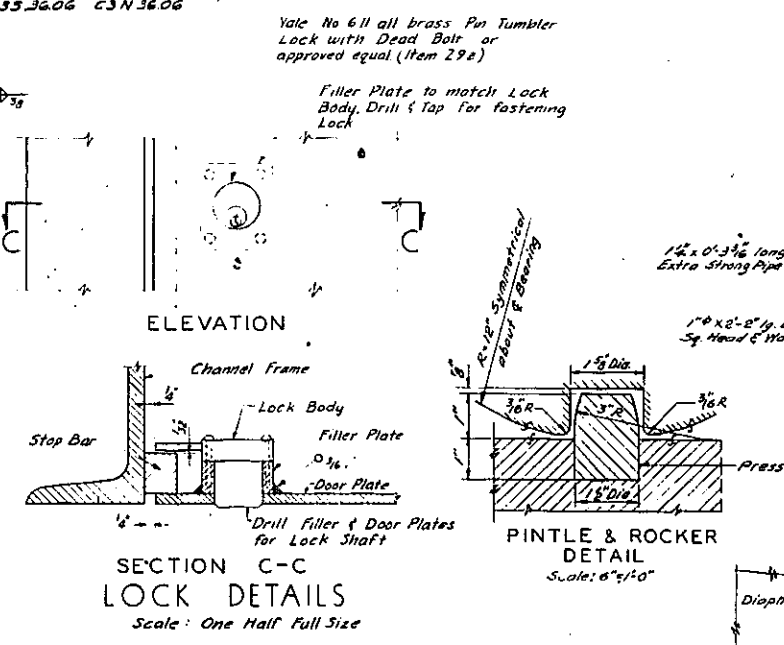
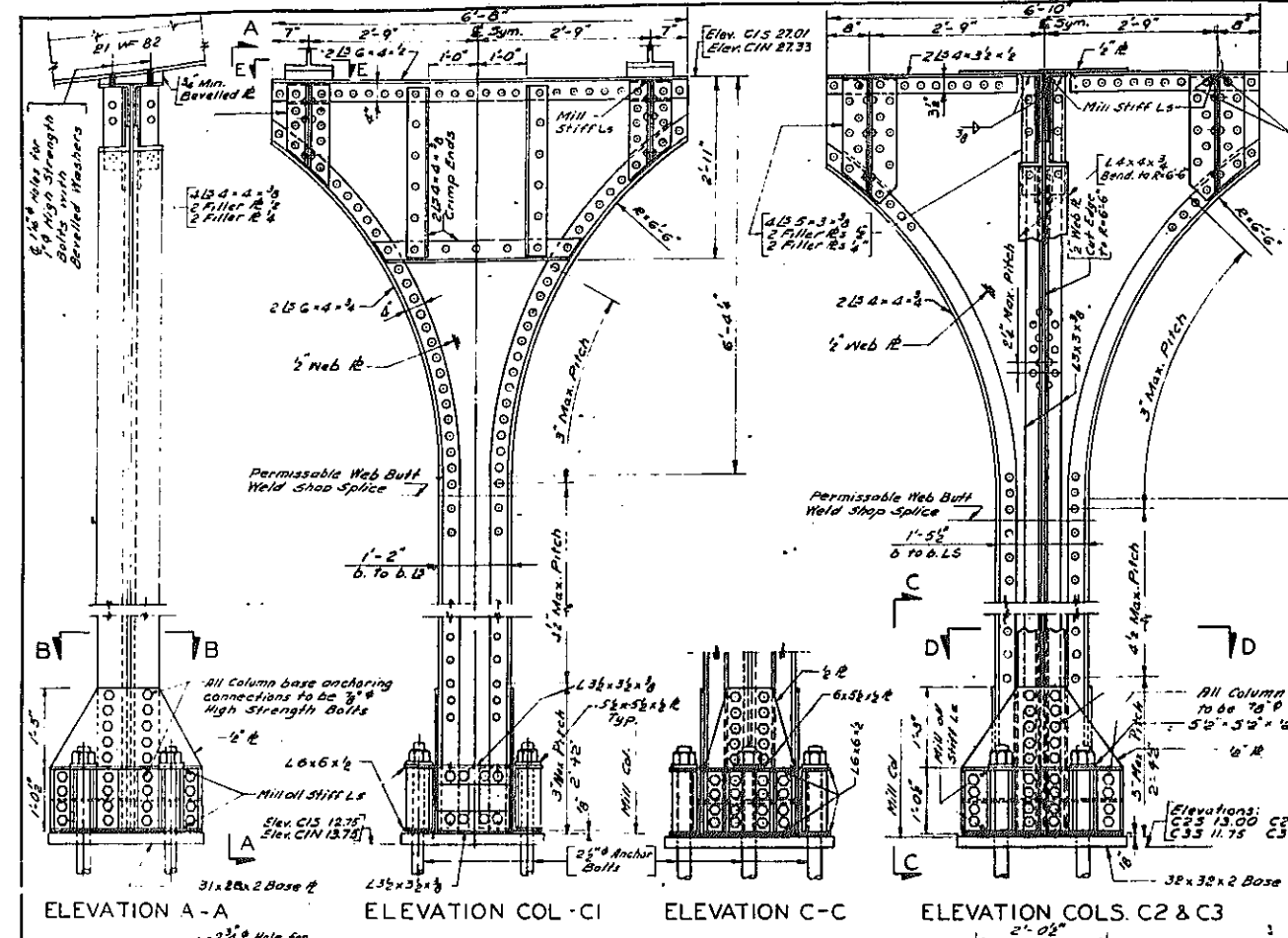
CORRECT AS BUILT
DWG. NO. R-4

ARTHUR V. SHERIDAN EXPRESSWAY		
NEW RAMPS AT E. 174 STREET BRIDGE		
FRAMING PLAN & STEEL DETAILS		
SCALE As shown	DATE Dec. 2, 1957	SHEET NO. 59C
CLARKE & RAPUANO NEW YORK ENGINEERS		

In Charge Of D. O'Brien
Made By F.W. TREM
Traced By S.T. L.C.
Checked By DCH L.L.S.

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	61-38-1(65)		59D	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST TO E TREMONT AVE
CONTRACT NO 2

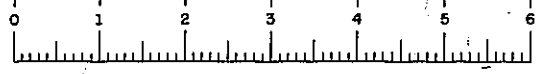


In Charge Of D. O'Brien
Made By P.M. & R.J.H.
Traced By F.X.W. & S.T.
Checked By F.X.W. & D.G.N.

Notes:
1. For Additional Notes & References see Sheets No 59 F
2. For Additional Spiral Details & Notes see Sheet No 59 C.

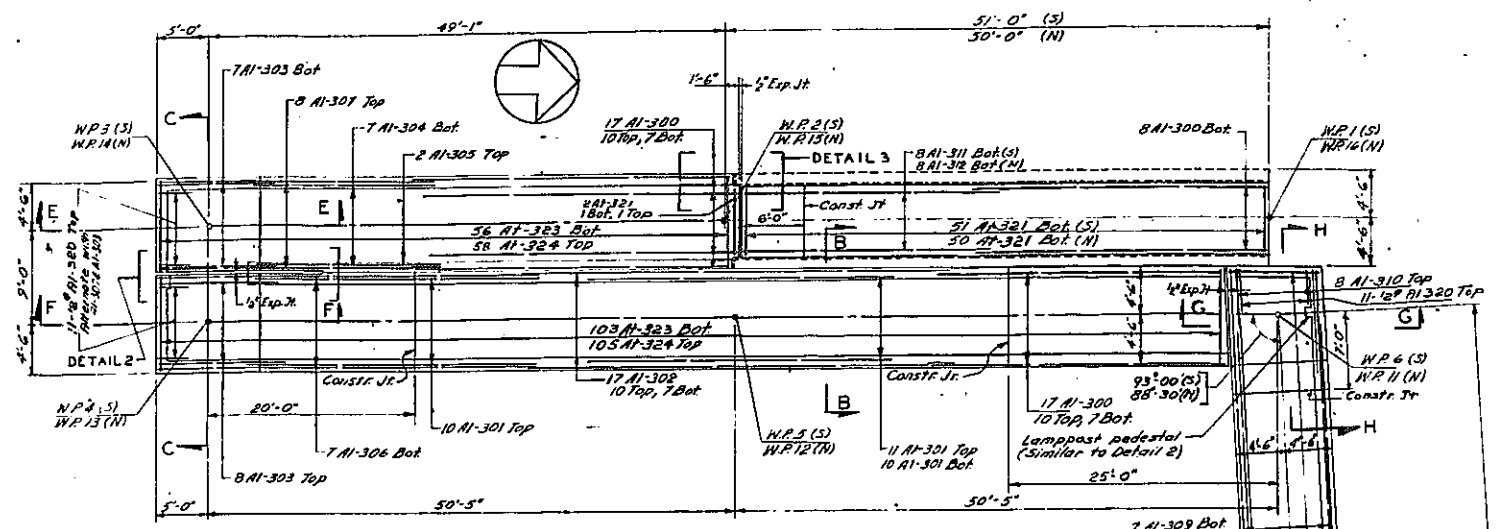
CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY		
NEW RAMPS AT E. 174 STREET BRIDGE		
STEEL DETAILS		
SCALE AS SHOWN	DATE Dec. 2, 1957	SHEET NO. 59D
CLARKE & RAPUANO NEW YORK		ENGINEERS



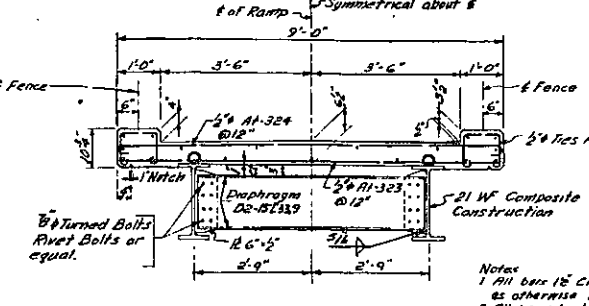
FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E-278-149		59E	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

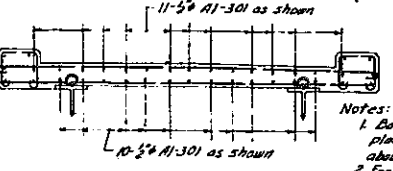


SLAB PLAN
Scale 1/4" = 1'-0"

- Notes:**
 1. South Ramp shown, North Ramp similar except as noted.
 2. All Slab Reinforcing Bars are #6.
 3. Parapet Tie bars #1-327 are not shown total number for all parapets: South Ramp = 436 North Ramp = 430

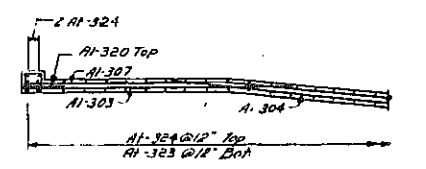


SECTION A-A (TYPICAL)
Scale 1/2" = 1'-0"

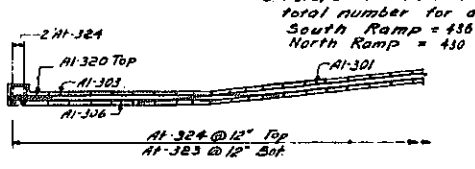


SECTION B-B
Scale 1/2" = 1'-0"

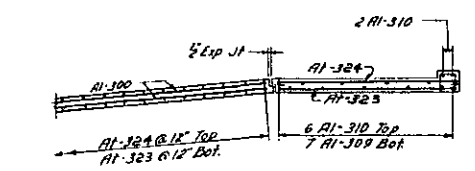
- Notes:**
 1. Bars #1-301 to be placed Symmetrical about # of Column C.1.
 2. For Reinforcement and Details not Shown see SECTION A-A (TYPICAL).



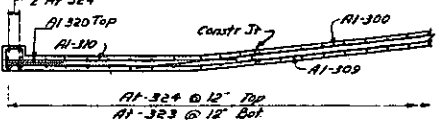
SECTION E-E
Scale 1/2" = 1'-0"



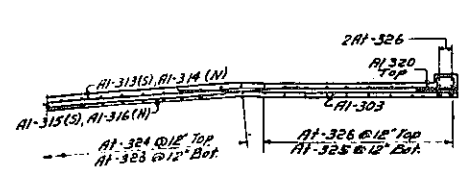
SECTION F-F
Scale 1/2" = 1'-0"



SECTION G-G
Scale 1/2" = 1'-0"



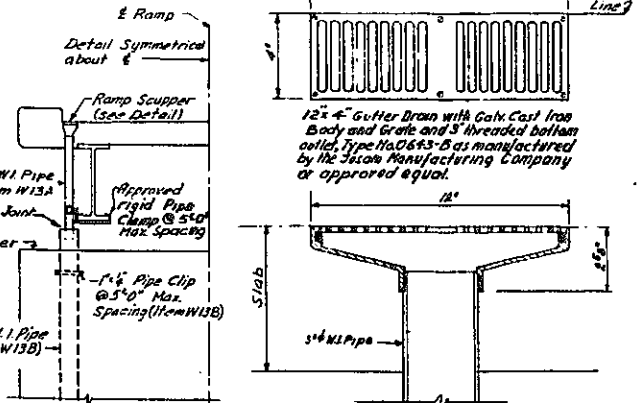
SECTION H-H
Scale 1/2" = 1'-0"



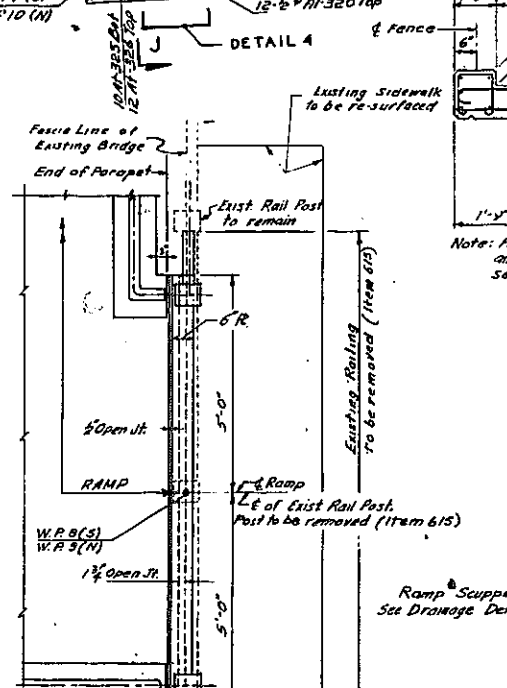
SECTION J-J
Scale 1/2" = 1'-0"

- Drainage Notes:**
 1. Details at Abutment & CURB are similar to pier details except that there shall be no open pipe joint. For details see Sheet Nos 59A & 59D.
 2. Pipe Clips shall be expansion lapped to concrete. Pipe Clamps shall be welded to structural members. Clips & Clamps will be paid for under their respective Pipe Items.
 3. Pipe Sleeves shall be provided where pipes are to pass thru walls. Sleeves will be paid for under Item 145.
 4. 3" W.I. Pipe fittings will be paid for under Item 145A.
 5. 6" W.I. Pipe & fittings will be paid for under Item 145B.
 6. All pipe runs shall have min. 1% slope and all pipe runs shall be provided with plugged clean-outs A.O.B.E.

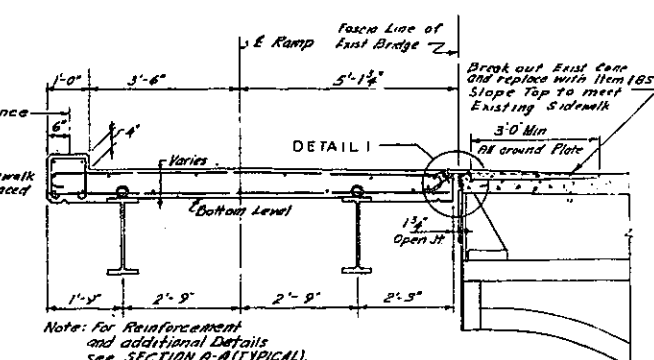
In Charge Of... D. O'Brien
 Made By... F.X.M.
 Traced By... A.C. & S.T.
 Checked By... D.C.H. & L.S.
DRAINAGE DETAILS



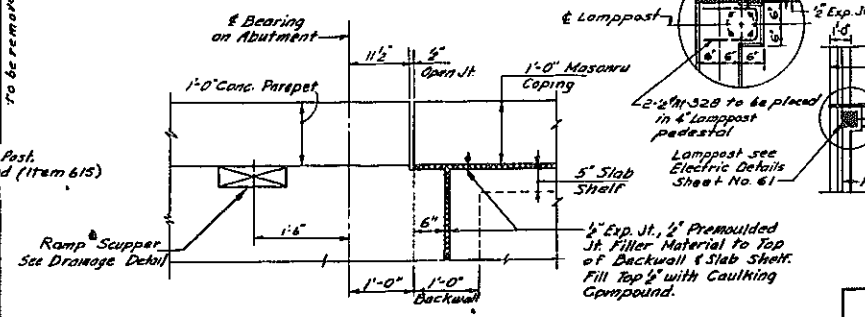
ELEVATION AT PIER
RAMP SCUPPER (ITEM 30)
Scale 3/8" = 1'-0"



DETAIL 1
DETAIL 4
Scale 1/2" = 1'-0"



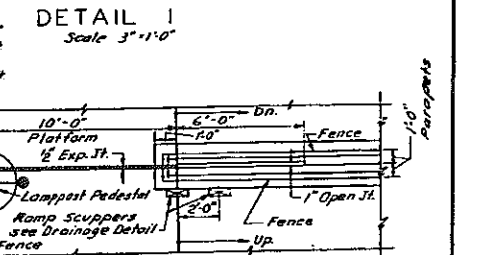
SECTION D-D
Scale 1/2" = 1'-0"



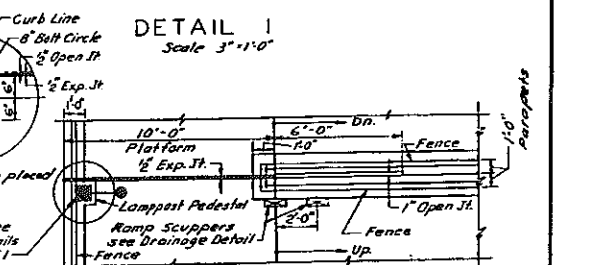
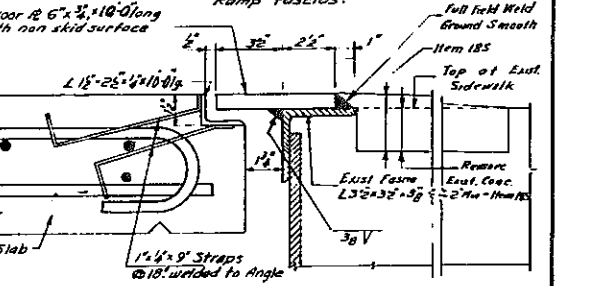
- Notes:**
 1. For Additional Notes and References see Sheet No. 59E.
 2. For Typical Section of Wall Slab see Section A-A, Sheet No. 59B.
 3. For Elevations of the top of Slab along Ramp center lines see Sheet No. 59A.

SLAB JOINT DETAILS
Scale 1/2" = 1'-0"

- Notes:**
 1. For Expansion Joint at Abutment and Walls see Detail 3.
 2. Caulking Compound 1/2" Min. to be extended around exposed edges of all Expansion Jts.
 3. Const. Joint keys to terminate 4" from Ramp fascias.



DETAIL 1
Scale 3/8" = 1'-0"



CORRECT AS BUILT
 DWG. NO. R-6
 ARTHUR V. SHERIDAN EXPRESSWAY
 NEW RAMPS AT E174 STREET BRIDGE
SLAB & DRAINAGE DETAILS

SCALE As Shown	DATE Dec-2-57	SHEET NO. 59E
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CLARKE & RAJUANO
NEW YORK ENGINEERS



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EE-272 (1957)		59F	139

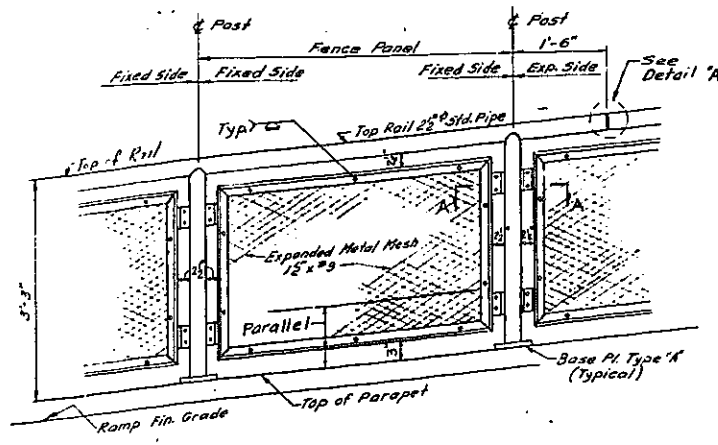
CONTRACT NO. 2

ESTIMATE OF QUANTITIES

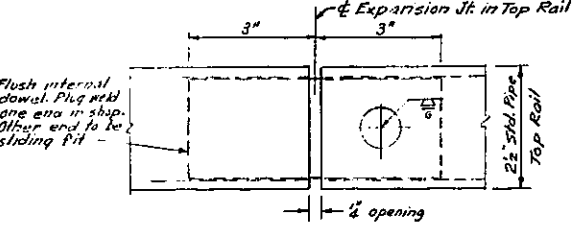
ITEM	DESCRIPTION	UNIT	QUANTITIES		
			NEAT	ROUND	FINAL
2EF-B	Selected Fill	C.Y.	254	260	89
5S	Trench, Culvert and Bridge Excavation	C.Y.	130	130	428
W13A	Wrought Iron Pipe 3" Diam.	L.F.	156	160	174
W13B	Wrought Iron Pipe 6" Diam.	L.F.	24	25	40
15-2	Portland Cement Type 2	Bbl.	479	485	598
15-25	Portland Cement Type 25 Plus A.E.A.	Bbl.	165	170	165
15-N	Natural Cement Type N	Bbl.	68	70	111
18-S	Class 1A Concrete for Structures	C.Y.	354	365	298.66
23BA	Brick Facing, Type A	S.F.	1404	1435	1,393.89
23DS	Dimension Masonry	S.F.	424	435	450.79
25F	Steel Fabric Reinforcement	S.Y.	16	20	0
28RR	Bar Reinforcement for Structures	Lb.	35,904	40,000	54,324
20R	Class I Concrete	C.Y.	163	163	147.78
29AZ	Structural Steel	Lb.	133,215	133,215	133,215
30S	Miscellaneous Metals	Lb.	136	140	1158
85C	Cast-In-Place Concrete Piles	L.F.	3120	3500	2,498.1
87	Furnishing Equipment for Driving Piles	L.S.	Nec.	Nec.	18%
28A	Spiral Bar Shear Connectors	Lb.	1,002	1,050	980
326E	Furnish & Install Davit Type Lamppost and Luminaire on Structure	Eq.	10	10	10
328A	Furnish & Install Type 3438-2 Underpass Luminaire	Eq.	2	2	2
336F	C.I. Service Box, 8" x 8" x 8"	Eq.	8	8	8
337DS	Fuse Cutout Box, 8" x 8" x 6"	Eq.	2	2	2
342B	Conduit, Hot Dipped Galv. Steel Pipe 1" Dia.	L.F.	498	525	557
342E	Conduit, Hot Dipped Galv. Steel Pipe 2" Dia.	L.F.	16	20	26
344NA	Furnish and Install Conductor, #12 R.I.N.C.	L.F.	1410	1475	1,656
344ND	Furnish and Install Conductor, #6 R.I.N.C.	L.F.	64	70	115
338D	Elect. Equip. for 8"x8"x6" Fuse Cutout Boxes	Eq.	2	2	2
615	Pipe Rail Fence with Mesh Panels	L.F.	1076	1100	1064
461	Borings in Material other than Rock	L.F.	0	0	110.1
462	Borings in Rock	L.F.	0	0	27.4
1701	Flexible Bronze Conduit, 1" Dia.	L.F.	12	12	12

NOTES

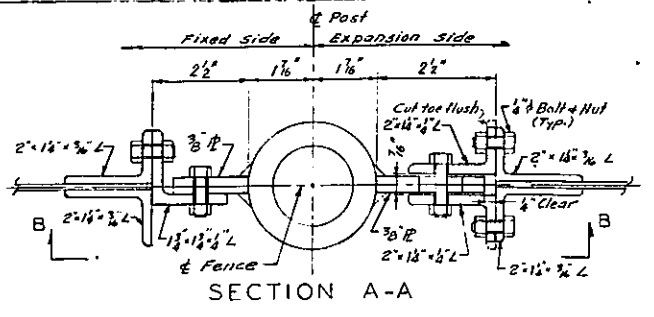
- For General Notes see Sheet No. 79.
- All Borings indicated on Dwg. R-1 were taken in connection with the construction of Existing E. 174th Street Bridge.
- Ramp Design Live Load: 85 lbs. per sq. ft.
- All piles are Cast-In-Place Concrete Piles Item B5C. For design purposes the assumed maximum pile load is 35 tons. For pile racking details see Dwg. R-3.
- For Earthwork Payment Lines see Sheet No. 78-39.
- All concrete shall be Item 18-S, "Class 1A Concrete for Structures," with Portland Cement Type 2 and Type N except: concrete in slabs shall be Item 18-5 with Portland Cement Type 2A.
- All exposed edges of concrete shall be chamfered 3/4" except as noted.
- All reinforcing bars shall be paid for under Item 28, "Bar Reinforcement for Structures."
- Spiral Bar Shear Connectors shall be paid for under Item 28-A. For detail see Dwg. No. R-5.
- All Structural Steel including beam bearings and anchor bolts shall be paid for under Item 29-F. The color of paint applied to steel surfaces of Ramp Structure shall match the color of paint on the Existing 174th Street Bridge.
- For Expressway Grading, Fencing, and Surfacing, see Sheets No. 26 and 27.
- For Expressway Alignment and Paving Plan see Sheet No. 21 and 22.
- For Electrical Distribution Plan, see Sheets No. 61, 35, 436.
- For Drainage and Utilities see Sheets No. 27 and 31.
- For details of Brick Anchors see Sheet No. 79.
- Details of brick work and coping shall be similar to treatment of access to Piers 1, see Detail Sheet No. 81.
- Dimensions and elevations of the new Ramps are referenced to the dimensions and elevations of the Existing E. 174th Street Bridge. All dimensions and elevations shall be verified in the field before construction is begun.
- All Shop and Field rivets or Bolts shall be 7/8" diameter except as otherwise noted, and shall be "A5."
- Bar Reinforcement shall have 2" clear cover except as otherwise noted.
- A retarding densifier shall be used in Item 18-5.



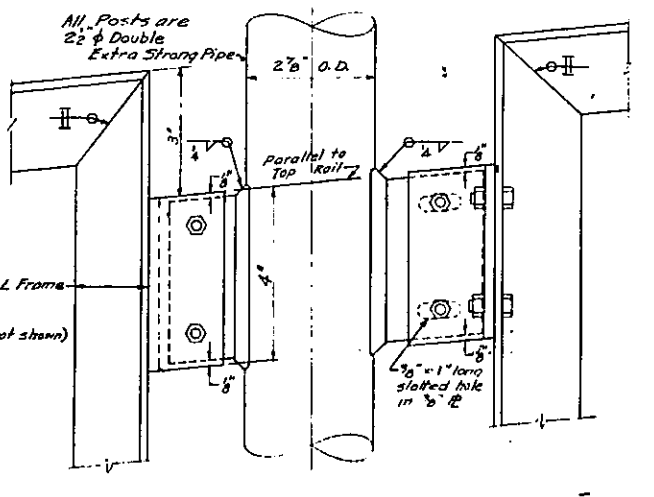
ELEVATION - TYPICAL PANEL
Scale: 3/4" = 1'-0"



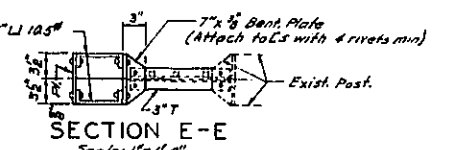
DETAIL "A"
DETAILS OF PIPE RAIL FENCE WITH MESH PANELS
Scale: Half Full Size (except as noted)



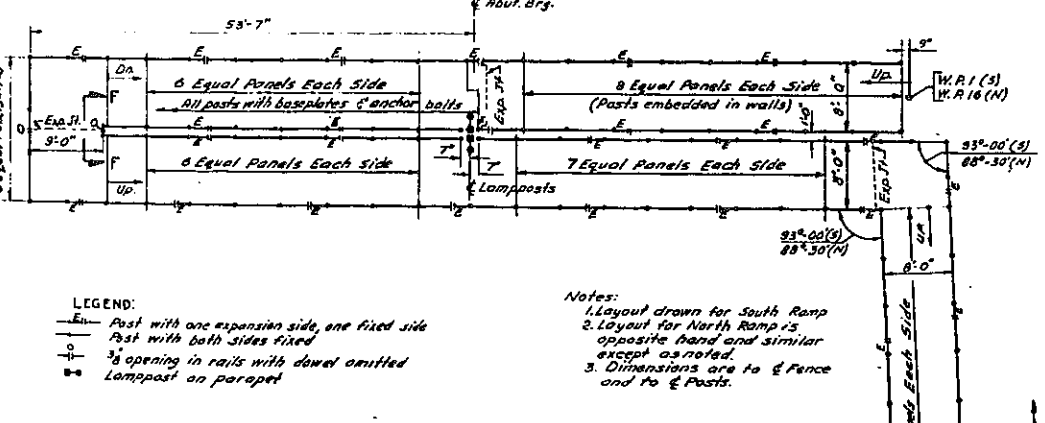
SECTION A-A



ELEVATION B-B



SECTION E-E



PIPE RAIL FENCE LAYOUT
Scale: 1/8" = 1'-0"

LEGEND:

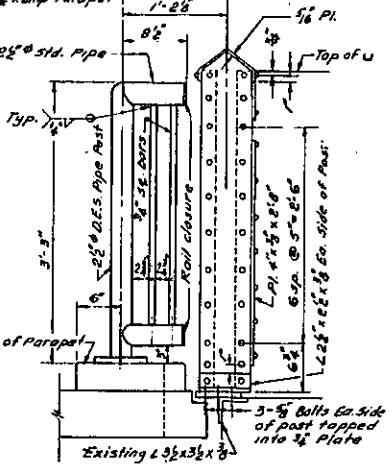
- Post with one expansion side, one fixed side
- Post with both sides fixed
- 3/8" opening in rails with dowel omitted
- Lamppost on parapet

Notes:

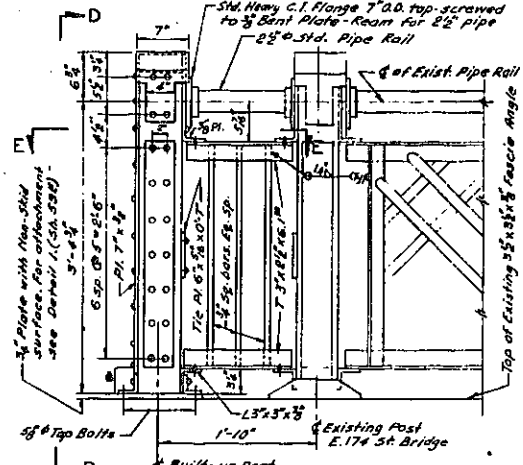
- Layout drawn for South Ramp
- Layout for North Ramp is opposite hand and similar except as noted.
- Dimensions are to E Fence and to E Posts.

RAILING NOTES:

- Expanded Metal Mesh to be welded to one 2 1/2" x 3/8" angle frame. Welds to be 3" on centers maximum. Matching angle frame shall be fitted by plug welding.
- Rails and Posts shall be assembled by plug welding.
- All Posts shall be vertical. Top Rails shall be parallel to and at a constant height above top of parapet or coping at all points.
- All welds to top rail shall be flush and ground smooth.
- Whenever a rail opening "with dowel omitted" is called for both rails ends forming the opening shall be closed. See Detail of Rail Closure.
- For details of base plates for fence posts see Sheet No. 81.
- For details of fence posts embedded in walls see Sheet No. 59A.

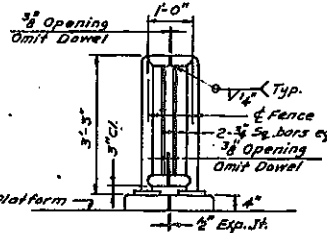


ELEVATION D-D

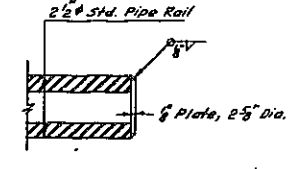


ELEVATION C-C
ELEVATION C' C' (opposite)
Scale: 1" = 1'-0"

- Notes: 1. All connections shall be made with 5/8" rivets, except as noted.
2. Details of Pipe Rail Fence in Elev. D-D apply to West side of Ramp Entrances only. Details of Built-up Post apply to both sides of entrances.



ELEVATION F-F
Scale: 1/2" = 1'-0"



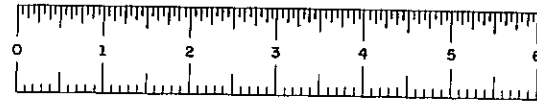
DETAIL OF RAIL CLOSURE
Scale: 3/4" = 1'-0"

In Charge of D. O'Brien
Made by R. J. H.
Traced by C. W. R. & ST.
Checked by D. C. H.

CORRECT AS BUILT
DWG. NO. R-7

ARTHUR V. SHERIDAN EXPRESSWAY
NEW RAMPS AT E. 174 STREET BRIDGE
ESTIMATE OF QUANTITIES
NOTES & FENCE DETAILS

SCALE As shown	DATE Dec. 2, 1957	SHEET NO. 59F
CLARKE & RAPUANO NEW YORK		ENGINEERS



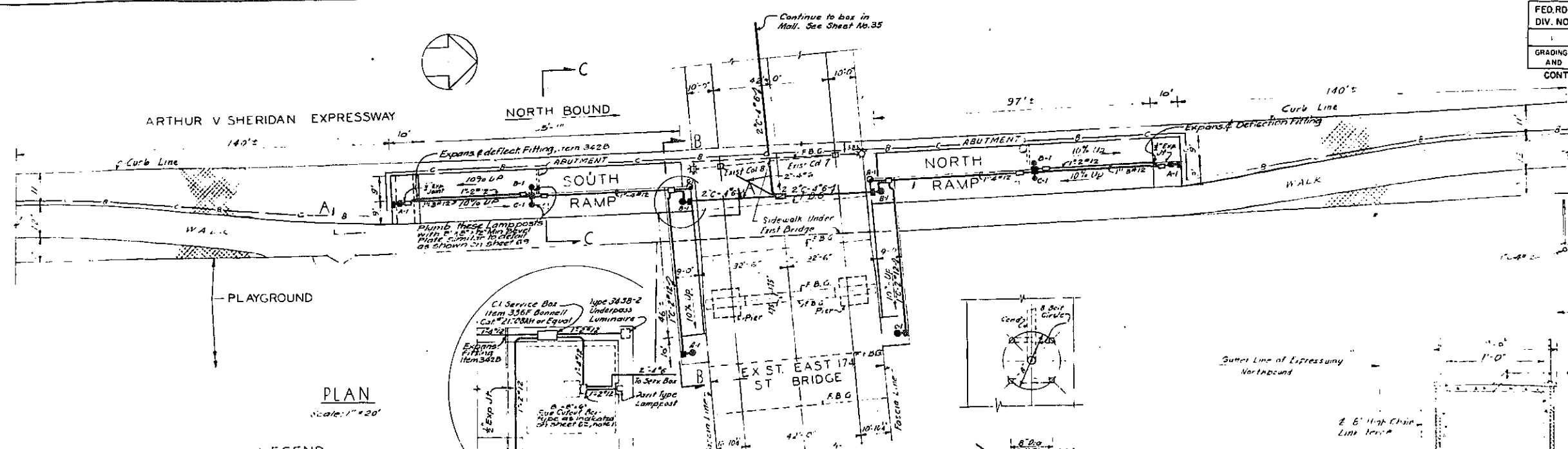
SHEET NO 60

PHASE 60-1

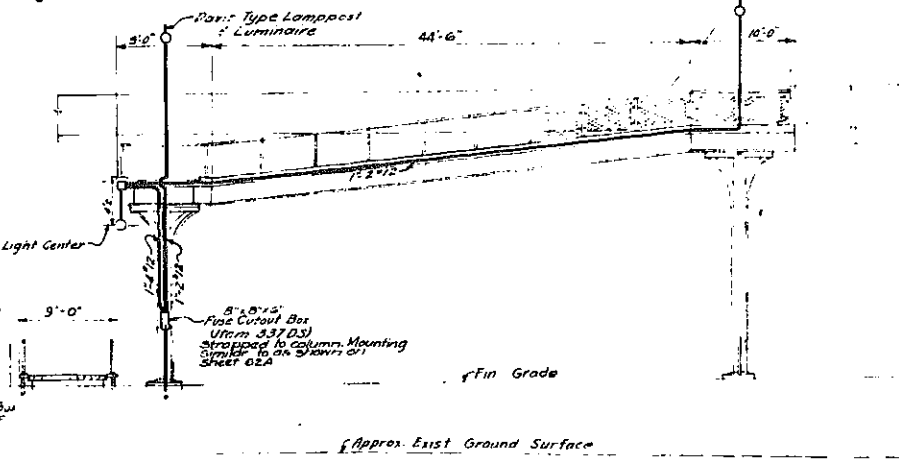
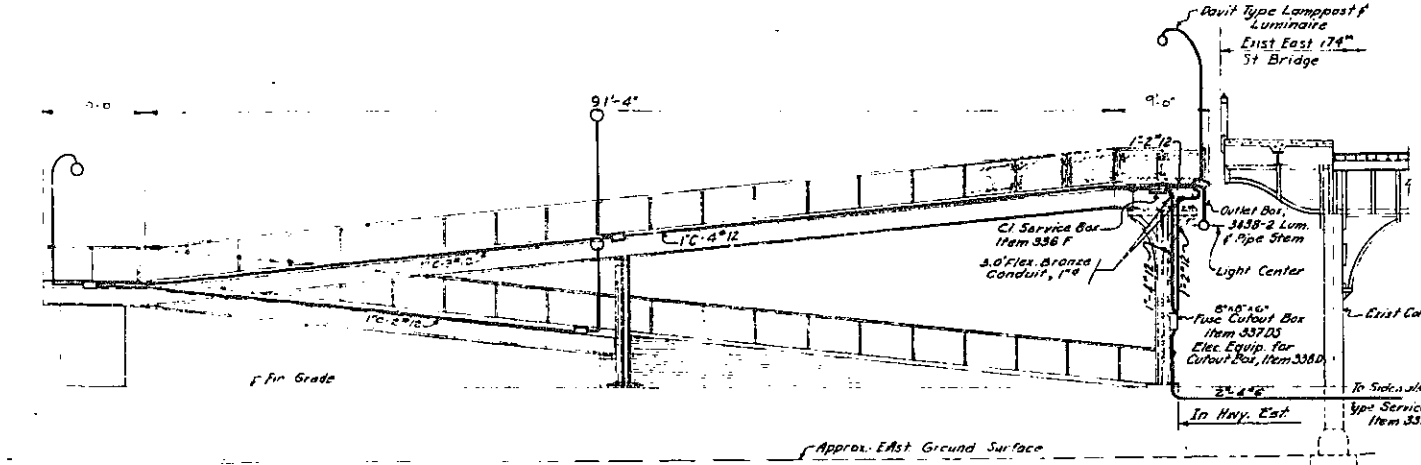
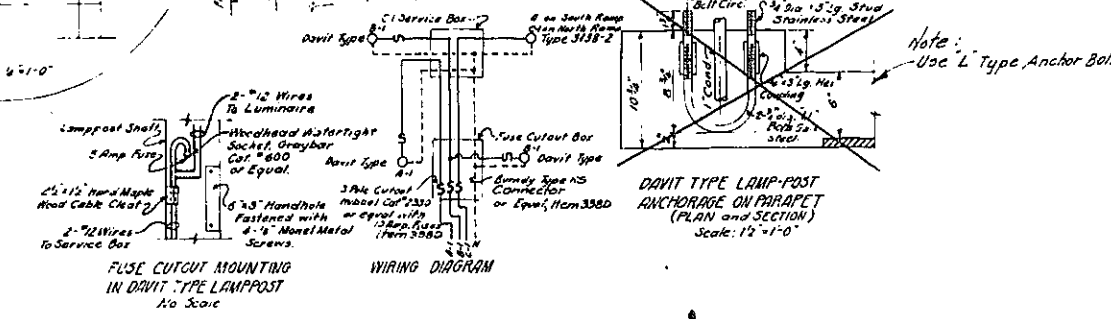
NOT IN CONTRACT

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	EJ-278(45)		61	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E TREMONT AVE
CONTRACT NO. 2



- LEGEND**
- Furnish install Davit type Lamppost and Luminaire on Structure
 - Concrete Service Box, Sidewalk Type "2", Item 335F
 - C.I. Service Box, 8" x 8" x 4" Item 336F, provide with 2" drain
 - Conduit and Wire First number indicates conduit size, second number indicates wire size.
 - Type 3438-2 Underpass Luminaire, Item 328A with Outlet Box and Pyram. Letter denotes phase, number denotes circuit
- Note:**
1. For applicable DWYSG, E Davit Type Lamppost, see Sheet No. 3
 2. For applicable DWYSG, E Outlet Box and 3438-2 Underpass Luminaire Data Sheet No. 3
 3. For Location of Lampposts on Ramp see Sheet 59E, 59F & R



In Charge Of: J.E.E.
Made By: C.S.
Traced By: C.S.
Checked By: A.L.

CORRECT AS BUILT
Rev. 12-2-57

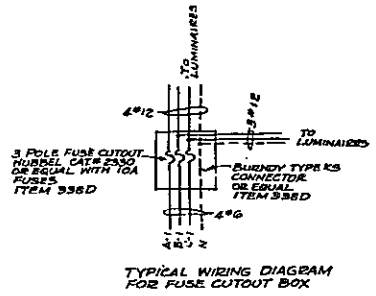
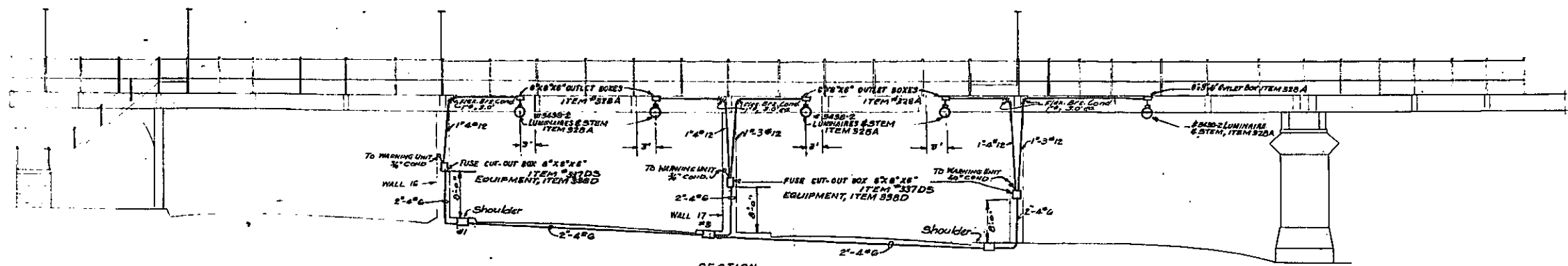
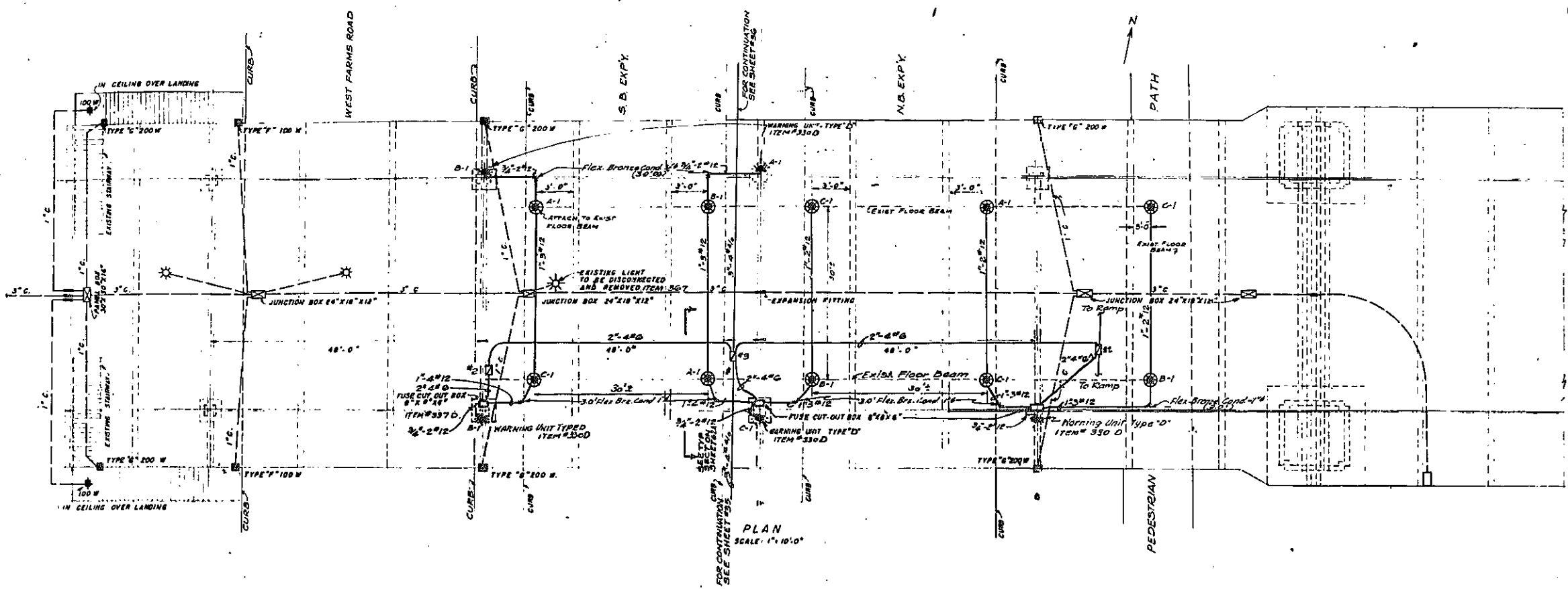
ARTHUR V. SHERIDAN EXPRESSWAY
NEW RAMPS AT E 174 STREET BRIDGE
RAMP LIGHTING

SCALE AS NOTED	DATE 10-11-57	SHEET NO. 61
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CLARKE & RAPUANO
NEW YORK ENGINEERS

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	E-178-(45)		62	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST TO E TREMONT AVE.
CONTRACT NO. 2



- LEGEND**
- ☼ EXISTING TYPE 2801 LIGHTING FIXTURES
 - ◻ EXISTING LAMPPOSTS
 - ⊕ EXISTING CEILING LIGHT ON STAIRWAY LANDINGS
 - ◻ EXISTING JUNCTION BOXES
 - EXISTING CONDUIT AND CABLES

- A-1 OUTLET BOX AND 3438-2 LUMINAIRE - ITEM #328-A LETTER INDICATES PHASE, FIGURE INDICATES CIRCUIT
- ☼ WARNING UNIT - TYPE 'D' - ITEM #330-D
- 1.5" x 1/2" FURNISH & INSTALL CONDUIT & CABLE. FIGURES INDICATE CONDUIT SIZE, NUMBER OF CABLE & SIZE OF WIRE
- ◻ FUSE CUT-OUT BOXES 6"x6"x6" INSTALL 15AMP FUSES, ITEM #337-D (SEE NOTE 1)
- ◻ SIDEWALK TYPE CONC. SERV. BOX # INDICATES SIZE

- NOTES**
- FUSE CUT-OUT BOXES TO BE BONNELL ELECT. MFG. CO. TYPE 51700 OR EQUAL. BOXES TO BE PROVIDED WITH RECESSED HINGED DOOR AND N.Y.C. STANDARD LOCK. YALE & TORRE NO. 511-S OR EQUAL WITH KEY CHANGE #47.
 - #3 KEY (ITEM #337-D), SIMILAR TO F.C.O. BOX AS PER DWG. NO. E-2247 EXCEPT AS MODIFIED HEREIN. ALL PULL BOXES SHALL BE SECURELY FASTENED TO STRUCTURE AND ALL CONDUITS SHALL BE FIRMLY SUPPORTED AT 5'-0" MAXIMUM DISTANCE WITH SUPPORTS AND FITTINGS AS SHOWN ON SHEET 62A & AS APPROVED BY THE DEPT. OF WATER SUPPLY, GAS & ELECT.
 - LUMINAIRES ARE TO BE INSTALLED SO THAT CENTER OF LIGHT IS IN LINE WITH BOTTOM OF GIRDER.
 - FOR DETAILS OF JUNCTION BOXES SEE SHEET 5 FOR DWG. NOS. E-2247 & E-2248.

IN CHARGE OF: SEARS & ROEBUCK & CO. J.E.E.
MADE BY: C.L.W.
TRACED BY: T.L.B. & J.W.
CHECKED BY: C.L.W. & J.E.E.

CORRECT AS BUILT
REV. 1-18-1956

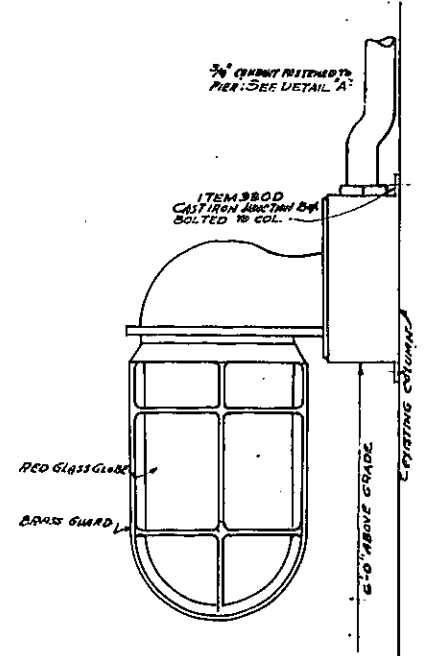
ARTHUR V. SHERIDAN EXPRESSWAY

E. 174 ST. BRIDGE
ELECTRICAL CONDUIT LAYOUT AND BRIDGE LIGHTING

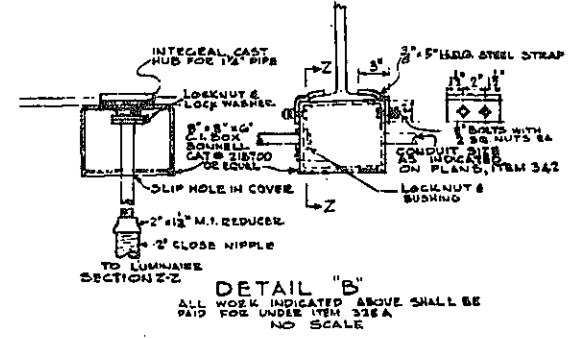
SCALE: 1" = 10'-0" DATE: June 30, 1947 SHEET NO. 62
CLARKE & RAPUANO ENGINEERS
NEW YORK

FEDRD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E1-276-1(45)		62A	139

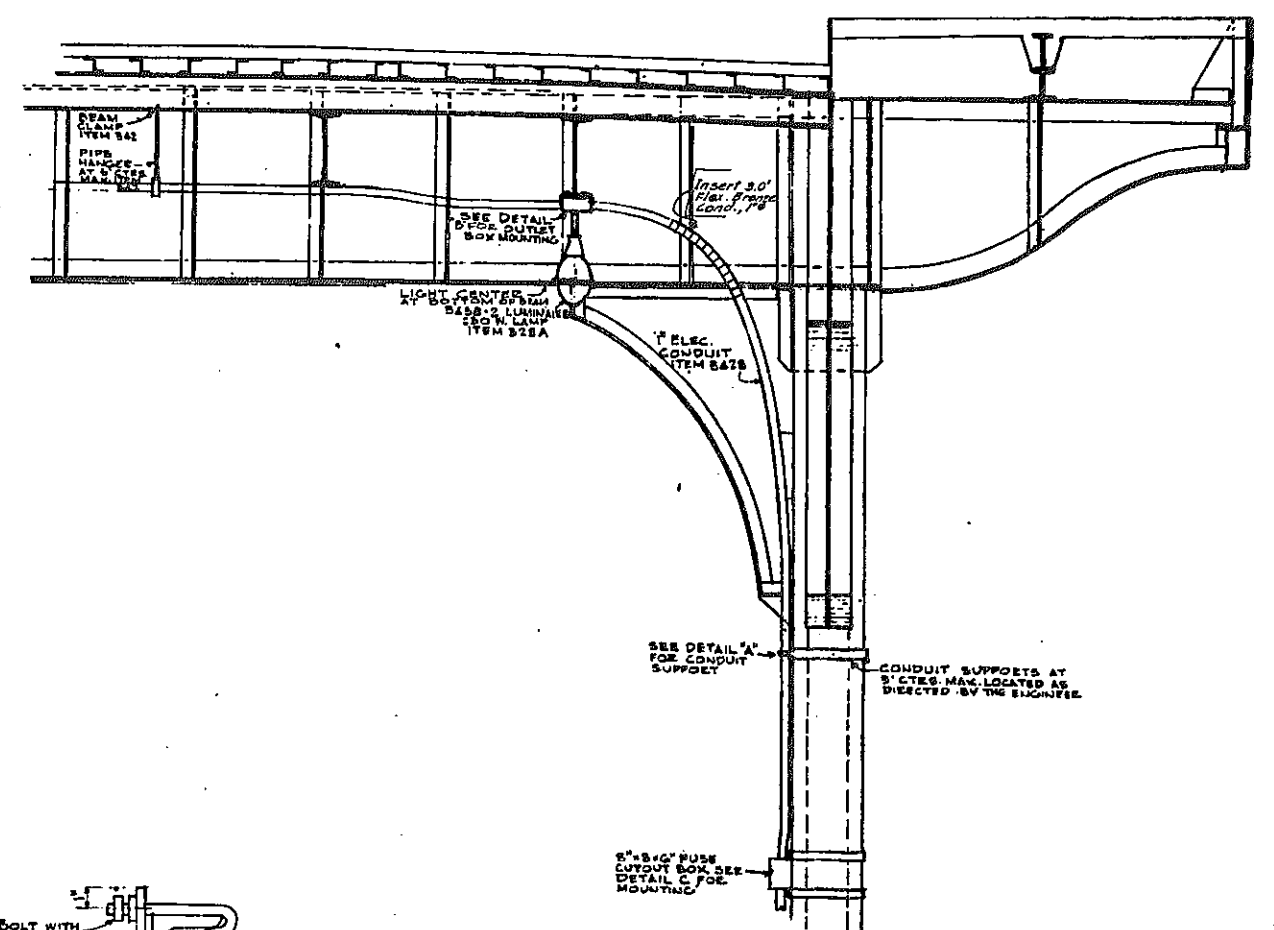
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



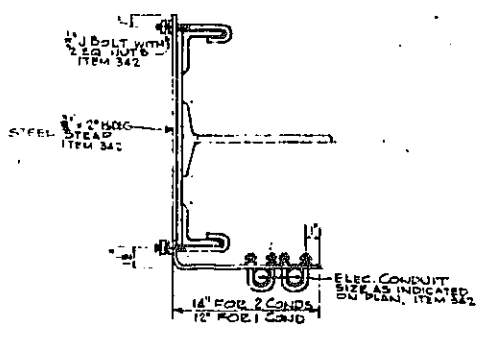
DETAIL OF TYPE D WARNING UNIT
SCALE: 1/2" = 1'-0"
ITEM 3300
RUSSELL # STALL 449 OR EQUAL.



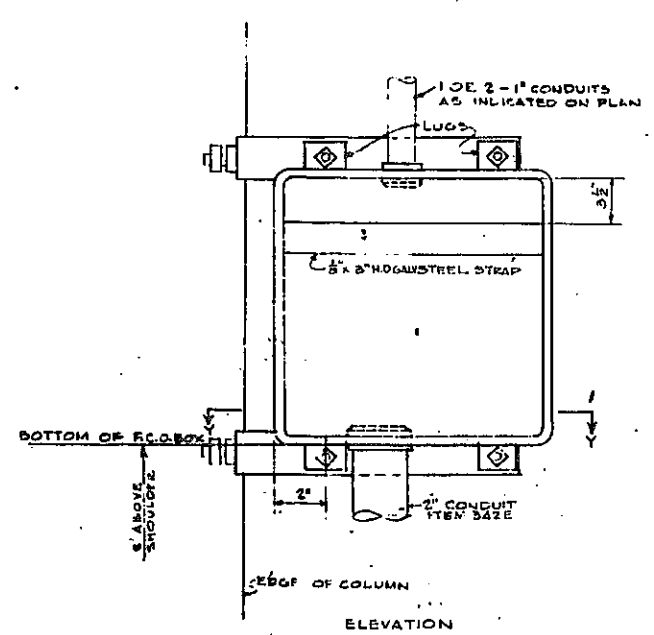
DETAIL "B"
ALL WORK INDICATED ABOVE SHALL BE PAID FOR UNDER ITEM 315A
NO SCALE



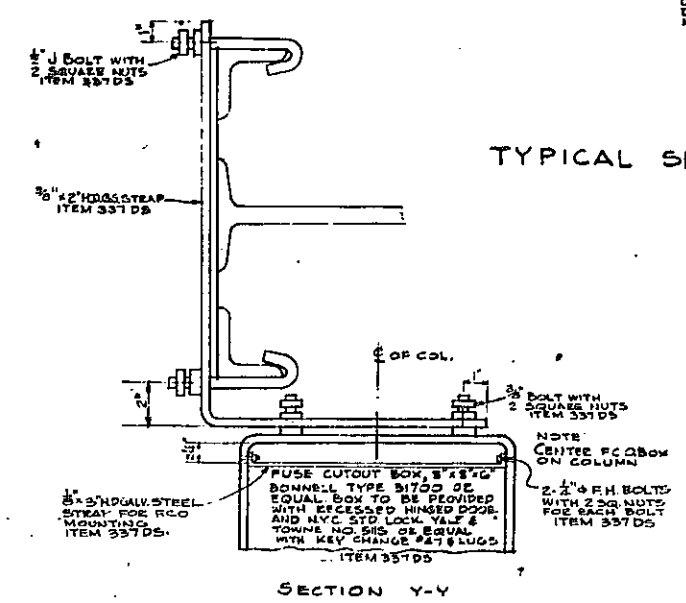
TYPICAL SECTION AT FUSE CUTOUT BOX
SCALE: 1/2" = 1'-0"



DETAIL "A"
NO SCALE



DETAIL "C"
NO SCALE



SECTION Y-Y

NOTES
[SEE SHEET G2 FOR LOCATION OF DETAILS & SECTIONS SHOWN.]

CORRECT AS BUILT

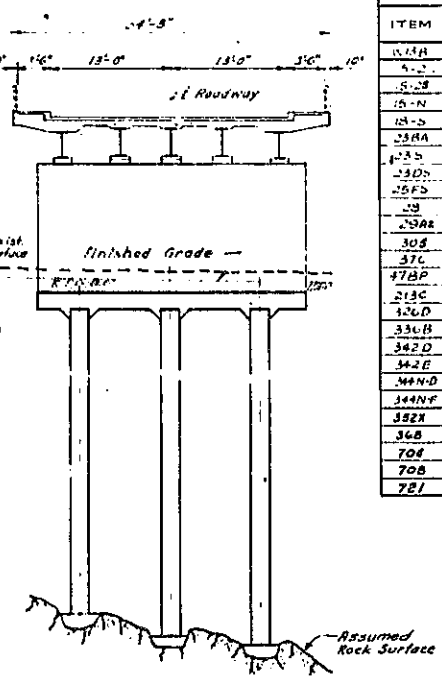
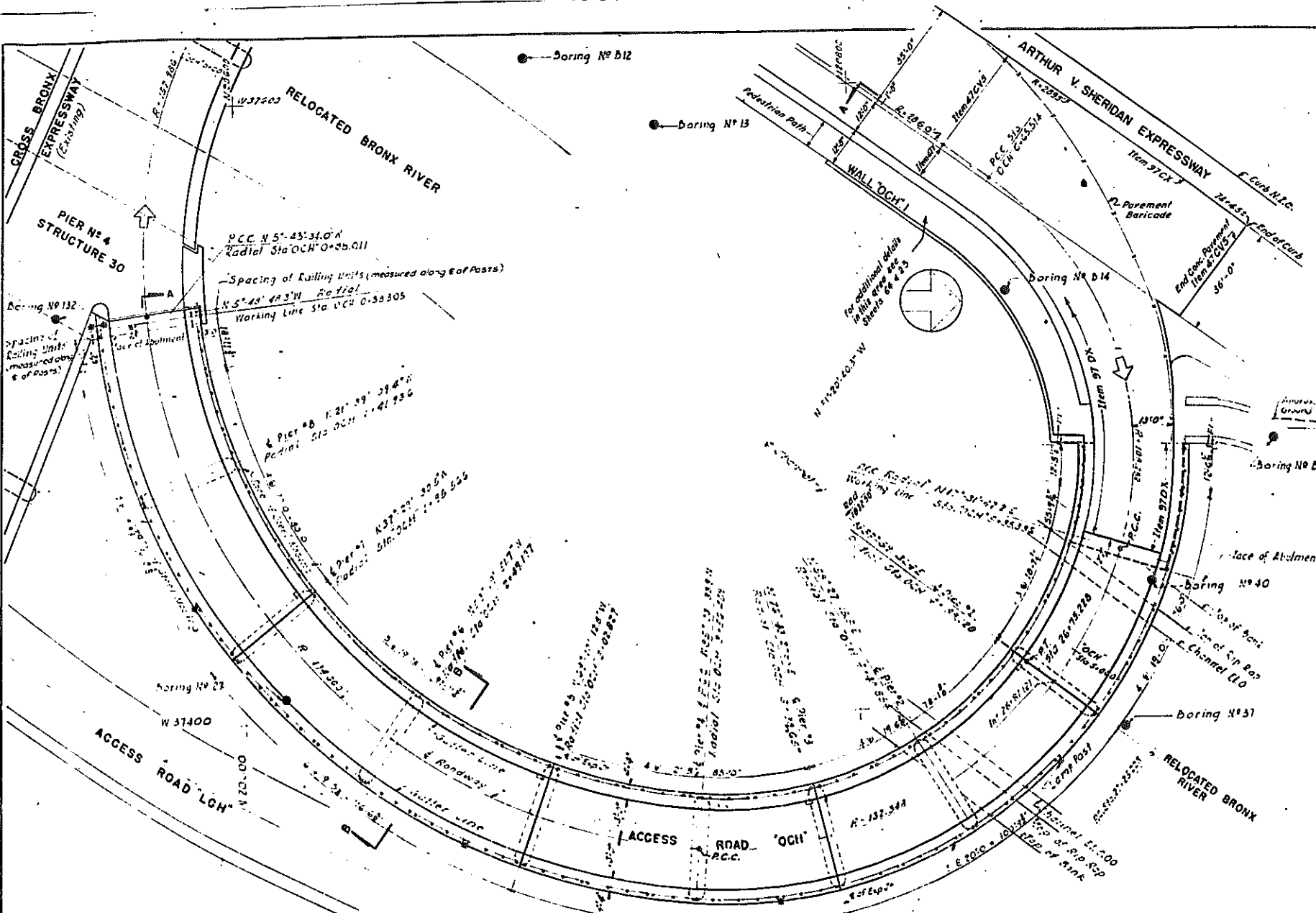
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY		
E. 174 ST. BRIDGE		
ELECTRICAL DETAILS		
SCALE AS NOTED	DATE 10-14-57	SHEET NO. 62A
CLARKE & RAPUANO NEW YORK		ENGINEERS

In Charge Of... J.E.E.
Made By... J.W.
Traced By... J.W.
Checked By... B.V.

FED. RD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N. Y.	E1-210-160		63	139

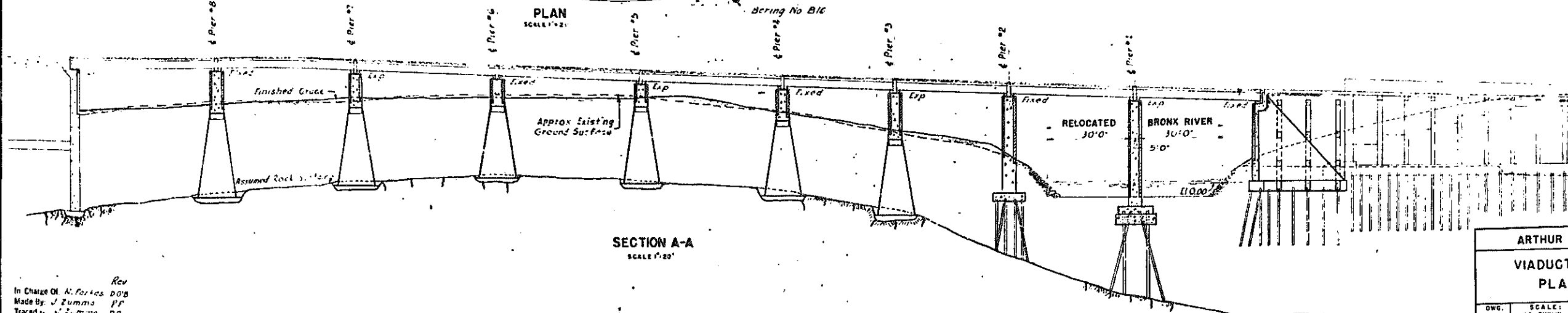
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



ITEM	TITLE	UNIT	QUANTITY		
			NEAT	ROUND	FINAL
114A	Wrought Iron Pipe, 6" Dia.	L.F.	45	50	36
114B	Portland Cement Type 2	Bbl.	840	835	649
114C	Portland Cement Type 28 Plus R.E.A.	Bbl.	249	235	411
114D	Natural Cement Type N	Bbl.	231	240	217
114E	Class 1A Concrete for Structures	C.Y.	508	520	3547
114F	Brick Facing Type A	S.F.	6080	6200	38281
114G	Stone Masonry	S.F.	339	345	32882
114H	Dimension Masonry	S.F.	2099	2140	308750
114I	Steel Fabric Reinforcement	S.Y.	1289	1320	1289
114J	Bar Reinforcement for Structures	Lb.	123205	124000	12428
114K	Structural Steel	Lb.	62152	62152	62152
114L	Miscellaneous Metals	Lb.	552	5300	1120
114M	Metals	L.F.	342	370	361
114N	Concrete Pavement	C.Y.	140	150	166.58
114O	Stone Block Surfacing	S.Y.	233	240	241
114P	Paint & Inst. Type BS-A1 Lamp Post & Luminaire on Struct.	Ea.	4	4	4
114Q	Cast Iron Service Box, Sidewalk Type #2	Ea.	4	4	4
114R	Conduit, Hot Dipped Galv. Steel Pipe, 1/2" Dia.	L.F.	24	25	21
114S	Conduit, Hot Dipped Galv. Steel Pipe, 2" Dia.	L.F.	465	470	486
114T	Furnish & Install Conductor #2 R.I. N.C.	L.F.	48	50	105
114U	Furnish & Install Conductor #2 R.I. N.C.	L.F.	1860	1950	2180
114V	Rubber Joint Material	Gal.	36	36	36
114W	Furnish and Install Ballasts	Ea.	4	4	4
114X	C.I. Serv. Box Sidewalk Type 24" x 12" x 16"	Ea.	4	4	4
114Y	American Bridge Co. Drafting Room Expense	L.S.	0	0	100%
114Z	Scuppers Delivered to site but not used	L.S.	0	0	100%

- NOTES:
- The piers, abutments and wing walls for this structure have been constructed by others, except facings of piers 8 thru 10 and the North Abutment.
 - Work to be done under this contract shall include completion of the entire structure, including pier, abutment and wing wall facings.

- LEGEND
- Test Boring
 - Lamp Post
 - - - - - Paving
 - = Bridge Scupper



- REFERENCES:
- Alignment Plan Sheet No. 22 & 23
 - Profile Sheet No. 39
 - Drainage & Grading Plan Sheet No. 27 & 28
 - Miscellaneous Details Sheet No. 71
 - Electrical Plan Sheet No. 36, 37 & 69

Rev
In Charge O. L. Perkins D.O.B.
Made By J. Zummo P.P.
Traced by J. Zummo P.P.
Checked By S. Ross F.X.W.
Maurice Brown

Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
VIADUCT STRUCTURE NO. 52
PLAN AND SECTIONS

DWG. NO. 330-82	SCALE: AS SHOWN	DATE: 4-3-1954	SHEET NO. 63
CLARKE & RAPUANO			ENGINEERS

CORRECT AS BUILT

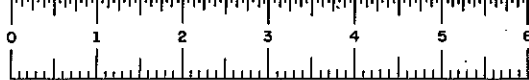
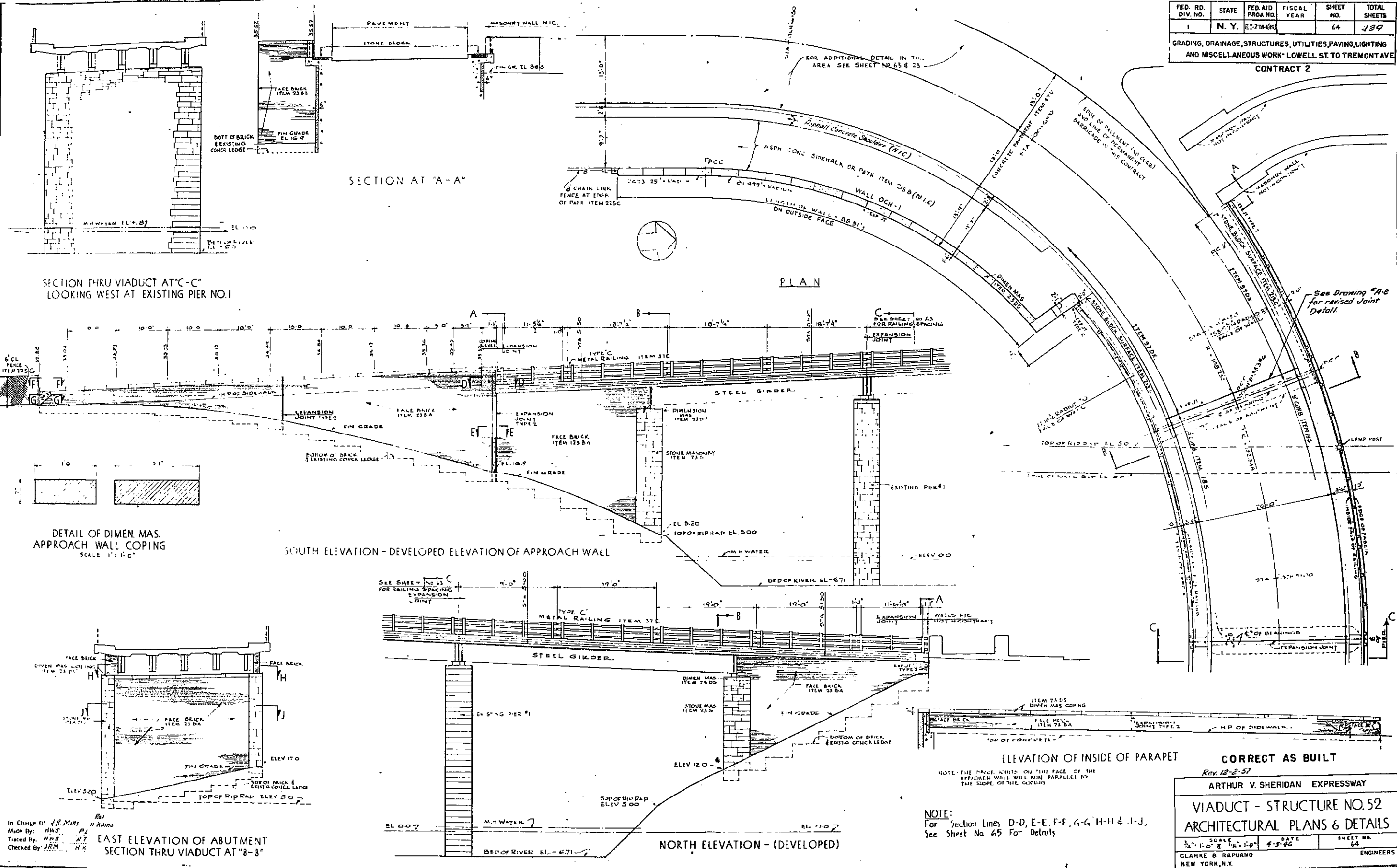


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	ET-218-66		64	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO TREMONT AVE
 CONTRACT 2



See Drawing #9-B for revised Joint Detail.

NOTE:
 For Section Lines D-D, E-E, F-F, G-G, H-H & I-I, See Sheet No 65 For Details

CORRECT AS BUILT
 Rev. 12-2-57
 ARTHUR V. SHERIDAN EXPRESSWAY
 VIADUCT - STRUCTURE NO. 52
 ARCHITECTURAL PLANS & DETAILS

SCALE - 1/8" = 1'-0"	DATE - 4-5-66	SHEET NO. - 64
CLARKE & RAPUANO ENGINEERS NEW YORK, N.Y.		

In Charge Of: J.R. Mills
 Made By: HWS
 Traced By: HWS
 Checked By: JRM

EAST ELEVATION OF ABUTMENT
 SECTION THRU VIADUCT AT "B-B"

SOUTH ELEVATION - DEVELOPED ELEVATION OF APPROACH WALL

NORTH ELEVATION - (DEVELOPED)

DETAIL OF DIMEN MAS. APPROACH WALL COPING
 SCALE 1" = 1'-0"

SECTION AT "A-A"

PLAN

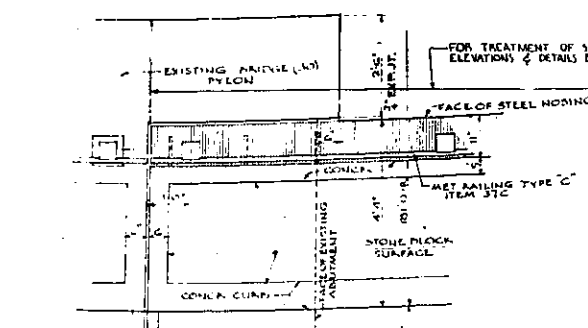
SECTION THRU VIADUCT AT "C-C" LOOKING WEST AT EXISTING PIER NO. 1



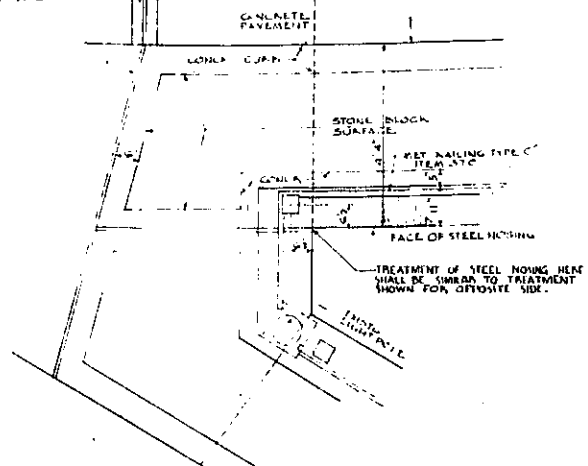
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	E.T. 216-85		65	139

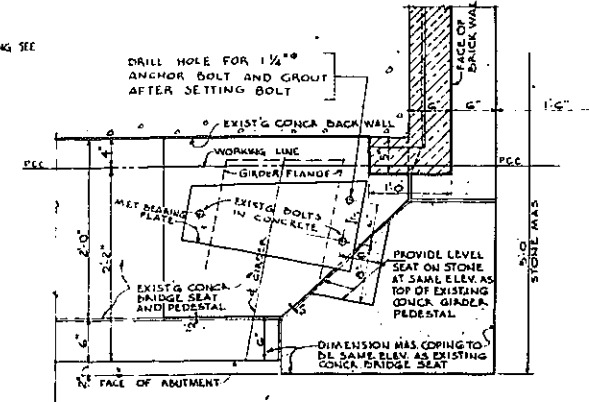
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO TREMONT AVE
CONTRACT 2



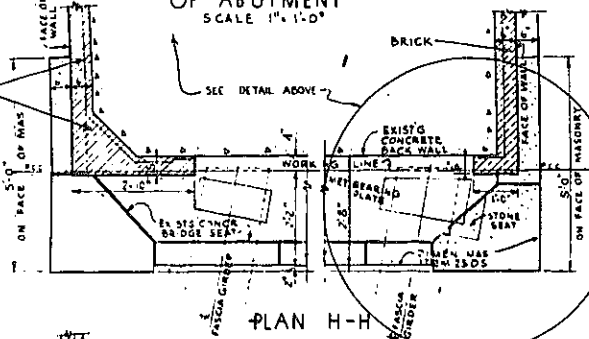
For Revised Joint Details see Drawing # A-B



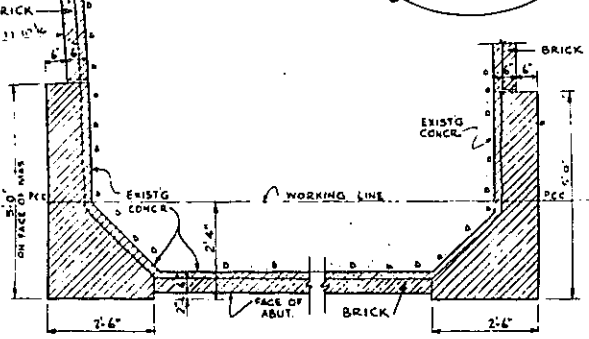
PLAN OF VIADUCT AT S ABUTMENT



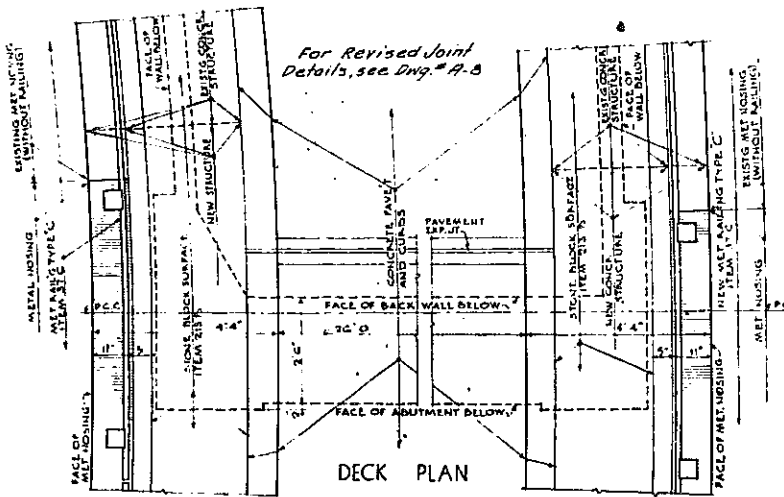
DETAIL PLAN OF NORTH CORNER OF ABUTMENT
SCALE 1" = 1'-0"



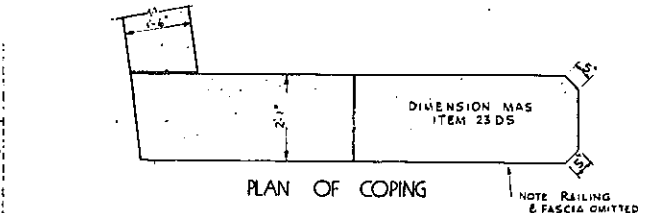
PLAN H-H



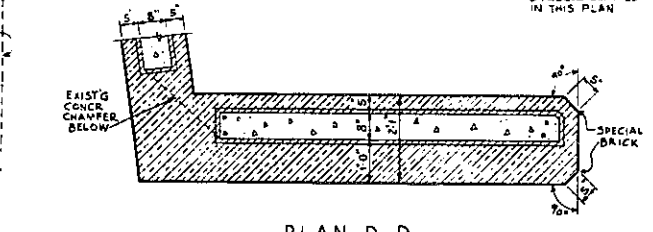
PLAN J-J



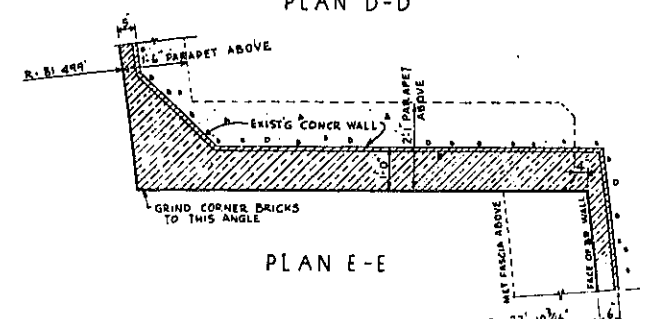
PLANS OF VIADUCT AT N. ABUTMENT



PLAN OF COPING

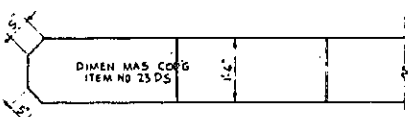


PLAN D-D

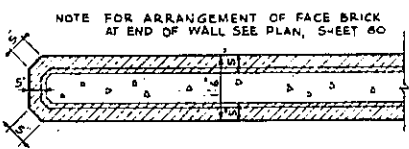


PLAN E-E

VIADUCT PYLON
FOR LOCATION OF PLANS SEE SHEET 64

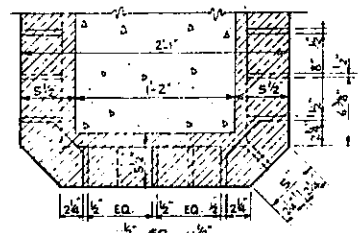


PLAN F-F



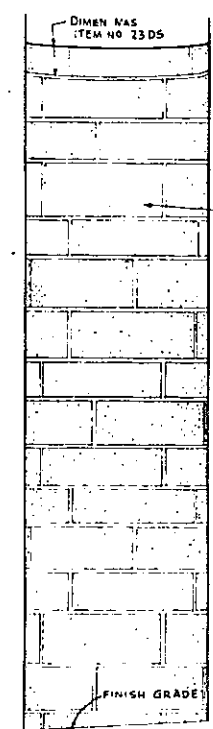
PLAN G-G

END OF VIADUCT APPROACH WALL

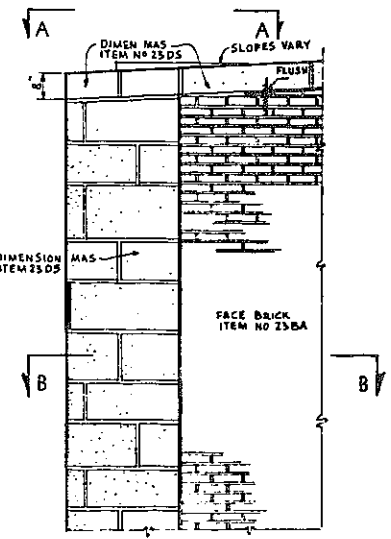


FACE BRICK IN VIADUCT PYLON
SCALE 1 1/2" = 1'-0"

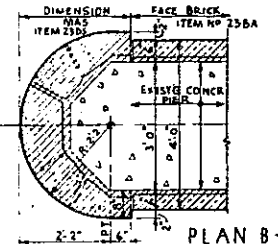
CORNER SPLAYS SHALL BE STANDARD S-6 EXTERNAL OCTAGON SHAPE FURTHER GROUND TO MEET CONDITIONS AND DETAIL



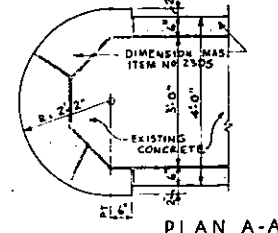
END ELEV.



SIDE ELEVATION



PLAN B-B



PLAN A-A

TYPICAL VIADUCT PIER

NOTE: For Plans Marked D-D, E-E, F-F, G-G, H-H & J-J, See Sheet No 64 For Location.

CORRECT AS BUILT

Rev 12-2-51

ARTHUR V. SHERIDAN EXPRESSWAY

VIADUCT - STRUCTURE NO 52
ARCHITECTURAL DETAILS

SCALE	DATE	SHEET NO.
1/2" = 1'-0" & AS NOTED	4-3-46	65

CLARKE B. RAPUANO ENGINEERS
NEW YORK, N.Y.

In Charge of J.R.M.H. H.K.
Made By H.W.S. P.L.
Traced By H.W.S. R.T.
Checked By J.R.M. H.K.

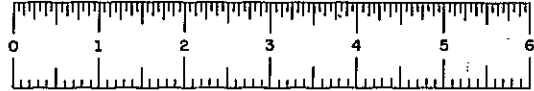


PLATE 60-1

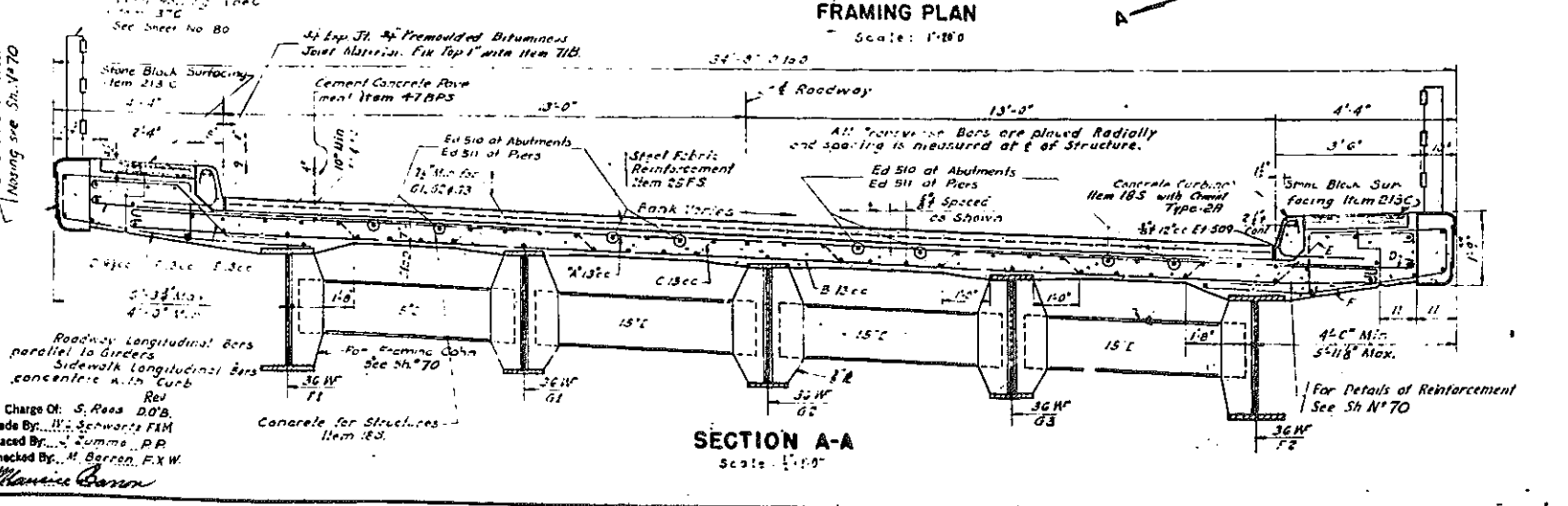
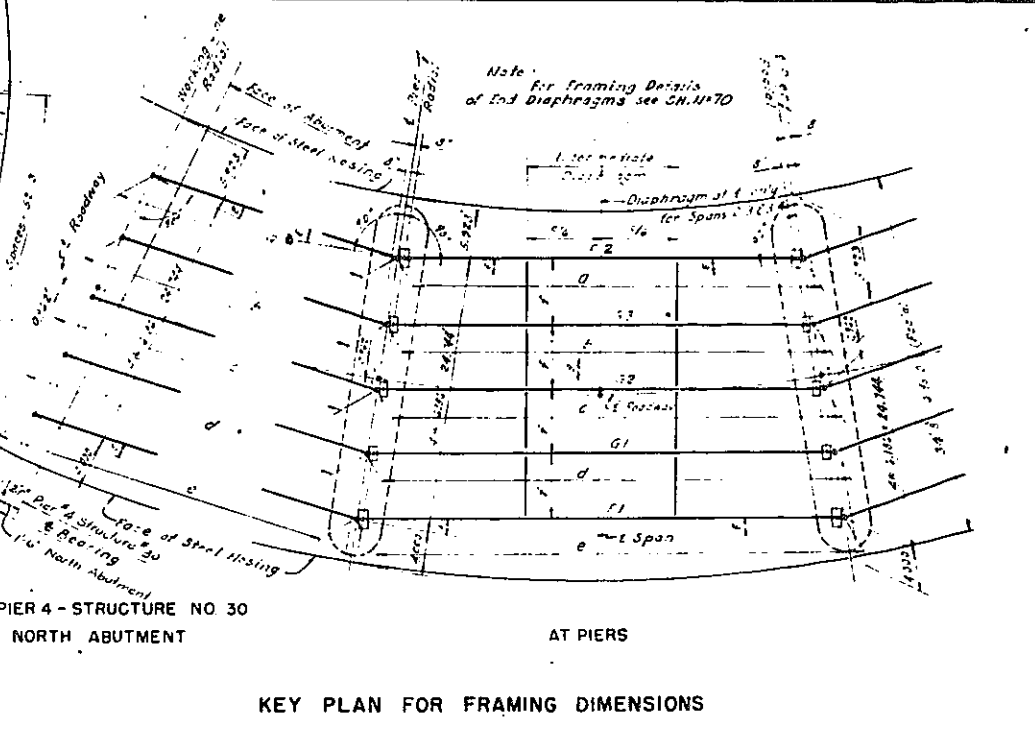
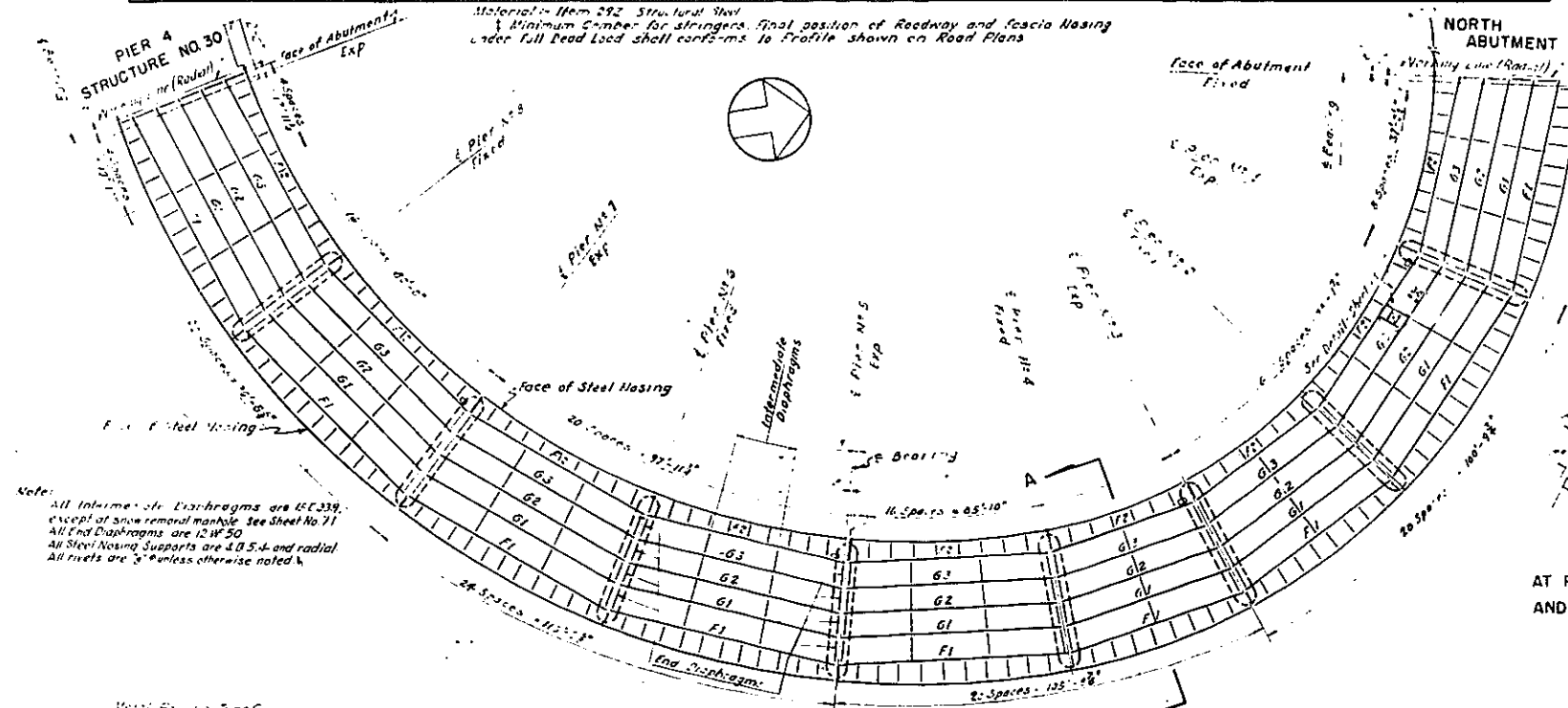
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	E1278(K)		66	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO. 2

DESIGN DATA																
SPAN		NORTH ABUTMENT TO PIER N#2					PIER N#2 TO PIER N#4					PIER N#4 TO PIER N#4 STRUCTURE N#30				
MARK		F1	F2	G1	G2	G3	F1	F2	G1	G2	G3	F1	F2	G1	G2	G3
SHEAR (KIP)	DEAD LOAD	71.4	84.8	24.5	25.3	24.1	64.6	51.0	23.6	22.5	21.5	81.0	66.2	30.3	29.3	28.4
	LL. ROADWAY	25.2	3.7	35.4	34.9	34.9	23.2	20.6	34.4	34.0	33.5	25.0	21.9	36.6	36.3	35.9
	IMPACT	7.8	6.5	10.2	10.2	10.2	6.6	5.2	10.2	10.2	10.0	6.7	6.3	10.2	10.2	10.2
	LL. SIDEWALK	11.1	6.1	0	0	0	0	7.4	0	0	0	12.0	9.8	0	0	0
	TOTAL	121.4	88.8	70.1	70.4	69.3	104.4	85.2	68.2	66.7	65.0	124.9	104.2	77.1	75.8	74.5
MOMENT (KIP FT)	DEAD LOAD	32.0	37.2	31.9	29.1	29.2	70.0	47.3	25.4	23.0	21.0	113.0	80.9	41.2	38.3	36.0
	LL. ROADWAY	28.6	17.0	36.4	34.8	34.2	21.9	15.2	31.6	28.6	26.4	30.4	22.9	42.8	41.0	39.2
	IMPACT	8.2	5.7	10.4	10.1	7.5	6.8	4.6	9.4	8.6	7.9	8.4	5.6	10.0	11.6	11.2
	LL. SIDEWALK	14.9	8.5	0	0	0	11.1	6.8	0	0	0	16.8	12.0	0	0	0
	TOTAL	143.8	87.5	78.7	74.0	71.9	110.0	73.9	66.4	60.2	55.3	158.6	132.4	104.0	93.9	86.4
S.M. REQ. IN 18 KSI	97.6	58.5	42.5	42.2	44.8	74.6	49.3	44.2	40.1	36.9	112.2	88.3	70.6	67.6	57.6	
36" W. WGL. PIF	230	177	160	150	150	230	150	150	150	300	245	230	182	182	170	
S.M. USED (IN)	1131.2	499.7	341.0	300.7	300.9	874.1	552.2	502.9	502.9	502.9	1105.1	892.5	835.5	821.2	574.1	
MAX. FLANGE STRESS KSI	17.1	14.2	11.5	11.2	11.1	15.1	11.6	10.9	10.4	10.2	18.3	17.8	15.2	14.5	13.7	
D.L. DEFLECT (IN)	2.805	2.843	2.473	2.244	2.349	2.225	0.448	0.322	0.265	0.227	1.053	0.748	0.418	0.376	0.350	
C to C BEARING	50.397	41.507	28.197	25.002	23.804	44.903	37.047	42.939	40.974	37.011	55.288	48.161	34.083	32.379	32.674	
TYPE OF END BEARING	A	B	B	B	B	A	B	B	B	B	A	A	A	A	A	

FRAMING DIMENSIONS								
SPAN	a	b	c	d	e	f	g	E(SKEW)
NORTH ABUT. IN PIER N#1	42.962	45.159	47.357	49.554	51.752	53.950	56.148	10°13'52"
PIER N#1 TO PIER N#2	do	do	do	do	do	do	do	do
PIER N#2 TO PIER N#4	50.397	40.361	42.325	44.289	46.253	48.217	50.181	7°30'03"
PIER N#4 TO PIER N#4	50.316	52.270	54.224	56.178	58.132	60.086	62.040	7°55'11"
PIER N#4 TO PIER N#30	do	do	do	do	do	do	do	do
TOP OF MASONRY GIRDER	F1	G1	G2	G3	F2	See sheet # 60 for adjustment of Masonry Plate elevations		
R. PIER N#4 ST.30	ELEV.	47.41-A	47.47-B	47.53-C	47.59-D			



- LEGEND
- 13 Bridge Scupper
 - 14 Snow Removal Manhole

- REFERENCES
- Typical Structural Details - Sh. #70
 - Metal Railing - Sh. #80
 - Electrical Layout - Sh. #89

CORRECT AS BUILT
Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

VIADUCT STRUCTURE NO. 52
FRAMING PLAN AND SECTION

DWG. NO.	SCALE	DATE	SHEET NO.
P32-50	AS SHOWN	4-3-1948 Rev. 12-2-50	66

CLARKE B. RAPUANO
NEW YORK, N.Y.

ENGINEERS

Note: All Intermediate Diaphragms are EC-339, except at snow removal manhole. See Sheet No. 71. All End Diaphragms are 12W-30. All Steel Hoisting Supports are 4B-5-A and radial. All rivets are 3" unless otherwise noted.

For Details of Steel Hoisting see Sh. N#70

In Charge Of: S. Ross, D.O.B.
Made By: H. Schwartz, F.M.
Traced By: J. Summa, P.P.
Checked By: M. Garren, F.X.W.
Manasse Garren

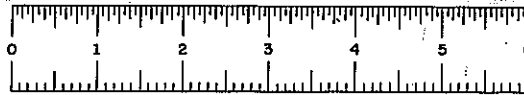
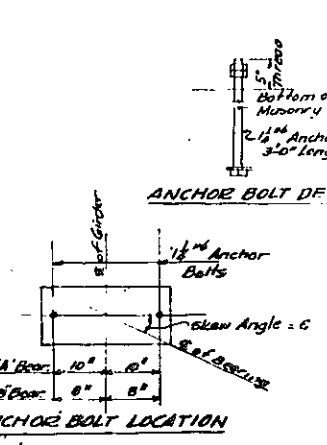
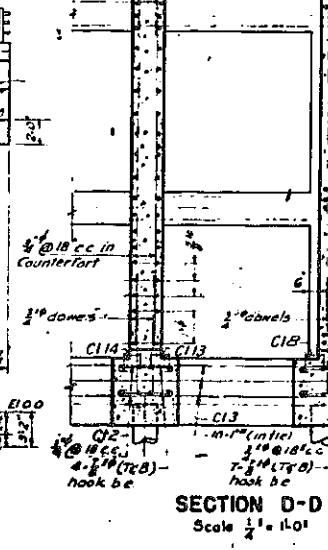
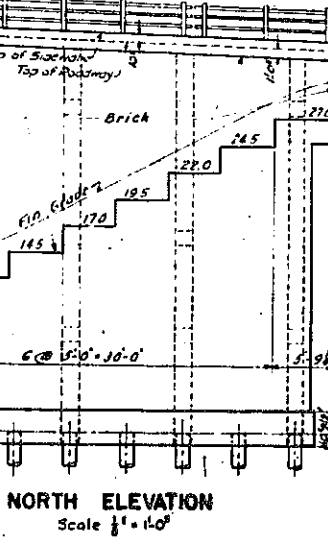
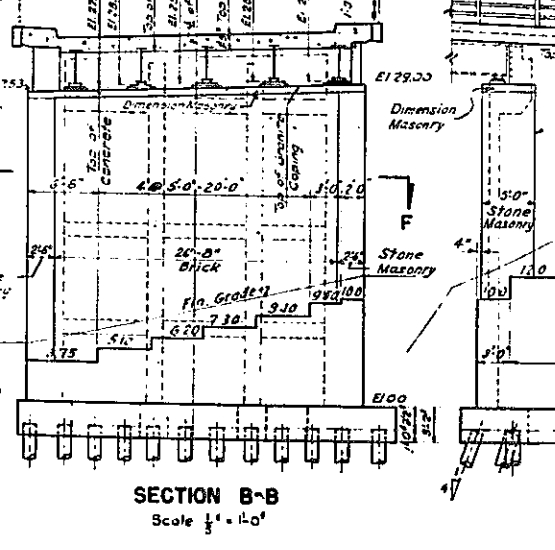
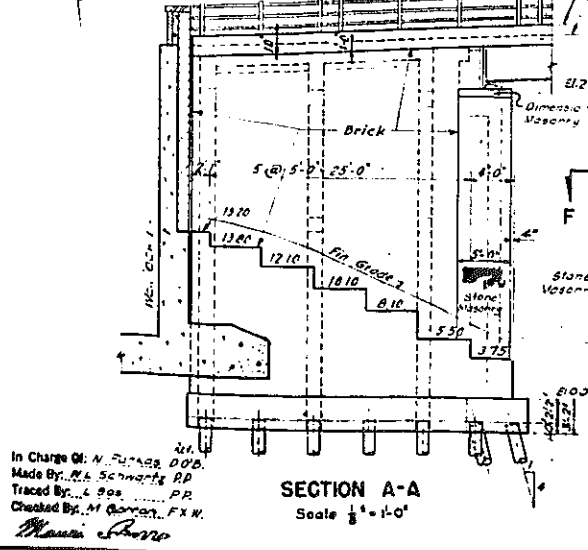
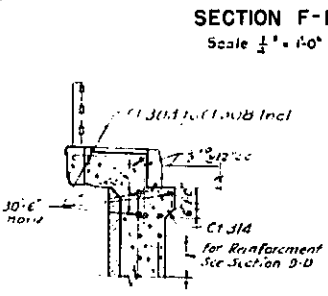
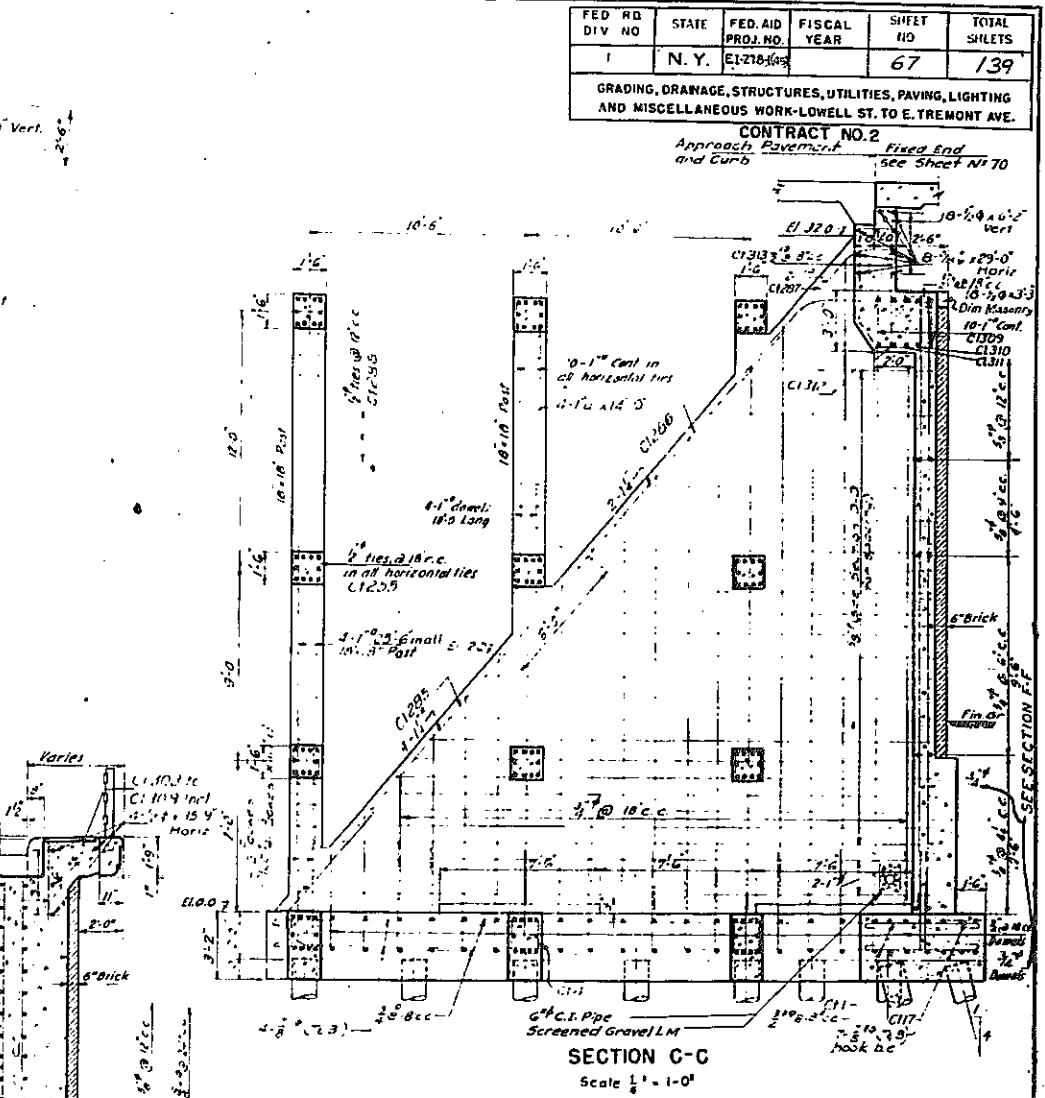
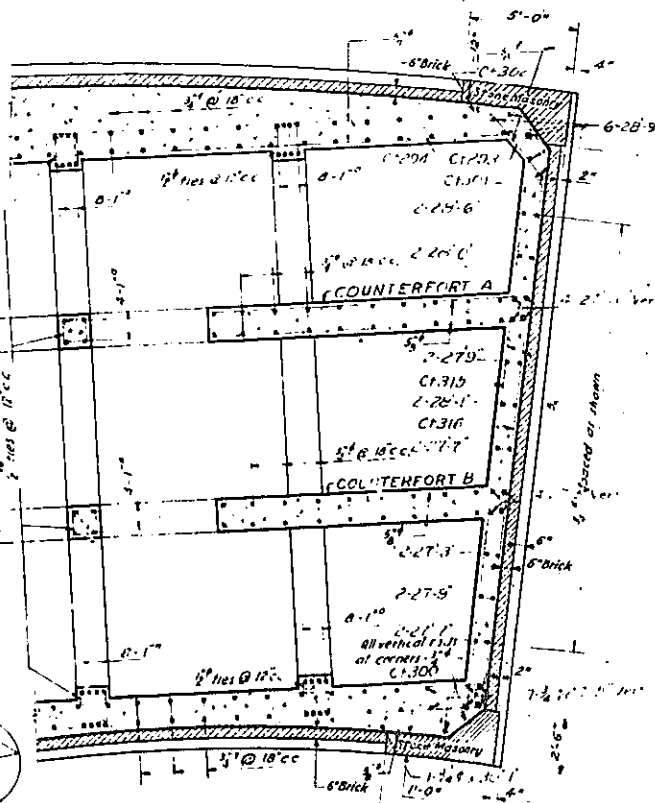
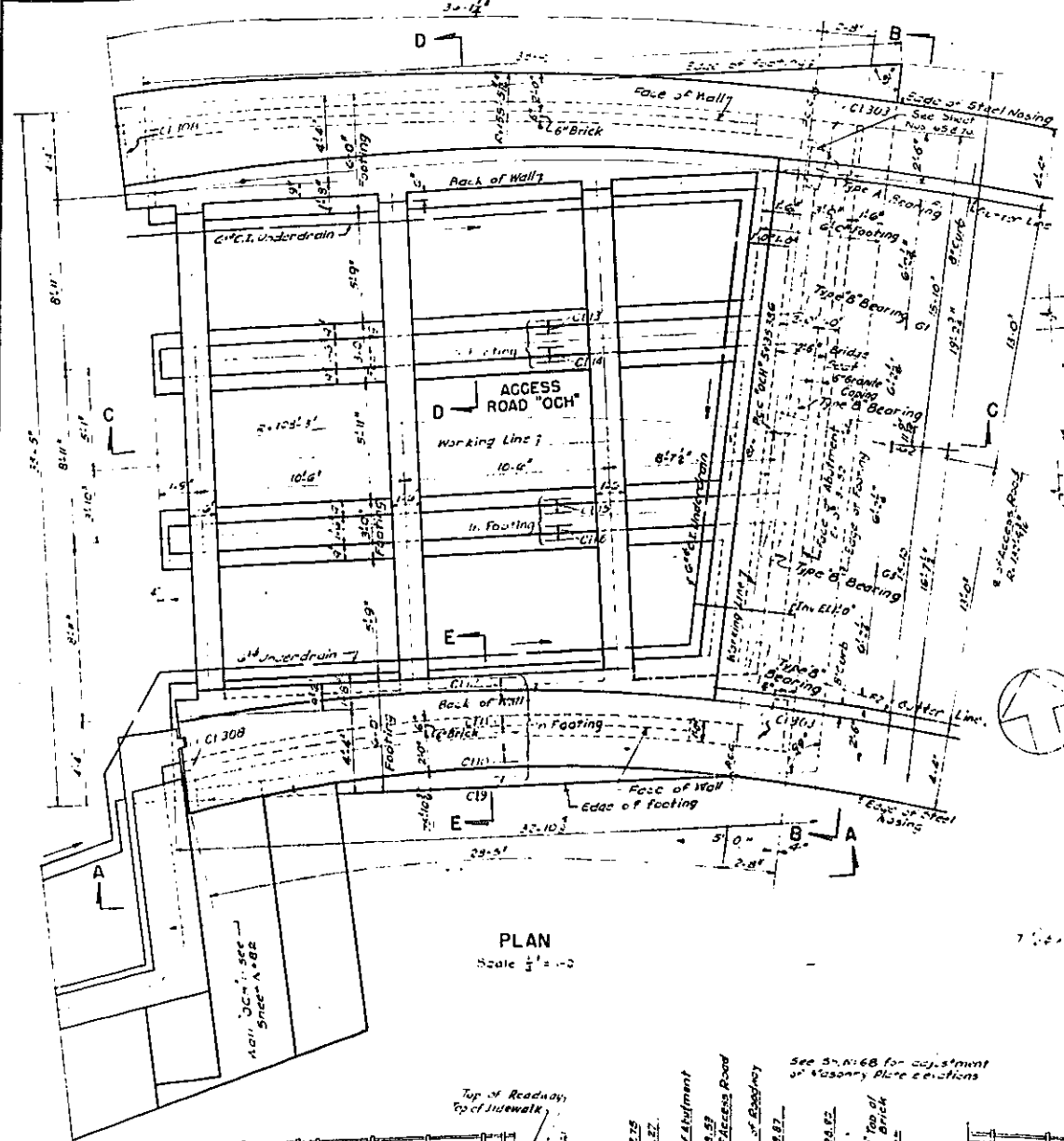


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	E1278-103		67	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
 CONTRACT NO. 2
 Approach Pavement, Fixed End and Curb
 see Sheet No. 70



NOTES:
 1. See notes on Sheet No. 43
 2. Where existing waterproofing has been removed or deteriorated and concrete is bare apply Item 415

CORRECT AS BUILT
 Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

VJADUCT STRUCTURE NO. 52
NORTH ABUTMENT

DWG. NO. P33-5C	SCALE: AS SHOWN	DATE: 4-5-1948	SHEET NO. 67
CLARKE & RAPUANO			ENGINEERS
NEW YORK, N. Y.			

In Charge: N. F. ...
 Made By: M. A. ...
 Traced By: L. ...
 Checked By: M. ...



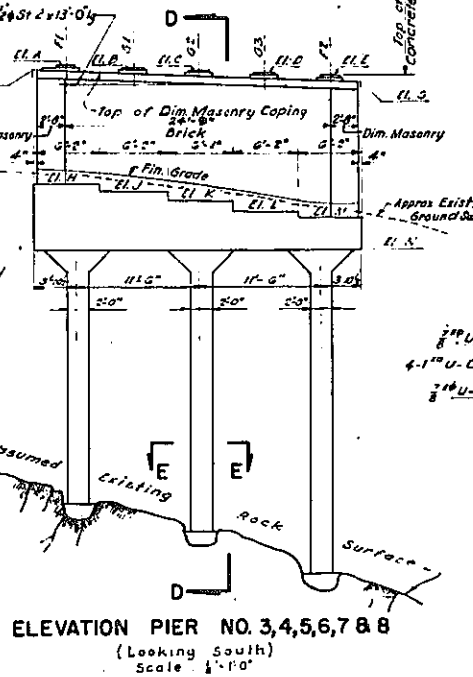
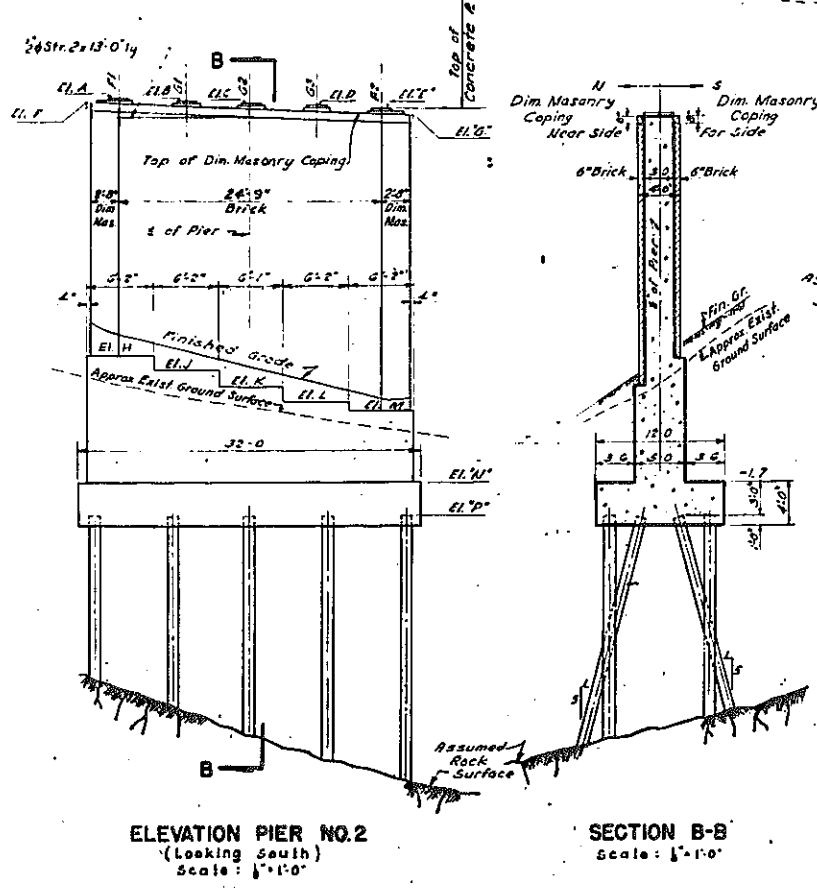
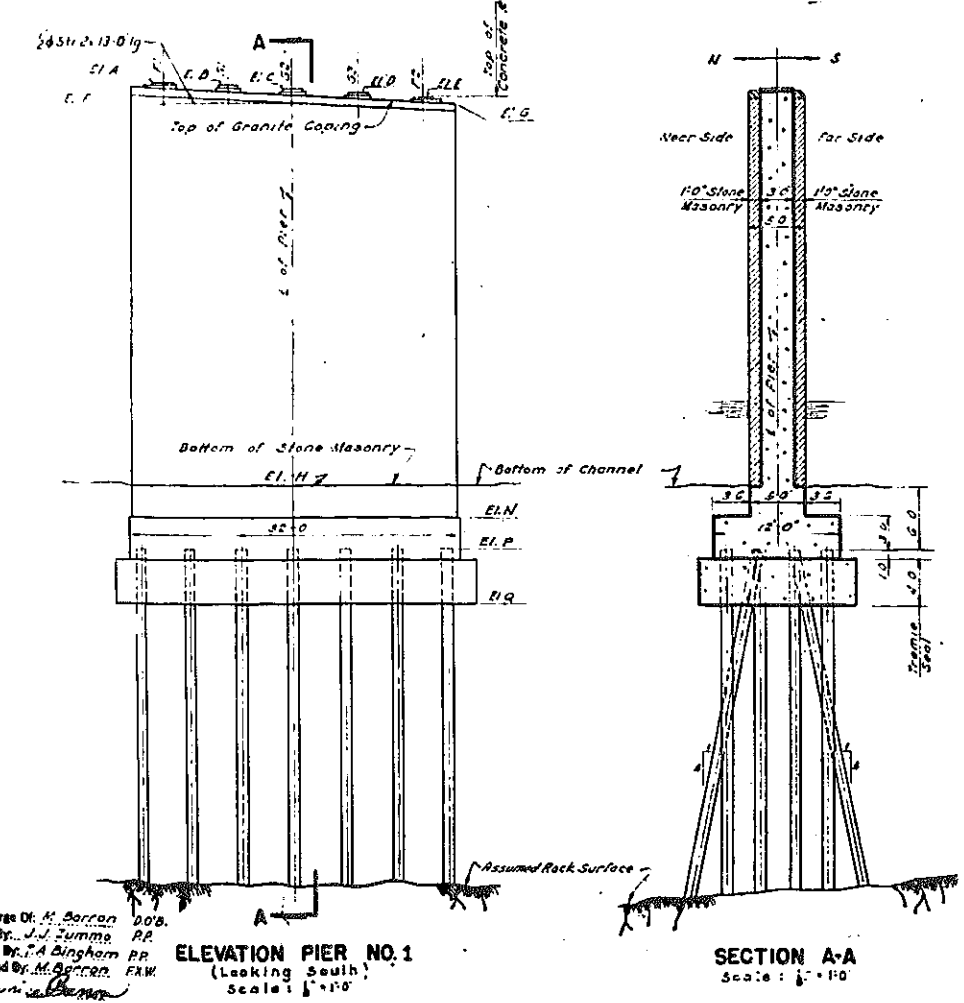
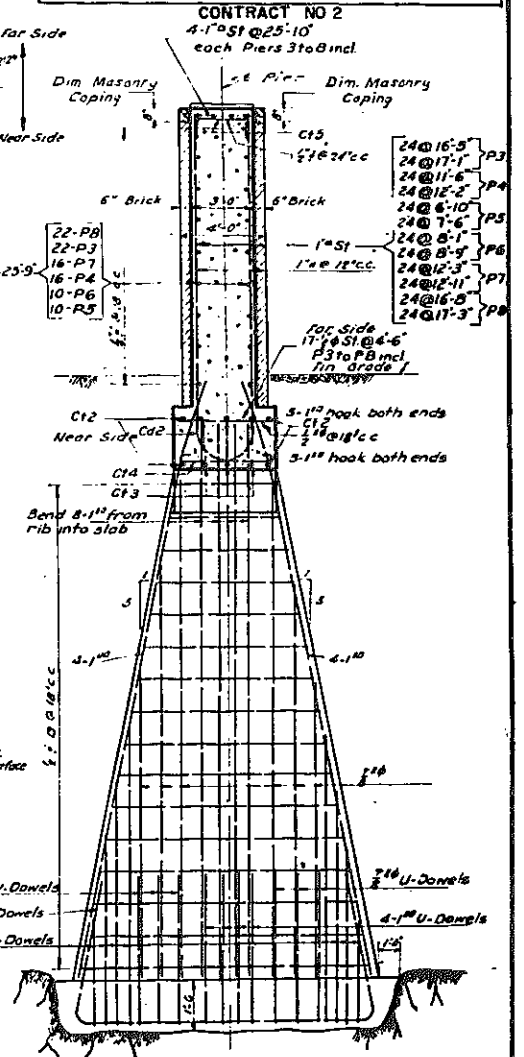
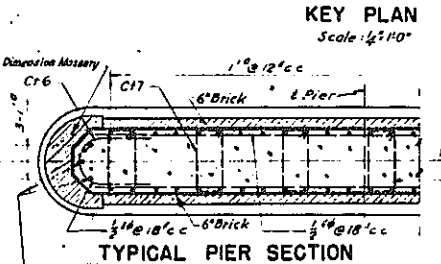
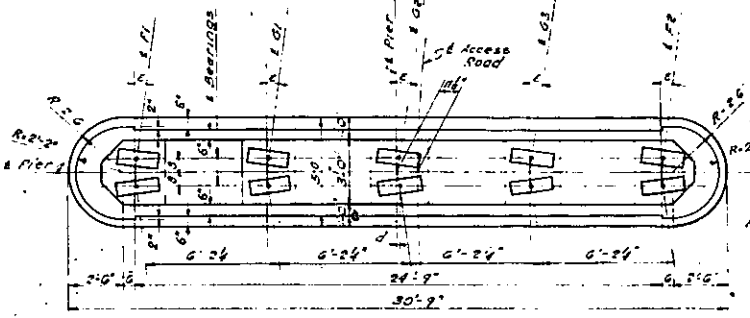
FIASL 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EZ-218-65		68	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.

PIER DATA		1		2		3		4		5		6		7		8		
PIER SIDE		Near	Far	N	F	N	F	N	F	N	F	N	F	N	F	N	F	
Skew to E		10°13'52"	10°13'52"	9°08'03"	10°13'52"	9°08'03"	9°08'03"	7°55'11"	9°08'03"	7°55'11"	7°55'11"	7°55'11"	7°55'11"	7°55'11"	7°55'11"	7°55'11"	7°55'11"	
Dimension d		0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	0'-1 1/2"	
ELEVATIONS CONCRETE STONE OR BRICK	A	30.92	31.01	33.28	33.29	35.42	35.49	37.44	37.43	40.06	40.07	42.69	42.73	45.26	45.27	47.93	47.93	
	B	30.90	30.95	33.19	33.18	35.31	35.34	37.35	37.28	40.00	40.05	42.65	42.65	45.21	45.21	47.31	47.34	
	C	30.53	30.60	32.89	32.88	34.97	35.02	36.99	36.96	39.63	39.69	42.27	42.27	44.83	44.84	46.95	46.95	
	D	30.20	30.33	32.55	32.54	34.67	34.70	36.67	36.64	39.34	39.38	41.96	41.98	44.54	44.58	46.68	46.68	
	E	29.64	29.72	32.02	32.06	34.14	34.21	36.17	36.18	38.81	38.85	41.45	41.51	44.02	44.09	46.17	46.18	
	F	31.08		33.41		35.53		37.59		40.16		42.79		45.42		48.10		50.83
	G	29.51		31.83		33.92		36.05		38.63		41.26		43.89		46.05		48.05
	H	6.71	-5.71	9.30	11.30	10.9	21.50	27.40	28.00	33.80	33.80	34.50	34.50	33.10	33.10	31.30	31.00	31.00
	J			7.80	13.30	20.0	20.90	26.60	27.60	33.80	33.80	33.75	33.75	32.75	32.75	29.55	30.55	30.55
	K			6.30	9.00	19.0	20.00	25.60	27.00	33.25	33.25	33.50	33.50	32.40	32.40	30.10	30.10	30.10
L			4.30	7.50	18.0	18.90	25.10	26.30	32.50	32.50	33.25	33.25	31.00	31.00	29.70	29.70	29.70	
M			4.00	4.50	17.50	17.50	24.50	25.00	31.70	31.70	33.00	33.00	31.60	31.60	29.25	29.25	29.25	
BEARING TYPE	N	-9.70	-9.70	-1.70	-1.70	14.50	14.50	21.50	21.50	28.70	28.70	30.00	30.00	28.30	28.60	25.25	25.25	
	P	-12.70	-12.70	-5.70	-5.70													
	Q	-17.70	-17.70															
F1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
F2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
G1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
G2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	

Elevations A, B, C, D, E, F, G shall be lowered by amount equal to the excess of the actual camber over the & Dead Load Deflection.



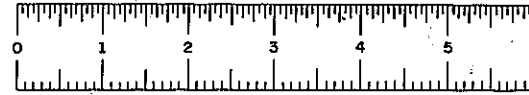
NOTES:
1. See Notes on Sheet No. 63

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
VIADUCT STRUCTURE NO. 52
PIERS 1 TO 8 INCL.

DWG. P55-6C	SCALE AS SHOWN	DATE 4-3-1958	SHEET NO. 68
CLARKE & RAPUANO			ENGINEERS
NEW YORK, N. Y.			

In Charge: H. Barton DOR.
Made By: J.J. Summa RP.
Traced By: T.A. Bingham RP.
Checked By: M. Gordon FRK.



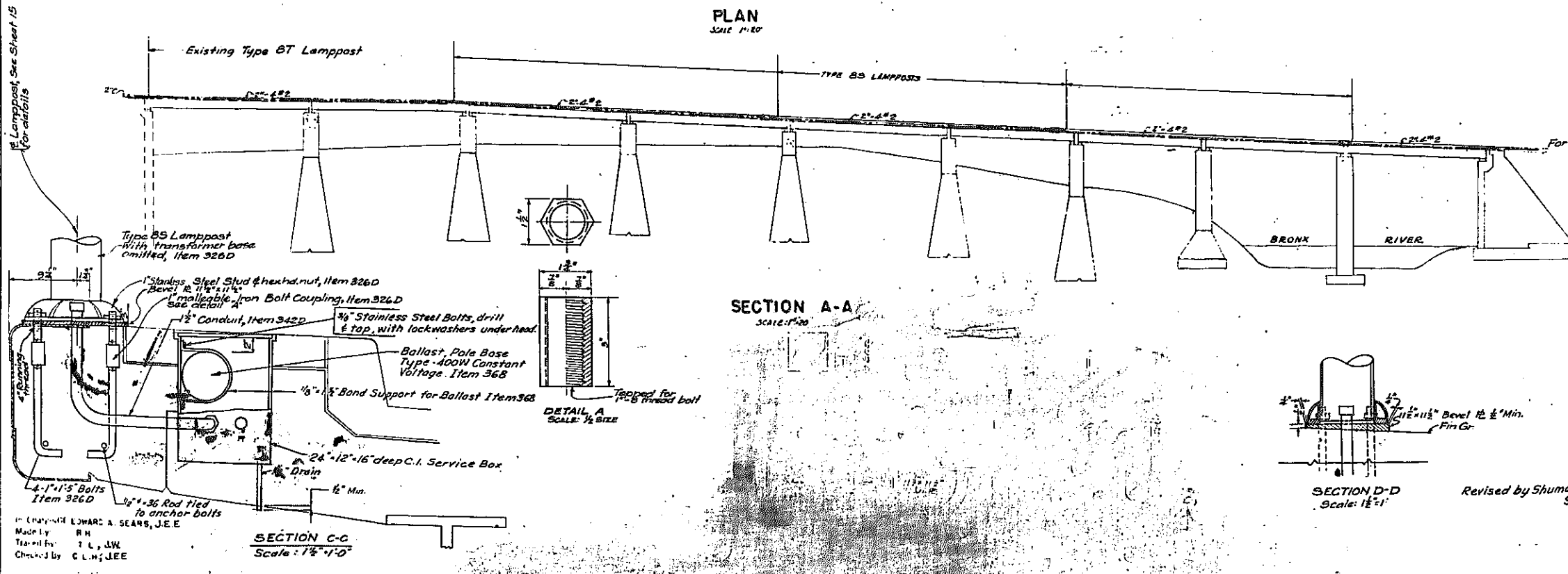
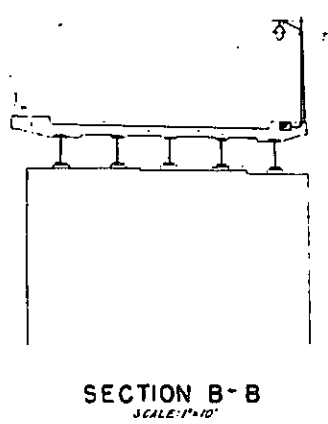
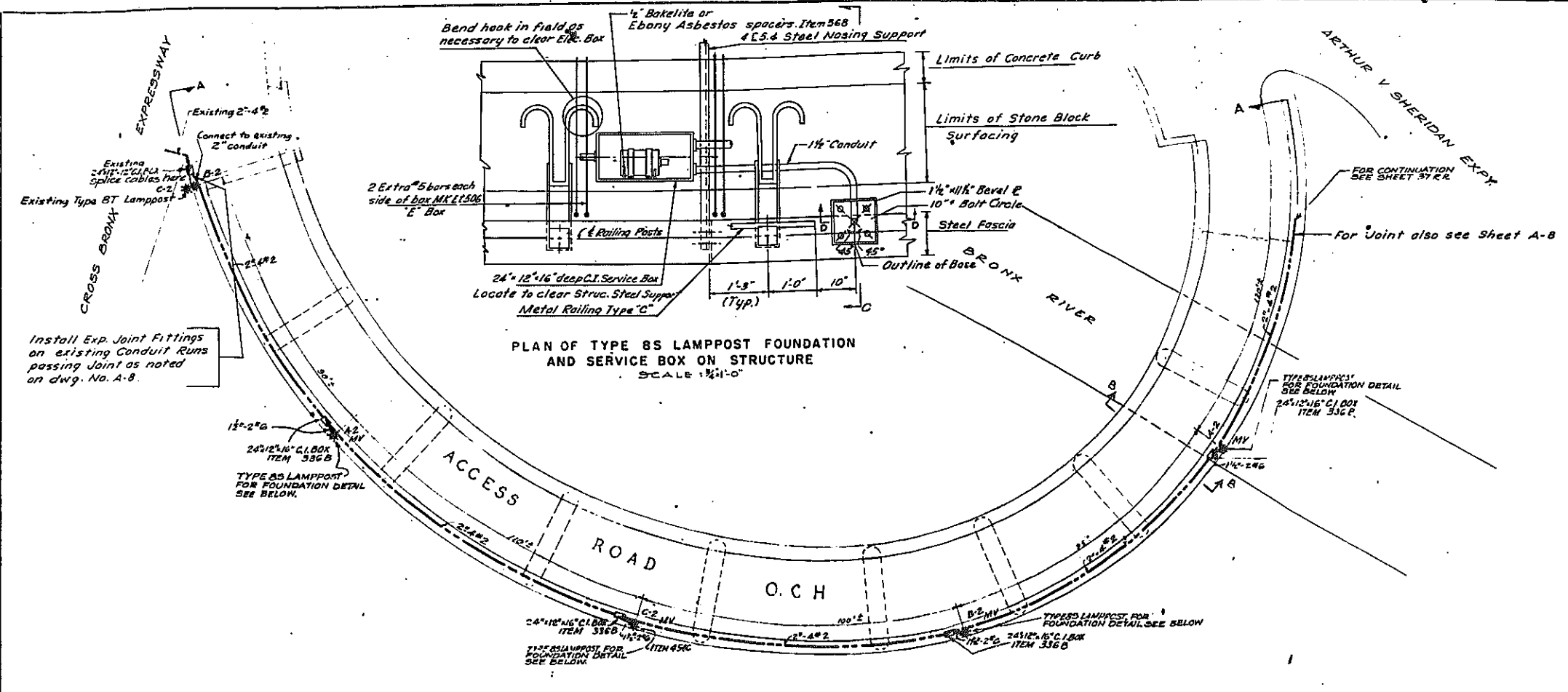
PHASE 60-1

69R

FED. RD. DIV. NO.	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
	N. Y.	EX-218-1040	69	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK LOWELL ST. TO E. TREMONT AVE.

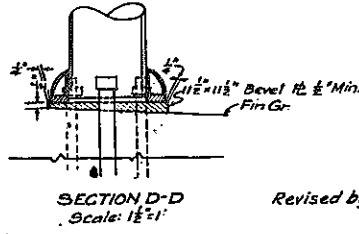
CONTRACT NO. 2



Checked by C. L. H. JEE
 Prepared by T. L. J. W.
 Made by R. H.
 Drawn by EDWARD A. SEARS, J. E. E.

SECTION C-C
 Scale: 1/2" = 1'-0"

SECTION A-A
 Scale: 1/2" = 1'-0"



Revised by Shumavon, Buckley & Gault
 Sept. 26, 1961

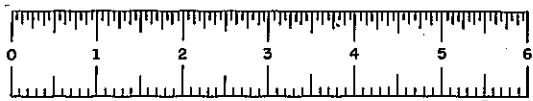
- NOTES
1. For Electrical Distribution see Sheets 36 37
 2. " Plan of Structure " " 63.

CORRECT AS BUILT
 REV. 1-24-56
 ARTHUR V. SHERIDAN EXPRESSWAY

STRUCTURE NO. 52
 ELECTRICAL LAY-OUT

DRAWING NO. DATE SCALE
 P35A-5C 4-3-56 AS SHOWN ENGINEERS NEW YORK

SHEET 69

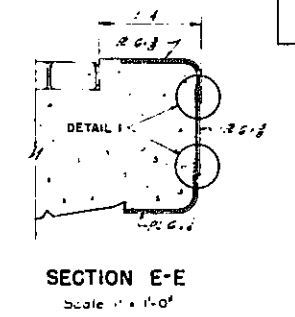
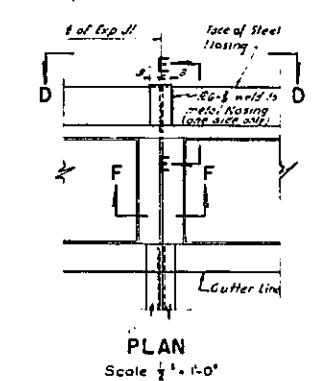
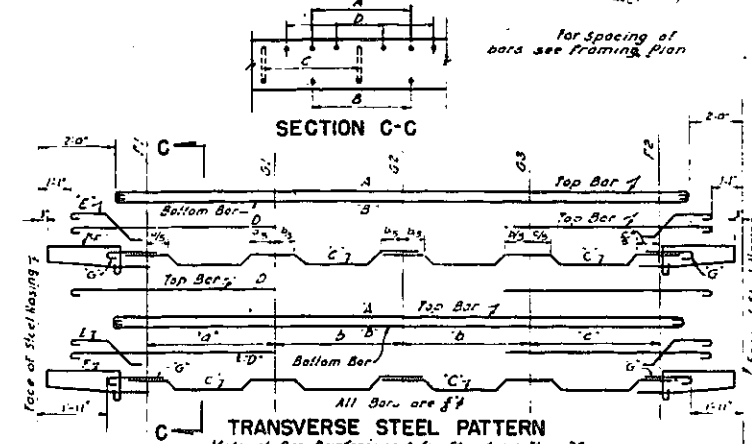
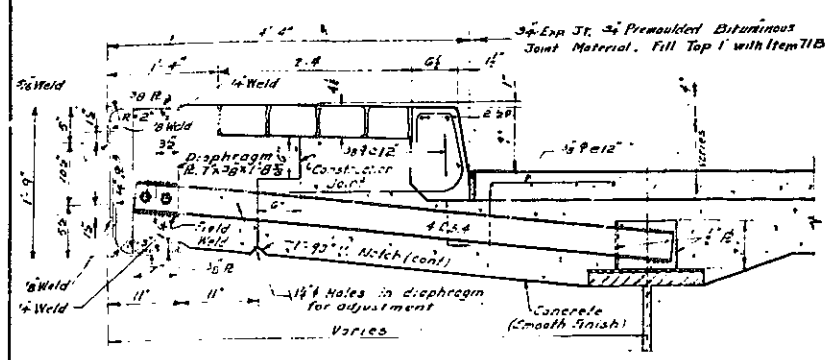


FIASE 60-1

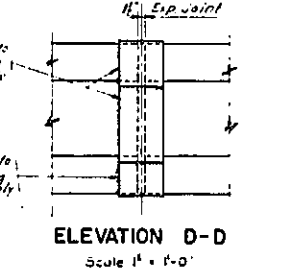
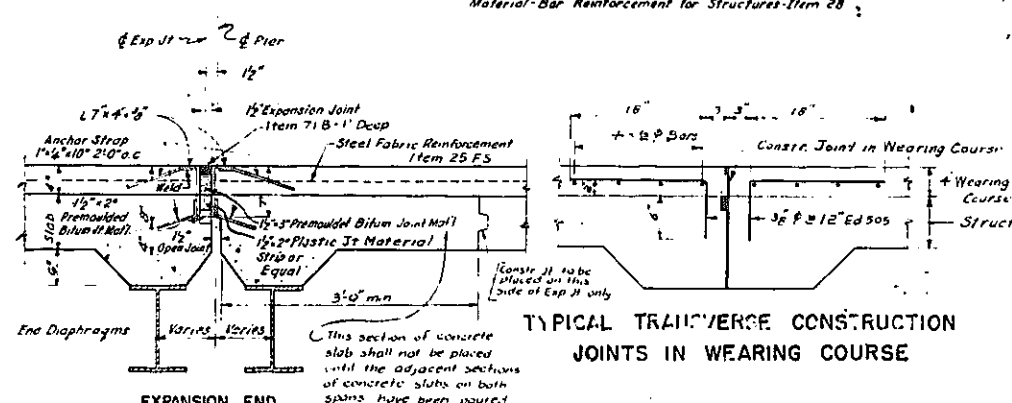
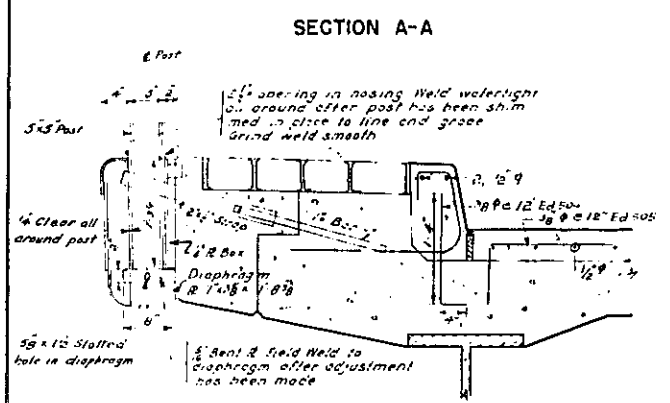
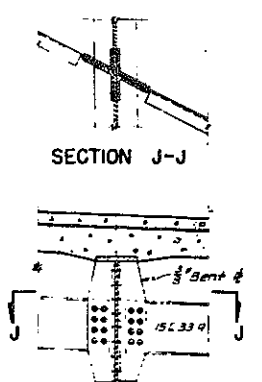
FED. RD. DIV. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	CL-218-465		70	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST TO E. TREMONT AVE.

CONTRACT NO. 2

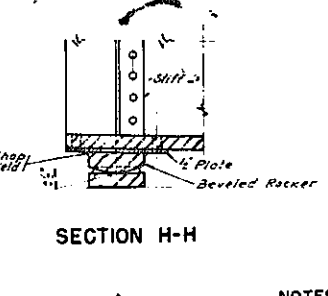
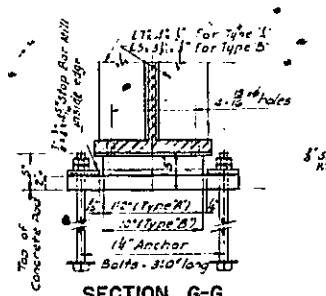
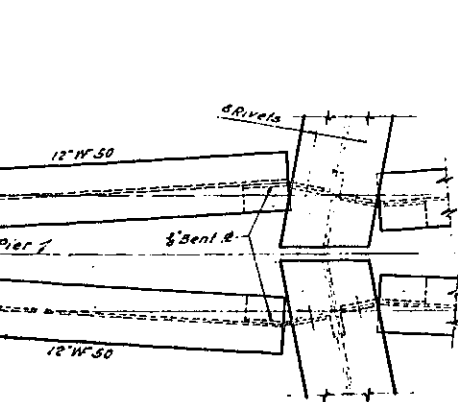
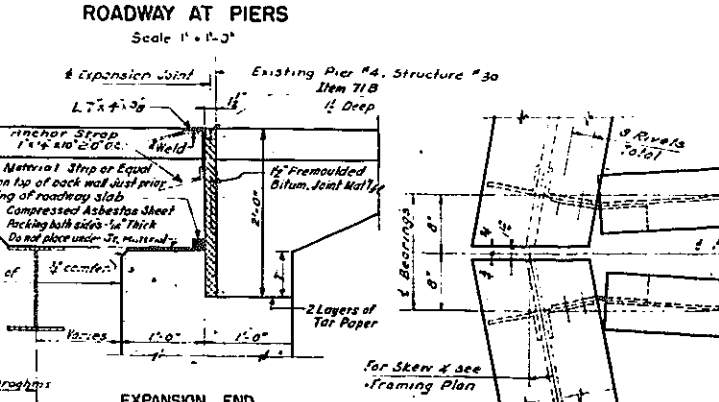
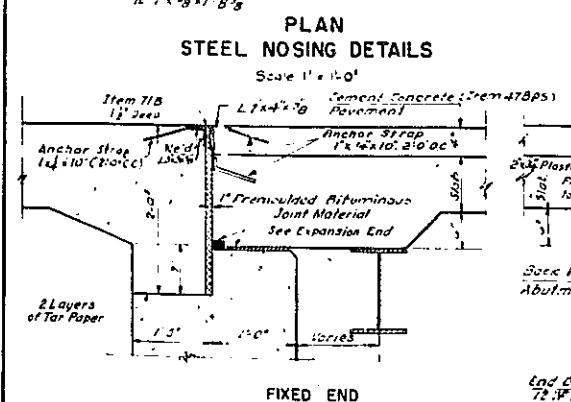
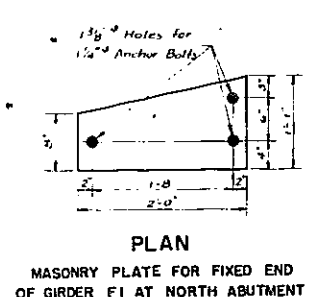
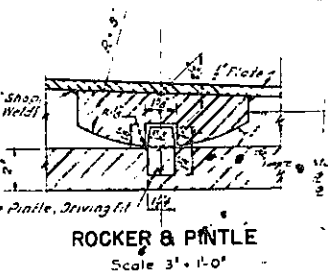
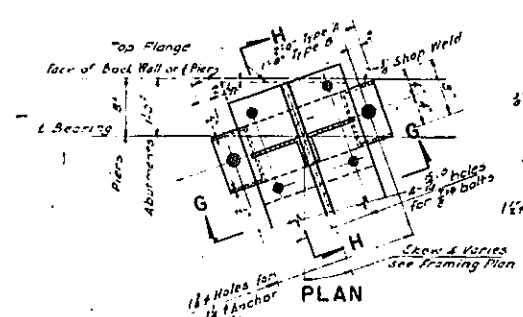
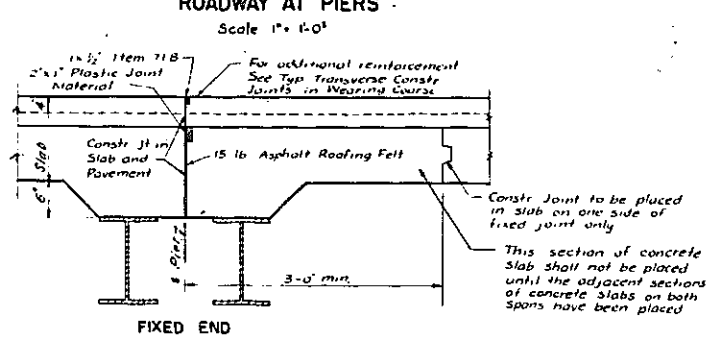
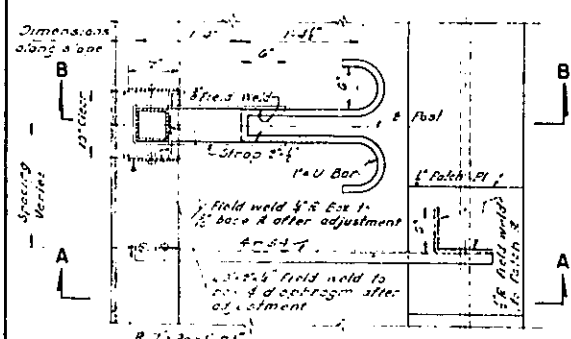


DETAIL I
Scale 3" = 1'-0"



SIDEWALK EXPANSION JOINTS

INTERMEDIATE DIAPHRAGMS
Scale 1" = 1'-0"



END BEARING DETAILS
Scale 1" = 1'-0"

Note: Expansion Ends-Beveled Rockers and Bearing Plates shall be according to Item 292. Expansion Bearings, odd Stop Bars and omit Pintle. Fixed Ends-add Pintle and omit Stop Bars.

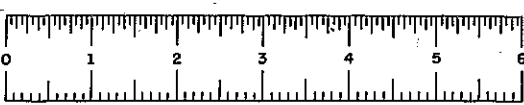
- NOTES:
- All Structural Steel-Item 292 except as noted.
 - Concrete pads to be monolithic with structure. See notes on Sheet 63.
 - For detail of lamp post foundations see Sheet 69.
 - Concrete Pads to be poured 1/4" higher than required and bush-hammered to exact elevation.

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY				
VIADUCT STRUCTURE NO. 52				
TYPICAL STRUCTURAL DETAILS				
DWG. NO.	SCALE	DATE	SHEET NO.	
F1-SC	AS SHOWN	4-5-1946	70	
CLARKE B. RAPUANO			ENGINEERS	
NEW YORK, N.Y.				

In Charge Of: A. Barron DDB
 Made By: A.L. Schwartz ELM
 Traced By: J.A. Bingham PP
 Checked By: S. Ross F.W.
 L. Barron

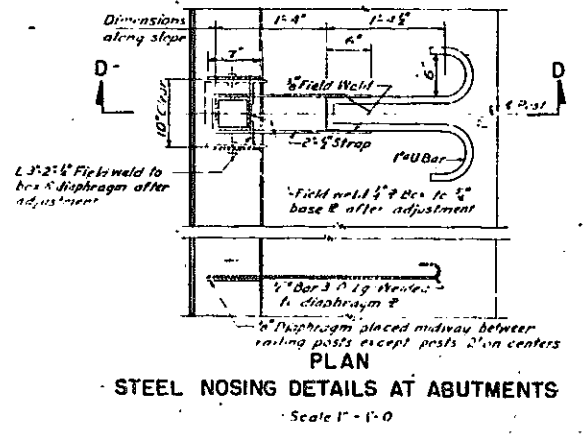
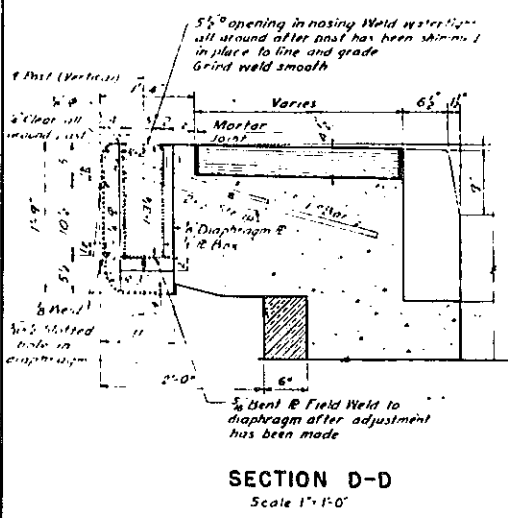
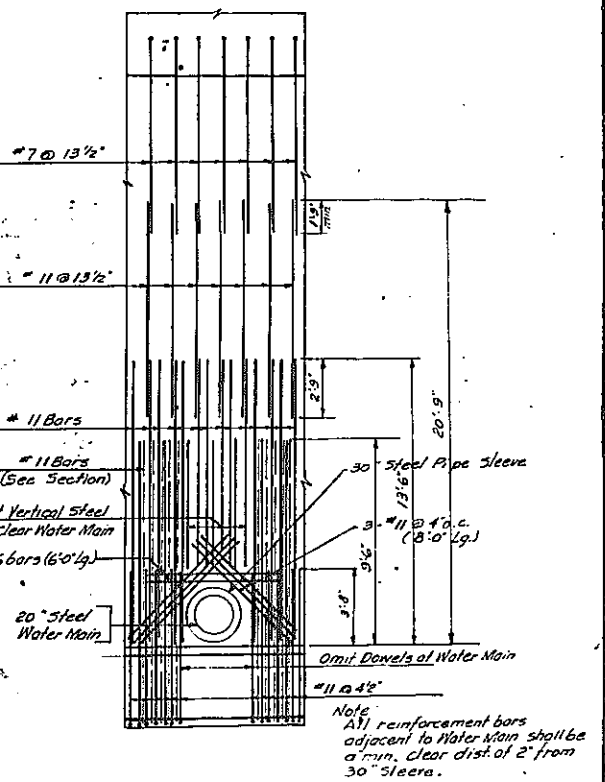
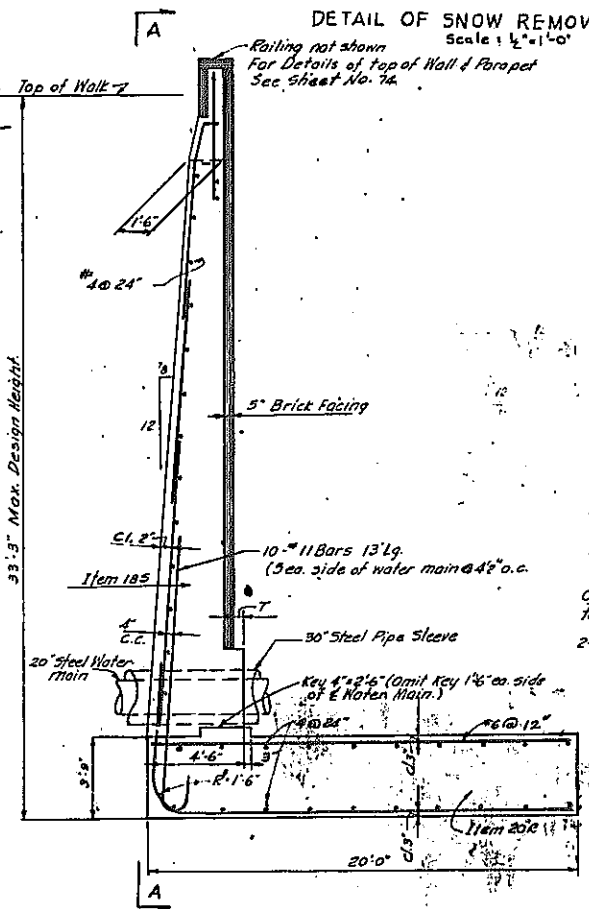
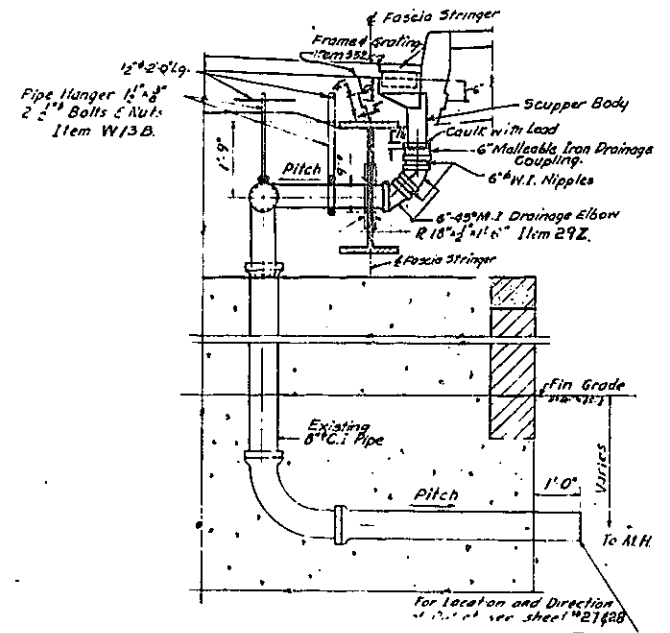
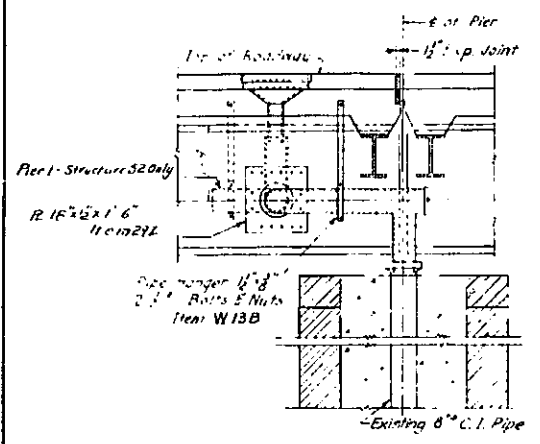
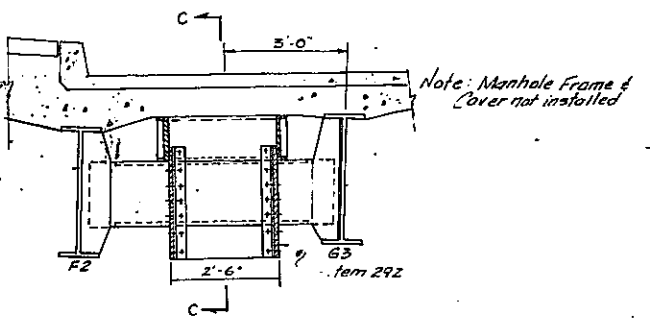
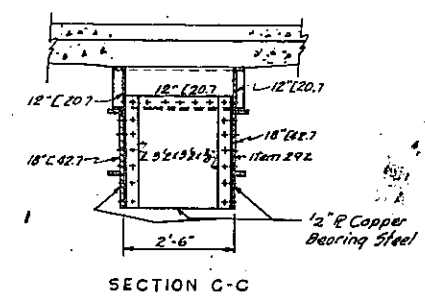
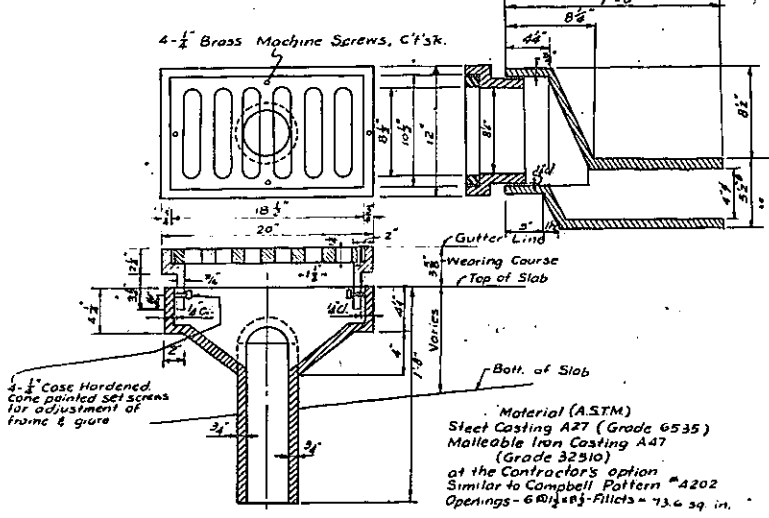
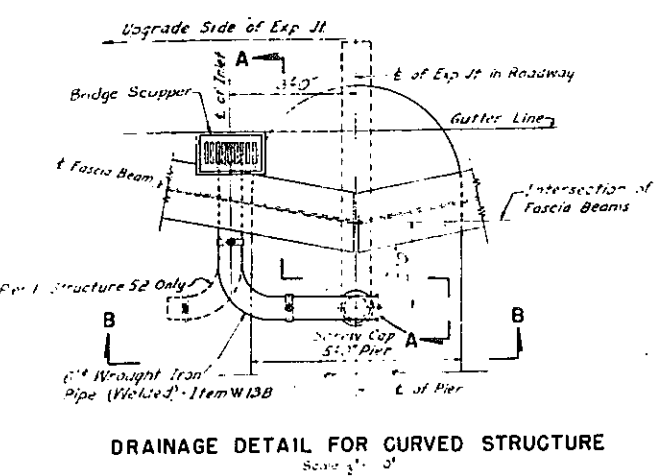
CORRECT AS BUILT



FIASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	31-218-168		71	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E.TREMONT AVE.
CONTRACT NO. 2



Notes:
1) Details not shown on Section E35B to be similar to those shown for Wall Section Type 'E' on Contract Plans Sheet #79.
2) The Footing for Wall Section E35B shall be carried a minimum of 2'-0" into sound rock.

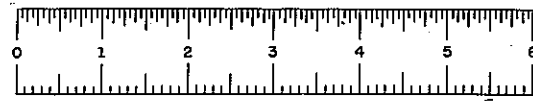
In Charge Of: S. Ross
Made By: W.L. Schwartz
Traced By: M. Trayer
Checked By: M. Barron
Rev. D.O.B.
P.R.
P.R.
F.R.W.

CORRECT AS BUILT
Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

VIADUCT STRUCTURE NO. 52
MISCELLANEOUS DETAILS

DWG. NO. P42-50	SCALE: AS SHOWN	DATE: 4-3-1956	SHEET NO. 71
CLARKE & RAPUANO NEW YORK, N. Y.			ENGINEERS



FIASE 60-1

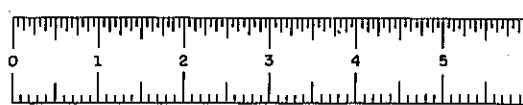
SHEET NO 72-73

FIASE 60-1

NOT IN CONTRACT

1

4

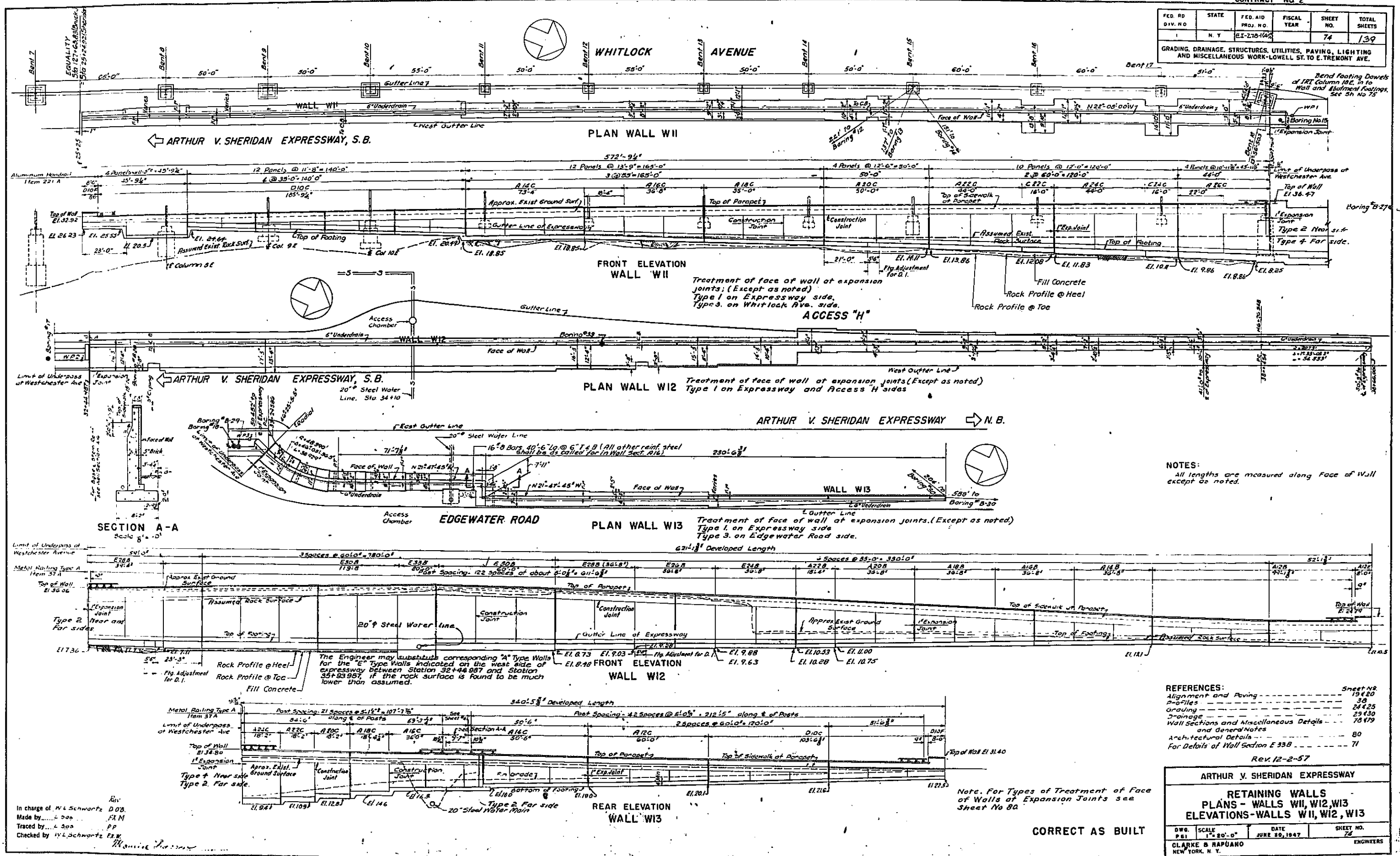


PHASE 60-1

CONTRACT NO. 2

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EI-270-145		74	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.



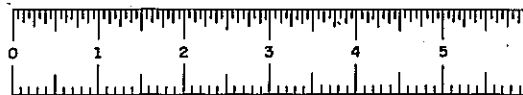


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-218-(45)		75	139

GRADING DRAINAGE STRUCTURES UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO. 2
PROCEDURE FOR UNDERPINNING IRT COLUMN 19E

- Rivet Vertical Beams "A" and perforated filler plates to the column flanges.
- Erect Timber Cribbing "E" and place Grillage "D".
- Place main Underpinning Girders "C" and Cross Beams "B". Transfer the column load to Girders "C" by means of Jacks. Insert steel shim plates between Beams "B" and Girders "C". Weld steel shim plates to Beams "B".
- Excavate sheeted pit to the bottom of the column pier. Remove existing column pier. Excavate pit to subgrade of new concrete pier.
- Construct new concrete pier.
- Transfer column load to the new concrete pier by means of jacks and air packing a minimum of 2' between the existing base plate and the top of the new pier. Tighten anchor bolts.
- Remove all temporary beams, girders, cribbing, sheeting, etc. Fill all holes in the column with rivets.
- The Contractor shall select the section and number of the Main Underpinning Girders "C" based on the tabulated maximum values of Moment of Inertia of Section Modulus as shown on Sheet No. 47, also the Cross Beams "B" & Grillage "D" Beams based on a Column Load equal to 125 times the total Column Loads as tabulated on Sheet No. 47. These selections shall be subject to the approval of the Chief Engineer of the N.Y.C. Transit Authority. The contractor shall verify all structural elements used for underpinning as to their stability, resistance to shear, moment, bending, buckling & web crippling in order to contain the deflection & unit stresses within the allowable limits.

GENERAL NOTES FOR IRT COLUMN UNDERPINNING

- All work in connection with the underpinning of IRT columns is subject to the inspection & approval of the N.Y.C. Transit Authority.
- datum used is the Bronx Bureau of Highways Datum which is 2.60' ft above the U.S.C.G. Survey Datum and 99.935 ft above the N.Y. City Transit Authority Datum.
- On one column in 3 bents, and opposite columns in alternate bents, shall be placed upon underpinning at one time.
- Dimensions of temporary vertical beams, cross beams, main underpinning girders, grillages, timber cribbing and other temporary supports are dependent upon the total column loads.
- Rock excavation shall be confined within the 4 on 1 sloped limits indicated on the drawings.
- Timber cribbing shall be set upon paving on a concrete base, braced and doweled or bolted as directed by the Engineer. The bearing pressure under the timber cribbing shall not exceed 4 t.p.s. (subject to the approval of the Chief Engineer of the N.Y.C. Transit Authority).
- All main members and connections of steelwork supporting an IRT column shall be riveted; minor connections may be bolted. Jacking of the existing structure shall be done when no live load is on the elevated bent. Not more than ten open holes shall be permitted in the flange of an existing column and not more than five open holes shall be permitted in any one line. When underpinning operations are completed, all temporary holes in the existing column shall be filled with new rivets.
- Each column temporarily supported, must be maintained accurately at all times at its present elevation and alignment.
- Temporary concrete underpinning piers shall be removed to at least two feet below the finished grade.
- Existing IRT column base material shall be reused, wherever possible. If the existing base material is unsuitable for reuse, it shall be replaced by new material which shall be paid for according to Item No. 292.
- All dimensions and existing conditions must be verified in the field.
- All supporting members at street level shall be protected by timber guards.
- The Contractor shall submit shop drawings for all underpinning structures and materials for the approval of the Chief Engineer of the N.Y.C. Transit Authority (See Specifications).
- No more than 2 columns to be jacked at one time.

NOTES:
All work on this sheet except Structural Steel and Concrete which are part of the permanent structure shall be paid for according to Item No. 421 - Underpinning of IRT Division Elevated Railroad Columns for Payment Lines for Item 55 for Wall W.II See Sheet No. 7

REFERENCES:

Wall W.II - Plan & Elevation	Sheet No. 74
Underpass at Westchester Avenue	47
Underpinning - Plan & Sections	47
West Abutment	48
Wall Sections - Miscellaneous Details & General Notes	75

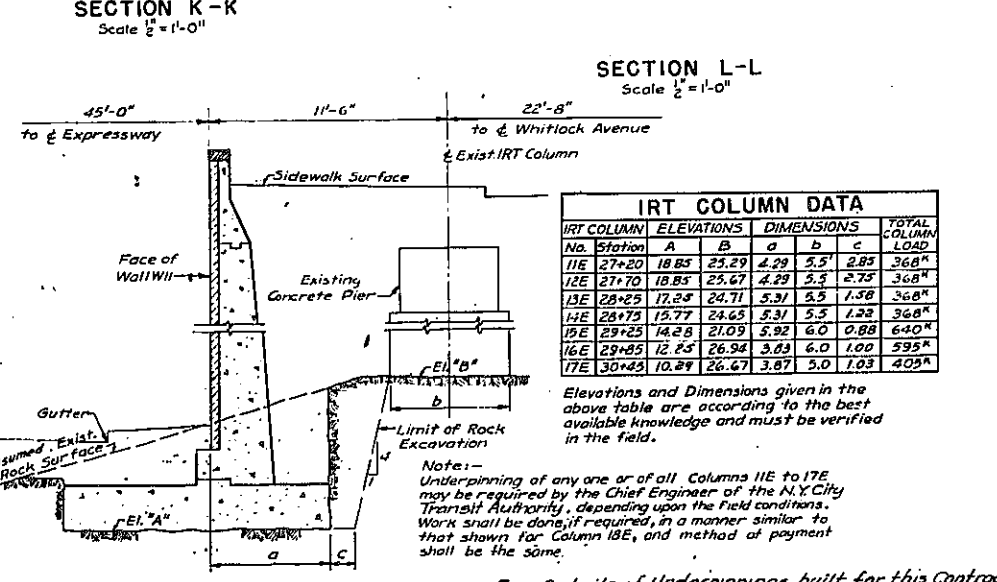
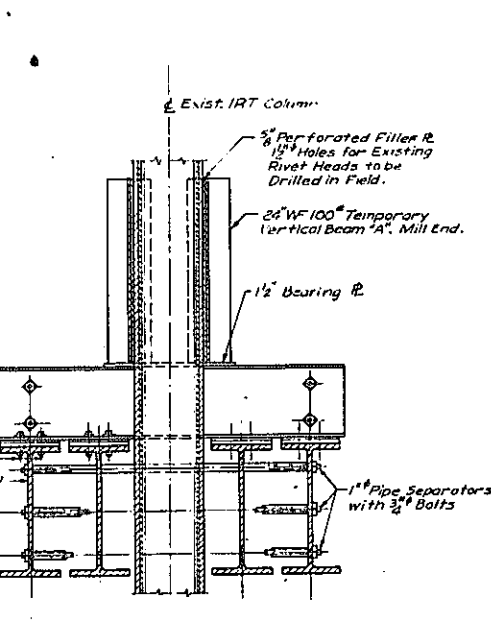
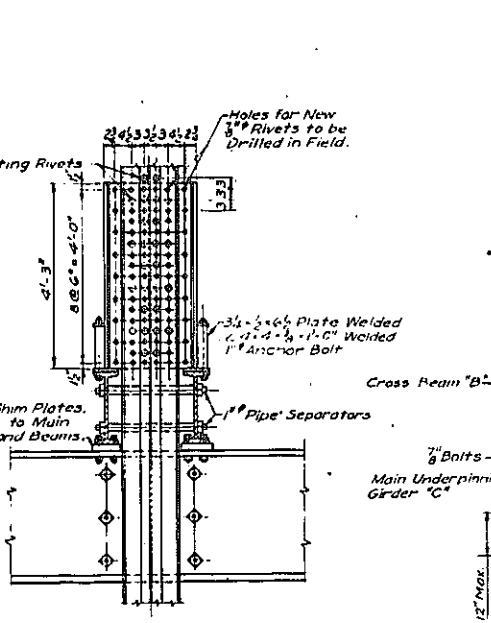
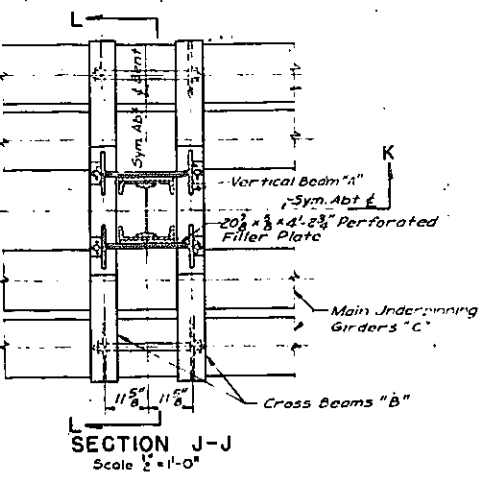
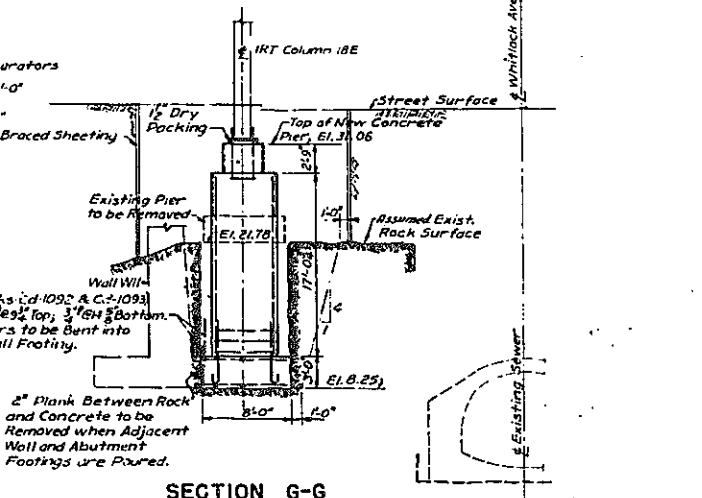
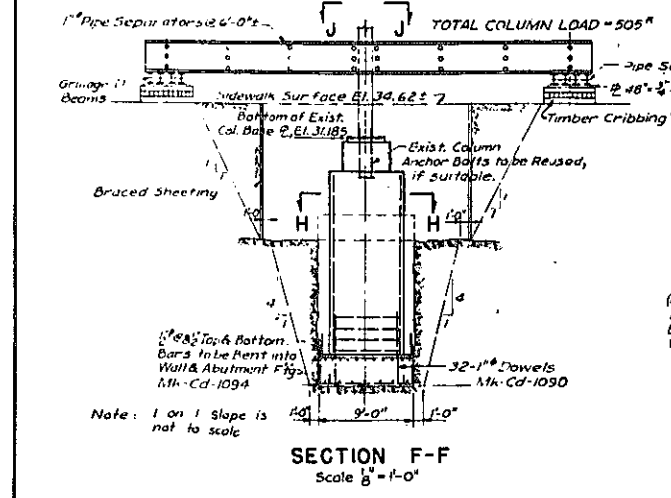
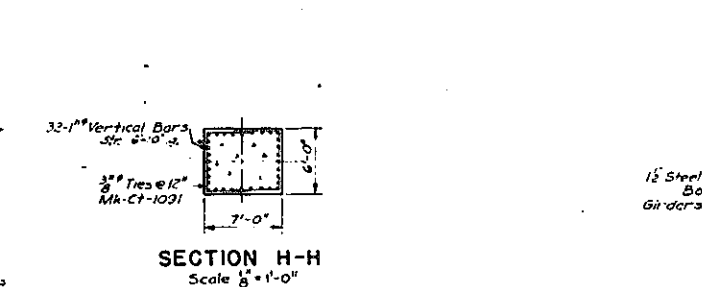
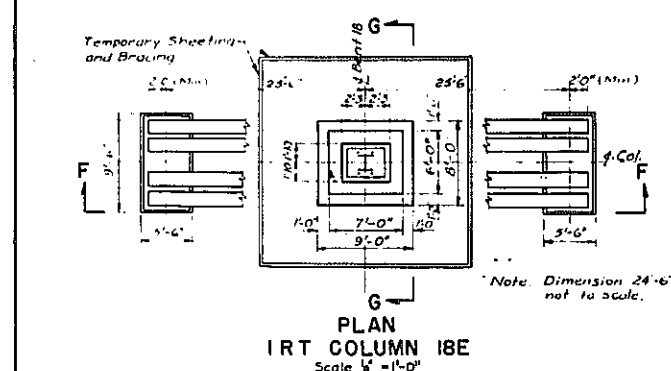
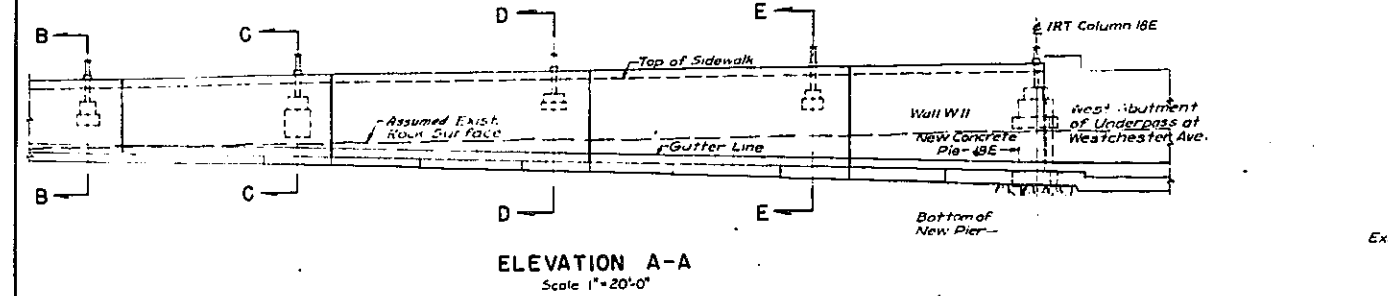
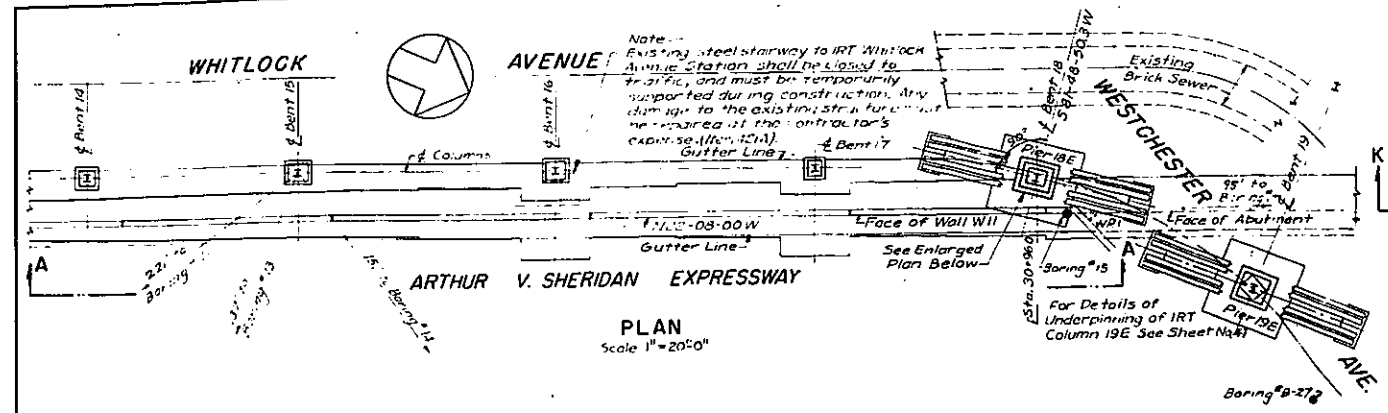
CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY
RETAINING WALLS
UNDERPINNING AT WALL W.II
PLAN & SECTIONS

DATE	SCALE	DATE	SHEET NO.
JUNE 30, 1947	AS NOTED		75

CLARKE B. RAPUANO
NEW YORK, N. Y. ENGINEERS



IRT COLUMN No. Station	ELEVATIONS		DIMENSIONS			TOTAL COLUMN LOAD
	A	B	a	b	c	
11E 27+20	18.85	25.29	4.29	5.5	2.85	368 ^h
12E 27+70	18.85	25.27	4.29	5.5	2.75	368 ^h
13E 28+25	17.25	24.71	5.31	5.5	1.58	368 ^h
14E 28+75	15.77	24.65	5.31	5.5	1.22	368 ^h
15E 29+25	14.28	21.09	5.92	6.0	0.88	640 ^h
16E 29+85	12.85	26.94	3.43	6.0	1.00	595 ^h
17E 30+45	10.89	26.67	3.87	5.0	1.03	405 ^h

Elevations and Dimensions given in the above table are according to the best available knowledge and must be verified in the field.

Note: Underpinning of any one or of all Columns 11E to 17E may be required by the Chief Engineer of the N.Y. City Transit Authority, depending upon the field conditions. Work shall be done, if required, in a manner similar to that shown for Column 19E, and method of payment shall be the same.

For Details of Underpinning built for this Contract See Dwg. Nos. A-10 & ASE-15

In charge of S. Roos
Made by S.H. Diskin
Traced by S.H. Diskin
Checked by S. Roos

Rev. D.O.B.
P.P.
P.P.
F.A.W.

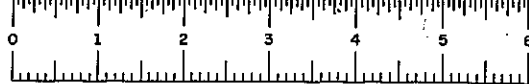
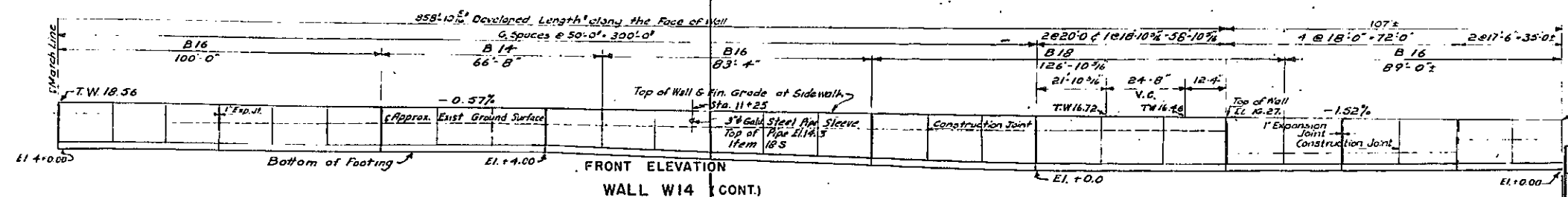
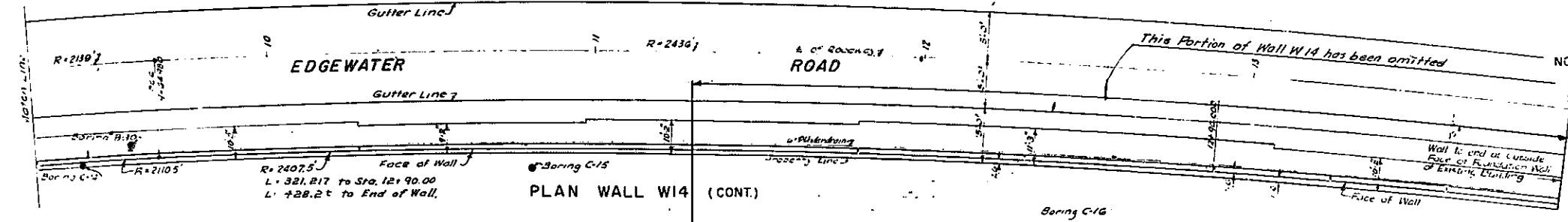
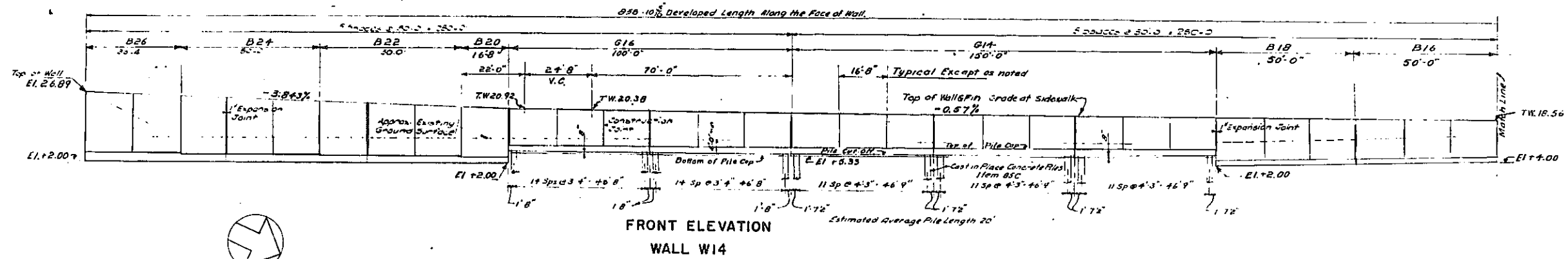
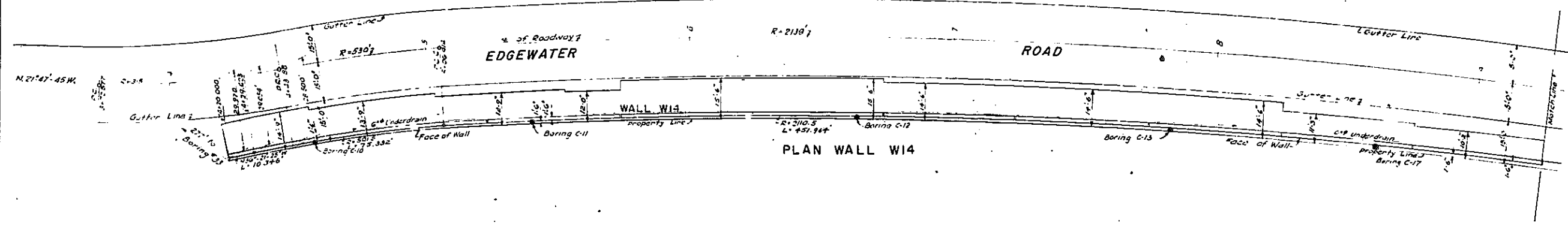


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	EI-278-1(65)		76	139

GRADING DRAINAGE STRUCTURES UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E.TREMONT AVE.
CONTRACT NO. 2



- NOTES**
- All lengths are measured along Face of Wall. Openings are to be left in pargeet of all driveways and at other locations ordered by the Engineer.
 - Where the fronts of partially demolished buildings bordering on the property line of Edgewater Road have been reconstructed Wall W14 may be omitted as ordered by the Engineer.

REFERENCES:

Alignment and Paving	Sheet No. 30
Profiles	39A
Grading	25
Drainage	30
Wall Sections and Miscellaneous Details and General Notes	76G71
Architectural Details	80

Rev
In charge of ILL Schwart RCB
Made by L.S. DEH
Traced by L.S. & DY F.M.
Checked by ILL Schwart F.A.W.

CORRECT AS BUILT
Rev. 12-2-57

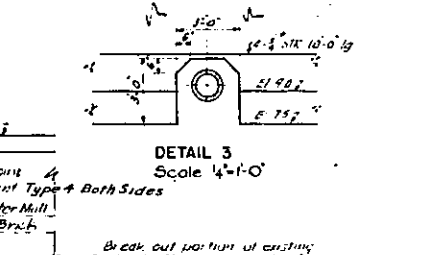
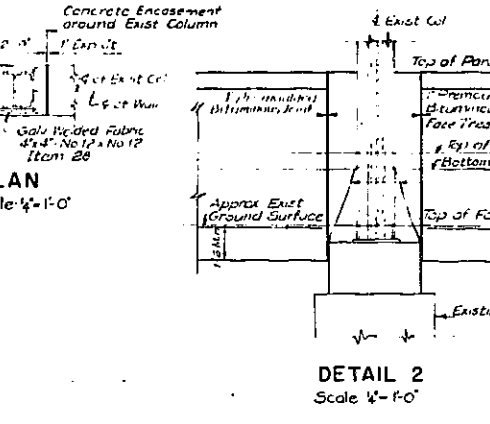
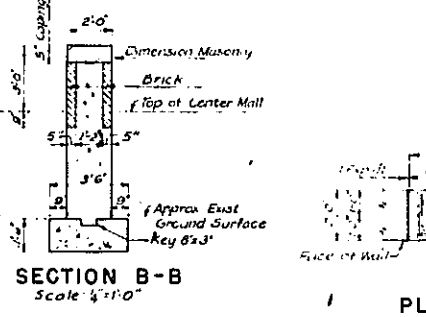
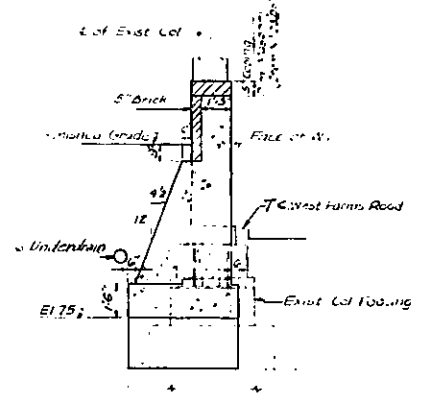
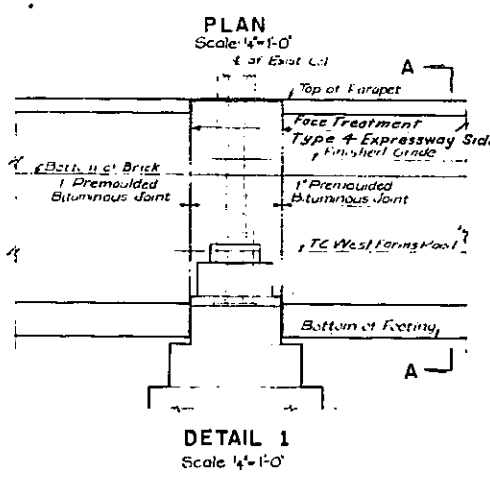
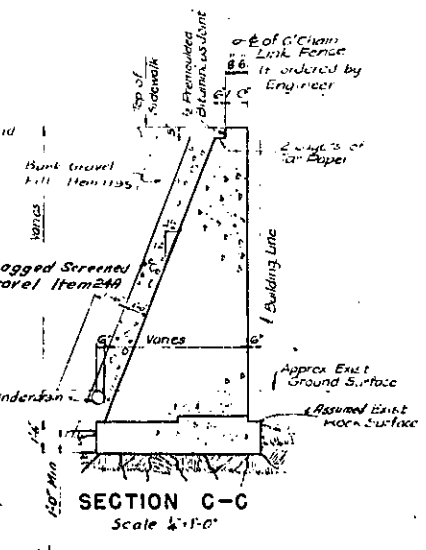
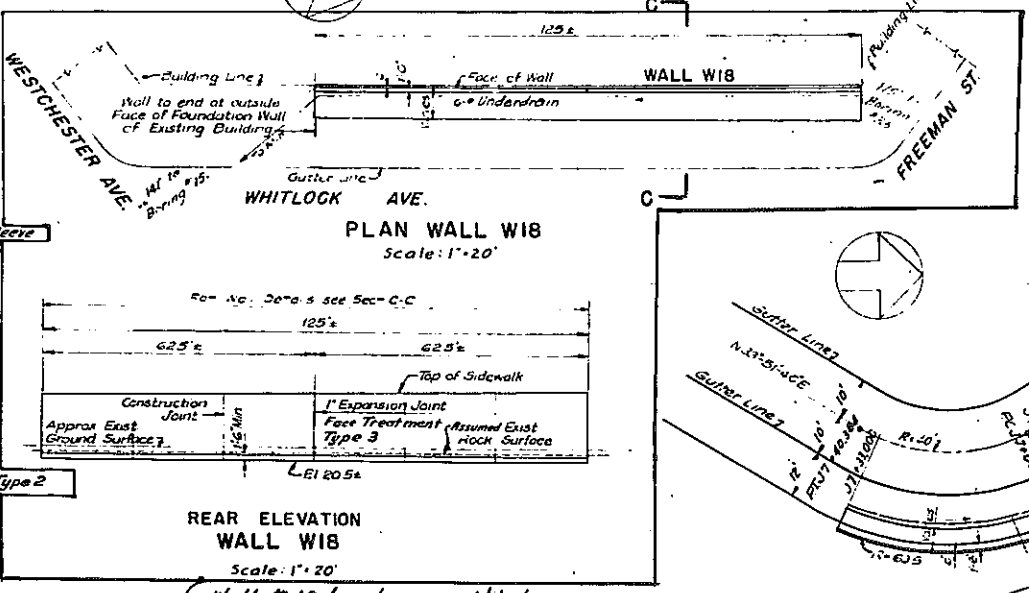
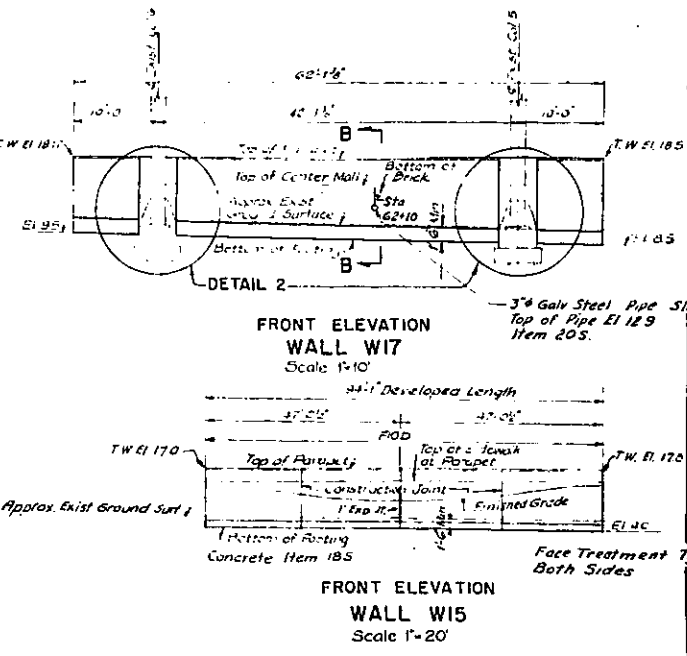
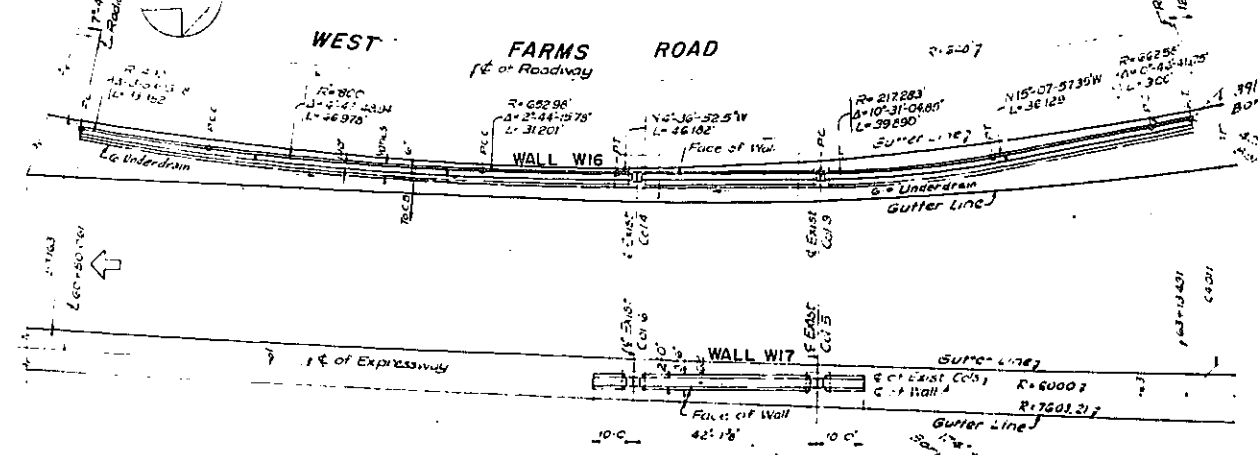
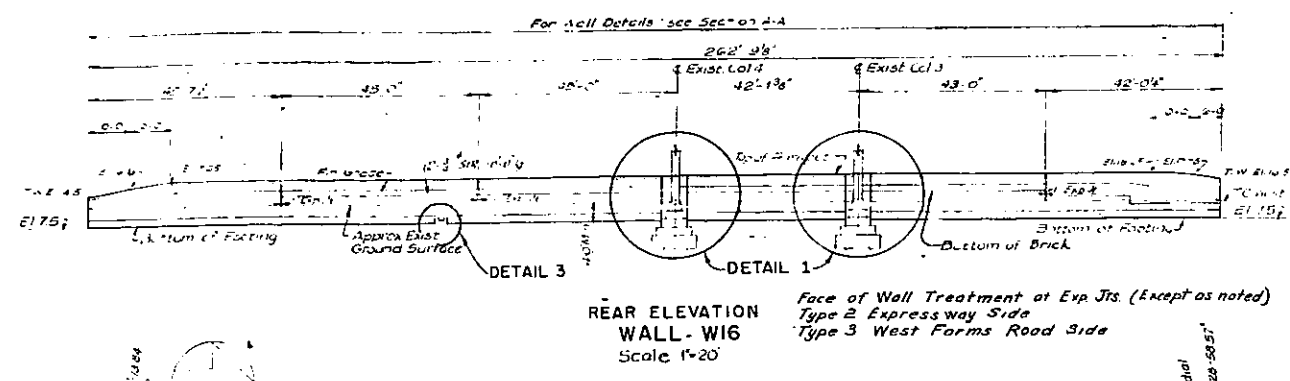
ARTHUR V. SHERIDAN EXPRESSWAY

RETAINING WALLS
PLAN-WALL W14
ELEVATION - WALL W14

DRG. P. 618	SCALE 1" = 20'-0"	DATE JUNE 30, 1947	SHEET NO. 76
CLARKE & RAPUANO			ENGINEERS
NEW YORK, N. Y.			

FED RD DIV NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
1	N Y	EL-278(45)		77	159

GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



NOTES

- All lengths are measured along face of wall
- All concrete is Class I Concrete Item 205 except as noted
- Wall W-18 may be omitted, if not required at the time for construction as determined by the Engr.

REFERENCES:

Alignment and Paving	Sheet No 10, 21 & 22
Profiles	30, 33, 39A
Grading	24, 26 & 27
Drainage	20 & 31
Wall Sections and Misc. Details and General Notes	78 & 77
Architectural Details	80

CORRECT AS BUILT
Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

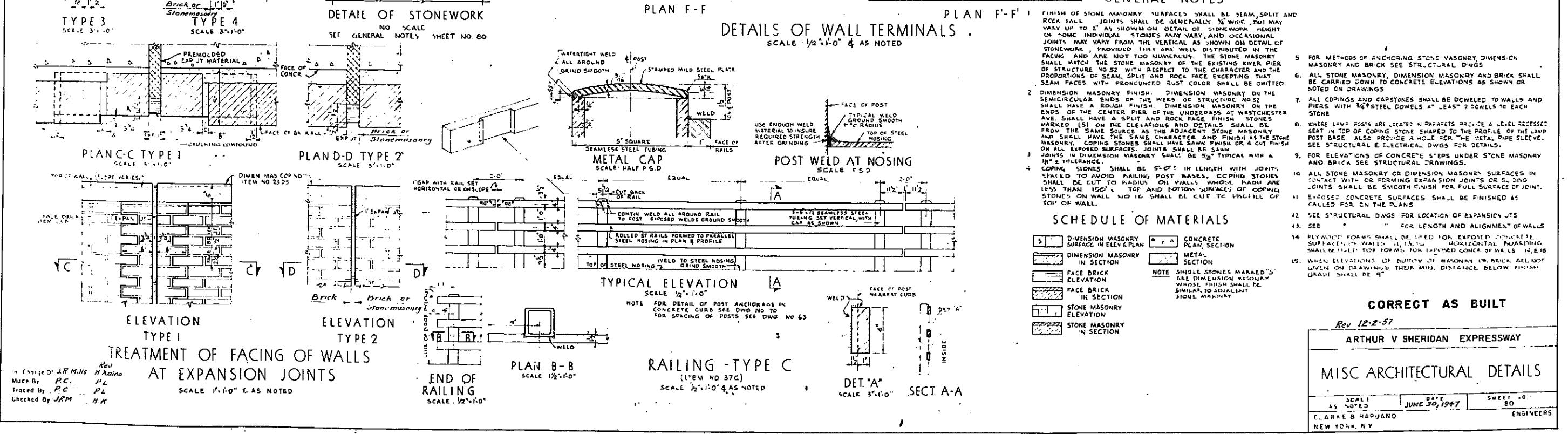
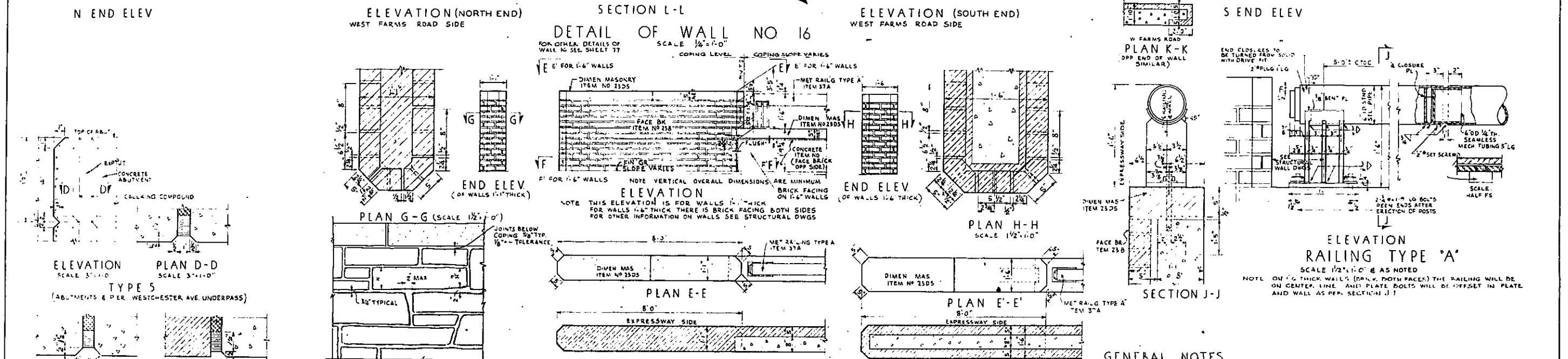
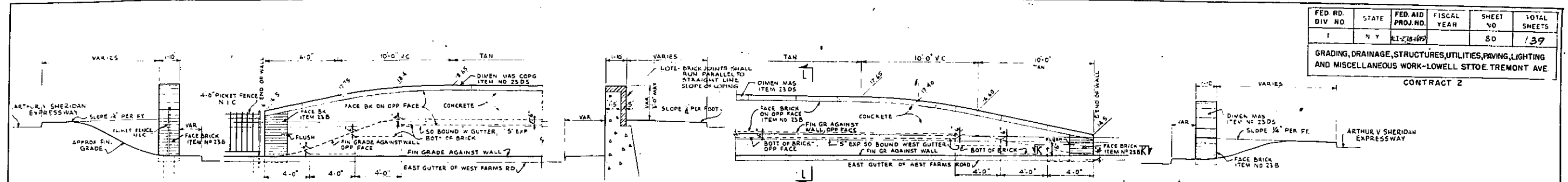
RETAINING WALLS
PLANS - WALLS W15, W16, W17, W18
ELEVATIONS - WALLS W15, W16, W17, W18

DWG. P.I.A.	SCALE AS SHOWN	DATE JUNE 30, 1947	SHEET NO. 77
CLARKE & RAUANO			ENGINEERS
NEW YORK, N. Y.			

Rev. D.O.B.
In charge of H.L. Schwartz
Made by H.T. & D.C.V.
Traced by L.S. & D.C.V.
Checked by W.L. Schwartz
FXW

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E1-278-169		80	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL STTEE. TREMONT AVE. CONTRACT 2



In Charge of J.R. Mills H. Amano
 Made By P.C. P.L.
 Traced By P.C. P.L.
 Checked By J.R.M. H.K.

CORRECT AS BUILT
 Rev 12-2-57

ARTHUR V SHERIDAN EXPRESSWAY

MISC ARCHITECTURAL DETAILS

SCALE NOTED	DATE JUN 30 1967	SHEET 80
C. LARAE B. RAPUNDO		ENGINEERS
NEW YORK, N.Y.		

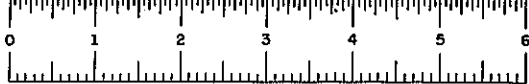
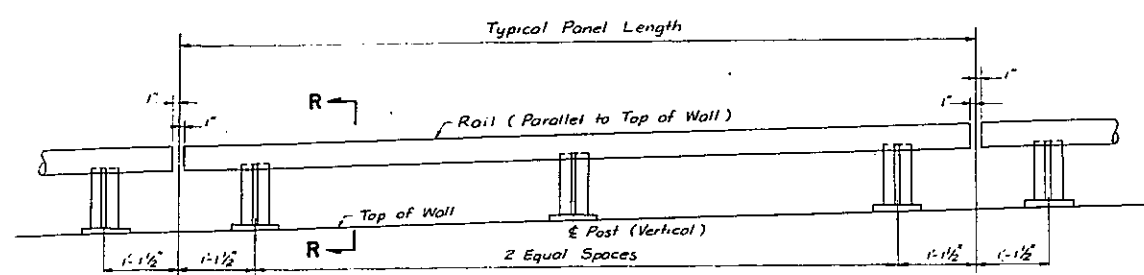


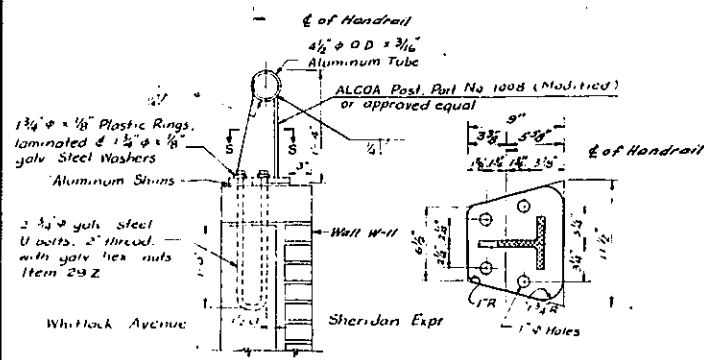
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL-278-1(45)		81	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK, LOWELL ST. TO E. TREMONT AVE.

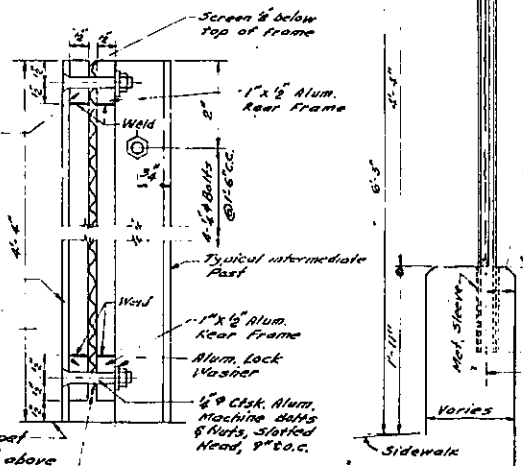


ELEVATION
Scale 3/4"=1'-0"

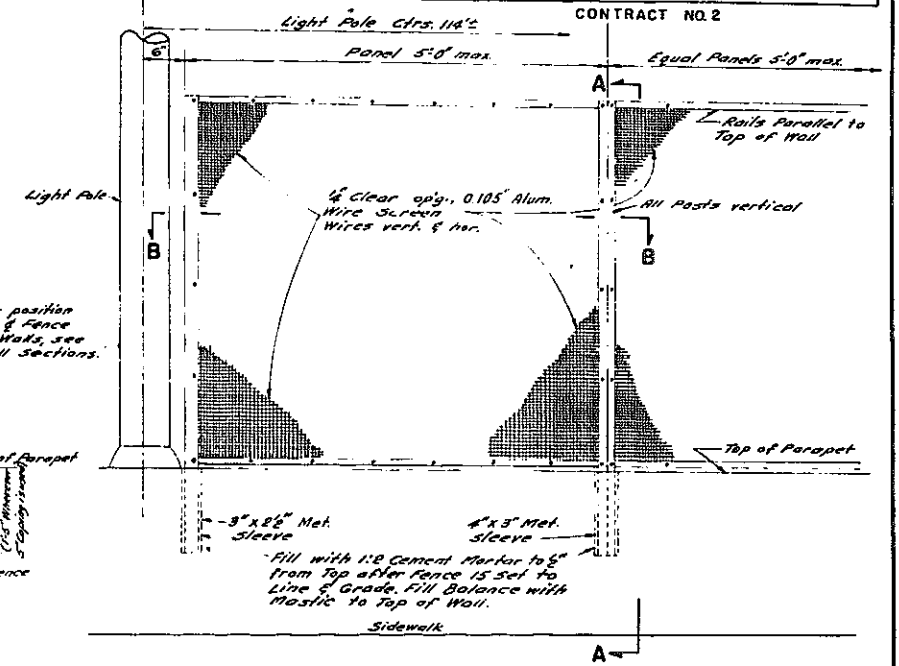


DETAIL OF ALUMINUM HANDRAIL - Item 221 A

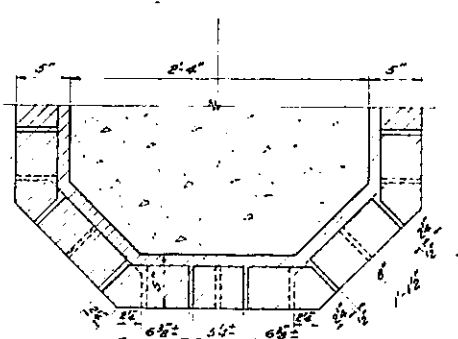
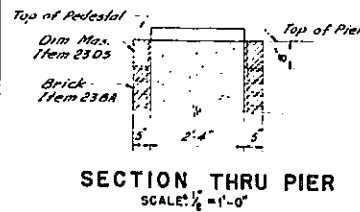
Note: Details of Handrail installation are shown for Wall W-11. Details of Handrail for Access G Viaduct are similar except that the orientation of base plate and Handrail with respect to Sheridan Expr. shall be the reverse of that shown. For positioning and orientation on Access G Viaduct and Southwest Wall see Sheet Nos 99 & 105.



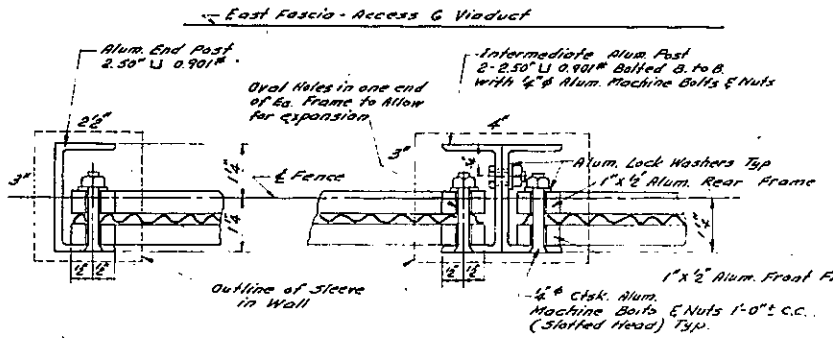
DETAIL SECTION
SCALE HALF FULL SIZE



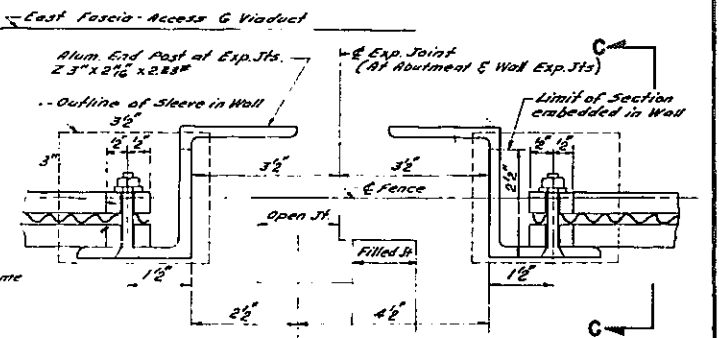
WEST ELEVATION
SCALE 1"=1'-0"



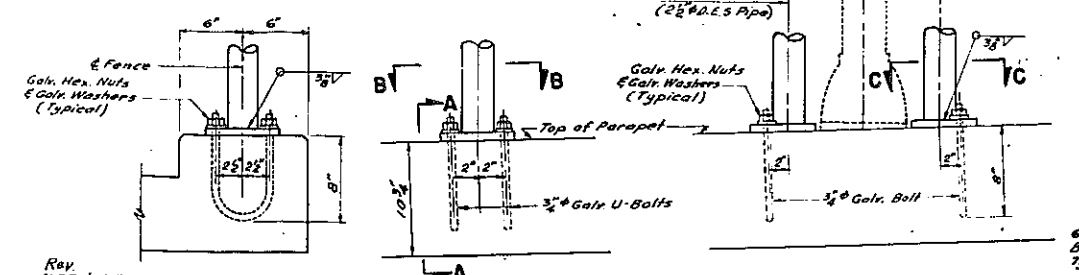
PIER DETAILS - ACCESS "G"



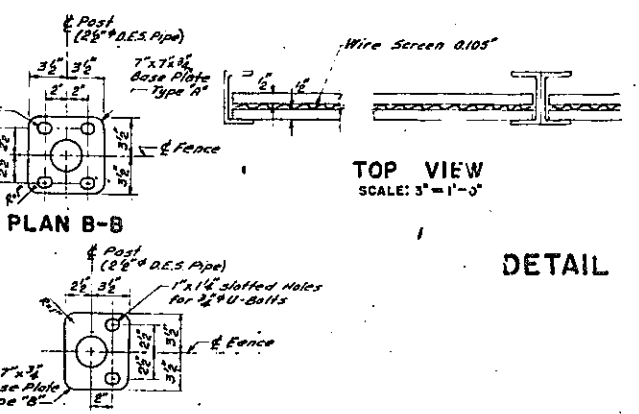
DETAIL SECTION B-B
SCALE HALF FULL SIZE



DETAIL SECTION AT EXP. JOINTS
SCALE HALF FULL SIZE



DETAILS OF POSTS FOR PIPE RAIL FENCE - E174 ST. RAMPS - Item 615
SCALE: 1 1/2"=1'-0"



DETAIL OF PROTECTIVE MESH FENCE TYPE "A" - Item 228

CORRECT AS BUILT
Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY		
MISC. ARCHITECTURAL DETAILS		
SCALE AS NOTED	DATE June 30, 1947	SHEET NO. 81
CLARKE & RAPUANO		ENGINEERS
NEW YORK, N. Y.		

In charge of J.R.M.
Made by D.B.J.E.
Traced by A.J.C.S.T.
Checked by J.R.M.

Rev. DOB & J.E.
K.W. & J.W.
K.W. & J.W.
E.W. & J.E.

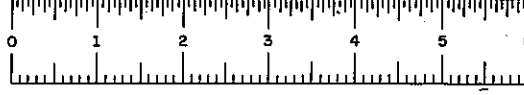
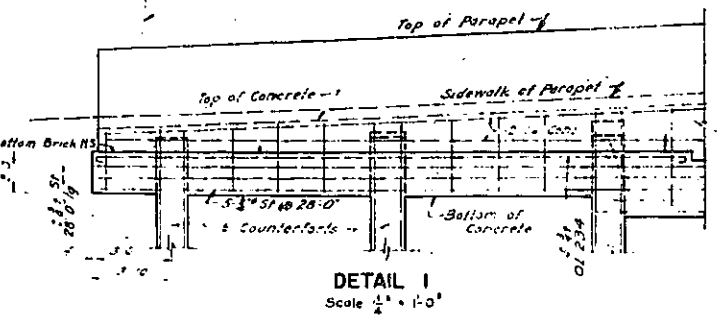
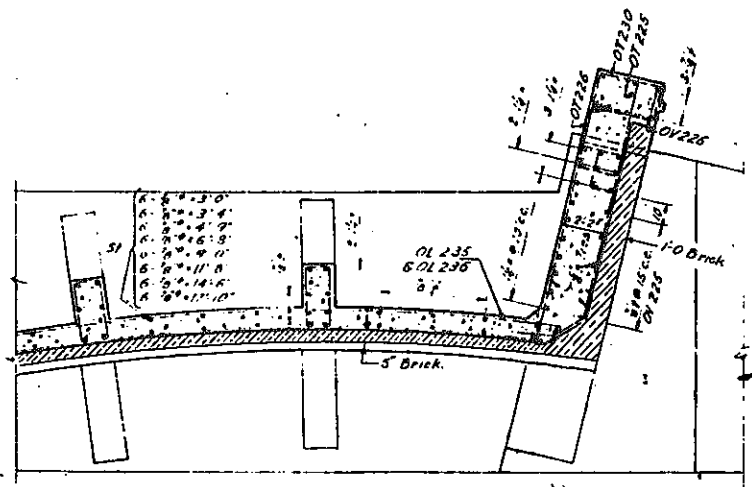
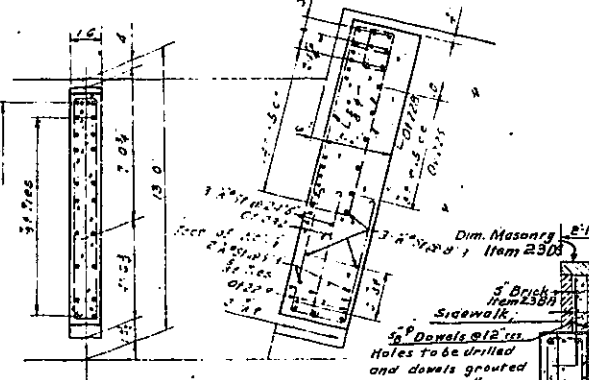
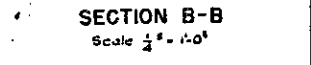
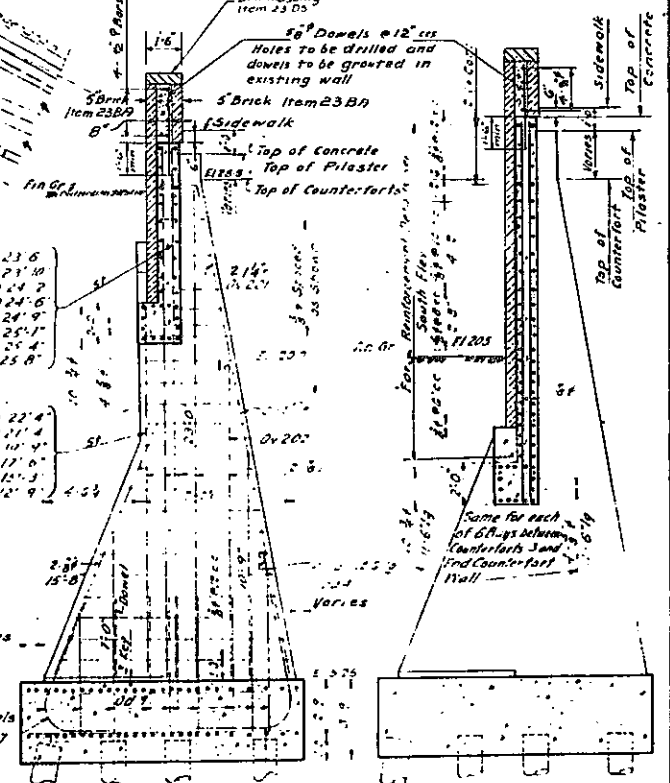
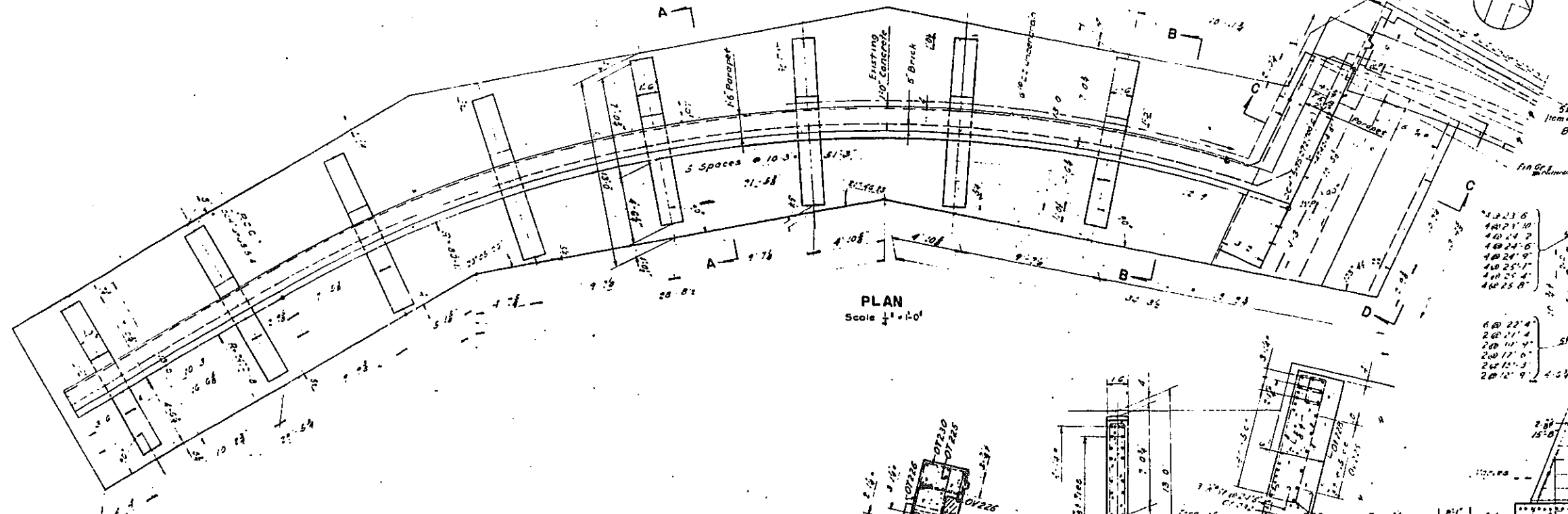


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-218-145	82	139	139

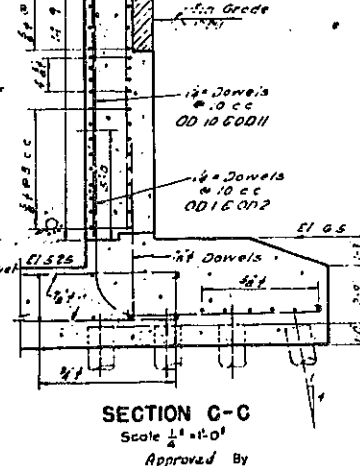
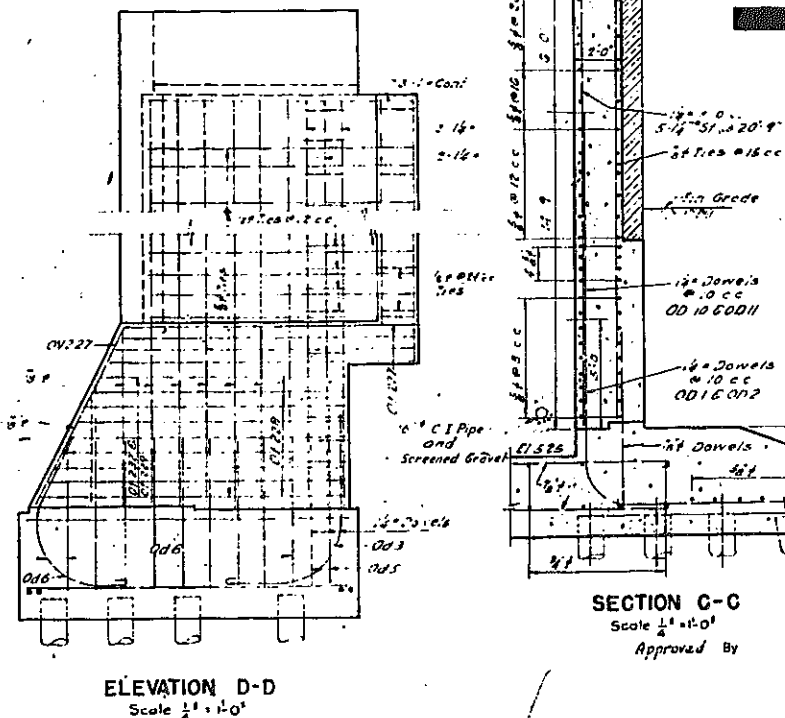
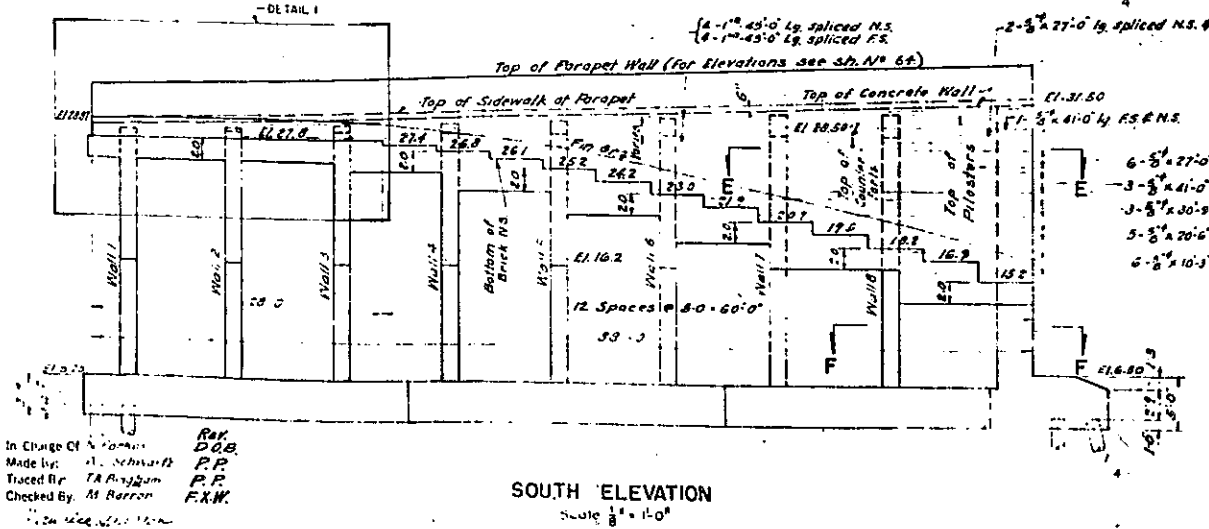
CONTRACT NO. 2

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E.TREMONT AVE.



- NOTES**
1. Except for brick facing and parapet this wall has been constructed by others.
 2. Work to be done under this contract shall consist of constructing the brick facing and the brick parapet with dimension masonry coping.
 3. Concrete for Structures - Item 185.
 4. Bar Reinforcement for Structures - Item 28.
 5. 5" Brick Facing - Item 23 B.A.
 6. 1" Brick Facing - Item 23 B.B.
 7. Dimension Masonry - Item 23 D5.

- REFERENCES**
- Alignment & Paving - Sheet No. 23
 - Grading & Drainage - Sheet No. 28
 - Plan & Sections - Sheet No. 63
 - Architectural Plans & Details - Sheet No. 65
 - Architectural Details - Sheet No. 65
 - North Abutment - Sheet No. 67



CORRECT AS BUILT
Rev. 12-2-57

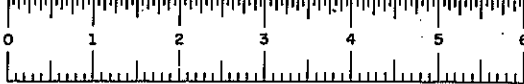
ARTHUR V. SHERIDAN EXPRESSWAY

RETAINING WALL "OCH"-1

In Charge Of: RAY DOB
 Made by: A. Schwarz P.P.
 Traced by: T.A. Ryan P.P.
 Checked by: M. Barron F.X.W.

DWG. NO.	SCALE	DATE	SHEET NO.
P34-86	AS SHOWN	4-3-57	82

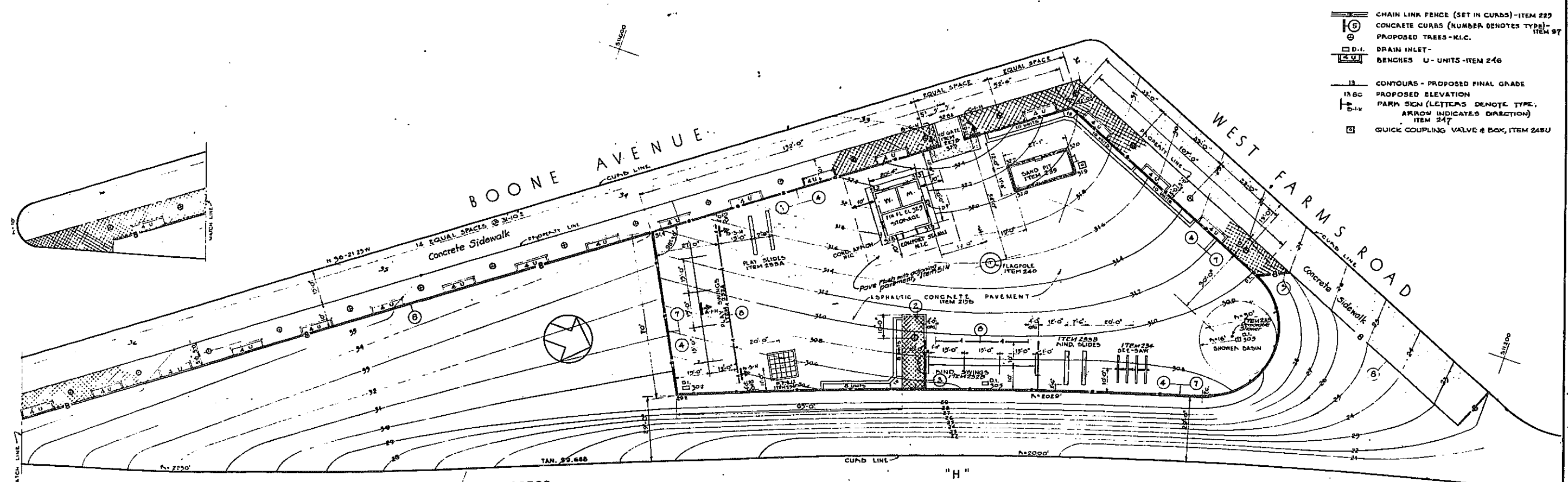
CLARKE & RAPUANO
NEW YORK, N.Y. ENGINEERS



PLANS 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	CJ-218-146		83	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



- STONE BLOCK SURFACING - ITEM 215A
- CONCRETE SIDEWALK - ITEM 1005
- CHAIN LINK FENCE (SET IN POSTS) NUMBER DENOTES HEIGHT - ITEM 223
- CHAIN LINK FENCE (SET IN CURBS) - ITEM 225
- CONCRETE CURBS (NUMBER DENOTES TYPE) - ITEM 97
- PROPOSED TREES - N.L.C.
- DRAIN INLET - ITEM 246
- BENCHES U - UNITS - ITEM 246
- CONTOURS - PROPOSED FINAL GRADE
- PROPOSED ELEVATION
- PARK SIGN (LETTERS DENOTE TYPE, ARROW INDICATES DIRECTION) - ITEM 247
- QUICK COUPLING VALVE & BOX, ITEM 248U

- NOTES:**
1. Comfort Station is Not in this Contract
 2. For alignment of Access 1, see Sheet No. 20
 3. For Grading etc. see Sheet No. 25
 4. Drainage & Utilities, see Sheet No. 30
 5. Electrical Distribution see Sheet No. 34 & Water & Drainage Details see Sheets 86 & 87
 6. Paving & Curb Details see Sheet No. 88
 7. Type 'E-1-S' Signs to be located in the field AOB
 8. All markers, easements etc. to be installed in the landscape areas of # 2, shall be in accordance with the Dept. of Parks plans at the time of installation. See Sheet 3 for plan numbers.

CORRECT AS BUILT

In charge of W. MILLS & J.E.E.
Made by P. CANCELLIERI & J.E.E.
Traced by J. APATOSKY & J.E.E.
Checked by J.W.M. & J.E.E.

REV. FEB. 6, 1956

ARTHUR V. SHERIDAN EXPRESSWAY

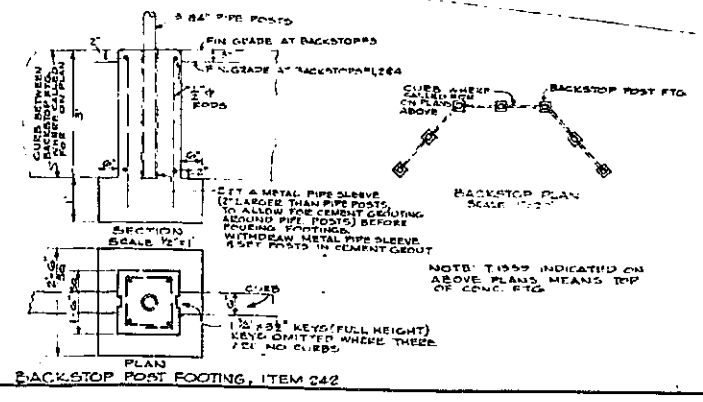
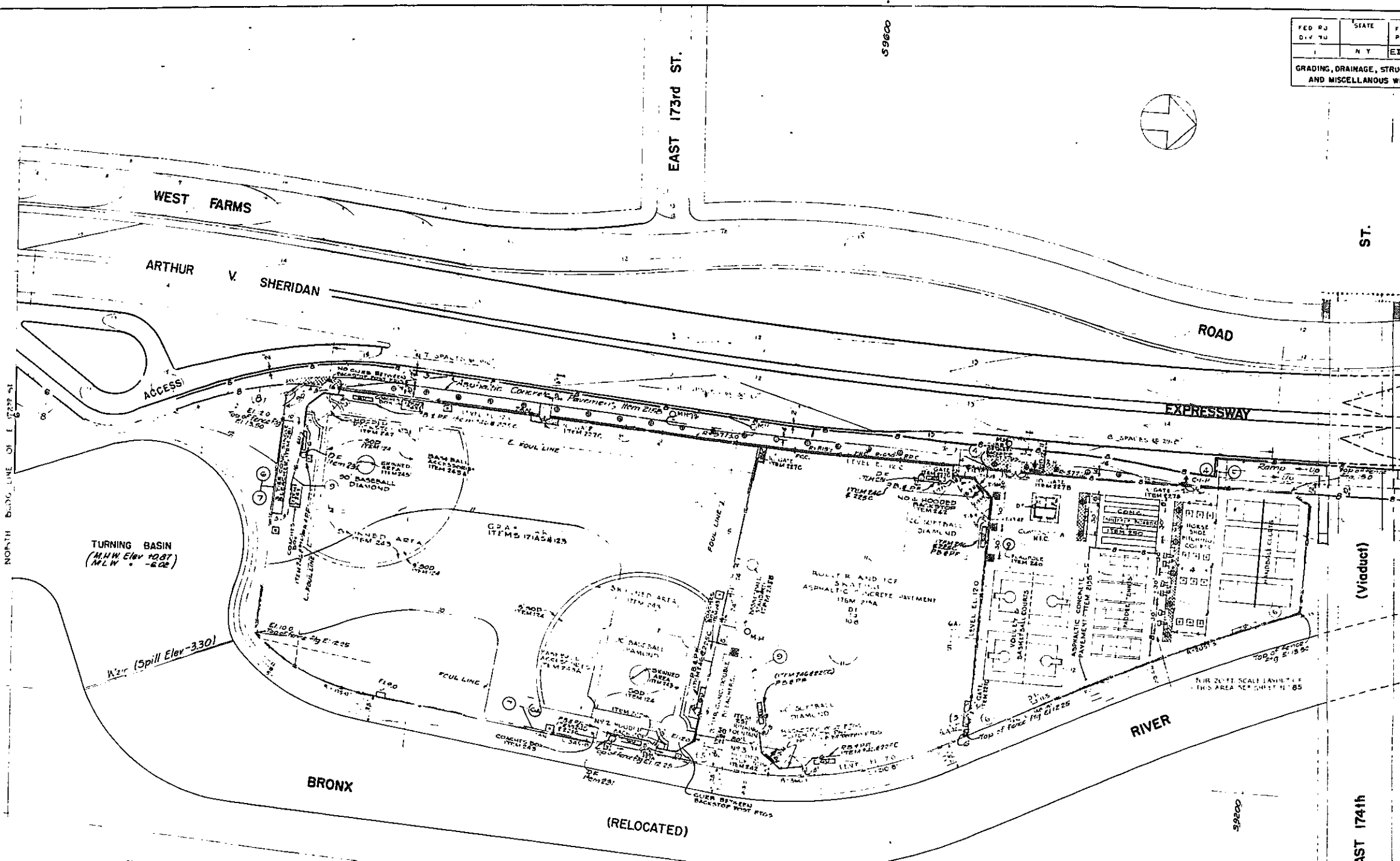
LANDSCAPED AREA NO. 1
GENERAL PLAN

SCALE 1" = 20'-0"	DATE June 30, 1947	SHEET NO. 83
----------------------	-----------------------	-----------------

CLARKE & RAPUANO
NEW YORK, N. Y. ENGINEERS

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EE-2784(4)		84	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



- NOTES**
- 1- See Notes & Legend on Sheet No 85
 - 2- For Alignment & Paving, see Sheet No 21
 - 3- Grading see Sheet No 20
 - 4- Drainage & Utilities, see Sheet No 31
 - 5- Electrical Distr. see Sheet No 35
 - 6- Playground equipment shall be built as per drawing on sheet 3, Dept of Parks
 - 7- Control Station is N.I.C.
 - 8- A minimum of two (2) borings shall be obtained under items 461 and/or 462
 ** By hand-drawn walls location & area (1) boring obtained under item 461 and/or 462 at the flagpole location. A.O.B. before construction recommended by
 of wall & flagpole is started

In charge of J. MILLS & JEE
 Made by FRANCIS J. JEE
 Traced by J. J. JEE
 Checked by J. J. JEE

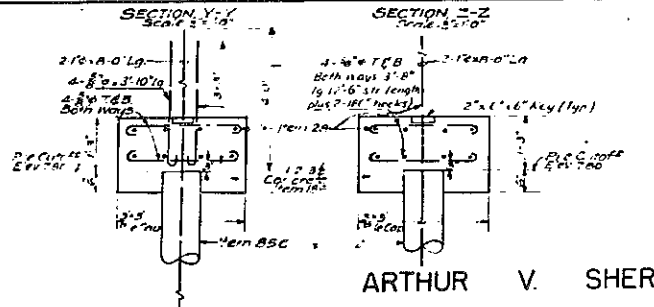
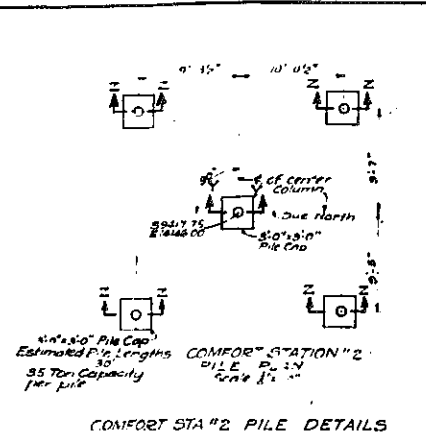
CORRECT AS BUILT
 Rev Feb 8, 1956

**ARTHUR V. SHERIDAN EXPRESSWAY
 LANDSCAPED AREA NO. 2
 GENERAL PLAN**

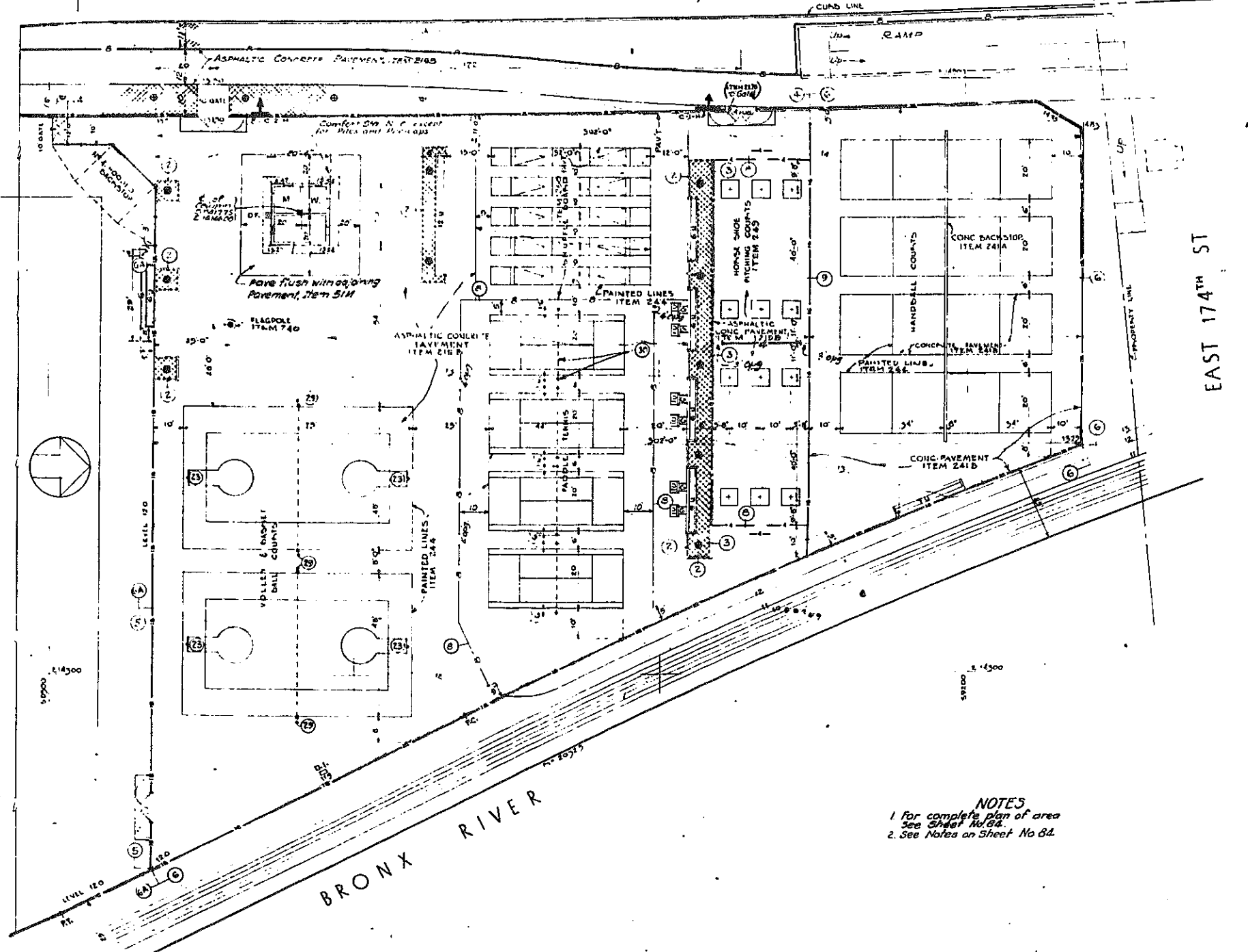
SCALE	DATE	SHEET NO.
CLARKE & RAPUANO		84
NEW YORK, N. Y.		ENGINEER

FED RD DIV NO	STATE	FED AID PRO. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
	N Y	EL-216-1451		85	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST TO E. TREMONT AVE.
CONTRACT NO. 2



ARTHUR V. SHERIDAN EXPRESSWAY



- NOTES FOR PILE DETAILS**
1. Reinforcing bars to be deformed, use of intermediate grade rebar is not allowed.
 2. Concrete covering rebar in steel shall be a minimum of 3" in diameter.
 3. All reinforcing bars shall be lapped 40 diameters.
 4. Additional reinforcement shall be provided in all piles. Details of the additional reinforcement shall be the same as that shown on sheet No. 83B except that the top of the 1/2" diameter bars shall be 4" above the cut off (Dowel length 1' 1" 6"-11" steel length plus 8" 180° hook).
 5. At least one tying shall be taken under Item 461 and for Item 462 at the center pile cap before any pile shells are driven. Est. pile lengths shall be verified or revised depending on the boring information R.O.M.E.
 6. All reinforcing bars which are to be left exposed shall be carefully wrapped with Trantex Pipe Wrapping tape type V-10 as manufactured by Johns-Manville Co. or approved equal. The trantex covering shall be wrapped with building paper before backfilling above the pile caps. Care shall be included in Item 261 Care shall be taken in backfilling over the pile caps in order to prevent bending or otherwise damaging the projecting reinforcing bars and their protective covering.

- NOTES**
1. For complete plan of area see Sheet No. 84.
 2. See Notes on Sheet No. 84.

- LEGEND**
- STONE BLOCK SURFACING-ITEM 213 A
 - CONCRETE SIDEWALK-ITEM 105 5
 - CHAIN LINK FENCE (SET IN POSTS) NUMBER DENOTES HEIGHT ITEM 225
 - CHAIN LINK FENCE (SET IN CURBS)-ITEM 225
 - CONCRETE CUMBS (NUMBER DENOTES TYPE)-ITEM 97
 - BASKETBALL STANDARD (REMOVABLE)-ITEM 238A
 - VOLLEYBALL POST & NET (REMOVABLE)-ITEM 237
 - PROPOSED TREES - N I C
 - D.I. DRAIN INLET
 - BENCHES U - UNITS -ITEM 246
 - D.F. DRINKING FOUNTAIN - ITEM 231
 - CONTOURS - PROPOSED FINAL GRADE
 - PROPOSED ELEVATION
 - PARK SIGNS (LETTERS DENOTE TYPE, ARROW INDICATES DIRECTION) ITEM 247
 - QUICK COUPLING VALVE WITH C.I. BOX, ITEM 248U
 - BASKETBALL BACKSTOP & GOAL ON FENCE, ITEM 258B
 - PADDLE TENNIS COURT ACCESSORIES ITEM 249
 - PLAYERS BENCH & PROTECTIVE FENCE ITEM 246 & ITEM 225C
 - GAME TABLE Rev. 11-25-58 Rev. 2-13-56

In charge of... J. P. MILLS
Made by... P. CANCELLIERI
Traced by... J. APATONY
Checked by... J. P. M.

ARTHUR V. SHERIDAN EXPRESSWAY

LANDSCAPED AREA NO 2

PART PLAN

SCALE: 1" = 20'-0" DATE: JUNE 30, 1947 SHEET NO: 85

CLARKE B. RAPUANO NEW YORK, N. Y. ENGINEERS

CORRECT AS BUILT

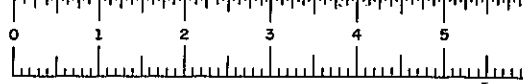
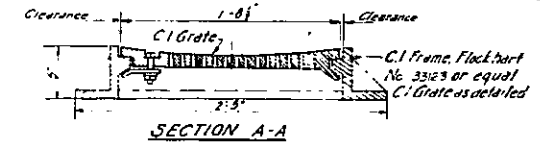
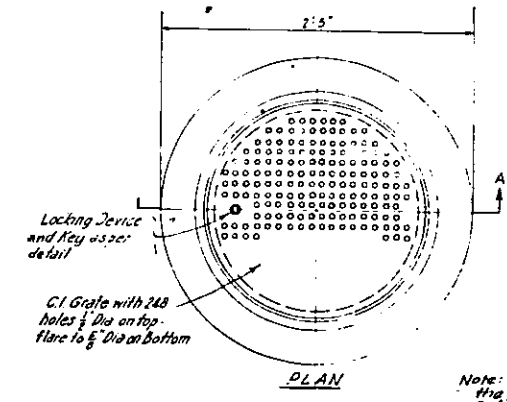
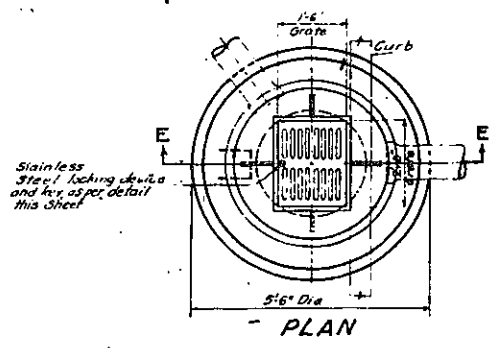
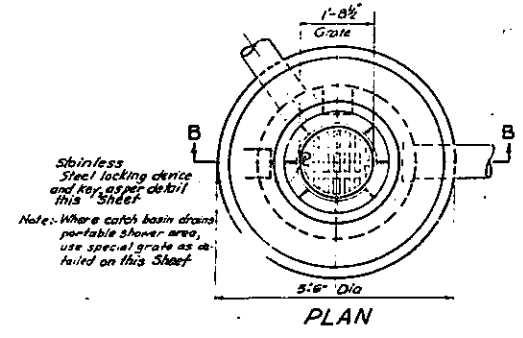
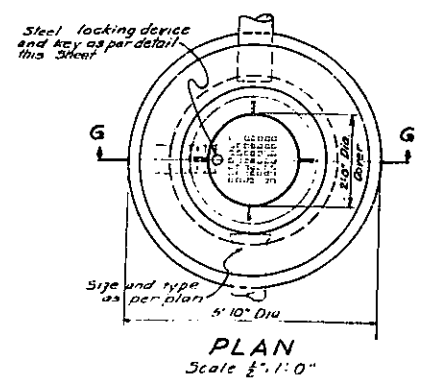


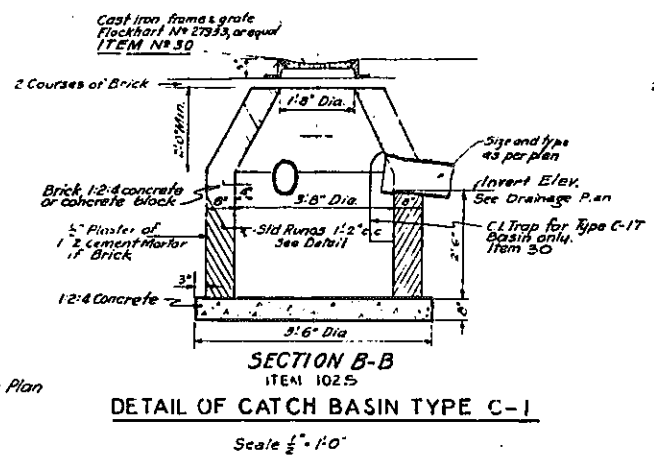
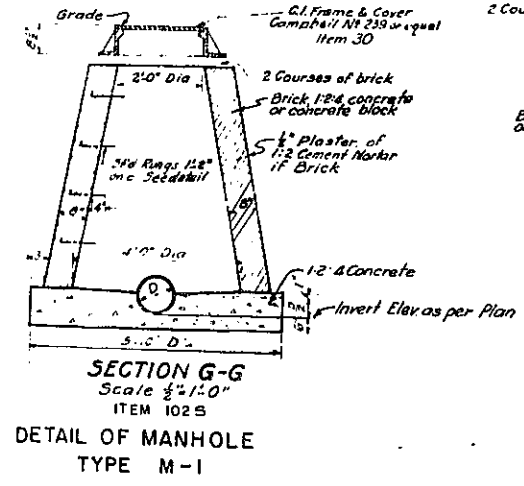
PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-278-1(45)		86	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO 2

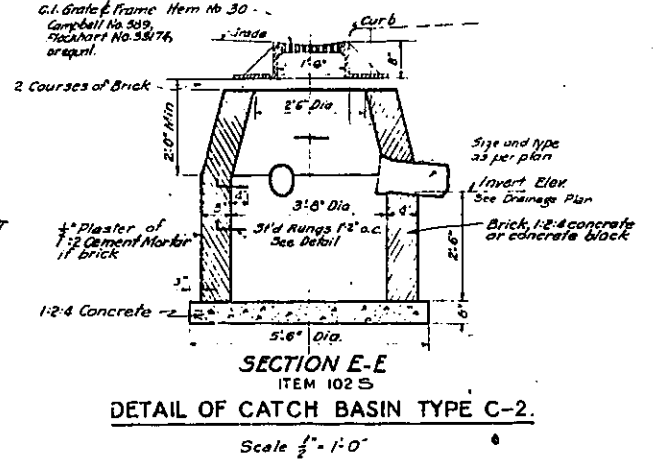


DETAIL OF GRATING FOR SHOWER



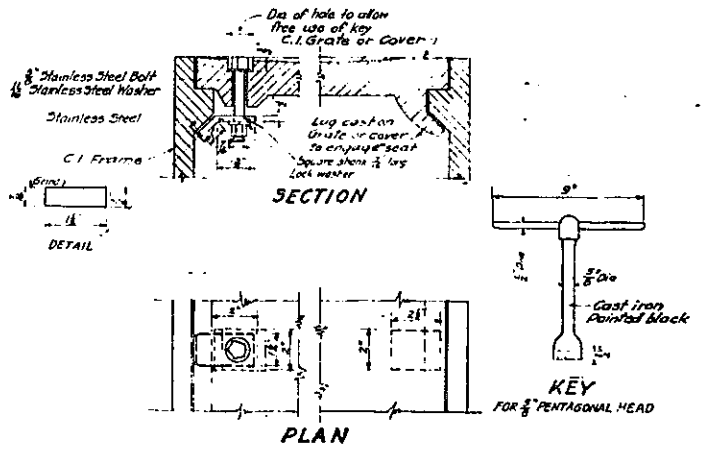
DETAIL OF CATCH BASIN TYPE C-1

Note: Type C-1T Basin is same as Type C except install hood or trap over outlet.

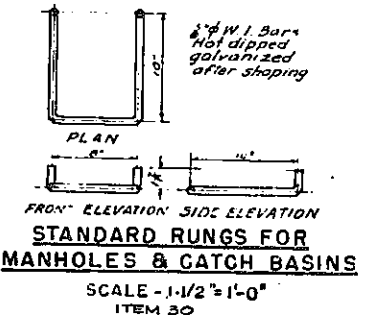


DETAIL OF CATCH BASIN TYPE C-2

NOTE: In the Ice Skating Area, the Contractor shall supply one solid C.I. Basin Cover to fit Flockhart Frame No. 27933 or equal with locking device as per detail in addition to standard grate, Item 30



STAINLESS STEEL LOCKING DEVICE and KEY
Scale 3/4" = 1'-0"
ITEM 30



- NOTES
- 1- For Landscaped Area #1 development see Sheet #83.
 - 2- For Landscaped Area #2 development see Sheet No. 84.
 - 3- For Drainage Plans see Sheet No. 30 of 31

CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

LANDSCAPED AREA NO. 1 & 2
DRAINAGE DETAILS

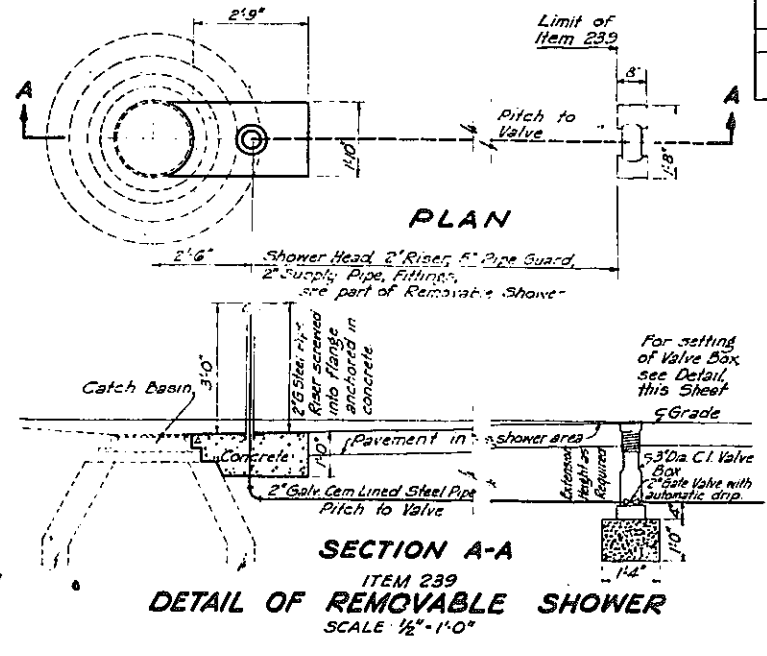
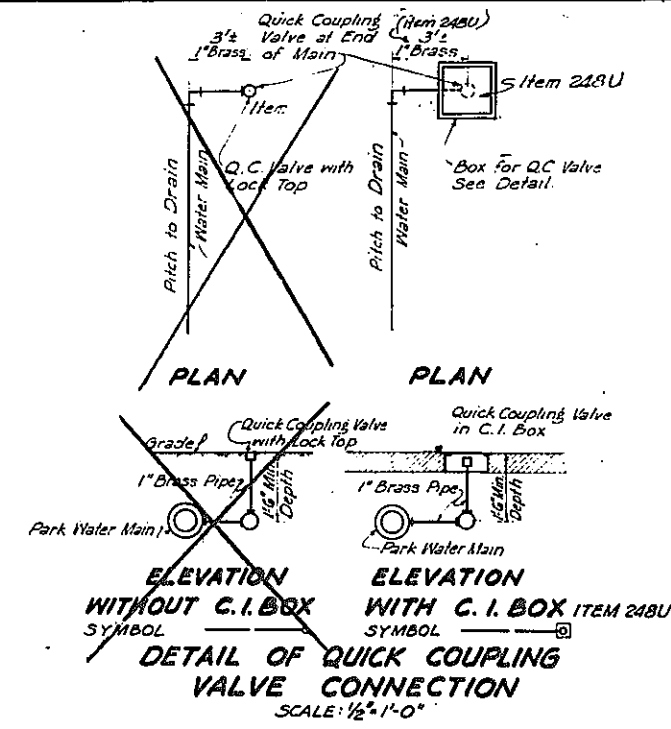
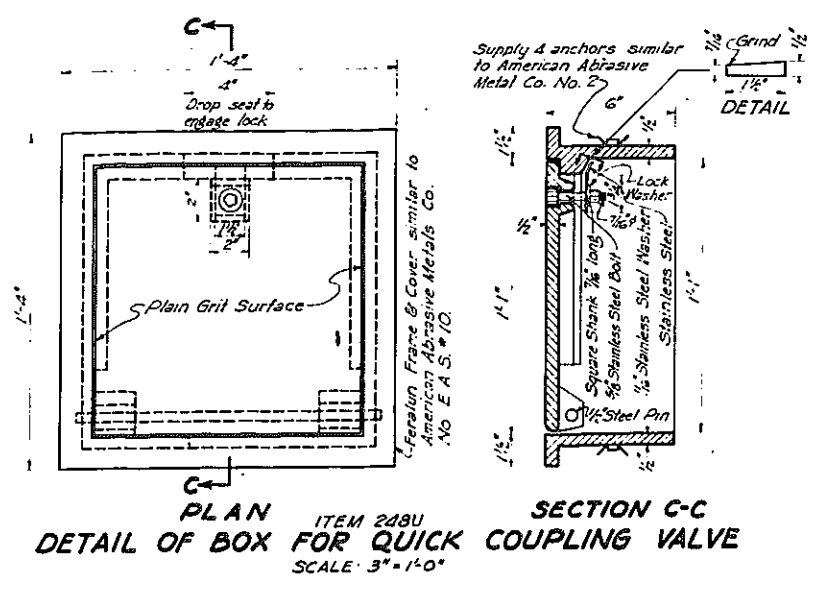
SCALE	DATE	SHEET NO.
As Shown	11-11-55	86

CLARKE & RAPUANO ENGINEERS
NEW YORK, N. Y.

In charge of E. Forman & J.E.E.
Made by E. Sanoann
Traced by G.K.
Checked by E. Forman & J.E.E.

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EI-276 (43)		87	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



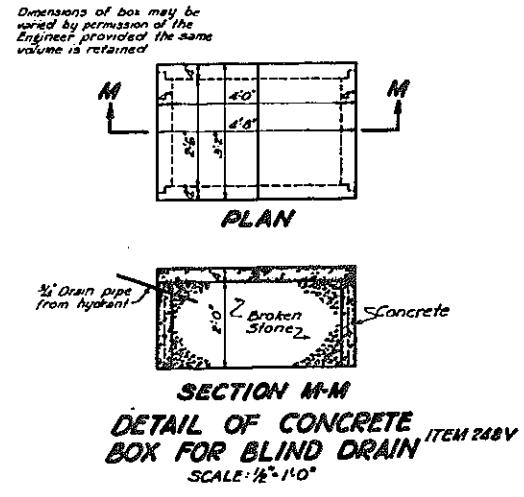
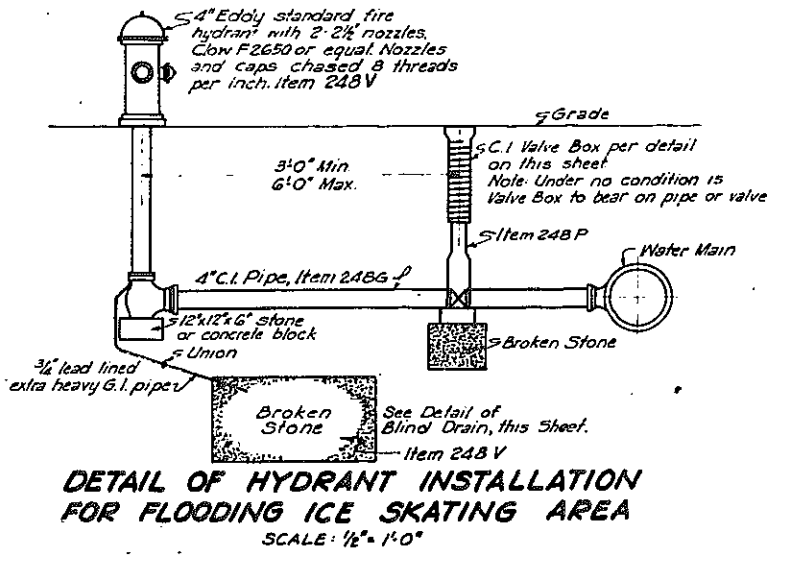
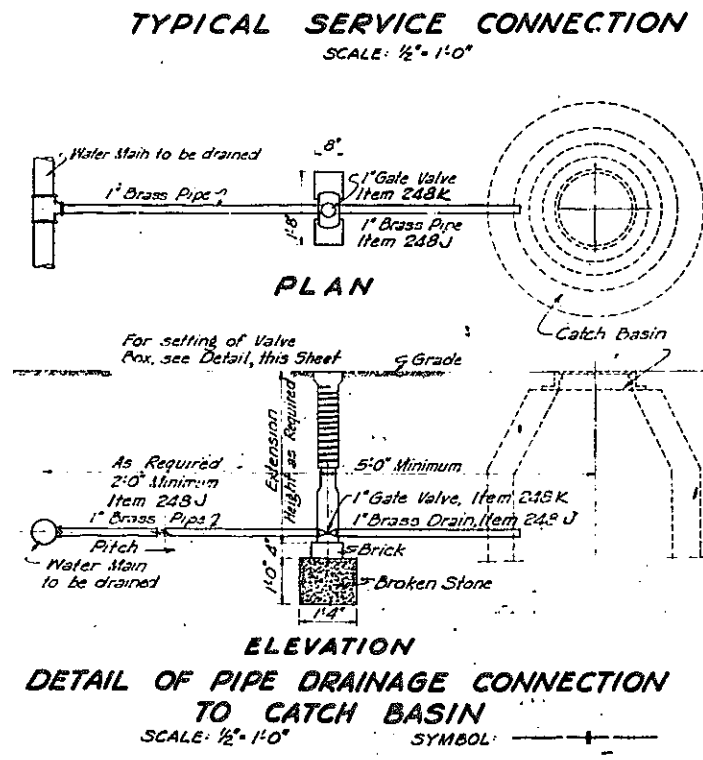
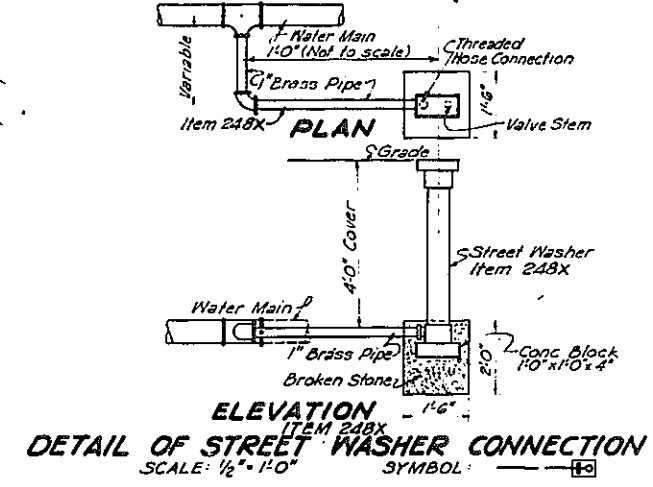
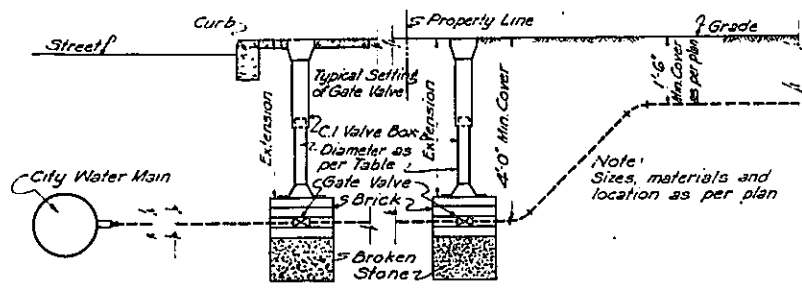
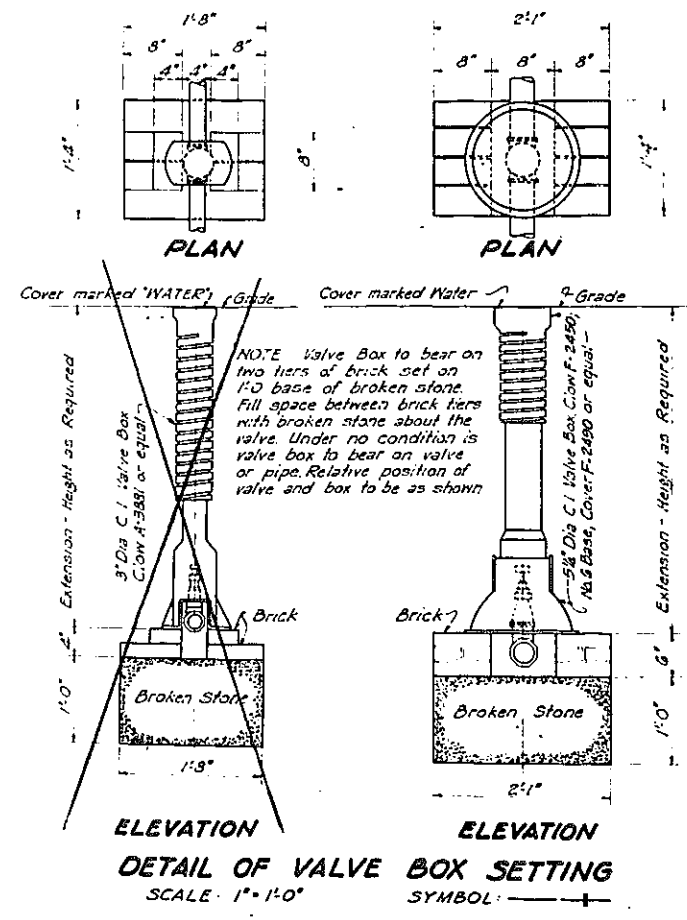
TYPES OF VALVES & BOXES FOR WATER SUPPLY SYSTEMS - 1" TO 8" DIA. PIPE

TYPE OF VALVE	VALVE SIZE	PIPE	OPERATING NUT	OPEN	VALVE BOX DIA.	*
Gate Valve	1"	CL.S.	1"	L.H.	5 1/2"	Flow 1500
Gate Valve	2"	CL.S.	1"	L.H.	5 1/2"	Flow 1500
Gate Valve with Automatic Drip	1 1/2"	CL.S.	1"	L.H.	5 1/2"	Flow 1500
Quick Coupling Irrigation Valve	1"	Brass	Bayonet Type Coupler			Flow 1500
Street Washer	1"	Brass				(a)

C.I. - Cast iron
C.L.S. - Cement lined steel.
L.H. - Left hand.
* - Valve Box Catalogue Number, or equal
(a) - 1" Hose Connection & bottom connection with 1" Waterway ground drained, 2" cover or as noted Genuine Murdock.

GENERAL NOTES:

- When tolerance in dimensions of castings is not shown, the variation in thickness of metal shall not be greater than 1/8" and all other dimensions shall conform to those shown on the drawings as closely as consistent with the best foundry practice.
- For Excavation Payment Lines see Sheet No. 8.
- See Note 11 on Sheet No. 83.



Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

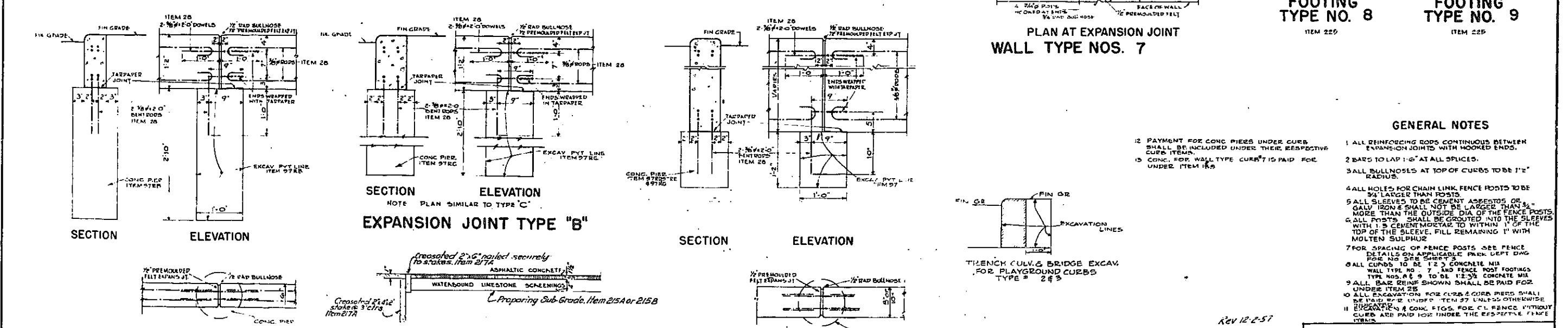
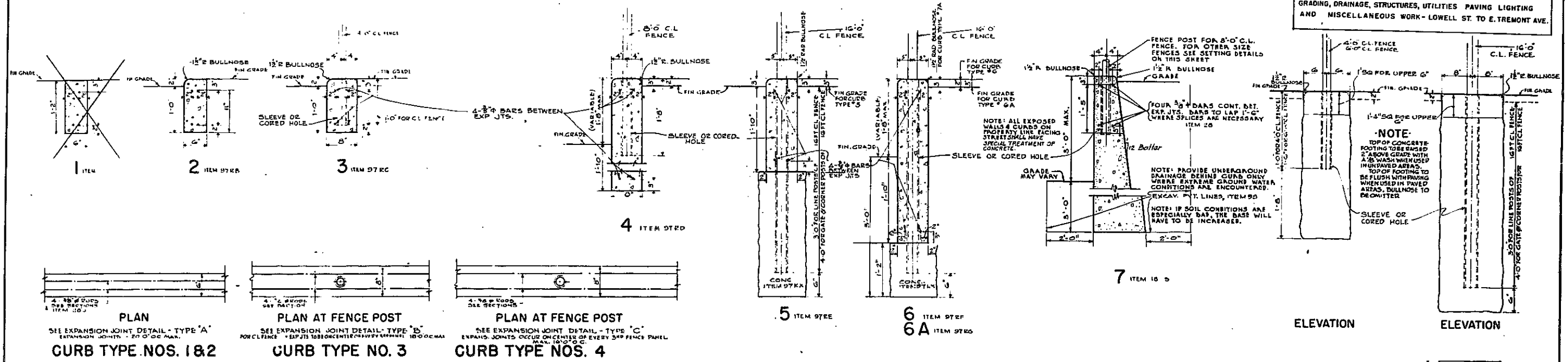
LANDSCAPED AREAS
WATER DETAILS

SCALE AS SHOWN	DATE 11-12-55	SHEET NO. 87
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CLARKE B. RAJUANO
NEW YORK, N. Y.

In charge of E. Forman & J.E.E.
Made by G.F. Farias & E. Sanborn
Traced by G.F. Farias
Checked by E. Forman & J.E.E.

CONTRACT NO. 2					
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	ET-218 (195)		88	139
GRADING, DRAINAGE, STRUCTURES, UTILITIES PAVING LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.					



- GENERAL NOTES**
- 1 ALL REINFORCING RODS CONTINUOUS BETWEEN EXPANSION JOINTS WITH HOOKED ENDS.
 - 2 BARS TO LAP 1'-0" AT ALL SPICES.
 - 3 ALL BULLNOSES AT TOP OF CURBS TO BE 1 1/2" RADIUS.
 - 4 ALL HOLES FOR CHAIN LINK FENCE POSTS TO BE 3/4" LARGER THAN POSTS.
 - 5 ALL SLEEVES TO BE CEMENT ASPHALT OR GALV. IRON & SHALL NOT BE LARGER THAN 3/4" MORE THAN THE OUTSIDE DIA. OF THE FENCE POSTS.
 - 6 ALL POSTS SHALL BE GROUTED INTO THE SLEEVES WITH 1:3 CEMENT MORTAR TO WITHIN 1" OF THE TOP OF THE SLEEVE. FILL REMAINING 1" WITH MOLTEN SULPHUR.
 - 7 FOR SPACING OF FENCE POSTS SEE FENCE DETAILS ON APPLICABLE PARK DEPT DWG FOR NO. 218 SHEET 3.
 - 8 ALL CURBS TO BE 1:2 CONCRETE MIX WALL TYPE NO. 7, AND FENCE POST FOOTINGS TYPE NOS. 8 & 9 TO BE 1:2:3 CONCRETE MIX.
 - 9 ALL BAR REINFORCING SHALL BE PAID FOR UNDER ITEM 25.
 - 10 ALL EXCAVATIONS FOR CURBS & CURB PIERS SHALL BE PAID FOR UNDER ITEM 27 UNLESS OTHERWISE SPECIFIED.
 - 11 EXCAVATIONS & CONC. FIGS. FOR CL FENCE WITHOUT CURBS ARE PAID FOR UNDER THE 255-275 FENCE ITEMS.

In Charge of...
Made by...
Traced by...
Checked by...

ARTHUR V. SHERIDAN EXPRESSWAY		
LANDSCAPED AREAS NOS. 1 & 2 CURB AND PAVEMENT DETAILS		
SCALE 1" = 1'-0"	DATE JUNE 30, 1947	SHEET NO. 88
CLARKE & RAPUANO NEW YORK, N.Y.		ENGINEERS

CORRECT AS BUILT

109



FIASE 60-1

SCHEDULE A				SCHEDULE B				SCHEDULE C							
LOCATION AND QUANTITY OF PAYMENT ITEMS				DETAIL SPECIFICATIONS TO ACCOMPANY PUBLIC WORKS SPECIFICATIONS 1957				DETAIL SPECIFICATIONS FOR PLANTS							
STATION TO STATION	SIDE	ITEM	QUANTITY & UNIT	REMARKS	ITEM NO.	PAR. NO.	DESCRIPTION	ITEM & SUBITEM	QUAN.	GENUS & SPECIES	ABBR.	COMMON NAME	SIZE	SPECIFICATIONS & REMARKS	SPACING
25+0 - 34+25		121A	48 C.Y.	See Plan Sheet No. 89	121AS		TOPSOIL FURNISHED AND PLACED								
							Locations - See Schedule A								
25+0 - 34+25		123	0.07 Acres	On all topsoiled areas See Plan Sheet No. 89			Depth - See Sheet No. 89 (Legend)								
34+25 - 49+10	L&R	121AS	756 C.Y.	See Plan Sheet No. 90			Measurement and Payment - See Proposal ("without compaction")								
34+25 - 49+10	L&R	123	1.15 Acres	On all topsoiled areas See Plan Sheet No. 90	123		SEEDING								
49+10 - 55+00	L&R	121AS	2928 C.Y.	See Plan Sheet No. 91			Areas - See Schedule A								
49+10 - 55+00	L&R	123	3.89 Acres	On all topsoiled areas See Plan Sheet No. 91			Seeds - See Schedule A								
55+00 - 62+00	L&R	121AS	1,095 C.Y.	See Plan Sheet No. 91			Soil Amendments - Not required								
55+00 - 62+00	L&R	123	1.74 Acres	On all topsoiled areas See Plan Sheet No. 91			Line - Materials M-52, Agricultural Limestone								
62+00 - 70+00	R	121AS	3,932 C.Y.	See Plan Sheet No. 92			Fertilizer - Materials M-51 Fertilizer, Type No. 1 or approved equivalent to furnish 100 pounds of nitrogen per acre								
62+00 - 70+00	R	123	5.73 Acres	On all topsoiled areas See Plan Sheet No. 92			Water - Not required								
70+00 - 75+00	L&R	121A	2,988 C.Y.	See Plan Sheet No. 92 & 92A			Insecticides - Not required								
70+00 - 75+00	L&R	123	3.91 Acres	On all topsoiled areas See Plan Sheet No. 92 & 92A			Mulch - Not required								
49+10 - 62+50	R	124	1770 S.Y.	See Plan Sheet No. 91			Seasons for Seeding - March 15th to May 1st and August 15th to October 1st								
TOTALS							Inoculation - Not required								
Total		121AS	11,000 C.Y.	Neat			Lime rate - One Ton per Acre								
			11,600 C.Y.	Rounded			Fertilizer rate - 1,000 pounds per acre								
Total		123	15.39 Acres	Neat			Method No. 11 for all slopes 1 on 2 and steeper as directed by the Engineer								
			15.5 Acres	Rounded			Method No. 21 for all other areas (on Parkways)								
Total		124	1,915 S.Y.	Neat			Maintenance - Alternate 1: A satisfactory stand of grass will be required. Maintenance shall include mowing to a minimum height of 3" when growth reaches a height of 6"								
			1,950 S.Y.	Rounded											
			1,770 S.Y.	Final											

STATION TO STATION	SIDE	ITEM	QUANTITY & UNIT	REMARKS	ITEM NO.	PAR. NO.	DESCRIPTION	ITEM & SUBITEM	QUAN.	GENUS & SPECIES	ABBR.	COMMON NAME	SIZE	SPECIFICATIONS & REMARKS	SPACING

STATION TO STATION	SIDE	ITEM	QUANTITY & UNIT	REMARKS	ITEM NO.	PAR. NO.	DESCRIPTION	ITEM & SUBITEM	QUAN.	GENUS & SPECIES	ABBR.	COMMON NAME	SIZE	SPECIFICATIONS & REMARKS	SPACING

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E-278(65)		88A	139
ROADSIDE DEVELOPMENT SHEET					
ARTHUR V. SHERIDAN EXPRESSWAY					
CONTRACT NO. 2					

SCHEDULE D				
DETAIL SPECIFICATIONS FOR SEEDS				
A- MIN. % PURITY	B- MIN. % GERMINATION	C- POUNDS PURE LIVE SEED PER ACRE		
NAME	VARIETY	A	B	C
Red Fescue	Commercial		80	60
Creeping Red Fescue	Commercial			
Redtop	Commercial		185	10
White Clover	Commercial		90	5
TOTAL				75

SUMMARY		
ITEM	TOTAL QUANTITY ROUNDED	NAME OF ITEM
121AS	11,727 C.Y.	Topsoil Furnished and Placed
123	16.17 Acres	Seeding
124	1,770 S.Y.	Sodding

MADE BY _____ TRACED BY _____ CHECKED BY _____
K. F. STONER

CORRECT AS BUILT

PREPARED PURSUANT TO THE HIGHWAY LAW AND RECOMMENDED BY _____
ENGINEER, DISTRICT NO. _____

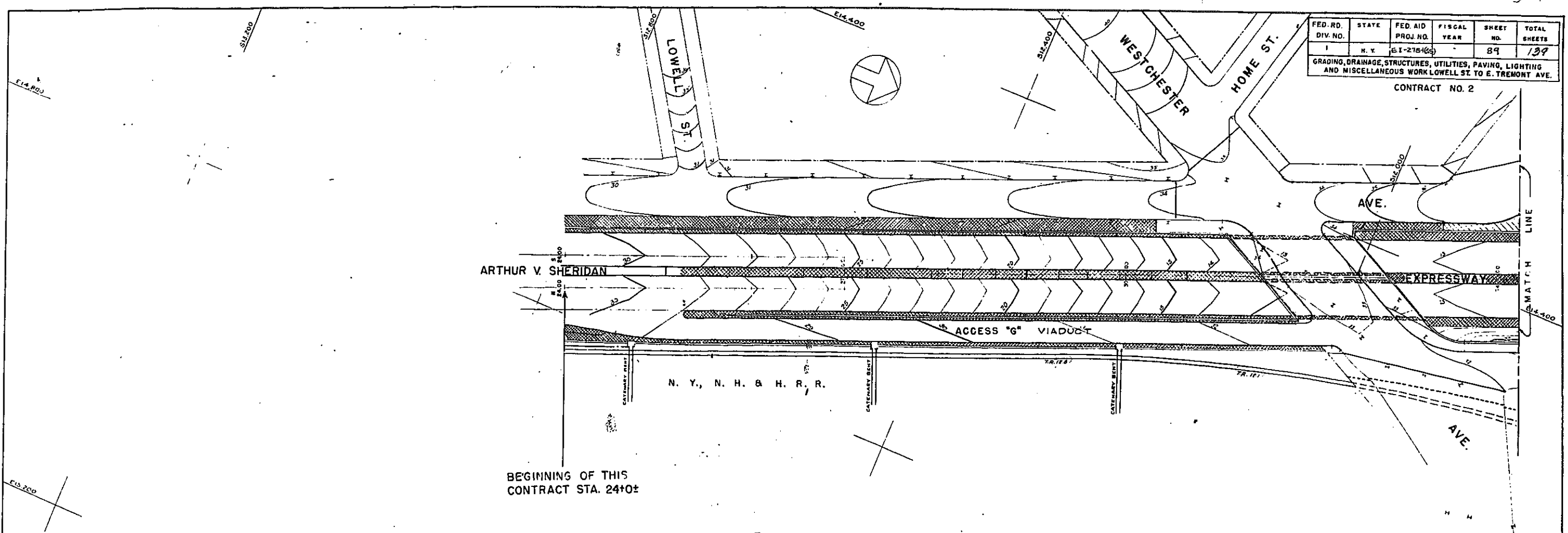


PLATE 60-1








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1	N. Y.	E-1-276(6)		89	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO. 2



LEGEND

-  Indicates those areas wherein this contractor shall spread topsoil to a depth of 12" below finished grade and seed under items 12143 and 123; for future planting (shrubs).
-  Indicates those areas wherein this contractor shall spread topsoil to a depth of 24" and plant sod under Item 1245
-  Indicates those areas wherein this contractor shall spread topsoil to a depth of 6" below finished grade and seed under items 12143 and 123; for future planting (Ground-Cover).
-  Indicates those areas wherein this contractor shall spread topsoil to a depth of 4" below finished grade and seed under items 12143 and 123.
-  Indicates broken stone, Item 95
-  Indicates paved areas
-  Indicates guide rail fence.

CORRECT AS BUILT

REV 12-2-57

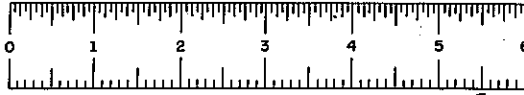
ARTHUR V. SHERIDAN EXPRESSWAY

TOPSOILING & SEEDING PLAN
STATION 25+0± TO STATION 34+25±

SCALE 1" = 50'	DATE 7-12-56	SHEET NO. 89
CLARKE & RAPUANO NEW YORK, N. Y.		ENGINEERS

In Charge Of: M. Dally Spraul
 Made By: Kenneth F. Blener
 Traced By: K.F.S.
 Checked By: M.G.S. & K.F.S.

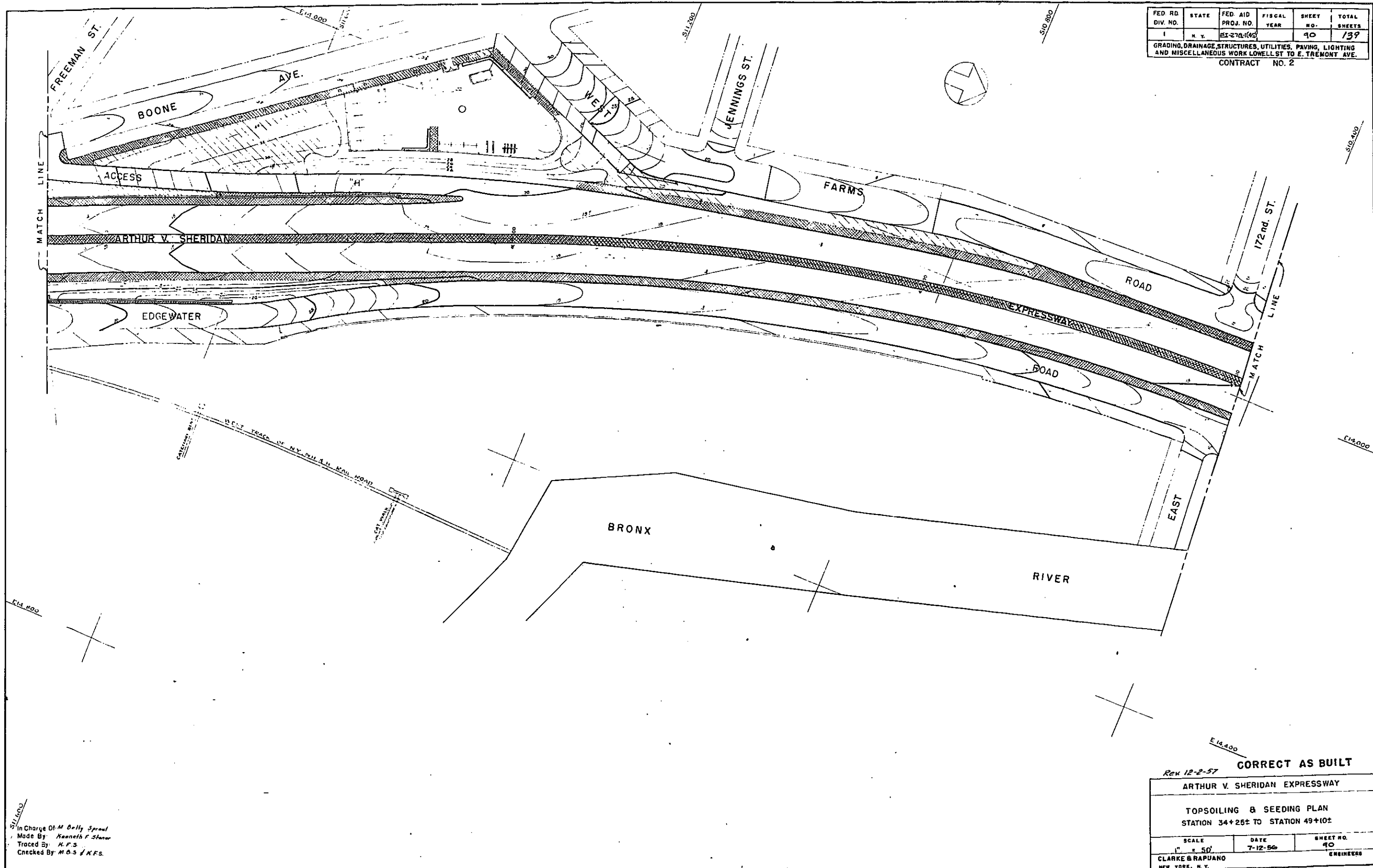
88



PHASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EE-272-1(45)		90	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK LOWELL ST TO E. TREMONT AVE.
CONTRACT NO. 2



In Charge O.M. Kelly Sprout
 Made By Kenneth F. Stone
 Traced By H.F.S.
 Checked By M.B.S. & K.F.S.

Rev 12-2-57 **CORRECT AS BUILT**

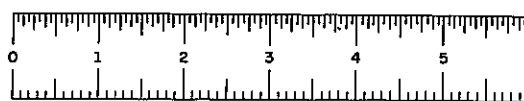
ARTHUR V. SHERIDAN EXPRESSWAY

TOPSOILING & SEEDING PLAN
 STATION 34+25± TO STATION 49+10±

SCALE 1" = 50'	DATE 7-12-56	SHEET NO. 90
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CLARKE & RAPUANO
NEW YORK, N.Y. ENGINEERS

67

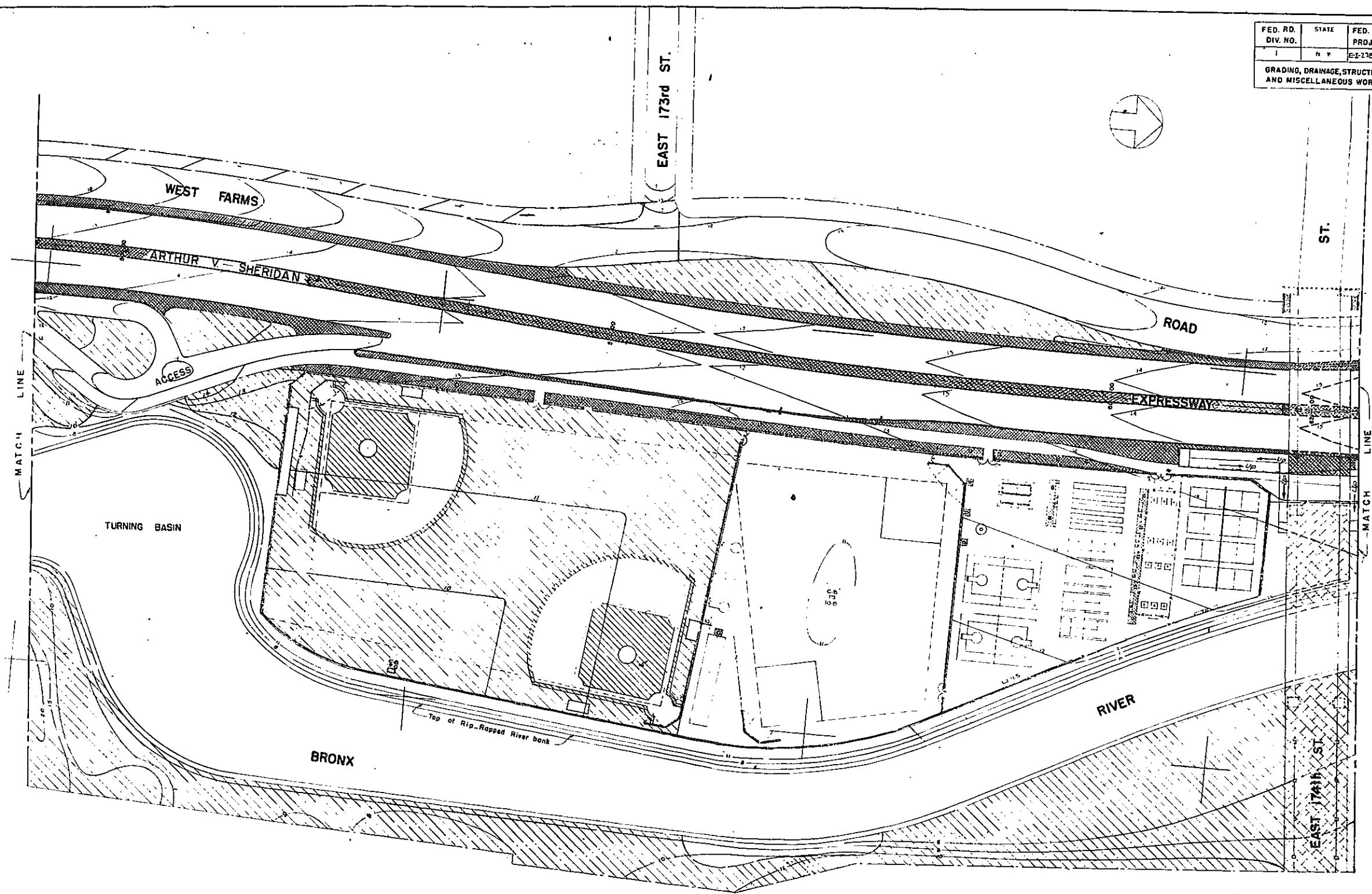


FIASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E-278-1(49)		91	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO. 2



CORRECT AS BUILT

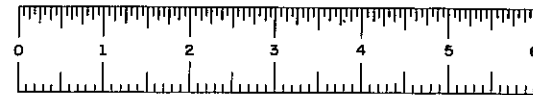
Rev 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

TOPSOILING & SEEDING PLAN
STATION 49+10± TO STATION 62+50±

1" SCALE = 50'	DATE 7-12-56	SHEET NO. 91
CLARKE & RAPUANO NEW YORK, N. Y.		ENGINEERS

In charge of *M. Dally Sprout*
 Made by *Kenneth F. Sloner*
 Traced by *KFS*
 Checked by *MBS & KFS*



FIASE 60-1



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
I	N.Y.	EI-278-1(65)		42	139

CONTRACT NO. 2

CORRECT AS BUILT

Rev. 12-2-57

ARTHUR V. SHERIDAN EXPRESSWAY

TOPSOILING & SEEDING PLAN
STATION 62+50± TO STATION 72+55±

SCALE 1" = 50'	DATE 7-12-56	SHEET NO. 42
CLARKE & RAPUANO NEW YORK, N.Y.		

In Charge Of: *M. Betty Sprout*
 Made By: *Henneth / Sloner*
 Traced By: *H.S.*
 Checked By: *M.D.S. / K.F.S.*

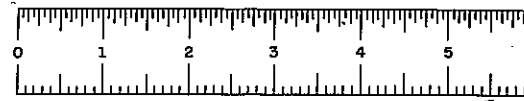
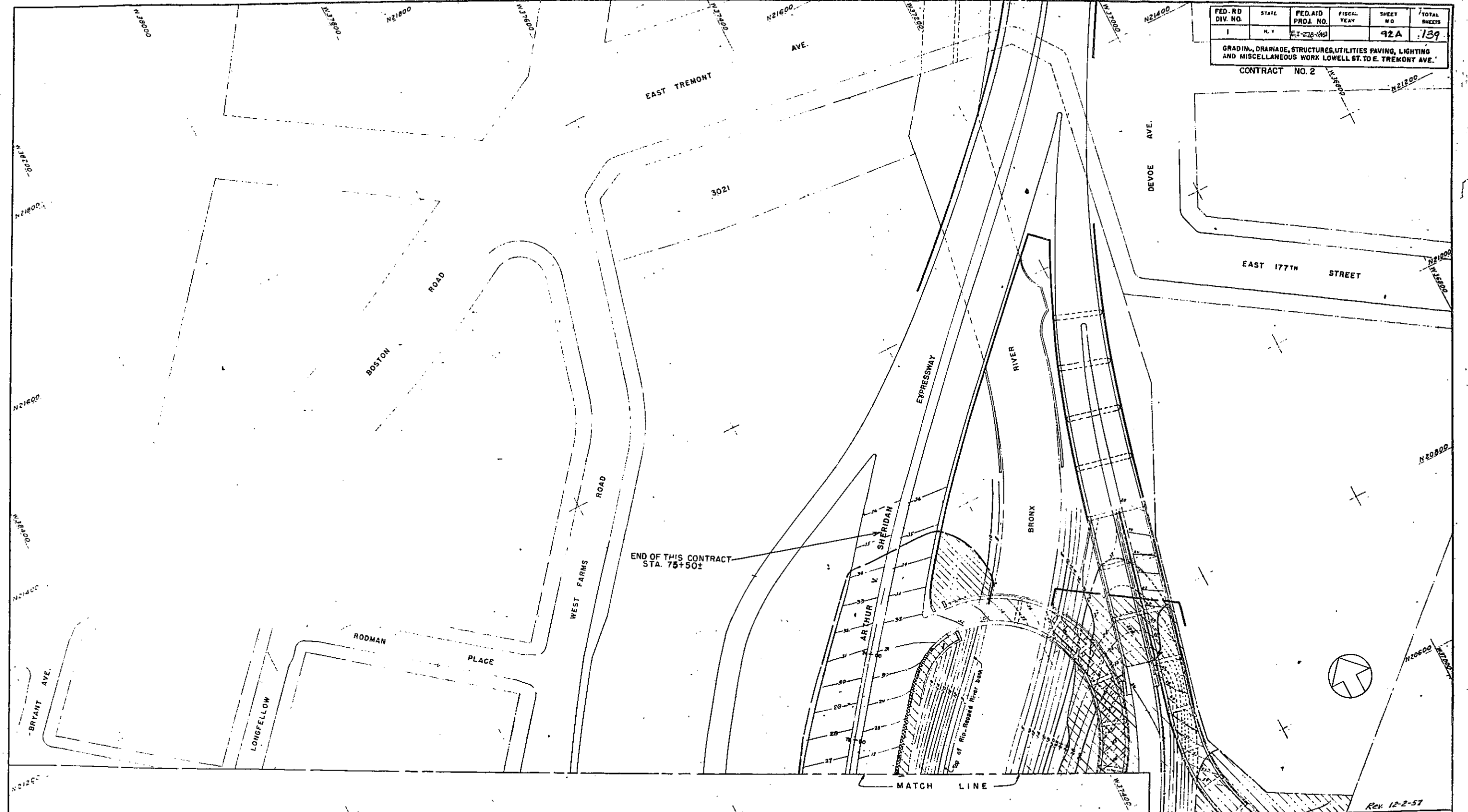


PLATE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	E-1-212-169		92A	139

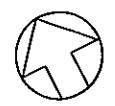
GRADING, DRAINAGE, STRUCTURES, UTILITIES PAVING, LIGHTING AND MISCELLANEOUS WORK LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO. 2



END OF THIS CONTRACT STA. 75+50±

MATCH LINE



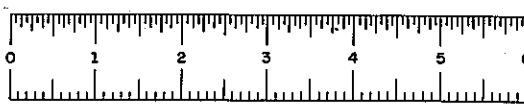
Rev. 12-2-57

In Charge Of: M. Betty Sproul
 Made By: Kenneth C. Sloner
 Traced By: M.F.S.
 Checked By: M.A.S. & A.E.S.

CORRECT AS BUILT

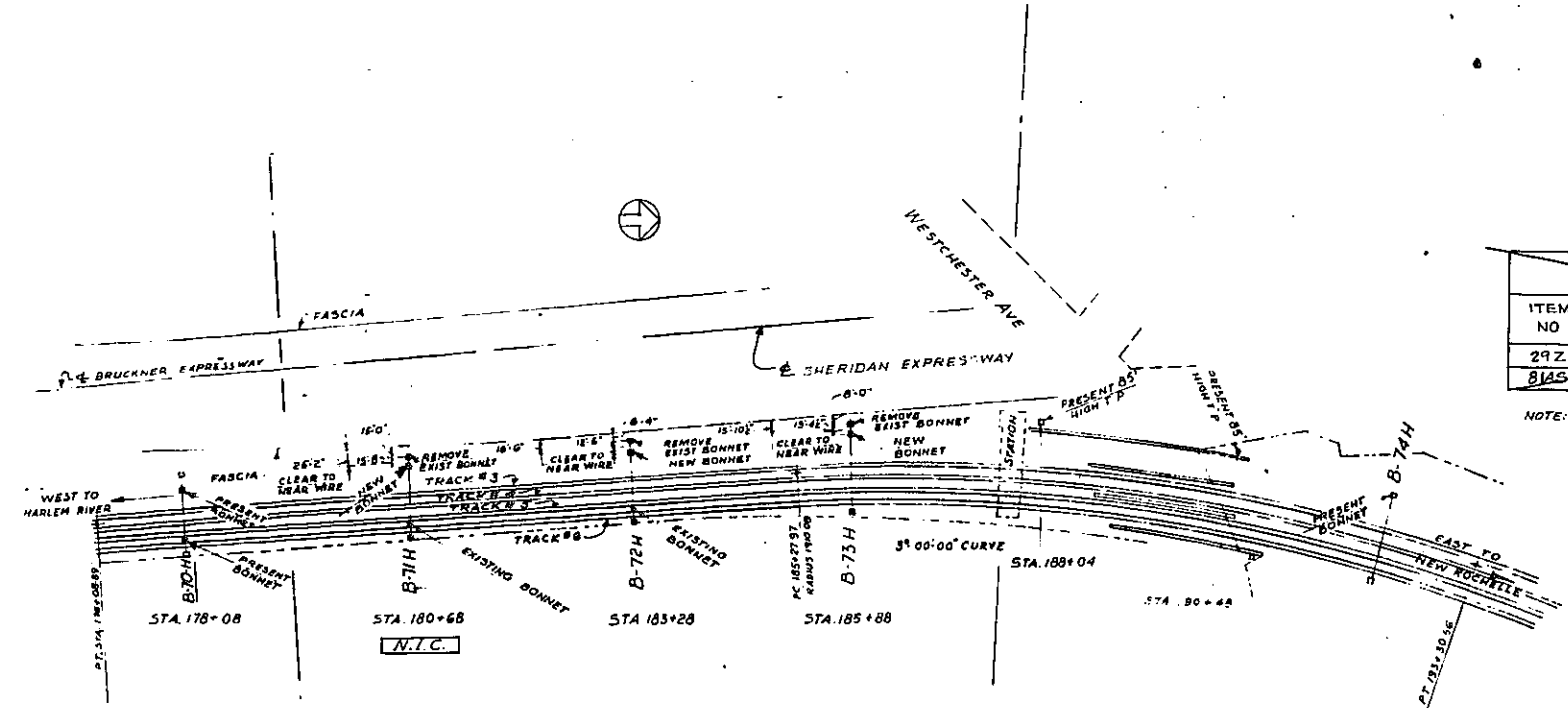
ARTHUR V. SHERIDAN EXPRESSWAY		
TOPSOILING & SEEDING PLAN STATION 72+55± TO STATION 75+00±		
SCALE 1" = 50'	DATE 7-12-56	SHEET NO. 92A
CLARKE & RAPUANO NEW YORK, N. Y.		ENGINEERS

5/12x



FIASE 60-1

FED. AID PROJ. NO.	FED. ROAD DIV. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ES-276-4	1	N. Y.		93	139
ARTHUR V. SHERIDAN EXPRESSWAY					
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.					
CONTRACT NO. 2.					



LOCATION PLAN
SCALE 1"=100'

ESTIMATE OF QUANTITIES						
ITEM NO	DESCRIPTION	UNIT	SUPERSTRUCT.		TOTAL	
			NEAT	ROUND	NEAT	ROUND
29Z	STRUCTURAL STEEL	Lb.	9200	6700	5200	5700
81AS	REMOVING EXISTING STEEL SUPERSTRUCTURES	L.S.	100%	100%	100%	100%

NOTE: THESE QUANTITIES ARE INCLUDED IN ESTIMATE OF QUANTITIES FOR ACCESS 6" VINDUCT SEE SHEET NO. 107.

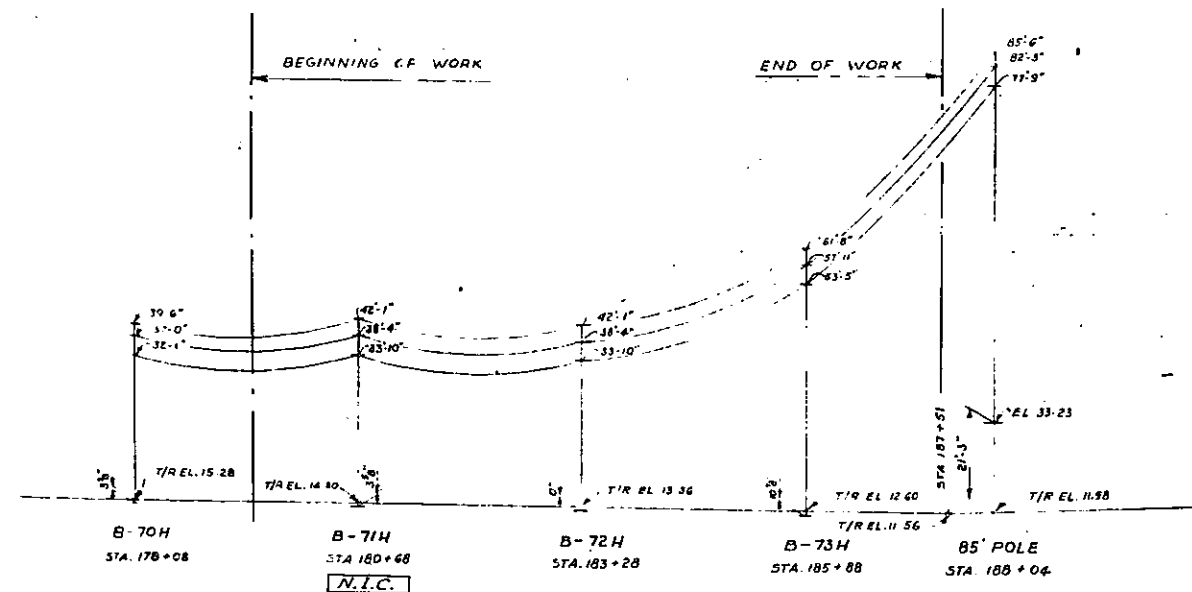
INITIAL SAGS VS. SPANS & TEMPERATURE FOR 4/0 & 2/0 HARD DRAWN COPPER CONDUCTORS

SPAN	30°	40°	50°	60°	70°	80°	90°
140'	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-1"
150'	0'-9"	0'-11"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"
160'	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"
170'	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"
180'	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"
190'	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"
200'	1'-7"	1'-8"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"
210'	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"
220'	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-8"
230'	2'-1"	2'-3"	2'-5"	2'-6"	2'-8"	2'-10"	2'-11"
240'	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-2"
250'	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"
260'	2'-8"	2'-10"	3'-0"	3'-3"	3'-5"	3'-7"	3'-9"
270'	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-11"	4'-1"
280'	3'-1"	3'-4"	3'-6"	3'-9"	3'-11"	4'-2"	4'-4"
290'	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-6"	4'-8"
300'	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-9"	5'-0"
310'	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-4"
320'	4'-1"	4'-4"	4'-7"	4'-11"	5'-2"	5'-5"	5'-8"

FINAL SAGS VS. SPANS AND TEMPERATURE FOR 4/0 & 2/0 HARD DRAWN COPPER CONDUCTORS

SPAN	30°	40°	50°	60°	70°	80°	90°
140'	0'-4"	1'-0"	1'-0"	1'-7"	1'-2"	1'-2"	1'-3"
150'	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"
160'	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"
170'	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"
180'	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"
190'	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-4"
200'	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"
210'	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"
220'	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"
230'	2'-6"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-5"
240'	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"
250'	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"
260'	3'-2"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-4"
270'	3'-6"	3'-8"	3'-10"	4'-1"	4'-3"	4'-5"	4'-8"
280'	3'-9"	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	5'-0"
290'	4'-0"	4'-3"	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"
300'	4'-4"	4'-6"	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"
310'	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-2"
320'	4'-11"	5'-2"	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"

SAG CHARTS FOR 4/0 & 2/0 HARD DRAWN COPPER CONDUCTORS AT FULL TENSION



PROFILE - NORTH SIDE
SCALE: HOR 1"=100'
VERT 1"=20'

NOTE: WIRE HEIGHTS SHOWN ARE FROM TOP OF FOUNDATION

CORRECT AS BUILT

DATE	BY	FOR
7-31-57	KE	ISSUED FOR CONSTRUCTION
APPROVALS		
GIBBS & HILL, INC. ENGINEERS - ARCHITECTS - CONSTRUCTORS NEW YORK		
JOB NO. 3018C		

N.Y. N.H. & H. R.R. Co.

Chief Engineer
Superintendent

GENERAL NOTES

FOR GENERAL NOTES SEE DWG. BE 28-1

REFERENCE DRAWINGS

- DWG. NO. BE 28-1 - ERECTION DIAGRAMS - BRIDGES B71H, B72H AND B73H
- " " BE 30-1 - STEEL DETAILS OF BONNET B1 - BRIDGES B71H AND B72H
- " " BE 31-1 - STEEL DETAILS OF BONNET B2 - BRIDGE B73H

NOTE: ALL WIRES SHALL BE FURNISHED OR RELOCATED BY OTHERS

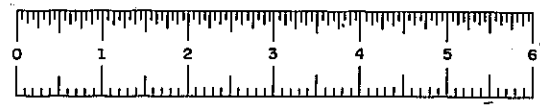
STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF CONSTRUCTION

ARTHUR V. SHERIDAN EXPRESSWAY

ALTERATIONS TO N.Y. STATE HIGHWAY SYSTEM - SECONDARY SUPPORT STRUCTURES

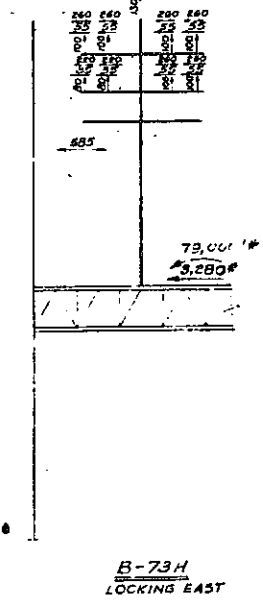
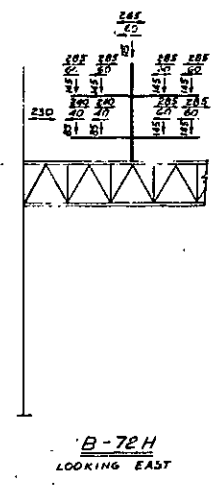
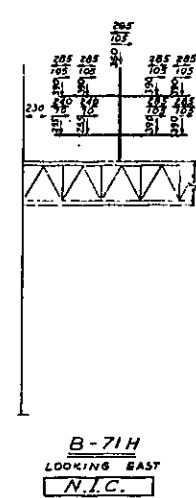
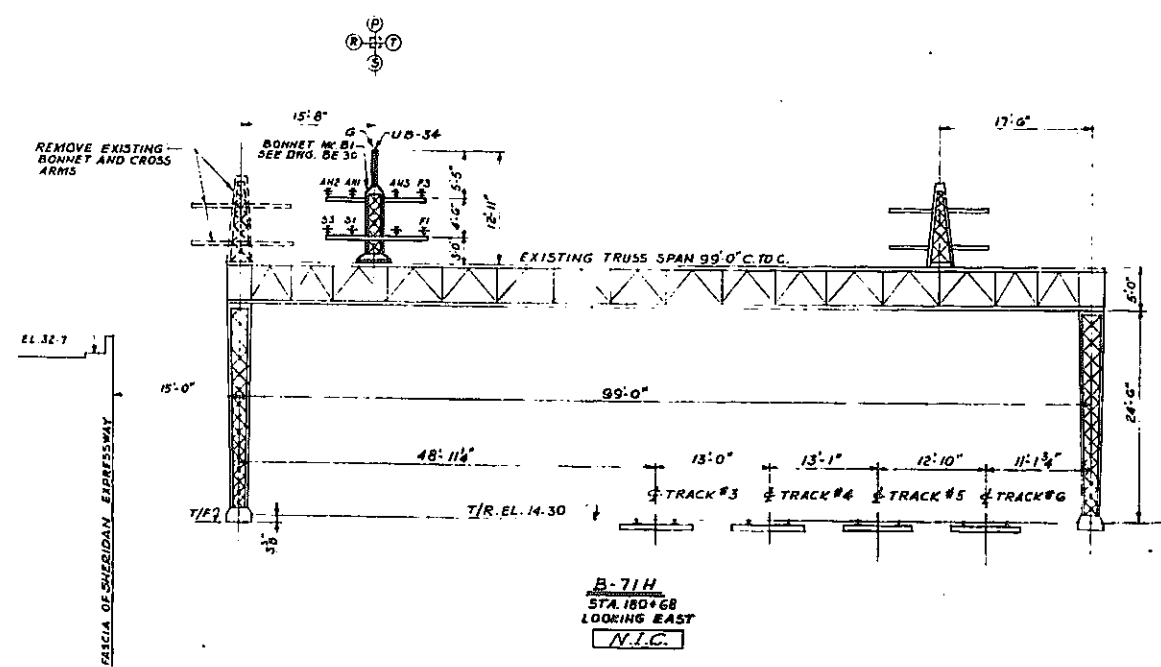
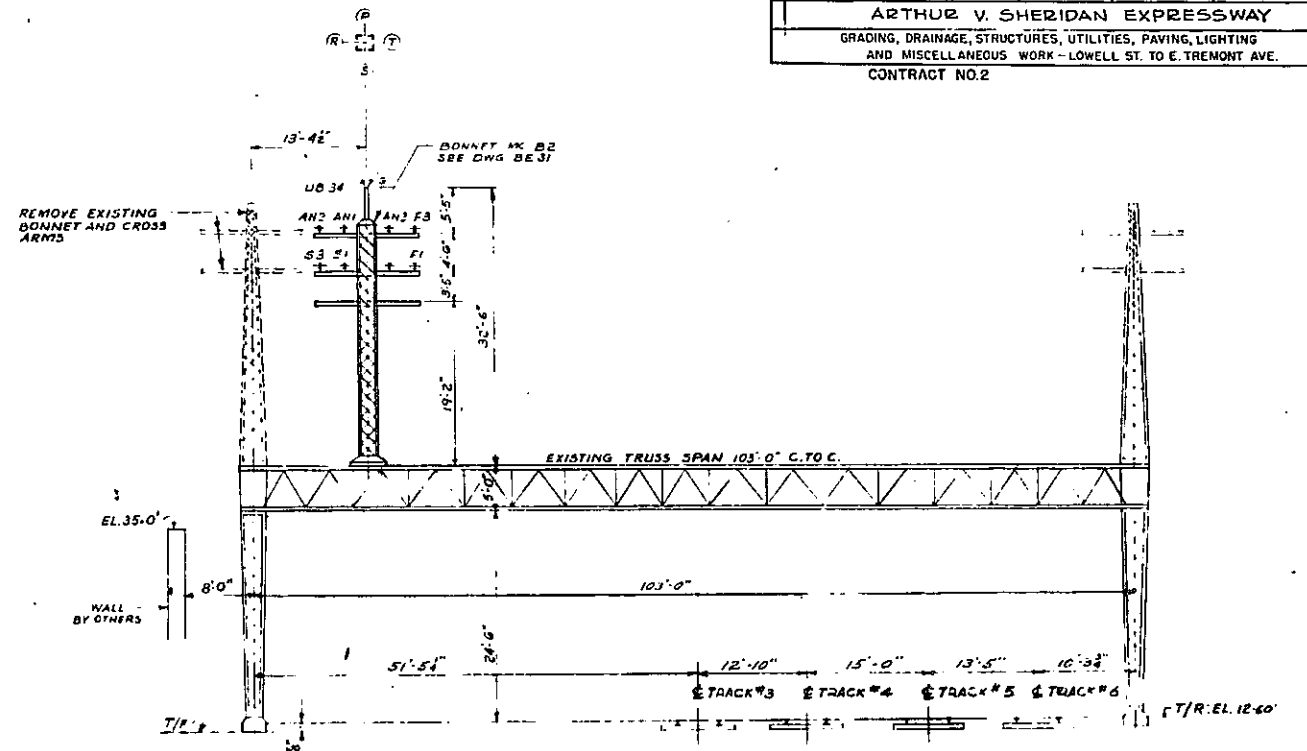
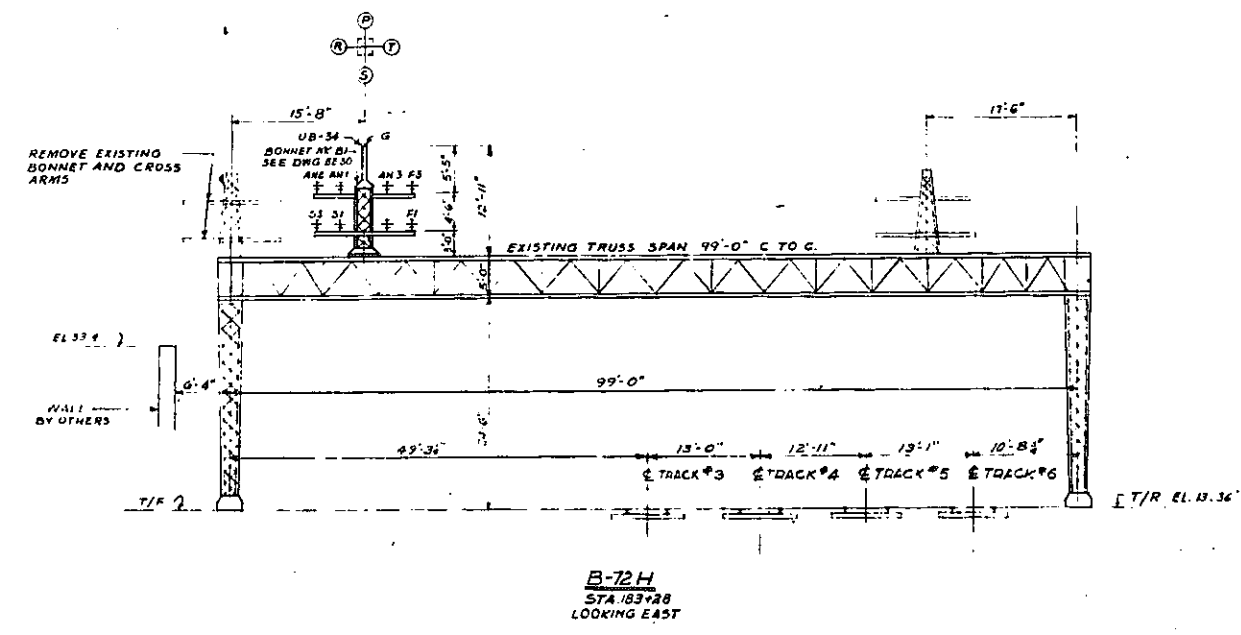
LOCATION PLAN & PROFILE

SCALE: AS SHOWN, DATE: 7-31-57, DWG. NO. BE 28-1



PHASE 60-1

FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.		94	159
ARTHUR V. SHERIDAN EXPRESSWAY				
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.				
CONTRACT NO. 2				



- GENERAL NOTES**
- ALL RIVETS 3/4", ALL HOLES 1/2" UNLESS NOTED.
 - HIGH TENSILE BOLTS SHALL BE USED FOR ALL FIELD CONNECTIONS.
 - OPEN HOLES SHALL BE FILLED FROM BURNS. STEEL SURFACES SHALL NOT BE DRILLED WITHIN 3 INCHES OF THESE HOLES. WELDING SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS FOR HIGH TENSILE BOLTS.
 - MATERIAL FABRICATION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PUBLIC WORKS SPECIFICATIONS OF JAN. 2, 1957 AND CURRENT MODIFICATIONS.
 - ALL FIELD COATS SHALL BE APPLIED AFTER WIRES ARE IN PLACE.
 - COLOR OF FINISH COAT SHALL BE BLACK.
 - THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SPECIAL NOTES.

- NOTE**
- REMOVAL OF EXISTING STEEL SUPERSTRUCTURE TO BE PAID FOR UNDER ITEM 29-2.
 - ALL STEEL SHOWN ON THIS DRAWING IS PAID FOR UNDER ITEM 29-2.

- REFERENCE DRAWINGS**
- FOR REFERENCE DRAWINGS SEE DWG. BE 28-1

CORRECT AS BUILT

NO.	DATE	BY	CHKD.	APP. FOR CONSTRUCTION
1	5-27-57	K.E.		
ISSUED FOR				
GIBBS & HILL, INC. ENGINEERS - CONSTRUCTORS NEW YORK JOB NO. 3018 C				

N.Y. N.H. & H. R.R. Co.

CHIEF ENGINEER
SPT. ELECTRIC TRANSMISSION

STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION		
ARTHUR V. SHERIDAN EXPRESSWAY		
ALTERATIONS TO N.Y.N.H. & H. R.R. CATENARY SUPPORT STRUCTURES		
ERECTION DIAGRAMS B-71H, B-72H, B-73H		
SCALE: 1"=10'-0"	DATE: 7-31-57	DWG. NO. BE 29-1

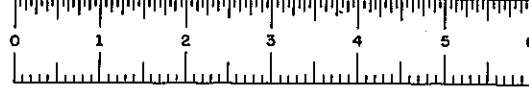
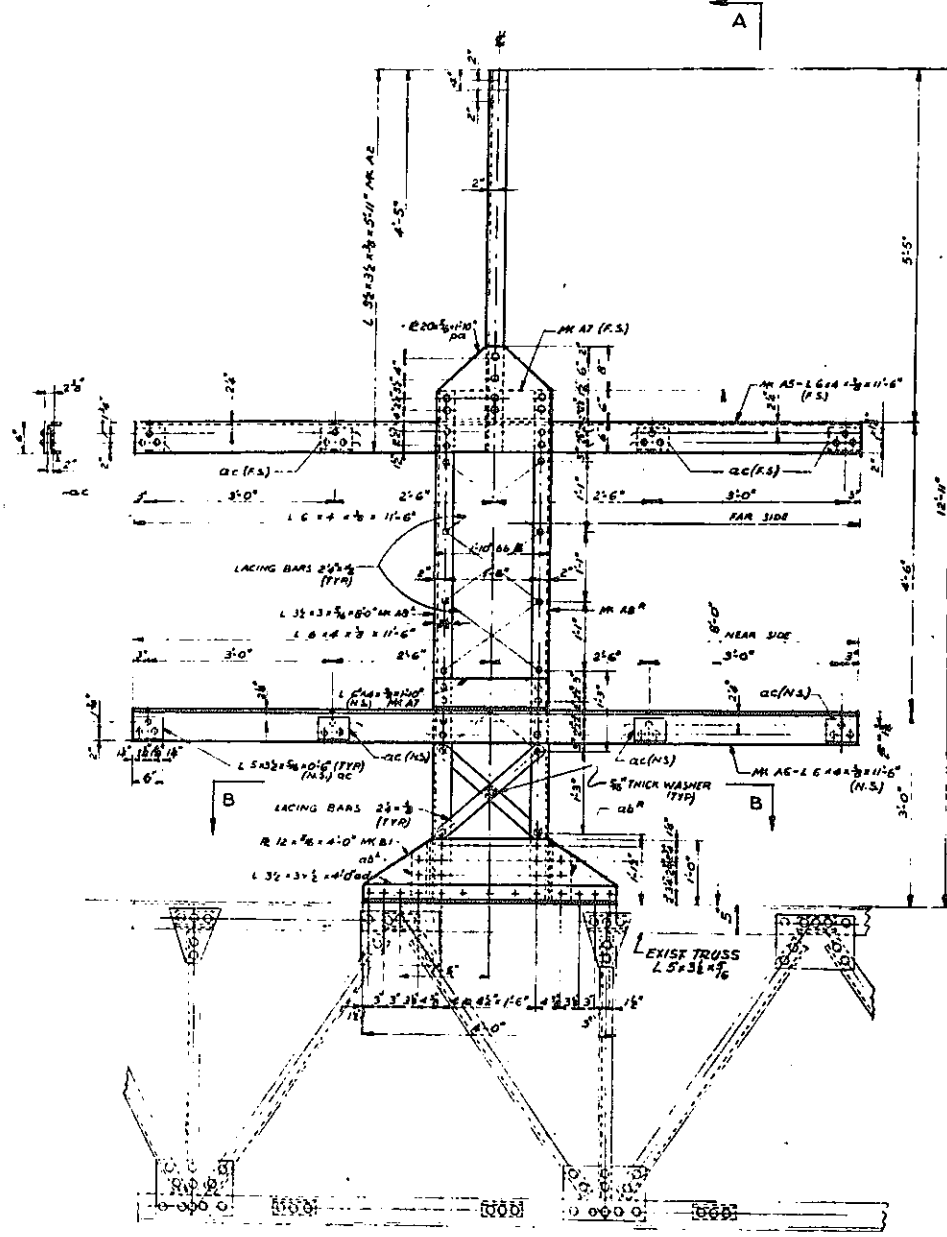
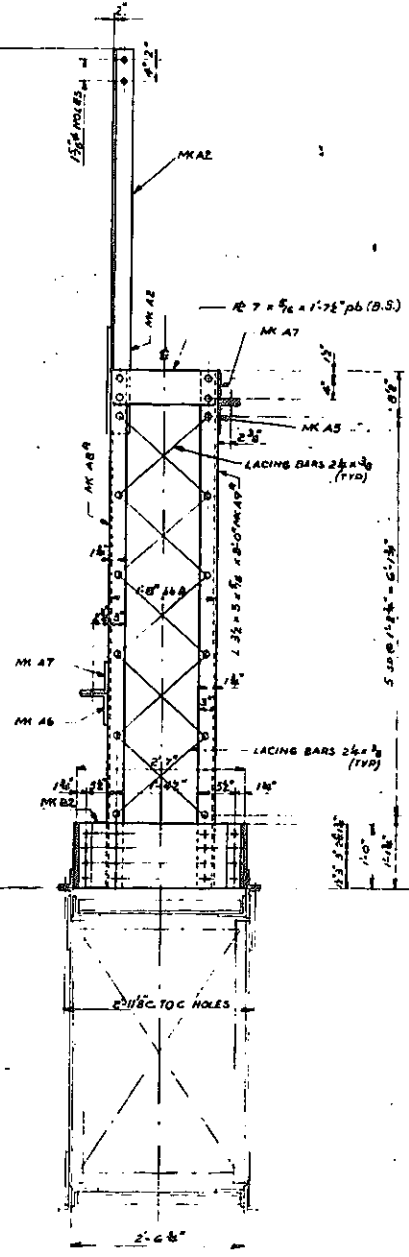


PLATE 60-1

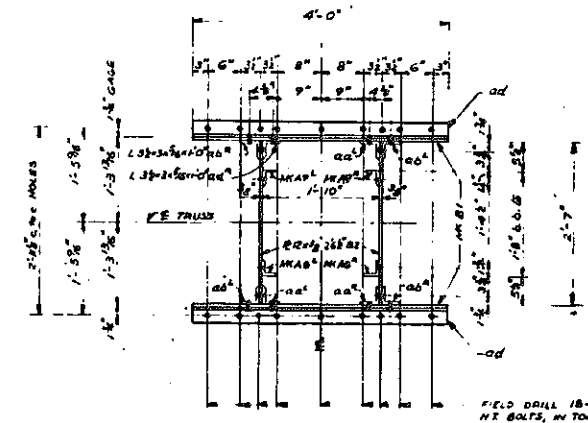
FED. AID. PROJ. NO.	FED. ROAD DIV. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
E-1-278-199	1	N. Y.		95	139
ARTHUR V. SHERIDAN EXPRESSWAY					
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.					
CONTRACT NO. 2					



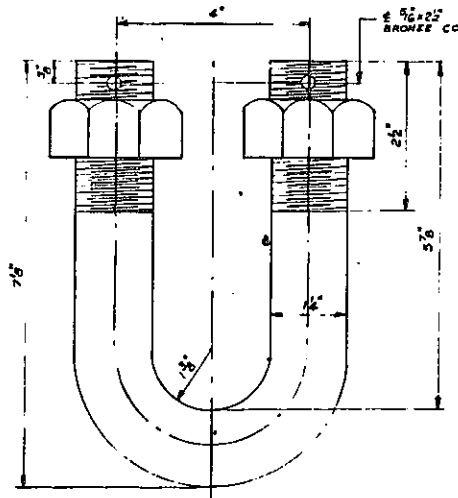
BONNET BI
(2-REQD.)
LOOKING EAST
FOR BRIDGES B-71H & B-72H



SECTION A-A



SECTION B-B



DETAIL OF U-BOLT-MK.UB-34
MATERIAL - FORGED STEEL - HOT DIP GALVANIZED

- NOTE:**
ALL STEEL SHOWN ON THIS DRAWING IS PAID FOR UNDER ITEM 29-Z.
- FOR GENERAL NOTES SEE DWG. BE 29-4
 - FOR ERECTION DIAGRAM SEE DWG. BE 29-1
 - GALVANIZING SHALL CONFORM TO THE LATEST ASTM SPEC. NO. A-123.
 - FORGING SHALL CONFORM TO THE LATEST ASTM SPEC. NO. A-225.

BRIDGE No. 71H Not in Contract

CORRECT AS BUILT

ISSUED FOR	APPROVALS	DATE	DRAWN BY	CHECKED BY
FOR FABRICATION		5-27-57	S.B.	J.E.
GIBBS & HILL, INC. ENGINEERS - CONSTRUCTORS NEW YORK JOB No. 3018 C				

N.Y. N.H. & H. R.R. Co.
 CHIEF ENGINEER
 Supt. Electric Transmission

STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION	
ARTHUR V. SHERIDAN EXPRESSWAY	
ALTERATIONS TO N.Y.N.H. & H.R.R. CATENARY SUPPORT STRUCTURES	
STEEL DETAILS OF BONNET BI - BRIDGES B-71H & B-72H	
SCALE: 3/4" = 1'-0"	DATE: 7-31-57
	DWG. NO. BE 30-1

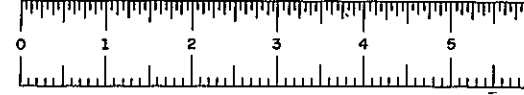
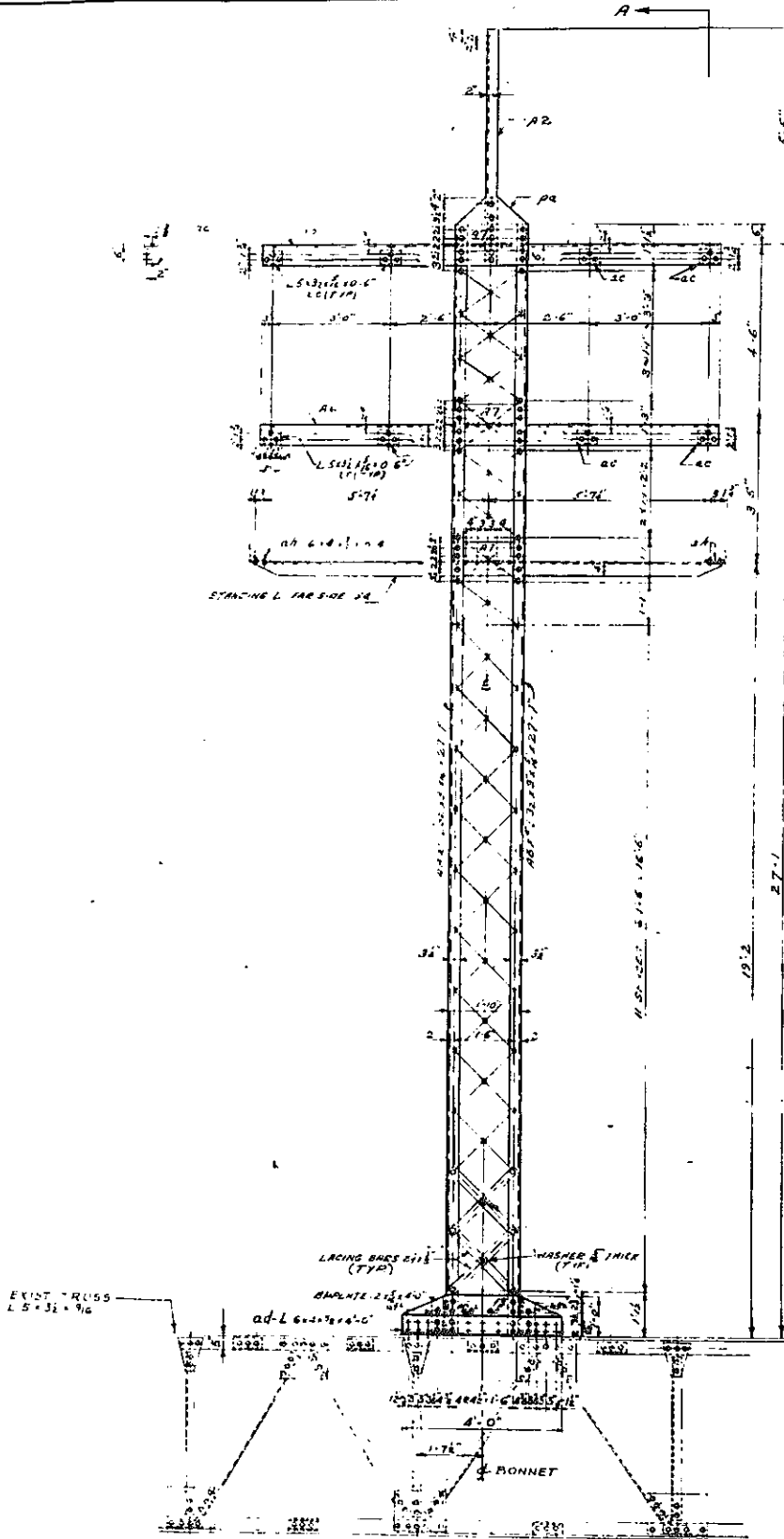
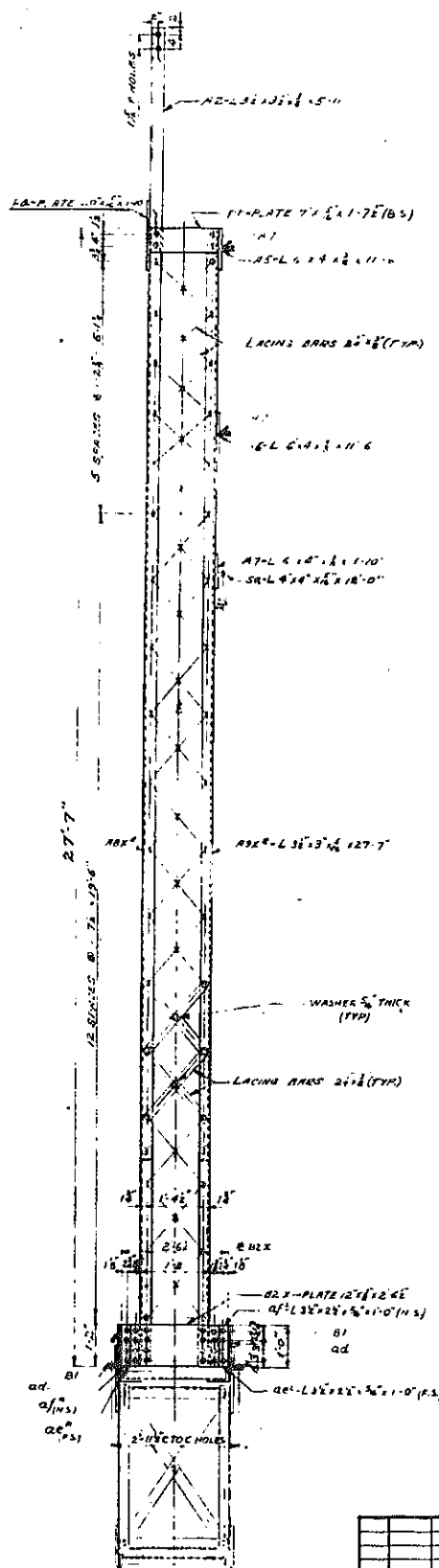


PLATE 60-1

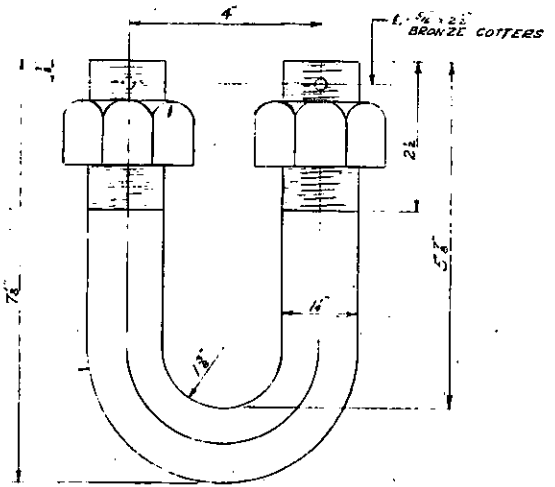
FED. AID PROJ. NO.	FED. ROAD DIV. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
EI-218(45)	1	N.Y.		96	139
ARTHUR V. SHERIDAN EXPRESSWAY					
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.					
CONTRACT NO 2					



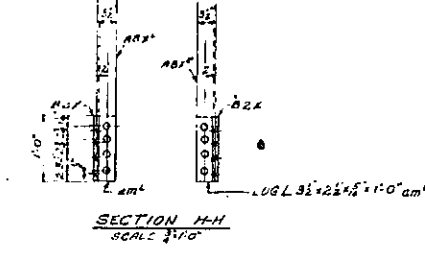
BONNET B2
 - COPIES EAST
 FOR BRIDGE B-73H



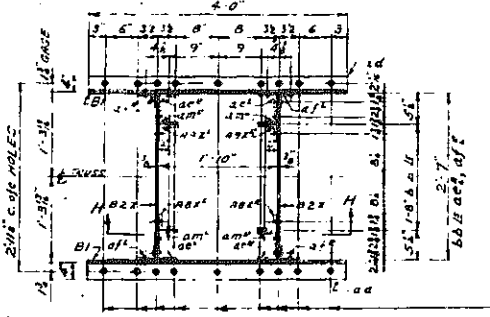
SECTION A-A



DETAIL OF U-BOLT-MK. UB34
 MATERIAL FORGED STEEL HOT DIP GALVANIZED



SECTION H-H
 SCALE 3/4\"/>



BONNET BASE DETAIL
 SCALE 1\"/>

NOTE:
 ALL STEEL SHOWN ON THIS DRAWING IS PAID FOR UNDER ITEM 23-2.
 1. FOR GENERAL NOTES SEE DWG. BE 29H
 2. FOR SECTION DIAGRAMS SEE DWG. BE 29H
 3. GALVANIZING SHALL CONFORM TO THE LATEST ASTM SPEC. NO. A-123.
 4. FORGING SHALL CONFORM TO THE LATEST ASTM SPEC. NO. A-235.

FIELD DRILL 18-24 #40CS, FOR 18 1/2\"/>

CORRECT AS BUILT

STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION
ARTHUR V. SHERIDAN EXPRESSWAY
ALTERATIONS TO N.Y.N.H.&H.R.R. CATENARY SUPPORT STRUCTURES
STEEL DETAILS OF BONNET B2 - BRIDGE B73H
SCALE: 1\"/>

NO.	DATE	DESCRIPTION
1	8-27-51	ISSUED FOR FABRICATION

GIBBS & HILL, INC.
 ENGINEERS - CONSTRUCTORS
 NEW YORK
 JOB NO. 5018 C

N.Y. N.H. & H. R.R. Co.

J.P. Hill
 CHIEF ENGINEER

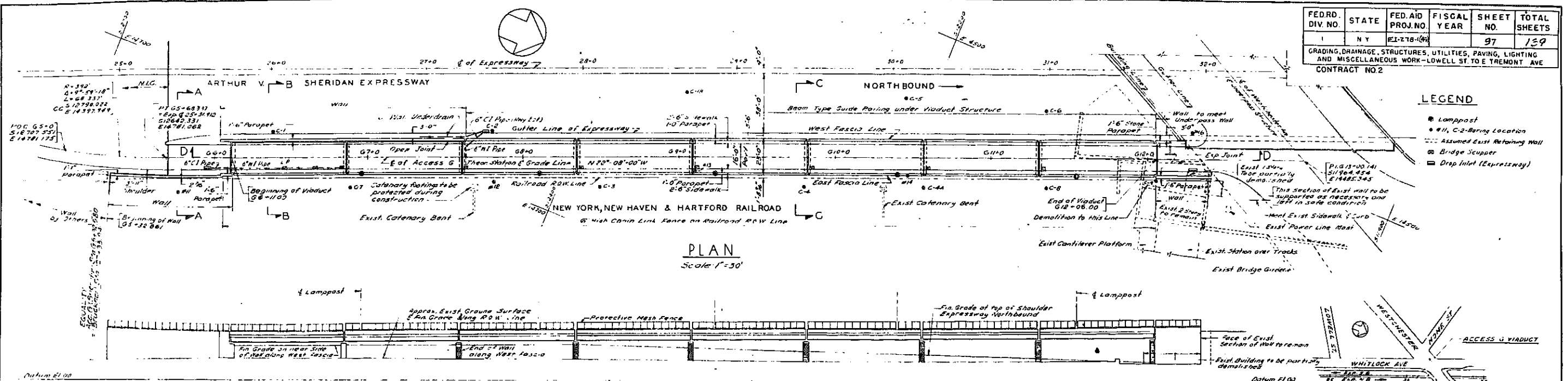
G. Hill
 Supt. Electric Transmission



FIASE 60-1

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	FI-278-64		97	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE
CONTRACT NO. 2

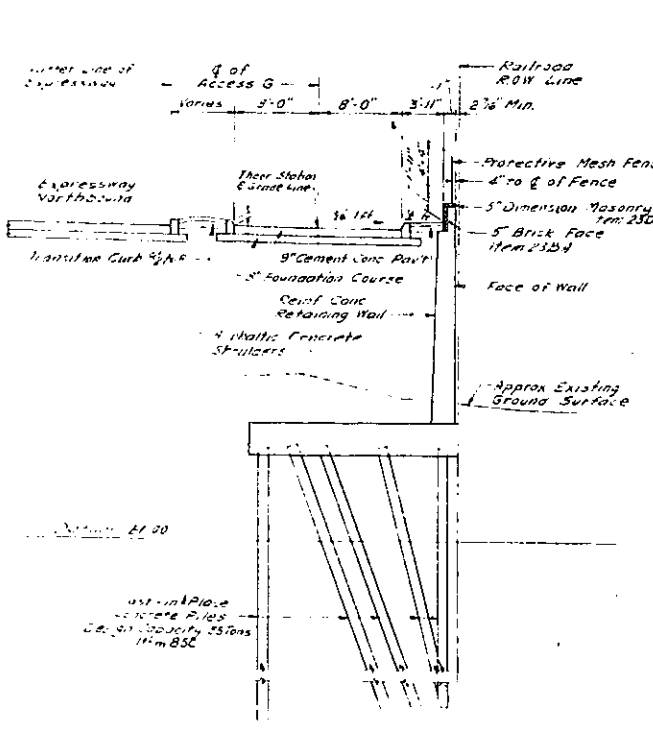
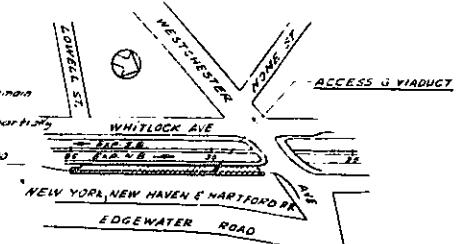


- LEGEND**
- Lamp Post
 - #11, C-2 Baring Location
 - Assumed Exist Retaining Wall
 - ⊠ Bridge Scupper
 - ⊠ Drop Inlet (Expressway)

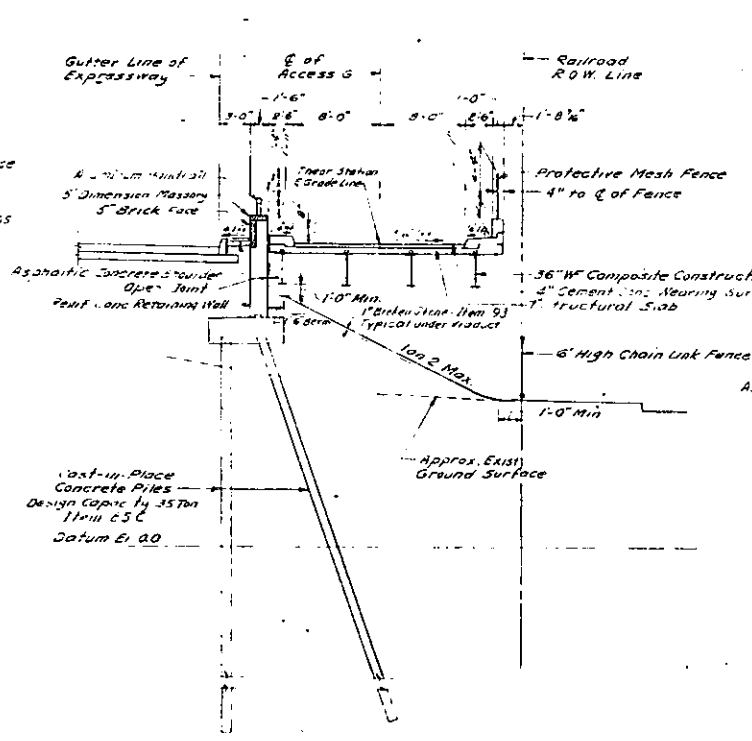
EAST ELEVATION Scale 1"=30'

Note: Chain Link Fence on R.O.W. Line not shown.

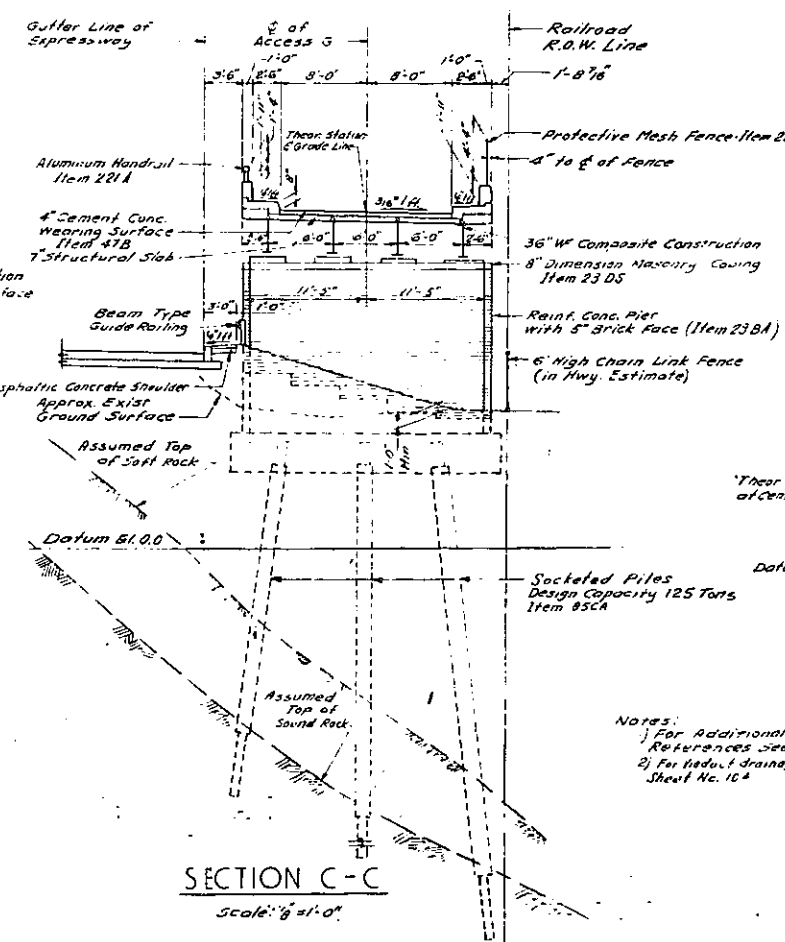
GENERAL PLAN Scale 1"=330'



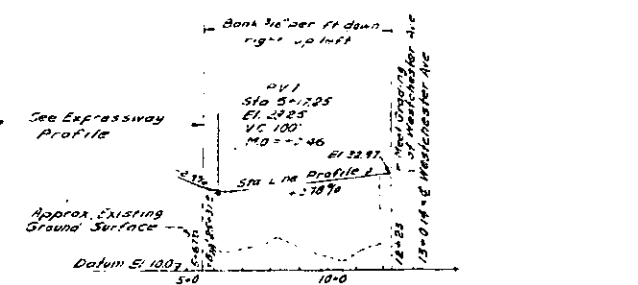
SECTION A-A Scale: 3/4"=1'-0"



SECTION B-B Scale: 3/4"=1'-0"

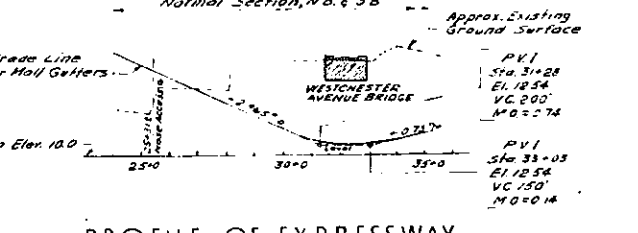


SECTION C-C Scale: 3/4"=1'-0"



PROFILE OF ACCESS G

Scale: Vert 1"=20'
Hor 1"=300'
Note: Profile raised 0.06' to compensate for Camber Tolerances
Normal Section, N.B. & S.B.



PROFILE OF EXPRESSWAY

Scale: Vert 1"=20'
Hor 1"=300'
CORRECT AS BUILT

In Charge Of: J. O'Brien
Made By: J. O'Brien
Traced By: S. T.
Checked By: J. J.

ARTHUR V. SHERIDAN EXPRESSWAY		
ACCESS G VIADUCT LAYOUT		
SCALE As Shown	DATE Dec 2, 1957	SHEET NO. 97
CLARKE & RAPUANO NEW YORK		ENGINEERS

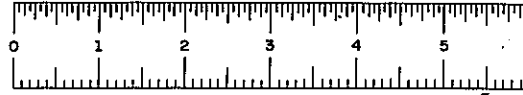


PLATE 60-1

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	EI-278(65)		98	129

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO TREMONT AVE.
CONTRACT NO. 2

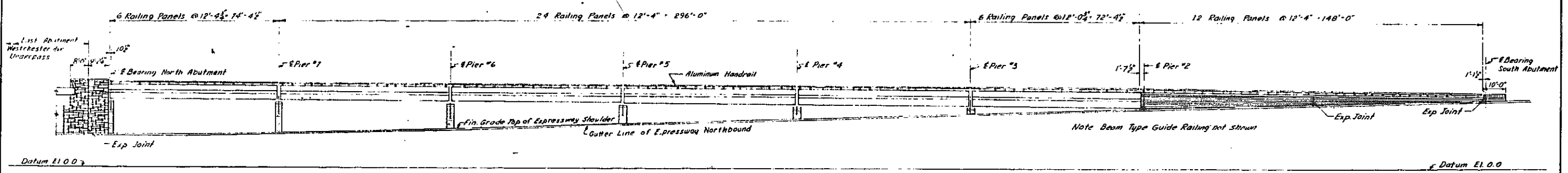
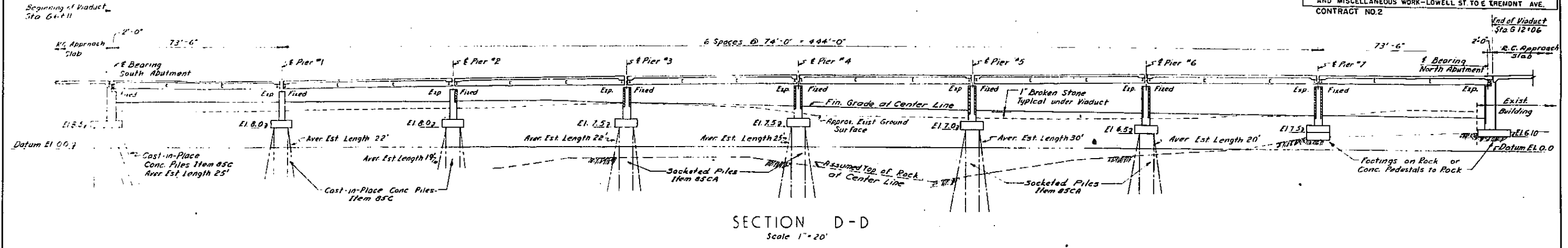
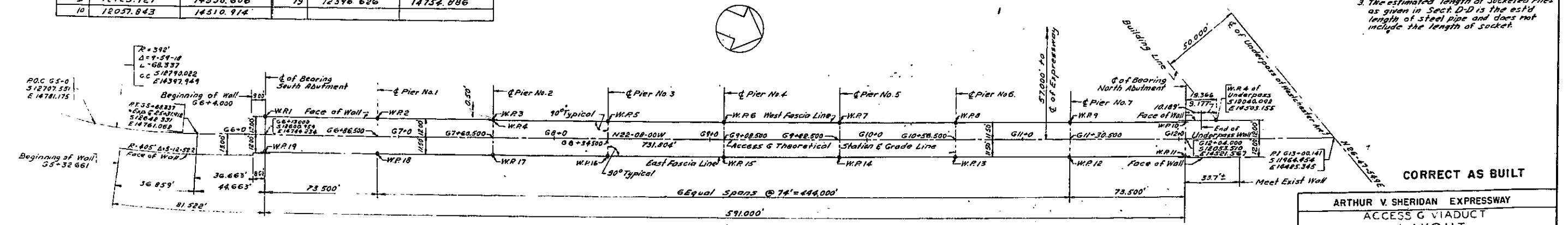


TABLE OF WORKING POINT COORDINATES

	SOUTH	EAST		SOUTH	EAST
WP 1	12605.480	14733.118	WP 11	12049.177	14532.219
2	12537.396	14705.486	12	12117.261	14559.911
3	12468.849	14677.546	13	12185.808	14587.792
4	12468.661	14678.009	14	12234.354	14615.672
5	12400.114	14650.122	15	12322.901	14643.553
6	12331.567	14622.248	16	12391.448	14671.433
7	12263.020	14594.367	17	12459.995	14699.314
8	12194.474	14566.487	18	12528.542	14727.194
9	12125.927	14538.606	19	12596.626	14754.886
10	12057.843	14510.914			

NOTES:
 1. For additional notes and references see Sheet No. 107.
 2. For location of Section D-D see sheet No. 97.
 3. The estimated length of socketed piles as given in Sect. D-D is the est'd length of steel pipe and does not include the length of socket.



In Charge Of D. O'Brien
 Made By D.C.M. & S.L.
 Traced By S.T. & L.C.
 Checked By R.J.H.

ALIGNMENT & WORKING POINT DIAGRAM
Scale: 1" = 30'

**ARTHUR V. SHERIDAN EXPRESSWAY
ACCESS G VIADUCT
LAYOUT**

ALIGNMENT & WORKING POINTS

SCALE As Shown	DATE Dec 8, 1957	SHEET NO. 98
CLARKE & RAPUANO NEW YORK		ENGINEERS

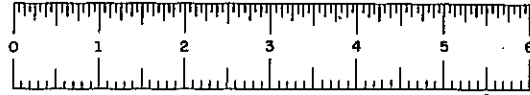
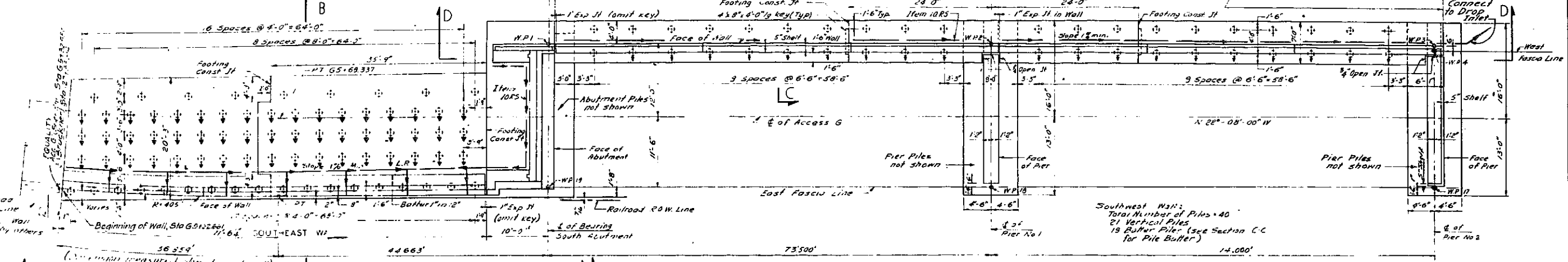


PLATE 60-1

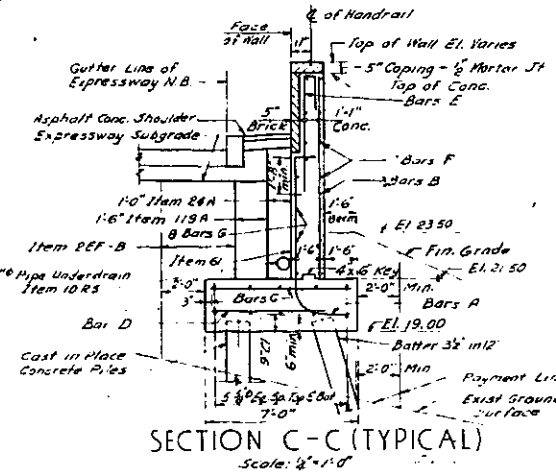
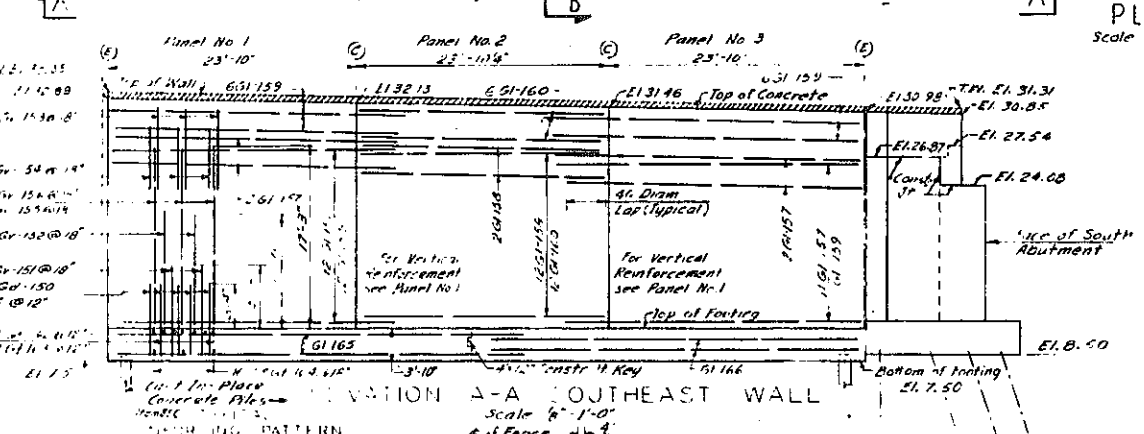
FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	E-278-169		99	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E TREMONT AVE.
CONTRACT NO. 2

Southeast Wall:
Total Number of Piles = 78
Average Estimated Length = 25'
27 Vertical Piles
51 Batter Piles (see Section A-A for Pile Pattern)

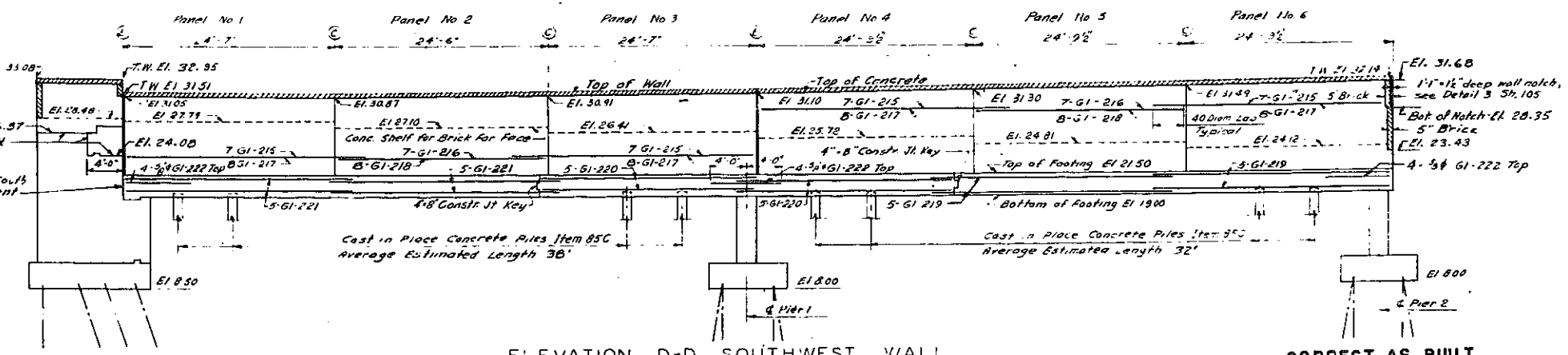
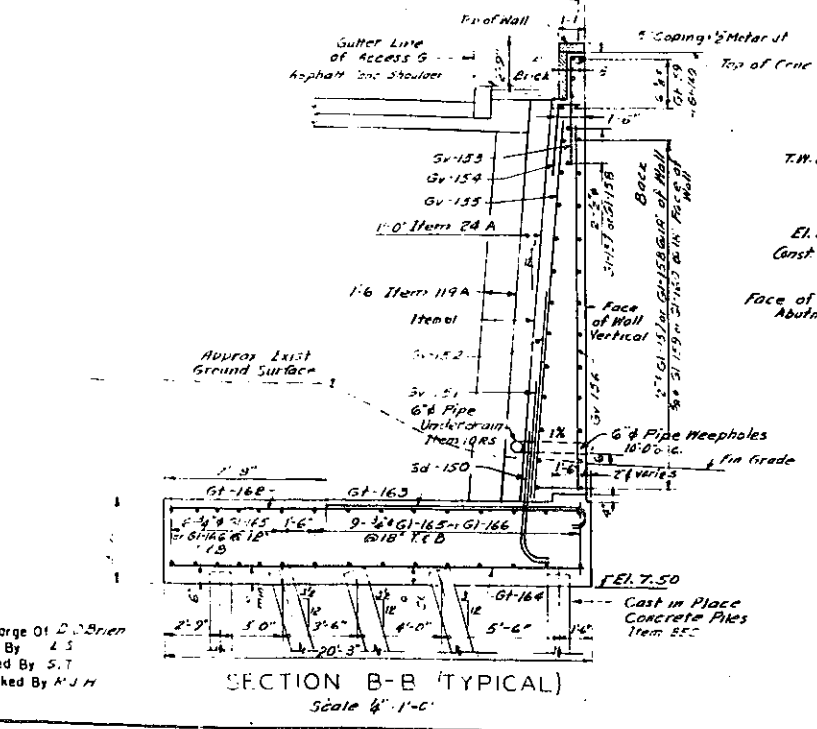


Southwest Wall:
Total Number of Piles = 40
21 Vertical Piles
19 Batter Piles (see Section C-C for Pile Pattern)



Bars	Panel 1	Panel 2	Panel 3	Panel 4	Panel 5	Panel 6
A	3/4" Gd-200 @ 12"	3/4" Gd-201 @ 12"	3/4" Gd-202 @ 12"	3/4" Gd-203 @ 12"	3/4" Gd-204 @ 12"	3/4" Gd-205 @ 12"
B	1/2" Gv-206 @ 12"	1/2" Gv-208 @ 12"	1/2" Gv-206 @ 12"	1/2" Gv-206 @ 12"	1/2" Gv-206 @ 12"	1/2" Gv-206 @ 12"
C	1/2" Gt-207 @ 12"	1/2" Gt-207 @ 12"	1/2" Gt-207 @ 12"	1/2" Gt-207 @ 12"	1/2" Gt-207 @ 12"	1/2" Gt-207 @ 12"
D	1/2" Gt-208 @ 12"	1/2" Gt-208 @ 12"	1/2" Gt-208 @ 12"	1/2" Gt-208 @ 12"	1/2" Gt-208 @ 12"	1/2" Gt-208 @ 12"
E	1/2" Gv-209 @ 12"	1/2" Gv-210 @ 12"	1/2" Gv-211 @ 12"	1/2" Gv-212 @ 12"	1/2" Gv-213 @ 12"	1/2" Gv-214 @ 12"
F	1/2" Gt-215 @ 18"	1/2" Gt-216 @ 18"	1/2" Gt-215 @ 18"	1/2" Gt-215 @ 18"	1/2" Gt-215 @ 18"	1/2" Gt-215 @ 18"
G	1/2" Gt-217 @ 18"	1/2" Gt-218 @ 18"	1/2" Gt-217 @ 18"	1/2" Gt-217 @ 18"	1/2" Gt-218 @ 18"	1/2" Gt-217 @ 18"

NOTES: 1. Each Wall Panel to have 2" cover of Vertical Bars A,B,E and of Transverse Bars C,D.
2. For Placement of Longitudinal Bars F,G and for Bar Markings placing of Facing Longitudinal Bars see ELEVATION D-D.



CORRECT AS BUILT

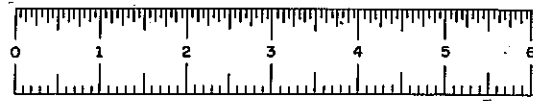
ARTHUR V. SHERIDAN EXPRESSWAY
ACCESS G VIADUCT
SOUTH END
LAYOUT AND WALLS

SCALE As Shown	DATE Dec 2, 1957	SHEET NO. 99
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CLARKE & RAPUANO
NEW YORK ENGINEERS

Notes:
1 For additional Notes, References & Legend see Sheet No. 107
2 For Details of Wall Stem Joints see Sheet No. 104

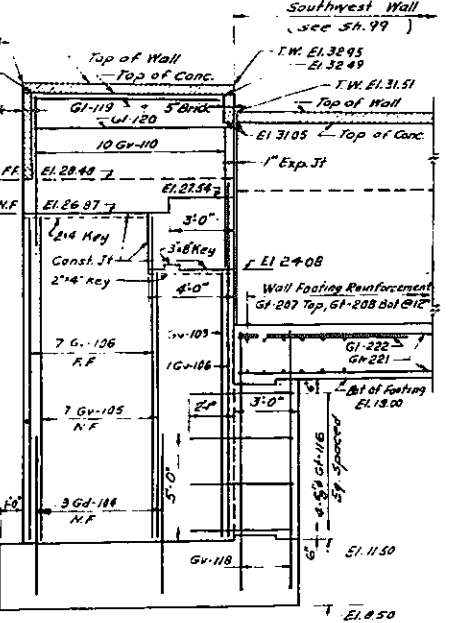
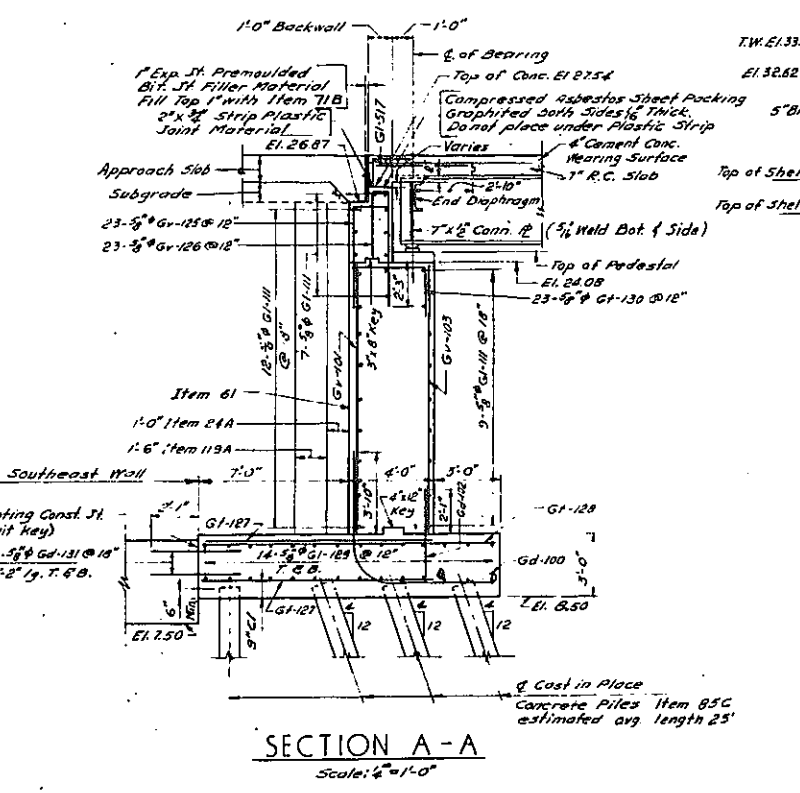
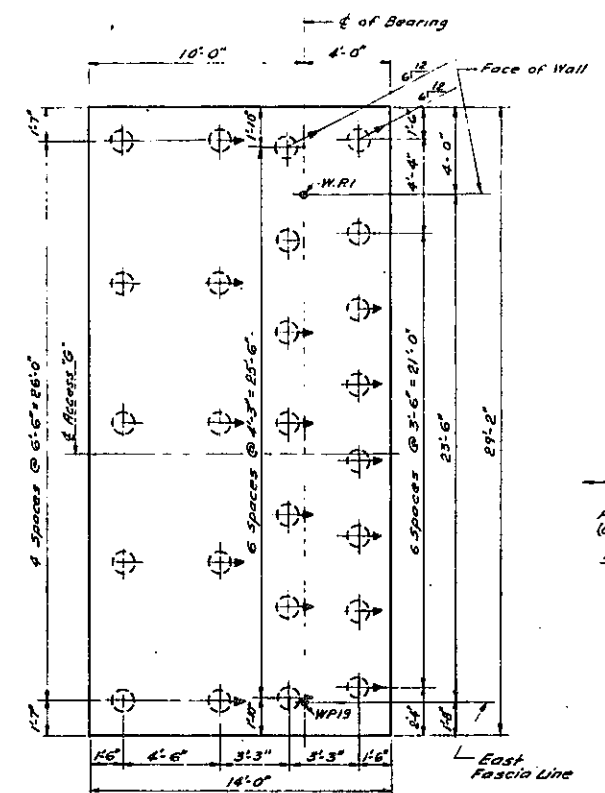
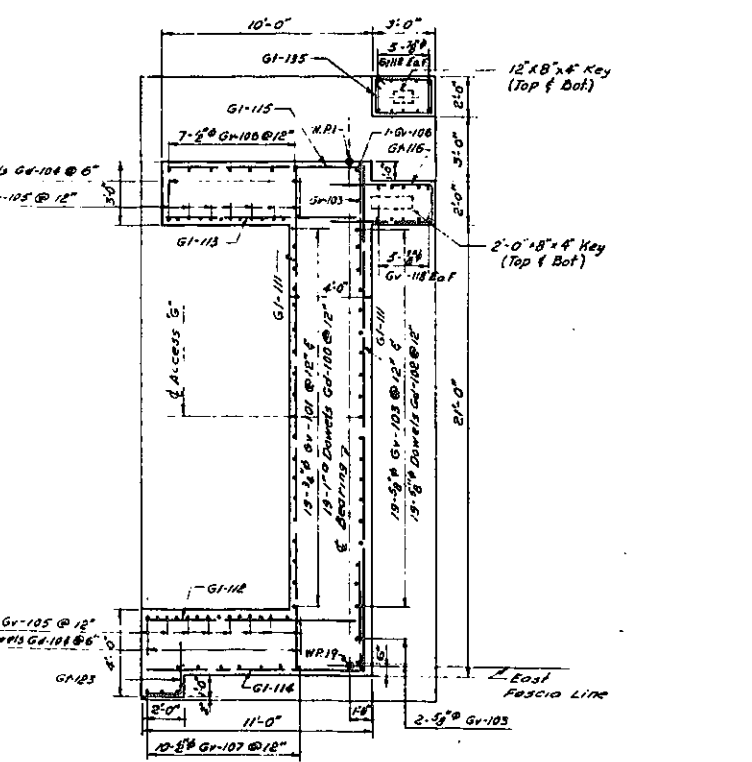
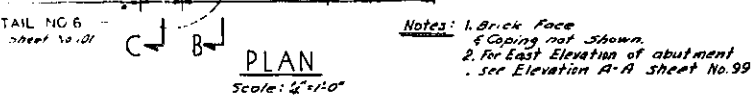
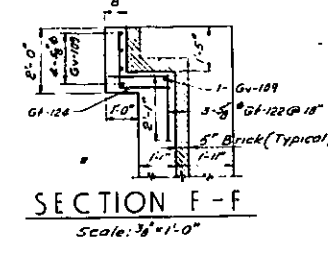
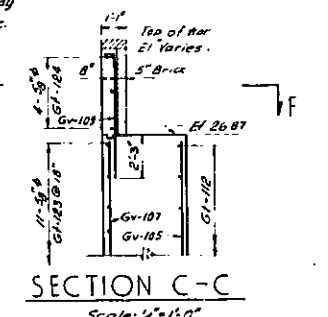
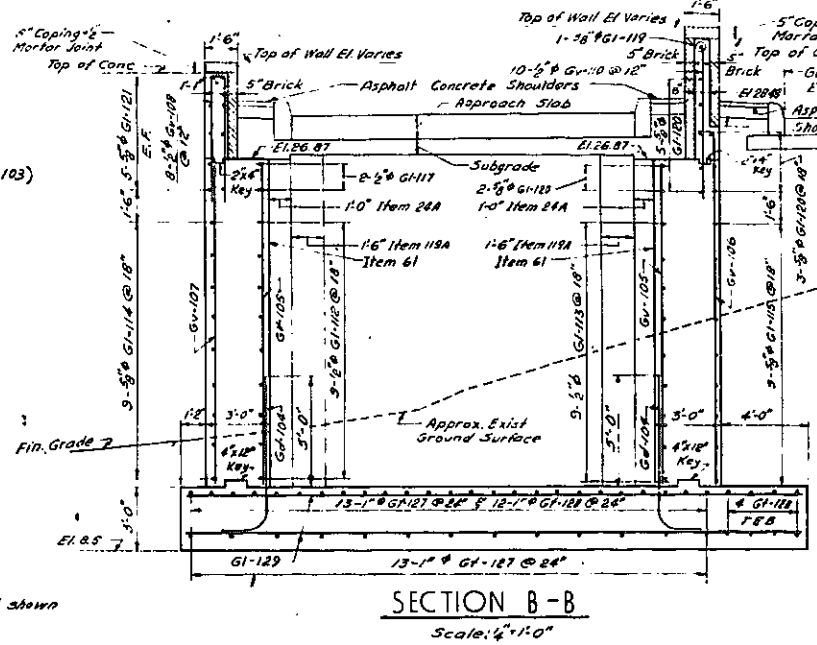
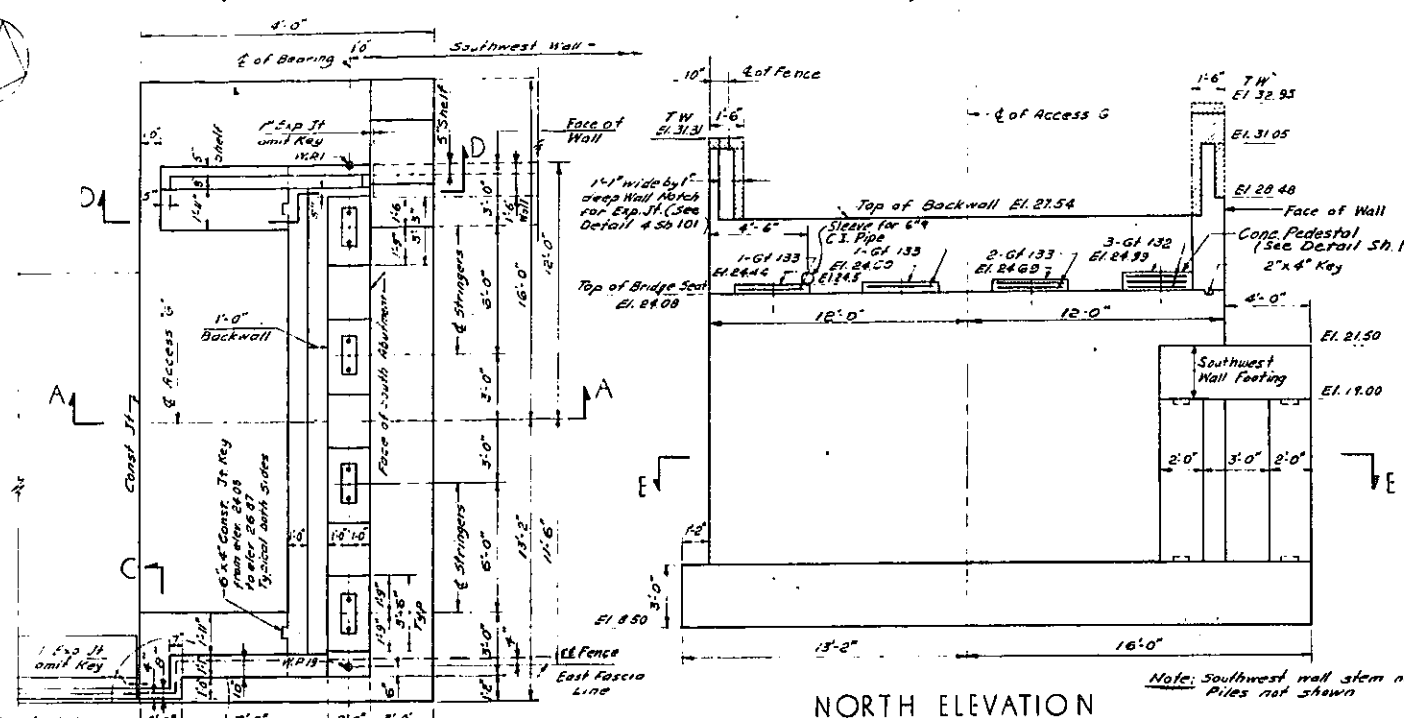
In Charge Of: J. J. Brien
Made By: J. S.
Traced By: S. T.
Checked By: A. J. H.



PIASE 60-1

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	EL-278-1(65)		100	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST TO E TREMONT AVE
CONTRACT NO. 2



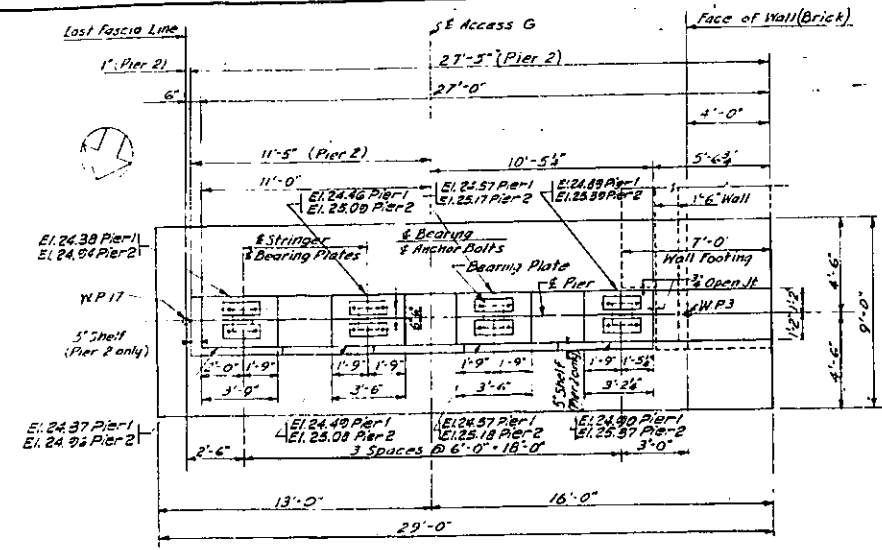
In Charge Of D. O'Brien
Made By L.S.
Traced By S.T.
Checked By R.J.H.

- Notes:
1. For Additional Notes and References see Sheet No. 107.
 2. For Approach Slab Details see, Sheet No. 7
 3. For Viaduct Slab reinforcing & Details see Sheet No. 105

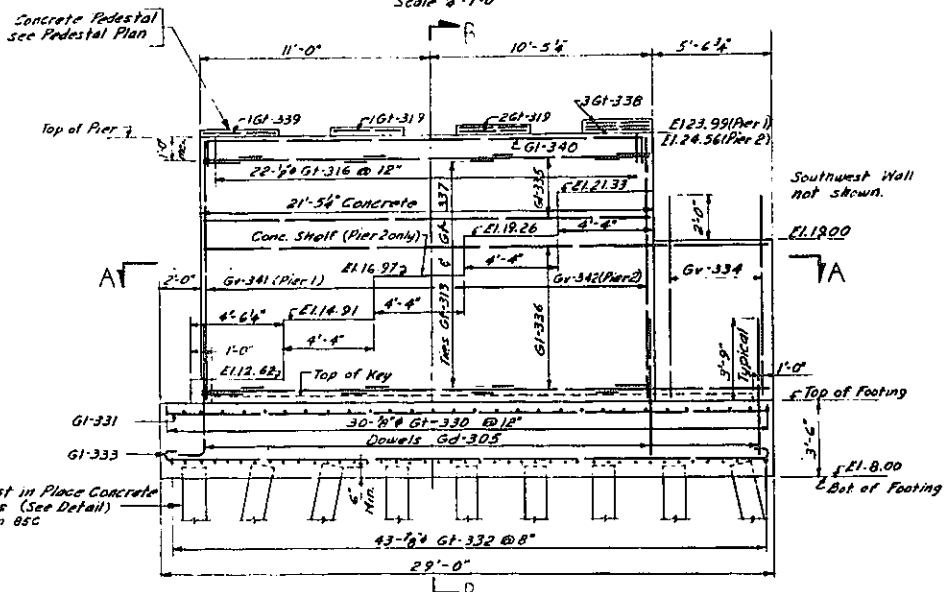
ARTHUR V. SHERIDAN EXPRESSWAY ACCESS G VIADUCT SOUTH ABUTMENT		
SCALE As Shown	DATE Dec. 2, 1957	SHEET NO. 100
CLARKE & RAPUANO NEW YORK		ENGINEERS

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	E-1218(1957)		101	139

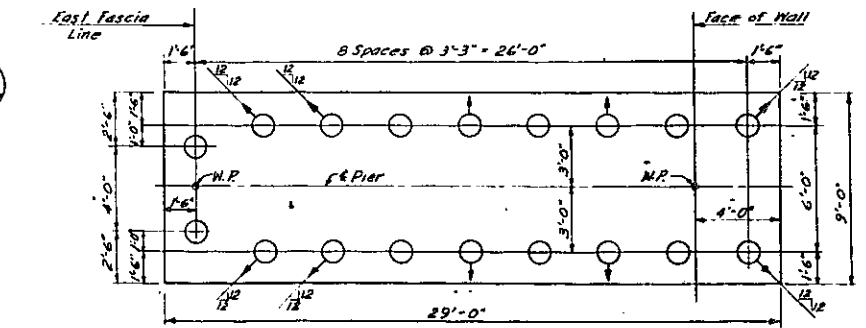
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST TO E. TREMONT AVE
CONTRACT NO 2



PLAN - PIER 2
PIER 1 SIMILAR
Scale 1/4"=1'-0"

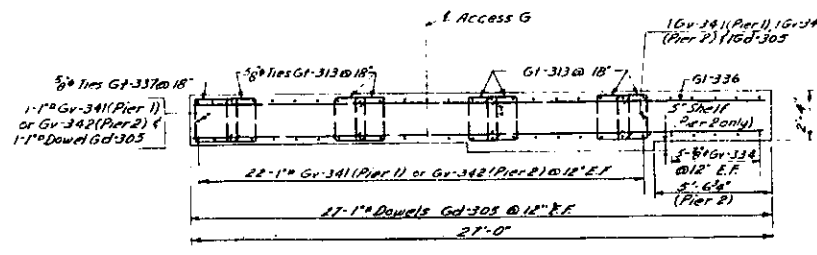


ELEVATION - PIER 2
PIER 1 SIMILAR
Scale 1/4"=1'-0"

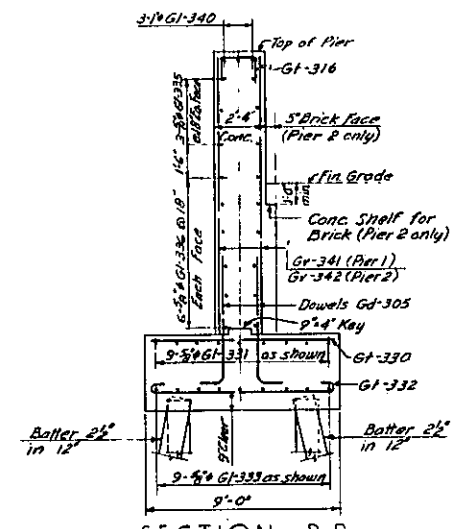


FOOTING PLAN
Scale 1/4"=1'-0"

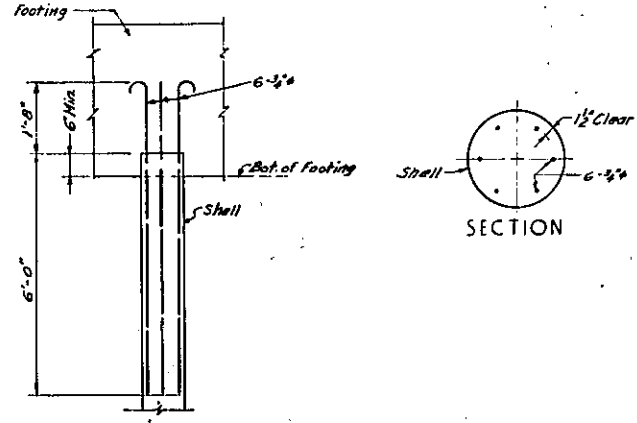
Total Each Footing:
8 Vertical Piles
10 Piles Battered 2 1/2" in 12" oriented as shown.



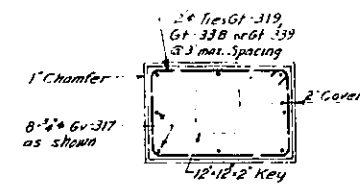
SECTION A-A
Scale 1/2"=1'-0"



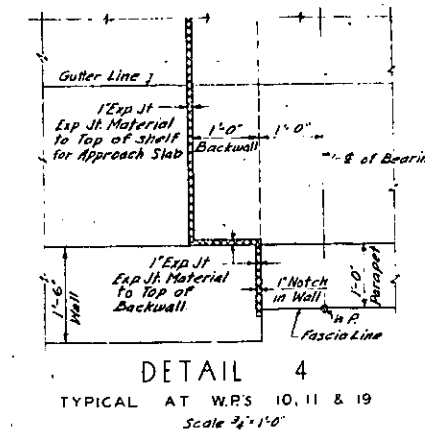
SECTION B-B
Scale 1/4"=1'-0"



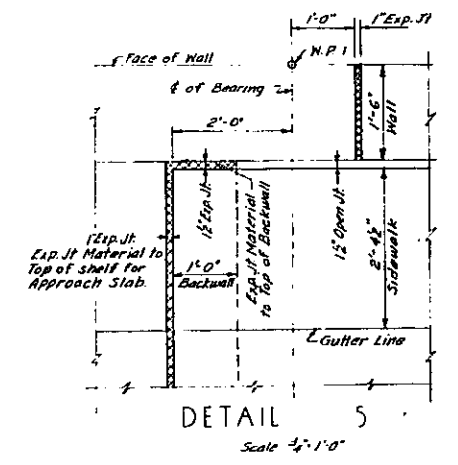
CAST IN PLACE
CONCRETE PILE REINFORCEMENT
Not to Scale



PEDESTAL PLAN
Scale 1/2"=1'-0"

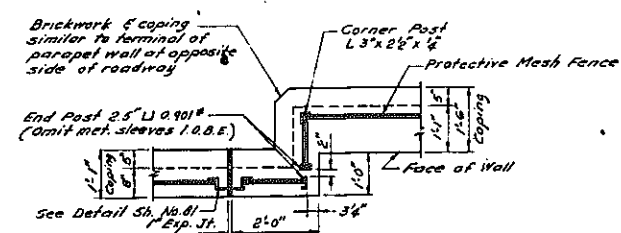


DETAIL 4
TYPICAL AT W.R.S 10, 11 & 19
Scale 1/2"=1'-0"



DETAIL 5
Scale 1/2"=1'-0"

Note: Exp. Jt. Material shall consist of Premoulded Bituminous Joint Material except that the top 1" of joint shall be filled with Item 71B.



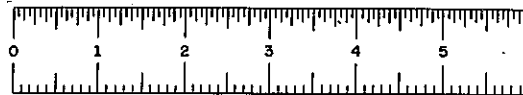
DETAIL 6
RAILING PLAN
Scale 1/2"=1'-0"

Notes:
1. For Additional Notes and References see Sheet No. 107
2. For Brick & Dimension Masonry Details see Sheet No. 102.
3. For Location of Details 4 & 5 see Sheet No. 105
4. For Location of Detail 6 see Sheet No. 100

In Charge Of D. O'Brien
Made By L.S.
Traced By L.C. & S.T.
Checked By R.W.H.

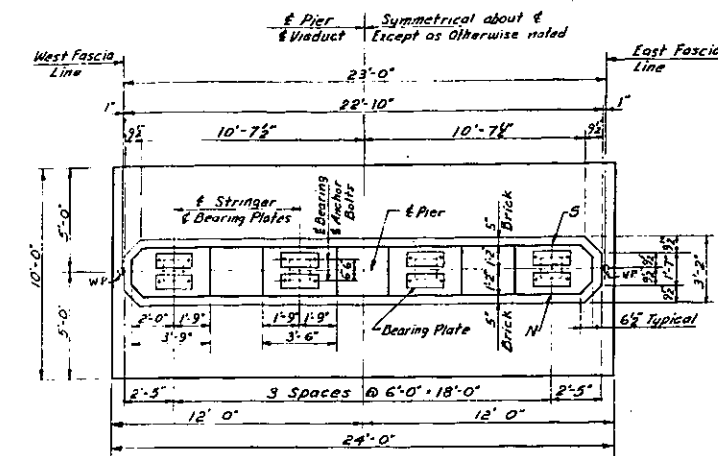
CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY		
ACCESS G VIADUCT		
PIERS 1 & 2		
SCALE As Shown	DATE Dec. 2, 1957	SHEET NO. 101
CLARKE & RAPUANO NEW YORK		ENGINEERS

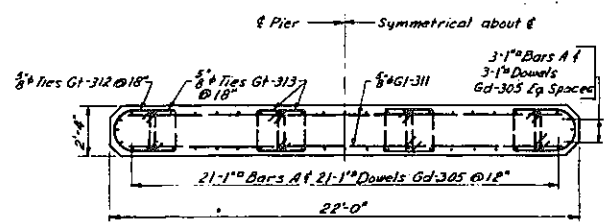


FEDRD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	ET-278-1(4)		102	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

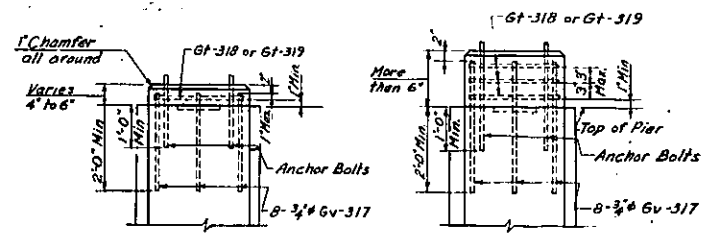
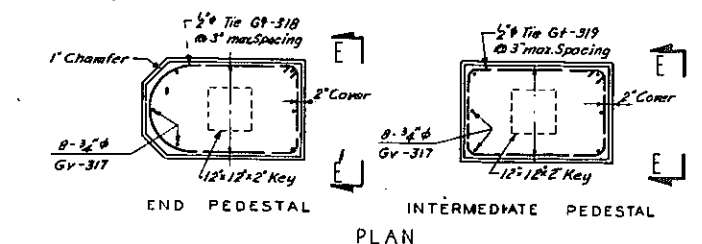


PLAN - PIERS 3, 4, 5, 6 & 7
Scale 1/4"=1'-0"



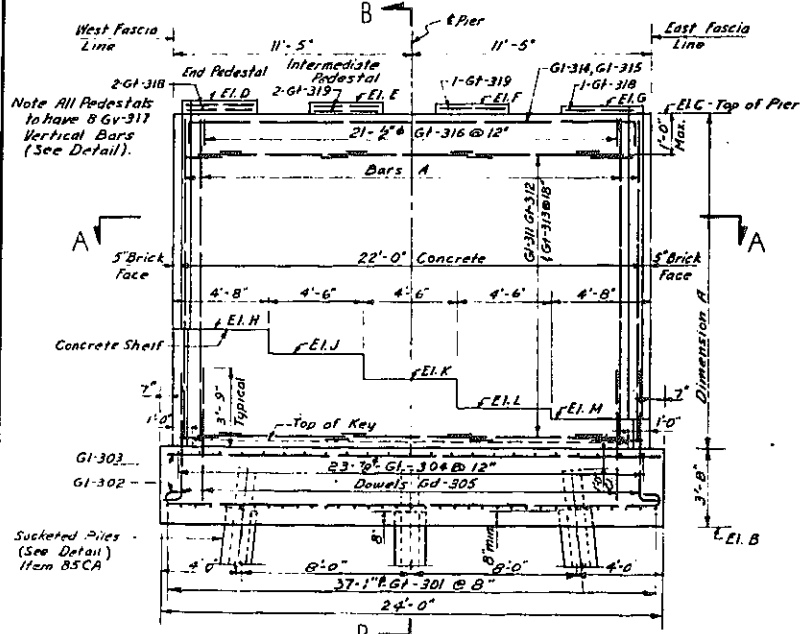
Notes:
1. For Bar Marks & Bar Lengths of Bars A see Pier Schedule.
2. For Number of Ties (Gt-312, Gt-313) & Bars Gt-311 see Pier Schedule.

SECTION A-A

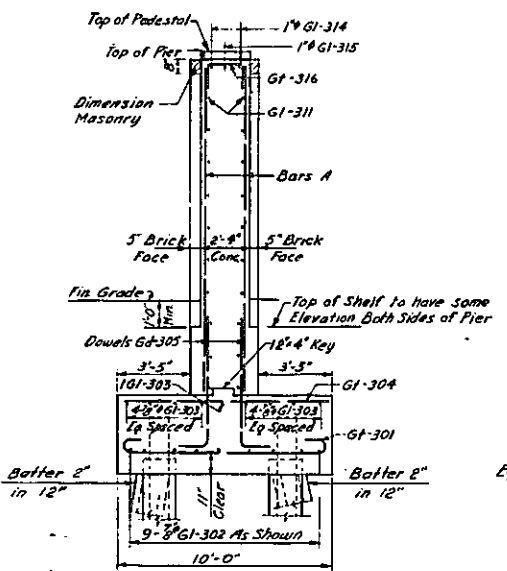


ELEVATION E-E
PEDESTAL DETAILS
Not To Scale

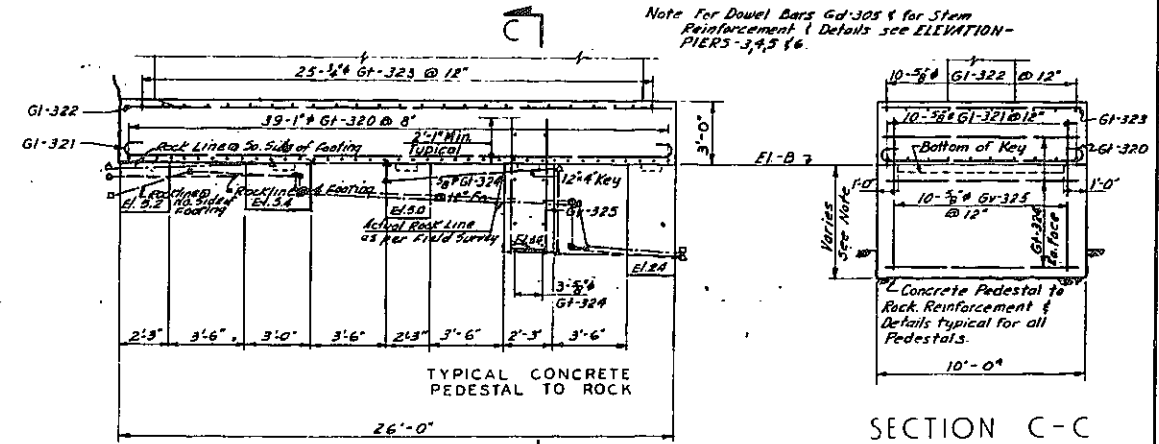
PIER SCHEDULE					
PIER NO.	3	4	5	6	7
Dimension A	13.97	14.55	15.62	16.70	16.95
Elevation B	7.50	7.50	7.00	6.50	7.50
" C	25.14	25.72	26.29	26.87	27.45
" D	25.79	26.34	26.89	27.45	28.00
" E	25.72	26.30	26.87	27.44	28.00
" F	25.53	26.21	26.80	27.37	27.94
" G	25.53	26.20	26.80	27.37	27.94
" H	20.08	18.13	16.19	14.93	13.22
" J	18.02	16.76	15.04	14.25	13.22
" K	16.41	15.38	13.67	13.33	13.22
" L	14.81	14.01	12.52	12.91	12.76
" M	12.98	12.40	11.84	11.50	12.76
Vertical Stem Bars A Length	13'-9"	14'-4"	15'-5"	16'-6"	18'-0"
Number of Bar Gt-311	20	20	22	24	24
" * Ties Gt-312	20	20	22	24	24
" * Ties Gt-313	60	60	66	72	72



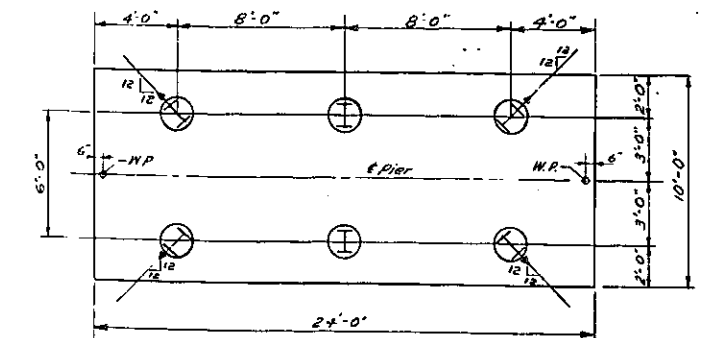
ELEVATION PIERS 3, 4, 5 & 6
Scale 1/4"=1'-0"



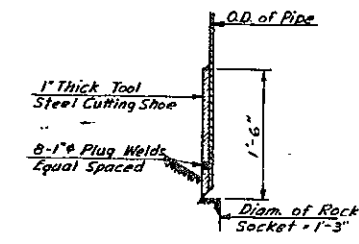
SECTION B-B
Scale 1/4"=1'-0"



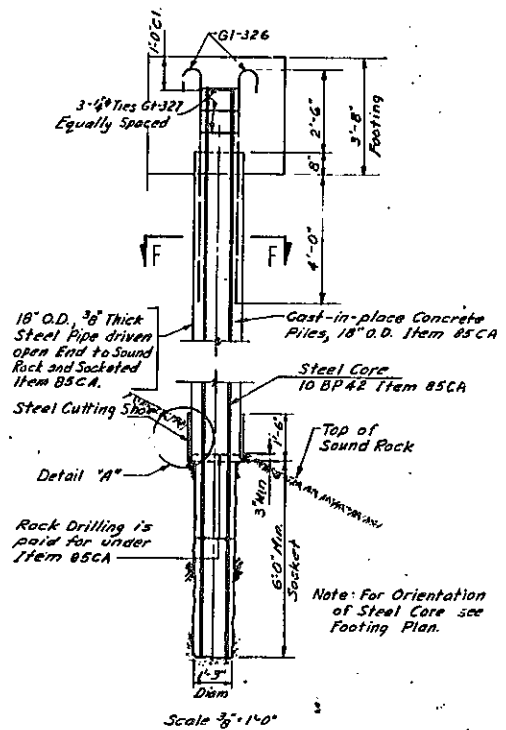
ELEVATION - PIER 7
Scale 1/4"=1'-0"



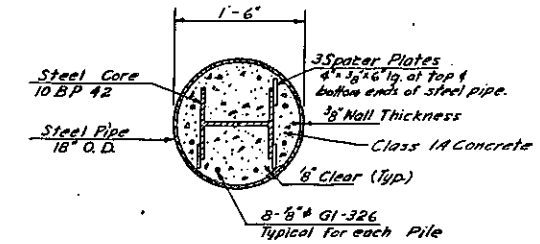
FOOTING PLAN - PIERS 3, 4, 5 & 6
Scale 1/4"=1'-0"



DETAIL "A"
Scale 1'-1'-0"



DETAILS OF TYPICAL SOCKETED PILE (Item B5CA)
Scale 3/8"=1'-0"



SECTION F-F
Scale 1/2"=1'-0"

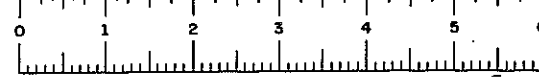
Notes:
1) For Additional Notes and References see Sheet No. 107
2) For Brick and Dimension Masonry Details see Sheet No. 61

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY ACCESS G VIADUCT PIERS 3, 4, 5, 6 & 7		
SCALE AS SHOWN	DATE Dec. 2, 1957	SHEET NO. 102 ENGINEERS CLARKE & RAPUANO NEW YORK

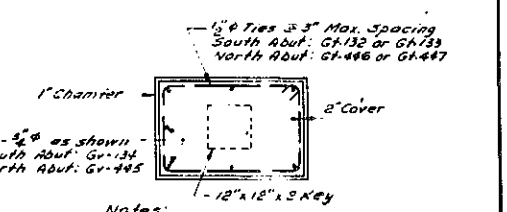
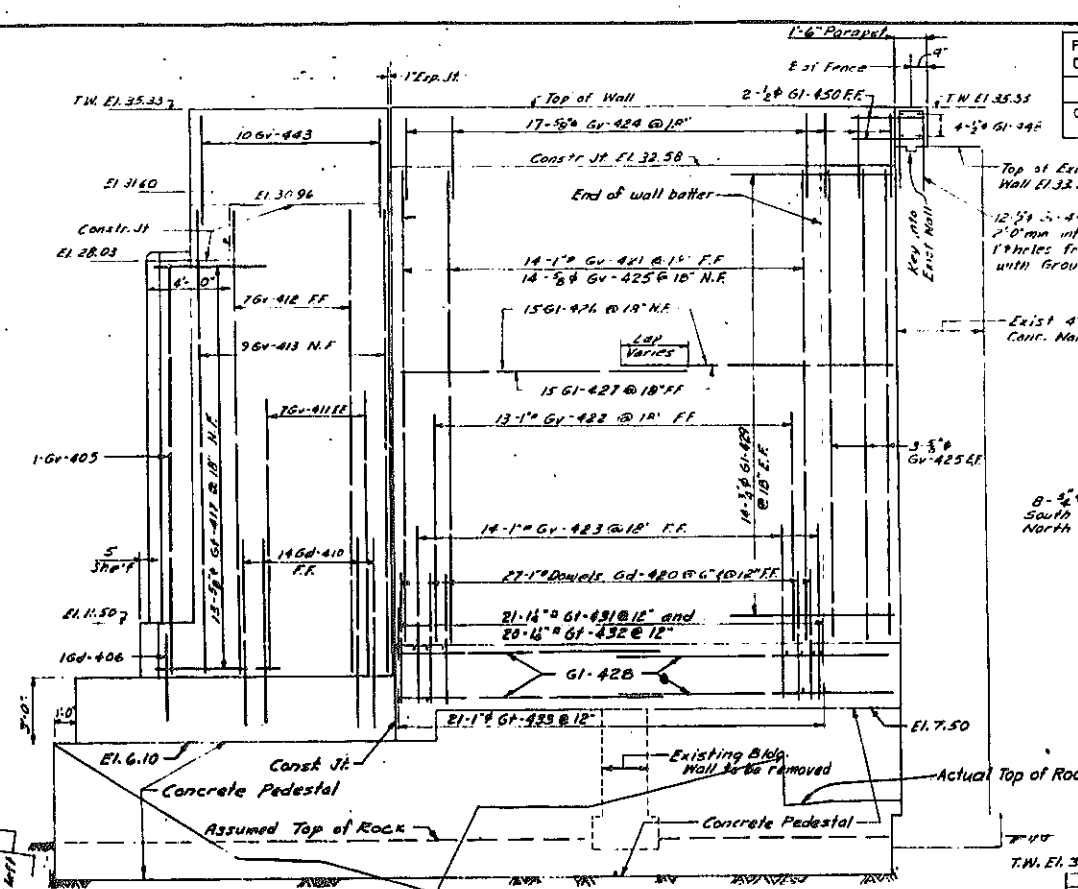
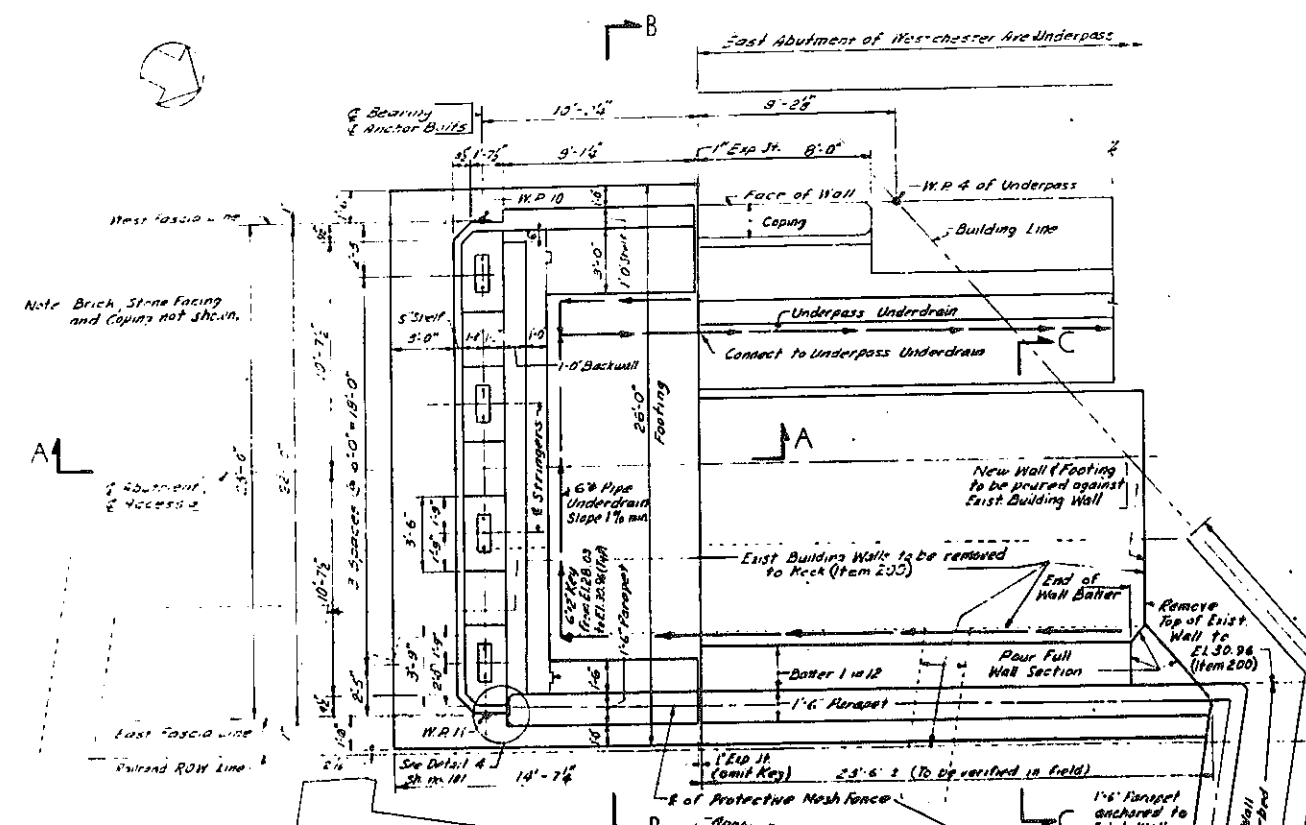
In Charge Of D. O'Brien
Made By D.C.H.R.E.M.
Traced By L.C.
Checked By R.J.M.

Total Each Footing:
2 Vertical Sunkered Piles
& Sunkered Piles, Batter 2" in 12" oriented as shown.

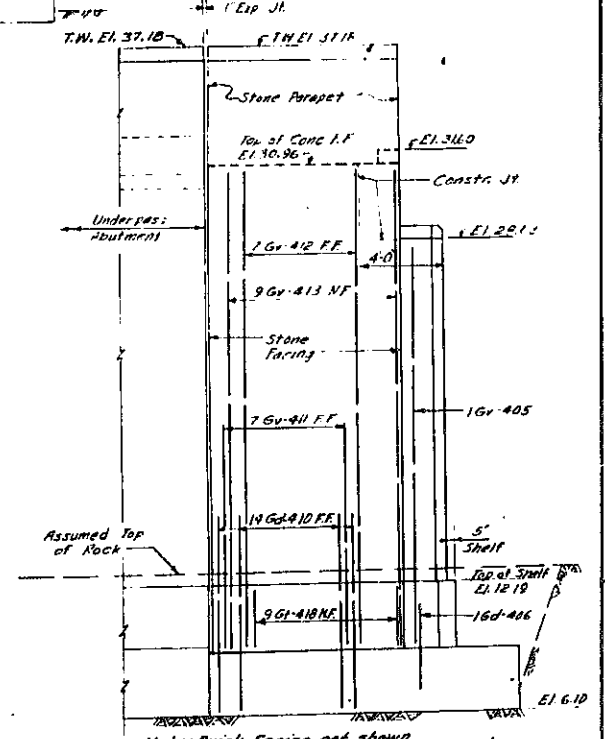
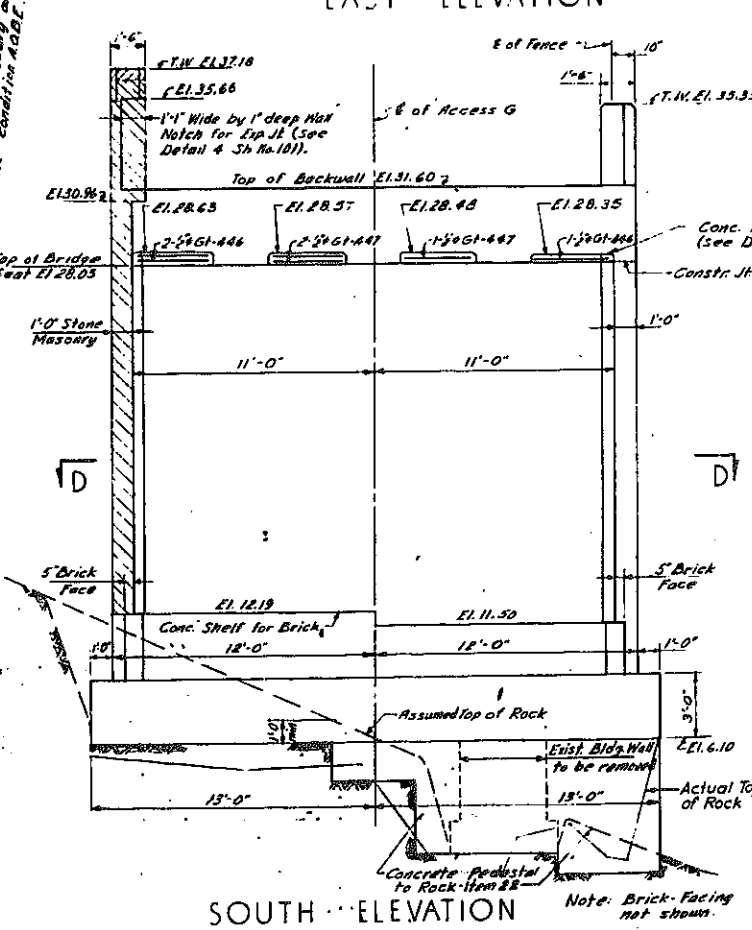
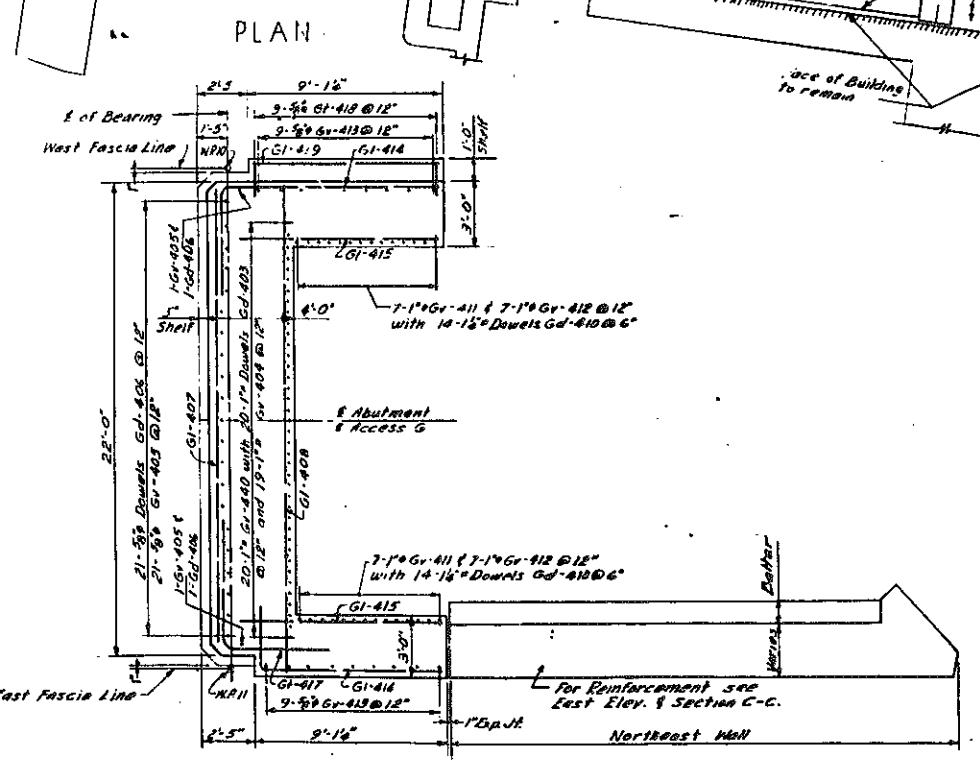


FED RD DIV NO	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
1	NY	EI-278(45)		103	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST TO E TREMONT AVE
CONTRACT NO 2



ABUTMENT PEDESTAL PLAN
Scale: 3/4" = 1'-0"



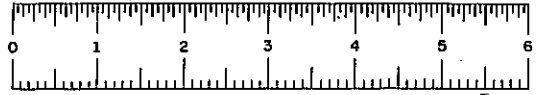
WEST ELEVATION

ARTHUR V. SHERIDAN EXPRESSWAY		
ACCESS G VIADUCT		
NORTH ABUTMENT		
SCALE 1/4" = 1'-0"	DATE Dec. 2, 1957	SHEET NO. 103
CLARKE & RAPUANO NEW YORK ENGINEERS		

In Charge Of: D. O'Brien
Made By: L.S. FOGH
Traced By: L.C. F.S.T.
Checked By: R.H.

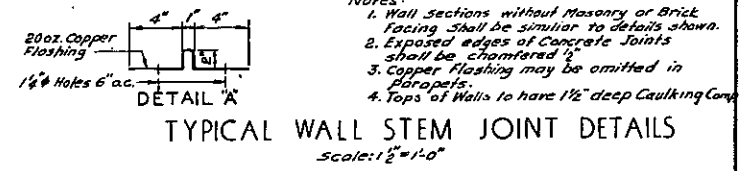
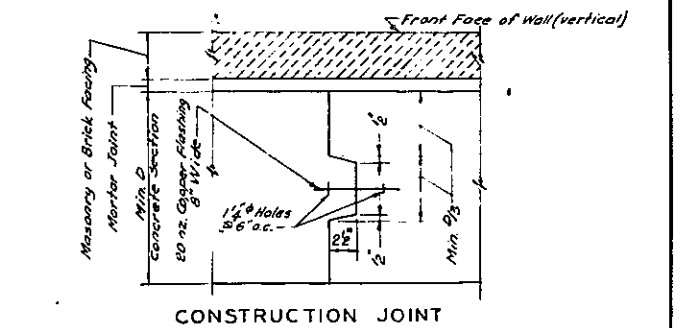
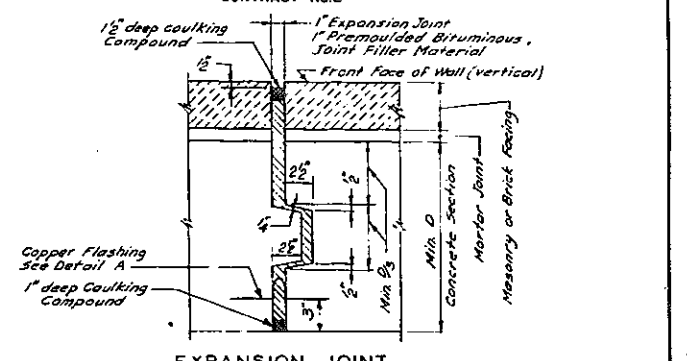
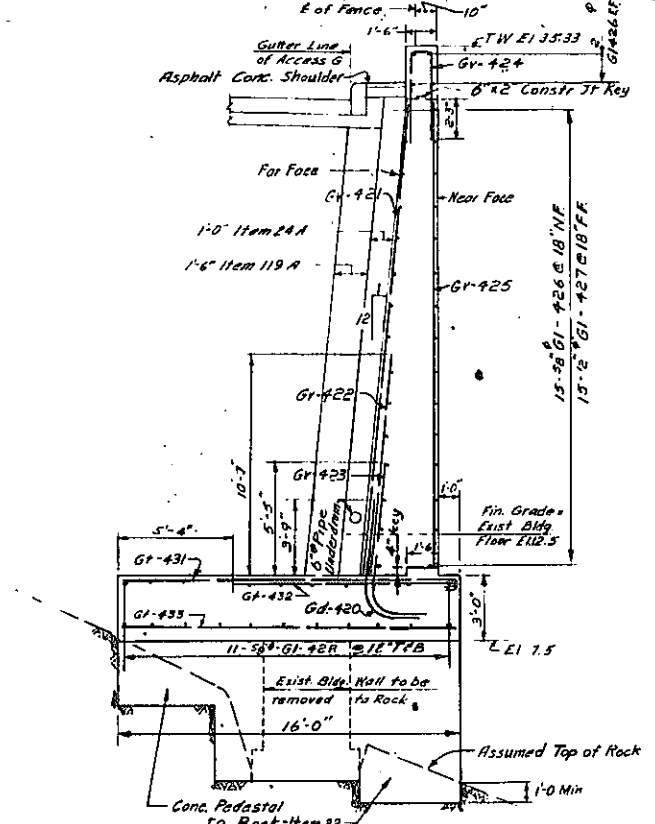
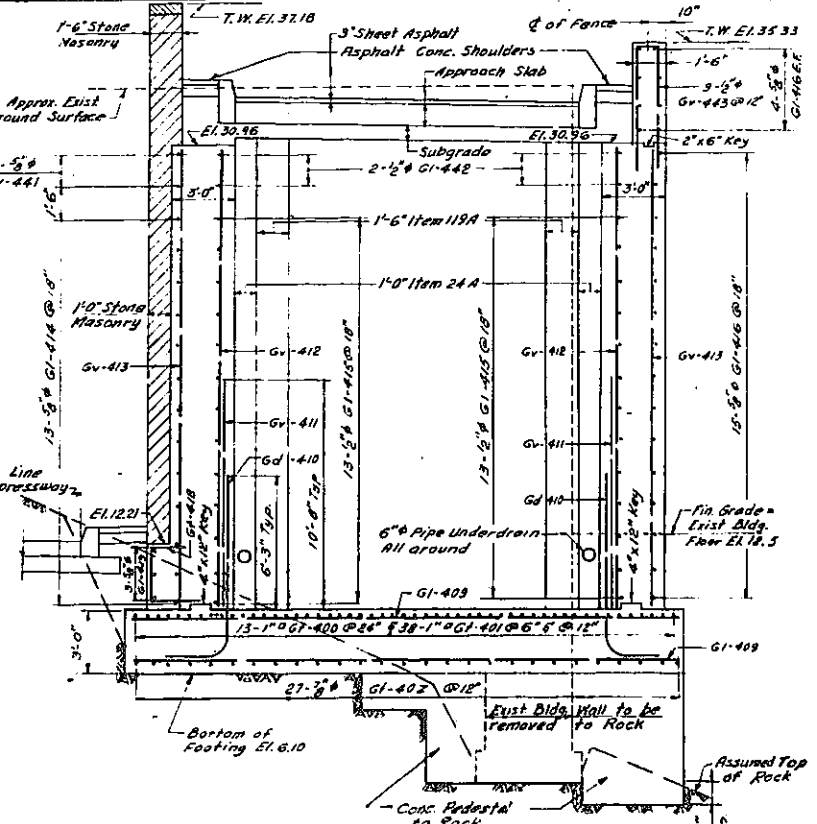
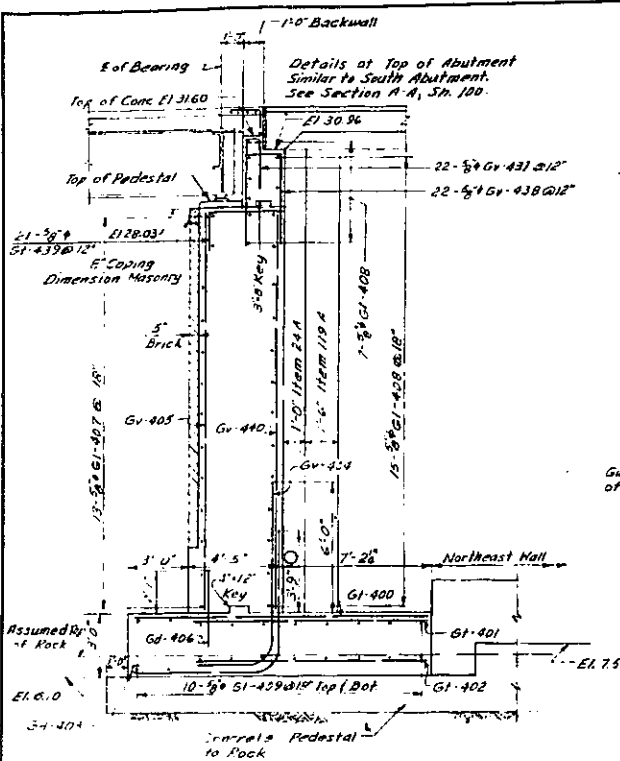
Notes:
1 For Additional Notes and References see Sheet No. 102
2 For Sections A-A, B-B and C-C see Sheet No. 104
3 For Details of Wall Stem Joints see Sheet No. 104

CORRECT AS BUILT

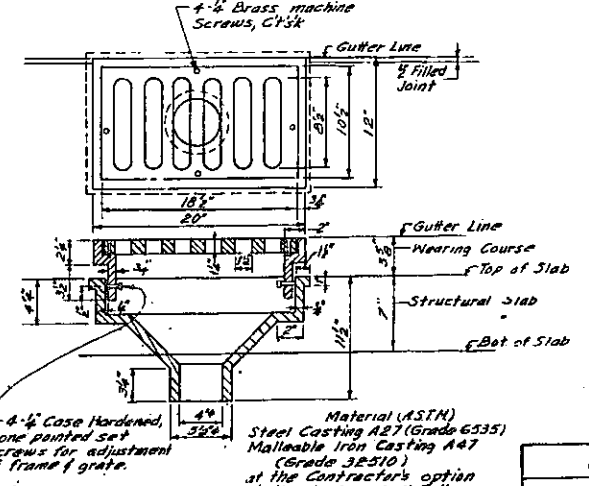
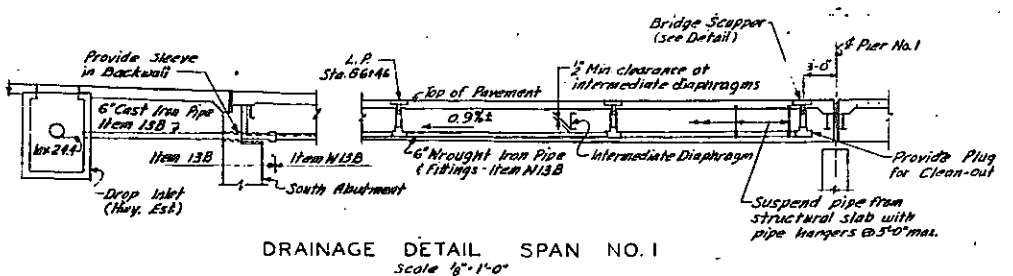
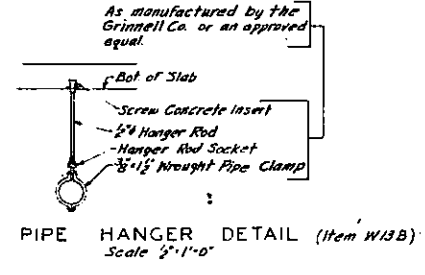
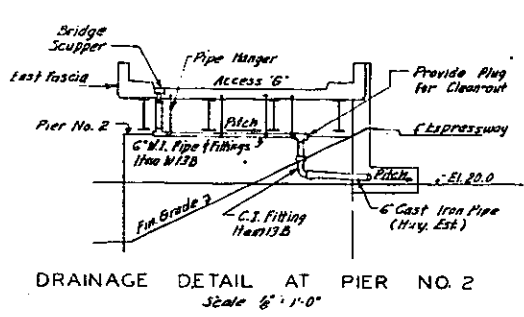
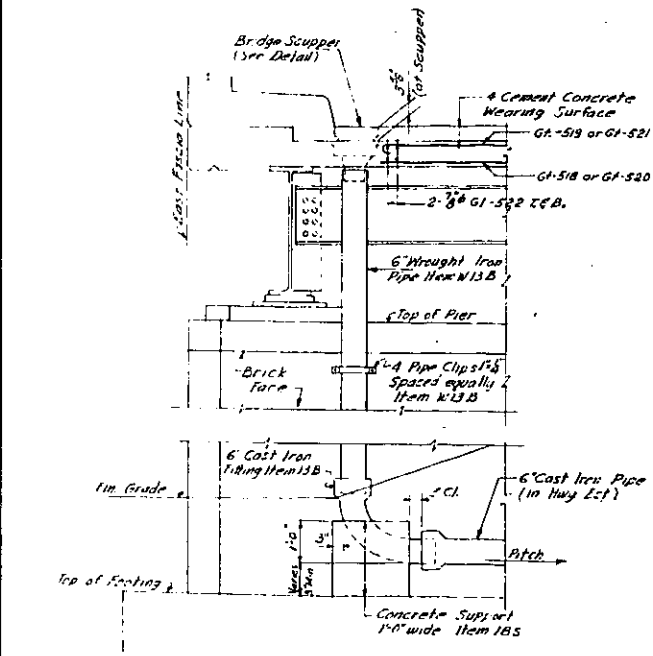


FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
I	NY	EI-278-1(45)		104	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



- Notes:
 1. Wall sections without Masonry or Brick facing shall be similar to details shown.
 2. Exposed edges of Concrete Joints shall be chamfered 1/2".
 3. Copper Flashing may be omitted in parapets.
 4. Tops of Walls to have 1/2" deep Caulking Comp.



- Notes:
 1. For Additional Notes and References see Sheet No. 107.
 2. For Location of Sections A-A, B-B and C-C see Sheet No. 103.
 3. For Details of Brick Facing see Sh. No. 81.

In Charge O. D. O'Brien
 Made By L. S. R.J.H.
 Traced By L. C. E.S.T.
 Checked By R.J.H.

DRAINAGE DETAILS

CORRECT AS BUILT

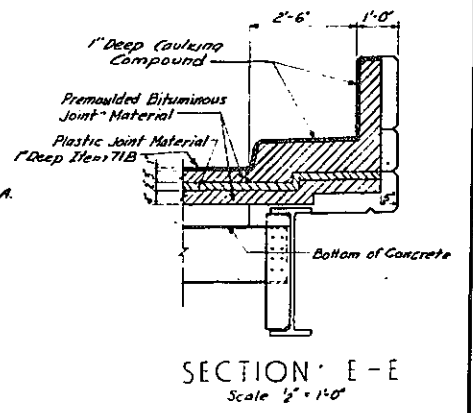
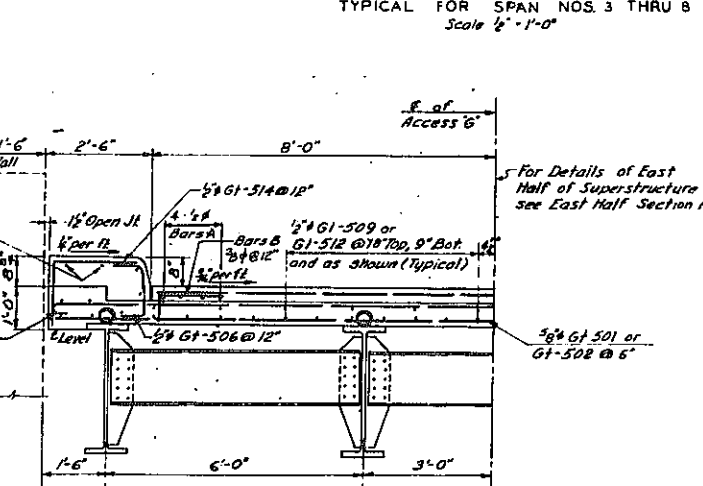
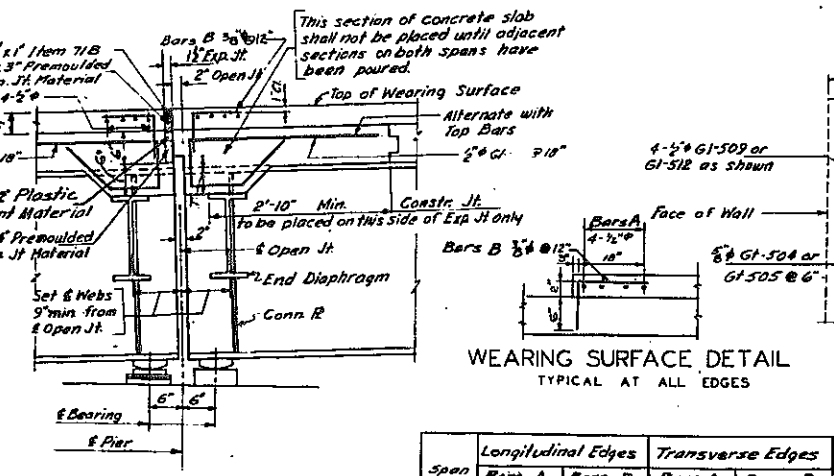
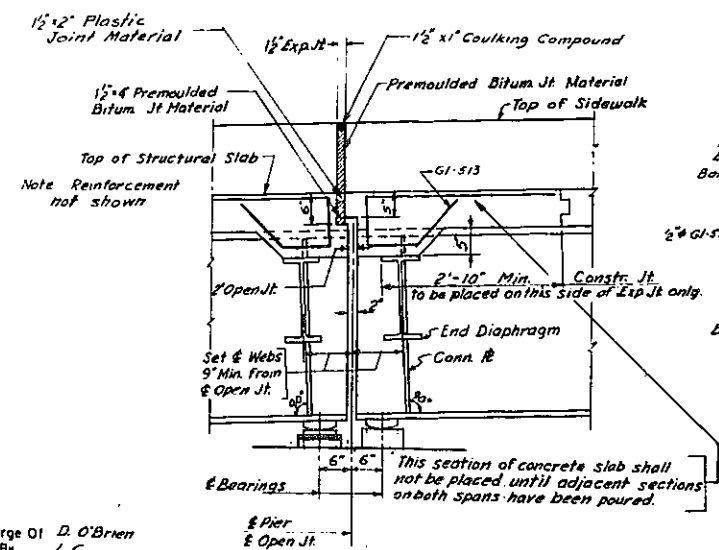
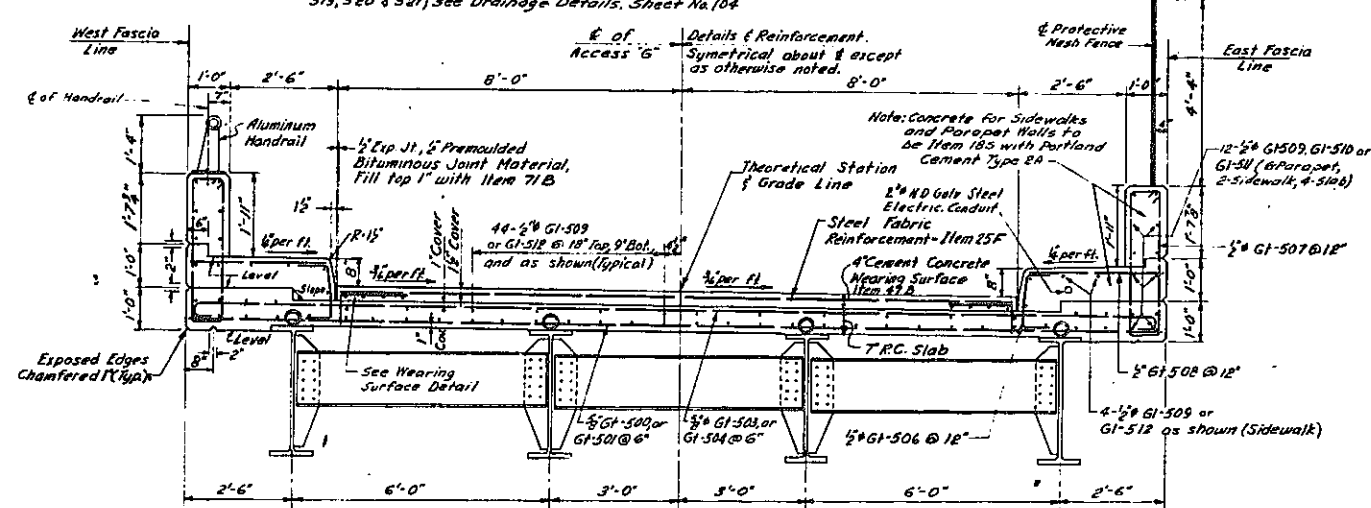
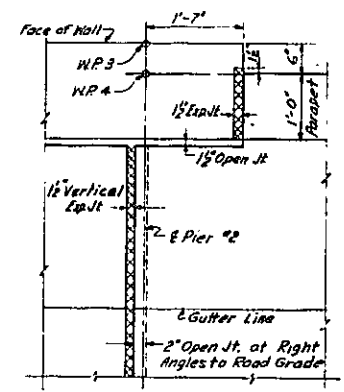
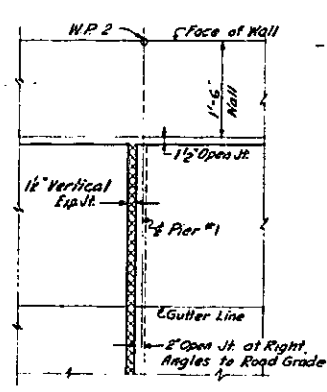
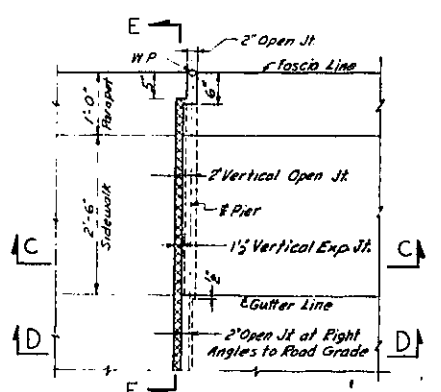
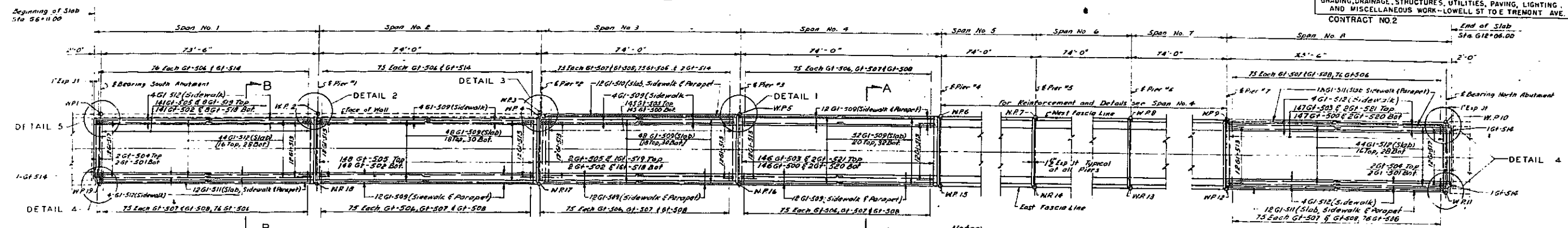
ARTHUR V. SHERIDAN EXPRESSWAY		
ACCESS G VIADUCT		
NORTH ABUTMENT & MISCELLANEOUS DETAILS		
SCALE As Shown	DATE Dec. 2, 1957	SHEET NO. 104
CLARKE & RAPUANO NEW YORK		ENGINEERS



FIASE 60-1

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	ET-276-109		105	159

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK - LOWELL ST TO TREMONT AVE.
CONTRACT NO. 2



Span No.	Longitudinal Edges		Transverse Edges	
	Bars A	Bars B	Bars A	Bars B
1-8	16 G1-512	152 Gv-515	8 G1-516	34 Gv-515
8 THRU 16	G1-509	150 Gv-515	8 G1-516	34 Gv-515

* Total number of bars in each span.

In Charge Of D. O'Brien
Made By L.C.
Traced By L.C.
Checked By R.F.M.

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY
ACCESS G VIADUCT
VIADUCT SLAB
REINFORCING & DETAILS

SCALE As Shown	DATE Dec. 2, 1957	SHEET NO. 105
CLARKE & RAPUANO NEW YORK		ENGINEERS

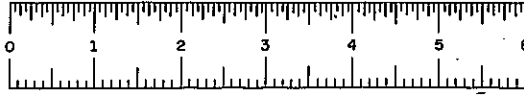
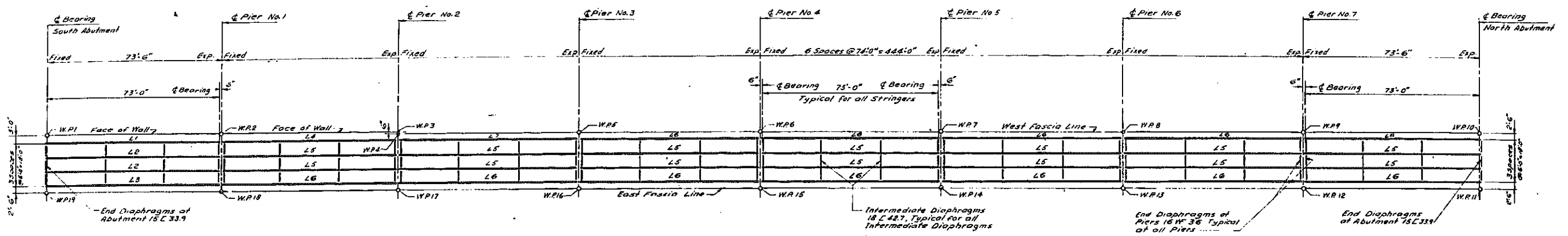


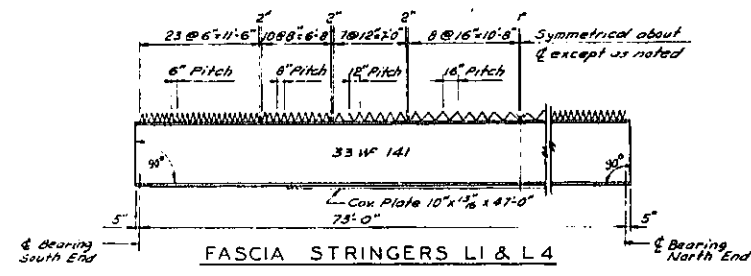
PLATE 60-1

FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-276-6(5)		106	139

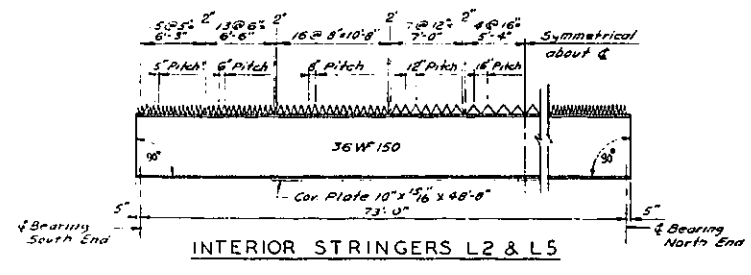
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



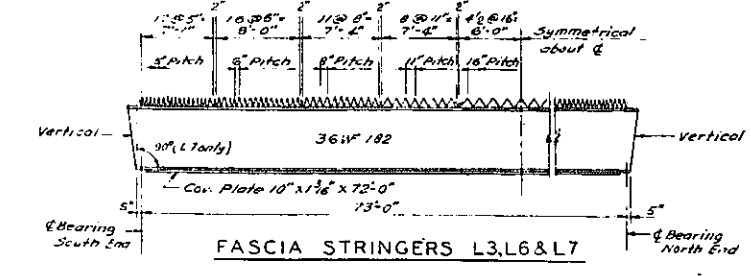
FRAMING PLAN
Scale: 1" = 20'



FASCIA STRINGERS L1 & L4



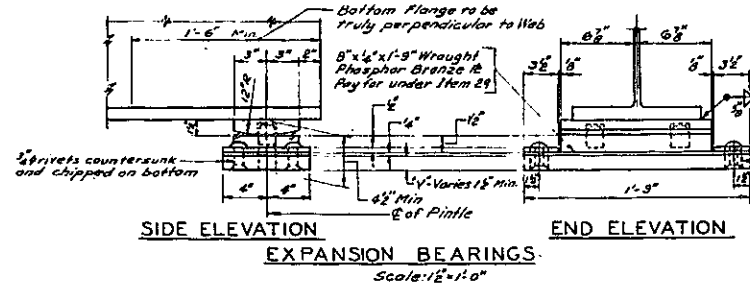
INTERIOR STRINGERS L2 & L5



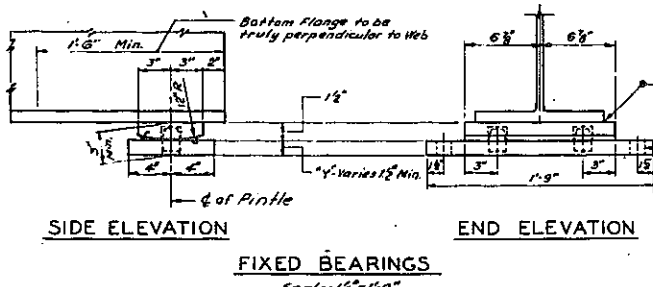
FASCIA STRINGERS L3, L6 & L7

ELEVATION OF STRINGERS
Not to Scale

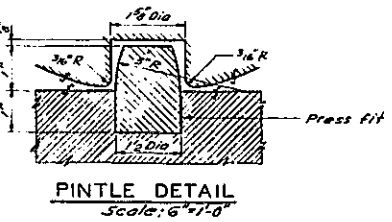
STRINGER NO	CAMBER		BEARINGS	
	Dead Load	Vertical Curve	South End	North End
L1	2"	2 1/8" Down	Fixed 1 1/2"	Exp. 1 1/2"
L2	1 1/2"	2 3/8" Down	Fixed 1 1/2"	Exp. 1 1/2"
L3	1 1/2"	2 1/8" Down	Fixed 1 1/2"	Exp. 1 1/2"
L4	2"	-	Fixed 3 1/2"	Exp. 2 1/2"
L5	1 1/2"	-	Fixed 3 1/2"	Exp. 1 1/2"
L6	1 1/2"	-	Fixed 3 1/2"	Exp. 1 1/2"
L7	1 1/2"	-	Fixed 1 1/2"	Exp. 1 1/2"



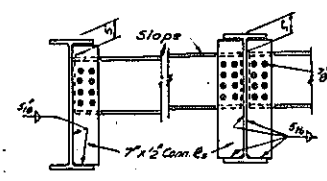
EXPANSION BEARINGS
Scale: 1/2" = 1'-0"



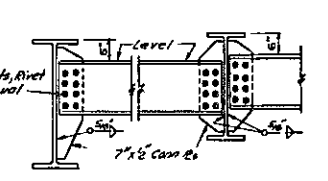
FIXED BEARINGS
Scale: 1/2" = 1'-0"



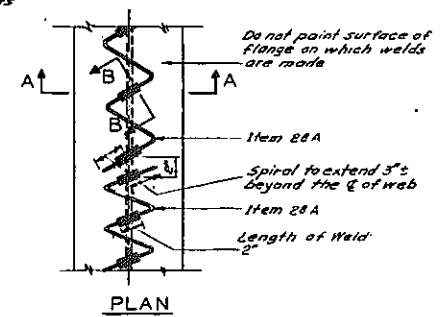
PINTLE DETAIL
Scale: 6" = 1'-0"



END DIAPHRAGMS AT PIERS
Scale: 1/2" = 1'-0"

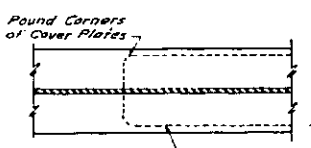


INTERMEDIATE DIAPHRAGMS
Scale: 1/2" = 1'-0"

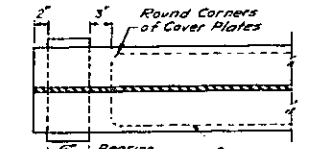


SPECIAL NOTES FOR SPIRALS
The contractor's attention is called to the possibility of interference between the reinforcing steel in the slab and the beam spirals. To avoid this interference the bar spacings may be varied 1/2" with the understanding that the required area of steel will be placed in each 5'-0". Even then some bars may have to be threaded thru one or more spirals. All spirals shall be placed symmetrically about the centerline of span on each stringer, except as noted. Welding Spiral Bar Shear Connectors to beam in field will not be permitted.

SPIRAL DETAILS
Not to Scale



TYPICAL PLAN DETAIL OF COVER PLATE STRINGERS L1, L2, L4, & L5
Not to Scale



TYPICAL PLAN DETAIL OF COVER PLATE STRINGERS L3, L6 & L7
Not to Scale

CORRECT AS BUILT

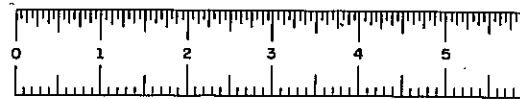
ARTHUR V. SHERIDAN EXPRESSWAY
ACCESS VIADUCT
FRAMING PLAN
& STEEL DETAILS

SCALE As Shown	DATE Dec. 2, 1957	SHEET NO. 106
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CLARKE & RAPUANO
NEW YORK ENGINEERS

In Charge Of D. O'Brien
Made By D.C.H. & S.L.
Traced By S.T.
Checked By R.F.M.

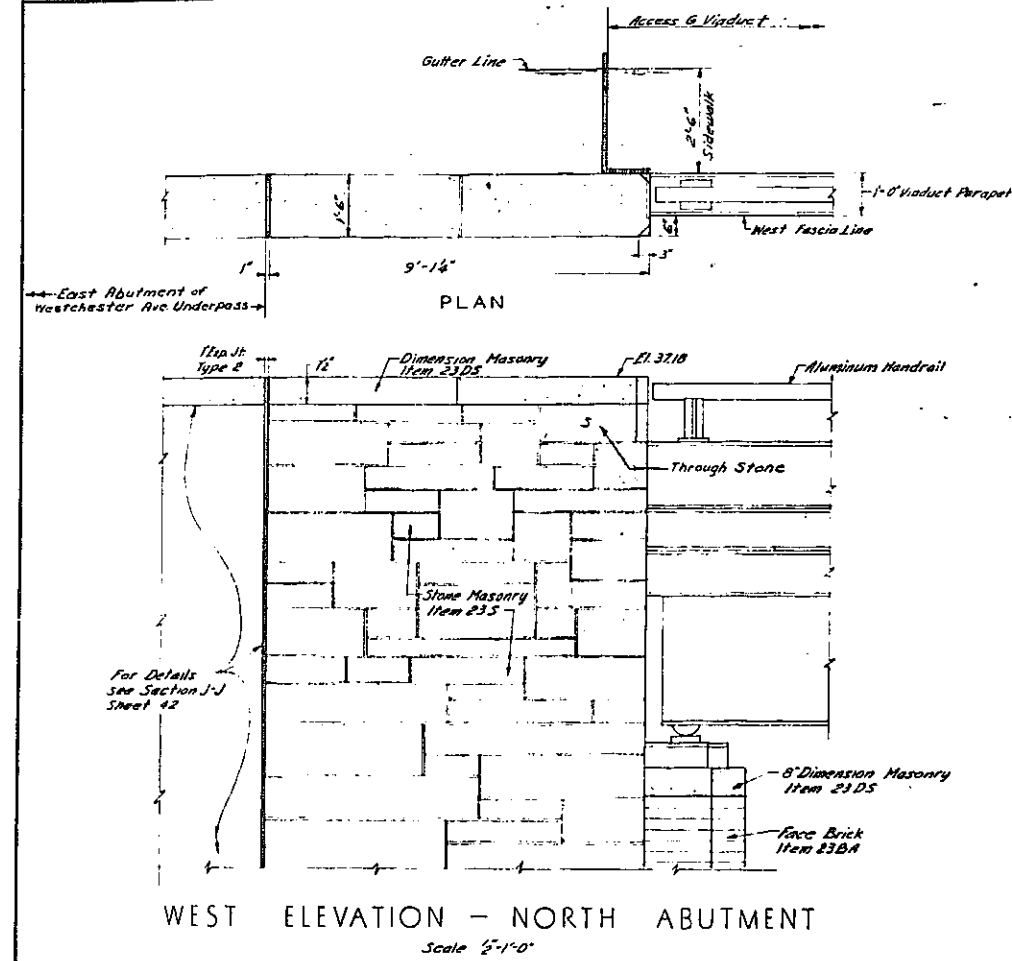
Note: For Additional Notes & References See Sheet No. 107.



PHASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	ET-278(95)		107	189

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



NOTES

- For General Notes see Sheet No. 79.
- For design purposes the assumed maximum pile load is 35 Tons for Item 85C Piles. For reinforcement details see Sheet No. 101.
- All Socketed Piles are paid for under Item 85CA. For design purposes the assumed maximum pile load is 125 Tons for Item 85CA Piles. For details see Sheet No. 102.
- For design purposes, the assumed bearing pressure on rock of Footings and Pedestals to Rock does not exceed 7 Tons per Sq. Ft. For Earthwork Payment Lines see sheets 7, 9, 100, 102 and 104.
- All concrete shall be Item 185 "Class 1A Concrete for Structures", except:
 - Concrete in wearing surface shall be Item 418
 - Concrete in Pedestals to Rock under North Abutment shall be Item 22.
- For cement items to be used in the various concrete items in this contract see Sheet No. 1.
- All exposed edges of concrete to be chamfered (except as noted).
- All reinforcing bars shall be paid for under Item 28 "Bar Reinforcement for Structures".
- All Structural Steel including beam bearings and anchor bolts, nuts & washers for Handrails shall be paid for under Item 292.
- Spiral Bar Shear Connectors shall be paid for under Item 28A. For details see Sheet No. 106.
- For Alignment and Paving see Sheet No. 19.
- For Grading and Fencing see Sheet No. 24.
- For Drainage and Utilities see Sheet No. 29.
- For Electrical Distribution Plan and Details of Lamppost see Sheets Nos. 108 and 33.
- For typical Sections and Paving Details at approaches see Sheets Nos. 6 and 7.
- For details of Protective Mesh Fence and Aluminum Handrail see Sheet No. 81, except for positioning on parapet walls see Access G wall & viaduct sections.
- For details of Stone Anchors and Brick Anchors see Sheet No. 79.
- For details of brick work and coping at terminal of westerly 1'-6" Parapet Wall on South Abutment see Sheet No. 80.
- For details of brick work and coping for Piers see Sheet No. 81.
- For Alterations to N.Y., N.H. & N.R.R. Catenary Support Structures east of Access G Viaduct see Sheets Nos. 93 thru 96.
- Top of all pedestals shall be poured 1/4" higher than final elevation and shall be bush-hammered to exact elevation.
- Where Footings are to be founded on Rock the Foundation note of the General Notes (Sheet No. 79) shall be complied with.

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITIES		
			NE AT	ROUND	FINAL
25F-B	Selected Fill	C.Y.	181	190	308
55	Trench, Culvert and Bridge Excavation	C.Y.	1501	1950	1825
10RS	Pipe Underdrain, 6" Diam.	L.F.	503	515	310
13B	Cast Iron Pipe, 6" Diam.	L.F.	42	43	23
W13B	Wrought Iron Pipe, 6" Diam.	L.F.	176	185	176
15-2	Portland Cement Type 2	Bbl.	2682	2720	2733
15-25	Portland Cement Type 25 Plus A.E.A.	Bbl.	504	510	500
15-N	Natural Cement Type N	Bbl.	384	395	492
18S	Class 1A Concrete for Structures	C.Y.	1827	1870	1811.19
22	Class 3 Concrete	C.Y.	118	140	101.60
23BA	Brick Facing, Type A	S.F.	6046	6200	4377.13
23S	Stone Masonry	S.F.	314	320	289.77
23DS	Dimension Masonry	S.F.	265	285	896.15
24A	Bagged Screened Gravel	C.Y.	131	135	133.20
25F	Steel Fabric Reinforcement	S.Y.	1058	1085	1058
28AR	Bar Reinforcement for Structures	Lb.	237574	258000	237915
28A	Spiral Bar Shear Connectors	Lb.	5455	5550	5604
29RZ	Structural Steel	Lb.	50192	50192	50192
30	Miscellaneous Metals	Lb.	2205	2280	2156
47BP	Cement Concrete Pavement	C.Y.	116	120	116.36
61	Bituminous Material	Gal.	151	140	151
67	Furnishing Equipment for Driving Piles	L.S.	Nec.	Nec.	52%
B5C	Cast-In-Place Concrete Piles	L.F.	4713	5000	4636
B5CA	Cast-In-Place Concrete Piles, 18" O.D.	L.F.	563.91	563.91	563.91
83X	Temporary Sheet Piling	S.F.	0	0	2655
93	Broken Stone - Loose Measure	C.Y.	43	45	79.4
119A	Bank Gravel Fill	C.Y.	168	170	184
221A	Furnishing and Installing Metal Handrail/Aluminum	L.F.	603	615	590.5
36B	Furnish and Install Ballasts	Eq.	5	5	5
22B	Wire Mesh Protective Fence, Type A	L.F.	718	725	711.8
705	C.I. Serv. Box, Wall Mounted, 24"x12"x10"	Eq.	5	5	5
326C	Furnish and Install Type B3-AL Lamppost and Luminaire on Parapets	Eq.	5	5	5
336B	Cast Iron Service Box, Sidewalk Type #2	Eq.	4	4	0
342D	Conduit, Hot Dipped Galv Steel Pipe, 1 1/2" Dia.	L.F.	175	185	13
342E	Conduit, Hot Dipped Galv Steel Pipe, 2" Dia.	L.F.	381	395	571
344HD	Furnish and Install Conductors #6, R.I.N.C.	L.F.	1772	1850	2180
720	Remove Existing Superstructures Revised	L.S.	100%	100%	100%
352X	Rubber Joint Material	Gal.	23	25	50

Note:
Item 8145 and a part of Item 292 as included in this Estimate pertain to the work required for the Alterations to N.Y., N.H. & N.R.R. Catenary Support Structures.

LEGEND

- ⊕ Vertical Pile Item 85C
- ⊕ Batter Pile Item 85C
- ⊕ Vertical Pile Item B5CA
- ⊕ Batter Pile Item B5CA
- ⊙ Wall Stem Construction Joint
- ⊙ Wall Stem Expansion Joint
- N.F. Near Face
- F.F. Far Face
- E.F. Each Face

In Charge Of: D. O'Brien
 Made By: R.H.
 Traced By: C.K. & S.T.
 Checked By: D.C.H.

CORRECT AS BUILT

ARTHUR V. SHERIDAN EXPRESSWAY
 ACCESS G VIADUCT
 STONE DETAILS,
 NOTES & ESTIMATE OF QUANTITIES

SCALE No Scale	DATE Dec. 2, 1957	SHEET NO. 107
CLARKE & RAPUANO NEW YORK		ENGINEERS

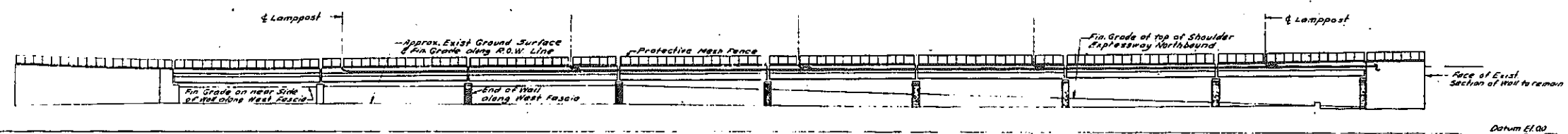
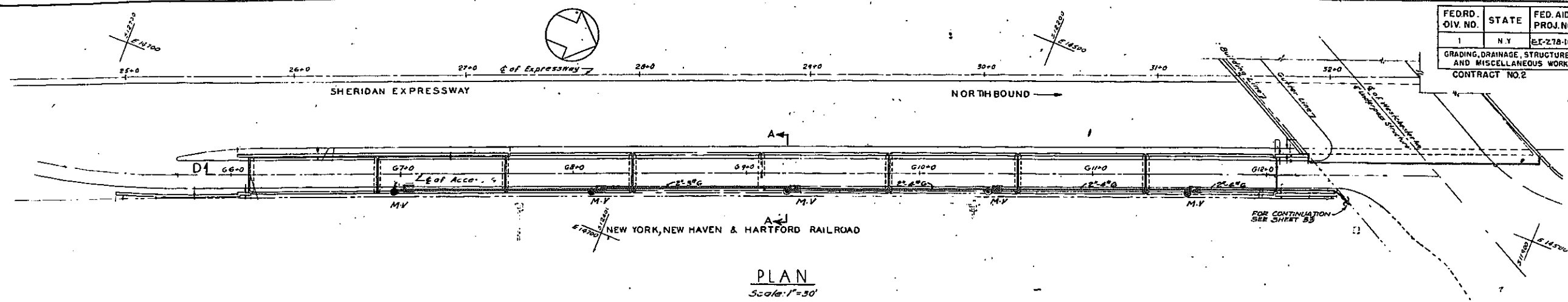


PHASE 60-1

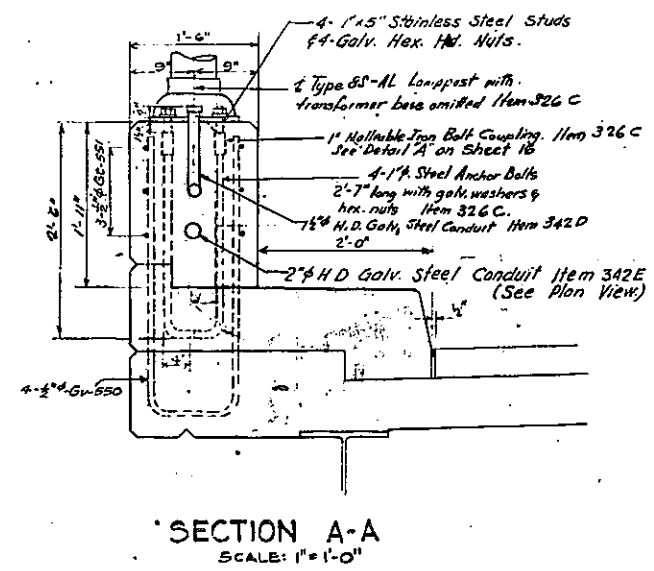
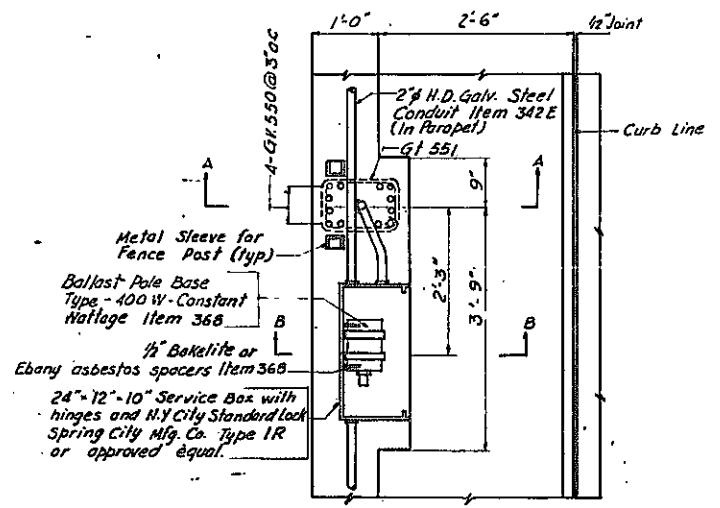
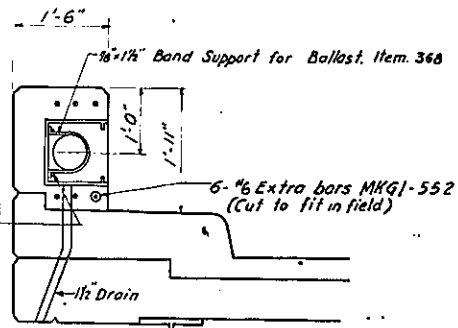
FED. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EX-278-169		106	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

108R



- LEGEND**
- ⊙ FURN & INSTALL TYPE 65-AL LAMPPOST & LUM. ON PARAPET, ITEM 326C
 - SERVICE BOX, SIDEWALK TYPE #2, ITEM 336D
 - 2" x 2" CONDUIT & WIRE - FIRST NO. INDICATES CONDUIT SIZE, SECOND NO. WIRE SIZE



In Charge J.E.E.
Made By J.I.V.
Traced By J.I.V.
Checked By B.Y.

Revised by Shumvon Buckley and Goul.
Sept. 26, 1961.

CORRECT AS BUILT
Rev. 12-2-57

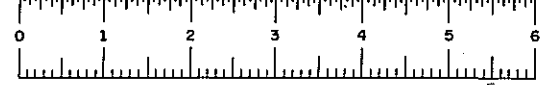
ARTHUR V. SHERIDAN EXPRESSWAY

ACCESS G VIADUCT
ELECTRICAL LAYOUT

SCALE As Shown	DATE 10-14-57	SHEET NO. 106
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CLARKE & RAPUANO
NEW YORK ENGINEERS

FIASE 60-1



DETAILS FOR BARS SHOWN ON SHEET NO. 99, 100														DETAILS FOR BARS SHOWN ON SHEET NO. 99, 101, 102														DETAILS FOR BARS SHOWN ON SHEET NO. 103, 106																																																															
Mk.	Size	Length	No. Req.	Type	Detail Dimensions										Location	Mk.	Size	Length	No. Req.	Type	Detail Dimensions										Location	Mk.	Size	Length	No. Req.	Type	Detail Dimensions										Location																																												
GA100	1/2"	12'-1"	19	11	1-5	5'-2 1/2	1'-3 1/2	4'-11"							1-2	SOUTH ABUTMENT	GA201	3/8"	8'-5"	25	11	-	2'-0"	0'-10 1/2	4'-3 1/2	1'-2"							0-7 1/2	Footing & Stem																																																									
																																												GA101	1/2"	14'-1"	13	5/8"											North Abutment	GA202	1/2"	10'-9"	38	5/8"											Footing	GA301	1/2"	14'-1"	13	5/8"											Footing
GA210	1/2"	9'-10"	48	113	7-7	1'-11"	0'-4"							-1-2 0-5 1/2	Footing	GA211	1/2"	10'-0"	48	5/8"											Stem	GA302	1/2"	10'-0"	48	5/8"											Footing (Piers 1 & 2)	GA303	1/2"	11'-4"	18	5/8"											Footing																												
GA110	1/2"	15'-2"	10	5/8"											1-2	Footing	GA111	1/2"	15'-2"	10	5/8"											Footing	GA304	1/2"	10'-0"	48	5/8"											Stem	GA305	1/2"	11'-4"	18	5/8"											Footing																											
GA112	1/2"	10'-8"	3	5/8"											-	Footing	GA113	1/2"	10'-8"	3	5/8"											Footing	GA306	1/2"	10'-0"	48	5/8"											Stem	GA307	1/2"	11'-4"	18	5/8"											Footing																											
GA114	1/2"	15'-8"	9	17	-	10-8	5-0							0-4 1/2	Parapet	GA115	1/2"	15'-8"	9	17	-	10-8	5-0							0-4 1/2	Parapet	GA308	1/2"	10'-0"	48	5/8"											Stem	GA309	1/2"	11'-4"	18	5/8"											Footing																												
GA116	1/2"	10'-11"	25	11	-	1-10	1-2	2-1	1-2"							0-9	Footing & Stem	GA117	1/2"	10'-11"	25	11	-	1-10	1-2	2-1	1-2"							0-9	Footing & Stem	GA310	1/2"	10'-0"	48	5/8"											Stem	GA311	1/2"	11'-4"	18	5/8"											Footing																								
GA118	1/2"	7'-6"	10	5/8"											1-2	Footing	GA119	1/2"	10'-11"	25	11	-	1-10	1-2	2-1	1-2"							0-9	Footing & Stem	GA312	1/2"	10'-0"	48	5/8"											Stem	GA313	1/2"	11'-4"	18	5/8"											Footing																									
GA120	1/2"	12'-6"	8	17	-	0-8	16-10							0-7 1/2	Footing	GA121	1/2"	12'-6"	8	17	-	0-8	16-10							0-7 1/2	Footing	GA314	1/2"	10'-0"	48	5/8"											Stem	GA315	1/2"	11'-4"	18	5/8"											Footing																												

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N Y	EL-218-1(44)	113	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK LOWELL ST. TO E. TREMONT AVE.

NOTES FOR BAR REINFORCEMENT

- All dimensions in bar list are out to out of bar, except 180° & 135° & 90° hook dimensions A & B which are to be standard in accordance with current AASHTO "Manual of Recommended Practice for Detailing Reinforced Concrete Highway Structures".
- All bar bends are to be in accordance with AASHTO "Standard Specifications for Highway Bridges".
- Total length of bars as shown in bar list makes no allowance for bend curvature except for standard hooks A & B radii in excess of some.

**ARTHUR V. SHERIDAN EXPRESSWAY
ACCESS G VIADUCT
BAR LIST**

DWG. SCALE	DATE	SHEET NO.
EL 34	12-27-97	113

CLARRIE RAJAPANO
NEW YORK, N. Y. ENGINEERS

In charge of D. O'Brien
Made by...
Traced by...
Checked by... F. X.M.

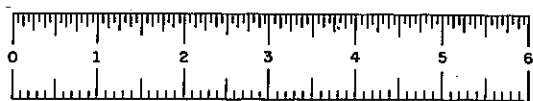
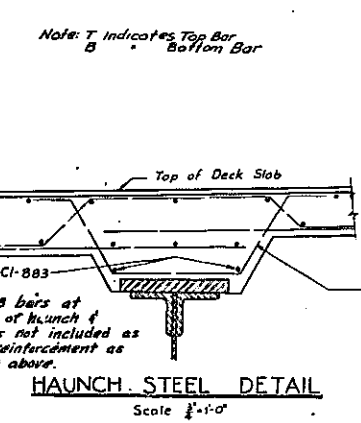
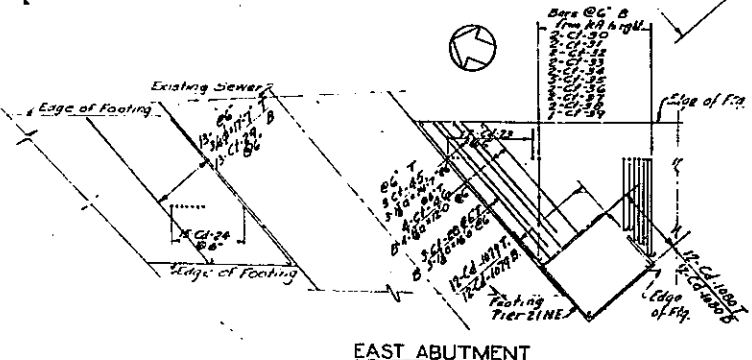
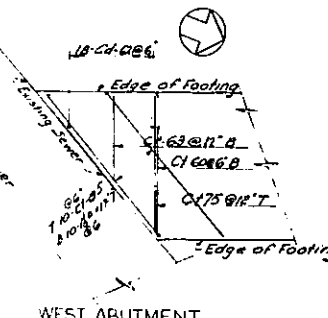
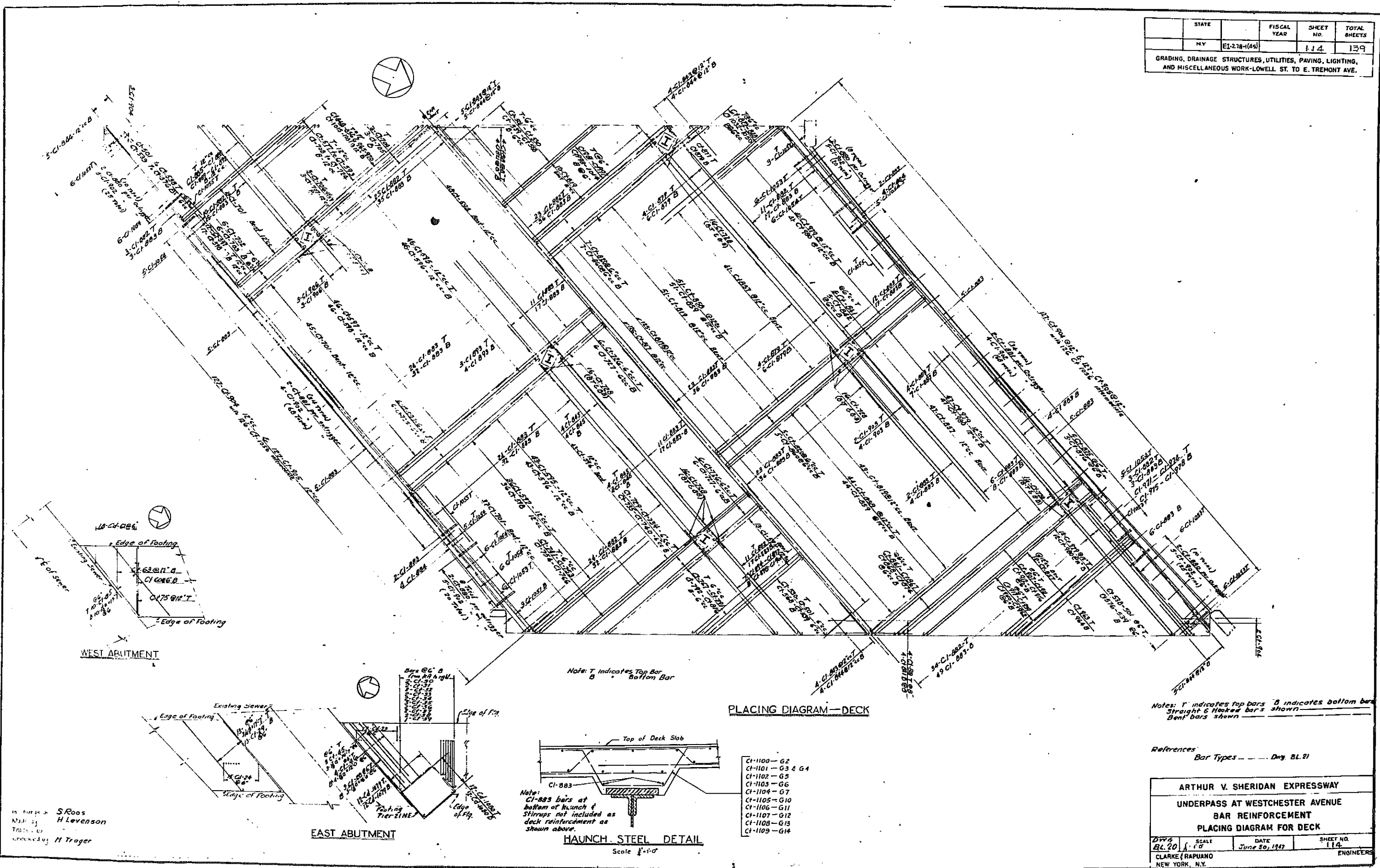


PLATE 60-1

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
NY	E1-278-1(45)	114	139

GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK—LOWELL ST. TO E. TREMONT AVE.



- PLACING DIAGRAM—DECK**
- CI-1100 - G2
 - CI-1101 - G3 & G4
 - CI-1102 - G5
 - CI-1103 - G6
 - CI-1104 - G7
 - CI-1105 - G10
 - CI-1106 - G11
 - CI-1107 - G12
 - CI-1108 - G13
 - CI-1109 - G14

Notes: T indicates top bars B indicates bottom bars
 Straight & Hooked bars shown
 Bent bars shown

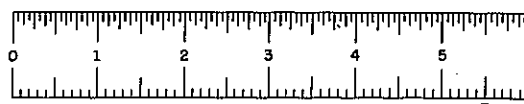
References:
 Bar Types - - - - - Div. BL 21

By: S. Roos
 H. Levenson
 Checked by: H. Troger

ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVENUE
BAR REINFORCEMENT
PLACING DIAGRAM FOR DECK

DATE	SCALE	SHEET NO.	TOTAL SHEETS
June 30, 1947	1/2" = 1'-0"	114	139

CLARKE & RAPUANO
 NEW YORK, N.Y. ENGINEERS



FIASE 60-1

DETAILS FOR BARS SHOWN ON SHEET NO. 45

Mk.	Size	Length	No. Req.	Type	Detail Dimensions											Location
					A	B	C	D	E	F	G	H	K			
CL101	3/8"	7'-10"	3	3	7'-0"	10"	4"									DECK
CL102	3/8"	6'-10"	3	3	6'-0"	10"	4"									
CL103	3/8"	1'-10"	24	ST												
CL104	3/8"	4'-9"	240	ST												
CL105	3/8"	10'-0"	4	ST												
CL106	3/8"	5'-9"	25	4	5'-9"	10"										
CL107	3/8"	35'-0"	7	ST												DECK
CL108	3/8"	3'-7"	267	9	2'-0"	5"	3"	1"								CURB SIX PLY
CL109	3/8"	41'-9"	1	6	1'-0"	1'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	CURB S.A. COENRE
CL110	3/8"	1'-0"	11	1'-5"	1'-0"											Haunch over G-2
CL111	3/8"	1'-0"	11	1'-11"	1'-0"											333 Haunch over G-3
CL112	3/8"	5'-7"	247	11	1'-7"	1'-0"										Haunch over G-5
CL113	3/8"	4'-0"	217	11	1'-0"	1'-0"										Haunch over G-6
CL114	3/8"	4'-2"	217	11	1'-0"	1'-7"										Haunch over G-7
CL115	3/8"	4'-1"	247	11	1'-7"	1'-8"										Haunch over G-10
CL116	3/8"	4'-7"	247	11	1'-7"	1'-11"										Haunch over G-11
CL117	3/8"	4'-2"	247	11	1'-8"	1'-8"										Haunch over G-12
CL118	3/8"	5'-10"	247	11	1'-10"	1'-5"										Haunch over G-13
CL119	3/8"	5'-4"	247	11	1'-10"	1'-2"										Haunch over G-14
																See Sheet No.
																Long. - I.R.T. Support
																Transverse - I.R.T. Support

DETAILS FOR BARS SHOWN ON SHEET NO.

Mk.	Size	Length	No. Req.	Type	Detail Dimensions											Location
					A	B	C	D	E	F	G	H	K			

DETAILS FOR BARS SHOWN ON SHEET NO.

Mk.	Size	Length	No. Req.	Type	Detail Dimensions											Location
					A	B	C	D	E	F	G	H	K			

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N. Y.	61-218-(45)	117	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK LOWELL ST. TO E. TREMONT AVE.

In charge of *S. Roos*
 Made by *H. Levenson*
 Traced by *H. Trager*
 Checked by *H. Trager*

References:
 Placing Diagram - Dwg. Bl. 20
 Bar Types - Dwg. Bl. 21

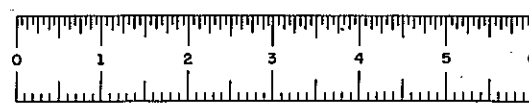
ARTHUR V SHERIDAN EXPRESSWAY

UNDERPASS AT WESTCHESTER AVENUE

BAR LIST FOR DECK

DWG	SCALE	DATE	SHEET NO.
BL 22	None	June 30, 1967	117

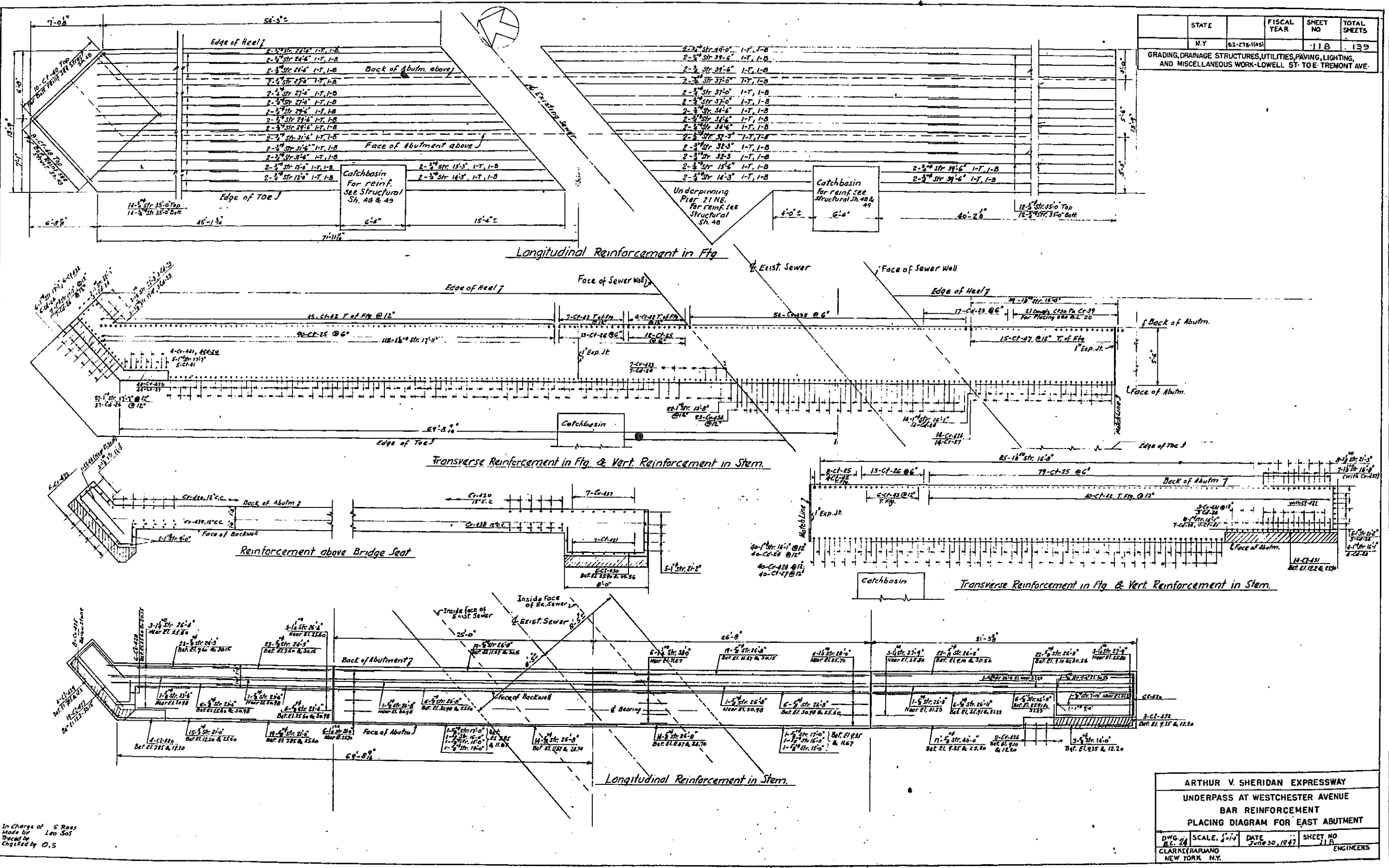
CLARKE RAPUNO
 NEW YORK, N. Y. ENGINEERS



FIASE 60-1

STATE	FISCAL YEAR	SHEET NO	TOTAL SHEETS
N.Y.	1947	118	139

GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.



In Charge of S. Ross
 Made by Leo Sos
 Traced by O.S.
 Checked by O.S.

ARTHUR V. SHERIDAN EXPRESSWAY
 UNDERPASS AT WESTCHESTER AVENUE
 BAR REINFORCEMENT
 PLACING DIAGRAM FOR EAST ABUTMENT

DWG. NO.	SCALE.	DATE	SHEET NO.
CLARETERRANO	1"=10'	June 30, 1947	118

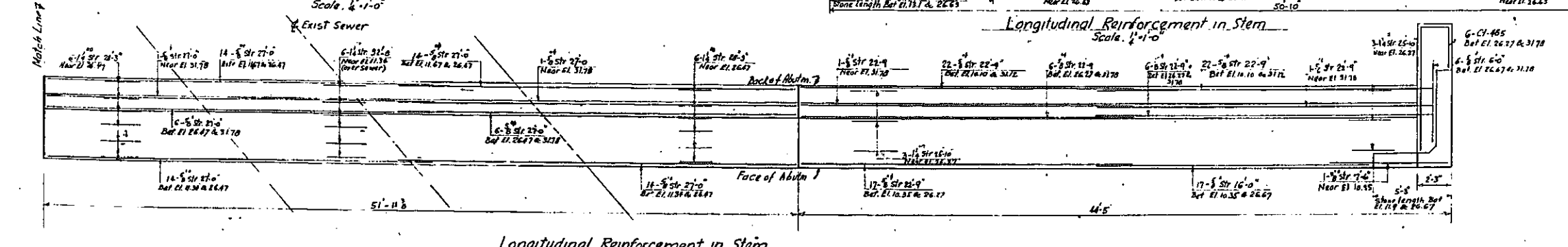
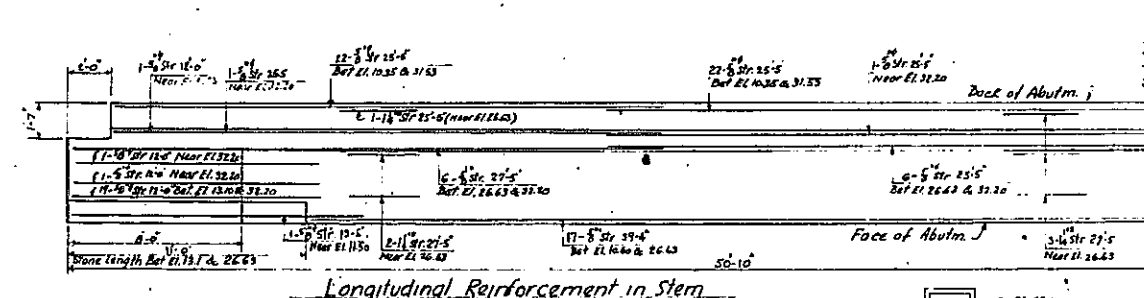
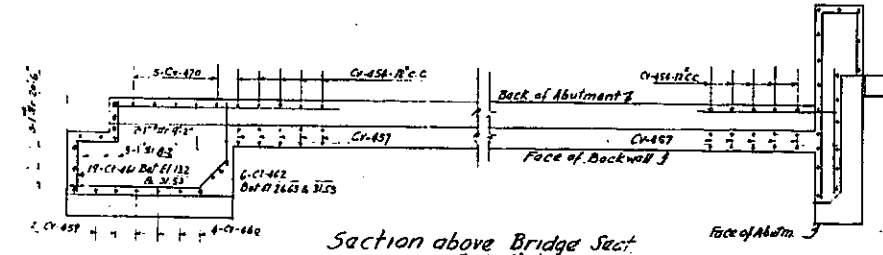
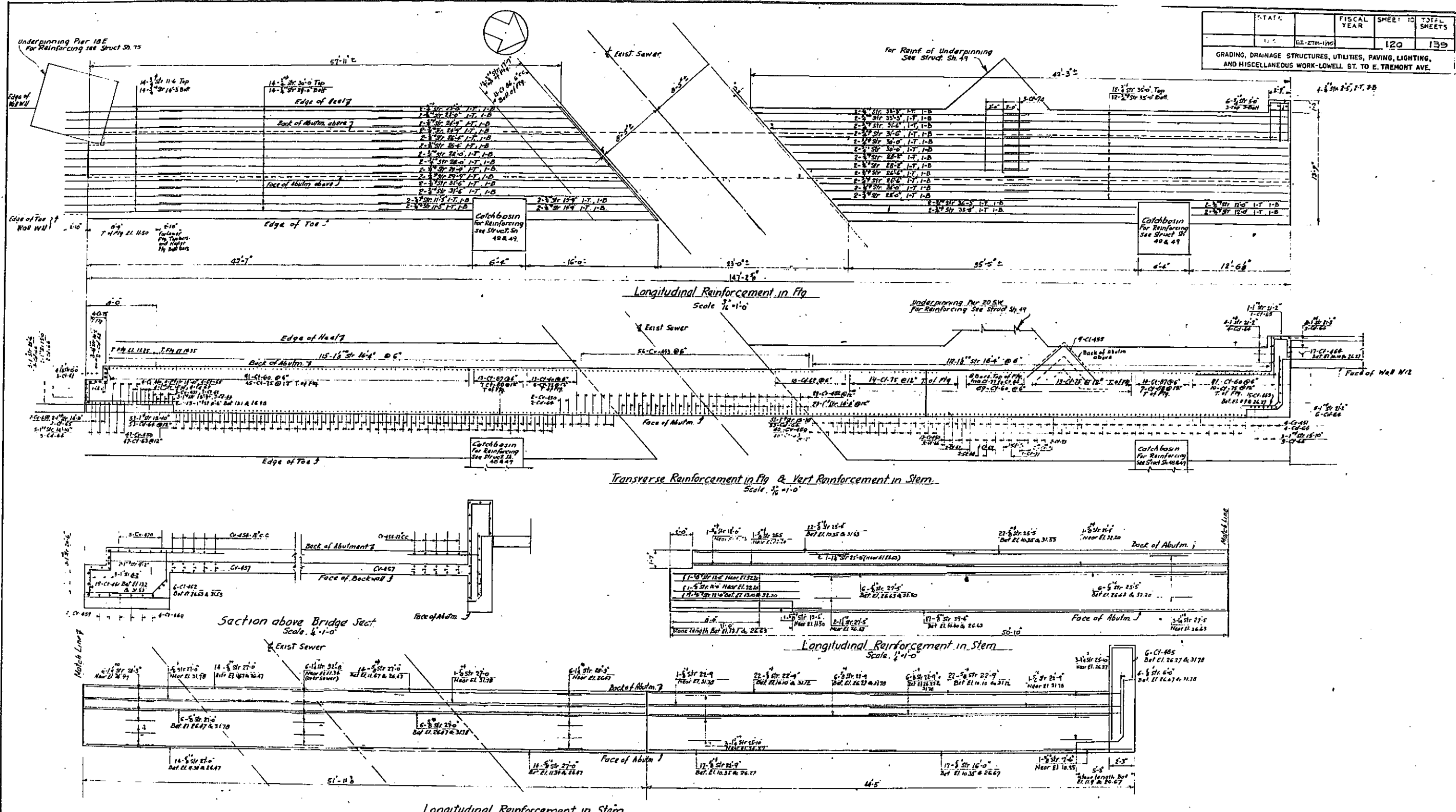
NEW YORK, N.Y. ENGINEERS



PLATE 60-1

STATE	FISCAL YEAR	SHEET NO	TOTAL SHEETS
MASS.	1957	120	139

GRADING, DRAINAGE STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.



In Charge of L.W.S.
Made by L.S.
Traced by
checked by O.S.

**ARTHUR V. SHERIDAN EXPRESSWAY
UNDERPASS AT WESTCHESTER AVENUE
BAR REINFORCEMENT
PLACING DIAGRAM FOR WEST ABUTMENT**

DWG. DATE	SCALE: AS SHOWN	DATE	SHEET NO
CLARKE & RAPUANO NEW YORK, N.Y.		12-27-57	120

ENT-112ERS

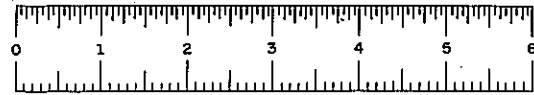
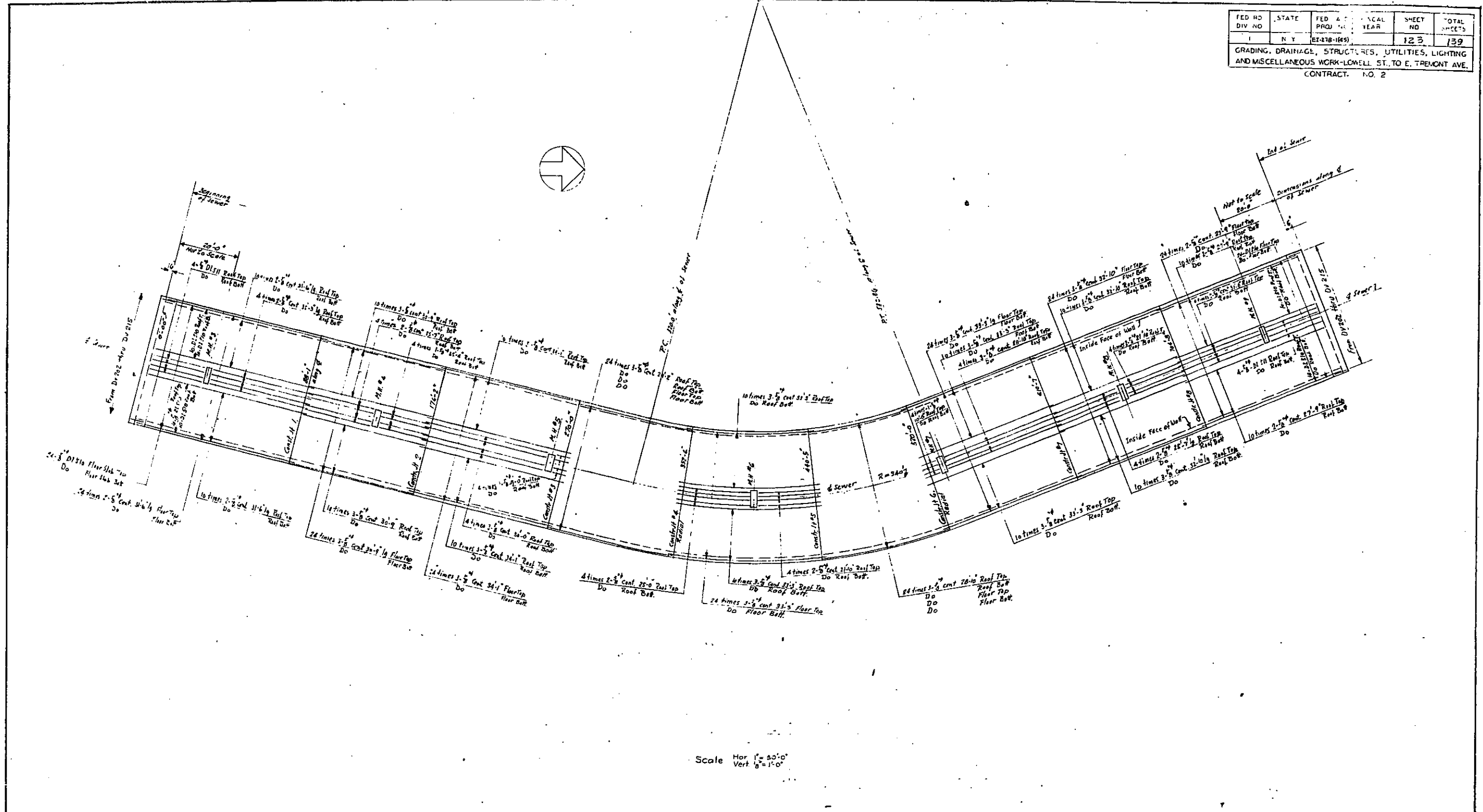


PLATE 60-1

FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EE-178-1(45)		123	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2



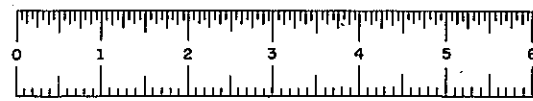
Scale Hor. 1" = 40'-0"
Vert. 1/8" = 1'-0"

IN CHARGE OF D. O'B.
MADE BY L. Sas
TRACED BY
CHECKED BY K. T. W.

ARTHUR V. SHERIDAN EXPRESSWAY
SEWER ALTERATION AT E 172 STREET
BAR REINFORCEMENT PLACING DIAGRAM

DWG. NO.	SCALE	DATE	SHEET NO.
28	AS SHOWN	12-27-57	123

CLARKE & RAPUANO
NEW YORK, N. Y. ENGINEERS



FIASE 60-1

ACCESS G VIADUCT (cont)

NEW RAMPS AT E174 STREET BRIDGE (cont)

DETAILS FOR BARS SHOWN ON SHEET NO. 101, 102, 106

DETAILS FOR BARS SHOWN ON SHEET NO. 59B, 59E

DETAILS FOR BARS SHOWN ON SHEET NO. 59B, 59E

Mk.	Size	Length	No. Req.	Type	Detail Dimensions											Location	Mk.	Size	Length	No. Req.	Type	Detail Dimensions											Location	Mk.	Size	Length	No. Req.	Type	Detail Dimensions											Location
					A	B	C	D	E	F	G	H	K	A	B							C	D	E	F	G	H	K	A	B	C	D							E	F	G	H	K							
					SLAB (cont)																Wall Stem																	7(S) 7(N) 8(S) 8(N) 7(S) 7(N) 8(S) 8(N) 8(N) 8(S) 8(N) 7(S) 7(N) 2(S) 2(S) 2(N) 4(S) 4(N) 5(S) 5(N) 21(S) 21(N) 22(S) 21(N) 10(S) 10(N) 10(S) 10(N) Stirrups 436(S) 130(N) Lampost 6(S) 6(N)												
					PILES																PIERS																	PIERS												
					NEW RAMPS AT E. 174 STREET BRIDGE																NEW RAMPS AT E. 174 STREET BRIDGE																	NEW RAMPS AT E. 174 STREET BRIDGE												

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N Y	62-278-1(45)	125	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK ADJACENT ST. TO E. TREMONT AVE

Note: For Bar Types see DWG. DL34
(N) refers to North Ramp
(S) refers to South Ramp

In charge of: D. D'ERIAN
Made by: L.S.
Traced by: K.H.
Checked by: F.M.

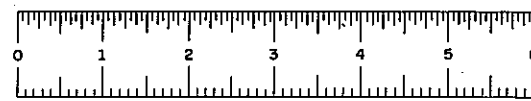
Note: Bar Marks G136-G149 (incl), G161, G328, G329, G430, G444, G523-G549 (incl)
A116, A117, A134, A135, A137, A139, A152-A154 (incl) A308, A321 omitted.

ARTHUR V. SHERIDAN EXPRESSWAY
ACCESS G VIADUCT AND
NEW RAMPS AT E. 174 STREET BRIDGE

BAR LIST

DWG. BL 35	SCALE None	DATE 12-27-57	SHEET NO. 125
CLARKE RAPANO		ENGINEER	

NEW YORK, N. Y.



FIASE 60-1

SHEET NO 126-130

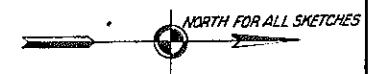
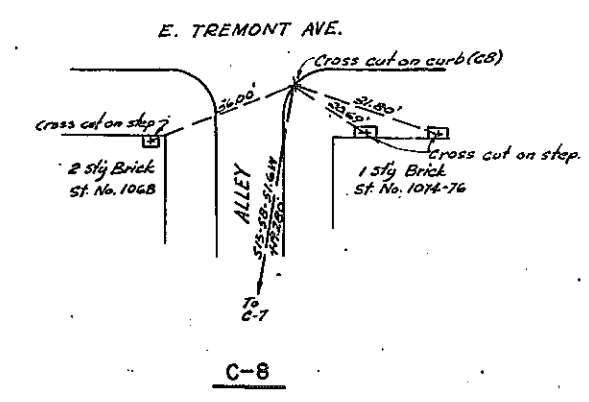
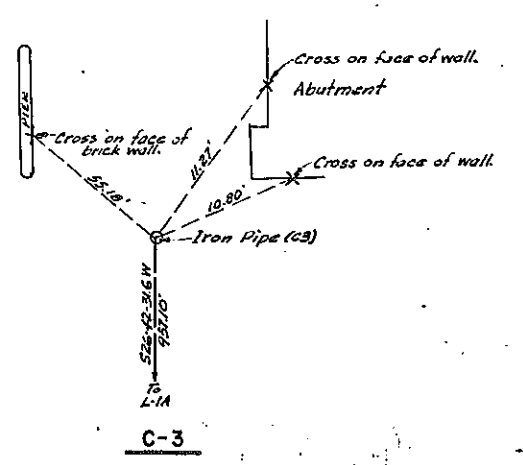
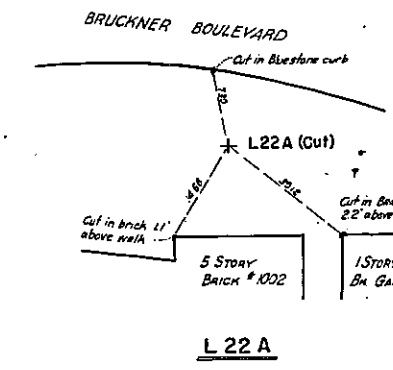
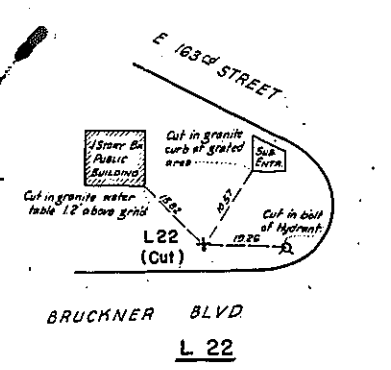
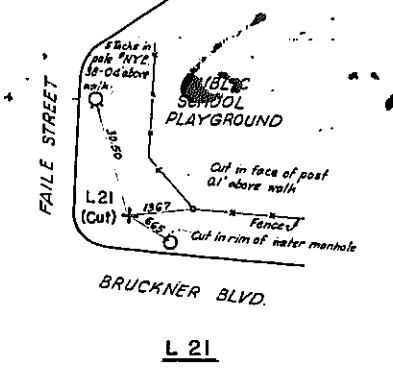
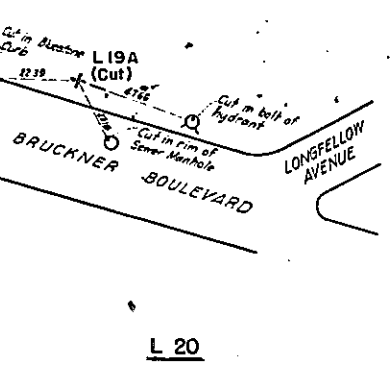
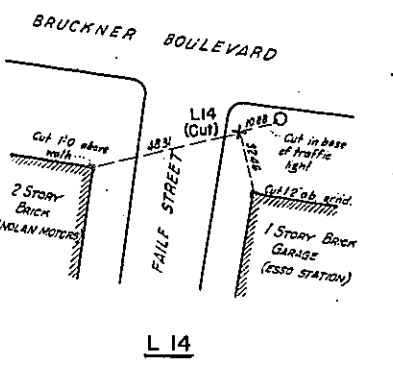
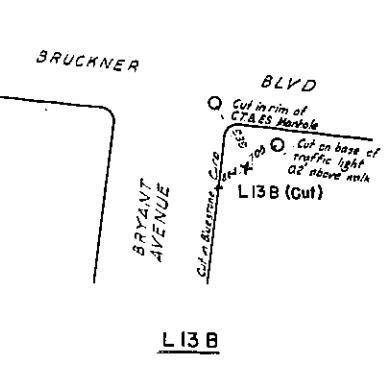
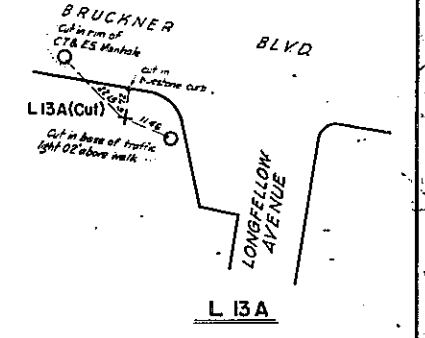
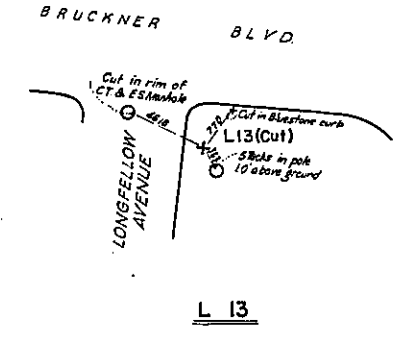
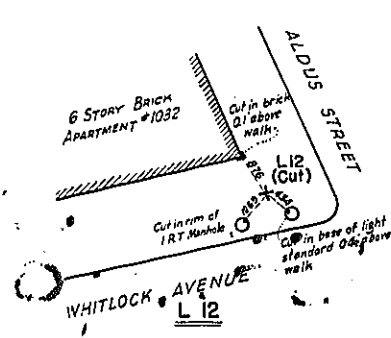
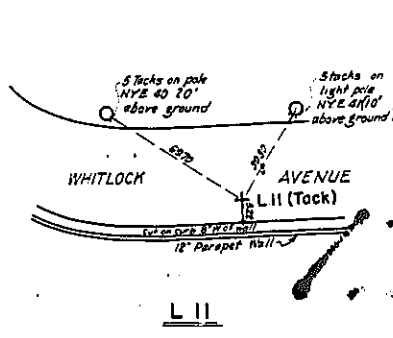
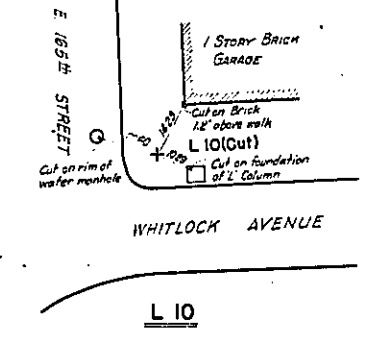
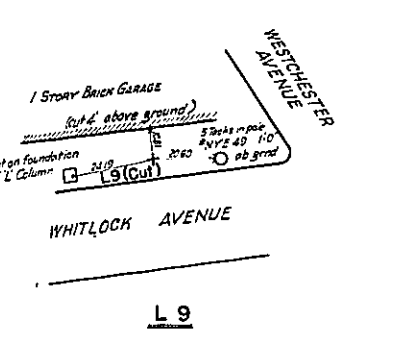
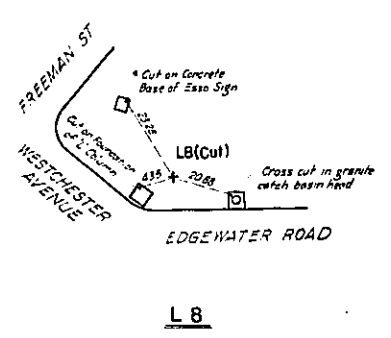
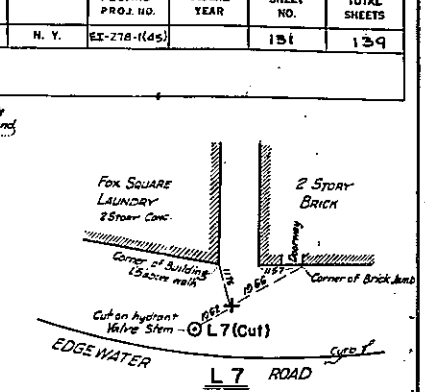
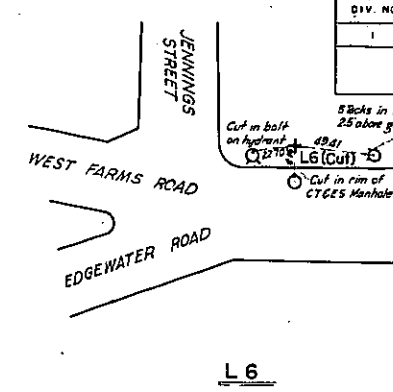
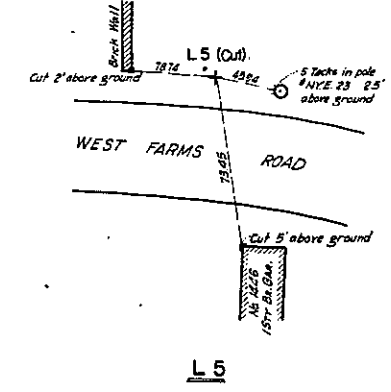
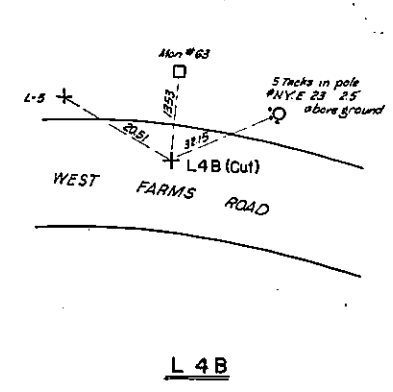
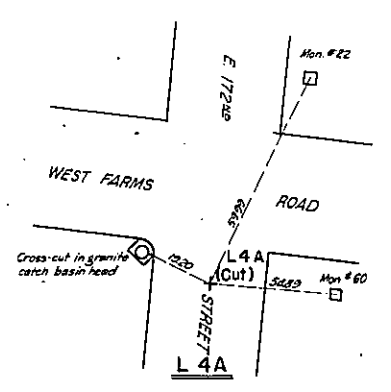
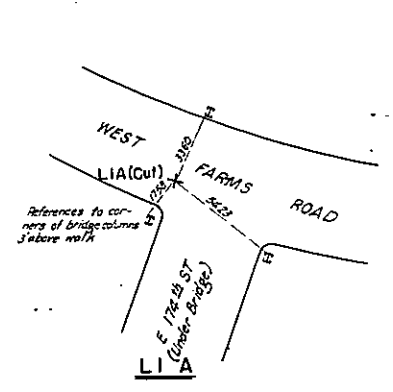
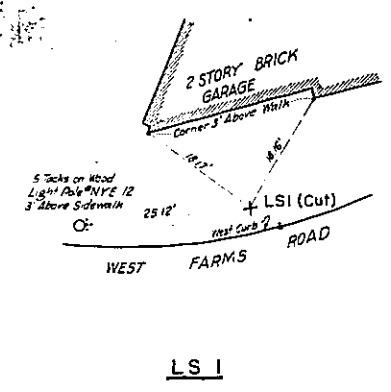
FIASE 60-1

NOT IN CONTRACT



FIASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EX-278-(45)		131	139



In charge of *F. F. ...*
 Made by *J. H. ...*
 Traced by *J. H. ...*
 Checked by *F. F. ...*

Recommended by

Revised 10-1-56

ARTHUR V. SHERIDAN EXPRESSWAY

STAKE-OUT DATA

TRAVERSE POINT REFERENCES

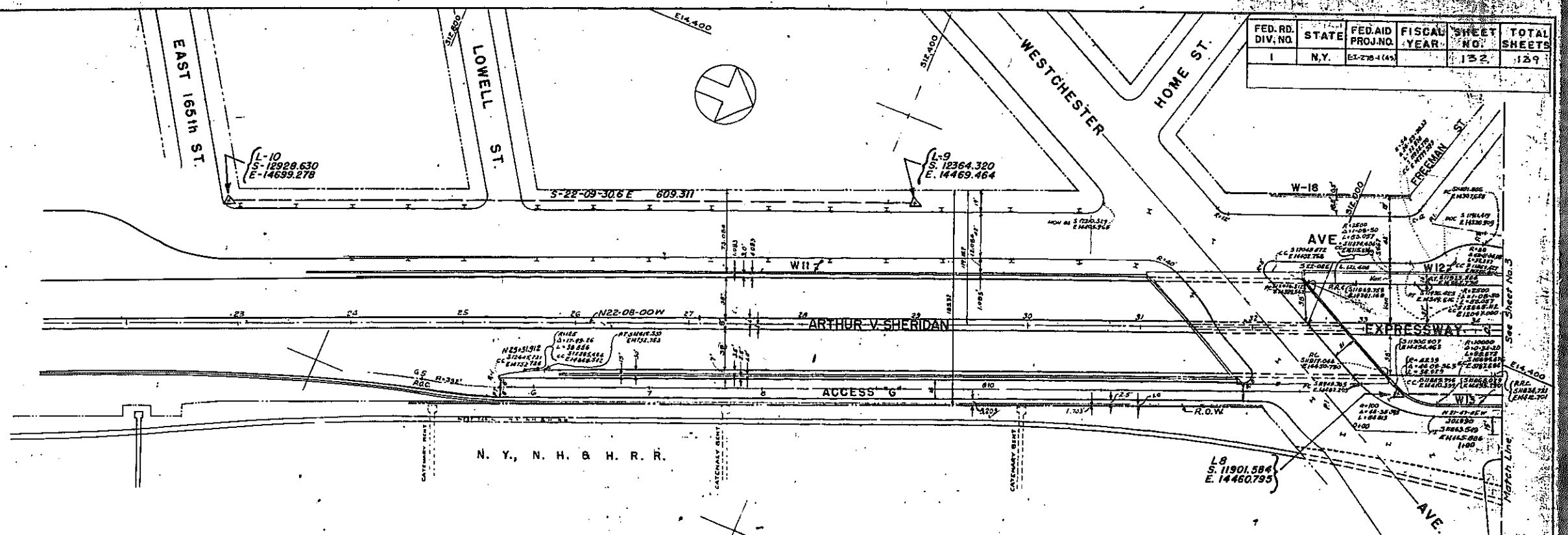
SCALE	DATE	SHEET NO.
	June 30, 1947	131

CLARKE & RAPUANO
 NEW YORK, N. Y.



FIASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EX-278-1(4)		132	129



STAKE-OUT DATA

FROM MONT. OR TRAVERSE PT. DESIGNATION	TO ALIGNMENT POINT DESIGNATION	COORDINATES SOUTH EAST	RESULTANT BEARING DIST.
L-10	PT. E 25+00	12928.630 14659.278	S 129° 28' 30" E 609.311
L-9	PT. E 25+00	12364.320 14469.464	S 123° 09' 30" E 609.311
L-8	PT. E 25+00	11901.584 14460.795	S 119° 01' 58" E 609.311

EXPRESSWAY

L.C.	STATION	MARKER	COORDINATES SOUTH EAST
L-10	25+00	MARKER	12928.630 14659.278
L-9	25+00	MARKER	12364.320 14469.464
L-8	25+00	MARKER	11901.584 14460.795

CENTER LINE EXPRESSWAY

L.C.	STATION	MARKER	COORDINATES SOUTH EAST
L-9	25+00	MARKER	12364.320 14469.464
L-10	25+00	MARKER	12928.630 14659.278

ACCESS 'G'

L.C.	STATION	MARKER	COORDINATES SOUTH EAST
L-10	25+00	MARKER	12928.630 14659.278
L-9	25+00	MARKER	12364.320 14469.464
L-8	25+00	MARKER	11901.584 14460.795

WHITLOCK AVENUE

L.C.	STATION	MARKER	COORDINATES SOUTH EAST
L-8	25+00	MARKER	11901.584 14460.795
L-9	25+00	MARKER	12364.320 14469.464
L-10	25+00	MARKER	12928.630 14659.278

EXPRESSWAY

Alignment	Coordinates SOUTH EAST
PT. E 25+00 N 22-08-00W L 1474.326	12928.630 14659.278
PC E 39+74.326 See Sheet No. 3	11327.686 14164.814

Alignment	Coordinates SOUTH EAST
PT. E 25+00 S 39-24-18" L 68.337	12701.751 14781.175
PT. G 5+68.337 (EXP. 25+14.912)	12700.322 14397.929
N 22-08-00W L 73180.4	12700.331 14761.062
PT. E Westchester Ave G 73+00.141	11327.154 14485.305

NOTES -
1. Coordinates and Grid, South of the North property line of East 174th St, are in the West Bronx System

In Charge Of: [Signature]
Made By: JNE
Traced By: JK
Checked By: SMW

Revised 10-1-56

ARTHUR V. SHERIDAN EXPRESSWAY

STAKE-OUT DATA

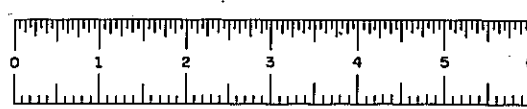
STA. 25+00 TO STA. 34+00

SCALE: 1" = 40'

DATE: June 30, 1957

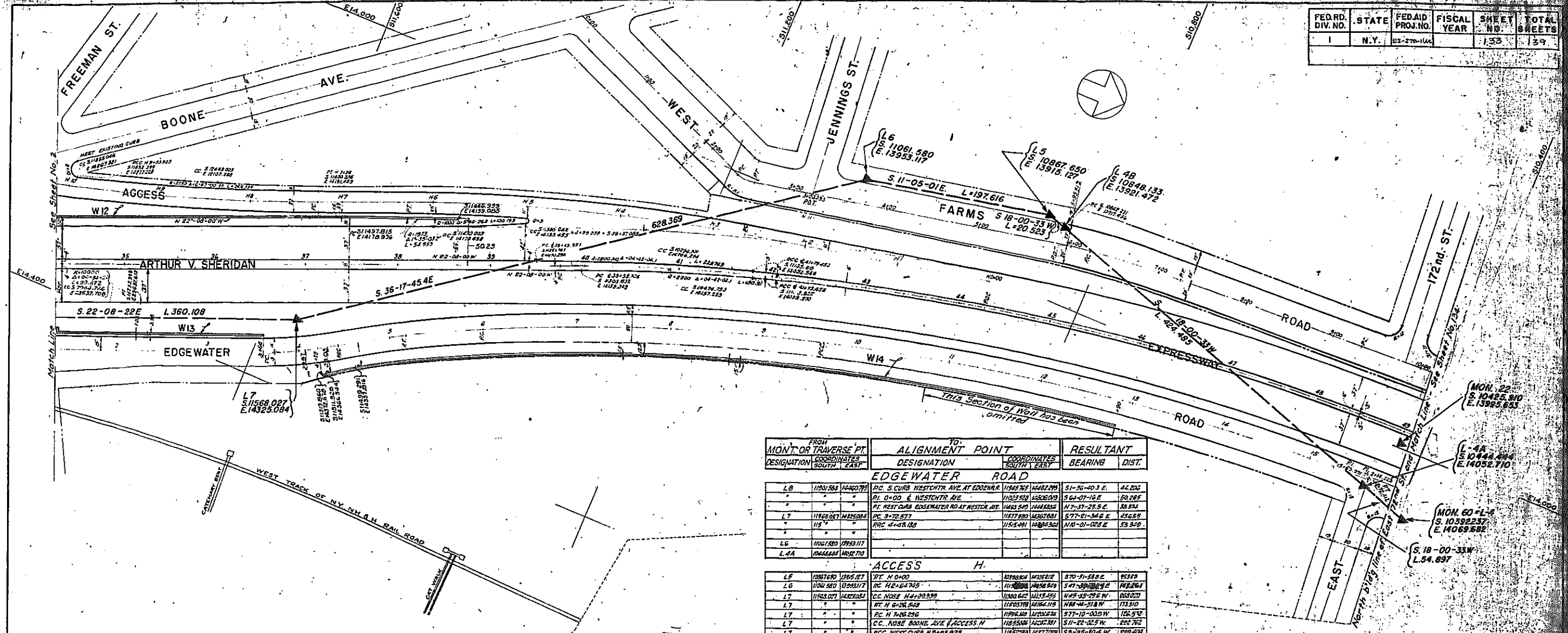
SHEET NO. 132

ENGINEERS: CLARKE & RAFFANO



FIASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	63-270-166		133	139



FROM MONT. OR TRAVERSE PT. DESIGNATION	TO ALIGNMENT POINT DESIGNATION	COORDINATES SOUTH, EAST	RESULTANT BEARING	DIST.
EDGEWATER ROAD				
L6	PC S CURB WESTCHTR AVE AT EDGEWATER	11846.927 14661.999	S1-56-03 E	44.205
	PI 0+00 & WESTCHTR AVE	11823.928 14662.000	S64-07-18 E	20.285
	PI WEST CURB EDGEWATER RD AT WESTCHTR AVE	11843.540 14662.000	N7-37-25.5 E	38.934
L7	PC S 72.577	11877.880 14667.081	S77-31-34.6 E	45.658
	PRC 4+01.000	11854.941 14662.360	N10-01-02.8 E	53.340
L6	11846.927	14661.999		
L6A	11846.927	14661.999		

FROM MONT. OR TRAVERSE PT. DESIGNATION	TO ALIGNMENT POINT DESIGNATION	COORDINATES SOUTH, EAST	RESULTANT BEARING	DIST.
ACCESS H.				
L8	PT H 0+00	11846.927 14661.999	S70-51-58.8 E	95.319
L7	PC H 2+62.745	11846.927 14661.999	S47-39-39.8 W	70.261
L6	CC NOSE H 4+39.939	11846.927 14661.999	N49-33-27.6 W	103.027
L7	PI H 4+26.248	11846.927 14661.999	N87-46-31.8 W	73.310
L7	PC H 4+26.248	11846.927 14661.999	S77-10-00.0 W	126.542
L7	CC NOSE BOONE AVE (ACCESS H)	11846.927 14661.999	S11-21-32.5 W	202.762
L7	PRC WEST CURB H 4+39.939	11846.927 14661.999	S9-35-30.4 W	202.409
L8	PI H 4+39.939	11846.927 14661.999	N84-05-52.4 E	164.697
L8	PI H 4+39.939 & FREEMAN ST	11846.927 14661.999	S 78-35-34.6 W	154.692

FROM MONT. OR TRAVERSE PT. DESIGNATION	TO ALIGNMENT POINT DESIGNATION	COORDINATES SOUTH, EAST	RESULTANT BEARING	DIST.
WEST FARMS ROAD				
L8	PC S CURB	11846.927 14661.999	S70-54-06.6 E	28.958
L8	PI 2+60.407	11846.927 14661.999	S80-3-32.8 E	116.913
L8	PC S 98.518	11846.927 14661.999	N 5-51-48.7 E	36.068
L8	PC WEST CURB STA 5+48.500	11846.927 14661.999	N 9-11-23.8 E	85.524
L8				
L8A	11846.927 14661.999			

FROM MONT. OR TRAVERSE PT. DESIGNATION	TO ALIGNMENT POINT DESIGNATION	COORDINATES SOUTH, EAST	RESULTANT BEARING	DIST.
EXPRESSWAY				
L7	PC EAST CURB	11846.927 14661.999	N 60-12.8 W	176.191
L7	PC HALL WEST CURB STA 5+48.500	11846.927 14661.999	N 31-35-38.8 W	269.330
L7	PC S 30+74.306	11846.927 14661.999	N 83-41-28.8 W	88.236
L7	PC HALL EAST CURB & STA 35+98.700	11846.927 14661.999	N 53-04-56.8 N	322.047
L6	PC HALL WEST CURB & STA 41+78.452	11846.927 14661.999	N 63-01-01.6 E	187.800
L6	PRC HALL EAST CURB & STA 41+78.452	11846.927 14661.999	N 63-30-21.2 E	167.187

ALIGNMENT	COORDINATES South	East
PC 2+39+74.326	11327.686	12164.814
R 2500 Δ 10-25-20 L 454.755 cc	10385.778	16480.588
PC 4+24+29.081 H 0+00 (18 LCH)	10893.221	14032.629
R 2500 Δ 17-26-40 L 761.158		
PT 5+19+90.239	10136.031	13993.094

ALIGNMENT	COORDINATES South	East
PI 0+00 & Westchester Ave	11923.523	14506.019
R 21-47-45W L 372.577		
PC 3+72.577	11577.580	14367.681
R 315 Δ 12-50-36.82 L 706.111 cc	11694.540	14075.192
PRC 4+13.183	11515.271	14334.362
R 457 Δ 9-22-57.0 L 74.886 cc	11255.728	14710.359
PT 5+18.024	11,490.720	14,297.046
N 25-15-24W 81.901		
PC 5+99.925	11,376.648	14,262.101
R 2136.500 Δ 9-46-35.2 L 364.792	10,465.052	16,194.360
P.C.C. 9+64.479	11,035.304	14,135.368
R 2432.500 Δ 18-09-42.84 L 601.492	10,348.780	16,480.585
P.T. 15+65.971	10,441.778	14,047.725

ALIGNMENT	COORDINATES South	East
PI 0+00 & Boone St	11407.977	13907.250
N 22-56-32.7 E L 240.265		
PC 2+40.265	11186.718	14009.987
R 344 Δ 33-56-32.7 L 204.42 cc	11175.464	13928.596
PT 2+60.407	11166.977	14002.971
N 11-00-00 W L 59.600		
PT 3+20.035 & Jennings St	11108.446	13991.594
N 11-00-00 W L 275.430		
PT 5+05.513	10838.027	13939.030
N 11-00-00.0 W 27.176		
PC 6+22.689	10,811.350	13,933.245
R 712.263 Δ B-25-07.8 L 104.697	10,575.448	14,633.022
PT 7+27.346	10,707.521	13,921.481
N 2-34-52.2W 206.165		
PC 9+33.514	10,501.562	13,916.196
R 2571 Δ 8-18-52.2 L 373.092	10,305.718	16,460.588
PT 13+06.606	10,128.338	13,927.449
N 5-44-00.0E 169.397		

NOTES -
 1 - Coordinates and Grid, South of the North property line of East 174th St, are in the West Bronx System.

In Charge Of: N.E.F.
 Made By: J.SANDREV
 Typed By: J.L.K.
 Checked By: S.M.W.

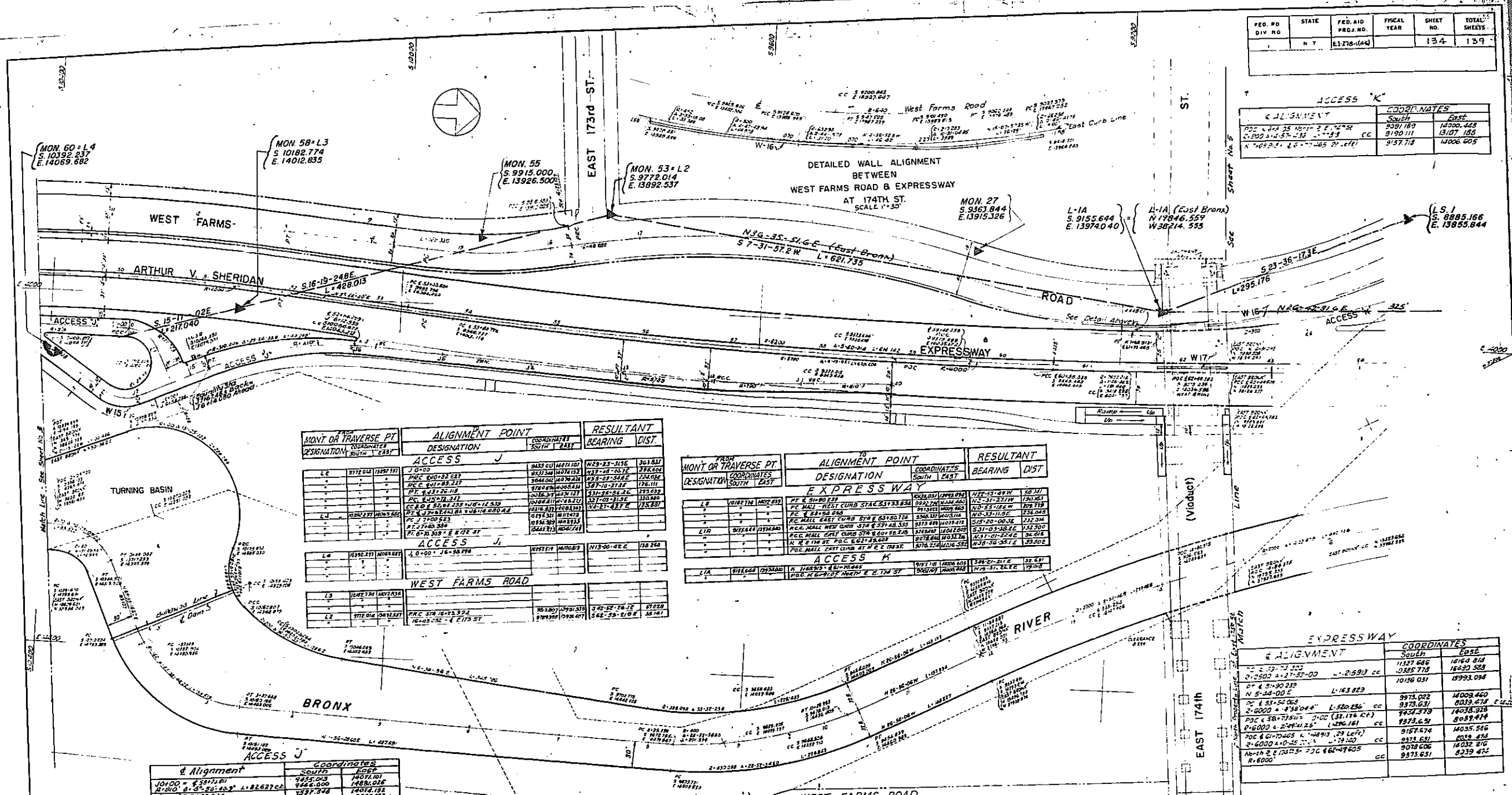
ARTHUR V. SHERIDAN EXPRESSWAY
 STAKE-OUT DATA

FIASE 60-1



FED. NO	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIV NO		PRG. NO.	YEAR	NO.	SHEETS
1	NY	ET-218-(64)		134	139

ALIGNMENT	COORDINATES	
	South	East
PCC L 104 25 1044' 2 E. 72° 52'	5091.169	14000.443
C-200 2 10-57-30 -11° 18'	5190.111	13107.186
K 104 25 2 E 72° 52' 21' left	5157.718	14006.205



MON. OR TRANSVERSE PT. DESIGNATION	ALIGNMENT POINT DESIGNATION	COORDINATES SOUTH EAST	RESULTANT BEARING	DIST.
L 2	W 174 00	5197.100	1397.216	52.857
L 3	W 174 00	5197.100	1397.216	52.857
L 4	W 174 00	5197.100	1397.216	52.857

MON. OR TRANSVERSE PT. DESIGNATION	ALIGNMENT POINT DESIGNATION	COORDINATES SOUTH EAST	RESULTANT BEARING	DIST.
L 1	W 174 00	5197.100	1397.216	52.857
L 2	W 174 00	5197.100	1397.216	52.857
L 3	W 174 00	5197.100	1397.216	52.857

ALIGNMENT	COORDINATES	
	South	East
PCC L 104 25 1044' 2 E. 72° 52'	5091.169	14000.443
C-200 2 10-57-30 -11° 18'	5190.111	13107.186

ALIGNMENT	COORDINATES SOUTH	COORDINATES EAST
J 10 00	5197.100	1397.216
PCC L 104 25 1044' 2 E. 72° 52'	5091.169	14000.443
C-200 2 10-57-30 -11° 18'	5190.111	13107.186

ALIGNMENT	COORDINATES SOUTH	COORDINATES EAST
J 10 00	5197.100	1397.216
PCC L 104 25 1044' 2 E. 72° 52'	5091.169	14000.443

ALIGNMENT	COORDINATES SOUTH	COORDINATES EAST
J 10 00	5197.100	1397.216
PCC L 104 25 1044' 2 E. 72° 52'	5091.169	14000.443

NOTES-
1-Coordinates and Grid, South of the North property line of East 174th St, are in the West Bronx System.
2-Coordinates and Grid, North of the North line of East 174th St, are in the East Bronx System

Revised 10-1-56

ARTHUR V. SHERIDAN EXPRESSWAY

STAKE-OUT DATA

STA. 49+00 TO END OF CONTRACT

DATE: June 30, 1947

SCALE: 1" = 50'

CLARK B. NAPOLANO

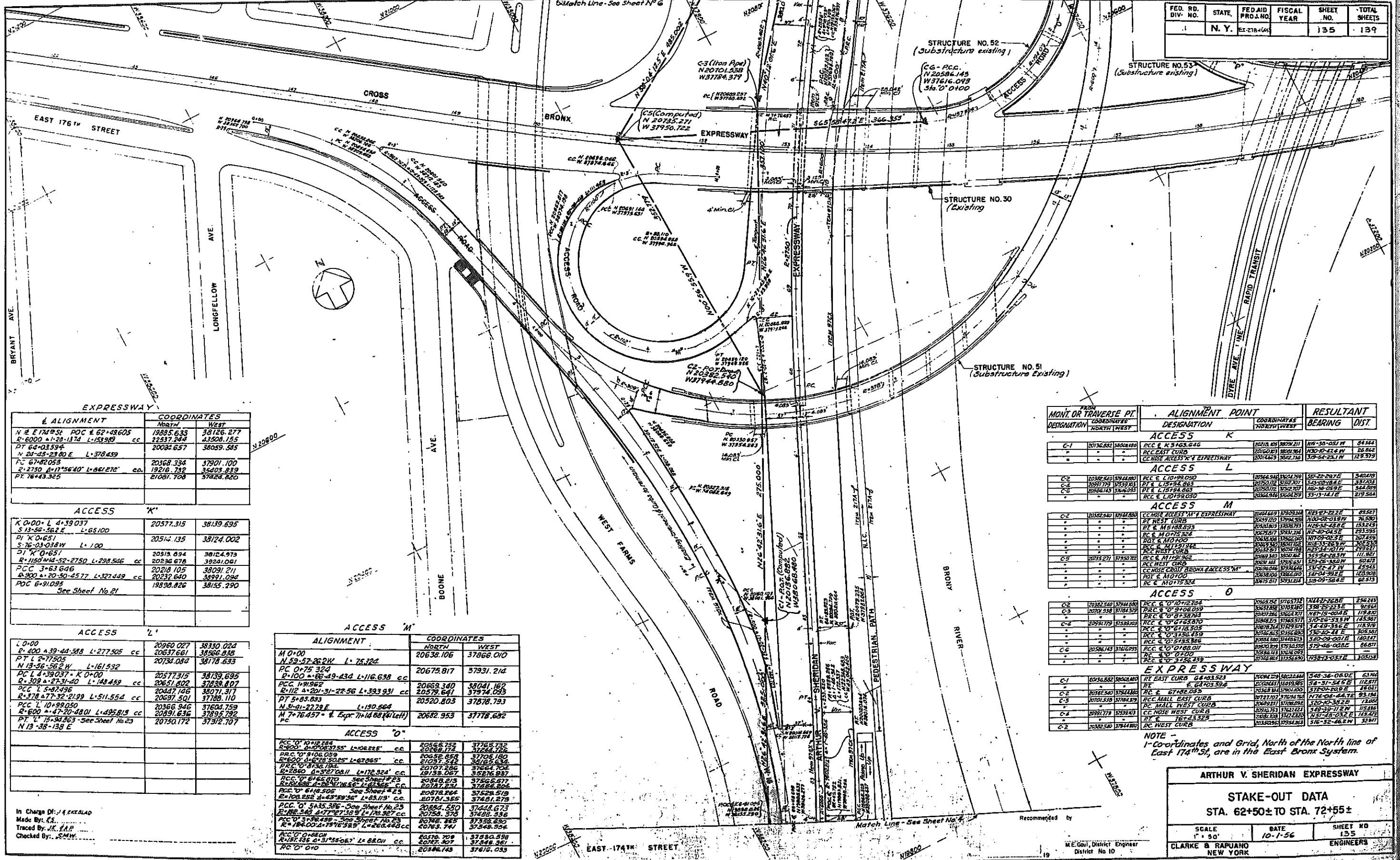
NEW YORK, N.Y.

In charge of F. P. ...
Made by J. E. ...
Traced by ...
Checked by ...



FIASE 60-1

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	EX-218-045		135	139



ALIGNMENT	COORDINATES	
	NORTH	WEST
N 4° 17' 51" POC & 62° 49' 05" cc	19885.633	38126.277
R 6000 1-28-1374 L 153889	22537.244	43508.155
PT 64+03.594	20024.657	36059.585
N 24° 45' 23" 80 E L 378459		
FC 67+82.053	20368.334	37901.100
R 2750 1-17° 56' 10" L 661272 cc	19216.732	35403.832
PT 76+43.325	21081.708	37824.820

ACCESS 'K'		
K 0+00 L 4+39.037	20577.315	38139.695
S 13° 56' 58.2 E L 65100		
D 1' K 0+651	20514.135	38124.002
S 76° 03' 03.8 W L 100		
D 1' K 0+657		
R 1180 1-44-52-2750 L 298546 cc	20513.694	38124.973
PCC 3+63.646	20218.105	38091.211
R 900 1-20-50-4577 L 327449 cc	20232.640	38091.094
PDC 6+91.095	19898.826	38135.290

ACCESS 'L'		
L 0+00	20960.027	38330.024
R 400 1-39-44-588 L 277505 cc	20637.661	38566.838
PT L 2+77.505	20734.084	38178.693
N 18° 56' 56.2 W L 161532		
PC L 4+39.037 K 0+00	20577.315	38139.695
R 308 1-27-31-40 L 148459 cc	20651.602	37828.807
PC L 5+97.496	20447.146	38071.317
R 378 1-7-52-2199 L 511554 cc	20697.501	37188.110
PC L 7+10+99.050	20366.946	37604.759
R 800 1-42-50-4801 L 495815 cc	20891.636	37899.792
PT L 15+94.863 - See Sheet No 23	20750.172	37912.707
N 13° 38' 13.8 E		

ALIGNMENT		
M 0+00	20638.106	37866.010
N 52° 57' 26.2 W L 75324		
PC 0+75.324	20675.817	37931.214
R 100 1-66-49-434 L 116.638 cc		
PCC 1+91.962	20669.340	38041.162
R 112 1-201-31-22.56 L 393.931 cc	20579.641	37974.093
PT 5+85.893	20520.803	37878.793
N 3° 41' 27.79 E L 190.964		
M 7+76.457 E. Exp. 7+14.88 (left)	20682.953	37778.632
PC		

ACCESS 'O'		
ACC 'O' 1-11-1884	20566.752	37768.792
R 600 1-10-08-3755 L 108235 cc	20288.175	37244.176
PRC 'O' 1-10-08-059	20452.658	37705.180
R 200 1-16-20-3025 L 62265 cc	21037.542	38165.634
PRC 'O' 1-16-20-194	20707.216	37464.702
R 2860 1-3-38-0811 L 172.324 cc	19138.067	35276.987
PRC 'O' 1-16-20-070	20448.213	37566.677
R 150 1-16-20-070 L 16.966 cc	20717.231	37488.806
PRC 'O' 1-16-20-070	20878.254	37528.519
R 108 1-16-20-070 L 43.115 cc	20781.365	37481.275
PCC 'O' 1-16-20-070 - See Sheet No 23	20884.580	37444.673
R 108 1-16-20-070 L 178.327 cc	20758.375	37488.556
PRC 'O' 1-16-20-070 - See Sheet No 23	20788.885	37338.690
R 184 1-16-20-070 L 266.498 cc	20763.741	37548.594
ACC 'O' 1-16-20-070	20570.709	37580.599
R 187 1-16-20-070 L 31.580 cc	20787.307	37548.361
ACC 'O' 1-16-20-070	20584.743	37616.093

FROM	TO	ALIGNMENT	RESULTANT	
			BEARING	DIST.
ACCESS 'K'				
C-1	20368.334	37901.100	20513.694	38124.973
ACCESS 'L'				
C-2	20960.027	38330.024	20577.315	38139.695
C-3	20637.661	38566.838	20734.084	38178.693
C-4	20577.315	38139.695	20513.694	38124.973
C-5	20447.146	38071.317	20697.501	37188.110
C-6	20366.946	37604.759	20891.636	37899.792
C-7	20750.172	37912.707	20577.315	38139.695
ACCESS 'M'				
C-8	20638.106	37866.010	20675.817	37931.214
C-9	20669.340	38041.162	20579.641	37974.093
C-10	20520.803	37878.793	20520.803	37878.793
C-11	20682.953	37778.632	20682.953	37778.632
ACCESS 'O'				
C-12	20566.752	37768.792	20288.175	37244.176
C-13	20452.658	37705.180	21037.542	38165.634
C-14	20707.216	37464.702	19138.067	35276.987
C-15	20448.213	37566.677	20717.231	37488.806
C-16	20878.254	37528.519	20781.365	37481.275
C-17	20884.580	37444.673	20758.375	37488.556
C-18	20788.885	37338.690	20763.741	37548.594
C-19	20570.709	37580.599	20787.307	37548.361
C-20	20584.743	37616.093	20584.743	37616.093
EXPRESSWAY				
C-21	20566.752	37768.792	20288.175	37244.176
C-22	20452.658	37705.180	21037.542	38165.634
C-23	20707.216	37464.702	19138.067	35276.987
C-24	20448.213	37566.677	20717.231	37488.806
C-25	20878.254	37528.519	20781.365	37481.275
C-26	20884.580	37444.673	20758.375	37488.556
C-27	20788.885	37338.690	20763.741	37548.594
C-28	20570.709	37580.599	20787.307	37548.361
C-29	20584.743	37616.093	20584.743	37616.093

NOTE - 1-Coordinates and Grid, North of the North line of East 174th St, are in the East Bronx System.

In Charge By: J. K. EKLAD
Made By: E.S.
Traced By: J.K. EKLAD
Checked By: S.M.W.

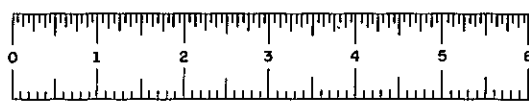
ARTHUR V. SHERIDAN EXPRESSWAY

STAKE-OUT DATA
STA. 62+50± TO STA. 72+55±

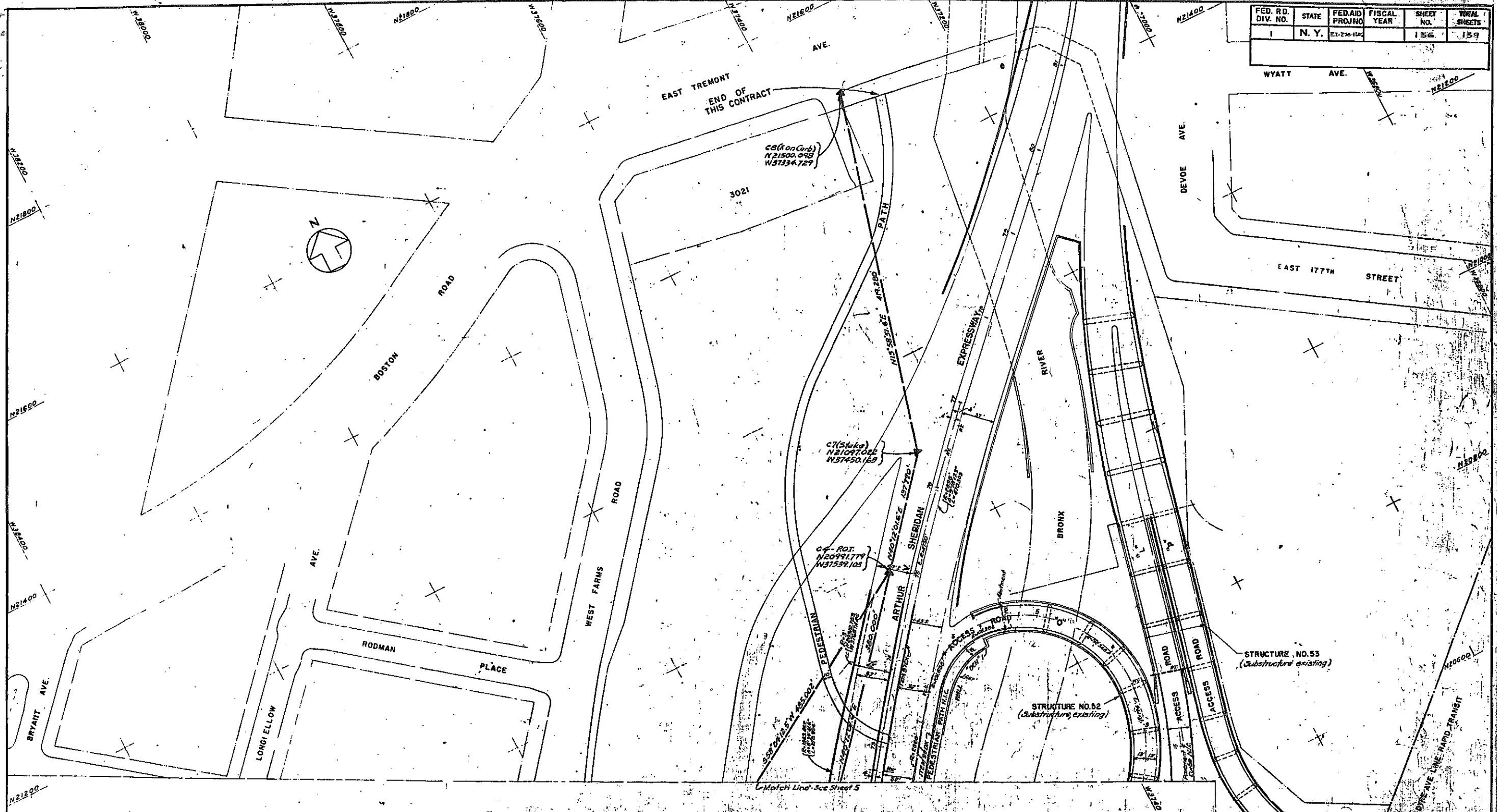
SCALE	DATE	SHEET NO
1" = 50'	10-1-56	155

CLARKE & RAJAHU ENGINEERS
NEW YORK

Recommended by
M.E. Gouli, District Engineer
District No. 10



FIASE 60-1

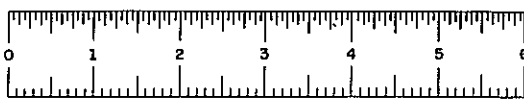


FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	ET-216-145		156	159

In Charge Of: *S. J. Lee*
 Made By: *E. R.*
 Traced By: *K. G. P.*
 Checked By: *S. M. W.*

NOTE
 1-Coordinates and Grid North of the North line of East 177th St. are in the East Bronx System.

ARTHUR V. SHERIDAN EXPRESSWAY		
STAKE-OUT DATA		
STA. 72+55 ± TO STA. 75+0 ±		
SCALE 1" = 50'	DATE 10-1-1956	SHEET NO. 156
CLARKE & RAPLIANO NEW YORK		ENGINEERS

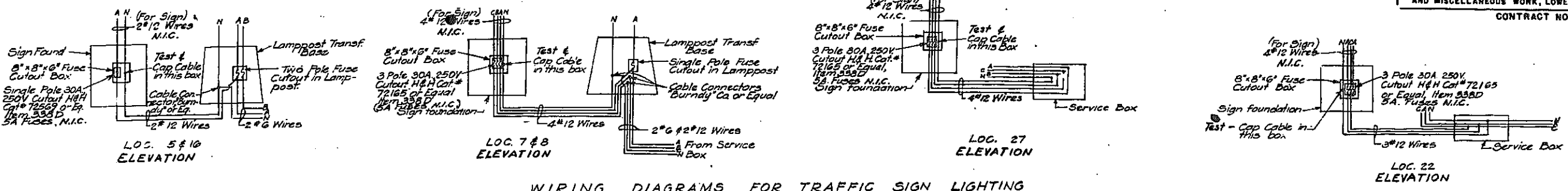


FIASE 60-1

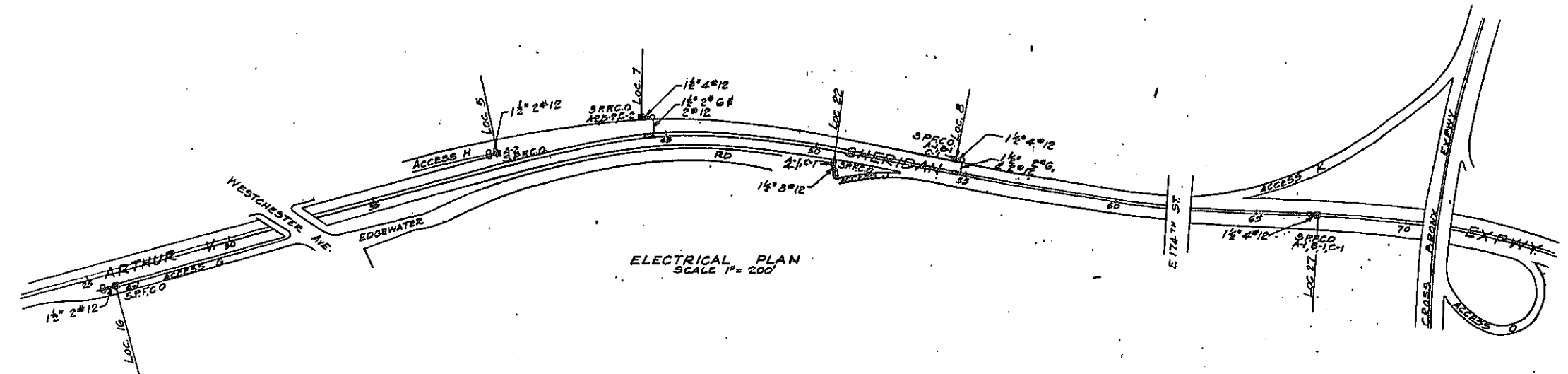
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FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	EI-278-1(45)	137	139

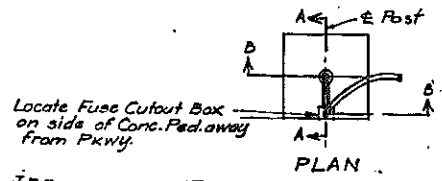
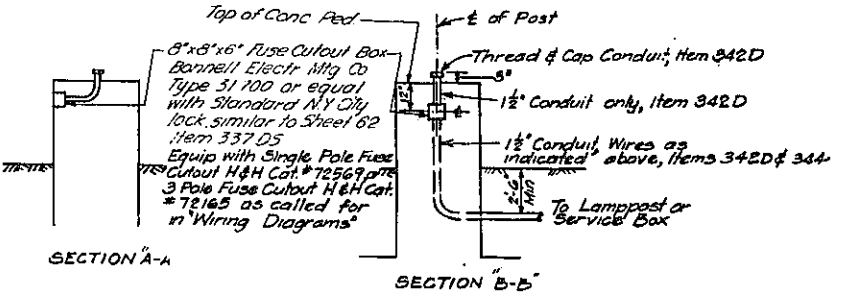
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK, LOWELL ST. TO E.TREMONT AVE.
CONTRACT NO. 2



WIRING DIAGRAMS FOR TRAFFIC SIGN LIGHTING



ELECTRICAL PLAN SCALE 1" = 200'



TRAFFIC SIGN FOUNDATION ELECTRICAL DETAILS

NOTES
1. All Electrical Work shown shall be done in accordance with the D.W.S.G. & E. requirements & specifications.

LEGEND

Loc. 8	Traffic Sign foundation with Fuse Cut-Out Box
1 1/2" 4*12	Conduit & Cable - Figure indicate size of conduit & size of wire, items 342D & 344
o	Single Arm Lamppost
o	Twin Arm Lamppost
S.P.F.C.O.	Single Pole Fuse Cut-Out Box
o	Elec. Service Box
C-1	Phase Letter & Circuit No.

FIELD CHANGE CONTRACT FIASE 60-1 SIGN FOUNDATIONS

APPROVED
C. J. [Signature]
DATE: 12-23-60

ARTHUR V. SHERIDAN EXPRESSWAY

TRAFFIC SIGN ELECTRICAL PLAN

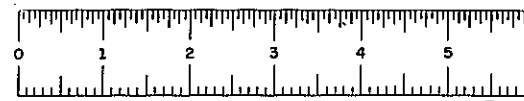
DRAWING NO. 3-15	SCALE 1" = 200'	DATE 12-23-60	SHEET NO. 137
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CLARKE & RAPUANO CONSULTING ENGINEERS & LANDSCAPE ARCHITECTS
830 3RD AVE. NEW YORK, N.Y.

In Charge of J.E.E.
Made by J.W.
Traced by J.W.
Checked by J.E.E.

Revised 8-23-61 by Shomayon Buckley & Gouf

(GEN'L CONT.) FOUNDATION WORK

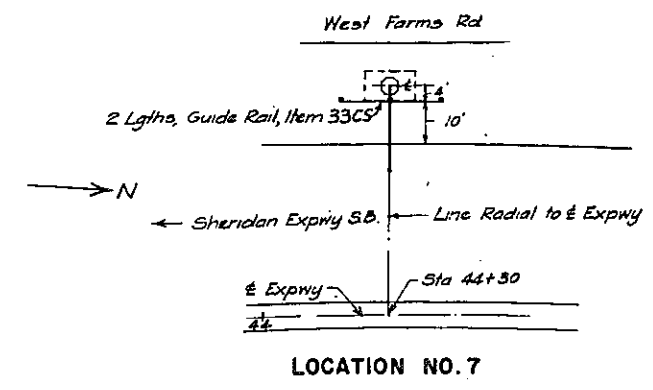


FIASE 60-1

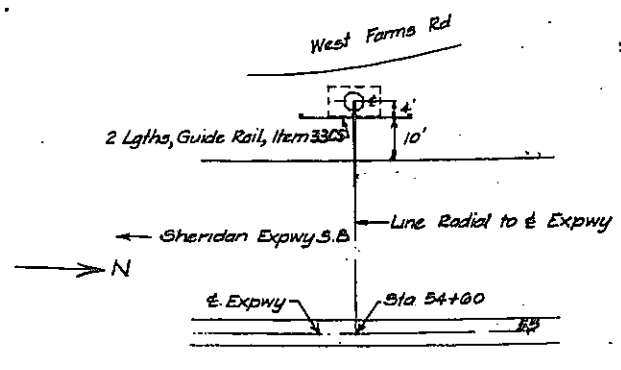
FED. RD. RES. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	E1-278-1146	138	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK, LOWELL ST. TO E. TREMONT AVE.
CONTRACT NO. 2

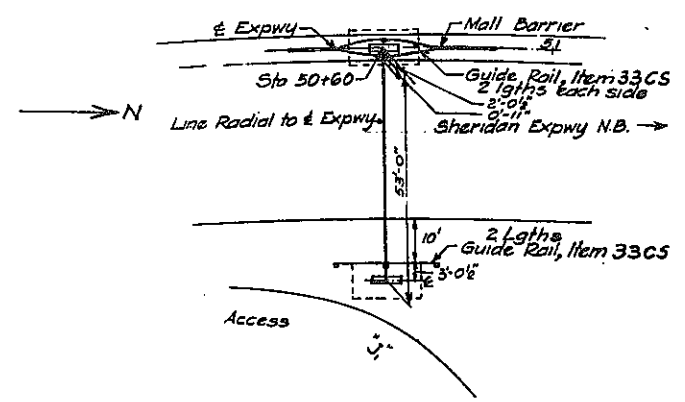
138R



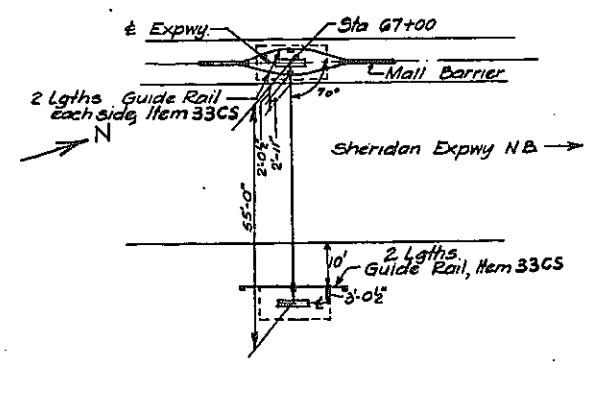
LOCATION NO. 7



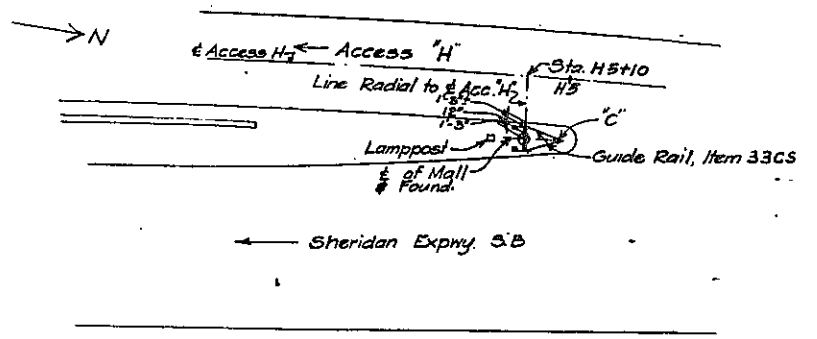
LOCATION NO. 8



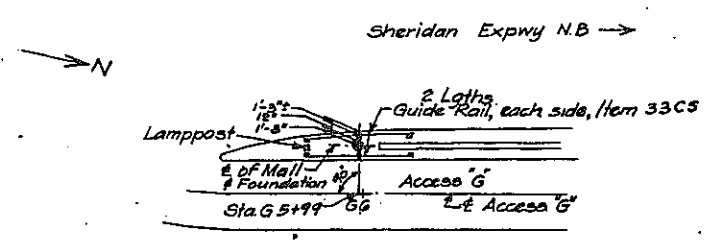
LOCATION NO. 22



LOCATION NO. 27



LOCATION NO. 5



LOCATION NO. 16

FIELD CHANGE CONTRACT FIASE 60-1 SIGN FOUNDATIONS

- NOTES
1. Guide Rail shall be Single Beam and shall conform to details as shown on N.Y.S. Std Sheet 57-17 R1
 2. "C" - Steel Cap of Approved design
 3. The top of the guide railing post shall be 25" above top of curb in front of railing.

APPROVED
[Signature]
P.E. DAN HULL
Civil Engineer (No. 21394)

ARTHUR V. SHERIDAN EXPRESSWAY

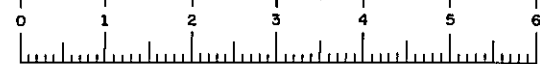
SIGN SUPPORT STRUCTURE
LOCATION PLANS

DRAWING NO. S-14	SCALE 1" = 20'	DATE 2-16-61	SHEET NO. 138
---------------------	-------------------	-----------------	------------------

CLARKE & RAPUANO
CONSULTING ENGINEERS
& LANDSCAPE ARCHITECTS
830 3RD AVE.
NEW YORK, N.Y.

In Charge of J.E.E.
Made by J.W.
Traced by J.W.
Checked by J.E.E.

Revised 3/15/61
(GEN'L CONT.) FOUNDATION WORK

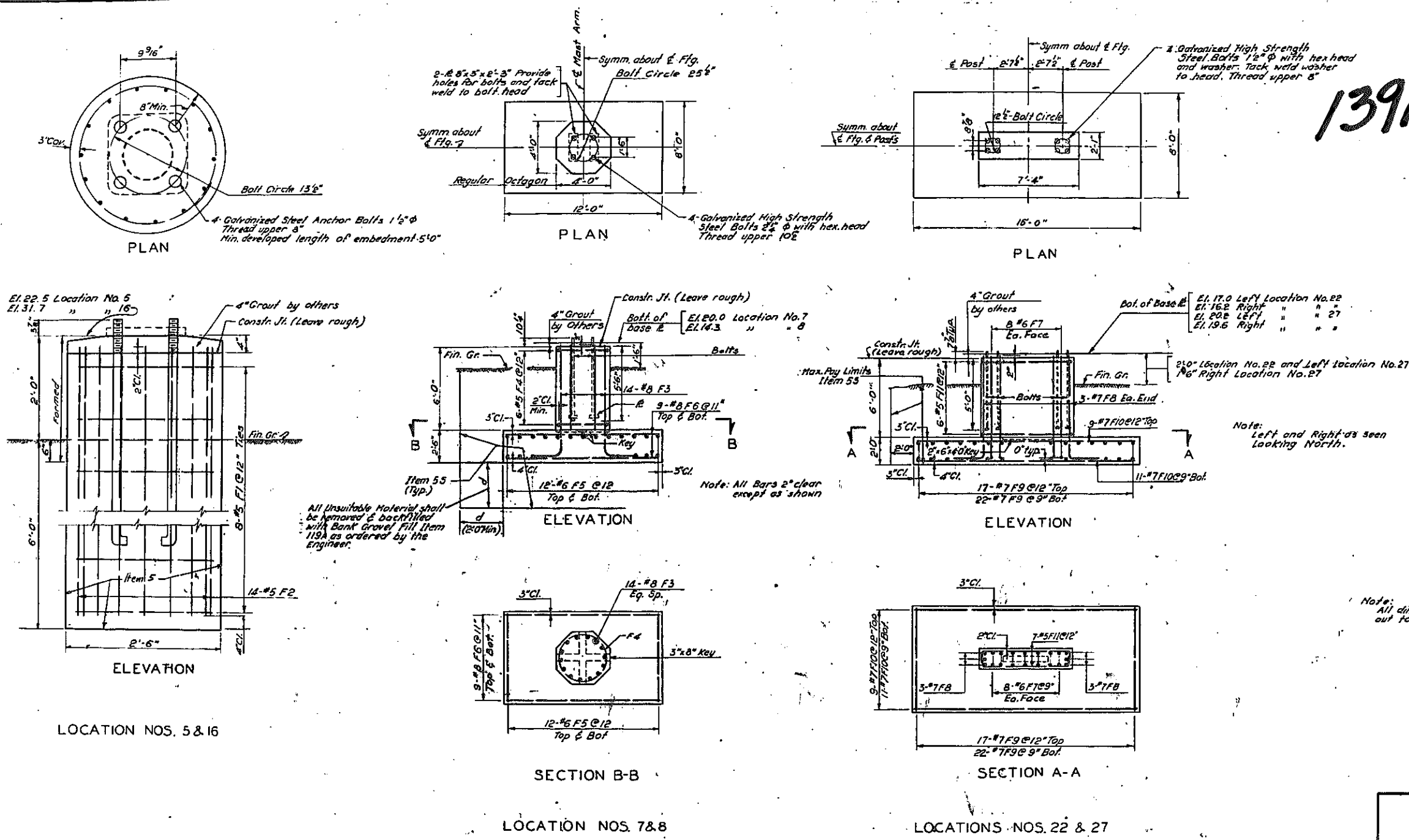


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	EZ-276-1(45)	139	139

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING, AND MISCELLANEOUS WORK - LOWELL ST. TO E TREMONT AVE.

139R

BAR LIST							
MARK	LENGTH	NO.	TYPE	DIMENSIONS			
				A	B	C	D
Locations No. 5 & 16 (Each)							
F1	7'-4"	8	IV	2'-0"			#5
F2	7'-6"	14	5/8"				#5
Locations No. 7 & 8 (Each)							
F3	9'-11"	14	II	7'-4"	1'-7"	1'-0"	#6
F4	12'-7"	6	IV	3'-0"			#5
F5	7'-6"	24	5/8"				#6
F6	11'-6"	18	5/8"				#6
Locations No. 22 & 27 (Each)							
F7	9'-3"	16	II	7'-1"	1'-2"	1'-0"	#6
F8	9'-3"	6	II	7'-1"	1'-2"	1'-0"	#7
F9	7'-6"	39	5/8"				#7
F10	15'-6"	20	5/8"				#7
F11	10'-6"	12	I	1'-9"	7'-0"		#5



Notes:

- For Design purposes the max Soil Bearing Pressure was assumed to be 2 Tons/Sq. Ft. Unsuitable soil is encountered, the footings may be changed in depth and extent if ordered by the Engineer.
- Backfill with excavated material unless the Engineer directs the use of Item 2EF-B. In either case backfill shall be deposited in horizontal layers not to exceed 8 inches in thickness and thoroughly compacted to a minimum dry density of 100% of Maximum Density as defined under 1.5 Embedments. Water shall be added in such amounts as the Engineer may consider necessary to obtain satisfactory compaction. The backfilling shall be completed immediately following the removal of forms for the pedestal. Circular footings may be placed into rock. The embedding shown on this drawing will control unless the footing penetrates a minimum of 2'-0" into rock. When footing penetrates 2'-0" into rock total embedment required is 4'-0".
- Upper Limits of Excavation to be Existing Grade or Bottom of Subgrade, whichever is lower.
- The following items shall apply: Selected Fill - Item 2EF-B Excavation Cement - Items 15-2 and 15-N Concrete - Item 12-5 Bar Reinforcement - Item 20 RR Anchor Bolts, Plates and Washers - Item 20 AZ (Anchor Bolts to have minimum tensile yield strength of 55,000 psi and an ultimate of 85,000 psi. Top 12" to be Galvanized.)
- For Electrical Details see Dwg. No. 5-13, Sh. No. 1
- For Location Plans see Dwg. No. 5-14, Sh. No. 2
- For Line Diagrams of Future Signs see Dwg. No. 5-4, Sh. No. 8
- All exposed vertical edges of concrete to be chamfered 1".

All Unsuitable Material shall be removed & backfilled with Bank Gravel Fill Item 119A as ordered by the Engineer.

Note: All Bars 2" clear except as shown

Note: Left and Right as seen Looking North.

Note: All dimensions are out to out of bar

FIELD CHANGE CONTRACT FIASE 60-1 SIGN FOUNDATIONS

APPROVED
MAY 10 1961
C.F. Blanchard
C. F. BLANCHARD
Rev. Engr. License No. 12,622

ARTHUR V. SHERIDAN EXPRESSWAY

**SIGN SUPPORT STRUCTURE
FOUNDATION DETAILS**

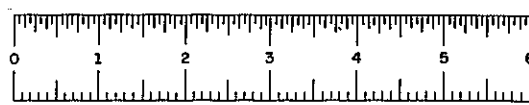
DRAWING NO.	SCALE	DATE	SHEET NO.
5-12	None	5-16-61	139

CLARKE & RAPHAEL
CONSULTING ENGINEERS
& LANDSCAPE ARCHITECTS

830 3RD AVE.
NEW YORK, N.Y.

Revised 4/15/61
Revised 3/15/61

In Charge of J.E.E.
Made by R.E.M.
Traced by A.T.
Checked by R.J.H.



FIASE 60-1

F.I.A.S.E. 60-1

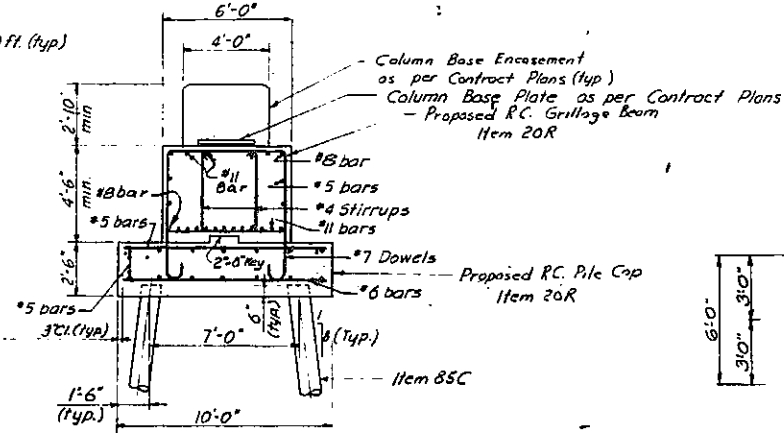
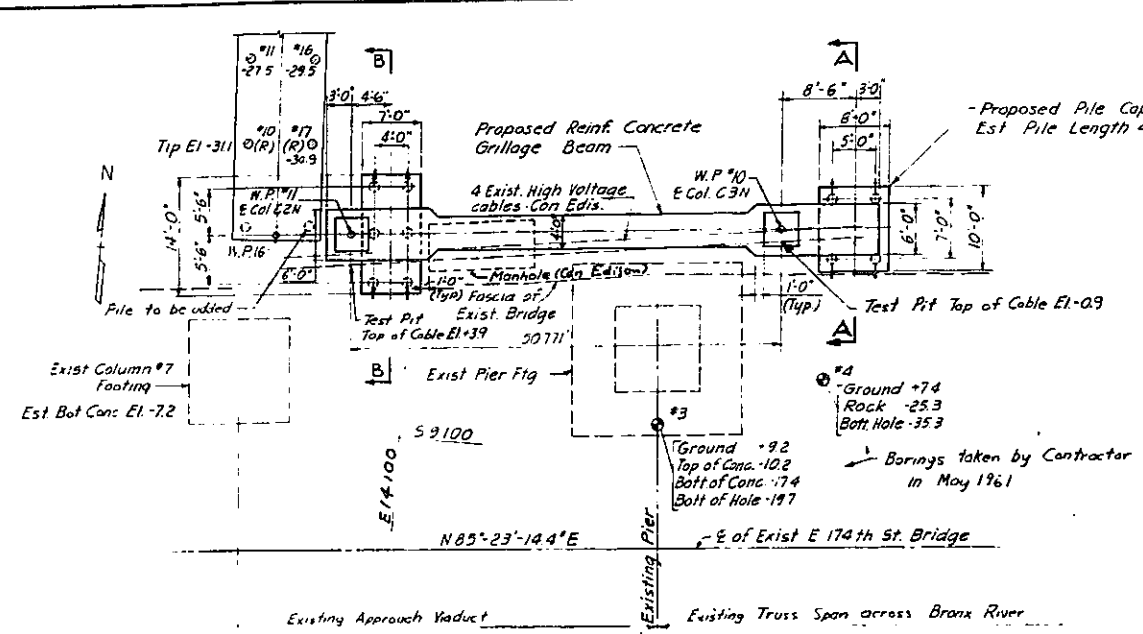
F.I.A.S.E. 60-1

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EI-278-1(48)		A-5	

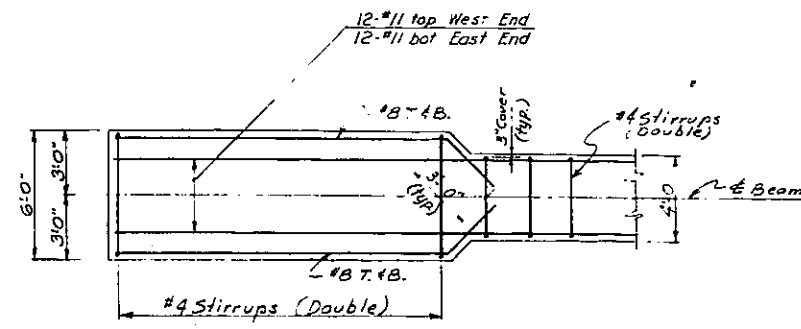
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONT AVE.

CONTRACT NO. 2

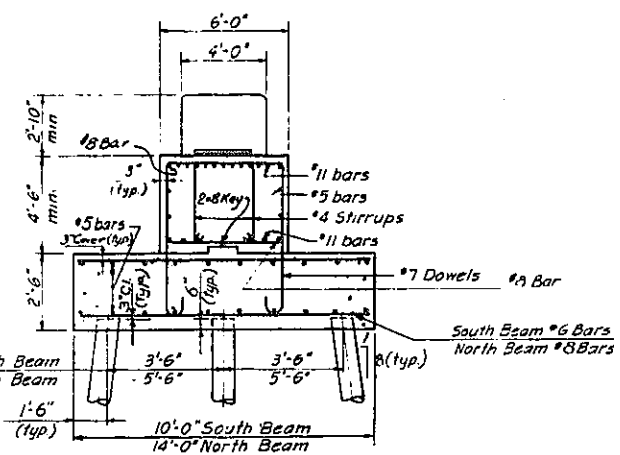
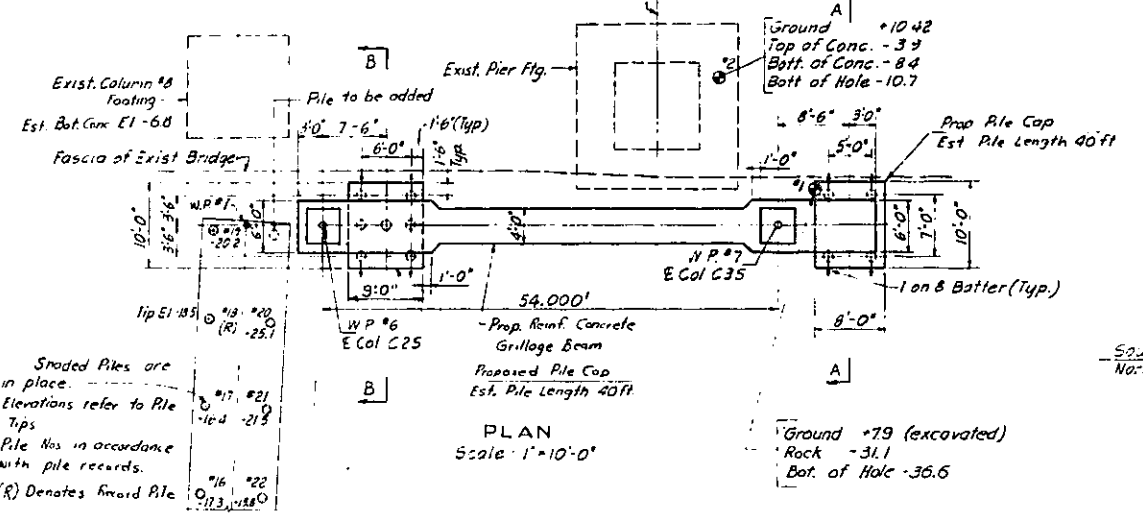
A5R



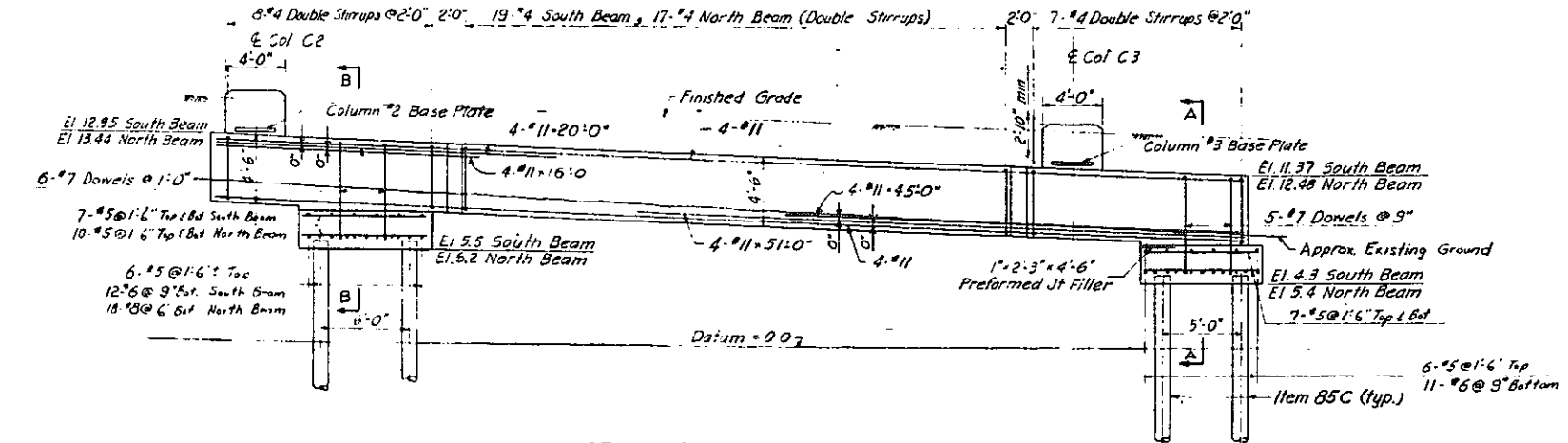
SECTION A-A
Scale: 1/4"=1'-0"



REINF. SCHEME @ END OF BEAM
Scale: 4"=1'-0"



SECTION B-B
Scale: 1/4"=1'-0"



GRILLAGE BEAMS - SOUTH ELEVATION
(*South Beam shown, North Beam similar, except as noted)
Scale: 1/4"=1'-0"

FIELD CHANGE SHEET

- Notes:
1. Piles to conform to specifications for Item B5C. Design Load 35 tons per pile.
 2. Distance between proposed piles and existing bridge footings to be 10' minimum.
 3. Clear distance between proposed piles and existing high voltage Con Edison cables to be 1'-0" minimum. Cables to be uncovered at locations of pile driving before piles are driven.
 4. This drawing supersedes the Contract Plans only to the extent shown. Other details, including column base details and elevations, to be as shown on Contract Plans.
 5. Settlement grades on existing bridge footings to be taken and checked during driving of the proposed piles.

Rev. ① Pile Cap @ Col. C2N moved, Grillage Brm. Reinf. changed. 8-23-61

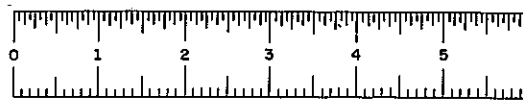
ARTHUR V SHERIDAN EXPRESSWAY				
NEW RAMPS AT E. 174TH ST. BRIDGE				
REVISION OF COLUMN FOUNDATIONS				
DRAWING NO.	DATE	SCALE	SHUMAYON & BUCKLEY CONSULTING ENGINEERS NEW YORK	
A-5	8-4-61	As Shown		

Recommended by
 A.M. SARR District Engineer
 August, 1961 District No 10

In Charge of: *[Signature]*
 Made By: *[Signature]*
 Checked By: *[Signature]*

FIASE 60-1

FIASE 60-1



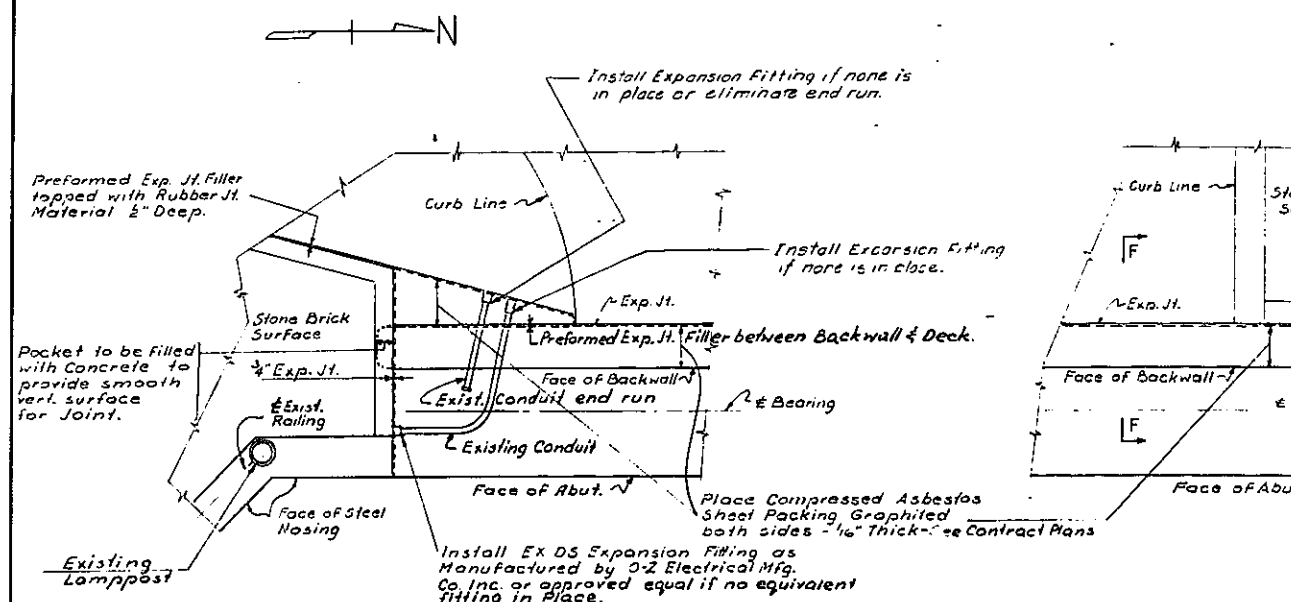
FIASE 60-1

A8R

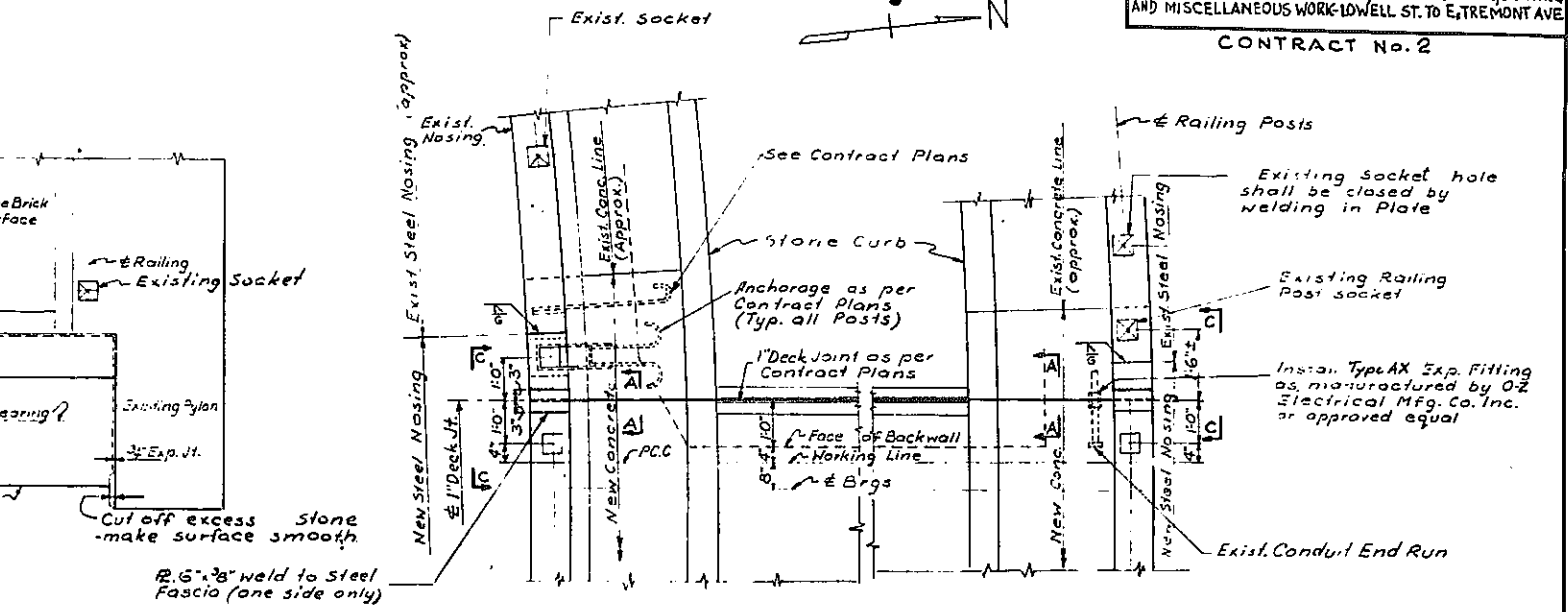
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	14270-145		A8	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - IOWELL ST. TO E. TREMONT AVE.

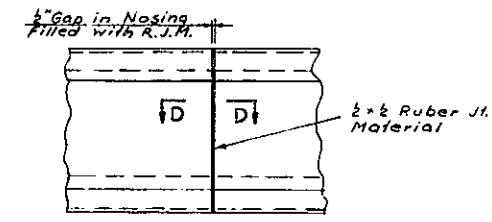
CONTRACT No. 2



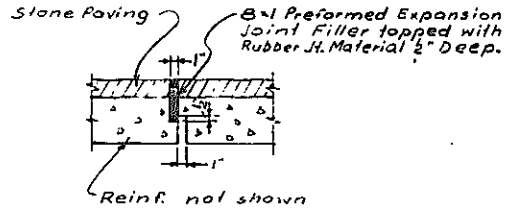
PARTIAL PLAN OF SOUTH ABUTMENT
Superstructure Not Shown
Scale: 1/2" = 1'-0"



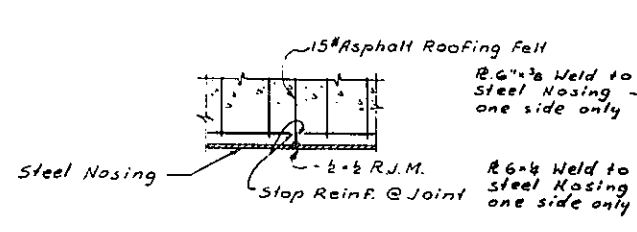
PARTIAL PLAN OF DECK AT NORTH ABUTMENT
Scale: 1/2" = 1'-0"



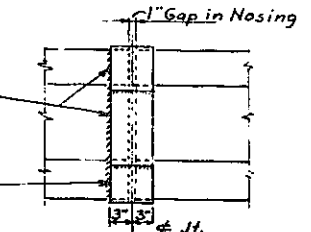
FASCIA ELEVATION AT DEFLECTION JT.
(at Piers with fixed Bearings)
No Scale



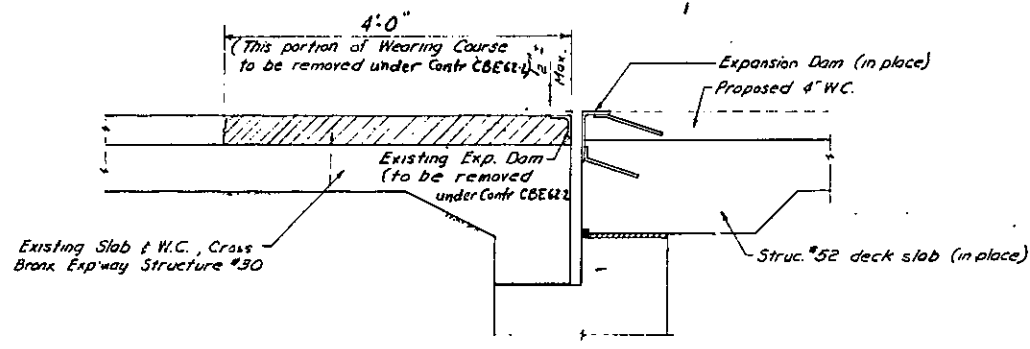
SECTION A-A
No Scale



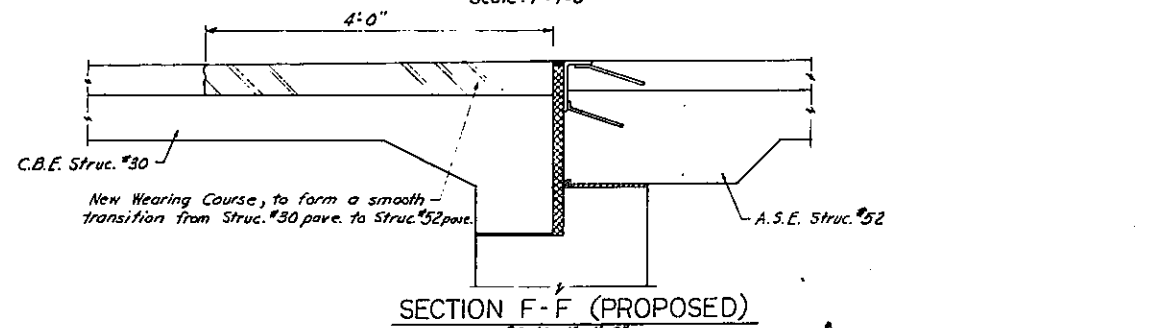
SECTION D-D
No Scale



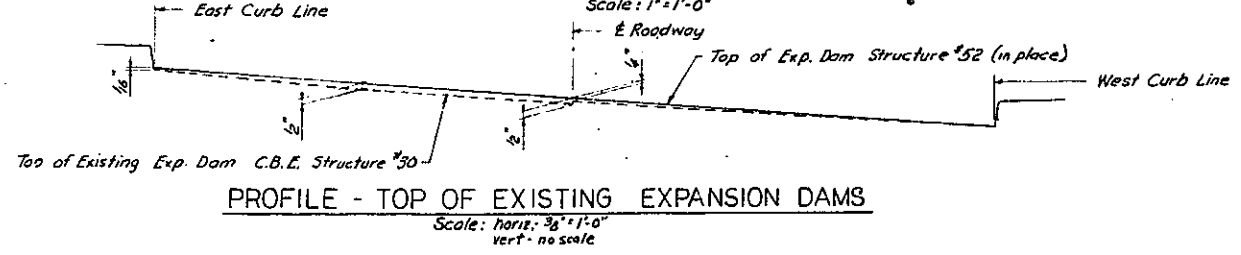
ELEVATION C-C
Scale: 1" = 1'-0"



SECTION F-F (EXISTING)
Scale: 1" = 1'-0"



SECTION F-F (PROPOSED)
Scale: 1" = 1'-0"



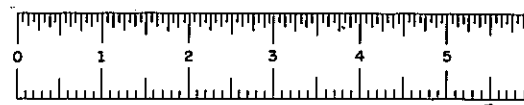
PROFILE - TOP OF EXISTING EXPANSION DAMS
Scale: horiz. 3/8" = 1'-0"
vert. no scale

NOTE:
This Dwg. supersedes Contract Plans only to the extent shown. Joint sections & details not shown as per Contract sheet #70.

Rev. 9-20-62 - Added Sections F-F & Exp. Dam Profile

ARTHUR V. SHERIDAN EXPRESSWAY			
VIADUCT STRUCTURE No. 52			
DECK JOINTS			
DRAWING NO.	DATE	SCALE	SHUMAVON & BUCKLEY CONSULTING ENGINEERS NEW YORK
A-8	9-27-61	As Shown	

In Charge of: *W.H. J. [Signature]*
 Made By: *[Signature]*
 Checked By: *[Signature]*



FIASE 60-1

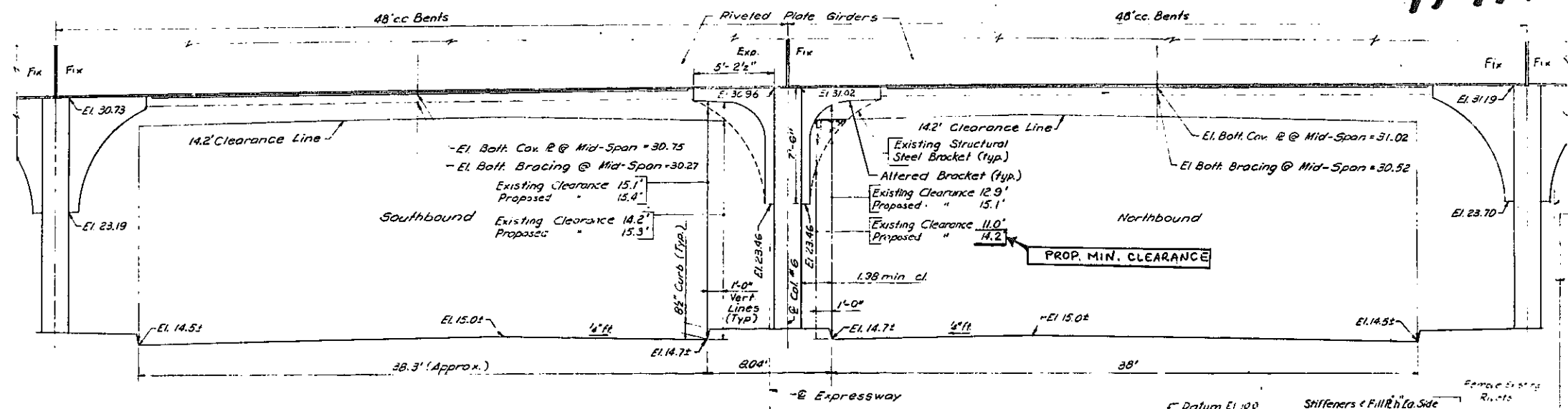
A9R

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	EI-278-145		A-9	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK-LOWELL ST. TO E. TREMONT AVE

CONTRACT NO. 2

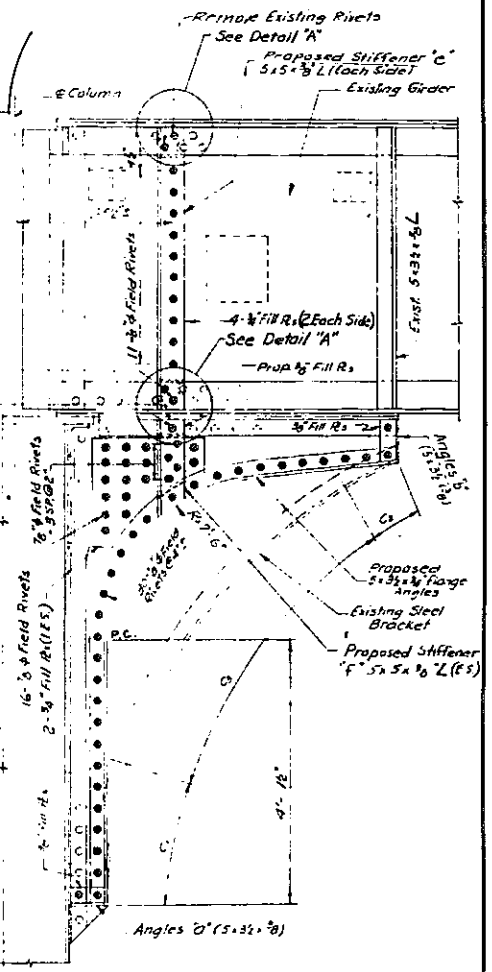
- Existing rivets
- New Rivets in new location
- New Rivets to replace existing



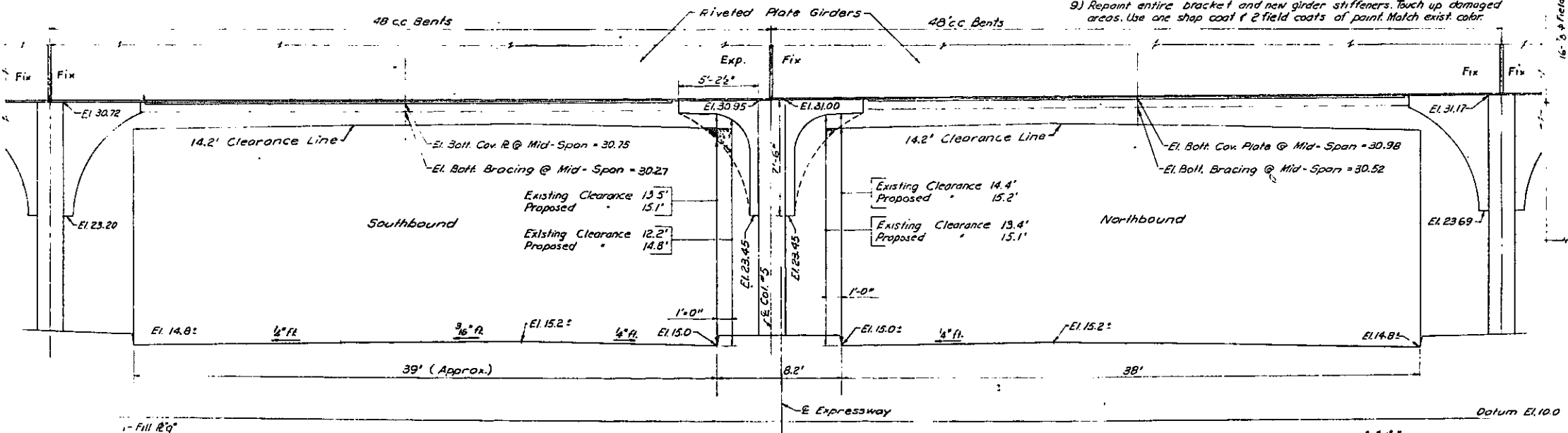
EXPRESSWAY SECTION ALONG SOUTH GIRDER (LOOKING NORTH)

ALTERATION PROCEDURE

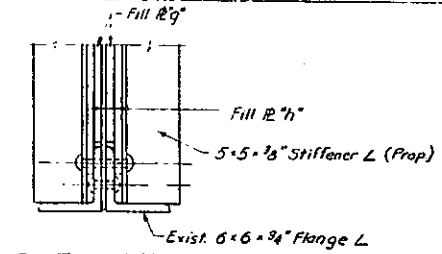
- 1) Cut rivets and remove angles a & b
- 2) Cut rivets and remove sections a & c of bracket flange angles
- 3) Clamp new flange angles to existing bracket web field drill holes in web, install fitting-up bolts
- 4) Remove designated rivets in girder and bracket webs
- 5) Clamp new stiffener angles e and f and fill R's, field drill holes in girder and bracket webs, install fitting up bolts
- 6) Install new angles a & b
- 7) Field rivet new bracket flange L's and stiffeners
- 8) Flame cut existing bracket webs and grind smooth
- 9) Repoint entire bracket and new girder stiffeners. Touch up damaged areas. Use one shop coat & 2 field coats of paint. Match exist. color.



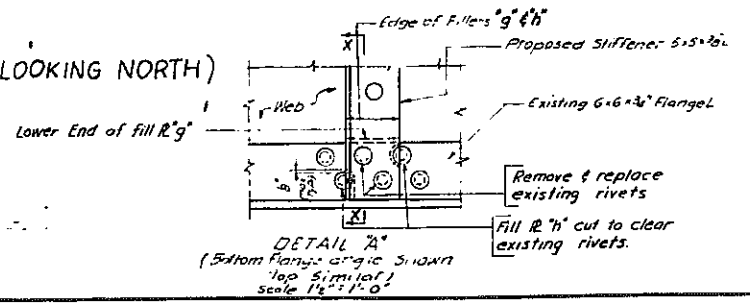
TYPICAL BRACKET ALTERATION Scale 3/4" = 1'-0"



EXPRESSWAY CROSS SECTION ALONG NORTH GIRDER (LOOKING NORTH)



SECTION X-X Scale 1/2" = 1'-0"



DETAIL A (5' from flange angle shown top similar) Scale 1/4" = 1'-0"

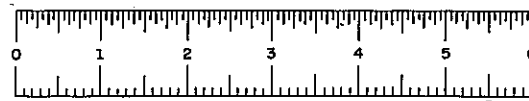
- NOTES:
1. Clearances shown are measured vertically not perpendicular to roadway pavement.
 2. Contractor to take field measurements, and submit shop drawings as specified under item 29A2.
 3. A's new material ASTM - A7 Steel.
 4. No welding or permanent bolting permitted.

Revised 3-23-1962

ARTHUR V. SHERIDAN EXPRESSWAY
ALTERATIONS TO EXISTING BRACKETS
E. 174th ST VIADUCT

DRAWING NO.	DATE	SCALE	SHUMAVON & BUCKLEY CONSULTING ENGINEERS NEW YORK
A-9	3-13-62	3/4" = 1'-0" (as shown)	

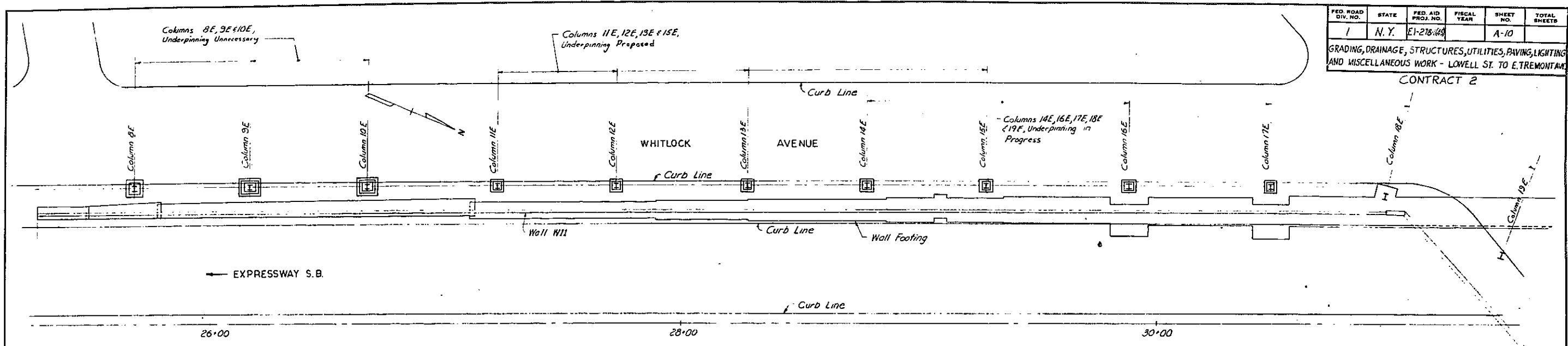
In Charge of Work: [Signature]
 Made By: [Signature]
 Traced By: [Signature]
 Checked By: [Signature]



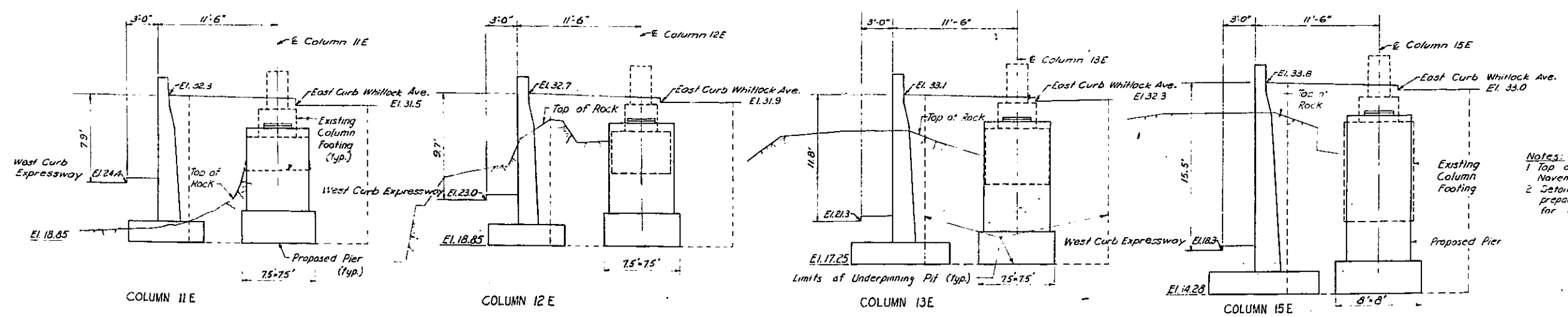
FIASE 60-1

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. Y.	E1-278-49		A-10	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. TREMONTAVE



PLAN - WALL W11
Scale: 1" = 20'

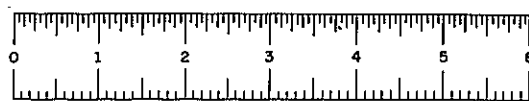


- Notes:
- 1 Top of rock is found in field survey November 1961
 - 2 Detail drawings of underpinning to be prepared by Contractor and submitted for approval.

SECTIONS OF WALL W11 AT IRT. COLUMNS
Scale: 1" = 5'

ARTHUR V. SHERIDAN EXPRESSWAY			
UNDERPINNING OF I.R.T. COLUMNS			
11E, 12E, 13E & 15E			
DRAWING NO.	DATE	SCALE	SHUMAVON & BUCKLEY CONSULTING ENGINEERS NEW YORK
A-10	11-3-61	as shown	

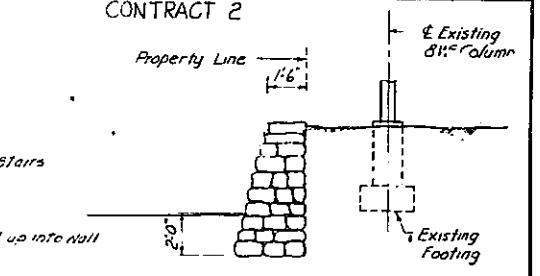
In Charge: Arthur V. Sheridan
 Made By: [Signature]
 Traced By: [Signature]
 Checked By: [Signature]



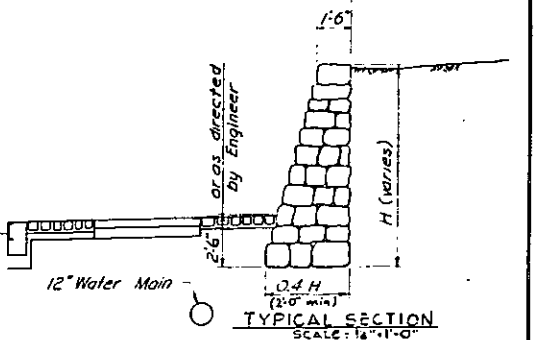
FIASE 60-1

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	E1-278-1(45)	A-11	

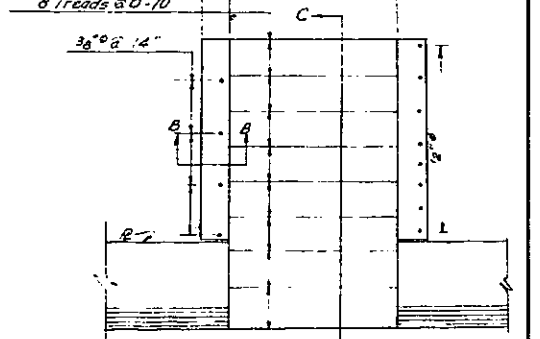
GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E. FARM ROAD



AIIR
SECTION A-A
Scale 1/4" = 1'-0"



TYPICAL SECTION
Scale 1/4" = 1'-0"

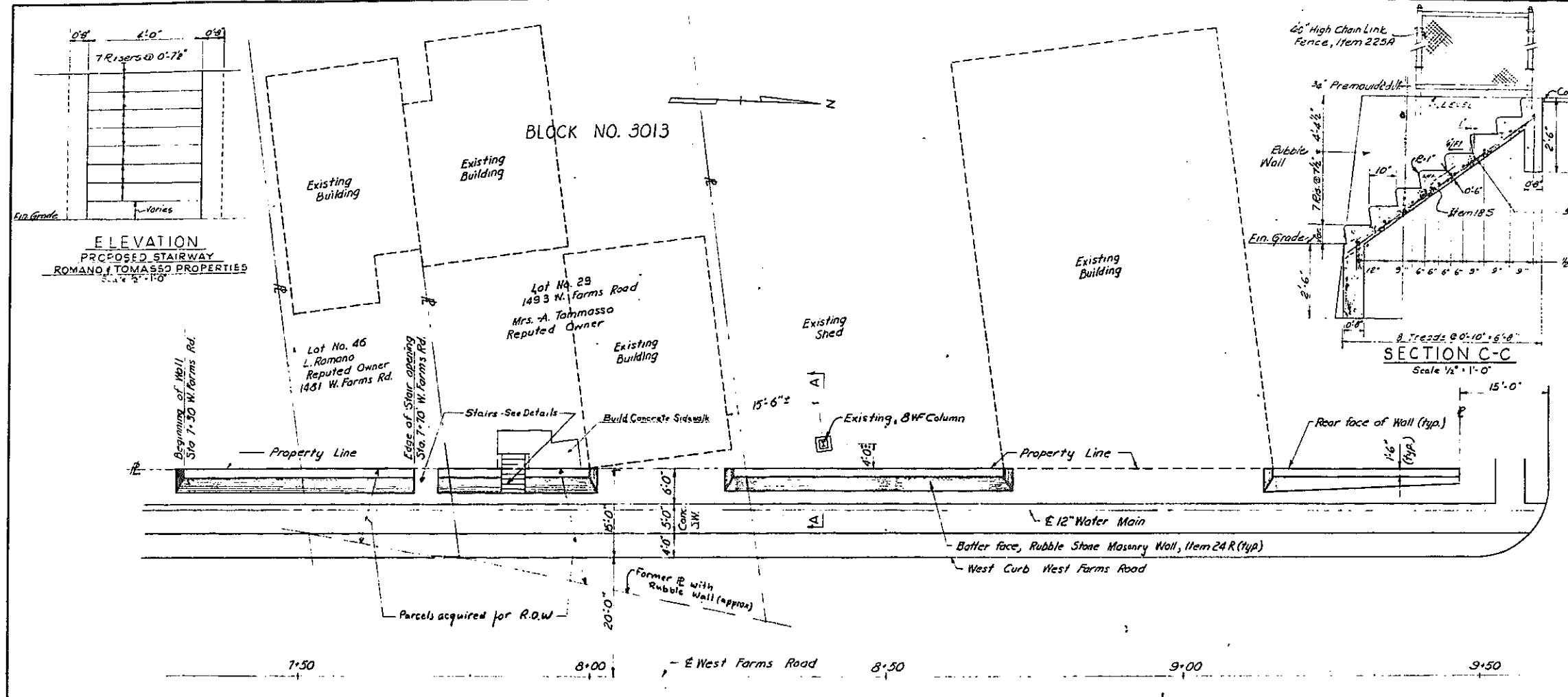


SECTION C-C
Scale 1/2" = 1'-0"

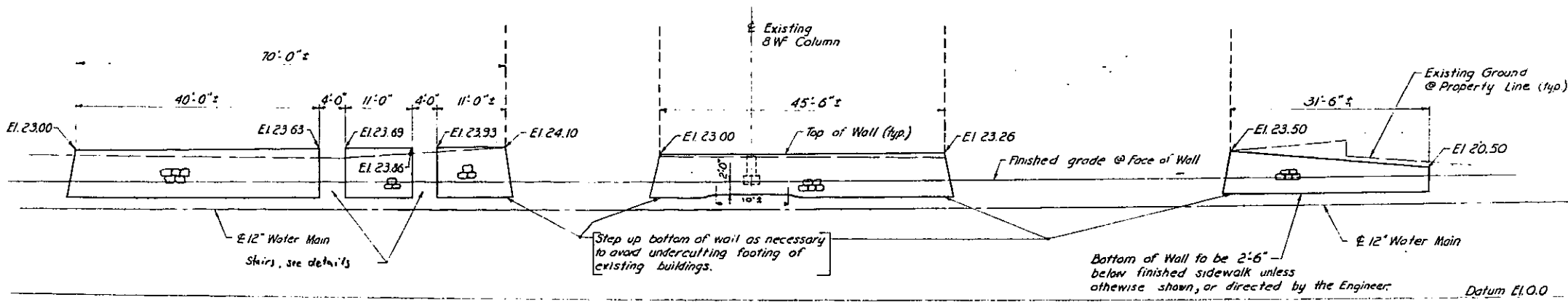
PROPOSED STAIRWAY, ROMANO & TOMASSO PROPERTIES
Scale 1/2" = 1'-0"

Rev 2-1-63 Added Stairway Details.
Rev 6-15-62 Block & Lot Nos added

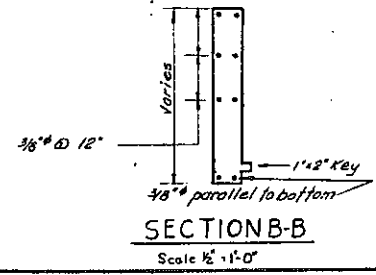
ARTHUR V. SHERIDAN EXPRESSWAY			
RUBBLE STONE MASONRY WALL			
W. FARMS ROAD STA. 7+30 TO 9+50			
DRAWING NO.	SCALE	DATE	SHEET NO.
A-11	1" = 10'-0" and as shown	3-2-62	A-11
SHUMAVON, BUCKLEY & GOUL			
CONSULTING ENGINEERS NEW YORK			



PLAN



ELEVATION



SECTION B-B
Scale 1/2" = 1'-0"

Note: Concrete for Proposed Stairway to be Item 185

In Charge of: *[Signature]*
 Made By: *[Signature]*
 Traced By: *[Signature]*
 Checked By: *[Signature]*

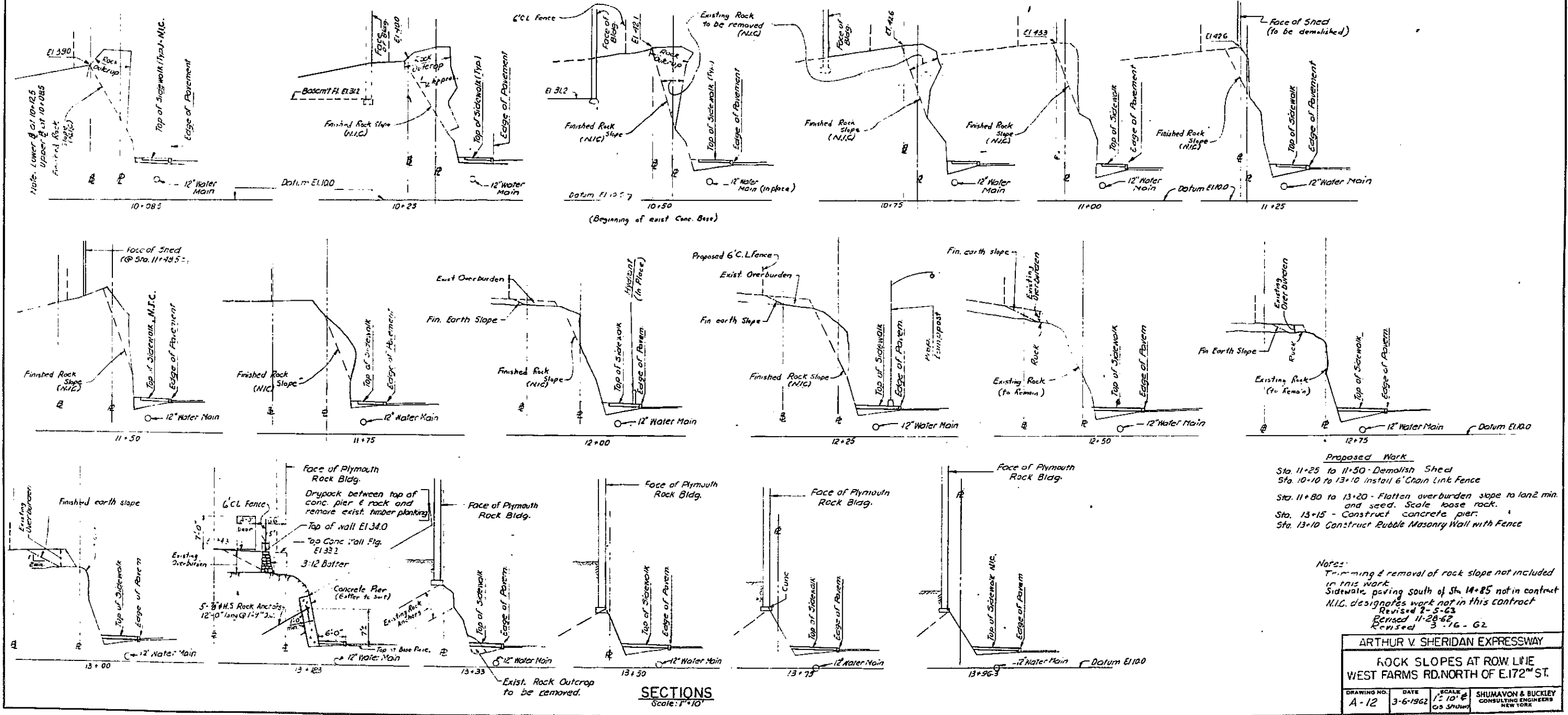
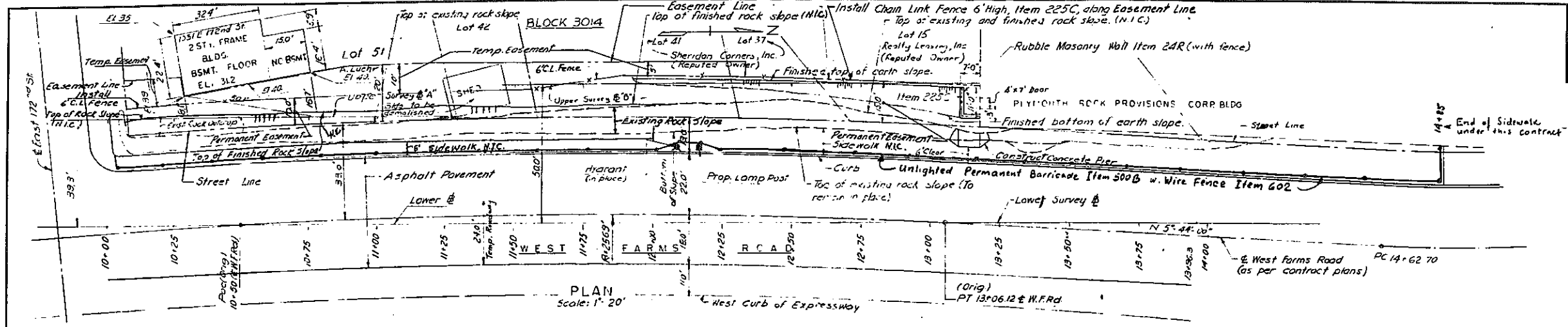


FIASE 60-1

FIASE 60-1					
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	EL-2784		A-12	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LAGATING AND MISCELLANEOUS WORK LOWELL ST TO E. TREMONT AVE.
CONTRACT 2

A12R



Proposed Work

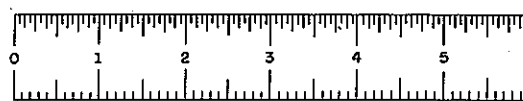
- Sta. 11+25 to 11+50 - Demolish Shed
- Sta. 10+10 to 13+10 install 6' Chain Link Fence
- Sta. 11+80 to 13+20 - Flatten overburden slope to 1 on 2 min. and seed. Scale loose rock.
- Sta. 13+15 - Construct concrete pier.
- Sta. 13+10 Construct Rubble Masonry Wall with Fence

Notes:

- Trimming & removal of rock slope not included in this work.
- Sidewalk paving south of Sta. 14+85 not in contract.
- N.I.C. designates work not in this contract.
- Revised 2-5-63
- Revised 11-28-62
- Revised 3-16-62

ARTHUR V. SHERIDAN EXPRESSWAY			
ROCK SLOPES AT ROW LINE WEST FARMS RD. NORTH OF E. 172 ND ST.			
DRAWING NO.	DATE	SCALE	SHUMAVON & BUCKLEY CONSULTING ENGINEERS NEW YORK
A-12	3-6-1962	1" = 10' @ 25' STATION	

In Charge of: *Arthur V. Sheridan*
 Made By: *John J. Pappalardo*
 Checked By: *Arthur V. Sheridan*



FIASE 60-1

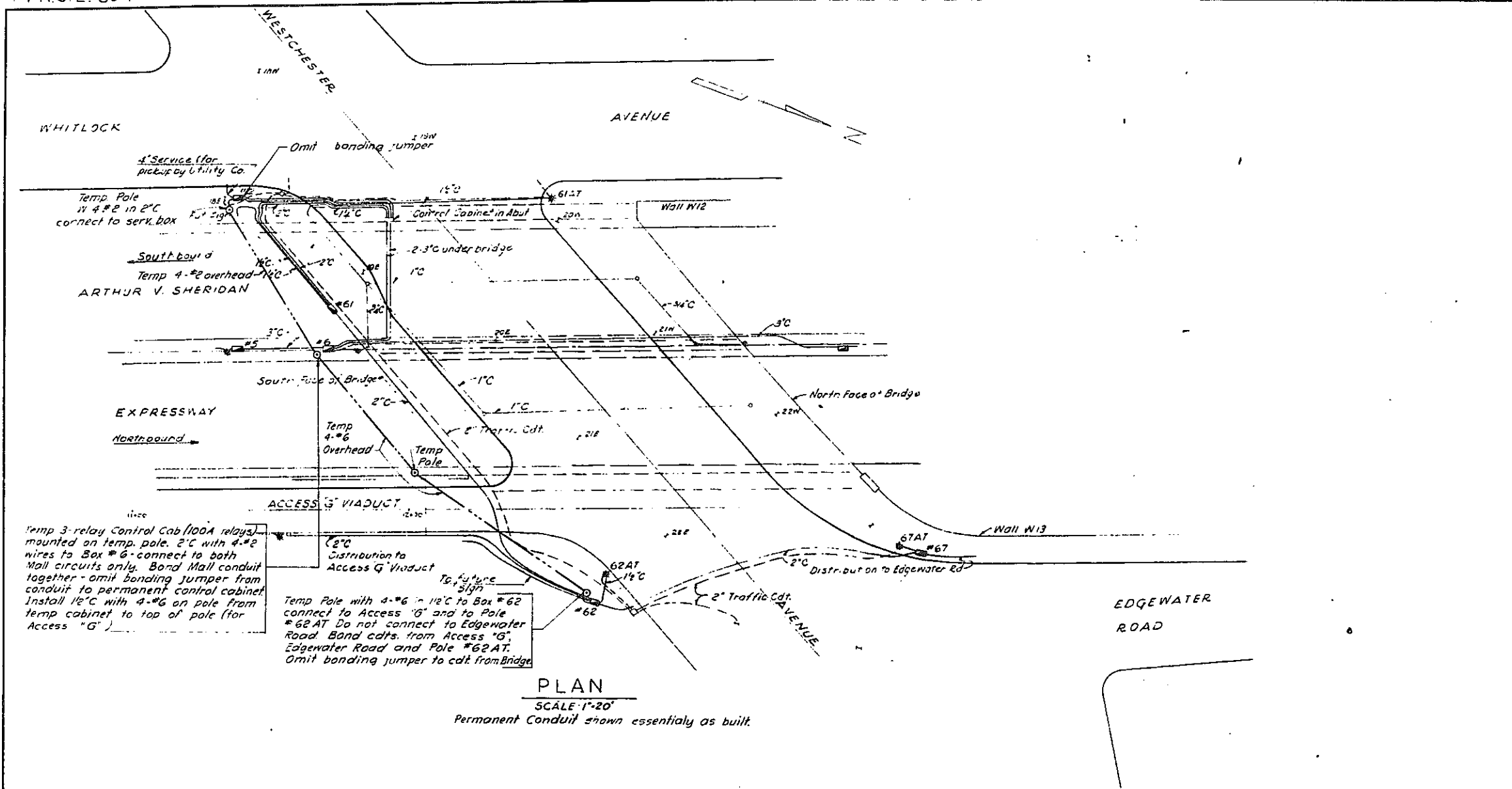
F.I.A.S.E. 60-1

F.I.A.S.E. 60-1

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	E1-276-1 (45)	A18	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING AND MISCELLANEOUS WORK - LOWELL ST. TO E TREMONT AVE

CONTRACT NO 2



Temp 3-relay Control Cab (100A relays) mounted on temp. pole. 2\"/>

Temp Pole with 4-#6 in 1\"/>

PLAN
SCALE 1\"/>

- Notes
1. Temporary Lighting Service shown on this sheet to be in operation until stray currents can be removed from the Bridge Structure.
 2. All Temporary Conduit to be isolated for the present time from conduit and other metal to and from bridge.
 3. Lamppost 61AT and underbridge lights & warning lights are not to be connected at this time.
 4. Temporary Lighting on Edgewater Road to remain in operation and no permanent connections are to be made at this time.

DWSG & E JOB NO. 56-48

ARTHUR V. SHERIDAN EXPRESSWAY

UNDERPASS AT WESTCHESTER AVENUE
TEMPORARY LIGHTING SERVICE

DRAWING NO. A-18	SCALE 1\"/>
---------------------	----------------

DATE 1-25-1963 SHEET NO. A-18
SHUMAVON, BUCKLEY & GOUL
 CONSULTING ENGINEERS NEW YORK

F.I.A.S.E. 60-1

In Charge of: *Arthur V. Sheridan*
 Made By: A.V.S.
 Traced By: A.V.S.
 Checked By: F.A.G.P.



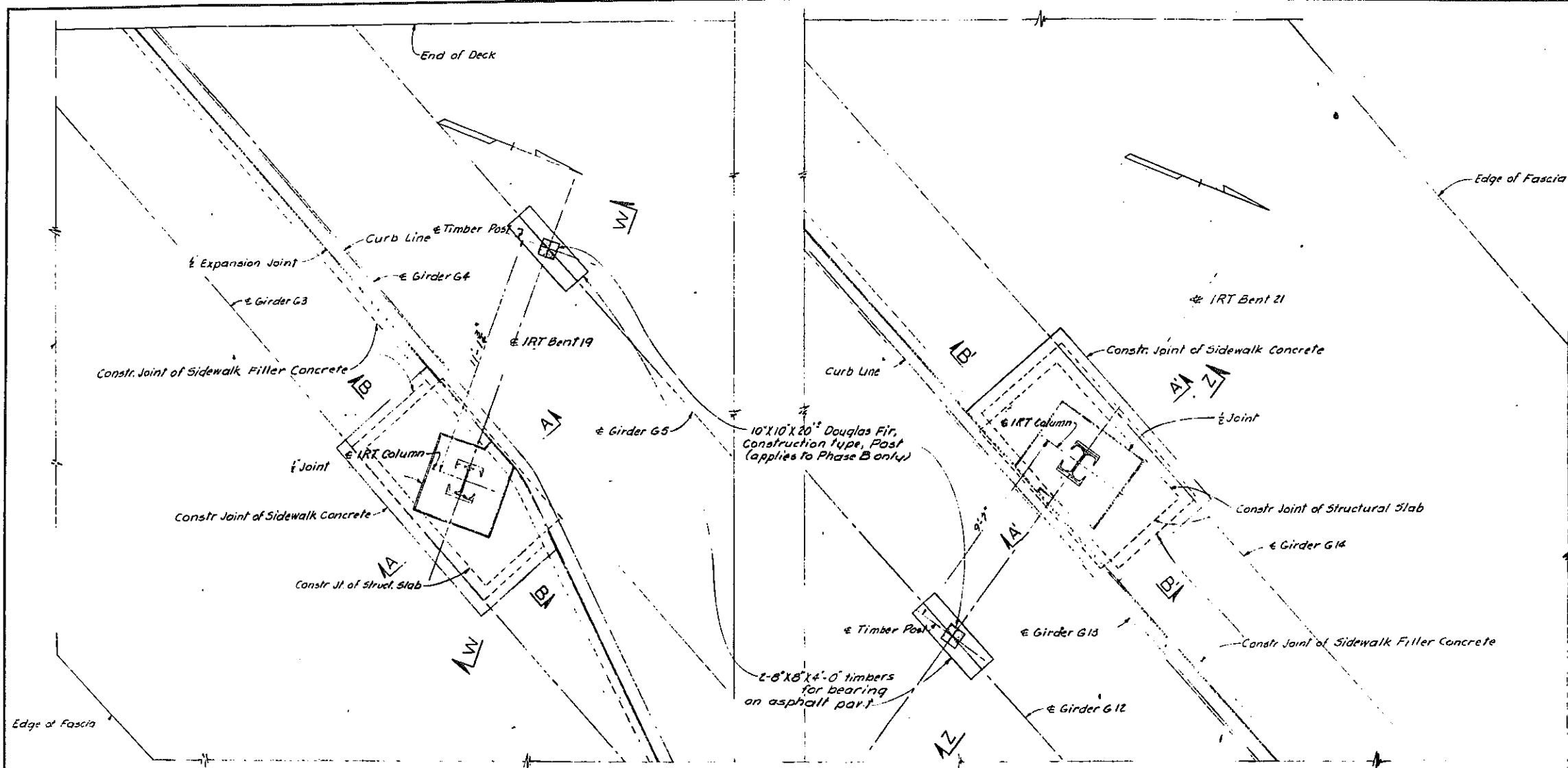
PHASE 60-1

PHASE 60-1

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	E 1 (278-1(45))	A-20	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING & MISC. WORK - LOWELL ST. TO TREMONT AVE.

CONTRACT 2



SEQUENCE OF OPERATIONS

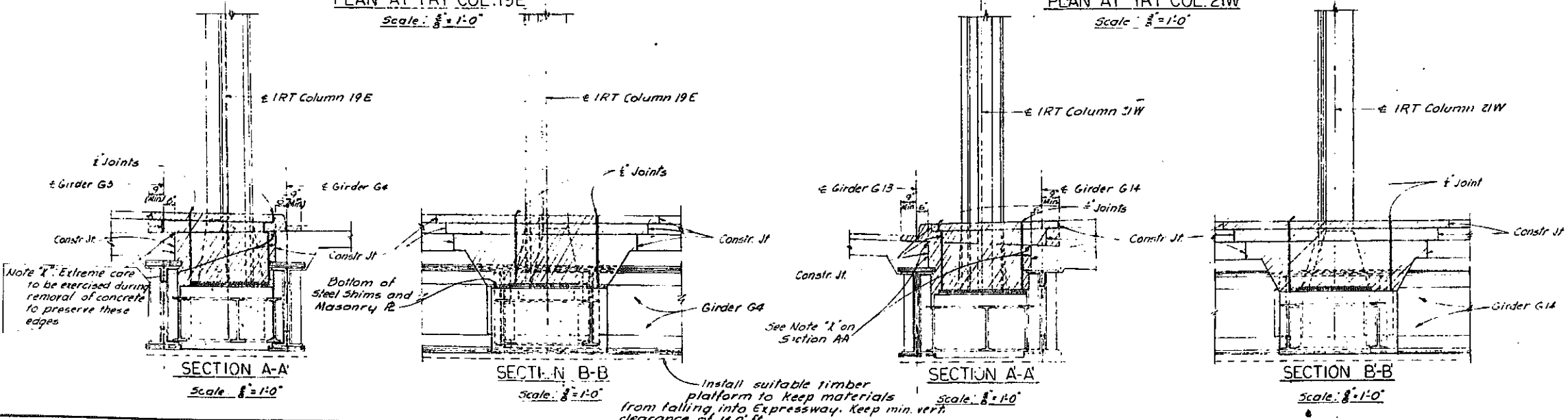
- PHASE A**
- 1.- Install temporary fencing and barricades on top of bridge and platform at bottom of bridge girders at IRT Columns 19E & 21W.
 - 2.- Cut out and remove sidewalk, curb and structural slab around IRT Columns 19E & 21W down to the bottom of masonry plate, as shown by the hatched areas in Sections A-A, B-B, A'-A' & B'-B'. Begin concrete removal operation by saw-cutting top 2" of exposed concrete sidewalk and curb surfaces. Bend wire mesh and reinforcing bars to clear hole.
 - 3.- The Engineer will perform electric tests to determine if removal of concrete has eliminated the stray currents.
 - 4.- Proceed to Phase B and order materials therefor only if test results indicate that stray currents persist and only if so directed by the Engineer.
 - 5.- If the Engineer finds Phase B unnecessary, reinforcing bars and wire mesh shall be bent back in proper position, any cut bars respliced, concrete, expansion joint filler replaced and all work restored to match the existing structure. Work is to be carefully executed so as to prevent any stray currents from re-occurring in the complete work.

PLAN AT IRT COL. 19E

Scale: 1/8" = 1'-0"

PLAN AT IRT COL. 21W

Scale: 1/8" = 1'-0"



NOTES

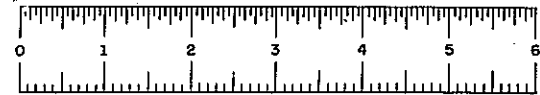
- 1- For description of Phase B see Dwg. A-21.
- 2- For Sections W-W & Z-Z see Dwg. A-22.
- 3- All Contract provisions relative to safety, responsibility of Contractor, Transit Authority requirements and other applicable matter specified for Contract Item 421 shall be equally applicable to work shown in Drawings A-20, A-21 & A-22.

6-17-63 General Revisions

ARTHUR V. SHERIDAN EXPRESSWAY			
UNDERPASS AT WESTCHESTER AVENUE ELIMINATION OF STRAY CURRENTS PHASE (A) - CONCRETE REMOVAL			
DRAWING NO. A-20	SCALE AS NOTED	DATE MAY 20, '63	SHEET NO. A-20
SHUMAVON, BUCKLEY & GOUL CONSULTING ENGINEERS			NEW YORK

In Charge of **A. V. P. R. E.**
 Made by **A. G. S. I. M. E.**
 Traced by **A. G. S. I. M. E.**
 Checked by **T. A. S. F. O.**

Install suitable timber platform to keep materials from falling into Expressway. Keep min. vert. clearance of 16.0' H.



PHASE 60-1

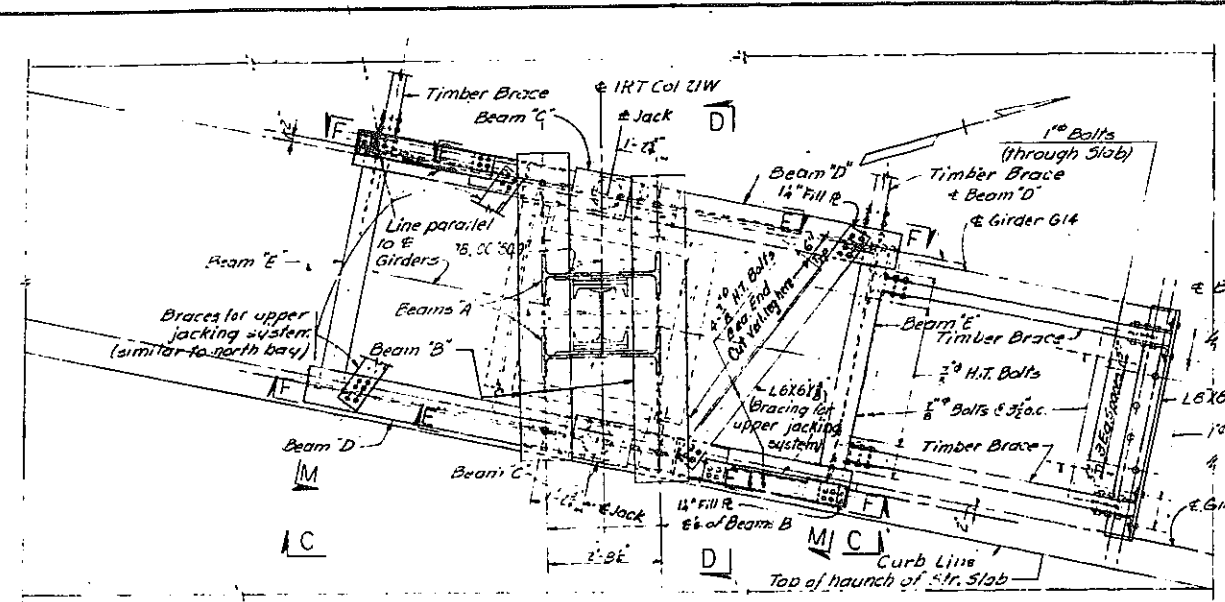
PHASE 60-1

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	E1 (278-1(45))	A-21	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING & MISC. WORK - LOWELL ST. TO E. TREMONT AVE.

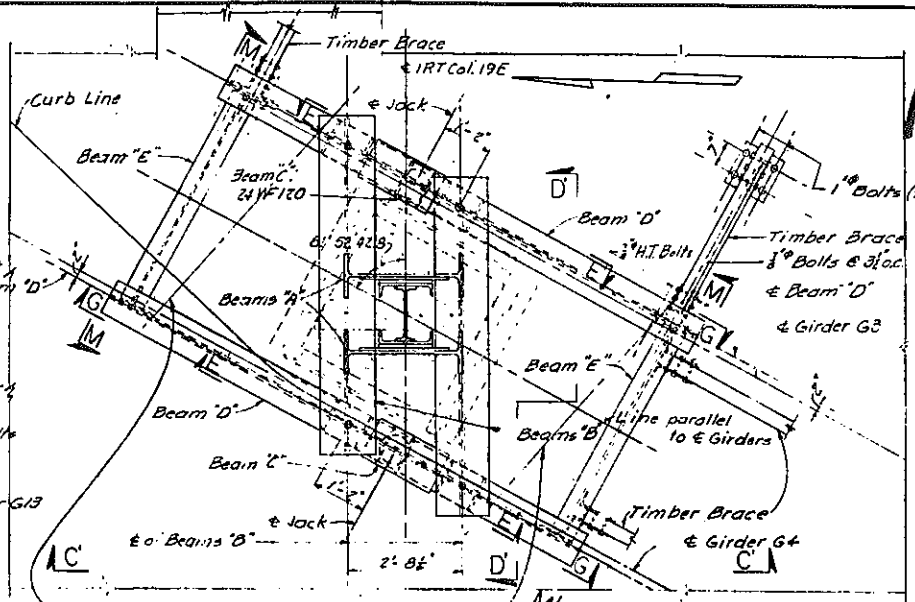
CONTRACT 2

A21R



PLAN AT IRT COL. 21W

Scale: 1/2" = 1'-0"



PLAN AT IRT COL. 19E

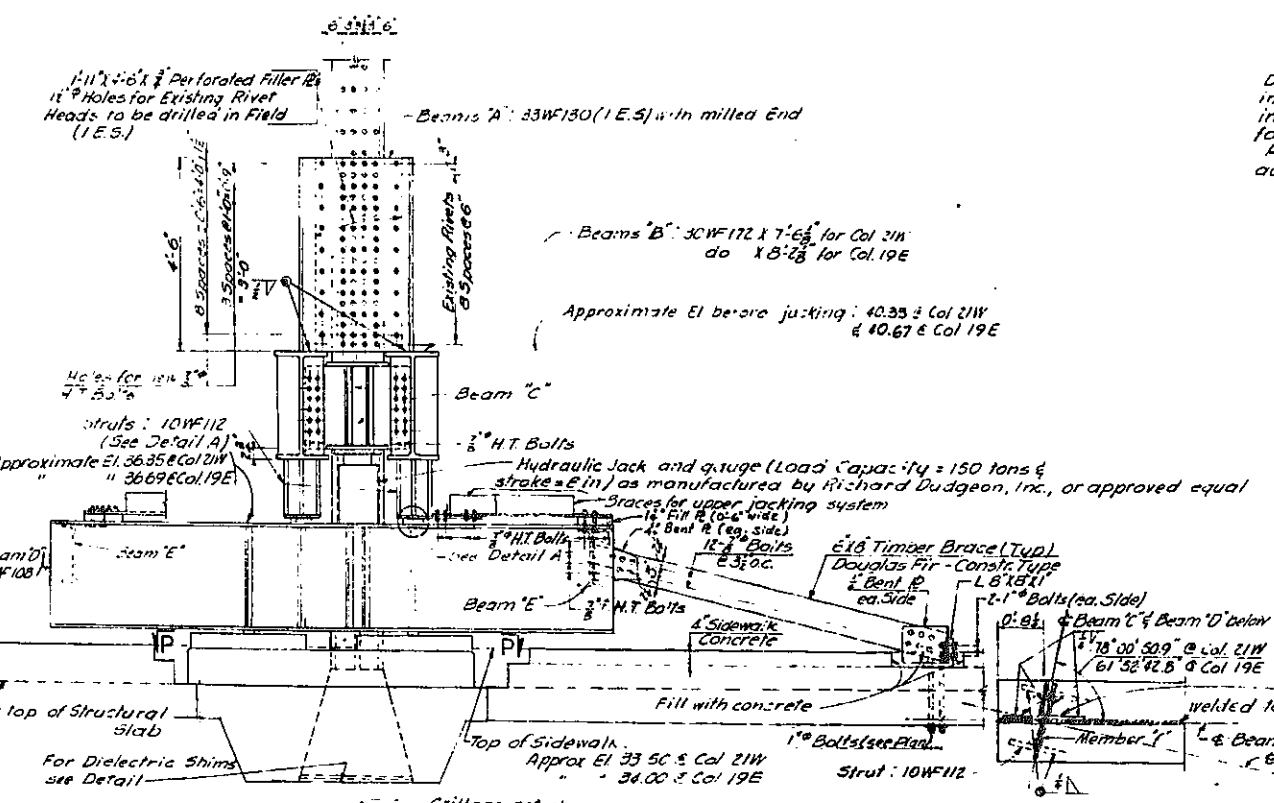
Scale: 1/2" = 1'-0"

Note: Brace upper jacking system as shown on Plan of Col. 21W.

SEQUENCE OF OPERATIONS

- PHASE B**
- 1- Form and pour Concrete Bearing Pads on Structural Slab. Minimum curing period seven days before jacking.
 - 2- Install temporary Timber Post under I.R.T. Bent and wedge tight. Remove bracket beam webs and perforated filler plates remaining from previous underpinning and immediately bolt in position new beams "A" and new perforated filler plates. Removal of old plates and installation of new beams is to be completed on one side of one column at a time and no holes are to be left open overnight. After both "A" beams are installed remove timber posts.
 - 3- Install bearing assemblies and Beams "D" & "E" on concrete bearing pads and dry pack. Install connections and horizontal timber bracing. Exercise care to avoid any metallic contact between jacking beams and bridge structure.
 - 4- Erect and connect Beams "B" & "C". Install wedges and shims between struts and top of Beams "D". Drive wedges to bring Beams "B" & "A" in contact. Field weld Beam "B" to "A".
 - 5- Place two Hydraulic Jacks between Beams "D" and "C" and couple to operate both jacks on a column simultaneously by the same pump. Back off Column anchor bolt nuts and jack up column 2". Install additional shims to fill space between struts & top of Beam "D". Release jacks & deposit Column load on shim pack.
 - 6- Remove Steel Shims from between I.R.T. Column base plates and masonry plates and replace with dielectric shims.
 - 7- Replace and repair existing Micarta sleeve insulation around the Column Anchor Bolts as directed by the Engineer.
 - 8- The Engineer will perform electric tests to determine if stray currents have been eliminated.
 - 9- When authorized by the Engineer, jack up the Columns just enough to remove shim pack from top of Beams "D". Lower Column slowly operating both jacks in tandem and deposit column base on dielectric shims and masonry plate. Reinspect anchor bolt insulation and retighten nuts. Do not remove temporary jacking beams.
 - 10- After both Columns have been re-deposited on masonry plates, the Engineer will perform electric potential tests. If test results are satisfactory, all jacking beams except "A" may be removed.
 - 11- Restore bridge deck as described under par. 5 for Phase "A".
 - 12- On completion of all Concrete work the Engineer will retest potentials. If test results are satisfactory cut Beams "A" and filler plates flush with column and remove fencing, barricades and platform under bridge. Patch over bottom of Anchor Bolts.

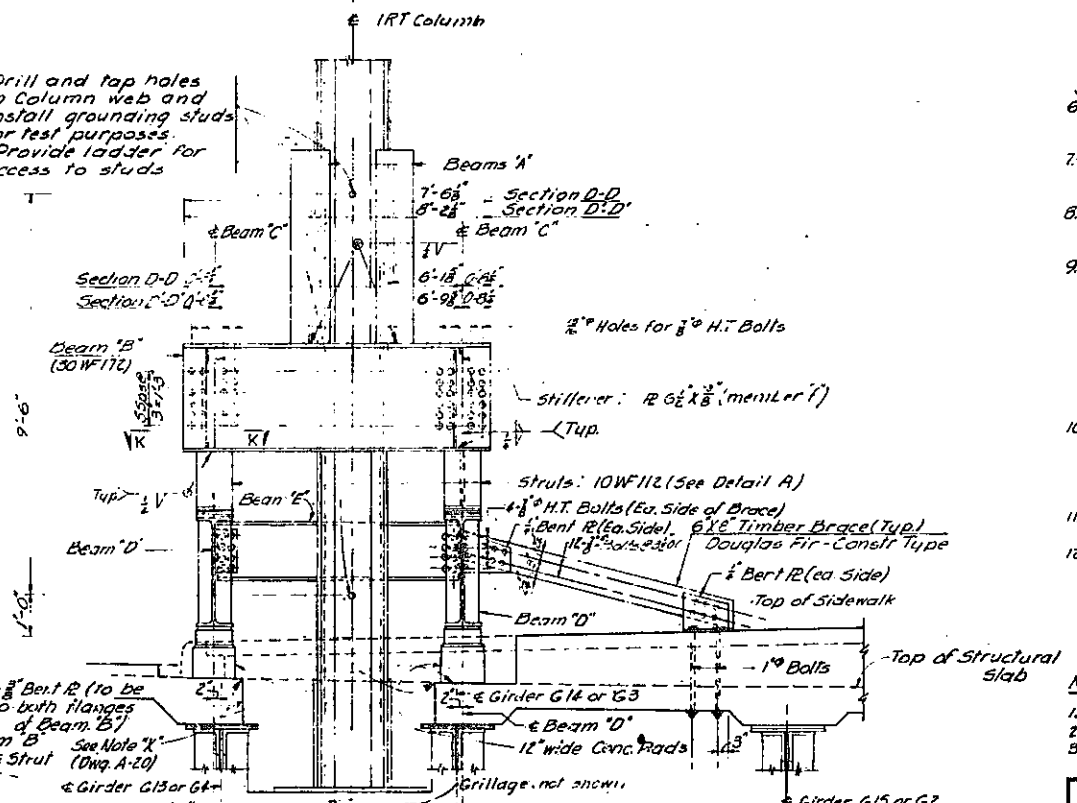
Install upper bracing system



SECTION C-C (AS SHOWN)

SECTION C-C (SIMILAR)

Scale: 1/2" = 1'-0"



SECTION D-D (AS SHOWN)

SECTION D-D (SIMILAR)

Scale: 1/2" = 1'-0"

SECTION K-K

Scale: 1/2" = 1'-0"

Phase (B) Details shown on this sheet were not required.

Note: Insert shims as required to fill gap between Stillener Angles and Flange Angles of Bridge Girders.

6-17-63 General Revisions
 6-27-63 General Revisions
 7-25-63 Fills @ Brans added
 8-13-63 Change @ Braces.

ARTHUR V. SHERIDAN EXPRESSWAY
 UNDERPASS AT WESTCHESTER AVENUE
 ELIMINATION OF STRAY CURRENTS
 PHASE (B) - JACKING

DRAWING NO.	SCALE	DATE	SHEET NO.
A-21	AS NOTED	MAY 20, '63	A-21

SHUMAVON, BUCKLEY & GOUL
 CONSULTING ENGINEERS
 NEW YORK

In Charge of...
 Made By...
 Traced By...
 Checked By...



FIASE 60-1

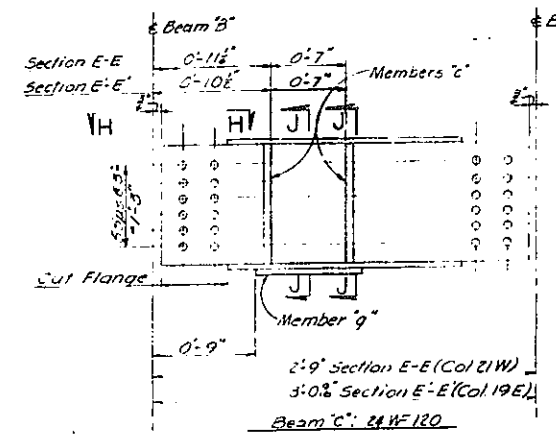
FIASE 60-1

A22R

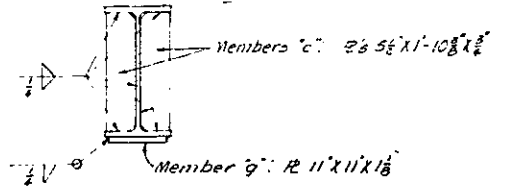
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	E1 (273-1(45))	A-22	

GRADING, DRAINAGE, STRUCTURES UTILITIES, PAVING, LIGHTING & SIGNWORK - LOVE ST. TO E. TREMONT AVE.

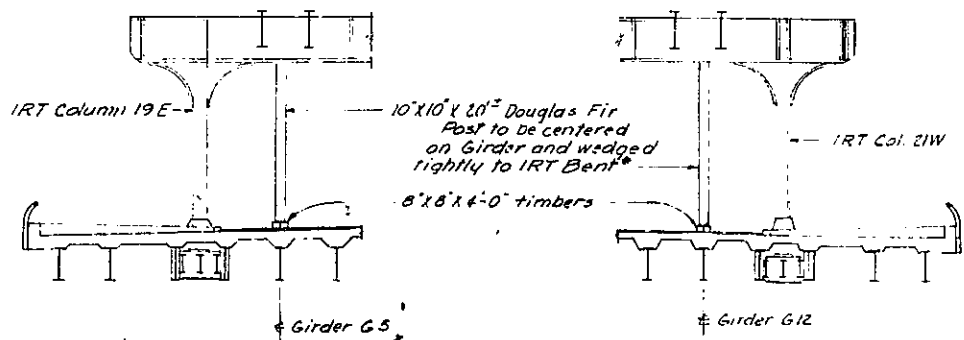
CONTRACT NO. 2



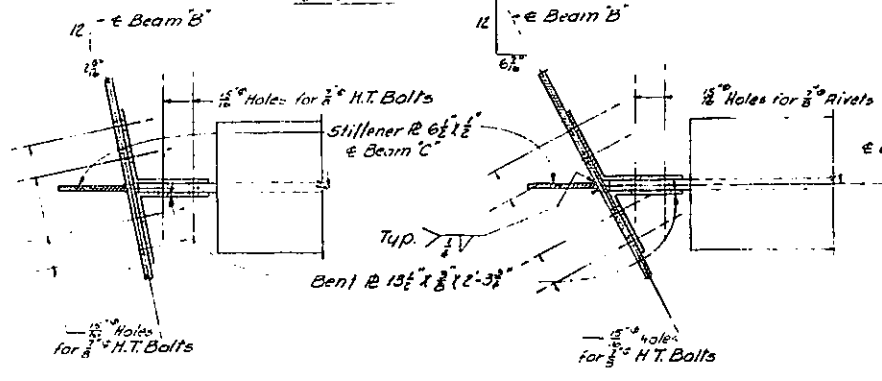
SECTION E-E
SECTION E-E
Not to scale



SECTION J-J
Not to scale

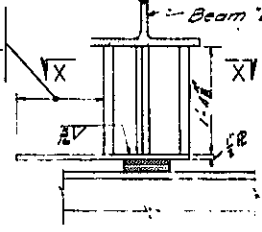


SECTION W-W
Scale: 1" = 10'-0"

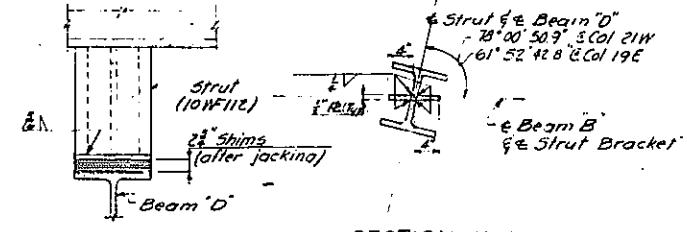


SECTION H-H AT
SECTION E-E
Scale: 1" = 1'-0"

SECTION H-H AT
SECTION E-E
Scale: 1" = 1'-0"

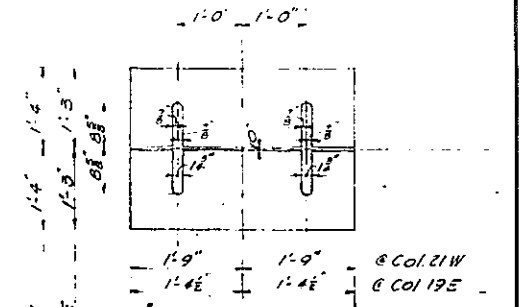


Scale: 1" = 1'-0"

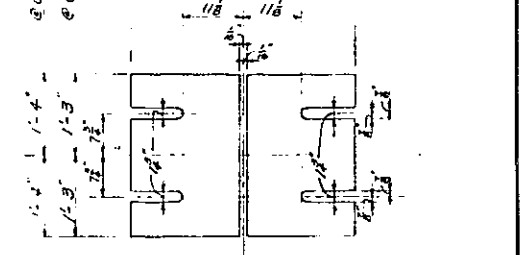


Scale: 1" = 1'-0"

SECTION Y-X
Not to scale



TYPE A



TYPE B

DIELECTRIC SPLIT SHIMS DETAIL

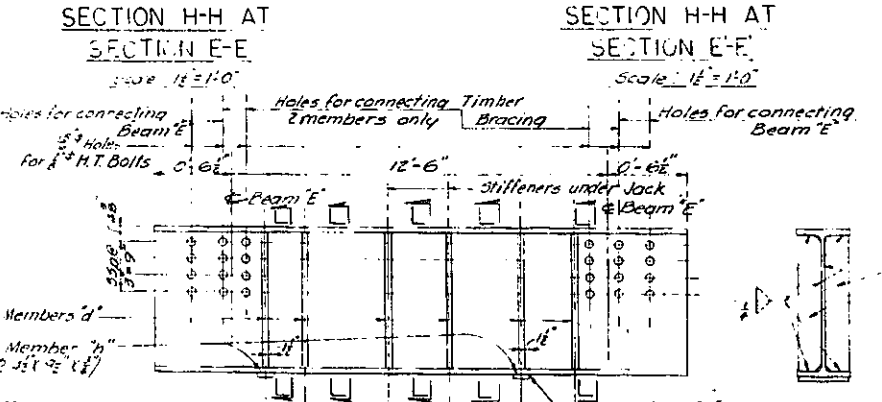
Scale: 1" = 1'-0"

Note: Type A and Type B Split Shims are to be placed in alternate layers. Total thickness of shim pack shall be 3" min. but shall not exceed thickness of existing shims they replace. Actual thickness will be determined by the Engineer after completion of Phase A.

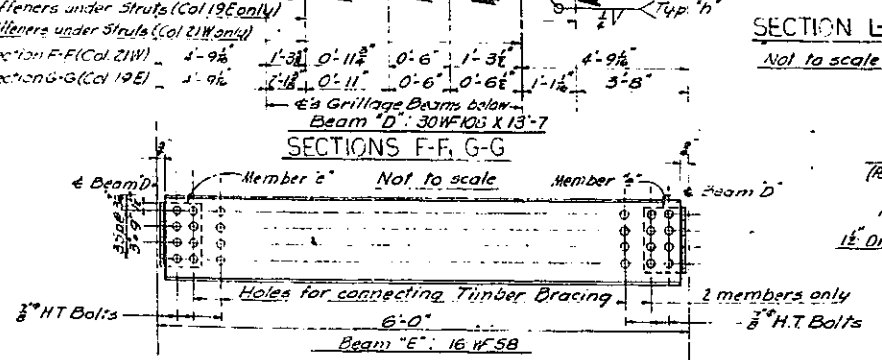
NOTES

- 1- Structural Steel A.S.T.M. A-7. No painting.
- 2- High Strength Bolts A.S.T.M. A-325.
- 3- Concrete for restoration of bridge to meet specifications for original construction.
- 4- Concrete for temporary bearing pads 1:1 1/2:3 mix, aggregate 3/4".
- 5- Dielectric shims - Micarta Grade 386, 35 manufacture by Westinghouse Electric Company.
- 6- Timber Post & Bracing - Douglas Fir, Construction type.

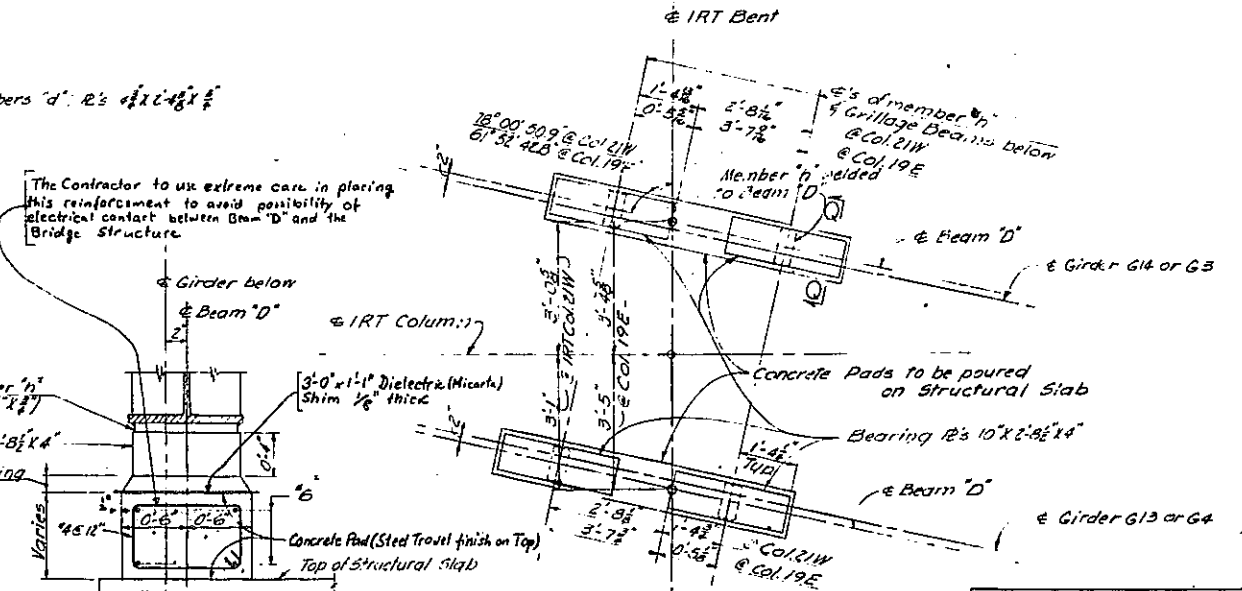
- 7-25-63 Note & Dielectric Shim on Set 0-2 added
- 6-17-63 General Revisions
- 6-27-63 General Revisions



SECTION L-L
Not to scale



SECTION M-M
Not to scale



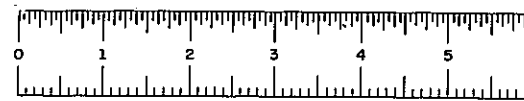
SECTION Q-Q
Scale: 1" = 1'-0"

SECTION P-P
Not to scale

Phase (B) Details Shown On This Sheet Were Not Required

In Charge of: M.A. Doherty
 Made By: H.C. Patterson
 Traced By: J.A. S. C.R.

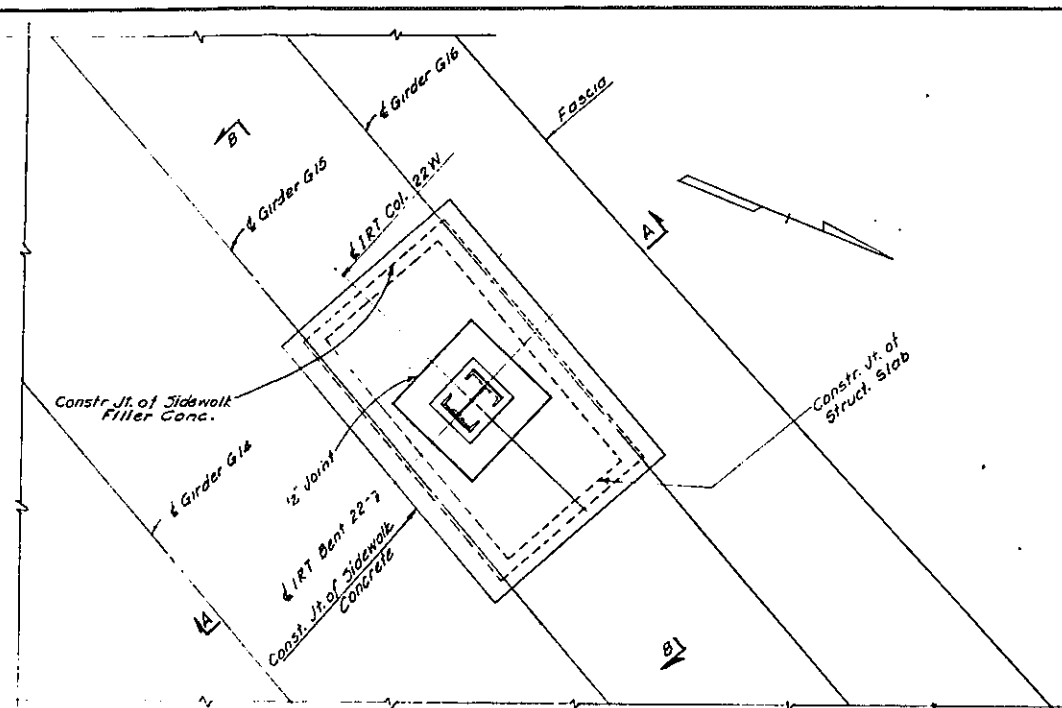
ARTHUR V. SHEP-DAN EXPRESS, INC.			
UNDEPASS AT WEST HESTER AVENUE			
ELIMINATION OF STRAY CURRENTS			
PHASE (B) - JACKING DETAILS			
DRAWING NO. A-22	SCALE AS NOTED	DATE MAY 20, '63	SHEET NO. A-22
SHUMAVON, BUCKLEY & GOUL CONSULTING ENGINEERS NEW YORK			



FED. NO. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	E 1 (278-1 (45))	A-25	

GRADING, DRAINAGE, STRUCTURES, UTILITIES, PAVING, LIGHTING & MISC. WORK - LOWELL ST. TO E. TREMONT AVE.

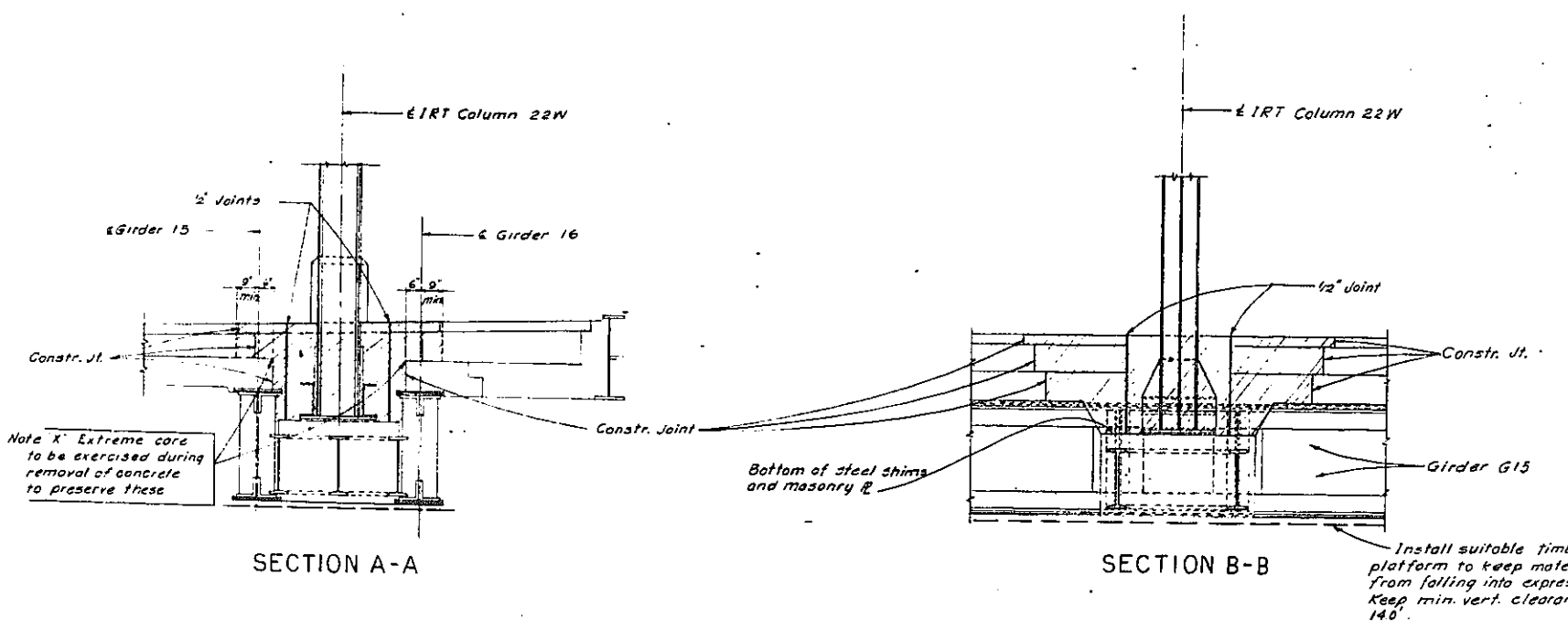
CONTRACT 2



SEQUENCE OF OPERATIONS

- PHASE A**
1. Install temporary fencing and barricades on top of Bridge and Platform at bottom of Bridge Girders at I.R.T. Column 22W.
 2. Cut out and remove sidewalk, curb and structural slab around I.R.T. Columns 22W down to the bottom of masonry plate, as shown by the hatched areas in Sections A-A & B-B. Begin concrete removal operation by saw-cutting top 2" of exposed concrete sidewalk and curb surfaces. Bend wire mesh and reinforcing bars to clear hole.
 3. The Engineer will perform electric tests to determine if removal of concrete has eliminated the stray currents.
 4. Proceed to Phase B and order materials therefor only if test results indicate that stray currents persist and only if so directed by the Engineer.
 5. If the Engineer finds Phase B unnecessary, reinforcing bars and wire mesh shall be bent back in proper position, any cut bars respliced, concrete expansion joint filler replaced and all work restored to match the existing structure. Work is to be carefully executed so as to prevent any stray currents from reoccurring in the complete work.

- Notes:**
1. Only Details for Phase A are shown at this time. Details for Phase B will be added when required.
 2. All Contract Provisions relative to safety, responsibility of Contractor, transit Authority requirements and other applicable matter specified for Contract Item 421 shall be equally applicable to work shown on this drawing.

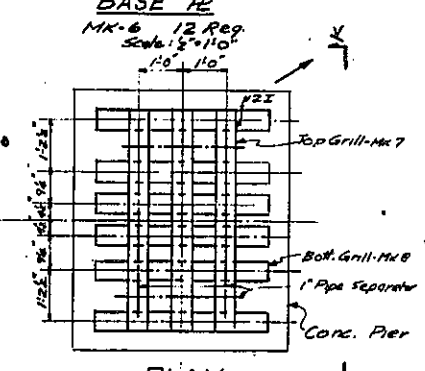
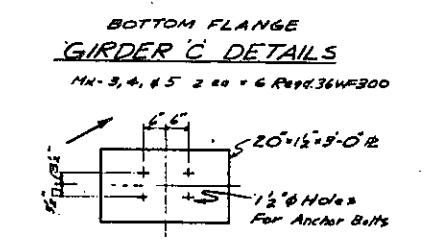
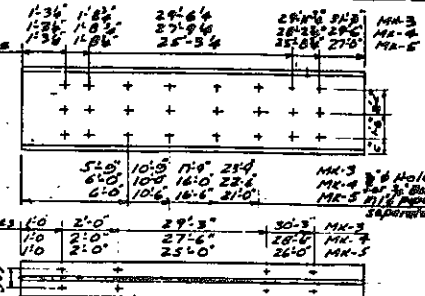
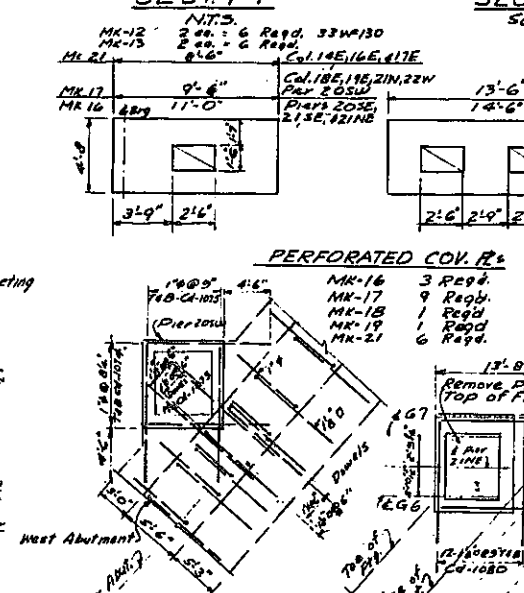
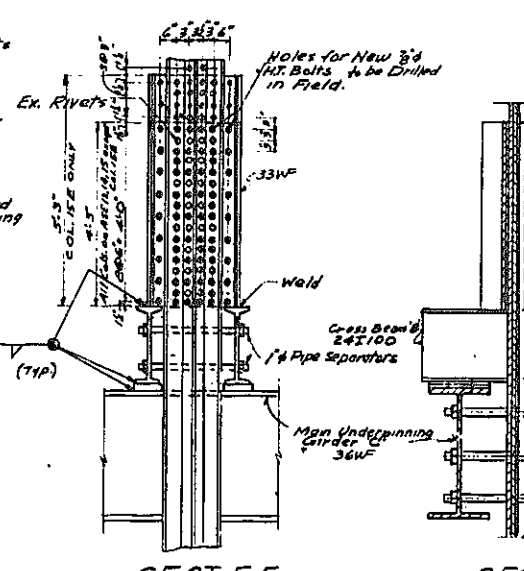
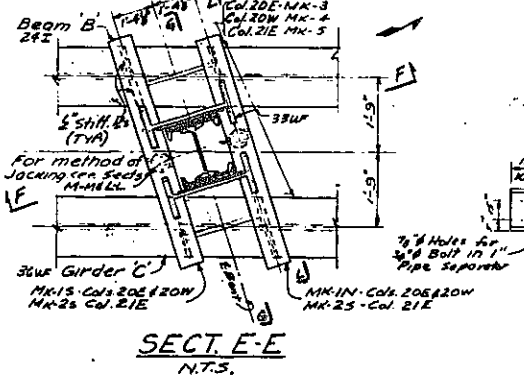
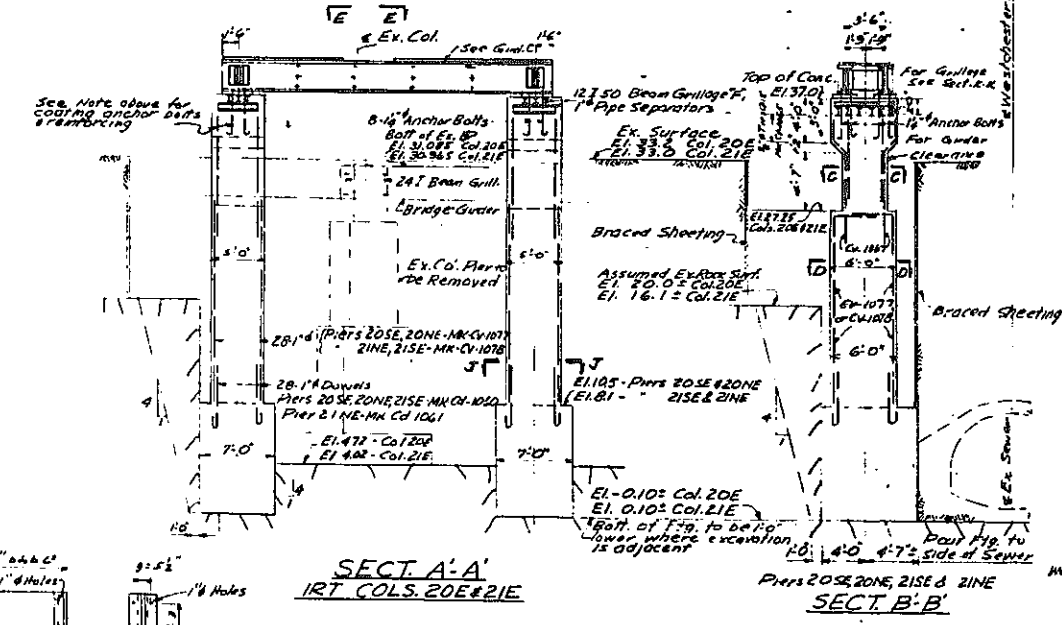
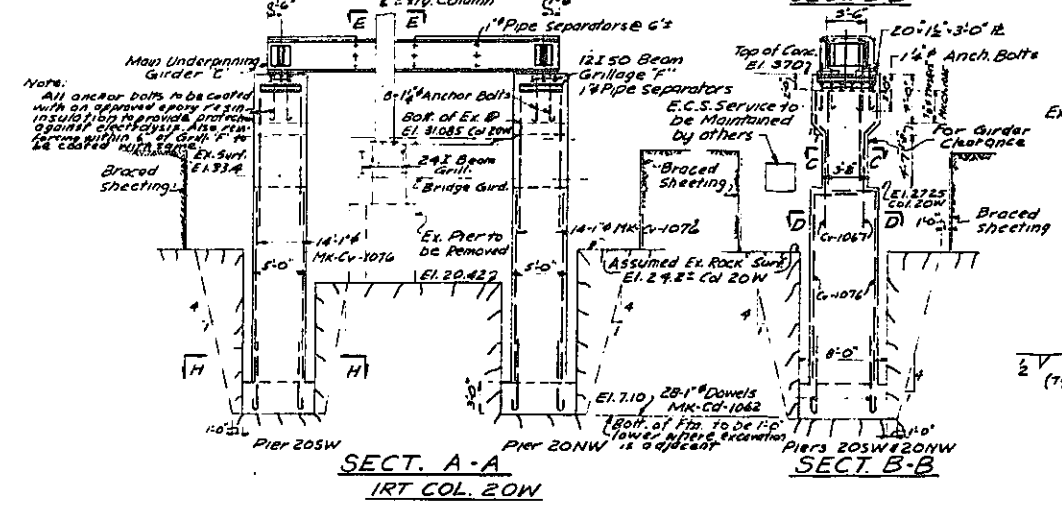
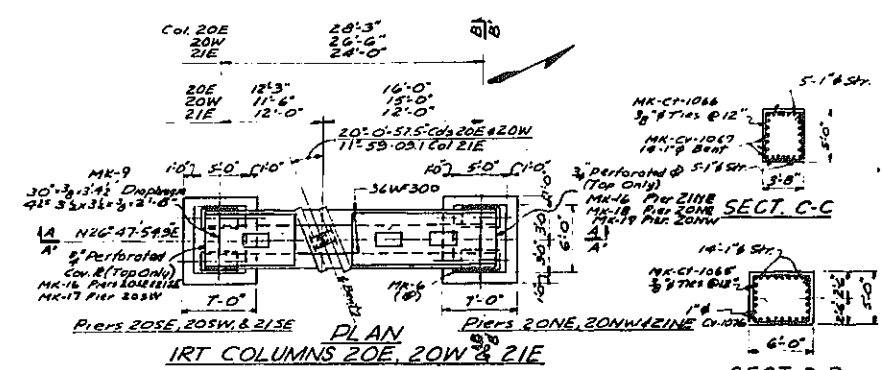


In Charge of...
 Made By...
 Traced By...
 Checked By...

ARTHUR V. SHERIDAN EXPRESSWAY			
UNDERPASS AT WESTCHESTER AVENUE ELIMINATION OF STRAY CURRENTS			
PHASE (A) - CONCRETE REMOVAL, COL. 22W			
DRAWING NO.	SCALE	DATE	SHEET NO.
	3/8" = 1'-0"	8-22-63	A-25
SHUMAVON, BUCKLEY & GOUL CONSULTING ENGINEERS NEW YORK			

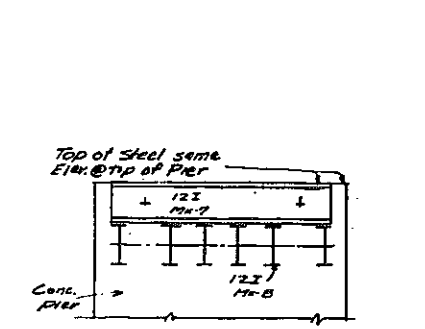


FIASE 60-1



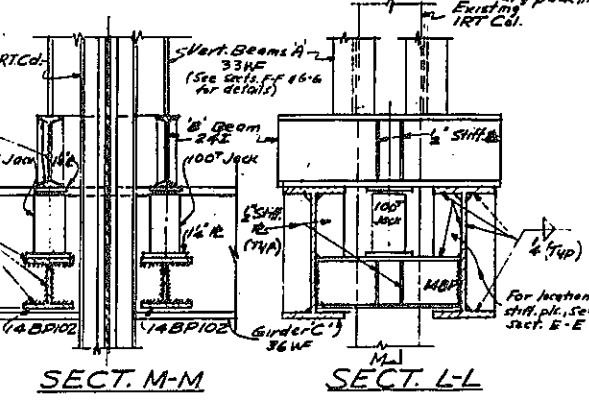
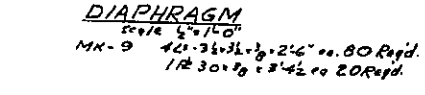
PROCEDURE FOR UNDERPINNING IRT COLUMNS 20E, 20W, & 21E

1. Connect Vertical Beams A and perforated filler plates for the column flanges with high tensile bolts.
2. Excavate sheeted pit to top of existing rock. Excavate rock pit to subgrade of new temporary concrete underpinning piers. Construct the concrete piers.
3. Place man Underpinning Girder C & Cross Beam B. Transfer column load to Girder C by means of post. Insert steel shim plates between Beams B & Girder C. Weld shim plates to beams.
4. Remove existing column Pier.
5. Completely construct the bridge, including the wearing course for the roadway & sidewalk, except the area around the IRT column & the temporary underpinning piers.
6. Field drill 1 1/2" holes in the bridge girder web to make open holes in the 2x1 beam Grillage & bolt.
7. Pour the concrete encasement of the 2x1 beam grillage.
8. Dry pour between the existing base plate and the top of the concrete encasement.
9. Remove all temporary beams, girders, cribbing, sheeting etc.
10. Remove the temporary concrete underpinning piers.
11. Complete construction in the area around the column.



NOTES

1. For General Notes for IRT Col. Underpinning, See Cont. Dwg. 75
2. For Reinforcing Schedule, See Dwg. ASE-14
3. Any settlement in elevated columns as determined by Transit Authority field engineer shall be taken up by racking column against bridge girder and load transferred to grillage beams by dry packing.



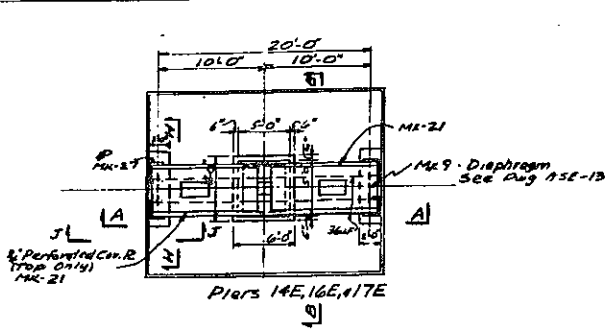
STATE OF NEW YORK
DEPT. OF PUBLIC WORKS
CONTRACT - FIASE 60-1
ARTHUR V. Sheridan EXPRESSWAY

TEMPORARY
UNDERPINNING
AT IRT COLS 20E, 20W & 21E

POIRIER & McLANE CORPORATION
ENGINEERS - CONTRACTORS
33 WEST 42nd ST. NEW YORK, N. Y.

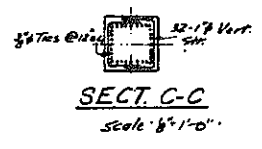
DRAWN BY: SK
CHECKED BY: SK DATE: 5-26-61

CONSTR. DWG. No. A SE-13

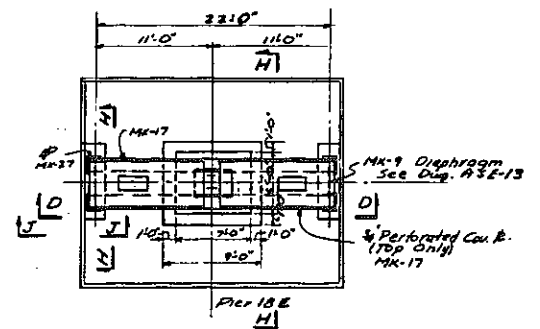


PLAN
Scale: 8"=1'-0"
IRT COLS. 14E, 16E, 17E

NOTE:
For Sects. J-J & H-H showing Bearing Wall, see same Sects. on Const. Dwg. A SE-18. For Anchor Bolt Location & Base R(MK-21) Details, see same Dwg.
MK-27 4 ea. = 12 Req'd

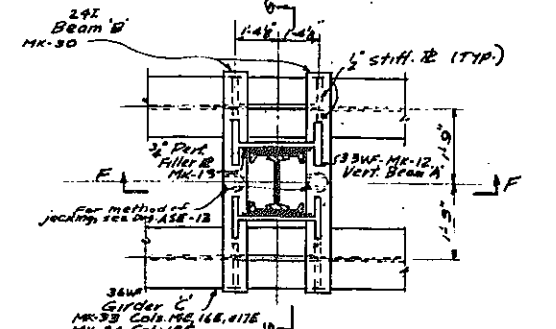


SECT. C-C
Scale: 8"=1'-0"



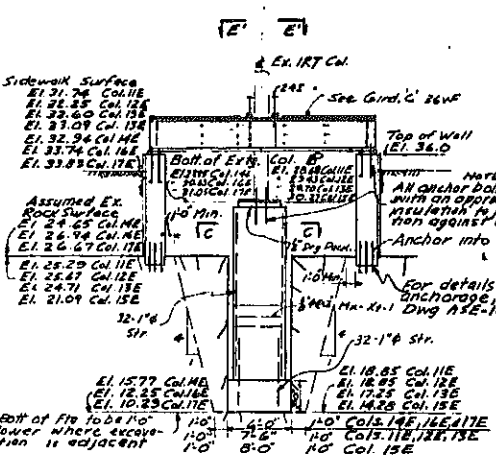
PLAN
Scale: 8"=1'-0"
IRT COL 18E

NOTE:
See note under PLAN IRT Cols. 14E, 16E, 17E.
MK-27 4 Req'd

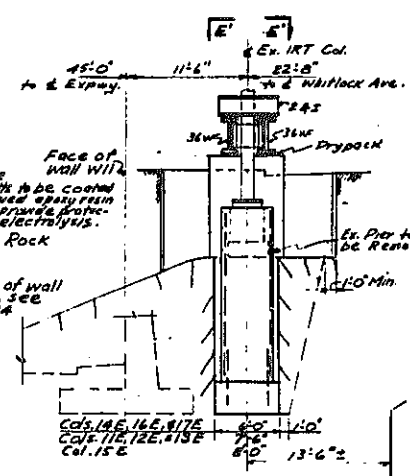


PLAN E-E
Scale: 8"=1'-0"

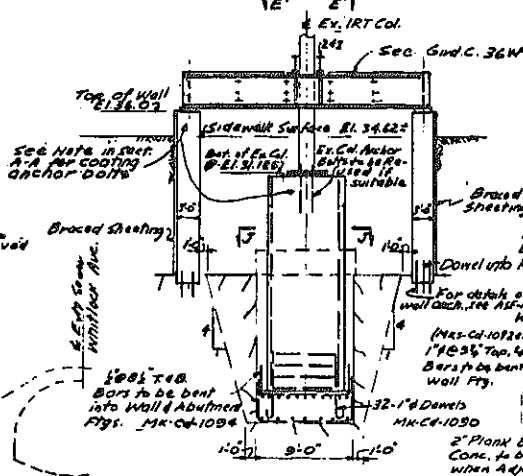
NOTE:
For Sects. F-F & G-G, see Const. Dwg. A SE-18, same Sects. See same Dwg for details of MK-Na 18 & 13



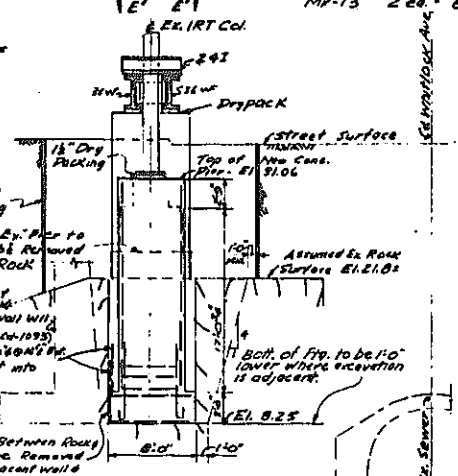
SECT. A-A
Scale: 8"=1'-0"



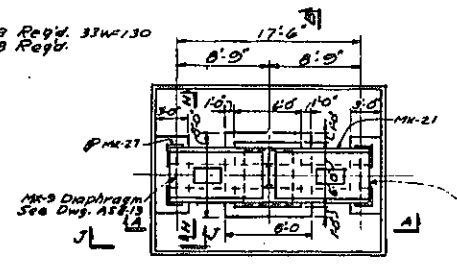
SECT. B-B
Scale: 8"=1'-0"



SECT. D-D
Scale: 8"=1'-0"

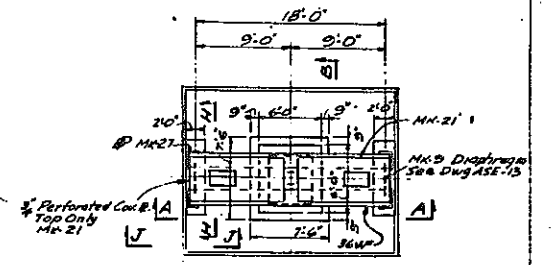


SECT. H-H
Scale: 8"=1'-0"



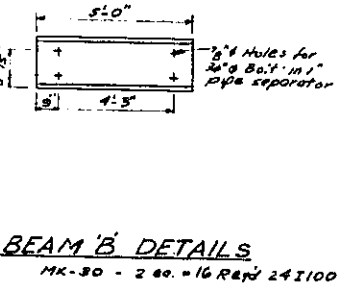
PLAN
Scale: 8"=1'-0"
Pier 15E
IRT COL 15E

NOTE:
See note under PLAN IRT Cols. 14E, 16E, 17E. For Sects. A-A & B-B, see this sheet

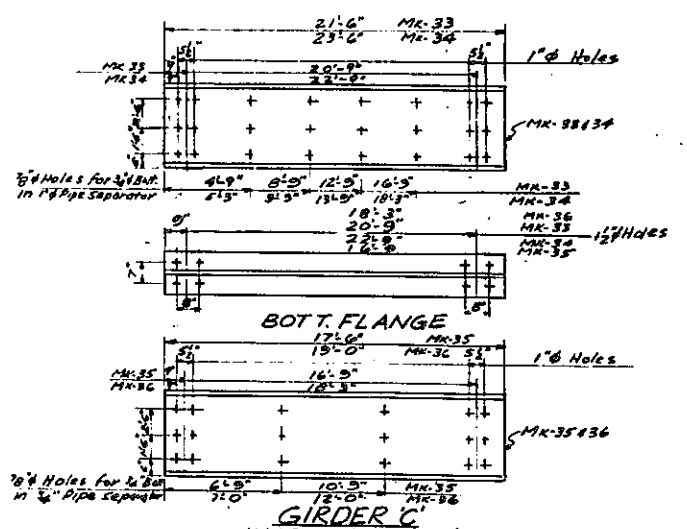


PLAN
Scale: 8"=1'-0"
Piers 11E, 12E, 13E
IRT COLS 11E, 12E, 13E

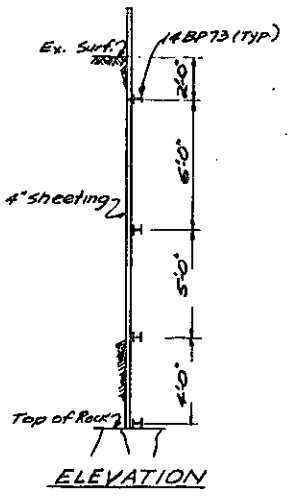
NOTE:
See note under PLAN IRT Cols. 14E, 16E, 17E. For Sects. A-A & B-B, see this sheet



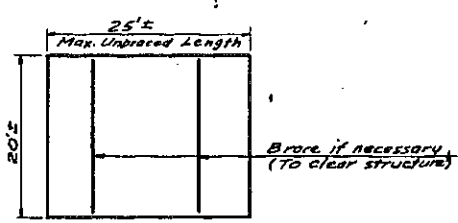
BEAM B DETAILS
MK-30 - 2 ea. = 16 Req'd 24 I100



GIRDER C
MK-33 2 ea. = 2 Req'd 36W300
MK-34 2 ea. = 2 Req'd 36W300
MK-35 2 ea. = 6 Req'd 36W300
MK-36 2 ea. = 2 Req'd 36W300



ELEVATION



BRACING PLAN
All bracing - 14BPT3

NOTES
1. For General Notes for IRT Column Underpinning, see Const. Dwg. 75
2. For Retaining Wall Details, see Const. Dwg. A SE-14
3. For Method of Jacking, see Dwg. A SE-13
4. No horizontal pressures to be taken by temporary walls.

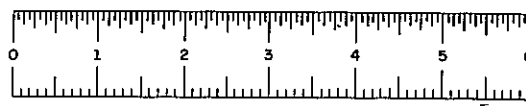
Checked by	11-24-61
Reviewed by	11-24-61
Approved by	11-24-61
Scale	As Shown
Date	11-24-61
Drawn by	11-24-61

STATE OF NEW YORK
DEPT. OF PUBLIC WORKS
CONTRACT - FIASE 60-1
ARTHUR V. SHERIDAN EXPRESSWAY

TEMPORARY UNDERPINNING
AT IRT COLS. 11E TO 18E INC.

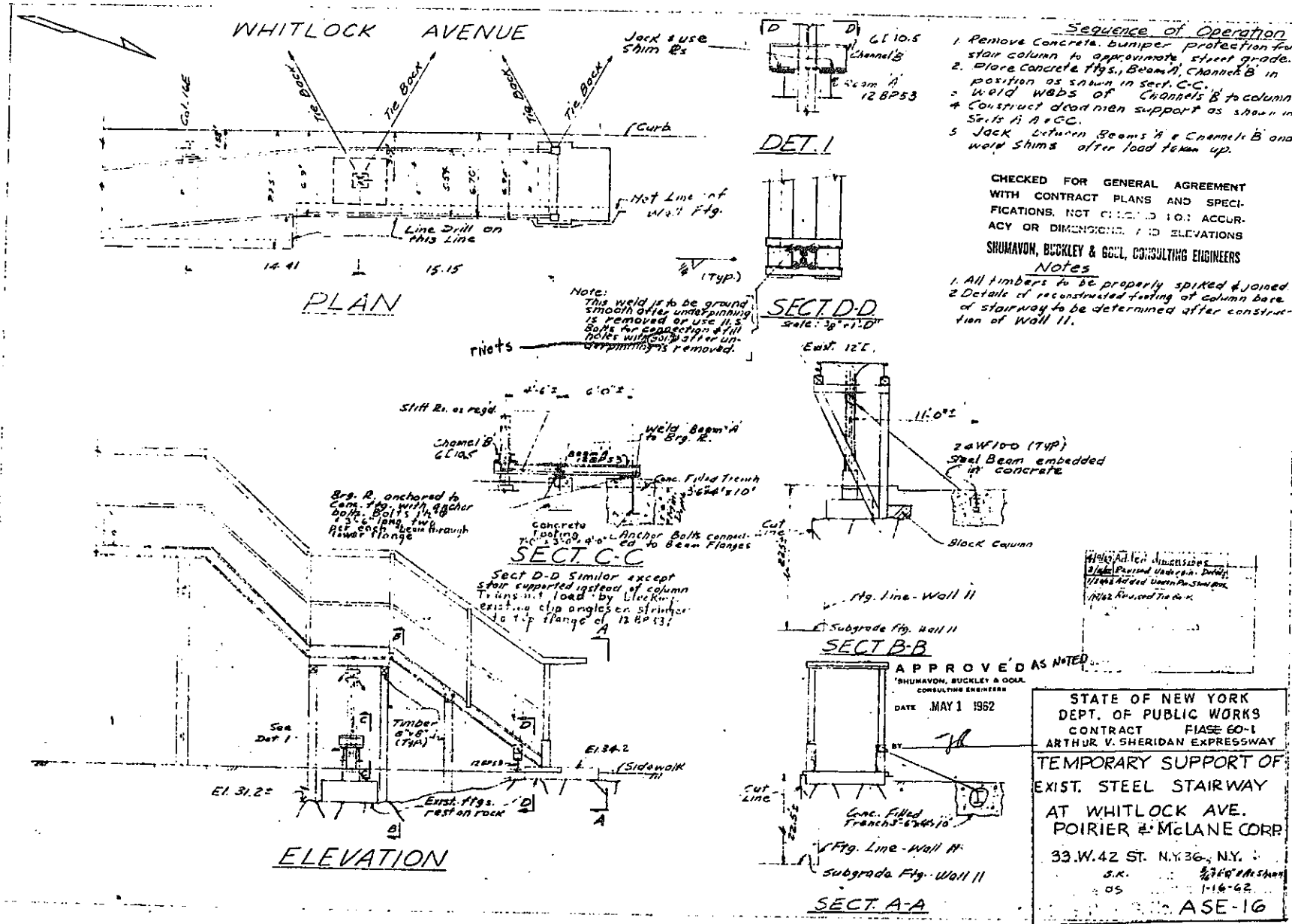
POIRIER & McILWINE CORPORATION
ENGINEERS - CONTRACTORS
33 WEST 42ND ST., NEW YORK 36, N. Y.

DRAWN BY: SK SCALE: As Shown
CHECKED BY: DATE: 6-2-61
CONSTR. DWG. No. A SE-15



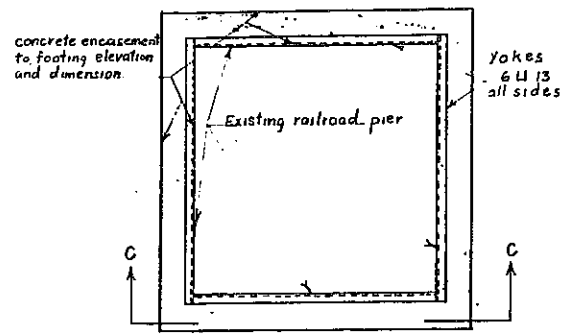
FIASE 60-1

ASE-16

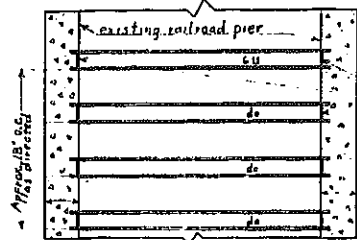




FIASE 60-1



METHOD OF STRENGTHENING PIERS

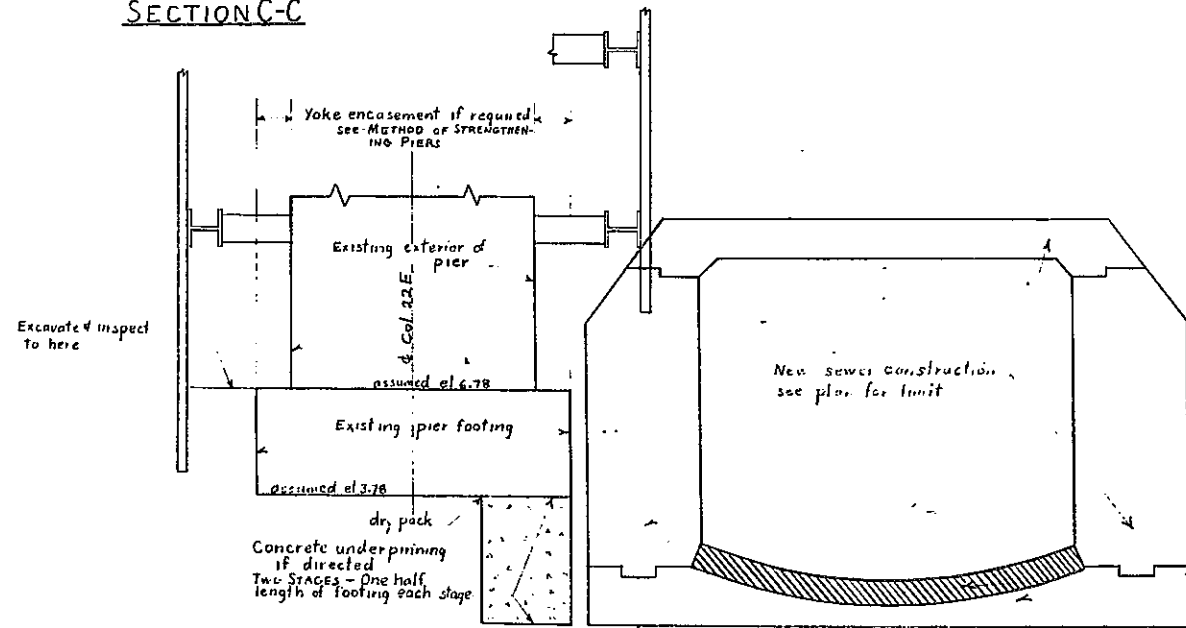


To be followed where and as directed by New York City Transit Authority

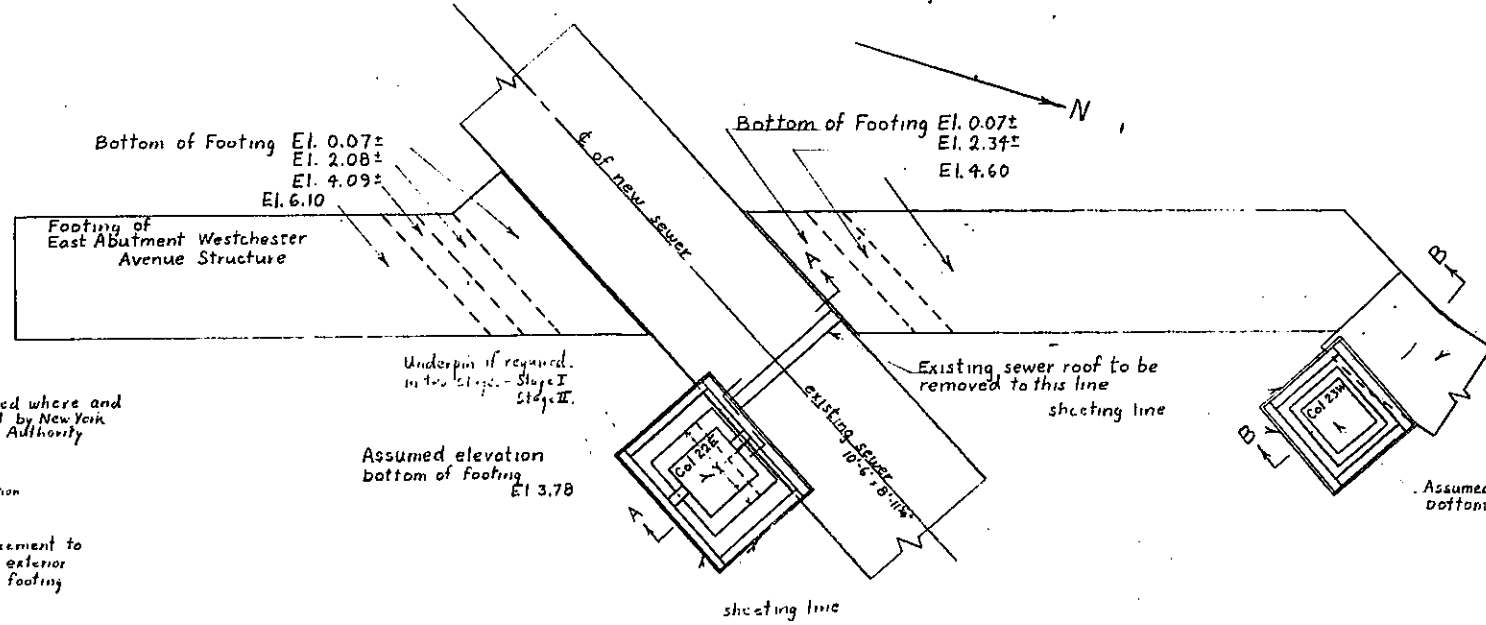
1/4" each connection

concrete encasement to elevation and exterior dimension of footing

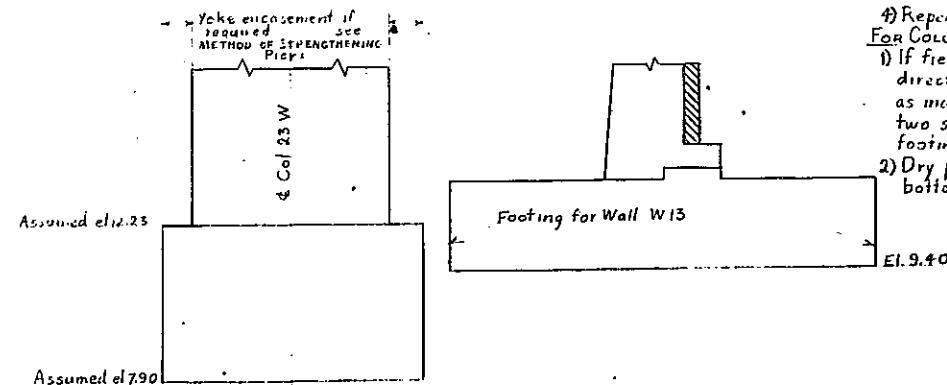
SECTION C-C



SECTION A-A
scale 1/2" = 1'-0"



scale 1/8" = 1'-0"



SECTION B-B
scale 1/2" = 1'-0"

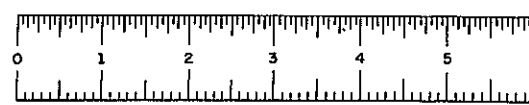
PROCEDURE

The New York City Transit Authority has directed that work on this drawing be performed as required in order to safeguard their facilities, in view of the fact that deterioration of existing piers was uncovered elsewhere during underpinning of other piers by the Contract Documents.

Work indicated on this drawing was not contemplated under the subject contract and is beyond the scope of that contract.

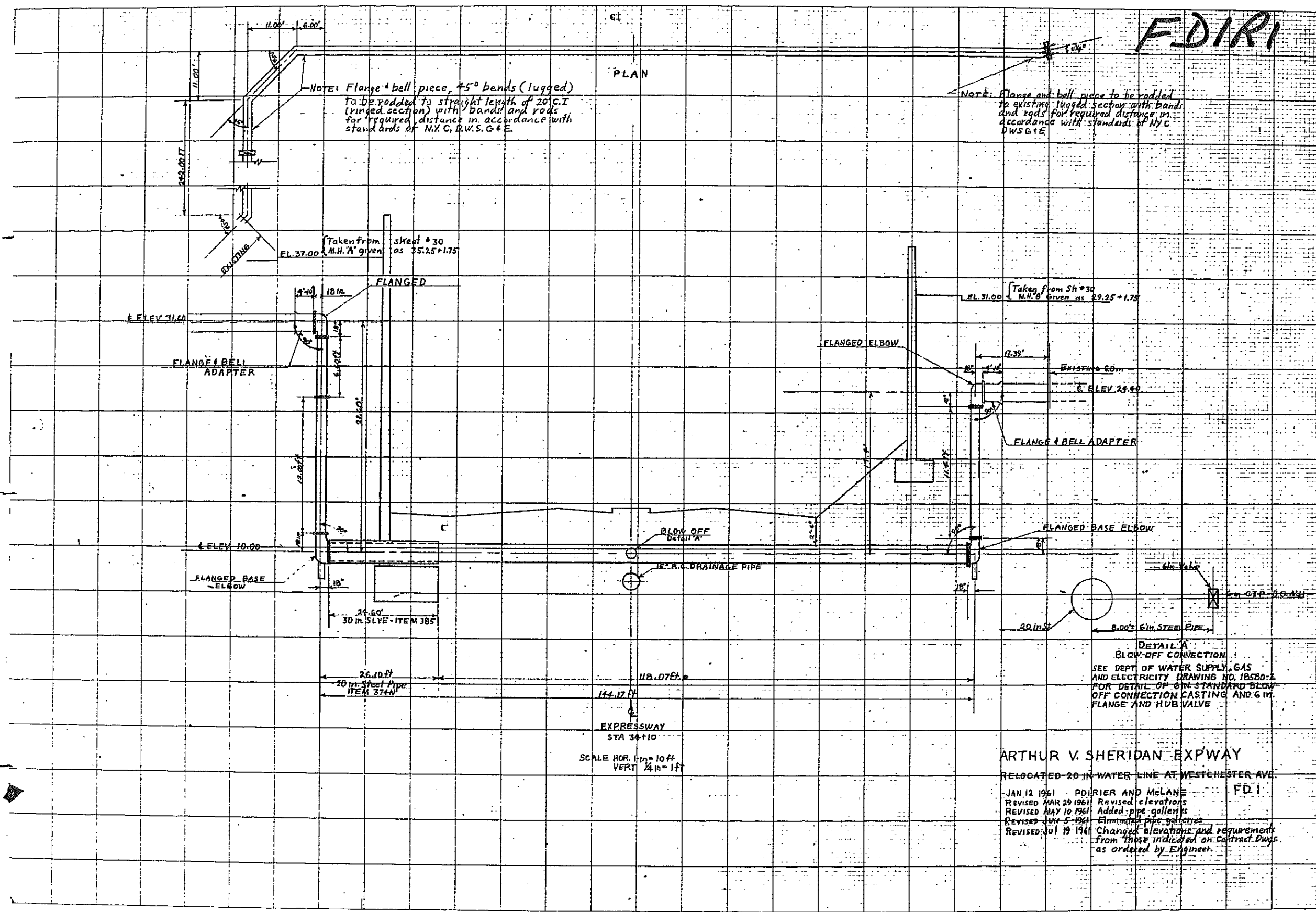
- For Columns 22E and 23W
- 1) Excavate and expose existing concrete piers to lower elevations of and in advance of adjacent general excavation.
 - 2) If existing concrete piers are found to be seriously cracked or deteriorated, enclose in concrete where and as directed.
 - 3) Expose piers to a depth of approximately 18 inch and strengthen before proceeding with further exposure of pier.
 - 4) Repeat procedure to top of existing footing.
- For Column 22E
- 1) If field conditions so warrant and if directed, underpin existing pier footing as indicated in Section A-A. Underpin in two stages - one half the length of footing in each stage.
 - 2) Dry pack between underpinning and bottom of existing pier footing.

STATE OF NEW YORK
DEPT. OF PUBLIC WORKS
CONTRACT FIASE 60-1
ARTHUR V. SHERIDAN, EXPRESSWAY
ADDITIONAL SUPPORTS, REPAIRS
AND STRENGTHENINGS OF
IRT FACILITIES
FOURER & McLARE CORPORATION
ENGINEERS - CONTRACTORS
38 WEST 42ND ST., NEW YORK 36, N. Y.
CHECKED BY: P.E.S. DATE: AS SHOWN
DRAWN BY: A.V.S. DATE: FEB. 21, 1952.
CONSTR. DWG. No. ASE 1B



FIASE 60-1

FDIRI



NOTE: Flange & bell piece, 45° bends (lugged) to be rodDED to straight length of 20' C.I. (lugged section) with bands and rods for required distance in accordance with standards of N.Y.C. D.W.S.G.&E.

NOTE: Flange and bell piece to be rodDED to existing lugged section with bands and rods for required distance in accordance with standards of N.Y.C. D.W.S.G.&E.

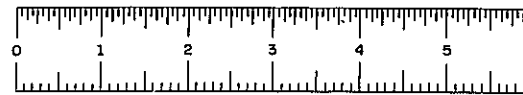
Taken from Sheet # 30 M.H. 'A' given as 35.25 + 1.75

Taken from Sh # 30 M.H. 'B' given as 29.25 + 1.75

DETAIL 'A'
BLOW-OFF CONNECTION
SEE DEPT OF WATER SUPPLY, GAS AND ELECTRICITY DRAWING NO. 18580-E FOR DETAIL OF 6 IN. STANDARD BLOW-OFF CONNECTION CASTING AND 6 IN. FLANGE AND HUB VALVE

SCALE HOR. 1" = 10' ft
VERT. 1/4" = 1' ft

ARTHUR V. SHERIDAN EXP'WAY
RELOCATED 20 IN. WATER LINE AT WESTCHESTER AVE.
F D I
JAN 12 1961 P. O. RIER AND McLANE
REVISED MAR 29 1961 Revised elevations
REVISED MAY 10 1961 Added pipe galleries
REVISED JUL 5 1961 Eliminated pipe galleries
REVISED JUL 19 1961 Changed elevations and requirements from those indicated on Contract Drawg. as ordered by Engineer.



FIASE 60-1

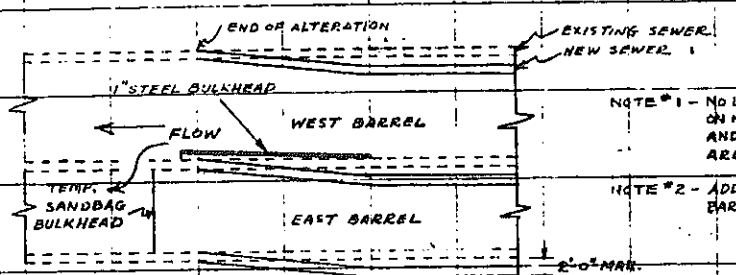
FDIR2

PROCEDURE

1. BULKHEAD NORTH AND SOUTH PORTAL OF EAST BARREL OF SEWER AND DIVERT FLOW TO WEST BARREL AS SHOWN IN PLAN VIEW.
2. BULKHEAD COMMON WALL AT EACH MANHOLE AND DEWATER EAST BARREL.
3. DEMOLISH EXISTING EAST BARREL AS SHOWN IN TYPICAL SECTION.
4. PROCEED WITH CONSTRUCTION OF EAST BARREL - POURING INVERT, WALLS AND ROOF OF EAST BARREL AS PER CONSTRUCTION JOINTS SHOWN.
5. RE-POST ROOF OF NEW EAST BARREL UNTIL ADJACENT ROOF SECTION OF WEST BARREL IS COMPLETED.
6. DIVERT FLOW TO EAST BARREL AND FOLLOW SAME PROCEDURE FOR CONSTRUCTION OF WEST BARREL INCLUDING BULKHEADS ETC.

TRANSITION PROCEDURE

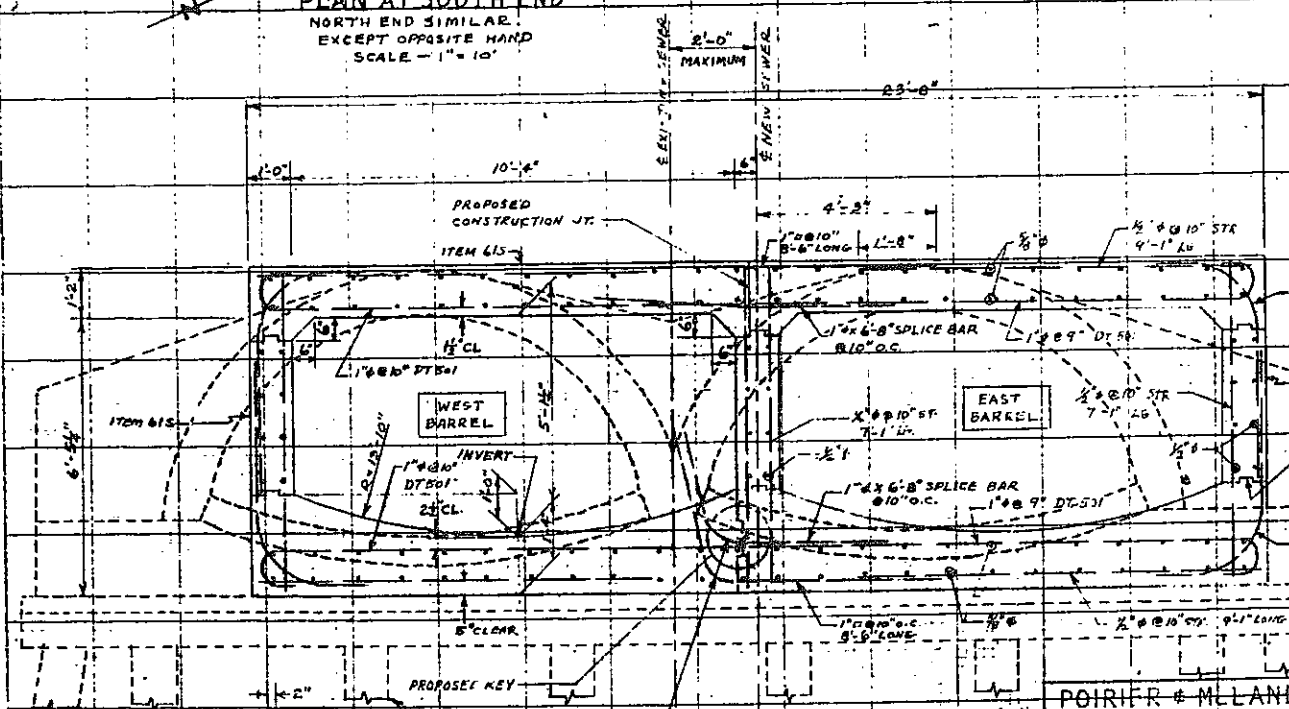
1. SLOT ROOF OF WEST BARREL TO PERMIT THE INSERTION OF STEEL PLATE.
2. REMOVE TOP OF WEST BARREL AS REQUIRED.
3. MAINTAIN FLOW IN WEST BARREL.
4. DEMOLISH EXISTING COMMON WALL AND CONSTRUCT NEW WALL.
5. CROSS-SECTIONAL AREA OF WEST BARREL SHALL BE KEPT AT FULL SIZE EXCEPT AS NECESSARY TO INSERT 1" STEEL BULKHEAD.
6. HEIGHT OF STEEL BULKHEAD SHALL BE AT LEAST AS HIGH AS EXISTING SEWER.



NOTE #1 - NO LOAD SHALL BE PLACED ON NEW ROOF UNTIL EAST AND WEST BARREL ROOFS ARE COMPLETED.

NOTE #2 - ADDITIONAL REINFORCING BARS AT NO COST TO THE STATE.

PLAN AT SOUTH END
NORTH END SIMILAR
EXCEPT OPPOSITE HAND
SCALE - 1" = 10'



THESE 2 BARS TO BE BENT TO A MINIMUM RADIUS OF 10" AND STRAIGHTENED OUT LATER EXISTING PILES WHERE THEY ARE FOUND

KEY
(NO SCALE)

TYPICAL SECTION
SCALE 1/2" = 1 FT

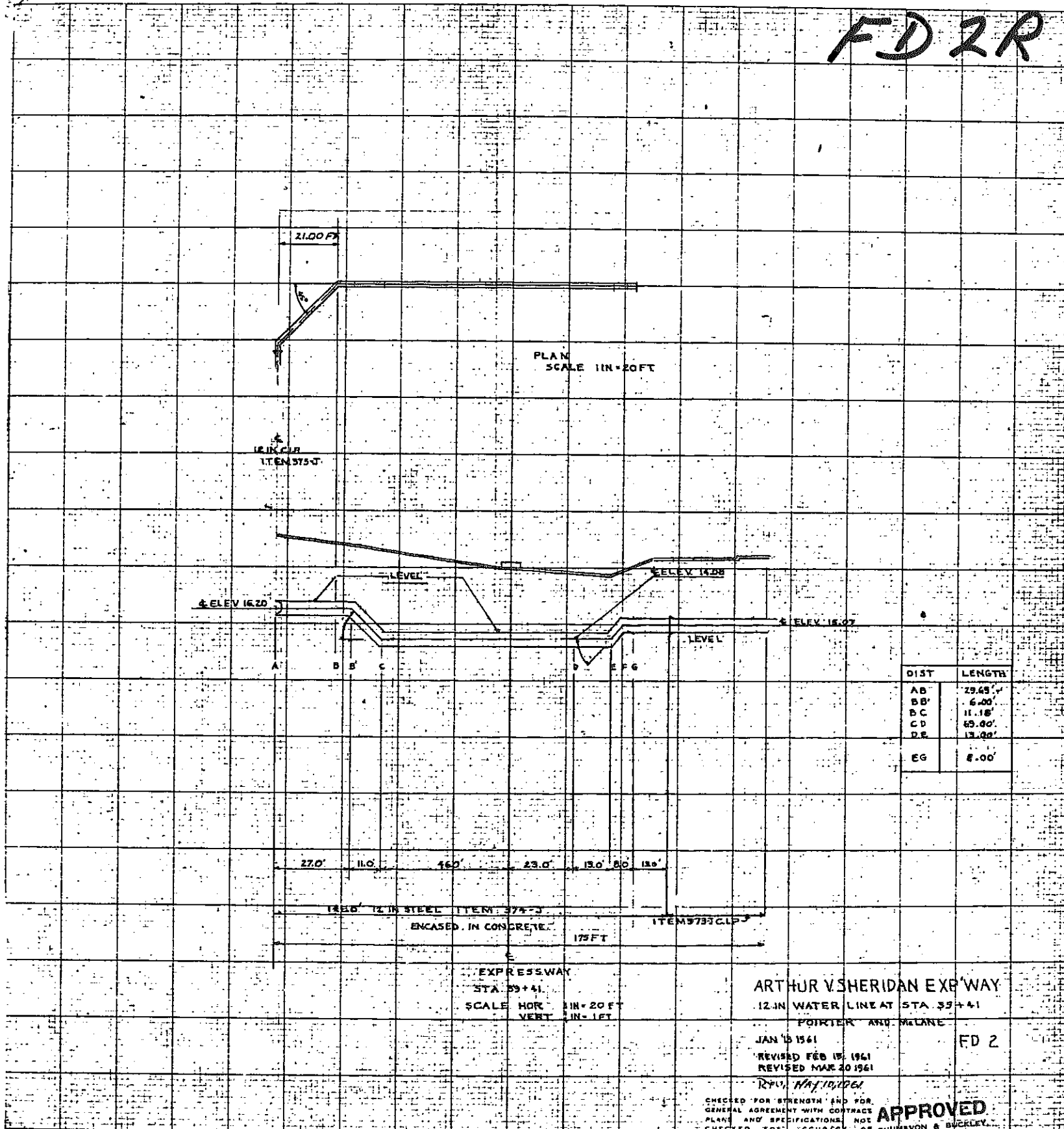
POIRIER & MCLANE CORP.	
SEWER ALTERATION AT E172 STREET	
SCALE AS SHOWN ON DRAWING	DRAWN BY LIS
SHERIDAN EXPRESSWAY	
FIASE 60-1	FD-1

REVISED 11/11/61
REVISED 12/11/61



FIASE 60-1

FD 2R



DIST	LENGTH
AB	29.65'
BB'	6.00'
BC	11.18'
CD	65.00'
DE	13.00'
EG	8.00'

EXPRESSWAY
STA 39+41
SCALE HOR 1" = 20 FT
VERT 1" = 1 FT

ARTHUR V. SHERIDAN EXP'WAY
12 IN WATER LINE AT STA 39+41
PORTER AND MELANE
JAN 15 1961
REVISED FEB 15 1961
REVISED MAR 20 1961

FD 2

CHECKED FOR STRENGTH AND FOR
GENERAL AGREEMENT WITH CONTRACT
PLANS AND SPECIFICATIONS
CHECKED FOR ACCURACY OF DIMENSIONS
AND ELEVATIONS. CONSULTING ENGINEERS

APPROVED

SHUMWAY & BUCKLEY CONSULTING ENGINEERS
DATE 6-6-61 BY E.J.R.

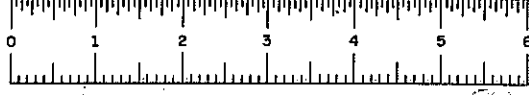
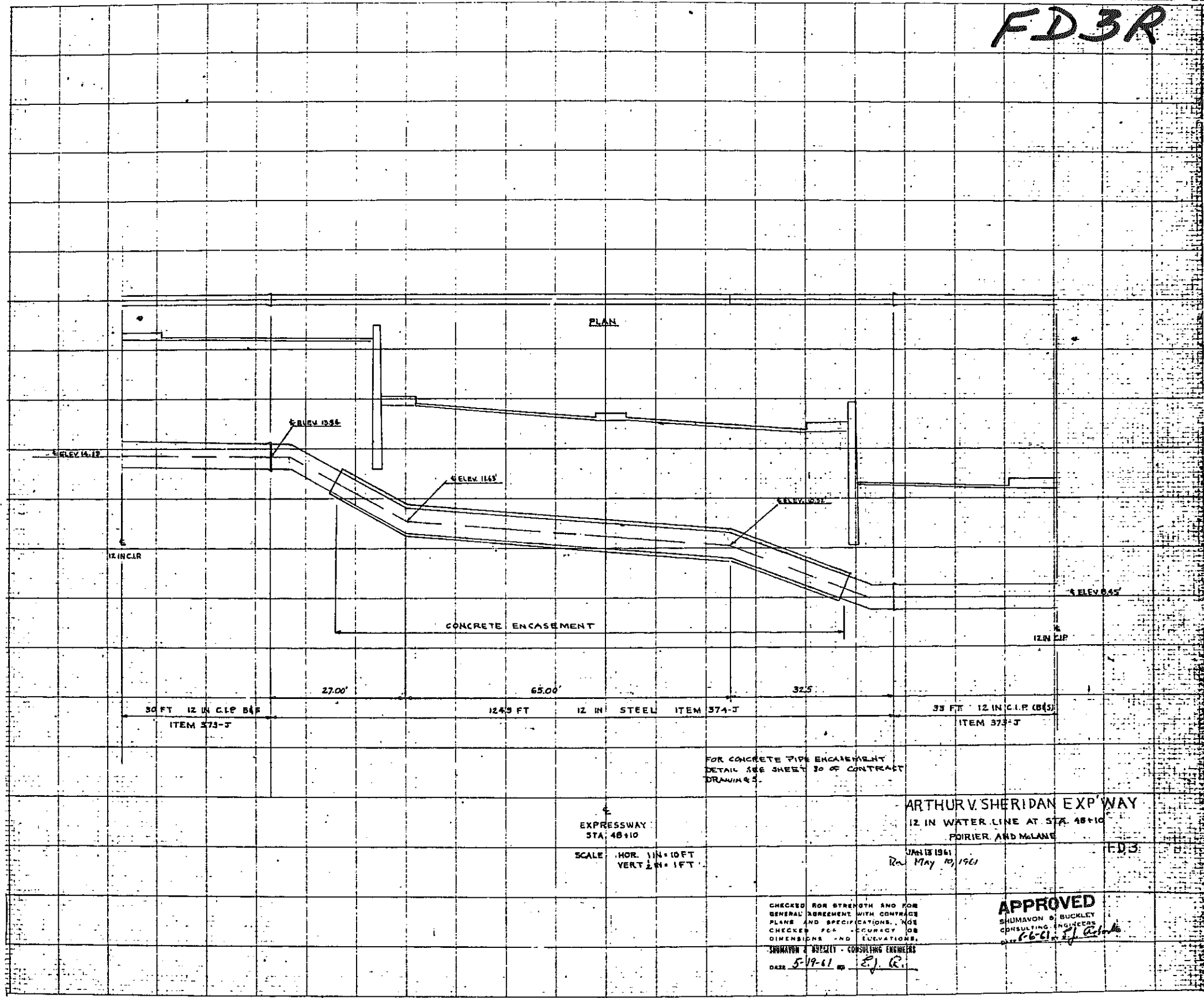


PLATE 60-1

FD3R



EXPRESSWAY
STA. 48+10
SCALE HOR. 1" = 10 FT
VERT. 1" = 1 FT

ARTHUR V. SHERIDAN EXP'WAY
12 IN. WATER LINE AT STA. 48+10
FOURIER AND McLANE
JAN 13 1961
Rev. May 10, 1961

CHECKED FOR STRENGTH AND FOR
GENERAL AGREEMENT WITH CONTRACT
PLANS AND SPECIFICATIONS. NOT
CHECKED FOR ACCURACY OF
DIMENSIONS AND ELEVATIONS.
SHUMAVON & BUCKLEY - CONSULTING ENGINEERS
DATE 5-19-61 E.J.R.

APPROVED
SHUMAVON & BUCKLEY
CONSULTING ENGINEERS
E.J.R.