SPOKANE TRANSIT AUTHORITY

SCC TRANSIT CENTER

PROJECT #2018-10258

Property/Project Information:

PARCEL NO: 35105.3501

ADDRESS: 1810 N. GREEN ST.
SPOKANE WA, 99217

ZONING: LI

OWNER: WASHINGTON STATE DEPARTMENT GENERAL ADMIN.

Sheet Index:

Contact Information:

PROPERTY OWNER:
TAXPAYER NAME: COMMUNITY COLLEGES OF SPOKANE
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VICINITY MAP

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LASTING creativity | results | relationships

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: COVER SHEET

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN BLW
CHECKED CBM
DATE 02/10/2019

SHEET G-001

ARCHITECTURAL ABBREVIATIONS

&	AND	DT	DRAIN TILE
∠	ANGLE	DTA	DOVETAIL ANCHOR
@	AT	DTL	DETAIL
℄	CENTER LINE	DTS	DOVETAIL ANCHOR SLOT
O	DIAMTER or ROUND	DW	DUMBWAITER
⊥	PERPENDICULAR	DWG	DRAWING
#	POUNDS or NUMBER	DWR	DRAWER
″	TIMES or BY	'E'	
ℙ	PROPERTY LINE	E	EAST
		(E)	EXISTING
'A'		EA	EACH
AB	ANCHOR BOLT	EHD	ELECTRIC HAND DRYER
ABC	AGGREGATE BASE COURSE	EIFS	EXTERIOR INSULATION
ABV	ABOVE		FINISH SYSTEM
AC	ASPHALTIC CONCRETE	EJ	EXPANSION JOINT
A/C	AIR CONDITIONING	EL	ELEVATION
ACC	ACCESS	ELEC	ELECTRIC(AL)
ACFL	ACCESS FLOOR	ELEV	ELEVATOR
ACID RES	ACID RESISTANT	EMER	EMERGENCY
ACP	ACOUSTICAL PANEL	ENCL	ENCLOSURE
ACT	ACOUSTICAL TILE	ENGR	ENGINEER
AD	AREA DRAIN	ENTR	ENTRANCE
ADD	ADDENDUM	ESMT	EASEMENT
ADH	ADHESIVE	EP	ELECTRICAL PANEL
ADJT	ADJUSTABLE	EQ	EQUAL
AF	ACCESS FLOOR	EQUIP	EQUIPMENT
AFF	ABOVE FINISH FLOOR	EST	ESTIMATE
AFG	ABOVE FINISH GRADE	EW	EACH WAY
AFS	ABOVE FINISH SLAB	EWC	ELECTRICAL WATER COOLER
AGGR	AGGREGATE	EXCA	EXCAVATE(ION)
ALT	ALTERNATE	EXH FN	EXHAUST FAN
ALUM	ALUMINUM	EXH HD	EXHAUST HOOD
ANOD	ANODIZED	EXIST	EXISTING
AP	ACCESS PANEL	EXP	EXPANSION, EXPOSED,
APC	ACOUSTICAL PANEL CEILING		EXPOSURE
APPROX	APPROXIMATE(LY)	EXP BT	EXPANSION BOLT
ARCH	ARCHITECT(URAL)	EXT	EXTERIOR
ASB	ASBESTOS	EXT LT	EXIT LIGHT
ASKLR	AUTOMATIC SPRINKLER		
ASPH	ASPHALT	'F'	
ASSY	ASSEMBLY	FA	FIRE ALARM, FRESH AIR
ASTM	AMERICAN SOCIETY for TESTING & MATERIALS	FACP	FIRE ALARM CONTROL PANEL
		FAS	FASTEN(ER)
ATC	ACOUSTICAL TILE CEILING	FB	FIRE BOARD
ATF	ATHLETIC FLOORING	FBD	FIRE BRICK
AUTO	AUTOMATIC	FBRK	FURNISHED BY OTHERS
AWP	ACOUSTICAL WALL PANEL	FBO	FLOOR DRAIN
		FD	FIRE DEPARTMENT CONNECTION
'B'		FDC	FOUNDATION
BALC	BALCONY	FDTN	FIRE EXTINGUISHER
BB	BULLETIN BOARD	FE	FIRE EXTINGUISHER CABINET
BD	BOARD	FEC	FACTORY FINISH
BEL	BELOW	FF	FINISH FLOOR ELEVATION
BET	BETWEEN	FF EL	FURNITURE, FIXTURE &
BITUM	BITUMINOUS	FF&E	EQUIPMENT
BKG	BACKING		FINISHED FLOOR LINE
BJT	BED JOINT	FFL	FIBERGLASS
BLDG	BUILDING	FGL	FIRE HYDRANT
BLKG	BLOCKING	FH	FIRE HOSE CABINET
BLTN	BUILT-IN	FHC	FINISH(ED)
BM	BEAM	FIN	FINISH FLOOR
BOD	BOTTOM OF DECK	FIN FLR	FINISH GRADE
BOF	BOTTOM OF FOOTING	FIN GR	FLUSH JOINT
BOH	BACK OF HOUSE	FJT	FLASHING
BOJ	BOTTOM OF JOISTS	FLA	FLOOR CLEAN OUT
BOT	BOTTOM	FLCO	FLASHING
BPL	BEARING PLATE	FLG	FLOOR, FILLER
BR	BEDROOM	FLR	FLUORESCENT
BRCG	BRACING	FLUOR	FOUNDATION
BRG	BEARING	FND	FINISH OPENING
BRK	BRICK	FO	FACE OF BRICK
BRZ	BRONZE	FOB	FACE OF CONCRETE
BS	BOTH SIDES	FOC	FACE OF FINISH
BSMT	BASEMENT	FOF	FACE OF MASONRY
BUR	BUILT-UP ROOF(ING)	FOM	FACE OF STUD(S)
BVL	BEVEL	FOS	FIREPROOF
BW	BOTH WAYS	FP	FLOOR PLATE
		FPL	FRAMING
'C'		FRMG	FRAME(D)/FRAMING
CAB	CABINET	FR	FRESH AIR
CB	CATCH BASIN, CORNER BEAD	FRA	FIRE-RESISTANT COATING
CAN	CANOPY	FRC	FIBER REINFORCED POLYESTER
CANTIL	CANTILEVER	FRP	FIRE-RESISTANCE RATING
CBB	CEMENTITIOUS (BACKER) BOARD	FRR	FIRE RETARDENT
		FRTW	TREATED WOOD
CEM	CEMENT	FRZ	FREEZER
CER	CERAMIC	FS	FULL SIZE, FULL SCALE
CF	CONTRACTOR FURNISHED	FT	FOOT or FEET, FIRE TREATED
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	FTD	FACIAL TISSUE DISPENSER
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	FTG	FOOTING
		FUR	FURR(ED/ING)
CFE	CONTRACTOR FURNISHED EQUIPMENT	FUT	FUTURE
		FWC	FABRIC WALLCOVERING
CFLG	COUNTERFLASH(ING)		
CFT	CUBIC FOOT	'G'	
CG	CORNER GUARD	GA	GAUGE
CH BD	CHALKBOARD	GALV	GALVANIZED, GALVANIC
CHFR	CHAMFER	GB	GRAB BAR
CHT	CEILING HEIGHT	GC	GENERAL CONTRACTOR
CI	CAST IRON	GD	GRADE, GRADING
CIP(C)	CAST-IN-PLACE (CONCRETE)	GDR	GUARD RAIL
CIR	CIRCLE/CIRCULAR	GEN	GENERAL, GENERATOR
CIRC	CIRCUMFERENCE	GF	GROUND FACE
CJ	CONTROL JOINT, CONSTRUCTION JOING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
CK	CAULK(ING)	GFRC	GLASS FIBER REINFORCED CONCRETE
CLG	CEILING		
CLL	CONTRACT LIMIT LINE	GI	GALVANIZED IRON
CLR	CLEAR(ANCE)	GKT	GASKT(ED)
CLRM	CLASSROOM	GL	GLASS/GLAZING
CLS	CLOSURE	GL BLK	GLASS BLOCK
CMT	CERAMIC MOSAIC	GLU LAM	GLU-LAMINATED BEAM/WOOD
CMU	CONCRETE MASONRY UNIT(S)	GP	GALVANIZED PIPE
CMPST	COMPOSITE	GPDW	GYPSUM DRYWALL
CNTR	COUNTER	GPL	GYPSUM LATH
CO	CLEANOUT, CASED OPENING, CUTOUT	GPPL	GYPSUM PLASTER
		GR FL	GROUND FLOOR
COL	COLUMN	GR LN	GRADE LINE
COMB	COMBINE/COMBINATION	GRN	GRANITE
COMP	COMPRESS(ED/ION/IBLE)	GSB	GYPSUM SHEATHING BOARD
COMPO	COMPOSITION/COMPOSITE	GSM	GALVANIZED SHEET METAL
COMPT	COMPARTMENT	GSS	GLAZED STRUCTURAL SHEET
CONC	CONCRETE	GST	GLAZED STRUCTURAL TILE
CONF	CONFERENCE	GT	GROUT
CONN	CONNECT	GUT	GUTTER
CONST	CONSTRUCTION	GV	GALVANIZED
CONT	CONTINUE/CONTINUOUS	GVL	GRAVEL
CONTR	CONTRACTOR	GYM	GYMNASIUM
COR	CORRIDOR	GYP	GYPSUM
CORR	CORRUGATED	GYP BD	GYPSUM BOARD
COTG	CLEANOUT TO GRADE		
CPLP	CEMENT PLASTER (PORTLAND)	'H'	
CPR	COPPER	HB	HOSE BIBB
CPT	CARPET	HBD	HARDBOARD
CR	CLOSET ROD	HC	HANDICAP, HOLLOW CORE
CRG	CROSS GRAIN	HD	HAND DRYER, HEAVY DUTY
CRS	COURSE	HDR	HEADER
CRT YD	COURTYARD	HDW	HARDWARE
CSK	COUNTERSINK(SUNK)	HDWD	HARDWOOD
CSMT	CASEMENT	HES	HIGH EARLY STRENGTH CEMENT
CST	CAST STONE	HK	HOOK
CSWK	CASEWORK	HM	HOLLOW METAL
CT	CERAMIC TILE	HNDRL	HANDRAIL
CTB	CERAMIC TILE BASE	HO	HOLD-OPEN
CTR	CENTER	HORIZ	HORIZONTAL
CU FT	CUBIC FEET	HT	HEIGHT
CU YD	CUBIC YARD(S)	HTG	HEATING
CW	COLD WATER	HVAC	HEATING VENTILATING AIR CONDITIONING
		HW	HOTWATER
'D'		HWT	HOTWATER TANK
D	DEEP, DEPTH	HEX/HX	HEXAGONAL
DBL	DOUBLE		
DEG	DEGREE	'I'	
DEMO	DEMOLISH/DEMOLITION	ID	INSIDE DIAMETER, INSIDE DIMENSION
DET	DETAIL		
DEP	DEPRESSED		
DF	DRINKING FOUNTAIN	INCAND	INCANDESCENT
DH	DIAGONAL HUNG	INCIN	INCINERATOR
DIA	DIAMETER	INCL	INCLUDED
DIAG	DIAGONAL, DIAGRAM	INSUL	INSULATION
DIAM	DIAMETER	INT	INTERIOR
DIM	DIMENSION	INTM	INTERMEDIATE
DISP	DISPENSER	INV	INVERT(ED)
DIV	DIVISION	IPS	IRON PIPE SIZE
DL	DEAD LOAD	IS	ISLAND, INSECT SCREEN
DMPF	DAMPROOF(ING)	ISO	ISOMETRIC
DMT	DEMOUNTABLE	IWH	INSTANTANEOUS WATER HEATER
DN	DOWN		
DP	DAMP PROOFING		
DPR	DAMPER	'J'	
DR	DOOR, DINING ROOM, DRESSING ROOM, DRIVE	J	JOIST
		JC	JANITOR'S CLOSET
DRN	DRAIN	JF	JOINT FILLER
DRST	DOOR STOP	JT	JOINT
DS	DOWNSPOUT	J-BOX	JUNCTION BOX
DSP	DRY STANDPIPE		
DSPL	DISPOSAL		

		'K'	
		KO	KNOCK OUT
		KIT	KITCHEN
		KPL	KICKPLATE
		'L'	
		L	LENGTH
		LAB	LABORATORY
		LAD	LADDER
		LAM	LAMINATE
		LAV	LAVATORY
		LB	POUND
		LBL	LABEL
		LC	LIGHT CONTROL
		LD BRG	LOAD BEARING
		LGT	LIGHT(ING)
		LH	LEFT HANDED
		LIB	LIBRARY
		LINO	LINOLEUM
		LKR	LOCKER
		LKR RM	LOCKER ROOM
		LL	LIVE LOAD, LOWER LEVEL
		LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
		LMS	LIMESTONE
		LOC	LOCATION
		LOUV	LOUVER
		LP	LIGHT POLE
		LPT	LOW POINT
		LPG	LIQUID PETROLEUM GAS
		LRG	LARGE
		LT	LIGHT
		LT SW	LIGHT SWITCH
		LTG	LIGHTING
		LTL	LINTEL
		LT(ING)	LIGHT(ING)
		LVR	LOUVER
		LW	LIGHTWEIGHT
		LWC	LIGHTWEIGHT CONCRETE
		'M'	
		M	METER
		MAINT	MAINTENANCE
		MAS	MASONRY
		MATL	MATERIAL
		MAX	MAXIMUM
		MB	MACHINE BOLT, MAIL BOX
		MBR	MEMBER
		MC	MEDICINE CABINET, MANHOLE COVER, METAL-CLAD
		MECH RM	MECHANICAL ROOM
		MECH	MECHANICAL
		MED	MEDIUM, MEDICAL
		MEL	MELAMINE
		MEMB	MEMBRANE
		MET	METAL
		MFD	METAL FLOOR DECKING
		MEZZ	MEZZANINE
		MFR	MANUFACTURE(R)
		MFR REC	MANUFACTURER'S RECOMMENDATION
		MH	MANHOLE
		MIN	MINIMUM
		MIRR	MIRROR
		MISC	MISCELLANEOUS
		MLDG	MOLDING (MOULDING)
		MLWK	MILLWORK
		MMB	MEMBRANE
		MO	MASONRY OPENING, MOTOR OPERATED
		MOD	MODIFY
		MOD	MODULAR
		MOPR	MOP RACK
		MOV	MOVABLE
		MR	MAP RECEPTOR
		MRB	MARBLE
		MRD	METAL ROOF DECK(ING)
		MS	MOP SINK, MACHINE SCREW
		MT	MOUNT(ED/ING)
		MTFR	METAL FURRING
		MTHR	METAL THRESHOLD
		MTL	METAL
		MTLR	METAL ROOF
		MULL	MULLION
		MVBL	MOVABLE
		MWK	MILLWORK
		'N'	
		N	NORTH
		NAT	NATURAL
		NCOMBL	NONCOMBUSTIBLE
		NIC	NOT IN CONTRACT
		NL	NIGHT LIGHT
		NMT	NONMETALLIC
		NO	NUMBER
		NOM	NOMINAL
		NR	NOISE REDUCTION
		NRC	NOISE REDUCTION COEFFICIENT
		NS	NO SCALE
		NTS	NOT TO SCALE
		'O'	
		OA	OVERALL, OUTSIDE AIR
		OBS	OBSCURE
		OC	ON CENTER
		OCC	OCCUPY
		OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION
		OF	OUTSIDE FACE
		OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
		OF/OI	OWNER FURNISHED/ OWNER INSTALLED
		OFD	OVERFLOW DRAIN
		OFF	OFFICE
		OFS	OUTSIDE FACE OF STUD
		OGL	OBSCURE GLASS
		OH	OVER(HANG/HEAD)
		OH DR	OVERHEAD (COILING) DOOR
		OPNG	OPENING
		OPH	OPPOSITE HAND
		OPP	OPPOSITE
		OPS	OPPOSITE SURFACE
		OPT	OPTIONAL
		ORD	OVERFLOW ROOF DRAIN
		'P'	
		P	PAINT
		PA	PUBLIC ADDRESS
		PAR	PARALLEL
		PAT	PATTERN
		PB	PANIC BAR, PANELBOARD
		PBD	PARTICLE BOARD
		PCC	PRECAST CONCRETE
		PCF	POUNDS PER CUBIC FOOT
		PE	PEDESTAL
		PED	PEDESTAL
		PEND	PENDANT
		PERF	PERFORATE(D)
		PERIM	PERIMETER
		PERM	PERMANENT
		PFB	PREFABRICATED
		PFL	POUNDS PER LINEAR FOOT
		PFM	PREFINISHED
		PG	PLATE GLASS
		PH	PHASE
		PIL	PILASTER
		PK GAR	PARKING GARAGE
		PK LOT	PARKING LOT
		PL	PROPERTY LINE
		PLAM	PLASTIC LAMINATE
		PLAS	PLASTIC
		PLST	PLASTER
		PLY	PLYWOOD
		PNL	PANEL
		PNT	PAINT(ED)
		POL	POLISH(ED)
		PORC	PORCELAIN
		PR	PAIR, PIPE RAIL
		PRCST	PRECAST
		PREFAB	PREFABRICATE(D)
		PREFIN	PREFINISHED
		PRELIM	PRELIMINARY
		PRF	PREFORMED
		PRKG	PARKING
		PROP	PROPERTY
		PSC	PRE-STRESSED CONCRETE
		PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
		PSL	PIPE SLEEVE
		PT	PRESSURE TREATED
		PTD	PAPER TOWEL DISPENSER
		PTDR	PAPTER TOWEL DISPENSER & RECEPTACLE

		PTN	PARTITION
		PTR	PAPER TOWEL RECEPTACLE
		PV	PAVE(D)
		PVC	POLYVINYL CHLORIDE
		PVMT	PAVEMENT
		PWR	POWER
		'Q'	
		QT	QUARRY TILE
		QTB	QUARRY TILE BASE
		QTR	QUARTER
		QTY	QUANTITY
		QUAD	QUADRANT
		QUAL	QUALITY
		'R'	
		R	RADIUS, RISER, RANGE
		RA	RETURN AIR
		RAD	RADIUS
		RB	RUBBER BASE
		RB HK	ROBE HOOK
		RBL	RUBBLE STONE
		RBT	RUBBER TILE
		RCP	REFLECTED CEILING PLAN
		RCPTN	RECEPTION
		RD	ROOF DRAIN, ROAD
		REBAR	REINFORCING STEEL BARS
		REC	RECESSED
		RECPT	RECEPTACLE
		REF	REFERENCE
		REFG	REFRIGERATOR
		REFL	REFLECTED
		REG	REGISTER
		REINF	REINFORCE(D)
		REM	REMOVE(ABLE)
		REQD	REQUIRED
		RESIL	RESILIENT
		REST	RESTROOM
		REV	REVISED, REVISION
		RF	RESILIENT FLOORING
		RFG	ROOFING
		RFH	ROOF HATCH
		REINF	REINFORCE(D)
		RH	RIGHT HANDED
		RH	ROOF HATCH
		RL	RAIL(ING)
		RM	ROOM
		RO	ROUGH OPENING
		ROW	RIGHT OF WAY
		RT	RIGHT
		RTF	RUBBER TILE FLOOR
		RVS	REVERSE
		RWL	RAIN WATER LEADER
		RWR	RECESSED WASTE RECEPTACLE
		'S'	
		S	SOUTH
		SA	SUPPLY AIR
		SAN	SANITARY
		SC	SOLID CORE
		SCD	SEAT COVER DISPENSER
		SCHED	SCHEDULE
		SCP	SCUPPER
		SCR	SHOWER CURTAIN ROD
		SCRN	SCREEN
		SCT	STRUCTURAL CLAY TILE
		SD	SMOKE DETECTOR, STORM DRAIN,
			SOAP DISPENSER
		SDG	SIDING
		SECT	SECTION
		SF	SQUARE FOOT (FEET)
		SFGL	SAFETY GLASS
		SG	SHEET GLASS
		SGD	SLIDING GLASS DOOR
		SH	SHELF
		SHFT	SHAFT (ELEVATOR)
		SHO	SHORE(D/ING)
		SHR	SHOWER
		SHT	SHEET
		SHTHG	SHEATHING
		SHV	SHELVING
		SIM	SIMILAR
		SKLT	SKYLIGHT
		SL	SIDELIGHT
		SLNT	SEALANT
		SM	SHEET METAL, SMALL, SMOOTH
		SMP	SUMP PUMP
		SND	SANITARY NAPKIN DISPENSER
		SND INS	SANITARY NAPKIN DISPOSAL UNIT
		SOV	SHUTOFF VALVE
		SP	STANDPIPE, SUMP PIT
		SPC	SPACE(R)
		SPM	SOLID PLASTIC MATERIAL
		SPEC	SPECIFICATION
		SPKLR	SPRINKLER
		SPKR	SPEAKER
		SPRT	SUPPORT
		SPL	SPECIAL
		SQ	SQUARE
		SS	SANITARY SEWER, STORM SEWER
		SSK	SERVICE SINK
		SST	STAINLESS STEEL
		ST	STAIR(S), STREET
		STA	STATION
		STC	SOUND TRANSMISSION CLASS
		STD	STANDARD
		STG	SEATING
		STL	STEEL
		STL LNTL	STEEL LINTEL
		STL PL	STEEL PLATE
		STL RF DK	STEEL ROOF DECK
		STOR	STORAGE
		STR	STRAIGHT, STRINGER(S)
		STRUCT	STRUCTURAL
		SUB FL	SUB FLOOR
		SUSP	SUSPEND(ED)
		SV	SHEET VINYL
		SW	SIDEWALK, SWITCH
		SYMM	SYMMETRICAL
		SYN	SYNTHETIC
		SYS	SYSTEM
		'T'	
		T	TREAD
		T&B	TOP & BOTTOM
		T&G	TONG & GROOVE
		T/S	TUB / SHOWER
		TB	TOWEL BAR, THROUGH BOLT
		TBD	TO BE DETERMINED
		TD	TRENCH DRAIN
		TDR	TOWEL DISPENSER & RECEPTACLE
		TEL	TELEPHONE
		TEMP	TEMPORARY
		TER	TERRAZZO
		TFF	TOP OF FINISH FLOOR
		THK	THICK(NESS)
		THR	THRESHOLD
		THRU	THROUGH
		TK BD	TACKBOARD
		TKS	TACK STRIP
		TO	TOP OF
		TOB	TOP OF BEAM
		TOC	TOP OF CONCRETE/CURB
		TOC FTG	TOP OF CONCRETE FOOTING
		TOC WALL	TOP OF CONCRETE WALL
		TO FDN	TOP OF FOUNDATION
		TOL	TOLERANCE
		TOM	TOP OF MASONRY
		TOP	TOP OF PARAPET, TOP OF PAVEMENT
		TOPO	TOPOGRAPHY
		TOS	TOP OF SLAB, TOP OF STEEL
		TOT	TOP OF TRUSS
		TOW	TOP OF WALL
		TP	TELEPHONE POLE
		TPD	TOILET PAPER DISPENSER
		TPH	TOILET PAPER HOLDER
		TPTN	TOILET PARTITION
		TR	TOWEL RACK
		TRANS	TRANSOM, TRANSPARENT
		TRTD	TREATED
		TS	TUBE STEEL
		TSTAT	THERMOSTAT
		TTB	TELEPHONE TERMINAL BOARD
		TV	TELEVISION
		TYP	TYPICAL
		'U'	
		UC	UNDERCUT
		UGND	UNDERGROUND
		UL	UNDERWRITERS LABORATORIES

		UNFIN	UNFINISH(ED)
		UNIF	UNIFORM
		UNO	UNLESS NOTED OTHERWISE
		UR	URINAL
		UTIL	UTILITY
		'V'	
		V	VOLT
		VAR	VARIES, VARIATION
		VB	VINYL BASE
		VCT	VINYL COMPOSITION TILE
		VERT	VERTICAL
		VEST	VESTIBULE
		VF	VINYL FABRIC
		VG	VERTICAL GRAIN
		VIF	VERIFY IN FIELD
		VIN	VINYL
		VJ	V-JOINT(ED)
		VNR	VENEER
		VOLT	VOLTAGE
		VP	VENEER PLASTER
		VR	VAPOR RETARDER
		VRM	VERMICULITE
		VRFY	VERIFY
		VT	VINYL TILE
		VWC	VINYL WALLCOVERING
		'W'	
		W	WEST, WIDE, WASTE, WATT
		W/	WITH
		W/O	WITHOUT
		WB	WOOD BASE
		WC	WATER CLOSET, WALL COVERING
		WD	WOOD
		WDW	WINDOW
		WGL	WIRED GLASS
		WH	WATER HEATER, WEEP HOLE, WALL HYDRANT, WALL HUNG
		WHB	WHEEL BUMPER
		WHSE	WAREHOUSE
		WI	WROUGHT IRON
		WIN	WINDOW
		WLD	WELDED
		WM	WIRE MESH
		WO	WHERE OCCURS, WITHOUT
		WP	WATERPROOF(ED/ING)
		WPT	WORKING POINT
		WPM	WATERPROOF MEMBRANE
		WR	WEATHER RESISTANT
		WS	WEATHER STRIP
		WSCT	WAINSCOT
		WT	WEIGHT, WATERTIGHT
		WW	WINDOW WALL
		WWF	WELDED WIRE FABRIC
		WWM	WELDED WIRE MESH
		XFMR	TRANSFORMER
		'Y'	
		YH	YARD HYDRANT
		'Z'	
		Z	ZEBRA

SYMBOLS LEGENDS

WALL LEGEND

EXISTING WALL TO REMAIN

EXISTING WALL TO BE DEMOLISHED

FRAMED WALL REFER TO WALL TYPE

CONCRETE WALL C.I.P.,C/P,C.C.

CMU WALL

REFERENCE SYMBOL LEGEND

WALL REFERENCE — W6.0.12FS — WALL TYPE

COLUMN REFERENCE/GRID BUBBLES — 1, 2, A — NUMBERS FOR VERTICAL GRIDS, LETTERS FOR HORIZONTAL GRIDS

MATCHLINE — MATCHLINE - SEE SHEET A100

WALL SECTION REFERENCE — 1 / A-300 — SECTION REFERENCE, SHEET REFERENCE

BUILDING SECTION REFERENCE — 1 / A-300 — SECTION REFERENCE, SHEET REFERENCE

ELEVATION REFERENCE — 1 / A-201 EXTERIOR — ELEVATION REFERENCE, SHEET REFERENCE — INTERIOR 4 / A-251 2, 1, 3

DETAIL & ENLARGED PLAN REFERENCE — B2 / A-501 — CALLOUT REFERENCE, SHEET REFERENCE

DETAIL REFERENCE — B2 / A-551 — CALLOUT REFERENCE, SHEET REFERENCE

ICON LEGEND

WINDOW REFERENCE — A — WINDOW DESIGNATION

DOOR REFERENCE — 203B — DOOR NUMBER

ROOM NAME & NUMBER REFERENCE — ROOM NAME 101 — ROOM NAME, ROOM NUMBER

CEILING PLAN SPOT ELEVATION — HEIGHT, VARIES, CEILING PLAN

LEVEL ELEVATION — NAME, ELEVATION, SECTION/ELEVATION/FLOOR PLAN

SPOT ELEVATION — HEIGHT

REVISION TAG — 1

NORTH ARROW — NORTH, TRUE NORTH

PROPERTY LINE

CENTER LINE — ℄ ℄

CONTOUR LINES — 76 NEW, 72 EXISTING

SIGNAGE TYPE — 1

KEYNOTE — XXX

SPECIALTY EQUIPMENT — XXX

FLOOR DRAIN — FD

FIRE EXTINGUISHER & HOSE CABINET — FEHC

FIRE EXTINGUISHER CABINET — FEC

HATCH LEGEND

EARTHWORK
- EARTHWORK - UNMOVED
- EARTHWORK - BACKFILLED
- GRAVEL/POROUS FILL

INSULATION
- BLANKET/LOOSE FILL
- RIGID INSULATION

CONCRETE & MASONRY
- PRECAST/CAST IN PLACE
- SAND/MORTAR/PLASTER
- CONCRETE BLOCK
- BRICK

METAL
- STEEL

WOOD
- FINISH
- PLYWOOD

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4575 REGISTERED ARCHITECT JEFFREY JOHN WARNER STATE OF WASHINGTON
STAMP

SHEET TITLE: ABBREVIATIONS / SYMBOLS AND MATERIAL LEGEND

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER, 1810 N GREENE STREET, SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority, 1230 W. Boone Avenue, Spokane, Washington 99201

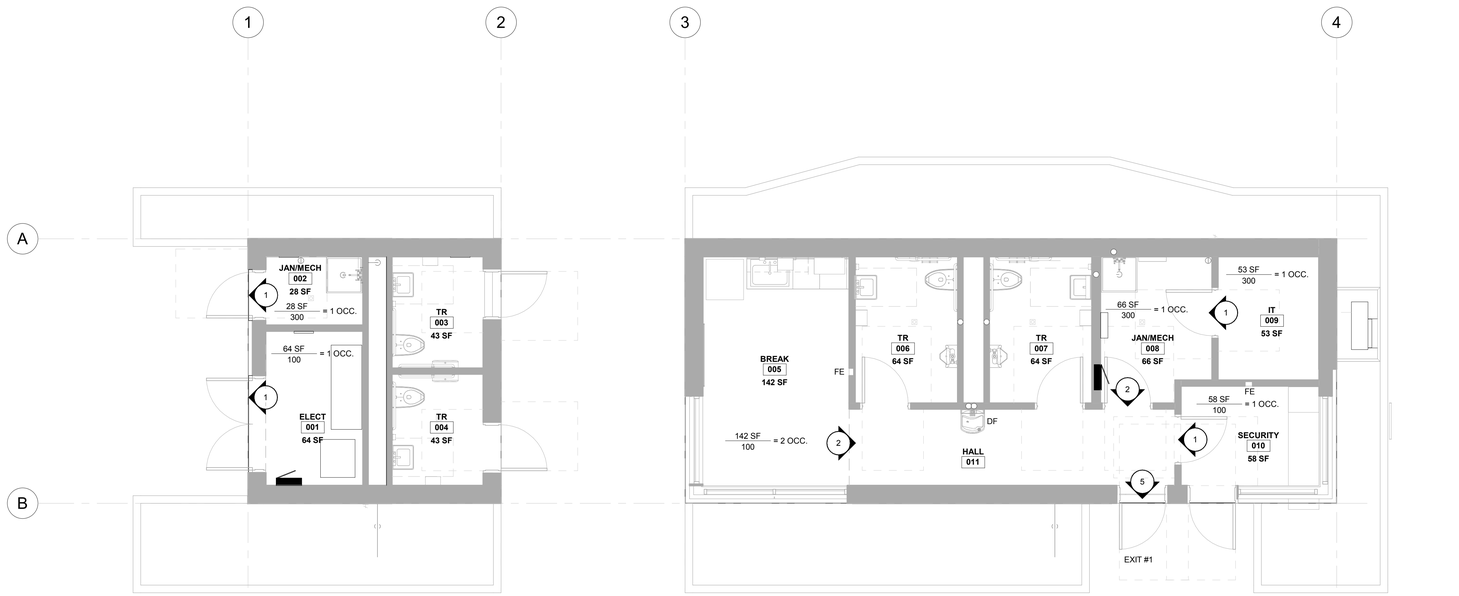
BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	JTL
CHECKED	Checker
DATE	2/10/19

SHEET: G-002



1 LEVEL 01 - CODE PLAN

SCALE : 1/4" = 1'-0"

NORTH

0 1 2 4 8 12

PROJECT CODE INFORMATION

APPLICABLE CODES:
(WITH WA AMMENDMENTS)

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL FUEL GAS CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 UNIFORM PLUMBING CODE
2015 WASHINGTON STATE ENERGY CODE
ICC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

A.	OCCUPANCY GROUP (SECT 304)	B
	CLEARANCE TO PROPERTY LINES	GREATER THAN 30'-0" ALL FOUR SIDES
	FIRE RESISTANCE OF EXT WALLS (TABLE 602)	NOT RATED
B.	OCCUPANCY SEPARATION (TABLE 508.4)	NO SEPARATION REQUIREMENT
C.	TYPE OF CONSTRUCTION (TABLE 601)	VB - NON-SPRINKLED
D.	BASIC ALLOWABLE FLOOR AREA (TABLE 506.2)	9,000 SF
	ALLOWABLE AREA (SECT 506.2.1)	Aa = [At + (NS x If)] Aa = [9,000 + (9,000 x 0.75)] Aa = 15,750 SF
	ACTUAL AREA FIRE AREA 1	1017 SF *AREA SEPARATION REQ'D* 1017 SF < 15750 SF = OK

W = (L1 X W1 + L2 X W2 + L3 X W3 + L4 X W4) / F
W = 71 X 30 + 17.25 X 30 + 71 X 30 + 17.25 X 30) / 176.5
W = 2130 + 517.5 + 2130 + 517.5 / 176.5
W = 30

If = [F/P - 0.25] W/30
If = [176.5/176.5 - 0.25] 30/30
If = [.75] 1
If = .75

E.	MAXIMUM BUILDING HEIGHT (TABLE 504.3 / 504.4) ALLOWED ACTUAL	 40'-0" / 2 STORIES 14'-0" / 1 STORY
F.	FIRE RESISTANCE REQUIREMENTS (TABLE 601) STRUCTURAL FRAME EXTERIOR BEARING WALLS INTERIOR BEARING WALLS EXTERIOR NON-BEARING WALLS FLOOR CONSTRUCTION ROOF CONSTRUCTION	 0 0 0 0 0 0
G.	MAXIMUM TRAVEL DISTANCE (TABLE 1017.2)	200'-0" AT NON-SPRINKLED AREA
H.	MAXIMUM COMMON PATH OF TRAVEL (TABLE 1006.2.1)	100'-0"

I. PLUMBING FIXTURES (TABLE 2902.1)

OCCUPANTS: 7 OCCUPANTS

WATER CLOSETS:	REQUIRED	PROVIDED
1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50		
UNISEX	7 / 25 = 1	4 + 2 URINAL
LAVATORIES:	REQUIRED	PROVIDED
1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80		
UNISEX	7/ 80 = 1	4

DRINKING FOUNTAINS (SEC 2902.5.1) 1 REQUIRED, 1 PROVIDED

LEGAL DESCRIPTION / ZONING INFORMATION

AHJ: SPOKANE COUNTY BUILDING & PLANNING DEPT
2016 SPOKANE COUNTY ZONING CODE

A.	PARCEL NUMBER	35105.3501
B.	PROPERTY ADDRESS	1810 N. GREENE ST., SPOKANE, WA. 99217
C.	LEGAL DESCRIPTION	10-25-43 BEG AT SW COR OF SE 1/4, BNG ALSO TRUE POB; TH E ALG S LN OF SD SECT,670 FT TO W LN OF REBECCA ST; TH N ALG SD W LN, 652 FT; TH E, ALG PROJ C/L OF NORA AVE, 660 FT TO PROJ C/L OF JULIA ST; TH N ALG PROJ C/L TO C/L OF SPOKANE RIVER, 829.50 FT; TH WLY ALG SD C/L TO W LN OF SE 1/4, 1359.32 FT; TH S ALG W LN OF SE 1/4 TO TRUE POB, TOGETHER W/; BEG AT INTR OF C/L OF SPOKANE RIVER AND W LN OF SE 1/4 PROPERTY LYG S OF LN DAF; TH WLY ALG C/L OF SPOKANE RIVER, 1407.68 FT TO A PT 143 FT N OF NE COR OF LT 1, BLK 46; TH TOGETHER W/ ALL OF BLK 46 & 53, AND VAC ALLEY IN SD BLK 53 OF PETERSAPPO'S RIVERSIDE ADD, TOGETHER W/BLKS 11-14, BLKS 15-18, BLKS 21-24 OF EAST END ADD, TOGETHER W/VAC ALLEYS IN SD BLKS IN EAST END ADD, ALSO TOGETHER W/VAC BALDWIN AVE, VAC INDIANNA AVE, VAC NORA AVE ADJ TO SD BLKS IN EAST END ADD, LYG E OF E LN OF GREENE ST TO W LN OF SW 1/4, AND VAC FERRALL ST AND THOR ST ADJ TO SD BLKS IN EAST END ADD LYG N OF N LN OF MISSION AVE AND VAC RALPH STLYG N OF N LN OF MISSION AVE AND VAC AUGUSTA AVE FR E LINE OF GREENE STREET TO W LN OF SW 1/4 EXC S38FT OF NE1/4 OF SW1/4 FOR NORA AVE & EXC PTN LT 3 BLK 53 PETER SAPPO'S RIVERSIDE ADDITION FOR ST
D.	ZONING	(LI) LIGHT INDUSTRIAL USE
E.	MAX BUILDING COVERAGE	1% OF LOT AREA
F.	MAX BUILDING HEIGHT	40'-0"
G.	FRONT YARD SETBACK	30' - 0" FROM PROPERTY LINE
H.	SIDE/REAR YARD SETBACK	30' - 0"
I.	PROPOSED SQUARE FOOTAGE	1017 SF
J.	PROPOSED BUILDING HEIGHT	14'-0" / 1 STORY
K.	PARKING REQUIREMENTS	PARKING PER CU REVIEW
L.	EXISTING USE OF LOT	PARKING
M.	PROPOSED USE(S)	BUS TRANSIT CENTER AND STA EMPLOYEE/ RIDER SERVICES BUILDING
N.	OCCUPANT LOAD	7
O.	TOTAL PROJECT VALUATION	$2,500,000
P.	PARKING	REF C-401 FOR PROPOSED PARKING
Q.	LOT AREA	81,000 SF
R.	PERCENT COVERED BY BUILDING	1.2%
S.	AREA COVERED BY HARD SURFACE	68,250 SF

EXITING REQUIREMENTS

REGULAR USE

EXIT #1 5 OCC x 0.2" = 1" REQUIRED
34" PROVIDED

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4575 REGISTERED ARCHITECT JEFFREY JOHN WARNER STATE OF WASHINGTON

STAMP

SHEET TITLE: CODE SHEET

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	JTL
CHECKED	Checker
DATE	2/10/19

SHEET: G-003

GENERAL NOTES

1. WORK AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS AND STANDARDS OF THE AUTHORITIES HAVING JURISDICTION. IF STANDARDS ARE NOT PROVIDED BY THE AUTHORITIES HAVING JURISDICTION, WORK AND MATERIALS SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS JOINTLY PROMULGATED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
2. THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 811 TWO BUSINESS DAYS PRIOR TO EXCAVATION.
3. INFORMATION ON EXISTING CONDITIONS SHOWN ON THESE PLANS WAS OBTAINED FROM A SURVEY PERFORMED BY COFFMAN ENGINEERS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REQUIRED ELEVATIONS AT THE SUBJECT SITE. VERIFY THE LOCATION AND SIZE OF EXISTING UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION ACTIVITIES, INCLUDING UNDERGROUND AND OVERHEAD UTILITIES, UTILITY STRUCTURES, POINTS OF CONNECTION, AND UTILITY CROSSINGS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR EXCEPTIONS ENCOUNTERED PRIOR TO PROCEEDING. ANY COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF APPROVED PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. THE DRAWINGS INDICATE LOCATIONS, DIMENSIONS, REFERENCES, AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT INDICATE EVERY CONDITION. WORK NOT FULLY DETAILED SHALL BE OF CONSTRUCTION SIMILAR TO PARTS THAT ARE FULLY DETAILED.
6. THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE APPROVALS AND PERMITS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION TO CONFIRM INSPECTION, TESTING, AND CERTIFICATION REQUIREMENTS.
7. CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
8. EXISTING PROPERTY CORNERS AND SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS OR MONUMENTS SHALL BE RE-ESTABLISHED BY A PROFESSIONAL SURVEYOR AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS. COORDINATE REQUIREMENTS WITH THE AUTHORITIES HAVING JURISDICTION.
10. SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLIED WITH AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
11. THE CONTRACTOR SHALL HAVE THE APPROPRIATE LICENSES TO PERFORM THE SPECIFIED WORK IN CONFORMANCE WITH THE AUTHORITIES HAVING JURISDICTION.
12. REFER TO ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING CONSTRUCTION OF STRUCTURES, ENCLOSURES, STAIRS, LANDINGS/PATIOS, AND RAILING.
13. RECORD DRAWINGS IDENTIFYING AND ACCURATELY LOCATING SUBSURFACE UTILITIES AND IMPROVEMENTS AND NOTING AS-CONSTRUCTED CONDITIONS SHALL BE PROVIDED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.
14. CONTRACTOR TO PERFORM A PICTORIAL OR VIDEO SURVEY OF EXISTING CONDITIONS WITH THE VICINITY OF ALL WORK AREAS BEFORE CONSTRUCTION BEGINS.

EROSION & SEDIMENT CONTROL NOTES

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL (ESC) PROBLEMS:
   a) CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MEASURES (BMPS);
   b) INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
   c) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
   d) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
   e) CLEAR, GRUB AND GRADE SUBJECT SITE;
   f) TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, SUBJECT SITE IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
   g) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (SUCH AS INLETS, PONDS, UNDERGROUND INJECTION CONTROL (UIC) FACILITIES, ETC.);
   h) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS;
   i) INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,
   j) REMOVE TEMPORARY ESC CONTROLS WHEN:
      i. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
      ii. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND,
      iii. VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
2. INSPECT ALL ROADWAYS, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
3. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
4. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
5. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
6. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
7. INSPECT SEDIMENT CONTROL BMPS WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
8. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA. DO NOT USE WATER WHEN IT MAY DAMAGE ADJACENT CONSTRUCTION OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION.
9. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM," IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FORTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
10. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
11. KEEP ROADS ADJACENT TO INLETS CLEAN.
12. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
13. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
14. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
15. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NONINERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 OF THE WASHINGTON ADMINISTRATIVE CODE (WAC) FOR THE DEFINITION OF INERT WASTE), USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
16. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
17. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.
18. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS. NOTE THAT INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACED BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
19. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.
20. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES, ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY, INCLUDING OBTAINING THE APPROPRIATE PERMITS AND APPROVALS.
21. EROSION CONTROL MEASURES IN ADDITION TO THOSE INDICATED AS PART OF THIS PLAN MAY BE REQUIRED DUE TO UNFORESEEN CONDITIONS, IF THE MEASURES DO NOT FUNCTION AS INTENDED, OR IF THE AUTHORITIES HAVING JURISDICTION DETERMINE INDICATED MEASURES ARE INADEQUATE.
22. FILTER FENCE SHALL BE USED TO AID IN CONTAINING ANY SEDIMENT ON THE SITE DURING CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCES SHALL BE USED AT POINTS OF INGRESS AND EGRESS FOR CONSTRUCTION VEHICLES. STORM DRAIN INLET PROTECTION SHALL BE USED ON ALL STORM DRAIN STRUCTURES, INCLUDING CATCH BASINS AND DRYWELLS. THE CONTRACTOR SHALL KEEP THE AREAS ADJACENT TO THE SITE INCLUDING ROADWAYS AND PARKING LOTS FREE FROM DEBRIS. REFER TO THE EROSION AND SEDIMENT CONTROL MEASURE DETAILS FOR ADDITIONAL INFORMATION.
23. PROVIDE A DESIGNATED, POSTED CONCRETE WASHOUT AREA. THE CONCRETE WASHOUT SHALL NOT BE ALLOWED TO DRAIN OFF THE SITE OR INTO ANY EXISTING OR FUTURE STORM DRAINAGE FACILITIES. HARDENED CONCRETE WASHOUT SHALL BE BROKEN UP AND REMOVED FROM THE SITE.
24. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES.

DEMOLITION NOTES

1. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER, AGENCY, AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER, AGENCY, AND AUTHORITIES HAVING JURISDICTION.
2. COORDINATE DEMOLITION OPERATIONS AND ANY REQUIRED UTILITY RELOCATIONS WITH THE OWNER, AGENCY, AND APPROPRIATE UTILITY PURVEYOR, INCLUDING REQUIREMENTS AND SCHEDULING.
3. COORDINATE EXTENT OF DEMOLITION WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL REVIEW THE PROJECT LIMITS TO DETERMINE THE QUANTITY AND TYPE OF DEMOLITION WASTE MATERIAL AND DEBRIS TO BE INCLUDED IN THEIR BID. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, AND RELOCATING IF NECESSARY, ANY ITEMS NOT OTHERWISE NOTED THAT CONFLICT WITH THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTING ITEMS NOT SHOWN ON THE PLANS THAT MUST BE REMOVED OR RELOCATED. FAILURE TO NOTIFY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF COST RESPONSIBILITY FOR REMOVING REQUIRED ITEMS.
4. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
5. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED OTHER THAN WHAT HAS BEEN IDENTIFIED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER AND AGENCY.
6. CONDUCT DEMOLITION ACTIVITIES AND DEBRIS REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, WALKWAYS, AND OTHER ADJACENT FACILITIES.
7. REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REFER TO LANDSCAPE PLANS FOR TREE PROTECTION AND TREE REMOVAL PROCEDURES TO PRESERVE HEALTH OF ADJACENT TREES.
8. AREAS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE CONSTRUCTED OR RESTORED TO ORIGINAL CONDITIONS OR BETTER, TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND ANY DAMAGE THAT MAY OCCUR.
9. REMOVE DEMOLITION WASTE MATERIALS AND DEBRIS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
10. ALL BROKEN, HEAVED, SUNKEN, OR MISSING CURBS, SIDEWALKS, AND DRIVEWAY APPROACHES ADJACENT TO THE SITE MUST BE REPAIRED OR REPLACED, WHETHER EXISTING OR CAUSED BY CONSTRUCTION.

EARTHWORK & GRADING NOTES

1. SITE PREPARATION, GRADING, EXCAVATION AND FILL REQUIREMENTS BELOW THE PROPOSED IMPROVEMENTS, EMBANKMENTS, AND UTILITY TRENCHING SHALL BE COMPLETED IN CONFORMANCE WITH WSDOT STANDARD SPECIFICATIONS AND THE GEOTECHNICAL ENGINEERING EVALUATION FOR THE SUBJECT SITE.
2. EXAMINE EXPOSED SUBGRADES AND BASE SURFACES FOR COMPLIANCE WITH REQUIREMENTS FOR DIMENSIONAL, GRADING, AND ELEVATION TOLERANCES. PREVENT SURFACE WATER AND GROUNDWATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES AND BASE SURFACES, AND FROM FLOODING THE PROJECT SITE AND SURROUNDING AREA. PROTECT SUBGRADES AND BASE SURFACES FROM SOFTENING, UNDERMINING, WASHOUT, DAMAGE BY RAIN OR WATER ACCUMULATION, AND AGAINST FREEZING TEMPERATURES AND FROST.
3. REFER TO ARCHITECTURAL/STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING ANY STEPS IN FINISH FLOOR ELEVATION AND EXTERIOR DOOR LOCATIONS. COORDINATE ARCHITECTURAL/STRUCTURAL ELEVATIONS WITH SITE GRADING.
4. REFER TO LANDSCAPE DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING BERM ELEVATIONS, LANDSCAPE GRADING, LANDSCAPE DRAINS, PLACEMENT OF TOPSOIL, AND COORDINATION BETWEEN LANDSCAPING AND STORMWATER MANAGEMENT IMPROVEMENTS.
5. SPOT ELEVATIONS ARE FOR FINISH GRADE UNLESS OTHERWISE NOTED.
6. UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW FINISH GRADE SURFACES SHALL BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO RUNOFF COLLECTION DEVICES OR FACILITIES. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS. IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
7. GROUNDWATER OR UNANTICIPATED SUBSURFACE CONDITIONS SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER FOR ASSESSMENT AND RECOMMENDATIONS. REFERENCE THE GEOTECHNICAL REPORT FOR IDENTIFICATION AND REMOVAL/ REUSE OF CONTAMINATED SOILS ON SITE.
8. COMPACTION EFFORTS AND MASS GRADING SHALL BE MONITORED AND TESTED BY AN EXPERIENCED SOILS TECHNICIAN, UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER REPRESENTING THE AGENCY.
9. CONTRACTOR SHALL COORDINATE WITH AGENCY CONTRACTED CONSULTANT, BUDINGER AND ASSOCIATES, FOR ALL REQUIRED SPECIAL INSPECTIONS. CALL 509-535-8841 TO SCHEDULE.
10. CONSTRUCTION STAKING FOR ALL GRADES AND SITE LAYOUT FEATURES SHALL BE PROVIDED BY A PROFESSIONAL LICENSED SURVEYING OR ENGINEERING FIRM CAPABLE OF PERFORMING SUCH WORK. CONSTRUCTION STAKING AS STATED ABOVE SHALL BE CONTRACTED WITH AND THE RESPONSIBILITY OF THE CONTRACTOR.

PAVING NOTES

1. DO NOT APPLY PAVEMENT MATERIALS IF SUBGRADE IS WET OR EXCESSIVELY DAMP, OR IF RAIN IS IMMINENT OR EXPECTED BEFORE TIME REQUIRED FOR ADEQUATE CURE. SURFACE AND AIR TEMPERATURES SHALL CONFORM TO REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS.
2. COMPLY WITH WSDOT STANDARD SPECIFICATION 5-04 FOR HOT MIX ASPHALT PAVEMENT.
3. WHERE NEW ASPHALT PAVEMENT JOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO A NEAT, VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION IN ACCORDANCE WITH WSDOT SPECIFICATIONS.
4. COMPLY WITH WSDOT STANDARD SPECIFICATION 5-05 AND THE AMERICAN CONCRETE INSTITUTE (ACI) 301 REQUIREMENTS FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CEMENT CONCRETE PAVEMENT.
5. APPLY PAVEMENT MARKING MATERIALS TO CLEAN, DRY PAVEMENT SURFACES ACCORDING TO WSDOT STANDARD SPECIFICATION 8-22. PAVEMENT MARKINGS SHALL COMPLY WITH THE MUTCD AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
6. CONSTRUCTION STAKING FOR CURB AND GUTTER, PAVEMENT GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT SHALL BE PROVIDED BY A PROFESSIONAL LICENSED SURVEYING OR ENGINEERING FIRM CAPABLE OF PERFORMING SUCH WORK. CONSTRUCTION STAKING AS STATED ABOVE SHALL BE CONTRACTED WITH AND THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITY & DRAINAGE NOTES

1. DRAWING PLANS AND DETAILS INDICATE GENERAL LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITY AND STORM DRAIN PIPING. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE DESIGN CONSIDERATIONS INTO ACCOUNT. INSTALL PIPING AS INDICATED, TO EXTENT PRACTICAL. WHERE SPECIFIC INSTALLATION IS NOT INDICATED, FOLLOW PIPING MANUFACTURER'S WRITTEN INSTRUCTIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
2. UTILITIES SHALL BE STUBBED THREE (3) FEET OUTSIDE OF THE BUILDING. THE SITE CONTRACTOR SHALL COORDINATE CONTINUATION OF UTILITY SERVICES AND UTILITY CONNECTIONS TO THE BUILDING WITH THE BUILDING CONTRACTOR AND BUILDING PLANS. A PLUG SHALL BE INSTALLED AT THE END OF SERVICE LINES UNTIL SUCH TIME THAT SERVICE IS EXTENDED TO THE BUILDING FOR CONNECTION.
3. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING ROOF DRAINS AND CANOPY DRAINS.
4. REFER TO ELECTRICAL PLANS FOR INFORMATION REGARDING SITE LIGHTING, POWER, AND COMMUNICATIONS. COORDINATE REQUIREMENTS AND SCHEDULING FOR POWER AND UTILITY INSTALLATIONS WITH UTILITY PURVEYOR, INCLUDING TRENCH EXCAVATION, BEDDING, AND BACKFILL REQUIREMENTS.
5. FOR EACH TYPE OF PIPE, USE JOINING MATERIALS RECOMMENDED BY PIPING SYSTEM MANUFACTURER, UNLESS OTHERWISE INDICATED.
6. CONNECT UTILITY PIPING TO EXISTING SYSTEM ACCORDING TO REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. ARRANGE WITH THE GOVERNING REGULATORY AGENCY OR UTILITY COMPANY FOR TAP OF SIZE AND IN LOCATION INDICATED. COORDINATE REQUIREMENTS AND SCHEDULING WITH AUTHORITIES HAVING JURISDICTION.
7. BURY PIPING WITH DEPTH OF COVER IN COMPLIANCE WITH REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION FOR ALL REQUIREMENTS AND TO CONFIRM THAT AN ADEQUATE DEPTH OF COVER IS MAINTAINED OVER THE UTILITIES, INCLUDING CLEARANCES BETWEEN THE VARIOUS UTILITIES.
8. CONTRACTOR SHALL MAINTAIN A MINIMUM TEN (10) FEET OF HORIZONTAL SEPARATION BETWEEN WATER PIPE AND PIPE CARRYING NON-POTABLE WATER. AT CROSSINGS, PROVIDE A MINIMUM VERTICAL CLEARANCE OF 24 INCHES BETWEEN WATER PIPE (ABOVE) AND PIPE CARRYING NON-POTABLE WATER (BELOW). INSTALLATIONS FOR PIPE CARRYING NON-POTABLE WATER MAY BE INSTALLED AT A CLEARANCE LESS THAN THOSE STATED ABOVE IF THE NON-POTABLE LINE IS SLEEVED. THE SLEEVE PIPE SHALL BE ONE (1) SIZE LARGER THAN THE CONSTRUCTION PIPE. THE SLEEVE SHALL BE AT LEAST TWENTY (20) FEET IN LENGTH AND CENTERED ON THE CROSSING TO PROVIDE FOR A MINIMUM HORIZONTAL SEPARATION OF TEN (10) FEET EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE CROSSED LINE. EACH END OF THE SLEEVE SHALL BE SEALED WITH A FERNCO RUBBER COUPLER. REFER TO CITY OF SPOKANE STANDARD PLAN W-111 FOR ADDITIONAL REQUIREMENTS.
9. UTILITY PIPE AND CONDUITS SHALL BE INSTALLED WITH CONTINUOUS WARNING TAPE DIRECTLY OVER PIPING AT DEPTHS IN COMPLIANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND AT OUTSIDE EDGE OF UNDERGROUND STRUCTURES. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING.
10. FIELD QUALITY CONTROL SHALL COMPLY WITH THE AUTHORITIES HAVING JURISDICTION. INSPECT, TEST, DISINFECT, AND CLEAN UTILITY LINES IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: GENERAL CIVIL NOTES

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

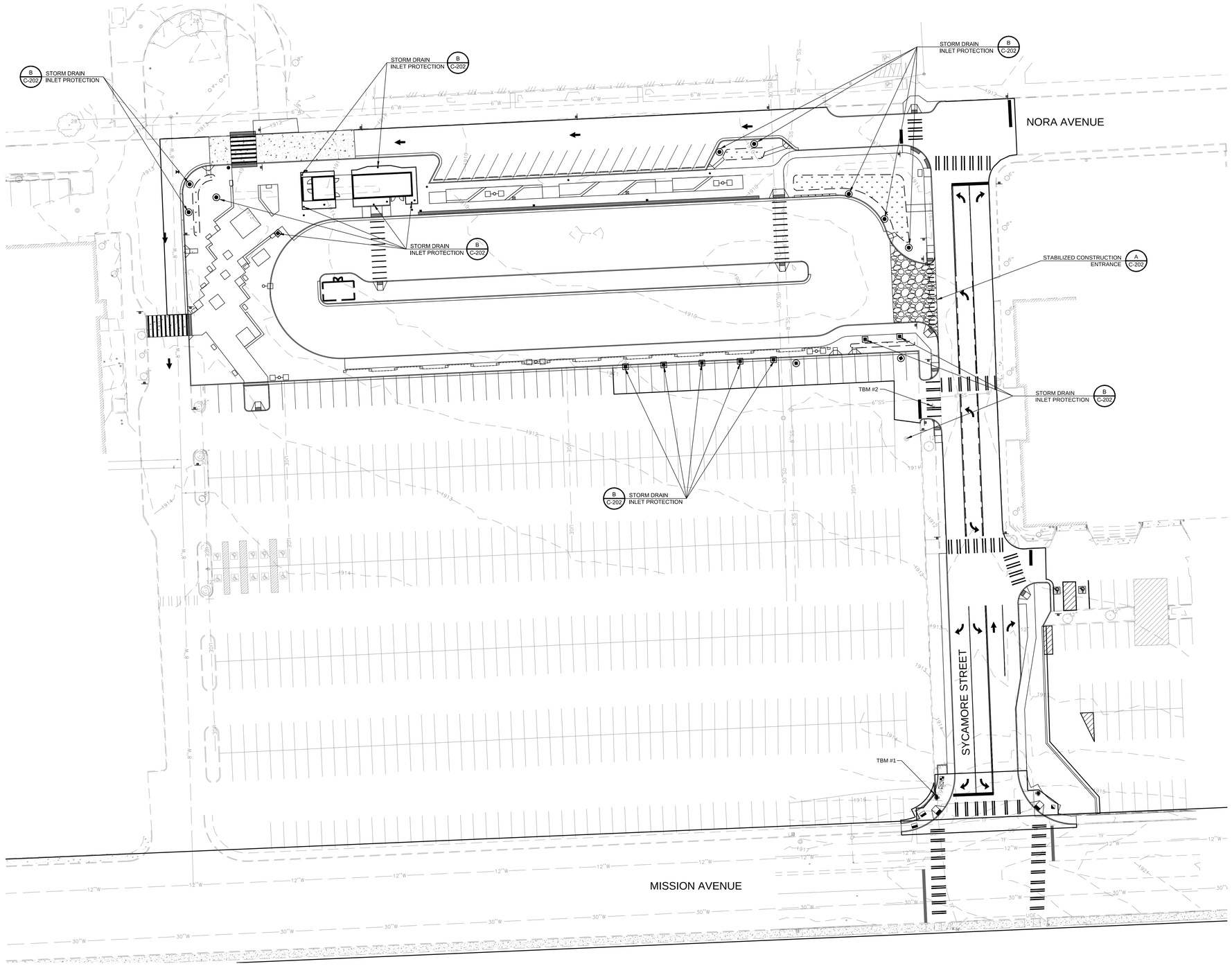
REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN BLW
CHECKED CBM
DATE 02/10/2019

SHEET C-101

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



30 15 0 30 60

SCALE: 1 INCH = 30 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	264461.24	2496583.91	1916.07	SET X
2	264735.01	2496582.25	1911.45	SET X
30*	265664.38	2495172.90	1915.11	SET X
31*	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED DRYWELL
- EXISTING DRYWELL
- SWALE INLET
- CATCH BASIN
- AREA DRAIN

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. NOTE THAT EXISTING IMPERVIOUS SURFACES FLOW ON-SITE AND WILL BE MANAGED BY PROPOSED STORMWATER MANAGEMENT SYSTEMS. IT IS RECOMMENDED THAT THE PROPOSED ESC, BMP, AND STORMWATER IMPROVEMENTS ARE IMPLEMENTED EARLY IN CONSTRUCTION TO MANAGE ANY RUNOFF THAT EXISTING IMPERVIOUS SURFACES CONTRIBUTE TO THE JOB SITE DURING CONSTRUCTION.

UTILITY STATEMENT
LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD STATE OF WASHINGTON 22067 REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

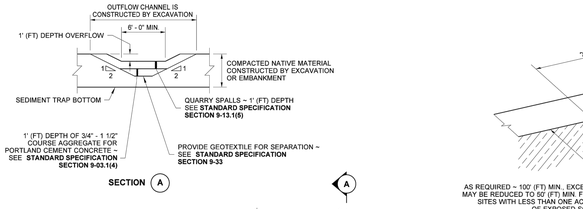
REVISIONS

No.	Date	By

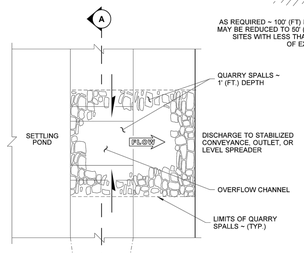
PROJ. NO.	2018-10258
DRAWN	BLW
CHECKED	CBM
DATE	02/10/2019

SHEET C-201

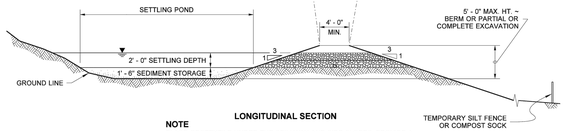
DRAWN BY: FERN LUDDELL



SECTION (A)



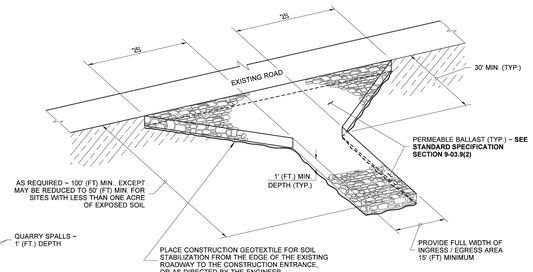
PARTIAL PLAN VIEW OF BERM
SHOWN LARGER FOR CLARITY



LONGITUDINAL SECTION

NOTE
PLACE GEOTEXTILE UNDER THE SPILLWAY AND SIDE SLOPES. PROVIDE A CONTINUOUS LAYER BETWEEN THE GRAVEL/ROCK AND THE NATIVE EARTHEN MATERIAL.

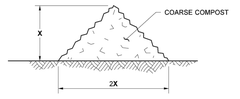
TEMPORARY SEDIMENT TRAP



ISOMETRIC VIEW

STABILIZED CONSTRUCTION ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE SHALL MEET THE REQUIREMENTS OF **STANDARD SPECIFICATION SECTION 8-01.3(7).**



X = 1' - 0" FOR SLOPES 4H:1V OR FLATTER
X = 1' - 6" FOR SLOPES STEEPER THAN 4H:1V

TYPICAL SECTION
COMPOST BERM DETAIL

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
JULI DEE HARTWIG
LICENSE NO. 1402
DATE 06-21-17

MISCELLANEOUS EROSION CONTROL DETAILS

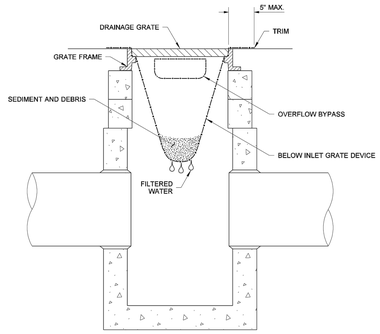
STANDARD PLAN I-80.10-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 15 2016 2:28 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

A C-201 STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS

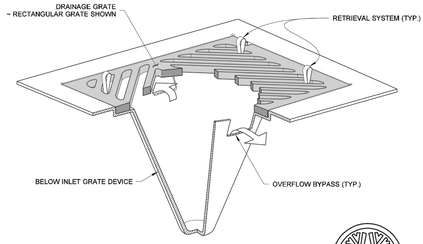
DRAWN BY: LISA CYFORD



SECTION VIEW
NOT TO SCALE

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



ISOMETRIC VIEW

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL DRAWING(S) UNLESS IT/THEY BEAR AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

STORM DRAIN INLET PROTECTION

STANDARD PLAN I-40.20-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

B C-201 STORM DRAIN INLET PROTECTION
SCALE: NTS

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22067 — REGISTERED PROFESSIONAL ENGINEER

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SHEET TITLE
EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NAME & ADDRESS
SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

CLIENT INFORMATION
BID SET

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

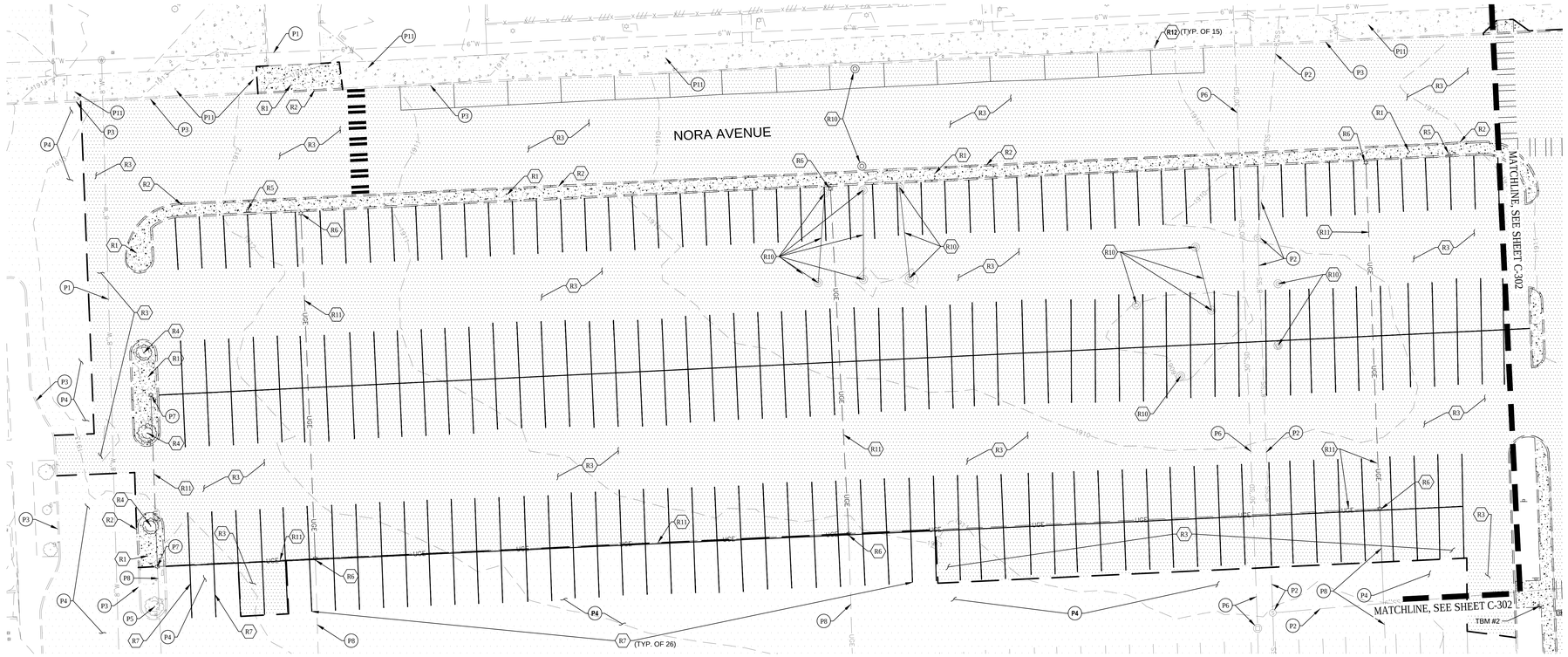
REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN BLW
CHECKED CBM
DATE 02/10/2019

SHEET C-202

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



SCALE: 1 INCH = 20 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1*	264461.24	2496583.91	1916.07	SET X
2	264735.01	2496582.25	1911.45	SET X
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31*	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW.

LEGEND

- ASPHALT REMOVAL
- CONCRETE REMOVAL
- SAWCUT

NOTES

1. CONTRACTOR TO COORDINATE PARKING METER REMOVAL WITH SPOKANE COMMUNITY COLLEGE. PATCH DISTURBED AREAS IN CONCRETE WALK AS NECESSARY.
2. LIGHTPOLES, SIGNS, AND PARKING METERS SHALL BE CAREFULLY REMOVED AND STORED FOR 2 WEEKS SO THAT SCC CAN SELECT WHAT THEY WOULD LIKE TO KEEP. THE CONTRACTOR SHALL ASSUME THAT ALL ITEMS SHOWN AS REMOVED SHALL BE HAULED OFFSITE FOR THE BID.
3. CONTRACTOR TO COORDINATE DEMOLITION, RELOCATION, AND REPLACEMENT OF IRRIGATION SYSTEM WITH LANDSCAPING PLANS.

KEY NOTES

R1	REMOVE CONCRETE
R2	REMOVE CURB
R3	REMOVE ASPHALT
R4	REMOVE TREE
R5	REMOVE SIGN
R6	REMOVE LIGHTPOLE, SEE NOTE 2
R7	OBLITERATE STRIPING
R8	REMOVE CURB RAMP
R9	REMOVE LANDSCAPING
R10	REMOVE STORM WATER UTILITIES
R11	REMOVE UNDERGROUND ELECTRICAL UTILITIES, OR ABANDON IN PLACE
R12	REMOVE PARKING METER, SEE NOTE 1 AND 2

P1	PROTECT WATER UTILITIES
P2	PROTECT SANITARY SEWER UTILITIES
P3	PROTECT CURB
P4	PROTECT ASPHALT
P5	PROTECT TREE
P6	PROTECT STORM WATER UTILITIES
P7	PROTECT LIGHTPOLE
P8	PROTECT ELECTRICAL UTILITIES
P9	PROTECT SIGN
P10	PROTECT CURB RAMP
P11	PROTECT CONCRETE

UTILITY STATEMENT
LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: DEMOLITION PLAN - WEST

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN DLS
CHECKED CBM
DATE 02/10/2019

SHEET C-301

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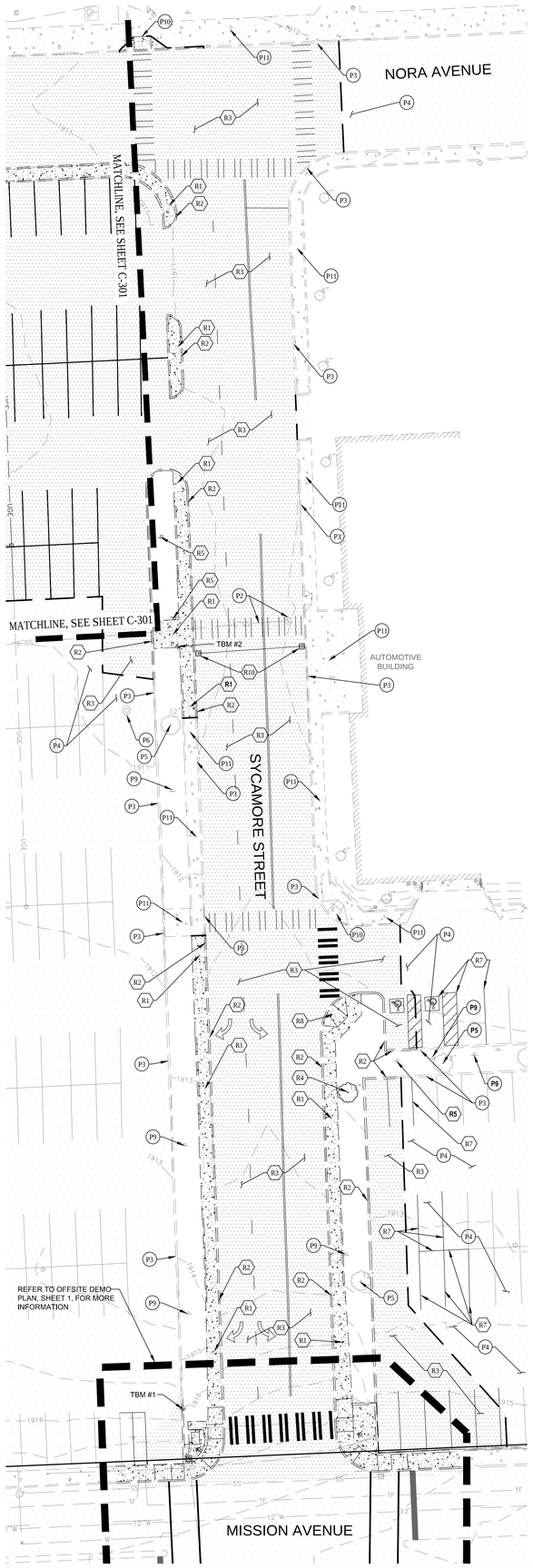

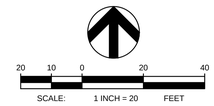

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LEGEND

- ASPHALT REMOVAL
- CONCRETE REMOVAL
- SAWCUT

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- R4 REMOVE TREE
- R5 REMOVE SIGN
- R6 REMOVE LIGHTPOLE
- R7 OBLITERATE STRIPING
- R8 REMOVE CURB RAMP
- R9 REMOVE LANDSCAPING
- R10 REMOVE STORM WATER UTILITIES
- R11 REMOVE UNDERGROUND ELECTRICAL UTILITIES

- P1 PROTECT WATER UTILITIES
- P2 PROTECT SANITARY SEWER UTILITIES
- P3 PROTECT CURB
- P4 PROTECT ASPHALT
- P5 PROTECT TREE
- P6 PROTECT STORM WATER UTILITIES
- P7 PROTECT LIGHTPOLE
- P8 PROTECT ELECTRICAL UTILITIES
- P9 PROTECT SIGN
- P10 PROTECT CURB RAMP
- P11 PROTECT CONCRETE

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STAMP

DEMOLITION PLAN - EAST

SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

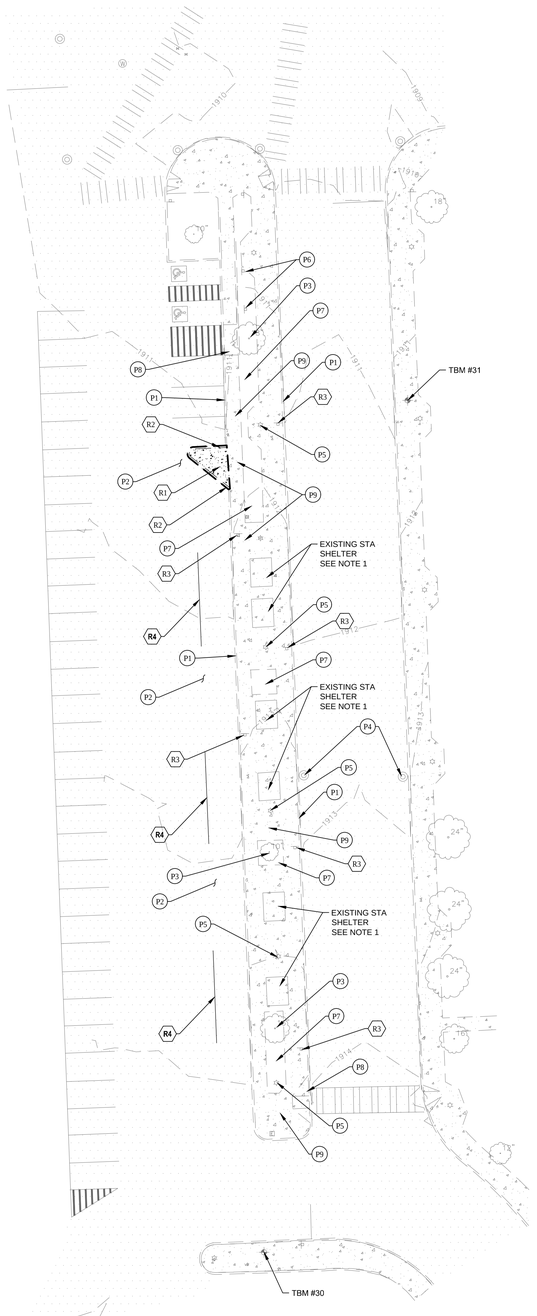
REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN DLS
CHECKED CBM
DATE 02/10/2019

SHEET C-302

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



20 10 0 20 40

SCALE: 1 INCH = 20 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1*	264461.24	2496583.91	1916.07	SET X
2*	264735.01	2496582.25	1911.45	SET X
30	265664.38	2495172.90	1915.11	SET X
31	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW.

LEGEND

CONCRETE REMOVAL

SAWCUT

NOTES

1. STA TO REMOVE EXISTING SHELTER.
2. STA TO REMOVE BUS STOP SIGNAGE AND POSTS. CONTRACTOR TO REMOVE BASES OR CUT DOWN BELOW SIDEWALK AND PATCH TO FLUSH.
3. NO WORK TO BEGIN IN THIS AREA PRIOR TO SUBSTANTIAL COMPLETION AND ISSUANCE OF NOTICE TO PROCEED #2.

KEY NOTES

R1	REMOVE CONCRETE
R2	REMOVE CURB
R3	REMOVE SIGN
R4	OBLITERATE STRIPING
P1	PROTECT CURB
P2	PROTECT ASPHALT
P3	PROTECT TREE
P4	PROTECT STORM WATER UTILITIES
P5	PROTECT LIGHTPOLE
P6	PROTECT SIGN
P7	PROTECT LANDSCAPING
P8	PROTECT CURB RAMP
P9	PROTECT CONCRETE

UTILITY STATEMENT

LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD STATE OF WASHINGTON 22067 REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: DEMOLITION PLAN - EXISTING STATION

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

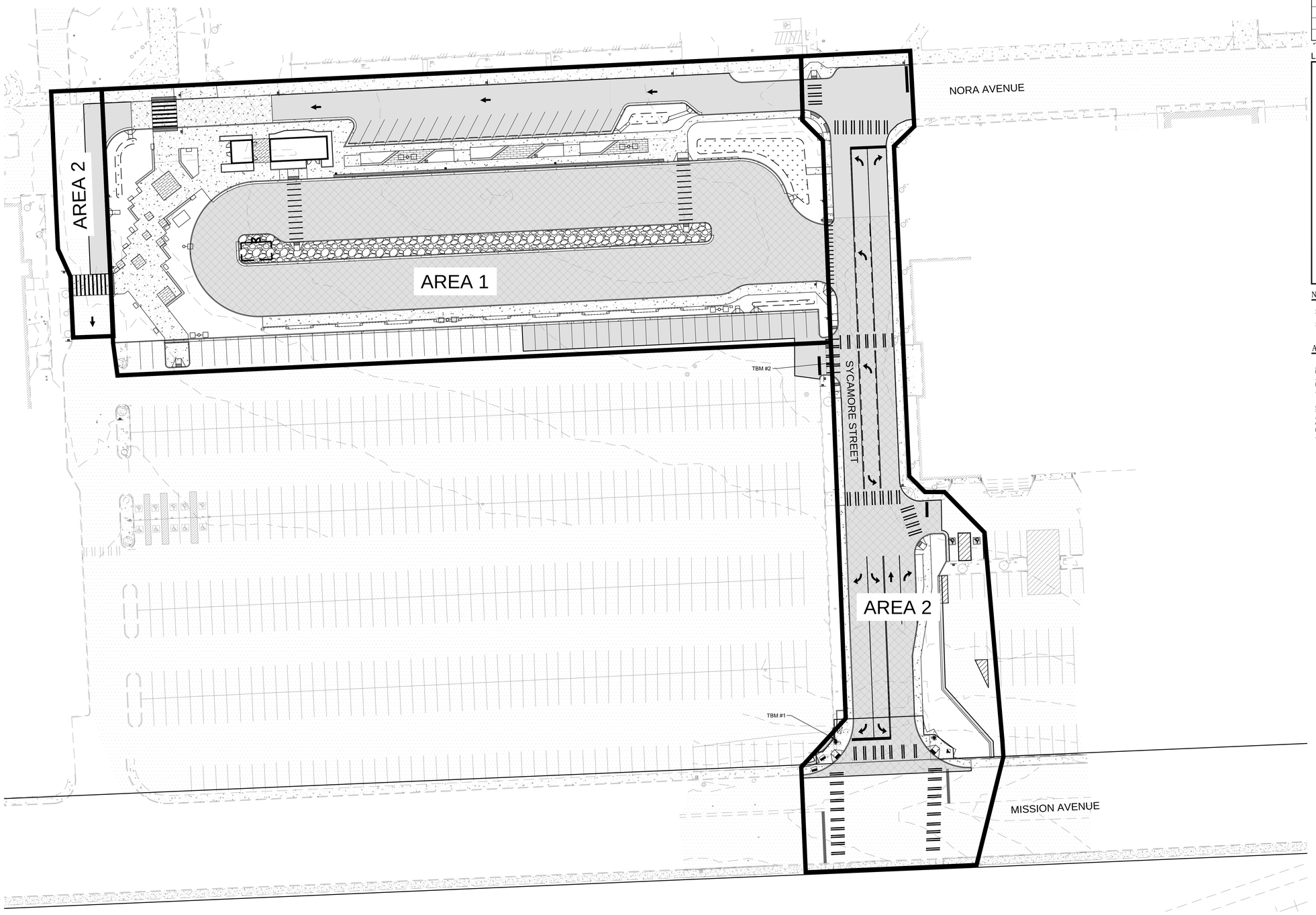
REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN BLW
CHECKED CBM
DATE 02/10/2019

SHEET C-303

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



30 15 0 30 60

SCALE: 1 INCH = 30 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	264461.24	2496583.91	1916.07	SET X
2	264735.01	2496582.25	1911.45	SET X
30*	265664.38	2495172.90	1915.11	SET X
31*	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

LEGEND

- CURB
- STRIPING
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- SWALE BOTTOM
- CONCRETE PAVER
- GRAVEL

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. CONTRACTOR TO MAINTAIN TWO-WAY TRAFFIC ON MISSION AVENUE THROUGHOUT CONSTRUCTION.

AREA NOTES

AREA 1:
DELINEATION AS CONSTRUCTION AREA (FENCING), ASSOCIATED SIGNAGE AND CONSTRUCTION BEGINS UPON NOTICE TO PROCEED. AREA 1 CONSTRUCTION CAN CONTINUE AFTER NOTICE TO PROCEED IS GIVEN FOR AREA 2.

AREA 2:
SHALL REMAIN FULLY ACCESSIBLE TO THE COLLEGE THROUGH JUNE 13TH. AFTER SUCH TIME THE CONTRACTOR SHALL BE GIVE NOTICE TO PROCEED WITH WORK IN THIS AREA. DELINEATION OF CONSTRUCTION AREA(FENCING) AND ASSOCIATED SIGNAGE TO BE REVISED ACCORDINGLY.

PARKING COUNT

	STALLS	ADA STALLS	TOTAL
EXISTING	811	12	823
PROPOSED	615	12	627

UTILITY STATEMENT

LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

OVERALL SITE PLAN

SHEET TITLE

SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
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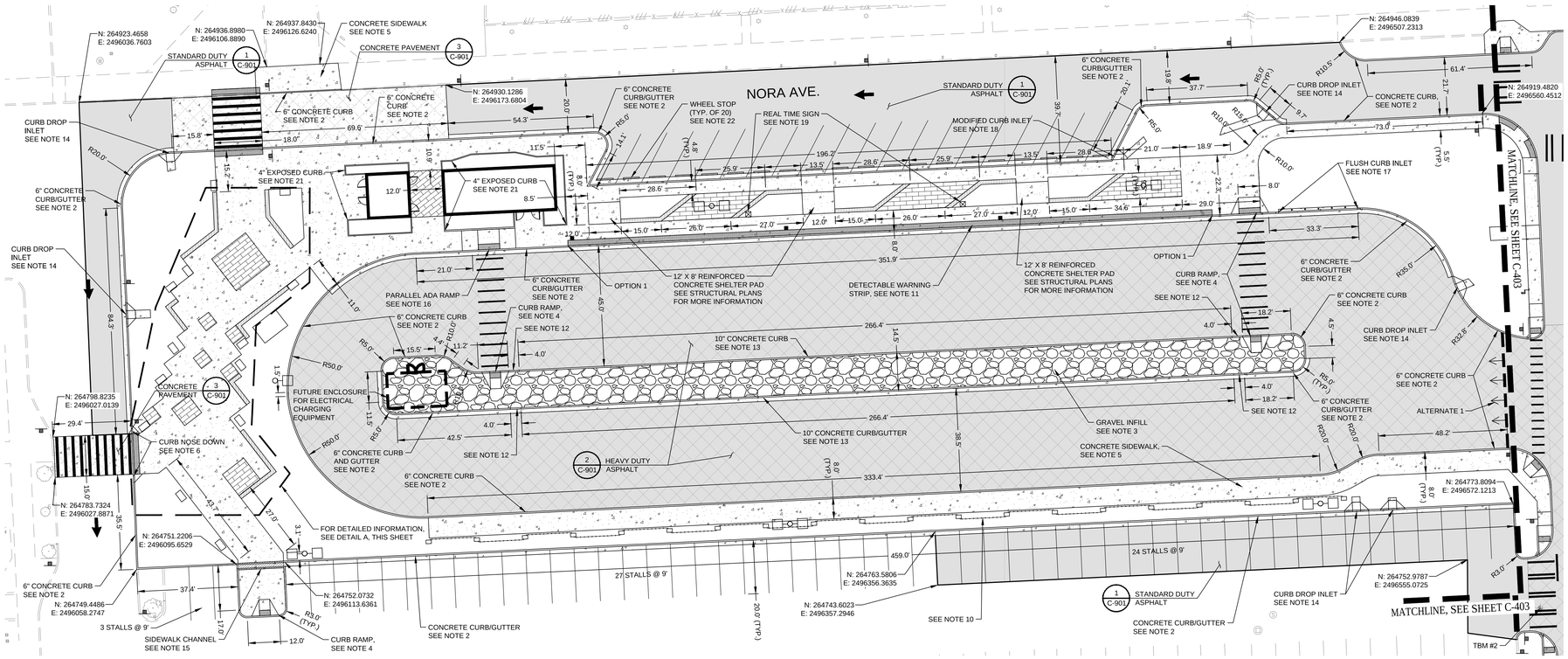
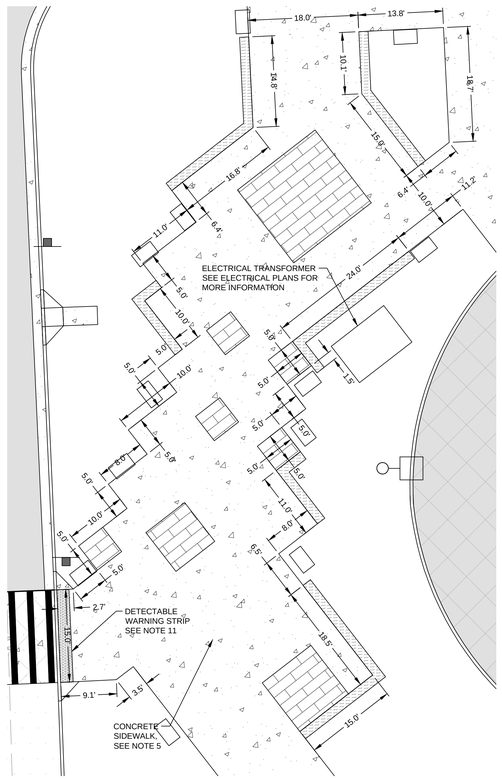
DATE 02/10/2019

SHEET C-401

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON





A PLAZA SITE PLAN
SCALE: 1" = 10'

SCALE: 1 INCH = 20 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1*	264461.24	2496583.91	1916.07	SET X
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31*	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

LEGEND

- CURB
- STRIPING
- LIGHTPOLE
- BOLLARD LIGHT
- FENCE
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- GRAVEL, SEE NOTE 3
- CONCRETE PAVER, SEE NOTE 9
- SITE WALL, SEE NOTE 20

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. 6" TALL CONCRETE CURB/GUTTER AND CURB SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-106.
3. INSTALL 8" OF CRUSHED SURFACING TOP COURSE (WSDOT SPECIFICATION 9-03.9(3)), COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557. FINISH GRADE OF GRAVEL SHALL BE FLUSH WITH TOP OF CURB.
4. CURB RAMP (TYPE 1) SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-105.
5. CONCRETE SIDEWALK SHALL CONFORM WITH CITY OF SPOKANE STANDARD PLAN F-102. REFER TO LANDSCAPING PLANS FOR JOINTING LAYOUT. CONTRACTOR SHALL SUBMIT JOINTING LAYOUT FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
6. TRANSITION FROM VERTICAL CURB TO FLUSH CONDITION (ONE FOOT CURB NOSE DOWN).
7. SEE SHEETS C-501 AND C-502 FOR ADDITIONAL INFORMATION REGARDING SITE SIGNING AND STRIPING.
8. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION REGARDING SITE LIGHTING.
9. REFER TO LANDSCAPING PLANS FOR ADDITIONAL INFORMATION REGARDING LANDSCAPE SURFACING AND CONCRETE PAVERS.
10. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION ON CONSTRUCTION OF FENCE.
11. DETECTABLE WARNING STRIP SHALL CONFORM WITH WSDOT STANDARD PLAN F-45.10.
12. TRANSITION FROM 6" TALL CURB TO 10" TALL CURB.
13. 10" CONCRETE CURB/GUTTER AND CURB SHALL CONFORM WITH DETAIL 7, SHEET C-901.
14. CURB DROP INLET AND DRAIN PAD SHALL CONFORM TO DETAIL 5, SHEET C-901. SEE DETAIL 16, SHEET L-500, FOR ADDITIONAL INFORMATION ON DRAIN PAD FINISH.
15. SIDEWALK CHANNEL SHALL CONFORM WITH DETAIL 8, SHEET C-901.
16. PARALLEL CURB RAMP SHALL COMPLY WITH WSDOT STANDARD PLAN F-40.12-03.
17. FLUSH CURB INLET SHALL COMPLY WITH DETAIL 10, SHEET C-902.
18. MODIFIED CURB INLET SHALL COMPLY WITH DETAIL 9, SHEET C-902.
19. COORDINATE FINAL LOCATION OF REAL TIME SIGN WITH STA IN THE FIELD. SEE ELECTRICAL AND STRUCTURAL PLANS FOR MORE INFORMATION ON REAL TIME SIGN INSTALLATION.
20. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION ON SITE WALL CONSTRUCTION.
21. 4" TALL EXPOSED CURB SHALL CONFORM WITH DETAIL 6, SHEET C-901.
22. CONCRETE WHEEL STOP SHALL CONFORM WITH DETAIL 11, SHEET C-902.

OWNER OPTIONS

BASE BID: BETWEEN CALLOUTS, INSTALL CURB WITHOUT POLYETHYLENE RUB RAIL.

1. INSTALL POLYETHYLENE RUB RAIL ALONG FACE OF CURB BETWEEN CALLOUTS. RUB RAIL SHALL BE GAR-DUR PLASTIC YELLOW UHMW RUB RAIL UNITS, OR APPROVED EQUAL.
2. SEE SHEET C-403.
3. SEE SHEET C-403.

OWNER ALTERNATES

BASE BID: CONTRACTOR TO INSTALL HEAVY DUTY ASPHALT AS SHOWN ON THIS SHEET.

1. CONTRACTOR TO INSTALL CONCRETE PAVEMENT PER DETAIL 3, SHEET C-901, IN PLACE OF HEAVY DUTY ASPHALT FOR BUS CENTER/LOOP WEST OF LINE SHOWN.

UTILITY STATEMENT
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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22640 — REGISTERED PROFESSIONAL ENGINEER
STAMP

SHEET TITLE: SITE PLAN - WEST

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
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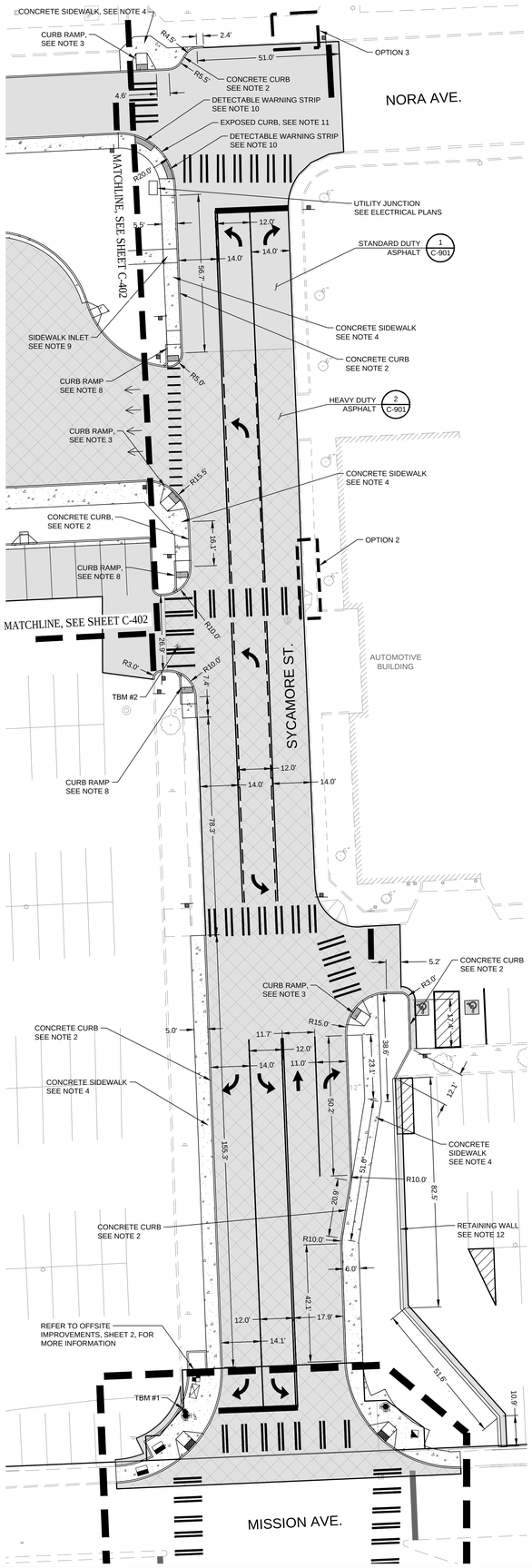
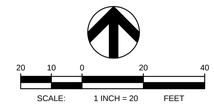
DATE 02/10/2019

SHEET C-402

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON





TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
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2	264735.01	2496582.25	1911.45	SET X
30*	265664.38	2495172.90	1915.11	SET X
31*	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

LEGEND

- CURB
- STRIPING
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. 6" CONCRETE CURB/GUTTER AND CURB SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-106.
3. CURB RAMP (TYPE 1) SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-105.
4. CONCRETE SIDEWALK SHALL CONFORM WITH CITY OF SPOKANE STANDARD PLAN F-102. REFER TO LANDSCAPING PLANS FOR JOINTING LAYOUT. CONTRACTOR SHALL SUBMIT JOINTING LAYOUT FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
5. SEE SHEETS C-501 AND C-502 FOR ADDITIONAL INFORMATION REGARDING SITE SIGNING AND STRIPING.
6. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION REGARDING SITE LIGHTING.
7. REFER TO LANDSCAPING PLANS FOR ADDITIONAL INFORMATION REGARDING LANDSCAPE SURFACING AND CONCRETE PAVERS.
8. CURB RAMP (TYPE 3) SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-105C.
9. CONCRETE SIDEWALK INLET SHALL CONFORM TO DETAIL 4, SHEET C-901.
10. DETECTABLE WARNING STRIP SHALL CONFORM WITH WSDOT STANDARD PLAN F-45.10.
11. 6" TALL EXPOSED CURB SHALL CONFORM WITH DETAIL 6, SHEET C-901.
12. SEE SHEET C-602 FOR ELEVATIONS AT RETAINING WALL. SEE STRUCTURAL PLANS FOR MORE INFORMATION RELATED TO RETAINING WALL.

OWNER OPTIONS

BASE BID: THE PEDESTRIAN RAMPS, AND ASSOCIATED GRADING AND STRIPING SHALL BE INSTALLED PER SHEETS C-403, C-502, AND C-602.

1. SEE SHEET C-402.
2. REMOVE AND REPLACE EXISTING PEDESTRIAN RAMP TO THE WEST OF THE AUTOMOTIVE BUILDING. SEE DETAIL 23, SHEET C-905.
3. ADD A CURB RAMP (TYPE 1) TO THE NORTHEAST CORNER OF THE INTERSECTION OF NORA AND SYCAMORE. DEMOLISH EXISTING SIDEWALK AS NECESSARY TO MAKE ROOM FOR IMPROVEMENTS. STRIPE NORTH-SOUTH PEDESTRIAN CROSSING ON THE EAST LEG OF THE INTERSECTION. SEE DETAIL 23, SHEET C-905, FOR DESIGN INFORMATION.

UTILITY STATEMENT
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THOMAS L. ARNOLD — STATE OF WASHINGTON — 25067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: SITE PLAN - EAST

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
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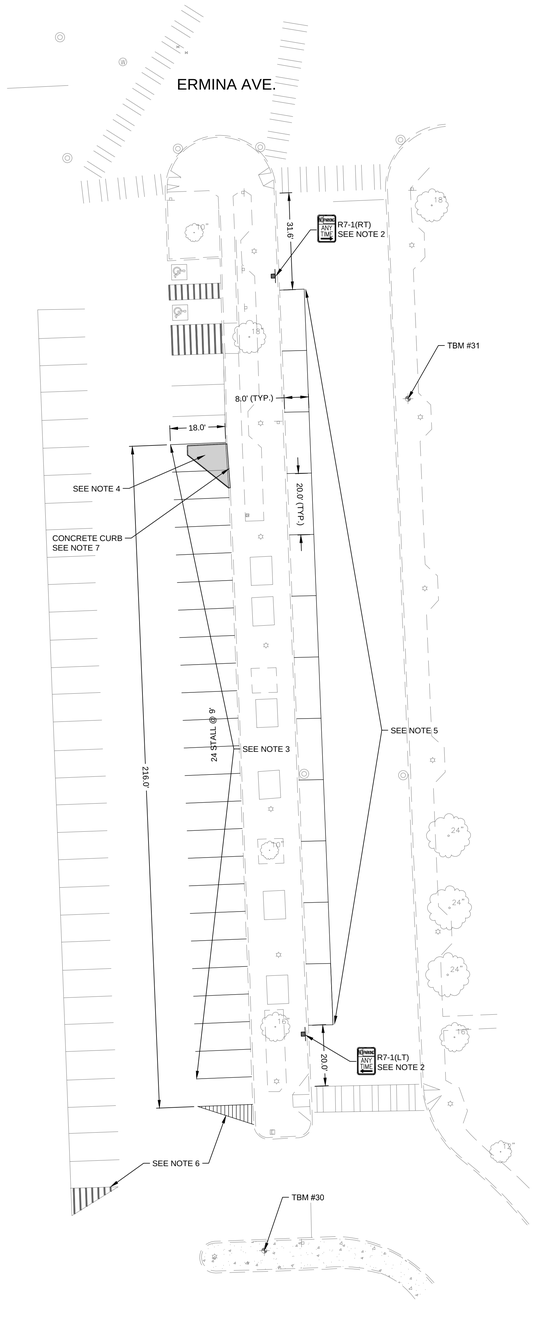
DATE	02/10/2019

SHEET C-403

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



20 10 0 20 40

SCALE: 1 INCH = 20 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
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30	265664.38	2495172.90	1915.11	SET X
31	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

LEGEND

- CURB
- STRIPING
- STANDARD DUTY ASPHALT
- SIGN

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. INSTALL NEW SIGN(S) AS INDICATED BY SIGN CODE ADJACENT TO SYMBOL, UNLESS OTHERWISE NOTED. INSTALL SIGN(S) ON NEW POST PER CITY OF SPOKANE STANDARD PLAN G-10C.
3. STRIPING SHALL BE PAINTED 4" THICK, TRAFFIC YELLOW.
4. STANDARD DUTY ASPHALT SHALL COMPLY WITH DETAIL 1, SHEET C-901.
5. PARKING STALL LINES SHALL BE 4" THICK PAINTED TRAFFIC YELLOW.
6. CONTRACTOR TO PAINT TRIANGLE YELLOW AND MATCH EXISTING PAINTED TRIANGLES PATTERN.
7. CONCRETE CURB SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-106.

UTILITY STATEMENT

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 25067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: SITE PLAN - EXISTING STATION

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
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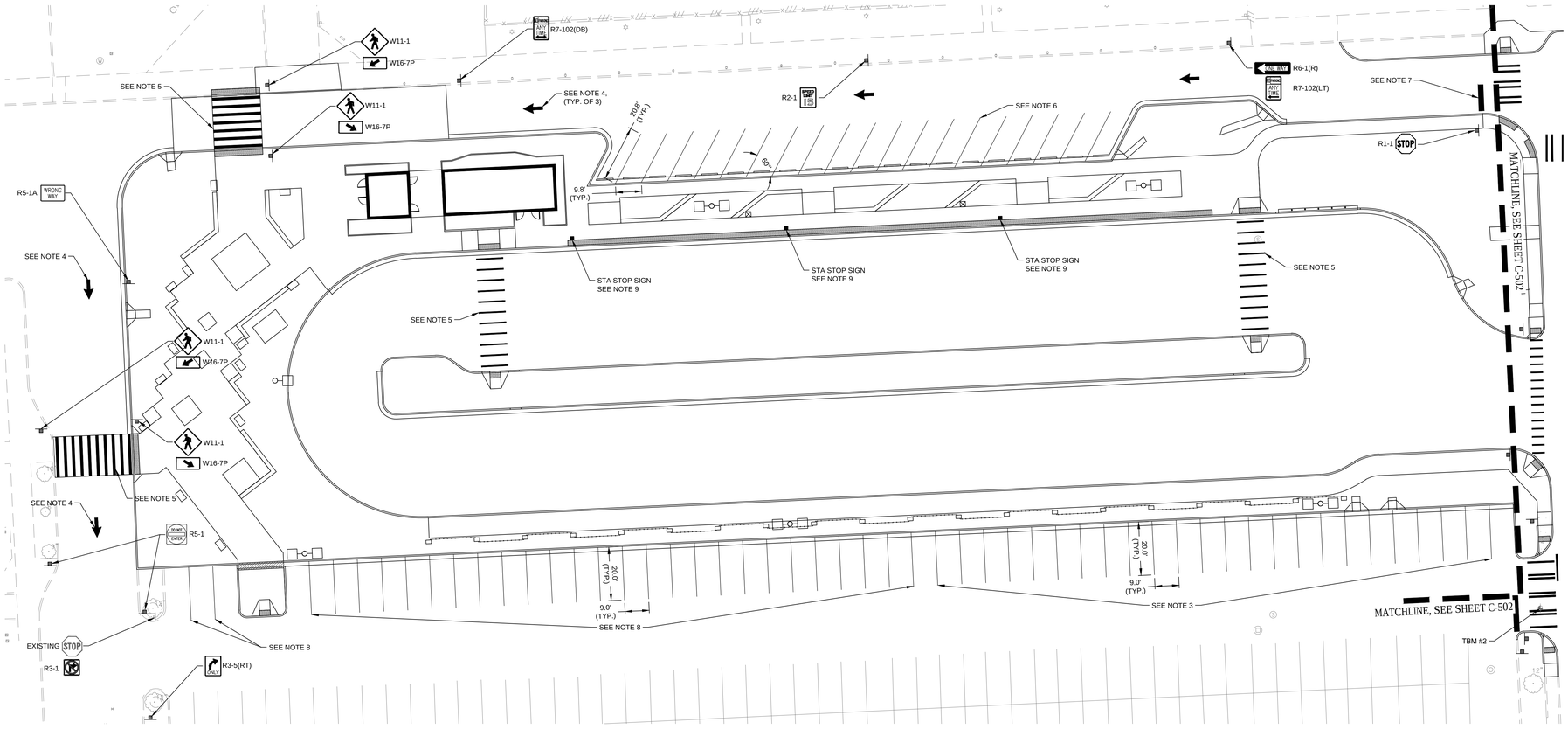
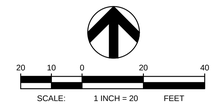
SHEET C-404

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON





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*TBM NOT SHOWN ON PLAN VIEW

LEGEND

CURB

STRIPING

SIGN

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. INSTALL NEW SIGN(S) AS INDICATED BY SIGN CODE ADJACENT TO SYMBOL. UNLESS OTHERWISE NOTED, INSTALL SIGN(S) ON NEW POST PER CITY OF SPOKANE STANDARD PLAN G-10C.
3. STRIPING SHALL BE PAINTED 4" THICK, TRAFFIC YELLOW.
4. WHITE ARROW SYMBOL. DURABLE HEAT APPLIED THERMOPLASTIC - TYPE B, SEE CITY OF SPOKANE STANDARD PLAN G-52A.
5. CROSSWALK STRIPING SHALL BE PAINTED WHITE, 8" THICK, SPACED 4' BETWEEN CENTERLINES OF STRIPES AND INSTALLED PARALLEL TO WALK.
6. SEE SHEETS C-402 AND C-403 FOR ADDITIONAL INFORMATION REGARDING PROPOSED PARKING LAYOUT.
7. CROSSWALK/ STOP LINE PAVEMENT MARKINGS SHALL COMPLY WITH CITY OF SPOKANE STANDARD PLAN G-51.
8. DEMOLISH EXISTING STRIPING AND RE-STRIPE AS SHOWN. STRIPING SHALL BE PAINTED 4" THICK, TRAFFIC YELLOW.
9. CONTRACTOR SHALL INSTALL SIGN POST AND BASE IN CONCRETE PER CITY OF SPOKANE STANDARD PLAN G-10C. COORDINATE IN THE FIELD WITH STA FOR SIGN LOCATION. STA TO PROVIDE AND INSTALL SIGN.

UTILITY STATEMENT

LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD STATE OF WASHINGTON 22067 REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: SIGNAGE & STRIPING - WEST

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
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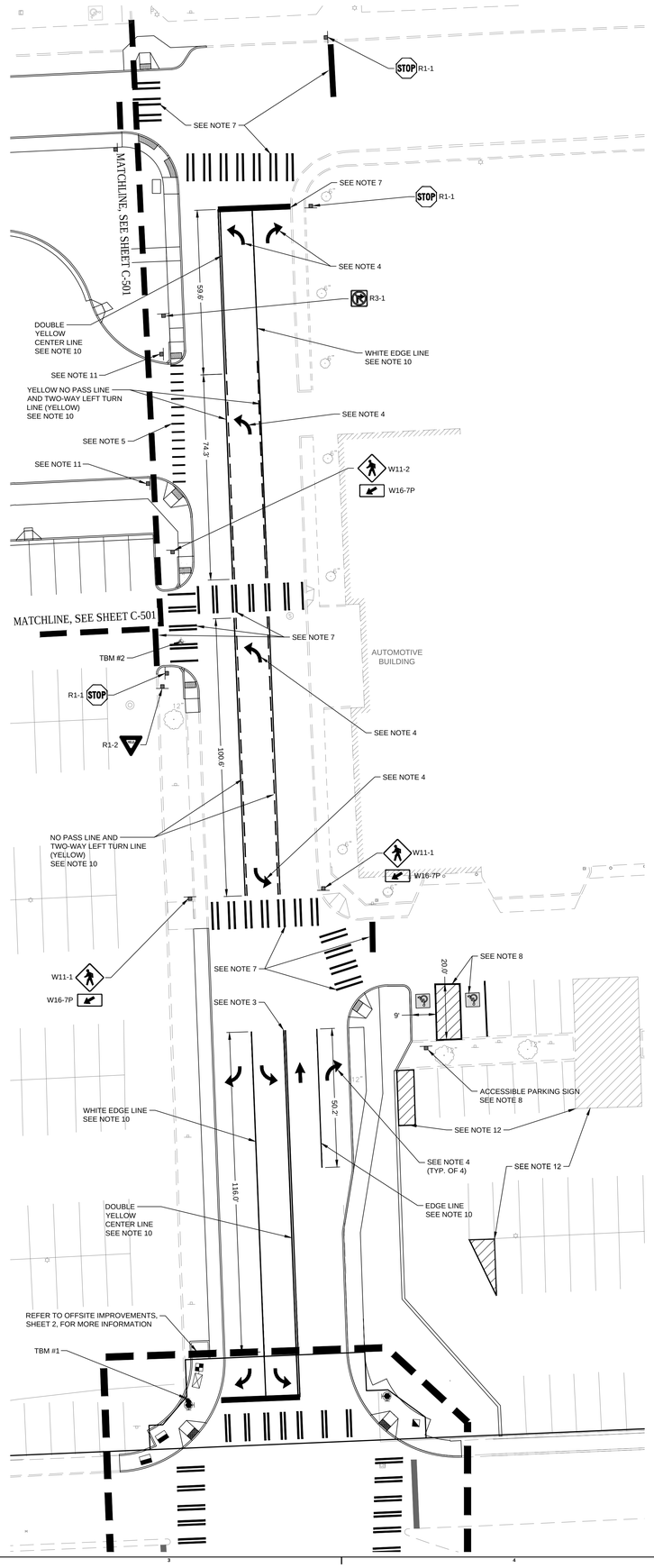
CHECKED CBM
DATE 02/10/2019

SHEET C-501

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



20 10 0 20 40

SCALE: 1 INCH = 20 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	264461.24	2496583.91	1916.07	SET X
2	264735.01	2496582.25	1911.45	SET X
30*	265664.38	2495172.90	1915.11	SET X
31*	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

LEGEND

CURB

STRIPING

SIGN

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. INSTALL NEW SIGN(S) AS INDICATED BY SIGN CODE ADJACENT TO SYMBOL. UNLESS OTHERWISE NOTED. INSTALL SIGN(S) ON NEW POST PER CITY OF SPOKANE STANDARD PLAN G-10C.
3. STRIPING SHALL BE PAINTED 4" THICK, TRAFFIC YELLOW.
4. WHITE ARROW SYMBOL. DURABLE HEAT APPLIED THERMOPLASTIC - TYPE B, SEE CITY OF SPOKANE STANDARD PLAN G-52A.
5. CROSSWALK STRIPING SHALL BE PAINTED WHITE, 8" THICK, SPACED 4' BETWEEN CENTERLINES OF STRIPES AND INSTALLED PARALLEL TO WALK.
6. SEE SHEETS C-402 AND C-403 FOR ADDITIONAL INFORMATION REGARDING PROPOSED PARKING LAYOUT.
7. CROSSWALK/ STOP LINE PAVEMENT MARKINGS SHALL BE PAINTED WHITE AND COMPLY WITH CITY OF SPOKANE STANDARD PLAN G-51.
8. SEE DETAILS 24 AND 25, SHEET C-905, FOR MORE INFORMATION REGARDING ACCESSIBLE PARKING SPACE SIGNING AND STRIPING
9. DEMOLISH EXISTING STRIPING AND RE-STRIPE AS SHOWN.
10. ROAD STRIPING SHALL COMPLY WITH CITY OF SPOKANE STANDARD PLAN G-50A.
11. "DO NOT ENTER BUS ONLY" SIGN SHALL COMPLY WITH PART #K-2954 ON ROADTRAFFICSIGNS.COM. SEE DETAIL 1, THIS SHEET, FOR SIGN EXAMPLE.
12. CONTRACTOR TO PAINT NO PARKING AREA YELLOW AND MATCH EXISTING PAINT PATTERN.

1 SIGN EXAMPLE
SCALE: NTS

UTILITY STATEMENT
LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD STATE OF WASHINGTON 25067 REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: SIGNAGE & STRIPING - EAST

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION: BID SET

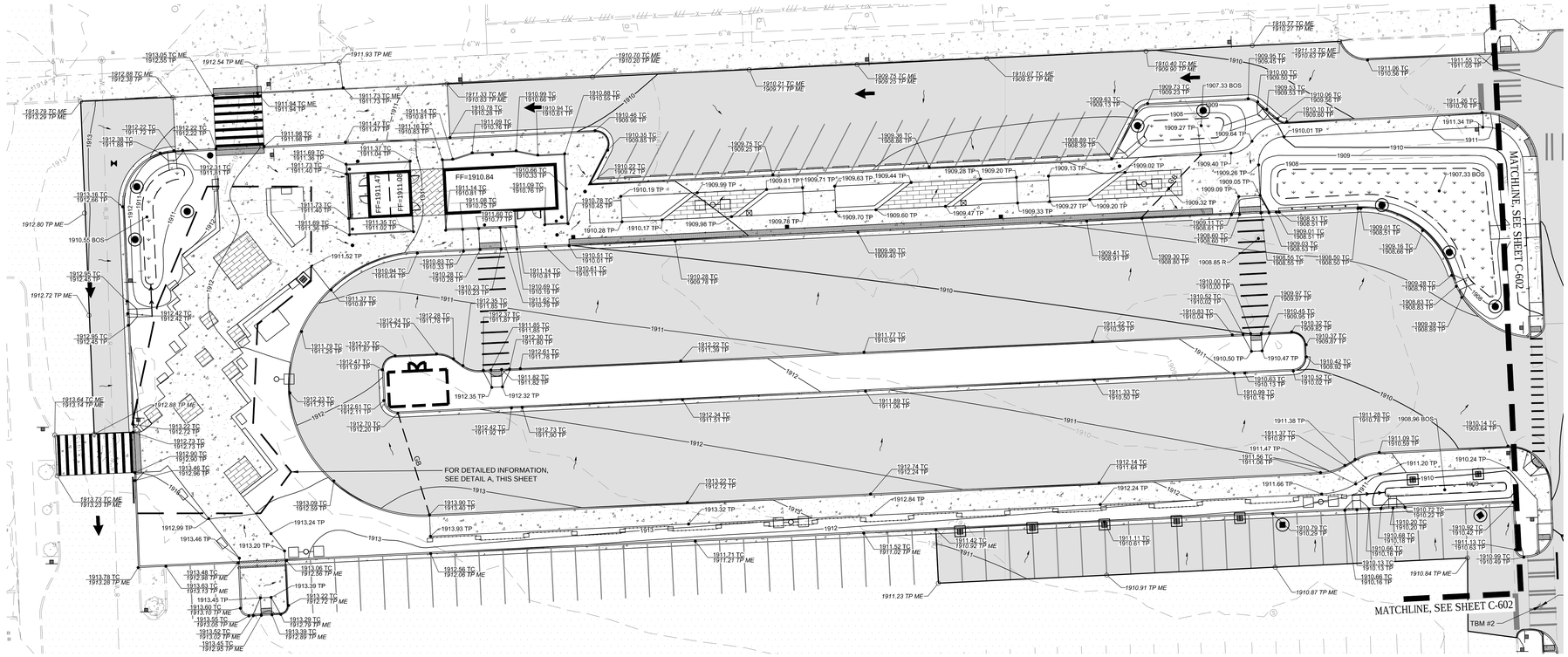
REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	BLW
CHECKED	CBM
DATE	02/10/2019

SHEET: C-502

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



SCALE: 1 INCH = 20 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1"	264461.24	2496583.91	1916.07	SET X
2	264735.01	2496582.25	1911.45	SET X
30"	265664.38	2495172.90	1915.11	SET X
31"	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

ABBREVIATIONS

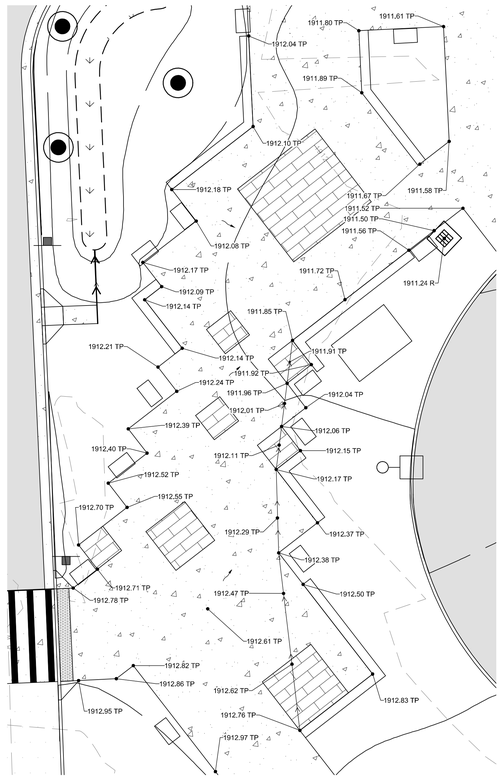
GB	GRADE BREAK
ME	MATCH EXISTING
TC	TOP OF CURB
TP	TOP OF PAVEMENT
R	RIM
BOS	BOTTOM OF SWALE

LEGEND

- BIO-INFILTRATION SWALE
- 1879 — EXISTING CONTOUR
- 1879 — PROPOSED CONTOUR
- GB — GRADE BREAK
- FLOW ARROW
- DRYWELL
- CATCH BASIN
- STORM MANHOLE
- FLOW LINE
- 1881.00 — SPOT ELEVATION
- CURB INLET

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. WHERE CONCRETE CURB BORDERS A BIO-INFILTRATION SWALE OR DRAINAGE CHANNEL, SIDE SLOPES SHALL BE GRADED TO THE TOP OF PAVEMENT ELEVATION, TO MAINTAIN MAX 3:1 SLOPE.
3. REFER TO SHEET C-403 FOR HORIZONTAL CONTROL.
4. CONTOURS SHOWN ARE 1 FOOT CONTOURS UNLESS OTHERWISE NOTED.
5. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING LANDSCAPE SURFACING.



A PLAZA GRADING
SCALE: 1" = 10'

UTILITY STATEMENT
LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22640 — REGISTERED PROFESSIONAL ENGINEER
STAMP

GRADING PLAN - WEST

SCC TRANSIT CENTER
1810 N. GREENES STREET
SPOKANE, WA 99217

SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

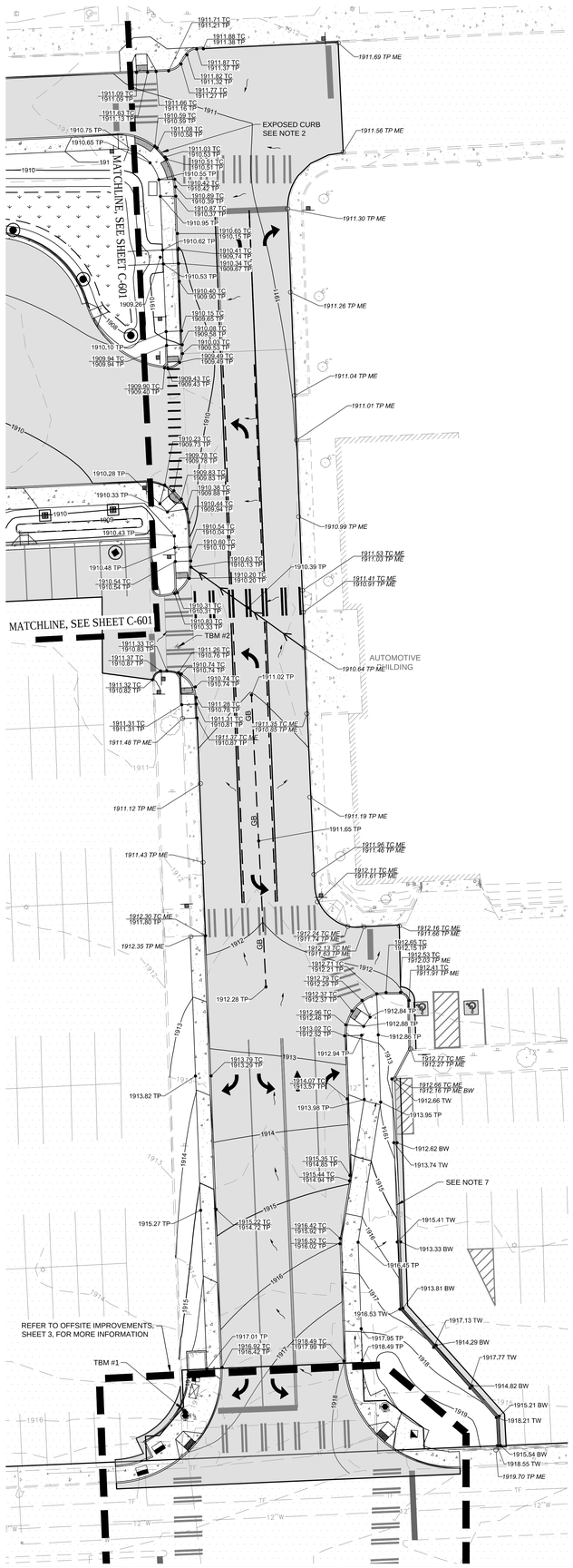
REVISIONS

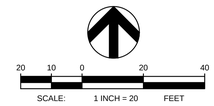
No.	Date	By

PROJ. NO.	2018-10258
DRAWN	BLW
CHECKED	CBM
DATE	02/10/2019

SHEET C-601

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON





TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	264461.24	2496583.91	1916.07	SET X
2	264735.01	2496582.25	1911.45	SET X
30*	265664.38	2495172.90	1915.11	SET X
31*	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

ABBREVIATIONS

GB	GRADE BREAK
ME	MATCH EXISTING
TC	TOP OF CURB
TP	TOP OF PAVEMENT
R	RIM
TW	TOP OF WALL
BW	BOTTOM OF WALL

LEGEND

BIO-INFILTRATION SWALE
1879 EXISTING CONTOUR
1879 PROPOSED CONTOUR
GB GRADE BREAK
FLOW ARROW
DRYWELL
CATCH BASIN
STORM MANHOLE
1881.00 SPOT ELEVATION
FLOW LINE

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. EXPOSED CURB SHALL COMPLY WITH DETAIL 6, SHEET C-901.
3. WHERE CONCRETE CURB BORDERS A BIO-INFILTRATION SWALE OR DRAINAGE CHANNEL, SIDE SLOPES SHALL BE GRADED TO THE TOP OF PAVEMENT ELEVATION, TO MAINTAIN MAX 3:1 SLOPE.
4. REFER TO SHEET C-403 FOR HORIZONTAL CONTROL.
5. CONTOURS SHOWN ARE 1 FOOT CONTOURS UNLESS OTHERWISE NOTED.
6. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING LANDSCAPE SURFACING.
7. SEE STRUCTURAL PLANS FOR MORE INFORMATION REGARDING CONSTRUCTION OF RETAINING WALL.

UTILITY STATEMENT
LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD STATE OF WASHINGTON 22067 REGISTERED PROFESSIONAL ENGINEER
STAMP

SHEET TITLE: GRADING PLAN - EAST

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

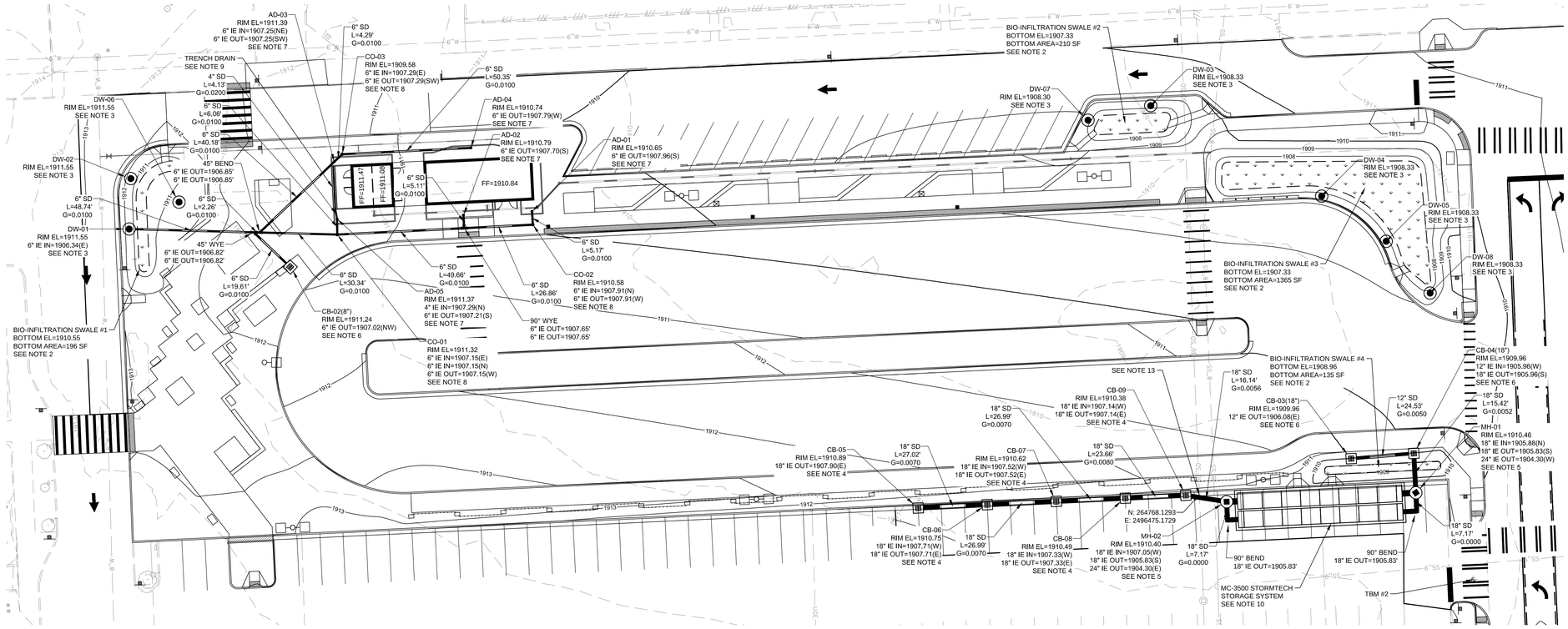
REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN BLW
CHECKED CBM
DATE 02/10/2019

SHEET C-602

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



20 10 0 20 40

SCALE: 1 INCH = 20 FEET

TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1*	264461.24	2496583.91	1916.07	SET X
2	264735.01	2496582.25	1911.45	SET X
30*	265664.38	2495172.90	1915.11	SET X
31*	265942.16	2495219.74	1911.40	SET X

*TBM NOT SHOWN ON PLAN VIEW

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- STORM PIPE
- SEWER PIPE
- WATER PIPE
- BIO-INFILTRATION SWALE
- STORM MANHOLE
- DRYWELL
- CURB INLET
- CATCH BASIN
- AREA DRAIN
- CLEANOUT

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. SEE DETAIL 12-15, SHEETC-902, FOR MORE INFORMATION REGARDING BIO-INFILTRATION SWALE CONSTRUCTION.
3. TYPE 2 DRYWELL SHALL CONFORM WITH CITY OF SPOKANE STANDARD PLAN B-102D.
4. INSTALL TYPE 1 CATCH BASIN PER CITY OF SPOKANE STANDARD PLAN B-101C.
5. INSTALL NYLOPLAST 48" HP MH PER DETAIL 20, SHEET C-903, OR APPROVED EQUAL.
6. INSTALL 8" OR 18" NYLOPLAST DRAIN BASIN PER DETAIL 18, SHEET C-903, OR APPROVED EQUAL.
7. INSTALL 8" NYLOPLAST INLINE DRAIN PER DETAIL 19, SHEET C-903, OR APPROVED EQUAL.
8. STORM CLEANOUT SHALL CONFORM DETAIL 26, SHEET C-905.
9. TRENCH DRAIN SHALL BE ACO K100 WITH CLASS E SLOTTED GRATE AND CONSTANT SLOPE, OR APPROVED EQUAL. SEE DETAIL 16, SHEET C-902 FOR OUTFALL CONNECTION TO CB-01. SLOPE TRENCH DRAIN FROM NORTH TO SOUTH, TO COLLECT WATER AT 4" OUTFALL.
10. INSTALL MC-3500 STORMTECH STORAGE SYSTEM PER DETAILS 21 AND 22 ON SHEETS C-903 AND C-904, OR APPROVED EQUAL.
11. STORM DRAIN PIPE WITH DIAMETERS OF 4" - 10" SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS, AASHTO M 252M. MAINTAIN A MINIMUM 1 FOOT OF COVER OVER STORM DRAIN PIPES. PIPE COMPACTION AND BACKFILL SHALL COMPLY WITH WSDOT STANDARD PLAN B-55.20-01.
12. STORM DRAIN PIPE WITH DIAMETERS OF 12" - 60" SHALL BE HIGH DENSITY POLYPROPYLENE (HDPP), TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS, AASHTO M330 AND/OR ASTM F2764. MAINTAIN A MINIMUM 1 FOOT OF COVER OVER STORM DRAIN PIPES. PIPE COMPACTION AND BACKFILL SHALL COMPLY WITH WSDOT STANDARD PLAN B-55.20-01.
13. BEFORE CONSTRUCTION, CONTRACTOR SHALL IDENTIFY, AND PROVIDE TO ENGINEER, THE TOP OF PIPE ELEVATION FOR THE EXISTING 30" STORM LINE WHERE THE PROPOSED STORM LINE CROSSES.

UTILITY STATEMENT

LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: DRAINAGE PLAN

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

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No.	Date	By

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DATE 02/10/2019

SHEET C-701

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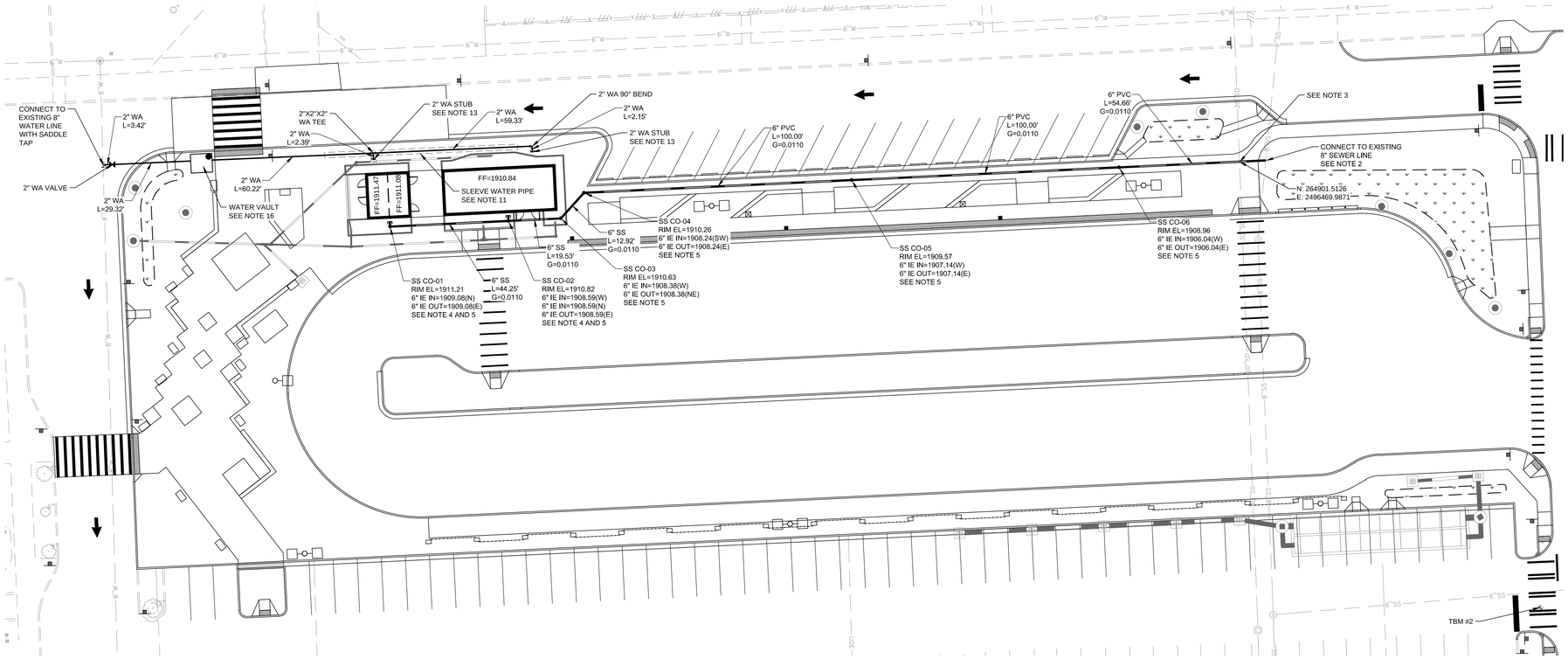

20 10 0 20 40

SCALE: 1 INCH = 20 FEET

TBM INFORMATION

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*TBM NOT SHOWN ON PLAN VIEW

LEGEND

- STORM PIPE
- SANITARY SEWER PIPE
- WATER PIPE
- PIPE SLEEVING
- CLEANOUT

NOTES

1. SEE SHEET C-101 FOR GENERAL NOTES.
2. TAP EXISTING 8" SEWER LINE PER CITY OF SPOKANE STANDARD PLAN Z-116.
3. BEFORE CONSTRUCTION, CONTRACTOR SHALL IDENTIFY, AND PROVIDE TO ENGINEER, THE TOP OF PIPE ELEVATION FOR THE EXISTING 30" STORM LINE WHERE THE PROPOSED SEWER LINE CROSSES.
4. COORDINATE CLEANOUT AT BUILDING WITH MECHANICAL PLANS.
5. SANITARY SEWER CLEANOUTS SHALL COMPLY WITH DETAIL 26, SHEET C-905.
6. UTILITY PIPE TRENCHING, BEDDING, AND BACKFILL SHALL COMPLY WITH CITY OF SPOKANE STANDARD PLAN NO. B-18C AND B18-D.
7. SANITARY SEWER SERVICES SHALL BE POLYVINYL CHLORIDE PLASTIC (PVC), ASTM D 3034, SDR 35 WITH BELL-AND-SPIGOT ENDS FOR GASKETED JOINTS WITH ASTM F 477 ELASTOMERIC SEALS.
8. SEWER WORK MUST BE DONE UNDER THE SUPERVISION AND INSPECTION OF THE WASTEWATER MANAGEMENT DIVISION. THE CONTRACTOR MUST CONTACT THE WASTEWATER MANAGEMENT MAINTENANCE DIVISION OFFICE IN ORDER TO ARRANGE A MUTUALLY AGREEABLE INSPECTION SCHEDULE. ALL FACILITIES MUST BE UNCOVERED AT THE TIME OF INSPECTION.
9. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AT POINTS OF CONNECTION AND CROSSINGS PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR SHALL COORDINATE CONNECTION OF WATER LINE TO EXISTING UTILITIES WITH OWNER.
11. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 5' OF HORIZONTAL AND 1.5' OF VERTICAL SEPARATION BETWEEN ALL PARALLEL SEWER AND WATER LINES. WATER MAINS AND WATER SERVICES CROSSING SEWERS AND HAVING LESS THAN 18" OF VERTICAL SEPARATION MUST BE SLEEVED WITH WATER CLASS PIPE 20 FEET MIN. WITH 10 FEET PERPENDICULAR DISTANCE FROM SEWER.
12. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED 75% OF MAXIMUM ALLOWED DEFLECTION, PER MANUFACTURER'S RECOMMENDATIONS.
13. REFER TO MECHANICAL PLANS FOR CONTINUATION OF SERVICES WITHIN THE BUILDING.
14. WATER LINES SHALL BE INSTALLED WITH A MINIMUM OF 5' OF COVER FROM TOP OF PIPE TO FINISH GRADE.
15. WATER SERVICES SHALL BE HIGH-DENSITY POLYETHYLENE PIPE (HPDE), IRON PIPE SIZE (IPS), AWWA C901, DR NO.11, WITH PE COMPOUND NUMBER REQUIRED TO GIVE PRESSURE RATING NOT LESS THAN 200 PSIG, COMPLYING WITH CITY OF SPOKANE REQUIREMENTS. HDPE PIPE SHALL BE INSTALLED WITH DETECTABLE WARNING TAPE.
16. WATER VAULT SHALL CONFORM WITH DETAIL 17, SHEET C-902.

UTILITY STATEMENT
LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

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THOMAS L. ARNOLD STATE OF WASHINGTON 22067 REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: UTILITY PLAN

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

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REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
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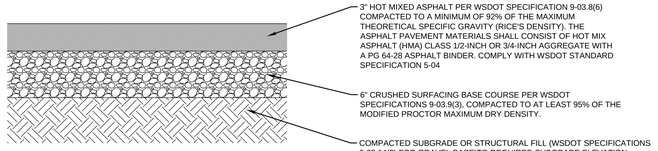
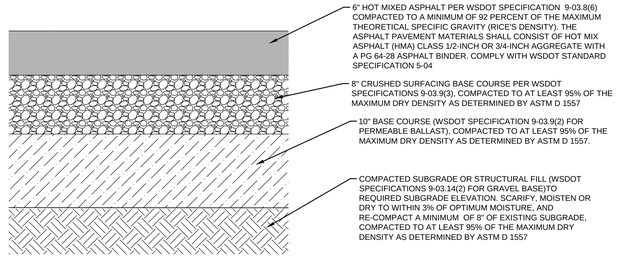
SHEET: C-801



NOTES:

1. PLACE ACCEPTABLE SOIL MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATIONS.
2. MATERIAL AND COMPACTION REQUIREMENTS SHALL CONFORM WITH WSDOT STANDARDS AND GEOTECHNICAL ENGINEERING RECOMMENDATIONS ASSOCIATED WITH THE SUBJECT SITE.
3. IF EXISTING SUBGRADE SOIL CONDITIONS INHIBIT PROPER COMPACTION, OVER EXCAVATE AND REPLACE SOIL WITH APPROVED ONSITE MATERIAL OR IMPORTED MATERIAL.

1 STANDARD DUTY ASPHALT
SCALE: NTS
C-402, C-403, C-404



NOTES:

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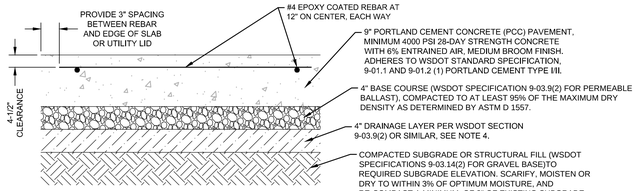
2. MATERIAL AND COMPACTION REQUIREMENTS SHALL CONFORM WITH WSDOT STANDARDS AND GEOTECHNICAL ENGINEERING RECOMMENDATIONS ASSOCIATED WITH THE SUBJECT SITE.
3. IF EXISTING SUBGRADE SOIL CONDITIONS INHIBIT PROPER COMPACTION, OVER EXCAVATE AND REPLACE SOIL WITH APPROVED ONSITE MATERIAL OR IMPORTED MATERIAL.

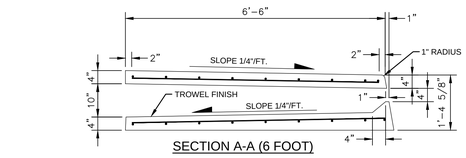
2 HEAVY DUTY ASPHALT
SCALE: NTS
C-402, C-403



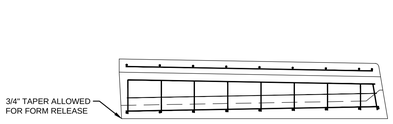
NOTES:

1. EXPANSION (ISOLATION) JOINTS SHALL USE A 3/8" PREMOLDED JOINT FILLER PER SEC 9-04.1(2). JOINTS SHALL EXTEND THROUGH THE FULL CROSS-SECTION OF THE CONCRETE & CURB GUTTER, WHERE APPLICABLE.
2. CONTRACTION (CONTROL) JOINTS SHALL BE SPACED NO FURTHER THAN 1.5 TIMES THE SHORTEST DIMENSION, OR 15'-0" ON CENTER MAX.
3. PROVIDE THICKENED EDGE AT TRANSITIONS TO OTHER PAVED STRUCTURES.
4. OPEN-GRADED, CRUSHED GRAVEL AGGREGATE IS RECOMMENDED. WSDOT MATERIAL SPECIFICATION SHOULD BE USED FOR SELECTION OF THE OPEN GRADED GRAVEL MATERIAL SELECTION. "PERMEABLE BALLAST" AND "AGGREGATE FOR BITUMINOUS SURFACE TREATMENT" ARE ACCEPTABLE WSDOT MATERIALS.
5. CONCRETE SHALL BE JOINTED PLAIN CONCRETE PAVEMENT WITH DOWELED TRANSVERSE JOINTS AND TIED LONGITUDINAL JOINTS. MAXIMUM JOINT SPACING IS 15 FEET.DOWELS SHALL BE 1.25 TO 1.5-INCH DIAMETER BY 18 INCHES LONG EPOXY-COATED BAR, SPACED 24 INCHES APART, AND PLACED AT MID SLAB DEPTH. TIES SHALL BE #4 OR LARGER-SIZED BAR, AT LEAST 24 INCHES LONG, SPACED 36 INCHES APART, AND PLACED AT MID-SLAB DEPTH.
6. CONTRACTOR SHALL PROVIDE SUBMITTAL FOR JOINT LAYOUT WITH DOWELS AND TIE BARS. PROVIDE 3-INCH SPACING BETWEEN REBAR AND JOINTS. DO NOT RUN REBAR CONTINUOUSLY BEYOND JOINTS.

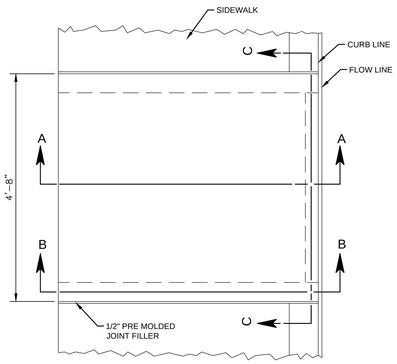
3 C-402 CONCRETE PAVEMENT
SCALE: NTS



SECTION A-A (6 FOOT)



SECTION B-B
REBAR PLACEMENT

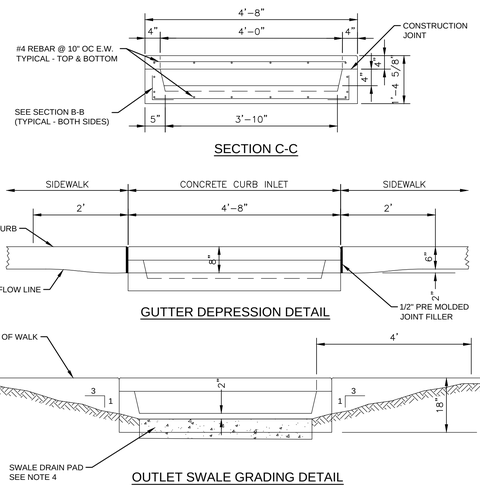


PLAN

NOTES:

1. CURB INLET SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE PROJECT SPECIAL PROVISIONS.
2. TOP SURFACE TO BE BROOM FINISHED.
3. EXTERNAL EDGES NOT LABELED SHALL BE TROWELED WITH 1/4" RADIUS EDGER.
4. SWALE DRAIN PAD SHALL BE CONSTRUCTED USING 4" OF AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE OVER 2" OF CRUSH SURFACING TOP COURSE. SWALE DRAIN PAD SHALL MATCH OUTLET WIDTH AND EXTEND TO BOTTOM OF SWALE.

4 C-403 CONCRETE SIDEWALK INLET
SCALE: NTS

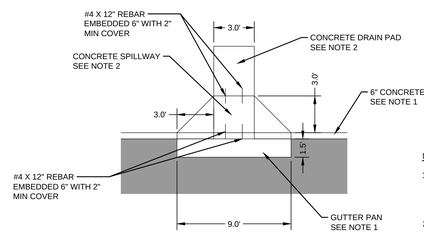


SECTION C-C

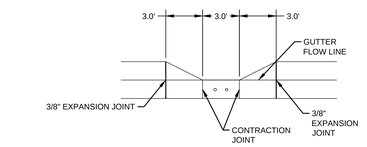
GUTTER DEPRESSION DETAIL

OUTLET SWALE GRADING DETAIL

5 C-402 CURB DROP INLET
SCALE: NTS



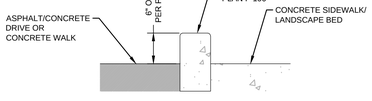
PLAN VIEW



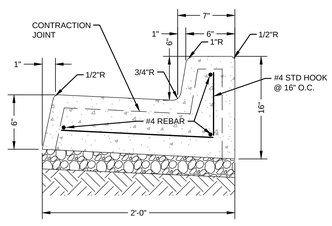
SECTION VIEW

NOTES:

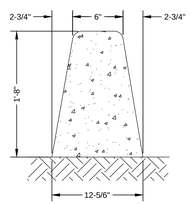
1. CONCRETE CURB AND GUTTER PAN SHALL CONFORM WITH CITY OF SPOKANE STANDARD PLAN F-106.
2. CONCRETE SPILLWAY AND DRAIN PAD SHALL BE CONSTRUCTED USING 4" OF AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE OVER 2" OF CRUSH SURFACING TOP COURSE. SWALE DRAIN PAD SHALL EXTEND TO BOTTOM OF SWALE OR FLOWLINE, WHICHEVER APPLIES.



6 C-403 EXPOSED CURB
SCALE: NTS



CONCRETE CURB/GUTTER

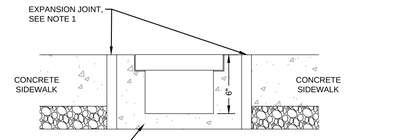


CONCRETE CURB

NOTES:

1. CONCRETE CURB AND CURB/GUTTER SHALL BE CONSTRUCTED USING AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE.
2. EXPANSION JOINTS SHALL USE A 3/8" MIN PREMOLDED JOINT FILLER. EXPANSION JOINTS SHALL EXTEND THROUGH THE FULL CROSS-SECTION OF THE CURB OR CURB/GUTTER AND PLACED BETWEEN EXISTING AND NEW CONCRETE WHERE SIDEWALKS, DRIVEWAYS, CURB, AND CURB/GUTTER ARE REMOVED FOR NEW CONSTRUCTION.
3. CONTRACTION JOINTS SHALL BE PLACED ACROSS THE CURB OR CURB/GUTTER AND BE SPACED AT A MAX. 15'-0" O.C.
4. THE CROSS SLOPE OF THE GUTTER SHALL SLOPE OF THE ROADWAY. THEREFORE, THE CURB/GUTTER SHALL BE ROTATED ACCORDINGLY.
5. PROVIDE COMPACTED CSTC UNDERNEATH CURB/GUTTER TO THE LIMITS SHOWN ON STD PLAN W-102.

7 C-402 10" CONCRETE CURB
SCALE: NTS



NOTES:

1. EXPANSION (ISOLATION) JOINTS SHALL USE A 3/8" MIN PREMOLDED JOINT FILLER PER WSDOT SECTION 9-04.1(2). JOINTS SHALL EXTEND THROUGH THE FULL CROSS-SECTION OF THE CONCRETE AND CURB, WHERE APPLICABLE.
2. ADA COMPLIANT GRATE AND FRAME SHALL BE ZURN Z717-DCC, OR APPROVED EQUAL.
3. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRANAGE FROM WEST TO EAST IN CHANNEL, SEE SHEET C-601 FOR GRADES AT CHANNEL.

8 C-402 SIDEWALK CHANNEL
SCALE: NTS

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Coeur d'Alene, Idaho 83815
208.676.8292
alscarchitects.com

THOMAS L. ARNOLD STATE OF WASHINGTON 22067 REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: DETAIL SHEET

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

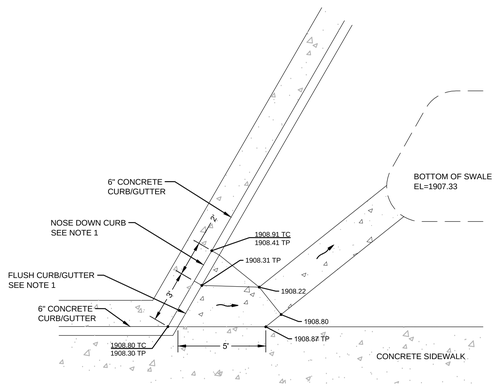
BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN BLW
CHECKED CBM
DATE 02/10/2019

SHEET C-901

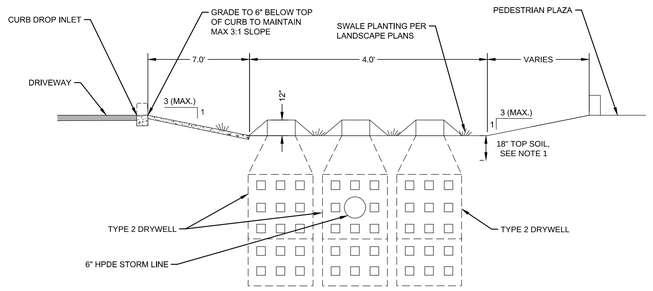


NOTES:

1. TRANSITION FROM VERTICAL CURB TO FLUSH CONDITION (TWO FOOT CURB NOSE DOWN).
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE FROM ROADWAY TO SWALE ACROSS FLUSH CURB AND GUTTER.

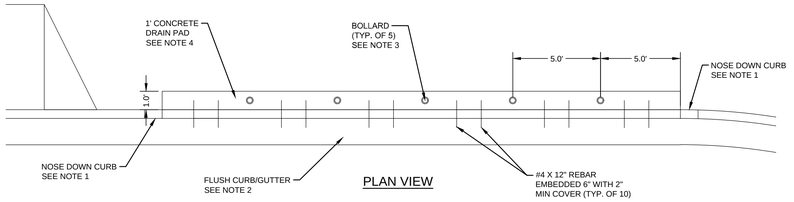
9 C-402 MODIFIED CURB INLET

SCALE: NTS



BIOINFILTRATION SWALE NOTES:

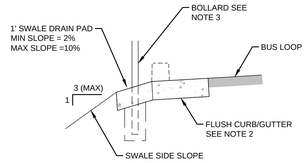
1. SOILS IN THE SWALE AREA SHALL COMPLY WITH THE INFILTRATION RATE CRITERIA INDICATED IN TABLE 6-1 OF THE SPOKANE REGIONAL STORMWATER MANUAL, APRIL 2008. DO NOT OVER-COMPACT SWALE BOTTOM.
   - 1.1. TREATMENT ZONE INFILTRATION RATE (VEGETATED COVER AND TREATMENT LAYER) BETWEEN 0.25 AND 0.50 INCHES/HOUR.
   - 1.2. SUBGRADE INFILTRATE RATE OF AT LEAST 0.15 INCHES/HOUR.
   - 1.3. AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLEQUIVELANTS/100 GRAMS.
   - 1.4. ORGANIC MATTER CONTENT OF AT LEAST 5.0% (8.0% OPTIMUM) BY WEIGHT.
   - 1.5. MINIMUM 18 INCHES OF FREE-DRAINING TOPSOIL.
2. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING SWALE PLANTINGS.
3. SET DRYWELLS IN SIDE SLOPE OF SWALE, SEE PLAN FOR LOCATION AND RIM ELEVATION.



PLAN VIEW

NOTES:

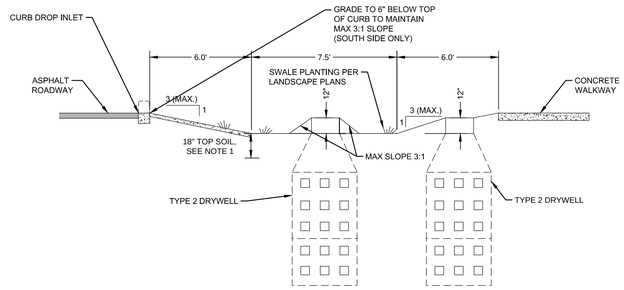
1. TRANSITION FROM VERTICAL CURB TO FLUSH CONDITION (ONE FOOT CURB NOSE DOWN).
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE FROM ROADWAY TO SWALE ACROSS FLUSH CURB AND GUTTER.
3. INSTALL 5 BOLLARDS EVERY 5' O.C., BOLLARDS SHALL CONFORM TO WSDOT STANDARD PLAN H-60.10-01.
4. 1' CONCRETE DRAIN PAD SHALL BE 6" THICK, MATCHING INSTALLATION REQUIREMENTS FOR CURSHED ROCK AND JOINTING AS PROVIDED ON CITY OF SPOKANE STANDARD PLAN F-106. MATCH JOINT LOCATIONS OF FLUSH CURB/GUTTER.



SECTION VIEW

10 C-402 FLUSH CURB INLET

SCALE: NTS

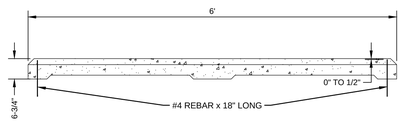


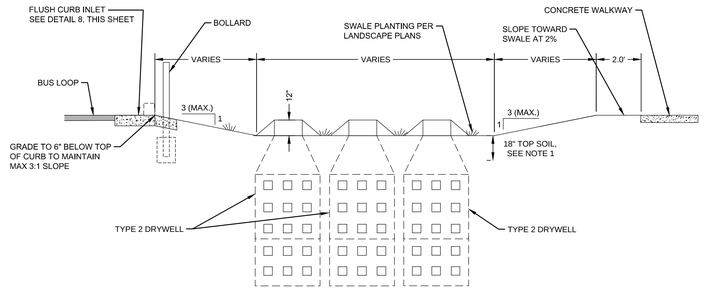
BIOINFILTRATION SWALE NOTES:

1. SOILS IN THE SWALE AREA SHALL COMPLY WITH THE INFILTRATION RATE CRITERIA INDICATED IN TABLE 6-1 OF THE SPOKANE REGIONAL STORMWATER MANUAL, APRIL 2008. DO NOT OVER-COMPACT SWALE BOTTOM.
   - 1.1. TREATMENT ZONE INFILTRATION RATE (VEGETATED COVER AND TREATMENT LAYER) BETWEEN 0.25 AND 0.50 INCHES/HOUR.
   - 1.2. SUBGRADE INFILTRATE RATE OF AT LEAST 0.15 INCHES/HOUR.
   - 1.3. AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLEQUIVELANTS/100 GRAMS.
   - 1.4. ORGANIC MATTER CONTENT OF AT LEAST 5.0% (8.0% OPTIMUM) BY WEIGHT.
   - 1.5. MINIMUM 18 INCHES OF FREE-DRAINING TOPSOIL.
2. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING SWALE PLANTINGS.
3. SET DRYWELLS IN SIDE SLOPE OF SWALE, SEE PLAN FOR LOCATION AND RIM ELEVATION.

11 C-402 CONCRETE WHEEL STOP

SCALE: NTS



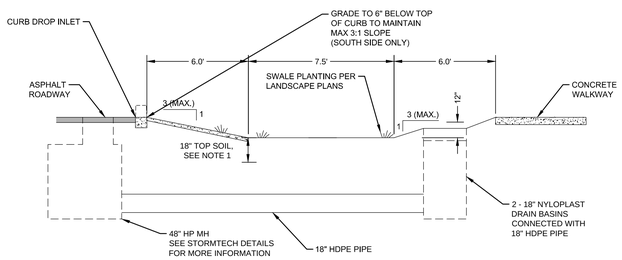


BIOINFILTRATION SWALE NOTES:

1. SOILS IN THE SWALE AREA SHALL COMPLY WITH THE INFILTRATION RATE CRITERIA INDICATED IN TABLE 6-1 OF THE SPOKANE REGIONAL STORMWATER MANUAL, APRIL 2008. DO NOT OVER-COMPACT SWALE BOTTOM.
   - 1.1. TREATMENT ZONE INFILTRATION RATE (VEGETATED COVER AND TREATMENT LAYER) BETWEEN 0.25 AND 0.50 INCHES/HOUR.
   - 1.2. SUBGRADE INFILTRATE RATE OF AT LEAST 0.15 INCHES/HOUR.
   - 1.3. AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLEQUIVELANTS/100 GRAMS.
   - 1.4. ORGANIC MATTER CONTENT OF AT LEAST 5.0% (8.0% OPTIMUM) BY WEIGHT.
   - 1.5. MINIMUM 18 INCHES OF FREE-DRAINING TOPSOIL.
2. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING SWALE PLANTINGS.
3. SET DRYWELLS IN SIDE SLOPE OF SWALE, SEE PLAN FOR LOCATION AND RIM ELEVATION.

12 C-701 BIO-INFILTRATION SWALE #1

SCALE: NTS

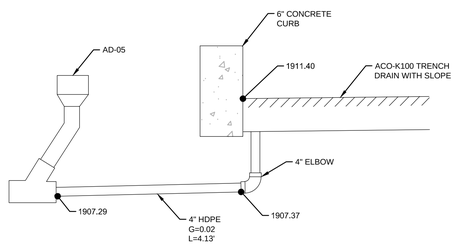


BIOINFILTRATION SWALE NOTES:

1. SOILS IN THE SWALE AREA SHALL COMPLY WITH THE INFILTRATION RATE CRITERIA INDICATED IN TABLE 6-1 OF THE SPOKANE REGIONAL STORMWATER MANUAL, APRIL 2008. DO NOT OVER-COMPACT SWALE BOTTOM.
   - 1.1. TREATMENT ZONE INFILTRATION RATE (VEGETATED COVER AND TREATMENT LAYER) BETWEEN 0.25 AND 0.50 INCHES/HOUR.
   - 1.2. SUBGRADE INFILTRATE RATE OF AT LEAST 0.15 INCHES/HOUR.
   - 1.3. AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLEQUIVELANTS/100 GRAMS.
   - 1.4. ORGANIC MATTER CONTENT OF AT LEAST 5.0% (8.0% OPTIMUM) BY WEIGHT.
   - 1.5. MINIMUM 18 INCHES OF FREE-DRAINING TOPSOIL.
2. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING SWALE PLANTINGS.
3. SET NYLOPLAST DRAIN BASINS IN SIDE SLOPE OF SWALE, SEE PLAN FOR LOCATION AND RIM ELEVATION.

13 C-701 BIO-INFILTRATION SWALE #2

SCALE: NTS

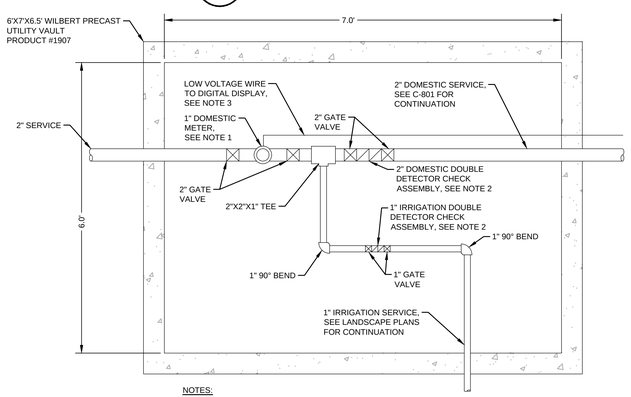


NOTES:

1. SEE SHEET C-701 FOR ADDITIONAL DESIGN INFORMATION.

14 C-701 BIO-INFILTRATION SWALE #3

SCALE: NTS



NOTES:

1. 1" WATER METER SHALL BE A BADGER RECORDALL DISC METER MODEL RCDL-55 WITH HR-E HIGH RESOLUTION ENCODER. SEE MECHANICAL PLANS FOR MORE INFORMATION.
2. 2" DOMESTIC DOUBLE DETECTOR CHECK ASSEMBLY SHALL BE A WATTS LF009M2-QT-20.
3. RUN LOW VOLTAGE WIRE FROM WATER METER TO DIGITAL DISPLAY IN BUILDING. SEE MECHANICAL PLANS FOR EXACT LOCATION OF DIGITAL DISPLAY.
4. 1" IRRIGATION DOUBLE DETECTOR ASSEMBLY SHALL BE A WATTS 007 MIQT.
5. CONTRACTOR TO PROVIDE PIPE JACK SUPPORTS AS NEEDED.

15 C-701 BIO-INFILTRATION SWALE #4

SCALE: NTS

16 C-701 TRENCH DRAIN OUTFALL CONNECTION

SCALE: NTS

17 C-801 WATER VAULT

SCALE: NTS

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THOMAS L. ARNOLD STATE OF WASHINGTON 22067 REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: DETAIL SHEET

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

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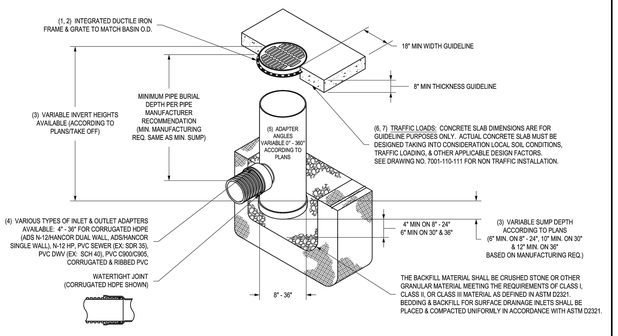
No.	Date	By

PROJ. NO.	2018-10258
DRAWN	BLW
CHECKED	CBM
DATE	02/10/2019

SHEET C-902

NYLOPLAST DRAIN BASIN WITH STANDARD GRATE



1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-80-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-60-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

DRAWN BY	EBC	MATERIAL	
DATE	1-23-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	06-12-18		
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1	

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

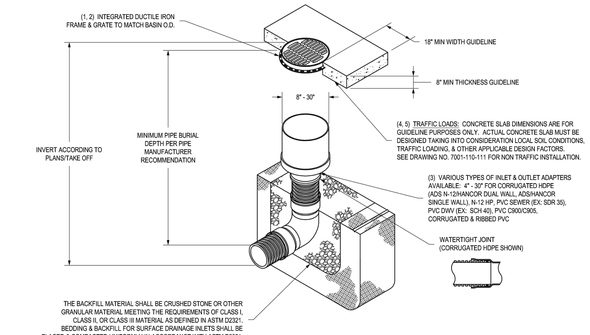
TITLE: DRAIN BASIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL

DWG NO. 7901-110-144 REV J

NOTE:
1. DRAIN BASIN SHALL NOT BE INSTALLED WITH CONCRETE COLLAR AROUND RIM.

18 C–701 DRAIN BASIN
SCALE: NTS

NYLOPLAST INLINE DRAIN WITH STANDARD GRATE



1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-60-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO INLINE DRAINS SEE DRAWING NO. 7003-110-000 & 7003-110-001.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
4 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
5 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

DRAWN BY	EBC	MATERIAL	
DATE	1-23-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16		
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1	

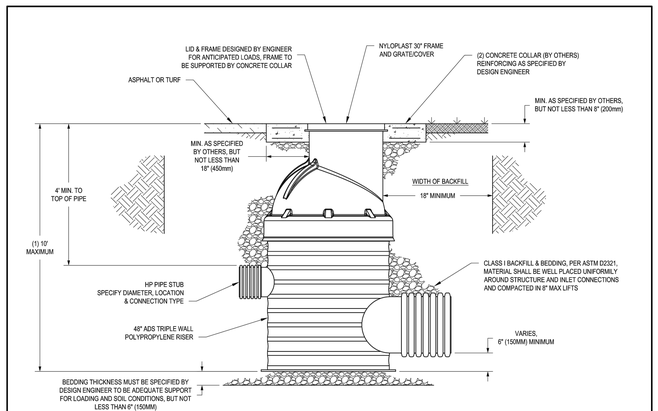
Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: INLINE DRAIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL

DWG NO. 7003-110-022 REV J

NOTE:
1. INLINE DRAIN SHALL NOT BE INSTALLED WITH CONCRETE COLLAR AROUND RIM.

19 C–701 INLINE DRAIN
SCALE: NTS



NOTES:
1. FOR BURIAL DEPTHS GREATER THAN 10', OR WHERE GROUND WATER WILL BE ENCOUNTERED, CONTACT NYLOPLAST ENGINEERING
2. AVOID CONSTRUCTION LOADING ON DOME AND STRUCTURE PRIOR TO CONCRETE COLLAR INSTALLATION.

DRAWN BY	NMH	MATERIAL	
DATE	7-5-17		
APPD BY	NMH	PROJECT NO./NAME	
DATE	7-5-17		
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1	

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 48" HP MANHOLE INSTALLATION DETAIL

DWG NO. 7009-110-027 REV A

20 C–701 48" HP MANHOLE
SCALE: NTS

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	TIM SNELL 509-993-0813 TIM.SNELL@ADS-PIPE.COM
ADS SALES REP:	BRANDON KIZER 425-229-5420 BRANDON.KIZER@ADS-PIPE.COM
PROJECT NO:	S114377

ADS® ADVANCED DRAINAGE SYSTEMS, INC.

SiteASSIST by StormTech — FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

SPOKANE TRANSIT AUTHORITY

SPOKANE - WA

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (+1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

NOTE:
1. SEE SHEET C-904, DETAIL 22, FOR ADDITIONAL DESIGN INFORMATION/REQUIREMENTS

21 C–701 STORMTECH SPECIFICATIONS
SCALE: NTS

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Coeur d'Alene, Idaho 83815
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alscarchitects.com

THOMAS L. ARNOLD — STATE OF WASHINGTON — 22067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

DETAIL SHEET

SCC TRANSIT CENTER
1810 N. GREENES STREET
SPOKANE, WA 99217

SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	BLW
CHECKED	CBM
DATE	02/10/2019

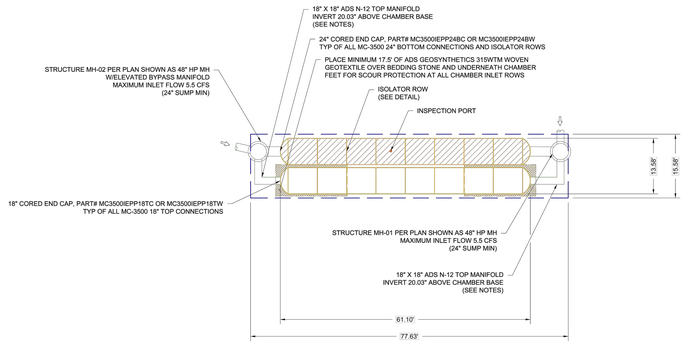
SHEET C-903

PROPOSED LAYOUT	
16	STORMTECH MC-3500 CHAMBERS
4	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
3,783	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
1,210	SYSTEM AREA (ft²)
186	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS	
1915.88	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
1910.38	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
1909.88	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
1909.88	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
1909.88	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
1908.88	TOP OF STONE
1907.88	TOP OF MC-3500 CHAMBER
1905.80	18" TOP MANIFOLD INVERT
1904.30	24" ISOLATOR ROW CONNECTION INVERT
1904.28	18" BOTTOM MANIFOLD INVERT
1904.13	BOTTOM OF MC-3500 CHAMBER
1903.38	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.



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SPOKANE - WA
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PROJECT #: S114377 CHECKED: ALS

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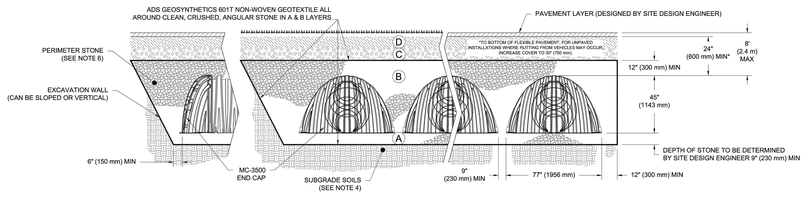
SHEET 2 OF 6

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[4] A-1, A-2-4, A-3 OR AASHTO M43[4] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[3] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[3] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

1. MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
5. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

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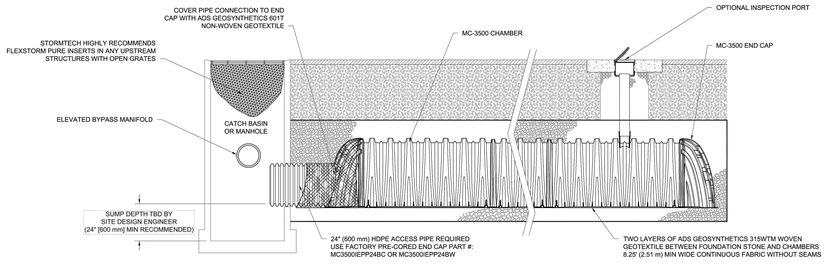
SHEET 3 OF 6



MC-3500 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

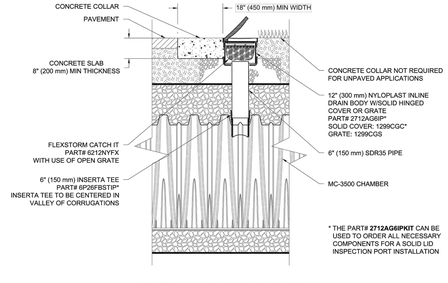
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



* THE PART# **2712AG6IPKIT** CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

MC-3500 6" INSPECTION PORT DETAIL
NTS

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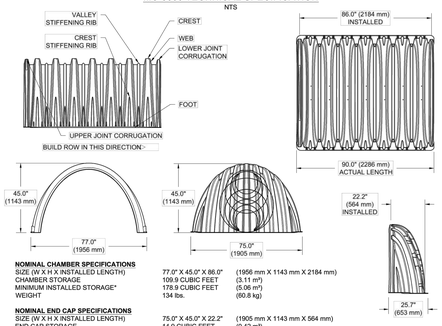
SHEET 4 OF 6

MC-3500 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	178.9 CUBIC FEET	(5.06 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	46.0 CUBIC FEET	(1.30 m³)
WEIGHT	49 lbs.	(22.2 kg)

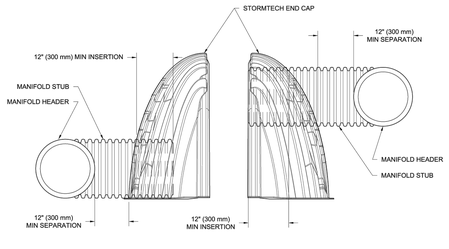
*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

MC-SERIES END CAP INSERTION DETAIL
NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

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SHEET 5 OF 6

22
C-701
STORMTECH INSTALLATION DETAILS
SCALE: NTS

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THOMAS L. ARNOLD — STATE OF WASHINGTON — 22067 — REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: DETAIL SHEET

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

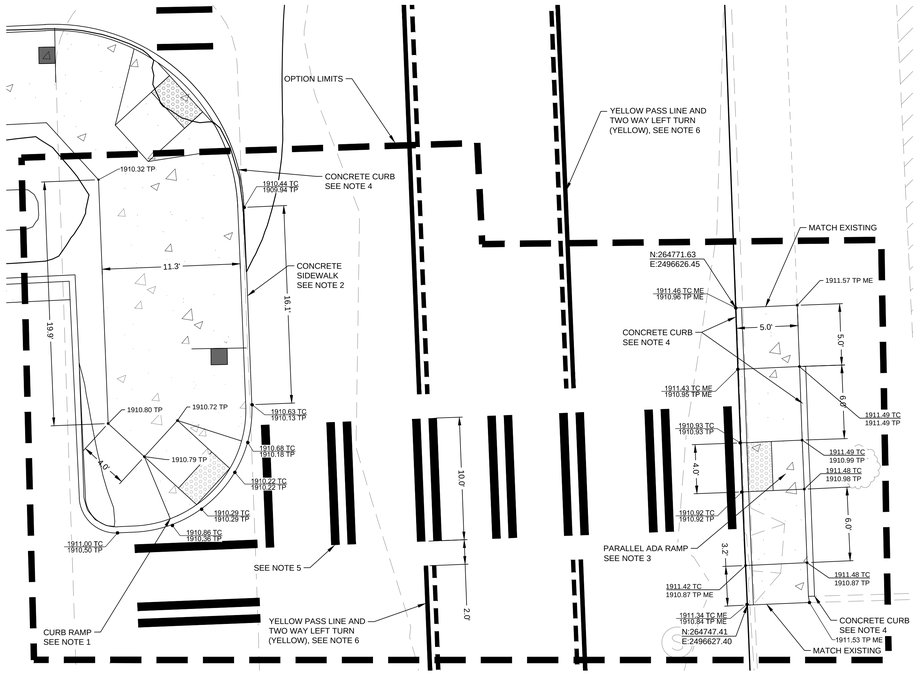
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION: BID SET

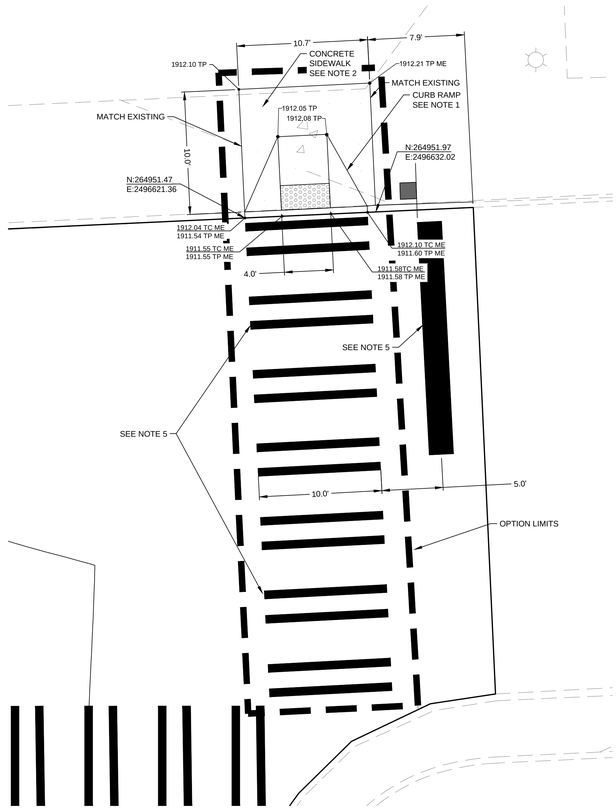
REVISIONS		
No.	Date	By

PROJ. NO. 2018-10258
DRAWN BLW
CHECKED CBM
DATE 02/10/2019

SHEET C-904



OPTION 2

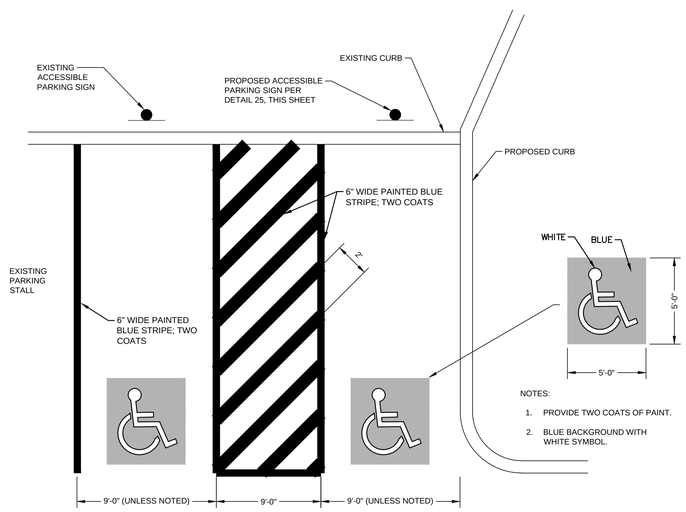


OPTION 3

NOTES

1. CURB RAMP (TYPE1) SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-105.
2. CONCRETE SIDEWALK SHALL CONFORM WITH CITY OF SPOKANE STANDARD PLAN F-102. REFER TO LANDSCAPE PLANS FOR JOINTING LAYOUT. CONTRACTOR SHALL SUBMIT JOINTING LAYOUT FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
3. PARALLEL CURB RAMP SHALL CONFORM WITH WSDOT STANDARD PLAN F-40.12-03.
4. 6" CONCRETE CURB/GUTTER SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-106.
5. CROSSWALK/STOP LINE PAVEMENT MARKINGS SHALL BE PAINTED WHITE AND COMPLY WITH CITY OF SPOKANE STANDARD PLAN B-51.
6. ROAD STRIPING SHALL COMPLY WITH CITY OF SPOKANE STANDARD PLAN G-50A.
7. INFORMATION NOT SHOWN ON DETAILS DID NOT CHANGE AND CAN BE FOUND ON SITE, STRIPING AND SIGNAGE, AND GRADING PLANS.

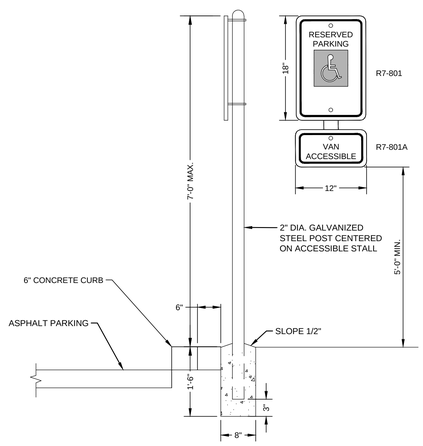
23 / C-403 OPTIONS 2 AND 3
SCALE: 1" = 5'



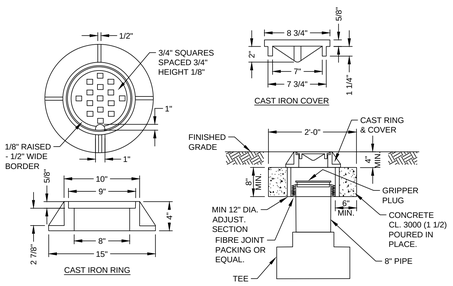
24 / C–502 ACCESSIBLE PARKING
SCALE: NTS

NOTES:

1. PROVIDE TWO COATS OF PAINT.
2. BLUE BACKGROUND WITH WHITE SYMBOL.



25 / C–502 ACCESSIBLE PARKING SIGN
SCALE: NTS



26 / C–502 SEWER CLEANOUT
SCALE: NTS

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STAMP
THOMAS L. ARNOLD
STATE OF WASHINGTON
21645
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE: DETAIL SHEET

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

REVISIONS

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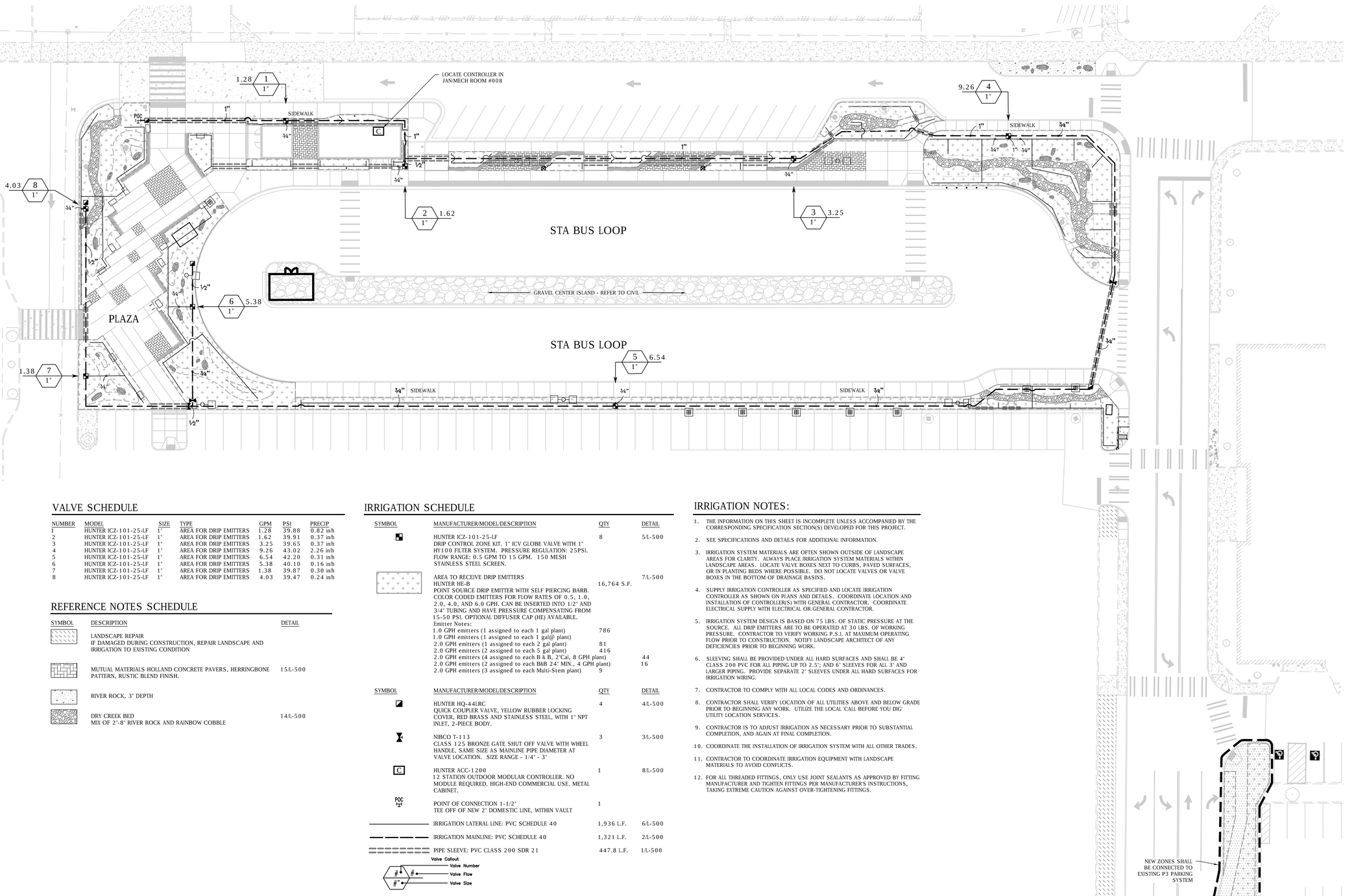
SHEET C-905



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PRECIP
1	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	1.28	39.88	0.82 in/h
2	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	1.62	39.91	0.37 in/h
3	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	3.25	39.65	0.37 in/h
4	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	9.26	43.02	2.26 in/h
5	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	6.54	42.20	0.31 in/h
6	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	5.38	40.10	0.16 in/h
7	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	1.38	39.87	0.30 in/h
8	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	4.03	39.47	0.24 in/h

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
	LANDSCAPE REPAIR IF DAMAGED DURING CONSTRUCTION, REPAIR LANDSCAPE AND IRRIGATION TO EXISTING CONDITION	
	MUTUAL MATERIALS HOLLAND CONCRETE PAVERS, HERRINGBONE PATTERN, RUSTIC BLEND FINISH.	15/L-500
	RIVER ROCK, 3" DEPTH	
	DRY CREEK BED MIX OF 2"-8" RIVER ROCK AND RAINBOW COBBLE	14/L-500

IRRIGATION SCHEDULE

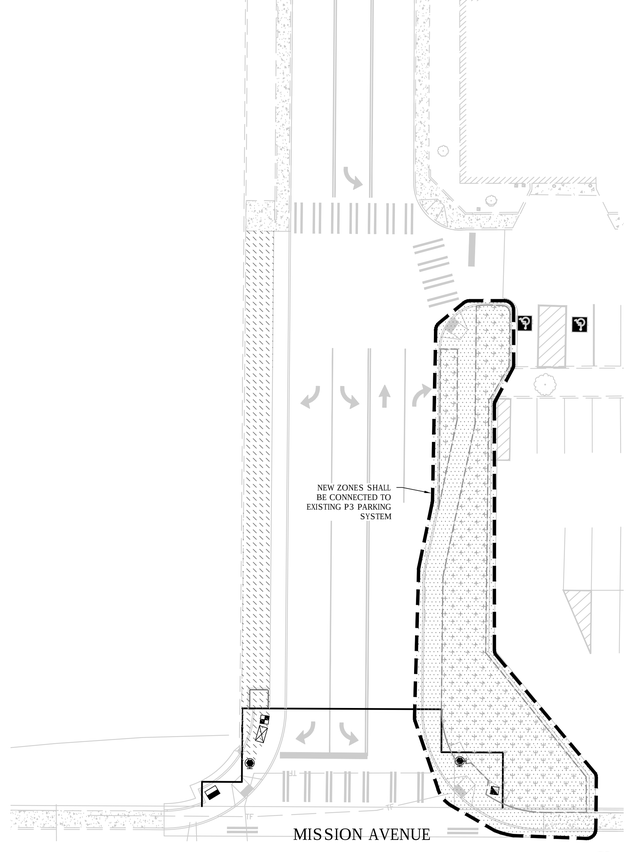
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	HUNTER ICZ-101-25-LF DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: 0.5 GPM TO 15 GPM. 150 MESH STAINLESS STEEL SCREEN.	8	5/L-500
	AREA TO RECEIVE DRIP EMITTERS HUNTER HE-B POINT SOURCE DRIP EMITTER WITH SELF PIERCING BARB. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5, 1.0, 2.0, 4.0, AND 6.0 GPH. CAN BE INSERTED INTO 1/2" AND 3/4" TUBING AND HAVE PRESSURE COMPENSATING FROM 15-50 PSI. OPTIONAL DIFFUSER CAP (HE) AVAILABLE.	16,764 S.F.	7/L-500
	Emitter Notes: 1.0 GPH emitters (1 assigned to each 1 gal plant) 1.0 GPH emitters (1 assigned to each 1 gal@ plant) 2.0 GPH emitters (1 assigned to each 2 gal plant) 2.0 GPH emitters (2 assigned to each 5 gal plant) 2.0 GPH emitters (4 assigned to each B & B, 2'Cal, 8 GPH plant) 2.0 GPH emitters (2 assigned to each B&B 24" MIN., 4 GPH plant) 2.0 GPH emitters (3 assigned to each Multi-Stem plant)	786 81 416 44 16 9	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	HUNTER HQ-44LRC QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1" NPT INLET, 2-PIECE BODY.	4	4/L-500
	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	3	3/L-500
C	HUNTER ACC-1200 12 STATION OUTDOOR MODULAR CONTROLLER. NO MODULE REQUIRED. HIGH-END COMMERCIAL USE. METAL CABINET.	1	8/L-500
POC	POINT OF CONNECTION 1-1/2" TEE OFF OF NEW 2" DOMESTIC LINE, WITHIN VAULT	1	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	1,936 L.F.	6/L-500
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,321 L.F.	2/L-500
	PIPE SLEEVE: PVC CLASS 200 SDR 21	447.8 L.F.	1/L-500

Valve Callout
Valve Number
Valve Flow
Valve Size

IRRIGATION NOTES:

1. THE INFORMATION ON THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE CORRESPONDING SPECIFICATION SECTION(S) DEVELOPED FOR THIS PROJECT.
2. SEE SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
3. IRRIGATION SYSTEM MATERIALS ARE OFTEN SHOWN OUTSIDE OF LANDSCAPE AREAS FOR CLARITY. ALWAYS PLACE IRRIGATION SYSTEM MATERIALS WITHIN LANDSCAPE AREAS. LOCATE VALVE BOXES NEXT TO CURBS, PAVED SURFACES, OR IN PLANTING BEDS WHERE POSSIBLE. DO NOT LOCATE VALVES OR VALVE BOXES IN THE BOTTOM OF DRAINAGE BASINS.
4. SUPPLY IRRIGATION CONTROLLER AS SPECIFIED AND LOCATE IRRIGATION CONTROLLER AS SHOWN ON PLANS AND DETAILS. COORDINATE LOCATION AND INSTALLATION OF CONTROLLER(S) WITH GENERAL CONTRACTOR. COORDINATE ELECTRICAL SUPPLY WITH ELECTRICAL OR GENERAL CONTRACTOR.
5. IRRIGATION SYSTEM DESIGN IS BASED ON 75 LBS. OF STATIC PRESSURE AT THE SOURCE. ALL DRIP EMITTERS ARE TO BE OPERATED AT 30 LBS. OF WORKING PRESSURE. CONTRACTOR TO VERIFY WORKING P.S.I. AT MAXIMUM OPERATING FLOW PRIOR TO CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OF ANY DEFICIENCIES PRIOR TO BEGINNING WORK.
6. SLEEVING SHALL BE PROVIDED UNDER ALL HARD SURFACES AND SHALL BE 4" CLASS 200 PVC FOR ALL PIPING UP TO 2.5"; AND 6" SLEEVES FOR ALL 3" AND LARGER PIPING. PROVIDE SEPARATE 2" SLEEVES UNDER ALL HARD SURFACES FOR IRRIGATION WIRING.
7. CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
8. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES ABOVE AND BELOW GRADE PRIOR TO BEGINNING ANY WORK. UTILIZE THE LOCAL 'CALL BEFORE YOU DIG' UTILITY LOCATION SERVICES.
9. CONTRACTOR IS TO ADJUST IRRIGATION AS NECESSARY PRIOR TO SUBSTANTIAL COMPLETION, AND AGAIN AT FINAL COMPLETION.
10. COORDINATE THE INSTALLATION OF IRRIGATION SYSTEM WITH ALL OTHER TRADES.
11. CONTRACTOR TO COORDINATE IRRIGATION EQUIPMENT WITH LANDSCAPE MATERIALS TO AVOID CONFLICTS.
12. FOR ALL THREADED FITTINGS, ONLY USE JOINT SEALANTS AS APPROVED BY FITTING MANUFACTURER AND TIGHTEN FITTINGS PER MANUFACTURER'S INSTRUCTIONS, TAKING EXTREME CAUTION AGAINST OVER-TIGHTENING FITTINGS.



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STATE OF WASHINGTON · LAURAL THOMPSON · LANDSCAPE ARCHITECT · No. 1398 EXP. 06/10/2019

STAMP

IRRIGATION PLAN - OVERALL

SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA 99217

SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

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REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
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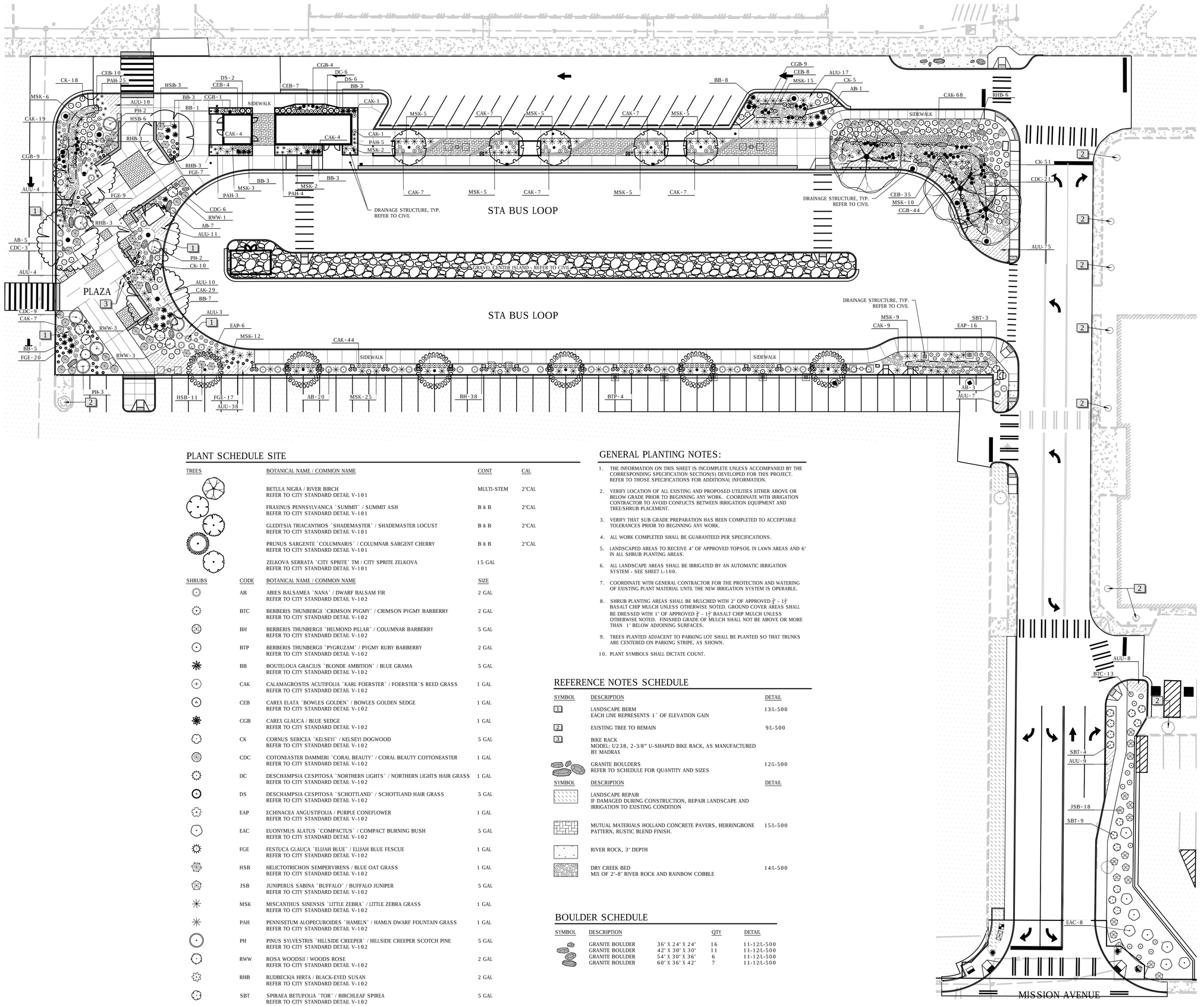
DATE 02/10/2019

L-100

SHEET



PLANT SCHEDULE SITE

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL
	BETULA NIGRA / RIVER BIRCH REFER TO CITY STANDARD DETAIL V-101	MULTI-STEM	2"CAL
	FRAXINUS PENNSYLVANICA `SUMMIT` / SUMMIT ASH REFER TO CITY STANDARD DETAIL V-101	B & B	2"CAL
	GLEDITSIA TRIACANTHOS `SHADEMASTER` / SHADEMASTER LOCUST REFER TO CITY STANDARD DETAIL V-101	B & B	2"CAL
	PRUNUS SARGENTII `COLUMNARIS` / COLUMNAR SARGENT CHERRY REFER TO CITY STANDARD DETAIL V-101	B & B	2"CAL
	ZELKOVA SERRATA `CITY SPRITE` TM / CITY SPRITE ZELKOVA REFER TO CITY STANDARD DETAIL V-101	15 GAL	

SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	SIZE
	AB	ABIES BALSAMEA `NANA` / DWARF BALSAM FIR REFER TO CITY STANDARD DETAIL V-102	2 GAL
	BTC	BERBERIS THUNBERGII `CRIMSON PYGMY` / CRIMSON PYGMY BARBERRY REFER TO CITY STANDARD DETAIL V-102	2 GAL
	BH	BERBERIS THUNBERGII `HELMOND PILLAR` / COLUMNAR BARBERRY REFER TO CITY STANDARD DETAIL V-102	5 GAL
	BTP	BERBERIS THUNBERGII `PYGRUZAM` / PYGMY RUBY BARBERRY REFER TO CITY STANDARD DETAIL V-102	2 GAL
	BB	BOUTELOUA GRACILIS `BLONDE AMBITION` / BLUE GRAMA REFER TO CITY STANDARD DETAIL V-102	5 GAL
	CAK	CALAMAGROSTIS ACUTIFOLIA `KARL FOERSTER` / FOERSTER`S REED GRASS REFER TO CITY STANDARD DETAIL V-102	1 GAL
	CEB	CAREX ELATA `BOWLES GOLDEN` / BOWLES GOLDEN SEDGE REFER TO CITY STANDARD DETAIL V-102	1 GAL
	CGB	CAREX GLAUCA / BLUE SEDGE REFER TO CITY STANDARD DETAIL V-102	1 GAL
	CK	CORNUS SERICEA `KELSEYI` / KELSEYI DOGWOOD REFER TO CITY STANDARD DETAIL V-102	5 GAL
	CDC	COTONEASTER DAMMERI `CORAL BEAUTY` / CORAL BEAUTY COTTONEASTER REFER TO CITY STANDARD DETAIL V-102	1 GAL
	DC	DESCHAMPSIA CESPITOSA `NORTHERN LIGHTS` / NORTHERN LIGHTS HAIR GRASS REFER TO CITY STANDARD DETAIL V-102	1 GAL
	DS	DESCHAMPSIA CESPITOSA `SCHOTTLAND` / SCHOTTLAND HAIR GRASS REFER TO CITY STANDARD DETAIL V-102	5 GAL
	EAP	ECHINACEA ANGUSTIFOLIA / PURPLE CONEFLOWER REFER TO CITY STANDARD DETAIL V-102	1 GAL
	EAC	EUONYMUS ALATUS `COMPACTUS` / COMPACT BURNING BUSH REFER TO CITY STANDARD DETAIL V-102	5 GAL
	FGE	FESTUCA GLAUCA `ELIJAH BLUE` / ELIJAH BLUE FESCUE REFER TO CITY STANDARD DETAIL V-102	1 GAL
	HSB	HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS REFER TO CITY STANDARD DETAIL V-102	1 GAL
	JSB	JUNIPERUS SABINA `BUFFALO` / BUFFALO JUNIPER REFER TO CITY STANDARD DETAIL V-102	5 GAL
	MSK	MISCANTHUS SINENSIS `LITTLE ZEBRA` / LITTLE ZEBRA GRASS REFER TO CITY STANDARD DETAIL V-102	1 GAL
	PAH	PENNISETUM ALOPECUROIDES `HAMELN` / HAMLN DWARF FOUNTAIN GRASS REFER TO CITY STANDARD DETAIL V-102	1 GAL
	PH	PINUS SYLVESTRIS `HILLSIDE CREEPER` / HILLSIDE CREEPER SCOTCH PINE REFER TO CITY STANDARD DETAIL V-102	5 GAL
	RWW	ROSA WOODSII / WOODS ROSE REFER TO CITY STANDARD DETAIL V-102	2 GAL
	RHB	RUDBECKIA HIRTA / BLACK-EYED SUSAN REFER TO CITY STANDARD DETAIL V-102	2 GAL
	SBT	SPIRAEA BETUFOLIA `TOR` / BIRCHLEAF SPIREA REFER TO CITY STANDARD DETAIL V-102	5 GAL

GROUND COVERS	CODE	BOTANICAL NAME / COMMON NAME	CONT	SPACING	DETAIL
	AUU	ARCTOSTAPHYLOS UVA-URSI / KINNICKINNIK	1 GAL	36" o.c.	10/L-500

GENERAL PLANTING NOTES:

1. THE INFORMATION ON THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE CORRESPONDING SPECIFICATION SECTION(S) DEVELOPED FOR THIS PROJECT. REFER TO THOSE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. VERIFY LOCATION OF ALL EXISTING AND PROPOSED UTILITIES EITHER ABOVE OR BELOW GRADE PRIOR TO BEGINNING ANY WORK. COORDINATE WITH IRRIGATION CONTRACTOR TO AVOID CONFLICTS BETWEEN IRRIGATION EQUIPMENT AND TREE/SHRUB PLACEMENT.
3. VERIFY THAT SUB GRADE PREPARATION HAS BEEN COMPLETED TO ACCEPTABLE TOLERANCES PRIOR TO BEGINNING ANY WORK.
4. ALL WORK COMPLETED SHALL BE GUARANTEED PER SPECIFICATIONS.
5. LANDSCAPED AREAS TO RECEIVE 4" OF APPROVED TOPSOIL IN LAWN AREAS AND 6" IN ALL SHRUB PLANTING AREAS.
6. ALL LANDSCAPE AREAS SHALL BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM - SEE SHEET L-100.
7. COORDINATE WITH GENERAL CONTRACTOR FOR THE PROTECTION AND WATERING OF EXISTING PLANT MATERIAL UNTIL THE NEW IRRIGATION SYSTEM IS OPERABLE.
8. SHRUB PLANTING AREAS SHALL BE MULCHED WITH 2" OF APPROVED $\frac{3}{8}$" - 1$\frac{1}{2}$" BASALT CHIP MULCH UNLESS OTHERWISE NOTED. GROUND COVER AREAS SHALL BE DRESSED WITH 1" OF APPROVED $\frac{3}{8}$" - 1$\frac{1}{2}$" BASALT CHIP MULCH UNLESS OTHERWISE NOTED. FINISHED GRADE OF MULCH SHALL NOT BE ABOVE OR MORE THAN 1" BELOW ADJOINING SURFACES.
9. TREES PLANTED ADJACENT TO PARKING LOT SHALL BE PLANTED SO THAT TRUNKS ARE CENTERED ON PARKING STRIPE, AS SHOWN.
10. PLANT SYMBOLS SHALL DICTATE COUNT.

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	LANDSCAPE BERM EACH LINE REPRESENTS 1` OF ELEVATION GAIN	13/L-500
2	EXISTING TREE TO REMAIN	9/L-500
3	BIKE RACK MODEL: U238, 2-3/8" U-SHAPED BIKE RACK, AS MANUFACTURED BY MADRAX	
	GRANITE BOULDERS REFER TO SCHEDULE FOR QUANTITY AND SIZES	12/L-500

SYMBOL	DESCRIPTION	DETAIL
	LANDSCAPE REPAIR IF DAMAGED DURING CONSTRUCTION, REPAIR LANDSCAPE AND IRRIGATION TO EXISTING CONDITION	
	MUTUAL MATERIALS HOLLAND CONCRETE PAVERS, HERRINGBONE PATTERN, RUSTIC BLEND FINISH.	15/L-500
	RIVER ROCK, 3" DEPTH	
	DRY CREEK BED MIX OF 2"-8" RIVER ROCK AND RAINBOW COBBLE	14/L-500

BOULDER SCHEDULE

SYMBOL	DESCRIPTION		QTY	DETAIL
	GRANITE BOULDER	36" X 24" X 24"	16	11-12/L-500
	GRANITE BOULDER	42" X 30" X 30"	11	11-12/L-500
	GRANITE BOULDER	54" X 30" X 36"	6	11-12/L-500
	GRANITE BOULDER	60" X 36" X 42"	7	11-12/L-500

0 20 40 60 feet
1" = 20'
NORTH

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STATE OF WASHINGTON
LAURAL THOMPSON
NO. 13888 EXP. 06/10/2019
LANDSCAPE ARCHITECT
STAMP

LANDSCAPE PLAN - OVERALL

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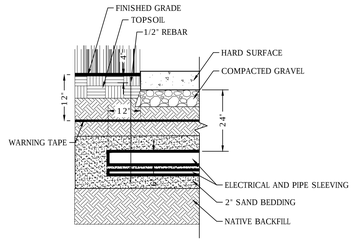
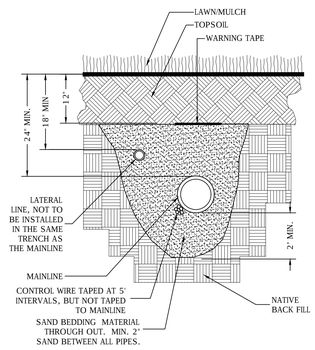


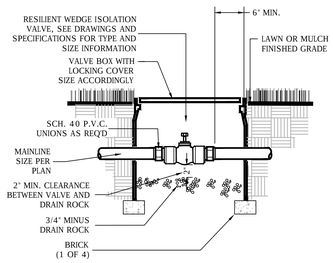
NOTES:
1. SLEEVE UNDER WALKS SHALL MATCH PROPOSED MAINLINE AND LATERAL DEPTHS.

2. INSTALL 1/2" REBAR ADJACENT TO SLEEVING FOR SLEEVE DETECTION.

1 TYPICAL IRRIGATION SLEEVING — SPVV
NTS



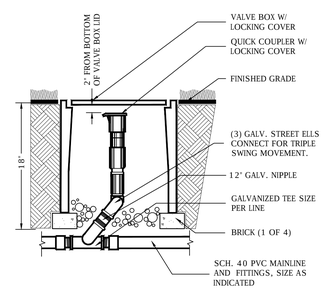
2 IRRIGATION MAINLINE TRENCH — SPVV
NTS



NOTES:
1. REFER TO IRRIGATION SHEET FOR LOCATIONS

2. REFER TO SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS.

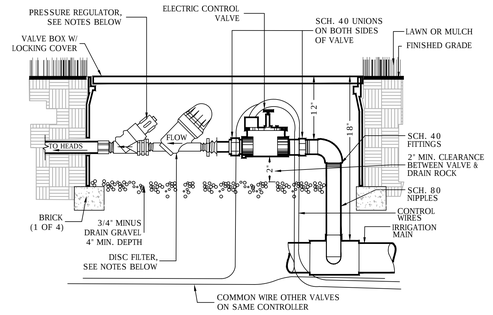
3 ISOLATION VALVE — SPVV
NTS



NOTES:
1. INSTALL 4" OF DRAINAGE ROCK IN THE BOTTOM OF QUICK COUPLER BOXES.

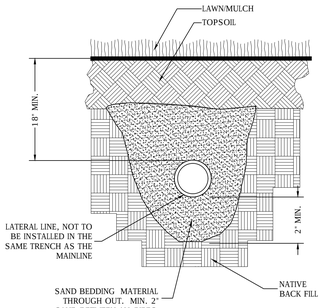
2. INSTALL LOCKING COVER ON QUICK COUPLER VALVE.

4 QUICK COUPLING VALVE IN BOX — SPVV
NTS

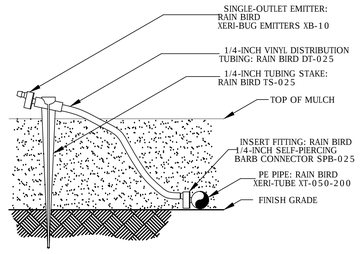


NOTES:
1. TYPICAL ELECTRIC CONTROL VALVE VERIFY WITH VALVE SCHEDULE FOR SIZE, PRESSURE REGULATION AND TYPE.
2. PRESSURE REGULATOR AND DISC FILTER SIZES VARY BY CONTROL ZONE. SEE SPECIFICATIONS AND MANUFACTURER'S DESIGN GUIDELINES FOR MORE INFORMATION.

5 LOW VOLUME LOW FLOW CONTROL VALVE — SPVV
NTS

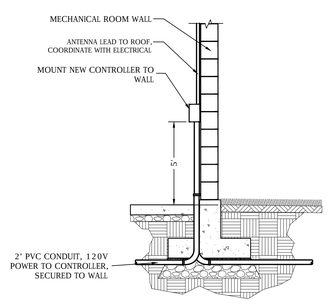


6 IRRIGATION LATERAL TRENCH — SPVV
NTS



NOTE:
1. USE RAIN BIRD BUG GUN MODEL EMA-BG TO INSERT BARB CONNECTOR DIRECTLY INTO XERI-TUBE.

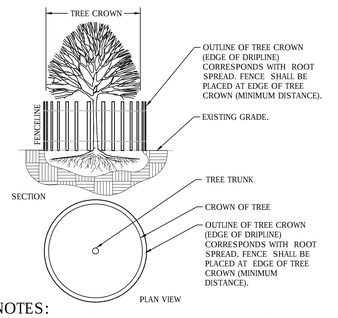
7 EMITTER INTO XERI-TUBE — SPVV
NTS



NOTES:
1. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

2. CONTROLLER TO BE HARDWIRED INTO SEPARATE JUNCTION BOX PROVIDED BY ELECTRICAL CONTRACTOR

8 INTERIOR WALL MOUNT CONTROLLER — SPVV
NTS

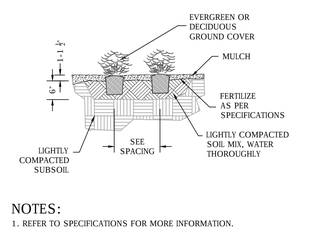


NOTES:
1. MAINTAIN PROTECTION UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETED.

2. IF LOWER LIMBS INTERFERE W/ WORK, TIE UP W/ HEAVY JUTE CORD.

3. ADJUST DIAMETER OF PROTECTIVE FENCE TO PREVENT ANTICIPATED DAMAGE BY EQUIPMENT.

9 TREE PROTECTION — SPVV
NTS



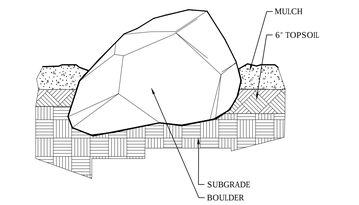
NOTES:
1. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

2. FERTILIZE W/ ORGANIC FERTILIZER PRIOR TO PLACING MULCH MATERIAL.

3. EDGING SHALL BE INSTALLED TO CREATE SMOOTH TRANSITIONS BETWEEN GRADE CHANGES.

4. PRIOR TO PLACEMENT REMOVE ALL NON ORGANIC WRAPPING AND BINDING MATERIALS.

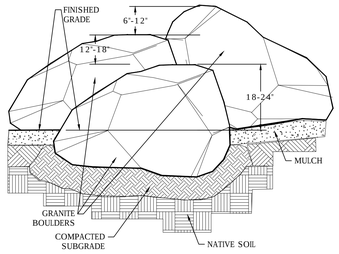
10 GROUND COVER PLANTING — SPVV
NTS



NOTES:
1. INSTALL BOULDERS RANGING IN SIZE AS INDICATED ON PLAN.

2. BOULDERS TO BE BURIED TO 1/3 OF THEIR DEPTH.

11 BOULDER IN LANDSCAPE BED — SPVV
NTS



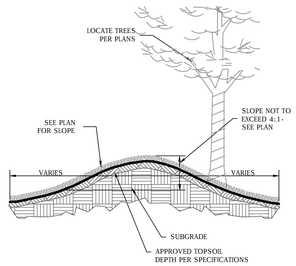
NOTES:
1. INSTALL GRANITE BOULDERS RANGING IN SIZE FROM 2' WIDE X 2' WIDE X 2' DEEP TO 3-1/2' WIDE X 3-1/2' WIDE X 3-1/2' DEEP.

2. BOULDERS TO BE BURIED TO MAX. 1/3 OF THEIR DEPTH.

3. REFER TO PLANS FOR INFORMATION AND LAYOUT.

4. VARY ELEVATION DIFFERENCES BETWEEN HEIGHTS OF BOULDERS DURING PLACEMENT. CONFIRM FINAL ORIENTATION W/ ARCHITECT PRIOR TO FINAL BURIAL AND PLANT PLACEMENT.

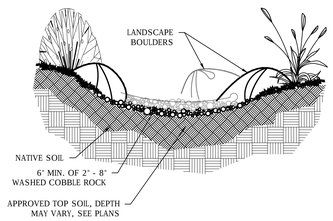
12 GRANITE BOULDER - GROUP — SPVV
NTS



NOTES:
1. PROVIDE SMOOTH GRADE TRANSITIONS.

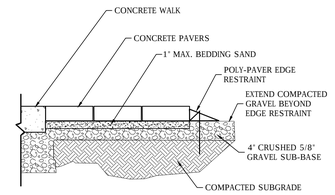
2. REFER TO LANDSCAPE PLAN FOR PLANTING INFORMATION AND BERM LOCATIONS.

13 LANDSCAPE BERM — SPVV
NTS



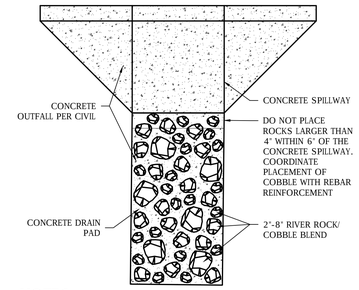
NOTES:
1. BOULDERS TO BE BURIED TO 1/3 OF THEIR DEPTH.
2. PROVIDE VARYING SIZES OF RIVER ROCK AND COBBLES, AS SHOWN IN TOP RIGHT IMAGE.
3. PROVIDE SUFFICIENT SOIL TO SUPPORT PLANTINGS IN PLANTING POCKETS.
4. PROVIDE 2" OF APPROVED MULCH AROUND NEW PLANTINGS. SEE PLANTING PLAN FOR MULCH TYPE.

14 DRY CREEK BED — SPVV
NTS



NOTES:
1. PAVERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
2. COMPACT SUBGRADE TO 95% PROCTOR PRIOR TO INSTALLING CRUSHED GRAVEL SUB-BASE.
3. CLEAN AND REMOVE ALL LOOSE DEBRIS AND STAINS PRIOR TO SEALING WITH APPROVED SEALER.
4. SAW-CUT CONCRETE PAVERS AS REQUIRED. PROVIDE PROPER DUST CONTAINMENT TO PREVENT STAINING OF OTHER TRADES. CLEAN AREA THOROUGHLY PRIOR TO COMPLETION.
5. PROTECT ADJACENT FINISHED SURFACES DURING PAVER INSTALLATION.

15 CONCRETE PAVER — SPVV
NTS



NOTES:
1. REFER TO OUTFALL SECTION FOR PROFILE.
2. ROCK SHALL BE CLEAN WASHED RIVER ROCK, RANGING IN SIZE FROM 2" TO 8" DIAMETER.
3. USE CARE SO AS NOT TO STAIN RIVER ROCK AND COBBLE WITH CONCRETE.
4. CONCRETE SHALL BE RATED AT 3000 LBS. AT 28 DAYS.

16 ROCK-EMBEDDED CONCRETE OUTFALL — SPVV
NTS

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STATE OF WASHINGTON · LAURAL THOMPSON · No. 13288 EXP. 06/10/2019 · LANDSCAPE ARCHITECT

STAMP

SHEET TITLE: LANDSCAPE AND IRRIGATION DETAILS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N GREENS STREET
SPOKANE, WA 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN LLT
CHECKED TCS
DATE 02/10/2019

SHEET L-500

GENERAL STRUCTURAL NOTES

GENERAL:

THE STRUCTURAL CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE STRUCTURE IS DESIGNED TO BE A STABLE UNIT AS A COMPLETED WHOLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN, ERECT AND INSPECT TEMPORARY SHORES, BRACES, ETC. TO SUPPORT THE STRUCTURE AGAINST ALL ANTICIPATED LOADS INCLUDING GRAVITY, WIND AND LATERAL EARTH PRESSURE UNTIL ITS COMPLETION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THESE METHODS OF CONSTRUCTION. CONSTRUCTION MATERIAL SHALL BE PLACED ON FRAMED ROOFS SUCH THAT THE DESIGN LIVE LOADS ARE NOT EXCEEDED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ENGINEER.

WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE AND TESTING STANDARDS.

NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. "TYPICAL" DETAILS ARE NOT FLAGGED ON THE DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.

ALL STRUCTURAL ENGINEERING DESIGN PROVIDED BY OTHERS SHALL BE SUBMITTED FOR REVIEW AND SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

COORDINATION:

ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DRAWINGS AND SPECIFICATIONS AMONG THE SUBCONTRACTORS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES THAT ARE FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ENGINEER.

COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND WEIGHT OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT AS WELL AS THE SIZE AND LOCATION OF ALL MECHANICAL OPENINGS IN ROOFS AND WALLS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, DO NOT PENETRATE ANY STRUCTURAL ELEMENTS SUCH AS BEAMS, COLUMNS, WALLS, SLABS, ETC. WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.

SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO ENGINEERING REVIEW.

SPECIAL INSPECTIONS:

THE OWNER WILL EMPLOY AN ICC CERTIFIED SPECIAL INSPECTOR TO PROVIDE INSPECTIONS. REFER TO S-002 FOR REQUIRED SPECIAL INSPECTIONS.

CODE:

2015 EDITION OF THE INTERNATIONAL BUILDING CODE.

DESIGN LOADS:

ROOF DEAD LOAD ..... 15 PSF
ROOF SNOW LOAD ..... SEE SNOW LOADS BELOW

RISK CATEGORY II

WIND:

WIND SPEED ..... 110 MPH
EXPOSURE CATEGORY ..... "B"
INTERNAL PRESSURE COEFFICIENT (GCpi ..... +/- 0.18
COMPONENT AND CLADDING WIND PRESSURE (ALL PRESSURES ARE STRENGTH LEVEL. PRESSURES ARE INDICATED AS SUCTION OR UPLIFT.)

Ae = 10 SF
ZONE 1 ..... 22 PSF
ZONE 2 ..... 37 PSF
ZONE 3 ..... 55 PSF
ZONE 4 ..... 24 PSF
ZONE 5 ..... 29 PSF
Ae = 100 SF
ZONE 1 ..... 20 PSF
OVERHANGS, Ae = 100 SF
ZONE 2 ..... 32 PSF
ZONE 3 ..... 52 PSF

SEISMIC:

IMPORTANCE FACTOR (Ie) 1.0
Sds 0.342
Sd1 ..... 0.179
Ss 0.335
S1 ..... 0.115
SEISMIC DESIGN CATEGORY C
SITE CLASS ..... D
DESIGN BASE SHEAR ..... 4.6 K (STRENGTH LEVEL)
ANALYSIS PROCEDURE ..... EQUIVALENT LATERAL FORCE

SEISMIC FORCE RESISTING SYSTEM:

LIGHT FRAMED (WOOD) WALLS SHEATHED W/ WOOD STRUCT. PANELS RATED FOR SHEAR RESISTANC - R = 6.5

SNOW:

GROUND SNOW LOAD ..... 39 PSF
FLAT ROOF SNOW LOAD ..... 30 PSF
SNOW EXPOSURE FACTOR 1.0
SNOW LOAD IMPORTANCE FACTOR (Is) 1.0
THERMAL FACTOR 1.0

REAL TIME SIGN LOADS:

SIGN DEAD LOAD ..... 100#
MOUNTING BRACKET DEAD LOAD ..... 50#
LIVE LOAD ..... 300# VERTICAL LOAD APPLIED AT END OF SIGN
WIND ..... 23 PSF (STRENGTH)

FOUNDATION:

ALLOWABLE SOIL BEARING PRESSURE = 4,000 PSF PER GEOTECHNICAL REPORT BY BUDINGER & ASSOCIATES DATED 5/10/2018. BEAR ALL FOOTINGS ON INORGANIC, UNDISTURBED SOIL OR ON CONTROLLED, COMPACTED FILL. MINIMUM FOOTING DEPTH SHALL BE 2'-0" FOR EXTERIOR FOOTING BELOW FINISH GRADE.

DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS REACHED FULL DESIGN STRENGTH. WALLS BELOW GRADE SHALL BE BRACED AS REQUIRED TO RESIST LATERAL EARTH PRESSURE UNTIL CONNECTING FLOORS OR ROOFS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. THE CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.

AT-REST LATERAL EARTH PRESSURE ..... 53 PCF
ACTIVE LATERAL EARTH PRESSURE ..... 34 PCF
PASSIVE LATERAL EARTH PRESSURE ..... 424 PCF
COEFFICIENT OF FRICTION 0.42

CONCRETE:

CONCRETE CONSTRUCTION SHALL CONFORM WITH THE LATEST EDITION OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". SUBMIT MIX DESIGNS FOR EACH CLASS OF CONCRETE. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE.

CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT. ADDITION OF WATER TO A MIX WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED, EXCEPT AS ALLOWED PER ASTM C494.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, ETC. CAST CLOSURE POUR AROUND COLUMNS AFTER DEAD LOAD IS APPLIED.

ITEM	MINIMUM CEMENT CONTENT (SACKS/CY)	28 DAY STRENGTH F'c (PSI)	MAX. SIZE AGGREGATE	AIR ENTR.	MAX. SLUMP
FOOTINGS AND FDN. WALLS	5	3000	1 1/2"	5-7%	3"
INTERIOR SLAB ON GRADE	5 1/2	4000	1"	2%	4"
RETAINING WALLS	5 1/2	4500	1"	5-7%	4"

REINFORCING STEEL:

DEFORMED BARS: ASTM A615 GRADE 40 FOR #3 AND GRADE 60 FOR #4 AND LARGER.

CLEAR CONCRETE COVERAGE (APPLIES UNLESS NOTED OTHERWISE):

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER ..... 2"
FORMED CONCRETE NOT EXPOSED TO EARTH OR WEATHER ..... 1 1/2"
FROM TOP SURFACE OF SLAB ON GRADE ..... 1 1/2"

WELDING:

WELDING OF REINFORCING STEEL IS PROHIBITED. LAP SPLICES IN CONCRETE: UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, SLABS AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH.

PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS. SPACING SHOWN FOR REINFORCING BARS ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. SECURELY TIE ALL BARS IN POSITION PRIOR TO PLACING CONCRETE.

STRUCTURAL STEEL:

ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES,
ALL PLATES, BARS AND RODS ..... ASTM A36, Fy = 36 KSI
TUBULAR STEEL ..... ASTM A500, GRADE B, Fy = 46 KSI
PIPE STEEL ..... ASTM A53, Fy = 35 KSI
BOLTS ..... ASTM F3125
ANCHOR BOLTS ..... ASTM F1554 GRADE 36
EXPANSION BOLTS (CONCRETE) ..... HILTI BOLT - TZ
EPOXY ANCHORS (CONCRETE) ..... HILTI HY-200 + HIT-Z ROD, UNO
HEADED ANCHOR STUDS ..... ASTM A108-69T, Fy = 50 KSI

FABRICATION AND ERECTION:

LATEST AISC AND AWS CODES APPLY. FABRICATE AND ERECT IN ACCORDANCE WITH LATEST EDITION OF AISC "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". SPLICING OF STRUCTURAL MEMBERS IS NOT PERMITTED UNLESS NOTED ON THE DRAWINGS. ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.

WELDING:

ALL WELDING SHALL BE BY CERTIFIED WELDERS HAVING CURRENT EXPERIENCE IN TYPE OF WELD SHOWN ON DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" OR ALTERNATE AWS CODES AS APPLICABLE. ALL STRUCTURAL WELDING PROCESSES SHALL MEET THE H2 LOW HYDROGEN CRITERIA OF AWS D1.1 ANNEX I UNLESS OTHERWISE NOTED. USE 70XX ELECTRODES OR EQUIVALENT WIRE. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS. ALL COMPLETE PENETRATIONS WELDS SHALL BE HEADED STUDS AND THREADED STUDS SHALL BE END WELDED PER MANUFACTURER'S RECOMMENDATIONS.

BOLTS:

ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS. TYPE N BOLTS PER LATEST EDITION OF AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" AND MAY BE TIGHTENED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC UNLESS NOTED OTHERWISE. SIMPSON BOLTS AND ANCHORS MAY BE SUBSTITUTED WITH AN APPROVED ICC RATED PRODUCT.

NAILER ON STEEL BEAMS:

UNLESS OTHERWISE NOTED, ATTACH 2x WOOD NAILER W/ 5/8" WELDED THREADED STUDS @ 16" OC.

WOOD:

GENERAL:

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. PROVIDE 1 X 3 OR METAL CROSS BRIDGING AT MIDSPAN OF ALL JOISTS. DOUBLE UP STUDS AT JAMBS AND UNDER BEAMS IN BEARING WALLS. PROVIDE 2 X SOLID BLOCKING AT MID-HEIGHT OF LOAD BEARING STUD WALLS. ALL NAILS SHALL BE COMMON NAILS. ALL NAILING NOT NOTED SHALL BE IN ACCORDANCE WITH TABLE 2304.10.1 OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE. ALL FRAMING ANCHORS AND CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON COMPANY OR OTHER APPROVED EQUAL WITH ICC CERTIFICATION. ALL NAIL HOLES IN FRAMING ANCHORS AND CONNECTORS SHALL BE FILLED WITH NAILS PER MANUFACTURERS PUBLISHED NAIL SIZES. ALL BOLTS SHALL BE ASTM A307 BOLTS INSTALLED WITH STEEL WASHERS.

WOOD STUD WALLS:

USE 2 X 6 AT 16" O.C. TYPICAL UNLESS NOTED OTHERWISE ON PLANS. WOOD PLATE ANCHORS BOLTS SHALL BE 1/2" DIAMETER PLACED NOT TO EXCEED 4'-0" O.C. UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL BE PLACED AT ALL JAMBS, CORNERS, INTERSECTIONS AND WALL ENDS. ALL BOTTOM PLATES SHALL HAVE A MINIMUM OF 2 ANCHOR BOLTS. ALL FOUNDATION PLATES OR SILLS AND SLEEPERS ON A CONCRETE SLAB, WHICH IS IN DIRECT CONTACT WITH THE EARTH, AND SILLS WHICH REST ON CONCRETE OR MASONRY FOUNDATIONS, SHALL BE PRESSURE TREATED WOOD IN ACCORDANCE WITH AWPB SPECIFICATION NO. LP-22 FOR ABOVE GROUND CONTACT.

PREFABRICATED PRESS PLATE WOOD TRUSSES:

DESIGN, FABRICATE AND ERECT IN ACCORDANCE WITH TRUSS PLATE INSTITUTE STANDARDS. ALL TRUSSES SHALL BE DESIGNED TO SUPPORT THEIR OWN WEIGHT PLUS SUPERIMPOSED DEAD AND LIVE LOADS STATED IN THE GENERAL STRUCTURAL NOTES. TRUSS MANUFACTURER SHALL SUPPLY ADDITIONAL TRUSSES AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW PRIOR TO FABRICATION. PROVIDE DESIGN CALCULATIONS BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS.

LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO THE FOLLOWING RATIOS UNLESS NOTED OTHERWISE: SPAN/360 AT SIMPLE SPAN FLOOR MEMBERS, 2 X SPAN/360 AT CANTILEVERED FLOOR MEMBERS, SPAN/240 AT SIMPLE SPAN ROOF MEMBERS AND 2 X SPAN/240 AT CANTILEVERED ROOF MEMBERS. ALL TRUSSES SHALL BE CAMBERED FOR THE DESIGN DEAD LOAD.

ALL TRUSS MEMBERS SHALL BE FABRICATED USING MANUFACTURER'S STANDARD STRUCTURAL LUMBER. CALCULATIONS AND SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONNECTOR PLATES SHALL HAVE CURRENT ICC APPROVAL AND A MINIMUM PLATE SIZE OF 3" X 5". NO OFF-SETS FOR CONNECTIONS WILL BE PERMITTED. BRIDGING SIZES AND SPACING BY TRUSS MANUFACTURER UNLESS SPECIFIC REQUIREMENTS HAVE BEEN REQUESTED WITHIN THE STRUCTURAL DETAILS.

FRAMING LUMBER:

MEMBER	Fb (PSI) SINGLE	Fv (PSI)	E (PSI)	Fc// (PSI).	SPECIES & GRADE
JOISTS	1000	180	1,700,000	1500	DOUG FIR-LARCH #1
BEAMS 4x MEMBERS	1350	170	1,600,000	925	DOUG FIR-LARCH #1
POSTS 4x MEMBERS	1200	170	1,600,000	1000	DOUG FIR-LARCH #1
STUDS	900	180	1,600,000	1350	DOUG FIR-LARCH #1
LEDGERS & TOP PLATES	900	180	1,600,000	1350	DOUG FIR-LARCH #2

FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTIONS BUREAU. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY. MOISTURE CONTENT SHALL NOT EXCEED 19%.

LAMINATED VENEER LUMBER:

PROVIDE MEMBERS AS MANUFACTURED BY TRUS JOIST CORPORATION OR AN APPROVED SUBSTITUTE WITH A CURRENT ICC APPROVAL. FABRICATE AND ERECT IN ACCORDANCE WITH THE APPLICABLE ICBO REPORT.

MEMBER SIZES ARE SHOWN ON THE DRAWINGS.

MEMBER PROPERTIES:

MEMBER	Fb (PSI)	Fv (PSI)	E (PSI)	Fc// (PSI).
REDLAM LVL BEAMS	2900	285	2,000,000	2635

STRUCTURAL SHEATHING:

STRUCTURAL SHEATHING PROPERTIES AND ATTACHMENT

ITEM	THICKNESS	SPAN/INDEX RATIO	EDGE NAILING	INTERMEDIATE NAILING
SHEAR WALL	15/32"	24/0	SEE SCHEDULE	8d @ 12" OC
ROOF	5/8"	32/16	8d @ 6" OC	8d @ 12" OC

STRUCTURAL SHEATHING INCLUDES ALL-VENEER PLYWOOD:

ALL STRUCTURAL SHEATHING SHALL BE APA RATED SHEATHING WITH AN EXTERIOR OR EXPOSURE 1 DURABILITY CLASSIFICATION AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP FLOOR WITH THE LONG DIMENSION PERPENDICULAR TO SUPPORTS AND PROVIDE PANEL LENGTHS TO BE CONTINUOUS OVER TWO OR MORE SUPPORTS. ALL WEATHER WOOD PLYWOOD SHALL BE BONDED WITH AN EXTERIOR GLUE AND BE GRADE MARKED INDICATING CONFORMANCE WITH THE CURRENT EDITION OF U.S. DEPARTMENT OF COMMERCE PRODUCT STANDARD PS1. CONSTRUCTION AND INDUSTRIAL PLYWOOD, AND STAMPED WITH AN APA GRADE MARKED.

PRESSURE TREATMENT OF LUMBER AND PLYWOOD:

ALL LUMBER TO BE PRESERVATIVE TREATED SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS BUREAU STANDARD AWPB-FON AND BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY PER AWPB-FDN. PLATES AND STUDS WITH ENDS CUT AFTER PRESSURE TREATING AND PLACED BELOW GRADE SHALL HAVE THE ENDS BELOW GRADE BRUSHED, DIPPED OR SOAKED WITH PRESERVATIVE UNTIL THE WOOD ABSORBS NO MORE PRESERVATIVE. USE THE FOLLOWING PRESERVATIVE FOR FIELD TREATMENT:

COPPER NAPHTHENATE CONTAINING A MINIMUM OF 2 PERCENT METALLIC COPPER IN SOLUTION.

ALL WEATHER WOOD FASTENERS:

NAILS: HOT-DIPPED ZINC COATED STEEL NAILS CONFORMING TO THE REQUIREMENTS OF THE CURRENT EDITION OF ASTM A153. SUBMIT TECHNICAL INFORMATION SHOWING COMPLIANCE.

FRAMING ANCHORS:

FRAMING ANCHORS SHALL BE OF ZINC COATED SHEET STEEL (GALVANIZED) BY THE HOT-DIP OR MATTE FINISH PROCESS. THE CORROSION RESISTANT COATING SHALL BE 1.25 OZ. POT YIELD COMMERICAL CLASS HOT-DIPPED ZINC COATING, OR 0.625 OZ. MATTE FINISH HOT-DIPPED ZINC COATING EACH SIDE, AND MAY BE APPLIED TO THE STEEL SHEET BEFORE THE ANCHOR IS STAMPED OUT. NAILS FOR USE WITH FRAMING ANCHORS SHALL CONFORM WITH THE REQUIREMENTS ABOVE.

STEEL JOIST HANGERS SHALL BE TESTED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1711.

DEFFERED SUBMITTALS:

THE FOLLOWING PORTIONS OF THE DESIGN ARE NOT SUBMITTED TO THE BUILDING OFFICIAL AT THE TIME OF PERMIT APPLICATION BUT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION, AFTER ENGINEERING REVIEW. STAMPED AND SEALED DRAWINGS AND CALCULATIONS ARE REQUIRED FOR DEFERRED SUBMITTALS. THE DEFERRED SUBMITTALS FOR THIS PROJECT ARE:

1. PREFABRICATED PRESS PLATE WOOD TRUSS DESIGN DRAWINGS AND CALCULATIONS

NOTE: MANUFACTURER TO VERIFY EAVE LOADING MEETS REQUIREMENTS PER ASCE 7-10 7.4.5

GENERAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
A / B	DETAIL SYMBOL: A = IDENTIFYING NUMBER; B = SHEET WHERE DETAIL IS SHOWN
1 / SIM / A101	SECTION SYMBOL: A = IDENTIFYING LETTER; B = SHEET WHERE SECTION IS SHOWN
	SECTION CUT LINE INDICATOR
	ELEVATION SYMBOL
1	REVISION CLOUD AND REVISION NUMBER
	INDICATES STEP IN ELEVATION
DX	INDICATES DECK SPAN DIRECTION
	INDICATES DRAG CONNECTION
	INDICATES MOMENT CONNECTION
	INDICATES SPLICE CONNECTION
	INDICATES UPWARD SLOPE OF DIAGONAL BRACE

STANDARD STRUCTURAL ABBREVIATIONS

ABBR	DESCRIPTION	ABBR	DESCRIPTION
(A)	ABOVE	L	LENGTH
AB	ANCHOR BOLT	LB	POUND
ACI	AMERICAN CONCRETE INSTITUTE	Ld	REINF DEVELOPMENT LENGTH
ADDL	ADDITIONAL	Ldh	REINF DEVELOPMENT LENGTH (HOOKED BARS)
ADH	ADHESIVE	LL	LIVE LOAD
ADJ	ADJACENT	LLH	LONG LEG HORIZONTAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LLV	LONG LEG VERTICAL
AFF	ABOVE FINISHED FLOOR	LO	LOW
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LOC	LOCATION
AISI	AMERICAN IRON AND STEEL INSTITUTE	Ls	REINF TENSION LAP SPLICE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	LS	LANDSCAPE
ALT	ALTERNATE	LSH	LONG SLOTTED HOLE
ARCH	ARCHITECTURAL	LT	LIGHT
ASNT	AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING	LVF	LOW VELOCITY FASTENER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LVL	LEVEL LAMINATED VENEER LUMBER
AWS	AMERICAN WELDING SOCIETY	M	METER
(B)	BELOW	MAS	MASONRY
BLKG	BLOCKING	MAX	MAXIMUM
BLDG	BUILDING	MECH	MECHANICAL
bf	FLANGE WIDTH	MEZZ	MEZZANINE
B.O.	BOTTOM OF	MF	MOMENT FRAME
BOC	BOTTOM OF CONCRETE	MFR	MANUFACTURER
BOD	BOTTOM OF DECK	MH	MANHOLE
BOT	BOTTOM	MIL	ONE THOUSANDTH OF AN INCH
BP	BASE PLATE	MIN	MINIMUM
BRNG	BEARING	MISC	MISCELLANEOUS
BS	BOTH SIDES	MM	MILLIMETER
		MT	MAGNETIC PARTICLE TEST
CANT	CANTILEVER		
CBF	CONCENTRIC BRACED FRAME	(N)	NEW
CHAN	CHANNEL	N	NORTH
CIP	CAST IN PLACE	NA	NOT APPLICABLE
CJP	COMPLETE JOINT PENETRATION	NAAMM	NATIONAL ASSOCIATION OF ARCH METAL MANUFACTURERS
CJP	CONTROL/CONSTRUCTION JOINT	NFS	NON FRIGST SUSCEPTIBLE
CLR	CLEAR, CLEARANCE	NIC	NOT IN CONTRACT
CMP	CORRUGATED METAL PIPE	NIP	NOT IN PERMIT
COL	COLUMN	NO	NORMAL, NUMBER
CONT	CONTINUOUS	NORM	NORMAL
CONC	CONCRETE	NS	NEAR SIDE
CONN	CONNECTION	NTS	NOT TO SCALE
CONST	CONSTRUCTION	OC, O.C.	ON CENTER
CONT	CONTINUOUS	OD	OUTSIDE DIAMETER
CONTR	CONTRACTOR	OF	OUTSIDE FACE
COORD	COORDINATE	OH	OPPOSITE HAND
CTR	CENTER	OPNG	OPENING
CVN	CHARPY V-NOTCH	OPP	OPPOSITE
CY	CUBIC YARD	OVS	OVERSIZE
		OWJ	OPEN WEB JOIST
D	BEAM DEPTH		
DBA	DEFORMED BAR ANCHOR	PAF	POWDER ACTUATED FASTENER
DBL	DOUBLE	PC	PRECAST
DEG	DEGREE	PCF	POUND PER CUBIC FOOT
DEMO	DEMOLITION	PEN	PENETRATION
DET	DETAIL	PIL	PILASTER
DIAA	DRILLED IN ADHESIVE ANCHOR	PJP	PARTIAL JOINT PENETRATION
DIAM, Ø	DIAMETER	PL	PLATE
DIEA	DRILLED-IN EXPANSION ANCHOR	PLCS	PLACES
DIM	DIMENSION	PLF	POUND PER LINEAR FOOT
DISA	DRILLED-IN SCREW ANCHOR	PLWD	PLYWOOD
DIST	DISTANCE	PNL	PANEL
DL	DEAD LOAD	PP	PARTIAL PENETRATION
DO, do	DITTO	PSF	POUND PER SQUARE FOOT
DP	DEEP	PSI	POUND PER SQUARE INCH
DWG	DRAWING(S)	PT	PENETRANT TEST, POINT OF TANGENCY
DWL	DOWEL		
		R, RAD	RADIUS
E	EAST	RD	ROOF DRAIN
(E)	EXISTING	REF	REFERENCE
EA	EACH	REINF	REINFORCE, REINFORCING
EF	EACH FACE	REQ'D	REQUIRED
EJ	EXPANSION JOINT	RO	ROUGH OPENING
EL	ELEVATION	RT	RADIOGRAPHIC TEST
ELEC	ELECTRICAL	S	SOUTH, SECTION MODULUS
ELEV	ELEVATION, ELEVATOR	SB	STRAP BEAM
EMBED	EMBEDMENT	SC	SLIP CRITICAL
ENGR	ENGINEER	SCHD	SCHEDULE
EQ	EQUAL	SD	SNOW DRIFT
EQUIP	EQUIPMENT	SDI	STEEL DECK INSTITUTE
EW	EACH WAY	SHT	SHEET
EXIST	EXISTING	SHTG	SHEATHING
EXP	EXPOSURE	SIM	SIMILAR
EXT	EXTERIOR	SJ	SLAB JOINT
		SJRO	SEISMIC JOINT ROUGH OPENING
F'C	CONCRETE COMPRESSIVE STRENGTH	SL	SLOPE
FCAW	FLUX CORED ARC WELDING	SLB	SNOW LOAD, BALANCED
FDN	FOUNDATION	SLRS	SEISMIC LOAD RESISTING SYSTEM
FIN	FINISH	SMAW	SHIELDED METAL ARC WELDING
FIN FLR	FINISH FLOOR	SOG	SLAB ON GRADE
FLG	FLANGE	SPEC	SPECIFICATIONS
FLR	FLOOR	SPCS	SPACES
FP	FIRE PROTECTION, FULL PENETRATION	SQ	SQUARE
FRD	FACILITIES REQUIREMENTS DOCUMENT	SSH	SHORT SLOTTED HOLE
FS	FAR SIDE	SS	STAINLESS STEEL
FT	FEET OR FOOT	SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
FTG	FOOTING	STD	STANDARD
GA	GAGE OR GAUGE	STL	STEEL
GALV	GALVANIZED	STRUCT	STRUCTURAL
GEN	GENERAL	SW	SHEAR WALL
GL	GLUED LAMINATED BEAM	SYM	SYMMETRICAL
GR	GRADE		
GWB	GYPSUM WALLBOARD	TBC	THREADED BAR COUPLER
GYP	GYPSUM	TBD	TO BE DETERMINED
		TBR	TO BE REMOVED
HAS	HEADED ANCHOR STUD	TC	TENSION/COMPRESSION CHORD
HI	HIGH	TEMP	TEMPERATURE, TEMPORARY
HDR	HEADER	Tf	FLANGE THICKNESS
HGR	HANGER	TL	TOTAL LOAD
HORIZ	HORIZONTAL	T.O.	TOP OF
HS	HEADED STUD	TOC	TOP OF CONCRETE
HSB	HIGH STRENGTH BOLT	TOD	TOP OF DECK
HSS	HOLLOW STEEL SECTION	TOF	TOP OF FOOTING
HT	HEIGHT	TOS	TOP OF STEEL, TOP OF SLAB
HVAC	HEATING/VENTILATING/AIR CONDITIONING	TL	TOTAL LOAD
		Tw	WEB THICKNESS
I	MOMENT OF INERTIA	T.W.	TOP OF WALL
IBC	INTERNATIONAL BUILDING CODE	TYP	TYPICAL
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	T&B	TOP AND BOTTOM
ICC	INTERNATIONAL CODE COUNCIL		
ID	INSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
IE	INVERT ELEVATION	UT	ULTRASONIC TESTING
IF	INSIDE FACE	VERT	VERTICAL
IJ	ISOLATION JOINT	W	WEST , WIDTH, WIDE FLANGE DESIGNATION
IN	INCHES	WF	WIDE FLANGE DESIGNATION
INFO	INFORMATION	WHS	WELDED HEADED STUD
INSUL	INSULATE, INSULATION	WP	WATER PROOFING, WORK POINT
INV	INVERT	WT	WEIGHT
J	JOULES	WWF	WELDED WIRE FABRIC
JST	JOIST	W/	WITH
JT	JOINT	W/C	WATER/CEMENT RATIO
K	KIP (1000 LBS)	W/CM	WATER/CEMENTITIOUS MATERIALS RATIO
KSI	KIPS PER SQUARE INCH	W/O	WITHOUT
		XS	EXTRA STRONG
		XXS	DOUBLE EXTRA STRONG

SHEET INDEX

SHT NO	SHEET TITLE
S-001	GENERAL STRUCTURAL NOTES
S-002	SPECIAL INSPECTION TABLES
S-101	FOUNDATION / ROOF FRAMING PLANS
S-501	TYPICAL FOUNDATION SECTIONS AND DETAILS
S-511	TYPICAL FRAMING SECTIONS AND DETAILS

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GENERAL STRUCTURAL NOTES

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SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN JDB
CHECKED SLA
DATE 02/10/2019

S-001
SHEET

IBC TABLE 2304.10.1 FASTENING SCHEDULE

CONNECTION	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
2. BRIDGING TO JOIST	(2) 8d COMMON (2 1/2"x0.131") (2) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL EACH END
3. SOLE PLATE TO JOIST OR BLOCKING	16d (3 1/2"x0.135") AT 16" OC 3"x0.131" NAILS AT 8" OC 3" 14 GAGE STAPLES AT 12" OC	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3" 16d (3 1/2"x0.135") AT 16" OC (4) 3"x0.131" NAILS AT 16" OC (4) 3" 14 GAGE STAPLES PER 16"	BRACED WALL PANELS
4. TOP PLATE STUD	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	END NAIL
5. STUD TO SOLE PLATE	(4) 8d COMMON (2 1/2"x0.131") (4) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	END NAIL
6. DOUBLE STUDS	16d (3 1/2"x0.135") AT 24" OC 3"x0.131" NAIL AT 8" OC 3" 14 GAGE STAPLES AT 8" OC	FACE NAIL
7. DOUBLE TOP PLATES	(4) 8d COMMON (2 1/2"x0.131") (4) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TYPICAL FACE NAIL
	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	LAP SPLICE
8. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
9. TOP PLATES, LAPS AND INTERSECTIONS	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL
10. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3 1/2"x0.162")	16" OC ALONG EDGE
11. CONTINUOUS HEADER TO STUD	(4) 8d COMMON (2 1/2"x0.131")	TOENAIL
12. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
13. 1"x8" SHEATHING TO EACH BEARING	(3) 8d COMMON (2 1/2"x0.131")	FACE NAIL
14. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162") 3"x0.131" NAILS 3" 14 GAGE STAPLES	24"OC 16"OC 16"OC
15. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192") 32" OC 3"x0.131" NAIL AT 24" OC 3" 14 GAGE STAPLE AT 24" OC	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	(2) 20d COMMON (4"x0.192") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL AT ENDS AND AT EACH SPLICE
16. JACK RAFTER TO HIP	(3) 10d COMMON (3"x0.148") (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	TOENAIL
	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL
17. ROOF RAFTER TO 2x RIDGE BEAM	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL
18. LEDGER STRIP	(3) 16d COMMON (3 1/2"x0.162") (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL
19. WOOD STRUCTURAL PANELS AND PARTICLE BOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS	6d 2 3/8"x0.113" NAIL 1 3/4" 16 GAGE
	19/32" TO 3/4"	8d OR 6d 2 3/8"x0.113" NAIL 2" GAGE
	7/8" TO 1"	8d
20. PANEL SIDING (TO FRAMING)	1/2" OR LESS 5/8"	6d 8d
21. INTERIOR PANELING	1/4" 3/8"	4d 6d

A. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
B. NAILS SPACED AT 6" ON CENTER AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASTING.
C. COMMON OR DEFORMED SHANK (6d-2"x0.113"; 8d-21/2"x0.131"; 10d-3"x0.148").
D. COMMON (6d-2"x0.113"; 8d-21/2"x0.131"; 10d-3"x0.148").
E. DEFORMED SHANK (6d-2"x0.113"; 8d-21/2"x0.131"; 10d-3"x0.148").
F. CORROSION-RESISTANT SIDING (6d-1?/8"x0.106"; 8d-23/8"x0.128") OR CASTING (6d-2"x0.099"; 8d-21/2"x0.113") NAIL.
G. FASTENERS SPACED 3" ON CENTERED AT EXTERIOR EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
H. CORROSION-RESISTANT ROOFING NAILS WITH 7/16"Ø HEAD AND 11/2" LENGTH FOR 1/2" SHEATHING AND 13/4" LENGTH FOR 25/32" SHEATHING.
I. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1!8" LENGTH FOR 1/2" SHEATHING AND 11/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
J. CASTING (11/2"x0.080") OR FINISH (11/2"x0.072") NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
K. PANEL SUPPORTS AT 24". CASTING OR FINISH NAILS SPACED AT 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
L. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (21/2"x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
M. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16".
N. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS.
O. FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" ON CENTER AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
P. FASTENER SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS.
Q. REFER TO DRAWINGS FOR DETAILS AND SCHEDULES. THE MORE STRAIGHT CONDITION SHALL APPLY.

AISC 360-10 TABLE N5.4 STRUCTURAL STEEL INSPECTION TASKS FOR WELDING

INSPECTION TASKS PRIOR TO WELDING

VERIFICATION AND INSPECTION	QC	QA	REFERENCED STANDARD
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	AISC 360-10 TABLE N5.4-1
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P	
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	
WELDER IDENTIFICATION SYSTEM	O	O	
FIT-UP OF GROOVE WELDS (INLCUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O	
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O	
CHECK WELDING EQUIPMENT	O	---	

INSPECTION TASKS DURING WELDING

VERIFICATION AND INSPECTION	QC	QA	REFERENCED STANDARD
USE OF QUALIFIED WELDERS	O	O	AISC 360-10 TABLE N5.4-2
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O	
NO WELDING OVER CRACKED TACK WELDS	O	O	
ENVIROMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITION AND TEMPERATURE	O	O	
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH)	O	O	
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O	

INSPECTION TASKS AFTER WELDING

VERIFICATION AND INSPECTION	QC	QA	REFERENCED STANDARD
WELDS CLEANED	O	O	AISC 360-10 TABLE N5.4-3
SIZE, LENGTH AND LOCATION OF WELDS	P	P	
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P	
ARC STRIKES	P	P	
k-AREA[1]	P	P	
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P	
REPAIR ACTIVITIES	P	P	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	

OTHER INSPECTION TASKS

VERIFICATION AND INSPECTION	QC	QA	REFERENCED STANDARD
PROTECTED ZONE - NO HOLES CUT AND UN-APPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR; INSPECTION TO BE PERFORMED FOLLOWING COMPLETION OF THE WORK OF OTHER TRADES	P/D	P/D	AISC 341-10 TABLE J6-1

1. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. OF WELD.
2. THE FABRICATOR OR ERECTOR , AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW STRESS TYPE.

TABLE NOTES:

"QC" INDICATES QUALITY THAT SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.

"QA" INDICATES QUALITY ASSURANCE THAT SHALL BE PROVIDED BY THE SPECIAL INSPECTOR HIRED BY THE OWNER.

"O" INDICATES OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

"P" SHALL MEAN TO PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.

"D" INDICATES DOCUMENTATION SHALL BE PREPARED BY INSPECTOR INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

"SFRS" SEISMIC FORCE RESISTING SYSTEM.

IBC TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

	VERIFICATION AND INSPECTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1.	INSPECTION REINFORCEMENT, AND VERIFY PLACEMENT.	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2.	INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
3.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.[a] a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X - -	 ACI 318: 17.8.2.4 X ACI 318: 17.8.2		-
4.	VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
6.	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318	1908.6, 1908.7, 1908.8
7.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3 - 26.5.5	1908.9
8.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2 (b)	-

A. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFFESIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

IBC TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

	VERIFICATION AND INSPECTION TASK	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

WOOD CONSTRUCTION
REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION

	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
1.	PREFABRICATED WOOD STRUCTURAL ELEMENTS SHALL BE IN ACCORDANCE WITH SECTION 1704.2.5	-	X	1704.2.5

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SPECIAL INSPECTION TABLES
SHEET TITLE

SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217
PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201
CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
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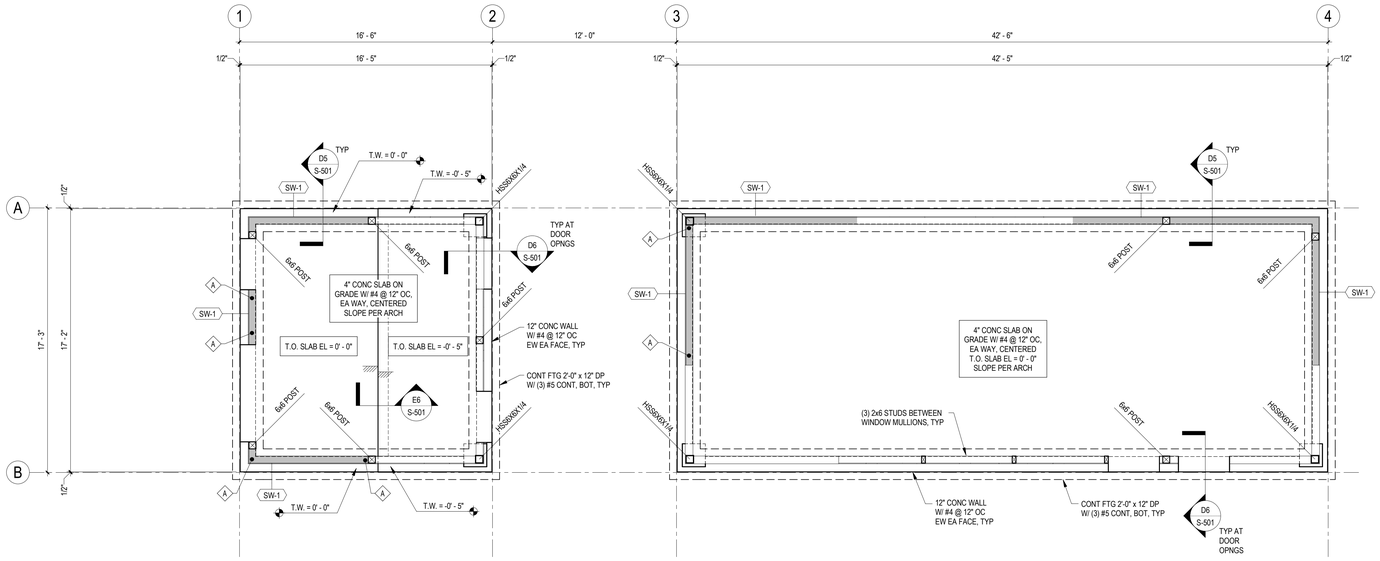
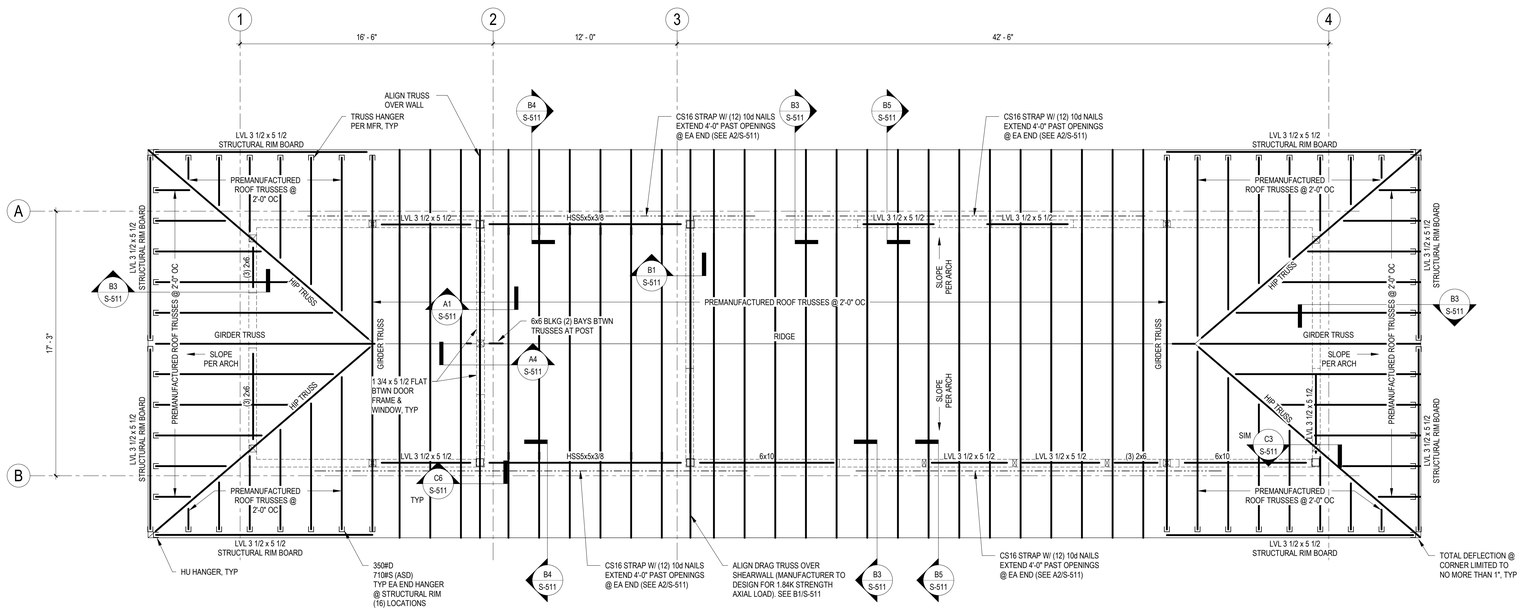
CHECKED SLA
DATE 02/10/2019

S-002
SHEET



1 FOUNDATION PLAN

SCALE : 1/4" = 1'-0"



2 ROOF FRAMING PLAN

SCALE : 1/4" = 1'-0"

SHEET NOTES

1. SEE SHEET S-001 FOR GENERAL STRUCTURAL NOTES.
2. SEE SHEET S-002 FOR IBC SPECIAL INSPECTION TABLES AND IBC NAILING SCHEDULE.
3. FOR TYPICAL FOUNDATION AND FRAMING DETAILS NOT REFERENCED ON PLAN SEE S-5XX SERIES SHEETS.
4. COLUMN SIZES AND LOCATIONS ARE SPECIFIED AT BASE OF COLUMNS.
5. VERIFY ALL PLAN DIMENSIONS WITH ARCHITECTURAL PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE CONTROL JOINTS IN SLAB ON GRADE AT 10'-0" OC MAX IN EACH DIRECTION PER DETAIL E3/S-501. CONTROL JOINTS SHALL FORM NEARLY SQUARE SHAPES WITH ASPECT RATIOS NOT TO EXCEED 1.5:1.
7. D1 — INDICATES SPAN DIRECTION OF STRUCTURAL ROOF SHEATHING PER GENERAL STRUCTURAL NOTES WITH STANDING SEAM METAL DECK PER ARCHITECTURAL.
8. INDICATES A STRUCTURAL SHEAR WALL. SEE S-511 FOR ADDITIONAL INFORMATION.
9. INDICATES A STRUCTURAL WALL BELOW.
10. INDICATES A STRUCTURAL WALL ABOVE.
11. A — INDICATES HOLDOWN TYPE. SEE C1/S-511 FOR ADDITIONAL INFORMATION.
12. SW-X — INDICATES SHEAR WALL TYPE. SEE SCHEDULE ON SHEET S-511 FOR ADDITIONAL INFORMATION. TYPICAL SHEAR WALL ELEVATION PER D1/S-511.
13. EXTERIOR WALL FRAMING TO BE 2x6 STUDS @ 16" OC TYPICAL, UNLESS NOTED OTHERWISE.
14. EXTERIOR OPENING HEADERS AS SHOWN ON PLAN. SEE D3/S-511 FOR HEADER SCHEDULE. HEADERS ARE REQUIRED AT ALL EXTERIOR OPENINGS.
15. CONTRACTOR TO COORDINATE ALL DOOR AND WINDOW OPENINGS, PIPE PENETRATIONS, BLOCKOUTS, DRAINS, DEPRESSIONS, MECHANICAL EQUIPMENT PADS AND ALL OTHER BUILDING REQUIREMENTS WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS PRIOR TO POURING FOUNDATIONS.
16. INDICATES LOCATION OF COIL STRAP.

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FOUNDATION / ROOF FRAMING PLANS

SHEET TITLE

SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

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1230 W. Boone Avenue, Spokane, Washington 99201

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No.	Date	By

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DATE	02/10/2019

S-101

SHEET

BAR SIZE	DEVELOPMENT OF STANDARD HOOKS (90 DEGREES)					
	fʼc = 2,200 PSI		fʼc = 2,500 OR 3,000 PSI		fʼc = 4,000 PSI	
	Ldh/ Fy=40 ksi	Ldh/ Fy=60 ksi	Ldh/ Fy=40 ksi	Ldh/ Fy=60 ksi	Ldh/ Fy=40 ksi	Ldh/ Fy=60 ksi
#3	6"	7"	6"	7"	6"	6"
#4	6"	9"	6"	9"	6"	7"
#5	8"	12"	4"	11"	6'	9"
#6	9"	14"	9"	13"	7"	10"
#7	11"	16"	10"	15"	8"	12"
#8	12"	18"	12"	17"	9"	14"
#9	14"	21"	13"	19"	10"	15"
#10	16"	23"	15"	22"	12"	17"
#11	17"	26"	16"	24"	13"	19"

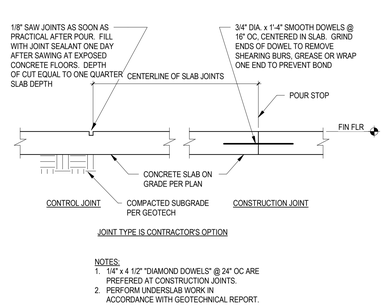
NOTE:
DEVELOPMENT LENGTHS MAY BE MULTIPLIED BY 0.7 FOR BARS WITH SIDE COVER (NORMAL TO PLANE OF HOOK) NOT LESS THAN 2-1/2", AND FOR 90°, COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2".

E1 TYPICAL MIN DEVELOPMENT LENGTHS FOR 90° HOOKED BARS
3/4" = 1'-0"

BAR SIZE	CLASS B TENSION SPLICES, Ls				COMPRESSION BARS, Lsc	
	fʼc = 2,500 OR 3,000 PSI fy = 60 ksi		fʼc = 4,000 PSI fy = 60 ksi		fʼc = ALL	
	REGULAR BARS	TOP BARS	REGULAR BARS	TOP BARS	OPEN	ENCLOSED W/ TIES SPACED NOT MORE THAN 4" O.C.
#3	23"	30"	18"	24"	12"	12"
#4	31"	40"	25"	33"	15"	12"
#5	39"	51"	31"	41"	19"	15"
#6	47"	61"	37"	48"	23"	18"
#7	68"	89"	54"	70"	26"	20"
#8	78"	102"	62"	81"	30"	23"
#9	88"	114"	70"	91"	34"	26"
#10	99"	129"	78"	101"	38"	29"
#11	110"	143"	87"	113"	42"	32"

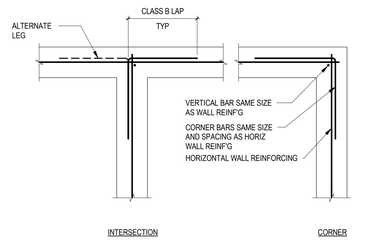
NOTES:
1. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, SLABS AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES AND LAP SPLICES IN CONCRETE COLUMNS SHALL BE COMPRESSION LAP SPLICES.
2. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH.
3. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

E2 TYPICAL MIN SPLICE LENGTHS FOR REINF IN CONC
3/4" = 1'-0"

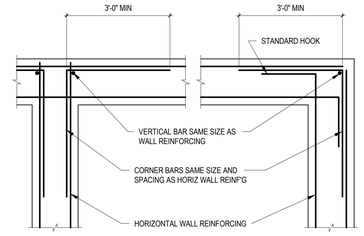


NOTES:
1. 1/4" x 4 1/2" "DIAMOND DOWELS" @ 24" OC ARE PREFERED AT CONSTRUCTION JOINTS.
2. PERFORM UNDERSLAB WORK IN ACCORDANCE WITH GEOTECHNICAL REPORT.

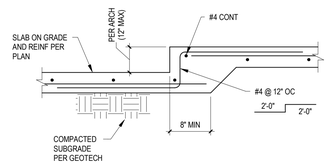
E3 TYPICAL SLAB ON GRADE JOINT
3/4" = 1'-0"



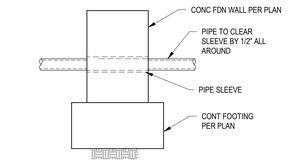
E4 TYPICAL CONC WALL REINF (SINGLE CURTAIN)
3/4" = 1'-0"



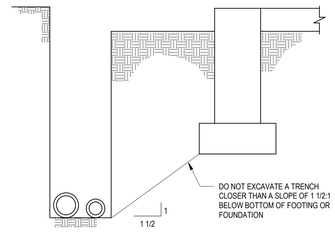
E5 TYPICAL CONC WALL REINF (DOUBLE CURTAIN)
3/4" = 1'-0"



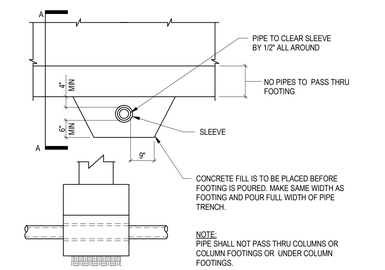
E6 TYPICAL STEP IN CONC SLAB
1" = 1'-0"



D1 TYPICAL PIPE PASSING THRU CONC FOUNDATION WALL
3/4" = 1'-0"

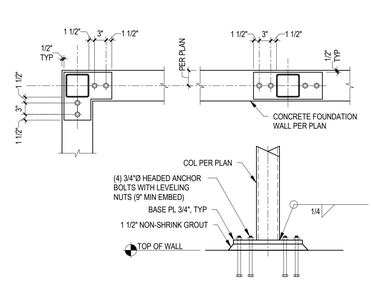


D2 TYPICAL TRENCH PARALLEL TO FDN
3/4" = 1'-0"

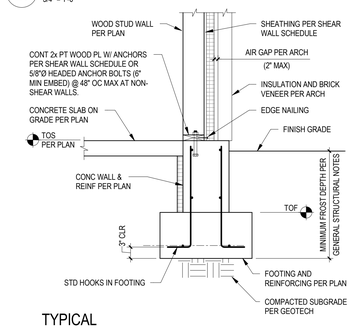


NOTE:
PIPE SHALL NOT PASS THRU COLUMNS OR COLUMN FOOTINGS OR UNDER COLUMN FOOTINGS.

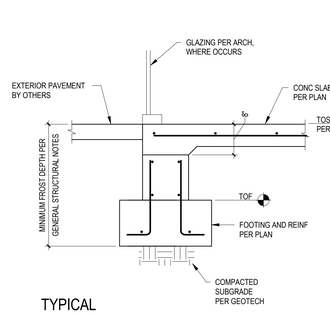
D3 TYPICAL PIPE PASSING BELOW FOUNDATION WALL FTG
3/4" = 1'-0"



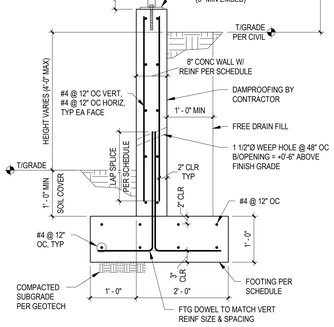
D4 TYPICAL HSS COLUMN BASE AT FOUNDATION WALL
3/4" = 1'-0"



D5 TYPICAL FOUNDATION AT EXTERIOR WOOD STUD WALL
3/4" = 1'-0"

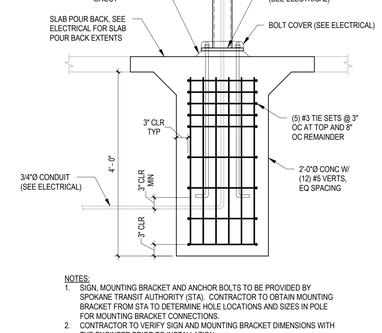


D6 TYPICAL SECTION AT DOOR OPENING AND CURTAIN WALL
3/4" = 1'-0"



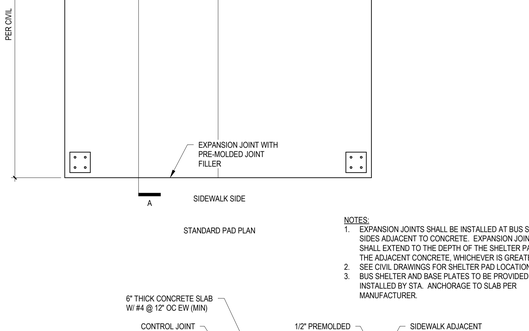
NOTES:
1. WALL LOCATIONS & ELEVATIONS PER CIVIL.
2. CONTRACTOR TO COORDINATE WALL REQUIREMENTS WITH CIVIL PLANS AND WALL SCHEDULE.
3. PAVEMENT PER CIVIL NOT SHOWN.
4. GUARDRAIL REQUIRED AT WALL HEIGHTS OF 2'-0" OR GREATER.
5. GALVANIZE ALL GUARDRAIL STEEL.

B1 SITE RETAINING WALL SECTION
3/4" = 1'-0"



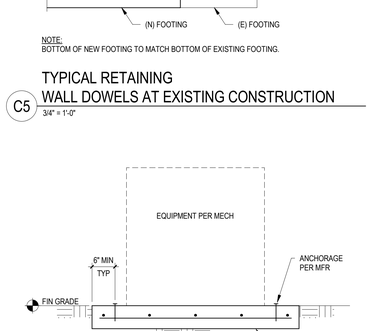
NOTES:
1. SIGN, MOUNTING BRACKET AND ANCHOR BOLTS TO BE PROVIDED BY SPOKANE TRANSIT AUTHORITY (STA). CONTRACTOR TO OBTAIN MOUNTING BRACKET FROM STA TO DETERMINE HOLE LOCATIONS AND SIZES IN POLE FOR MOUNTING BRACKET CONNECTIONS.
2. CONTRACTOR TO VERIFY SIGN AND MOUNTING BRACKET DIMENSIONS WITH THE ENGINEER PRIOR TO INSTALLATION.
3. SIGN AND MOUNTING BRACKET DESIGN PER MANUFACTURER. SIGN AND MOUNTING BRACKET ARE THE SOLE RESPONSIBILITY OF THE SIGN SUPPLIER. SIGN AND MOUNTING BRACKET MUST BE CAPABLE OF SUPPORTING ALL LOADS NOTED ON S-001.
4. GALVANIZE OR PAINT ALL STEEL TO PREVENT CORROSION. COORDINATE WITH ELECTRICAL.
5. PROVIDE NEOPRENE WASHERS WITH ALL CONNECTIONS.
6. REFERENCE ELECTRICAL DRAWINGS FOR POLE SPECIFICATIONS.
7. SEE CIVIL DRAWINGS FOR SIGN LOCATIONS AND QUANTITY.

B2 POLE MOUNTED SIGN
3/4" = 1'-0"



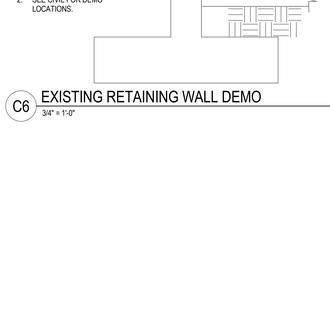
NOTES:
1. EXPANSION JOINTS SHALL BE INSTALLED AT BUS SHELTER SIDES ADJACENT TO CONCRETE. EXPANSION JOINTS SHALL EXTEND TO THE DEPTH OF THE SHELTER PAD OR THE ADJACENT CONCRETE, WHICHEVER IS GREATER.
2. SEE CIVIL DRAWINGS FOR SHELTER PAD LOCATIONS.
3. BUS SHELTER AND BASE PLATES TO BE PROVIDED AND INSTALLED BY STA. ANCHORAGE TO SLAB PER MANUFACTURER.

B3 REINFORCED CONCTRETE SHELTER PAD
1/2" = 1'-0"



NOTE:
BOTTOM OF NEW FOOTING TO MATCH BOTTOM OF EXISTING FOOTING.

C5 TYPICAL RETAINING WALL DOWELS AT EXISTING CONSTRUCTION
3/4" = 1'-0"



NOTES:
1. NEW RETAINING WALL PER B4/S-501 TO BE INSTALLED PRIOR TO DEMOLITION OF EXISTING RETAINING WALL.
2. SEE CIVIL FOR DEMO LOCATIONS.

C6 EXISTING RETAINING WALL DEMO
3/4" = 1'-0"

NOTE:
SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF EQUIPMENT REQUIRING CONCRETE HOUSEKEEPING PADS.

B5 TYPICAL EQUIPMENT PAD
3/4" = 1'-0"

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SHEET TITLE: TYPICAL FOUNDATION SECTIONS AND DETAILS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

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PROJ. NO.	2018-10258
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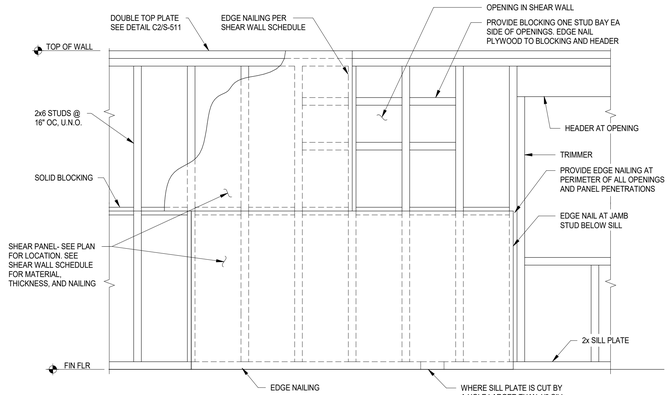
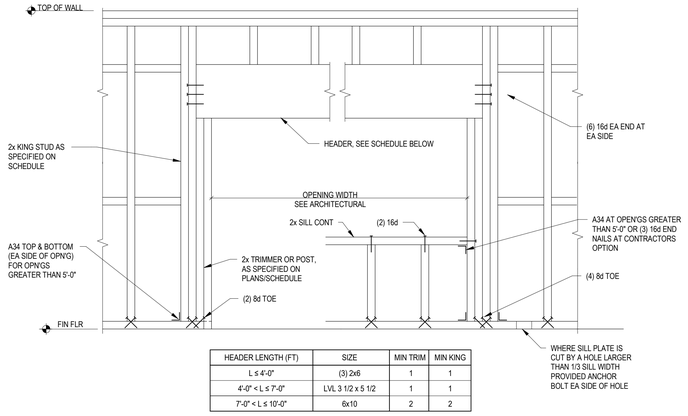
SHEET: S-501



D1 TYPICAL SHEAR WALL ELEVATION
3/4" = 1'-0"



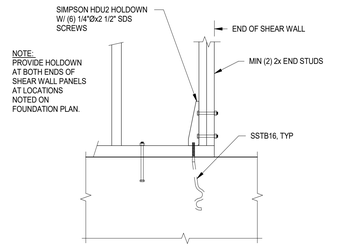
HEADER LENGTH (FT)	SIZE	MIN TRIM	MIN KING
L ≤ 4'-0"	(3) 2x6	1	1
4'-0" < L ≤ 7'-0"	LVL 3 1/2 x 5 1/2	1	1
7'-0" < L ≤ 10'-0"	6x10	2	2

D3 TYPICAL HEADER CONNECTION DETAIL
3/4" = 1'-0"

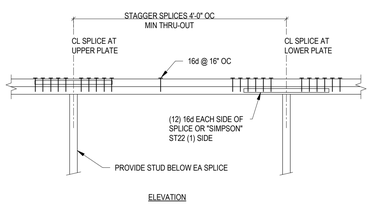
SHEAR WALL SCHEDULE							
LABEL	APA RATED SHEATHING	NAILING AT PANEL EDGES	RIM JOIST OR BLOCK CONNECTION TO TOP PLATE	DOUG FIR, SILL PLATE ATTACHMENT		ALLOWABLE CAPACITY (plf)	
				ANCHOR BOLT	SILL PLATE SIZE	WIND	SEISMIC
1	15/32" PLYWOOD STRUCTURAL I SHEATHING, ONE SIDE	10d @ 6" OC	A35 @ 16" OC OR A34 AND LTP4 @ 32" OC	5/8" @ 32" OC OR 3/4" @ 48" OC (6" EMBED) OR 5/8"Ø POST-INSTALLED SCREW ANCHOR (4" EMBED) @ 24" OC	2X	365	260

NOTES:
1. INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY. PANEL EDGES SHALL BE BACKED WITH 2" NOMINAL OR SIDER FRAMING.
2. WHERE SHEATHING IS APPLIED ON BOTH FACES OF WALL, PANEL JOINTS SHALL BE STAGGERED SO THAT JOINTS ON OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUDS.
3. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR THE ENTIRE LENGTH OF THE WALLS INDICATED ON PLAN.
4. INTERMEDIATE FRAMING TO BE WITH 2X MINIMUM MEMBERS. FIELD NAILING @ 12" OC.
5. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS.
6. ALL ANCHOR BOLTS TO BE INSTALLED WITH SIMPSON BPS-6 BEARING PLATES IN 2x6 WALLS AND BPS-3 BEARING PLATES IN 2x4 SHEAR WALLS OR EQUIVALENTLY SIZED PLATE WASHERS.

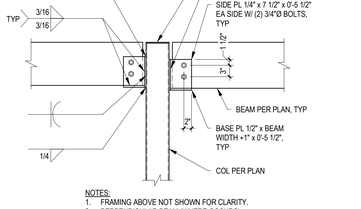
D5 SHEAR WALL SCHEDULE
3/4" = 1'-0"



C1 TYPICAL SHEAR WALL HOLDOWN AT FDN
3/4" = 1'-0"

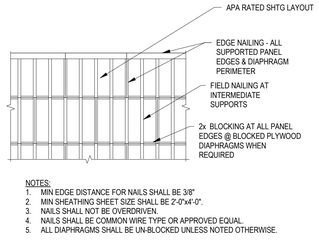


C2 TYPICAL DOUBLE TOP PLATE SPLICE
3/4" = 1'-0"



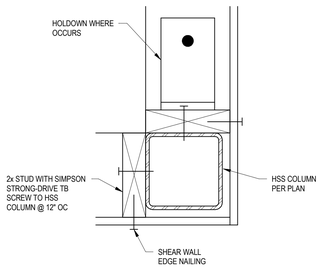
NOTES:
1. FRAMING ABOVE NOT SHOWN FOR CLARITY.
2. PERPENDICULAR BEAM (WHERE OCCURS) NOT SHOWN FOR CLARITY.

C3 WOOD BEAM TO STEEL COLUMN
3/4" = 1'-0"

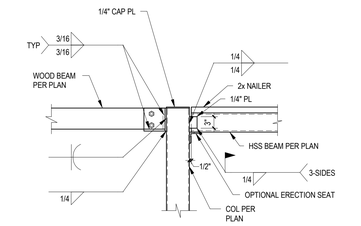


NOTES:
1. MIN EDGE DISTANCE FOR NAILS SHALL BE 3/8"
2. MIN SHEATHING SHEET SIZE SHALL BE 2'-0"x4'-0".
3. NAILS SHALL NOT BE OVERDRIVEN.
4. NAILS SHALL BE COMMON WIRE TYPE OR APPROVED EQUAL.
5. ALL DIAPHRAGMS SHALL BE UN-BLOCKED UNLESS NOTED OTHERWISE.

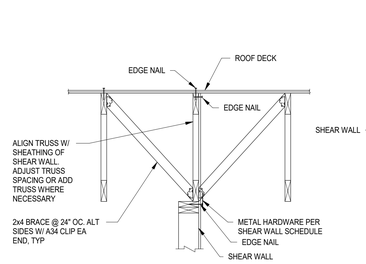
TYPICAL SHEATHED
C4 ROOF DIAPHRAGM CONSTRUCTION
3/4" = 1'-0"



C5 TYPICAL HSS COLUMN WITH WOOD NAILER
3" = 1'-0"

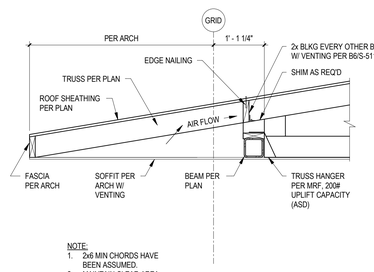


C6 HSS COLUMN TO HSS BEAM
3/4" = 1'-0"



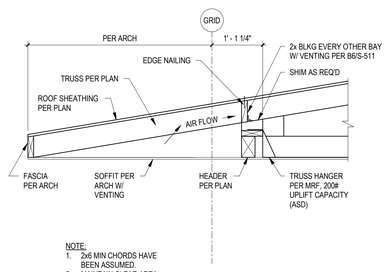
NOTE:
1. 2x6 MIN CHORDS HAVE BEEN ASSUMED.
2. MAINTAIN CLEAR AREA WITHOUT INSULATION FOR VENTING AIRFLOW.

B3 ROOF TRUSS BEARING AT EXTERIOR WALL
3/4" = 1'-0"



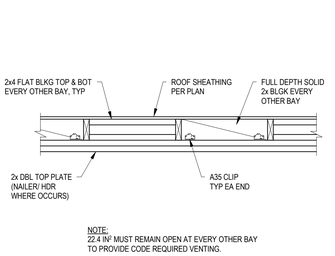
NOTE:
1. 2x6 MIN CHORDS HAVE BEEN ASSUMED.
2. MAINTAIN CLEAR AREA WITHOUT INSULATION FOR VENTING AIR FLOW.

B4 ROOF TRUSS BEARING AT HSS HEADER
3/4" = 1'-0"



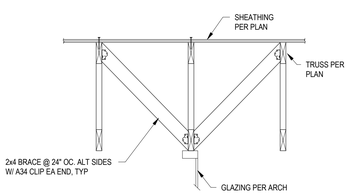
NOTE:
1. 2x6 MIN CHORDS HAVE BEEN ASSUMED.
2. MAINTAIN CLEAR AREA WITHOUT INSULATION FOR VENTING AIR FLOW.

B5 ROOF TRUSS BEARING AT WOOD HEADER
3/4" = 1'-0"



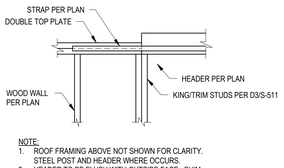
NOTE:
22.4 IN² MUST REMAIN OPEN AT EVERY OTHER BAY TO PROVIDE CODE REQUIRED VENTING.

B6 TYPICAL TRUSS BLOCKING DETAIL
3/4" = 1'-0"



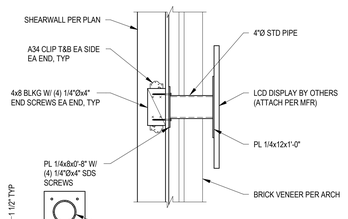
NOTE:
CONTRACTOR TO COORDINATE GLAZING CONNECTIONS REQUIREMENTS W/ DESIGN BY THE TRUSS MANUFACTURER.

A1 ROOF FRAMING PARALLEL TO GLAZING
3/4" = 1'-0"



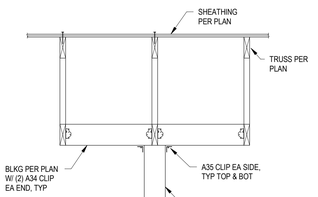
NOTE:
1. ROOF FRAMING ABOVE NOT SHOWN FOR CLARITY. STEEL POST AND HEADER WHERE OCCURS.
2. HEADER TO BE FLUSH WITH OUTSIDE FACE. SHIM AS REQ'D.

A2 TOP PLATE TO HEADER SPLICE
3/4" = 1'-0"



NOTE:
SEE SHEET A-200 FOR LOCATION OF LCD DISPLAY

A3 LCD DISPLAY MOUNT TO WALL
1" = 1'-0"



A4 ROOF FRAMING AT BREEZEWAY POST
3/4" = 1'-0"

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DAVID L. PEDRA
STATE OF WASHINGTON
27251
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
2-10-19

SHEET TITLE
TYPICAL FRAMING SECTIONS AND DETAILS

PROJECT NAME & ADDRESS
SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	JDB
CHECKED	SLA
DATE	02/10/2019

SHEET
S-511

GENERAL NOTES

1. PROVIDE 1/2" EXPANSION JOINT AND EXPANSION JOINT FILLER WHERE CONCRETE PAVING ABUTS VERTICAL SURFACES
2. ALL CONCRETE EDGES ADJACENT TO LANDSCAPING TO BE THICKENED
3. SEE CIVIL, LANDSCAPE, ELECTRICAL, AND STRUCTURAL PLANS FOR ADDITIONAL SITE INFORMATION AND DETAILS
4. PROTECT EXISTING SITEWORK SHOWN TO REMAIN FROM DAMAGE. REPLACE OR REPAIR ANY ITEM DAMAGED DURING CONSTRUCTION
5. ALL SITE METAL FABRICATIONS TO HAVE CONTINUOUS WELDS. CAP ALL OPEN STEEL TUBES OR PIPE MEMBERS TO PREVENT WATER ENTRY. ALL WELDS SHOULD BE GROUND SMOOTH. BUTT/FLUSH JOINTED WELDS TO BE GROUND FLUSH TO ELIMINATE APPEARANCE OF SEAMS
6. ALL SITE METAL WORK SHOULD BE GALVANIZED
7. ALL VERTICAL CONCRETE SURFACES INCLUDING LIGHT POLE BASES, PLANTERS, AND BENCHES TO RECEIVE ANTI GRAFFITI COATING
8. PROVIDE CONC PLOE BASES FOR ALL LIGHT POLES
9. REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR FULL EXTENT OF SITEWORK
10. SIDEWALK CONTROL JOINTS ARE TYPICALLY 5'-0" OC. ADJUST AS NECESSARY IN AREAS WHERE SHOWN DIFFERENTLY

MATERIAL LEGEND

- CONCRETE
- CONCRETE PAVERS
- LANDSCAPE (LS)
- NEW PAVEMENT

OPERATIONS BUILDING & PUBLIC RESTROOMS

EXISTING TENNIS COURTS TO REMAIN

EXISTING PARKING TO REMAIN

EXISTING SIDEWALK TO REMAIN

NORA AVENUE

91'-6 1/2" +/-

16' - 6"

12' - 0"

42' - 6"

31'-6" +/-

6' - 0" TYP

5' - 0"

SEE CIVIL FOR CONC SIDEWALK CONNECTION TO EXISTING SIDEWALKS

RAMP

STA PROVIDED AND INSTALLED SHELTER, TYP

BOLLARDS SEE CIVIL

BUS LANE

SKATEBOARD DETERANTS, TYP. ON ALL SITE BENCH WALLS

BIKE RACK SEE L-200

GRAVEL CENTER ISLAND

BUS LANE

10' - 0" TYP.

8'

PROJECT LIMITS SEE OFFSITE DRAWINGS

FACILITY SCREEN FENCE

FERRALL STREET

SYCAMORE STREET

EXISTING PARKING

1 ARCHITECTURAL SITE PLAN

SCALE : 1" = 20'-0"

NORTH

0 20' 40' 60'

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ARCHITECTURAL SITE PLAN

SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

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No.	Date	By

PROJ. NO.	2018-10258
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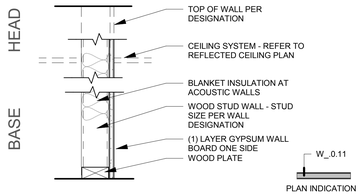
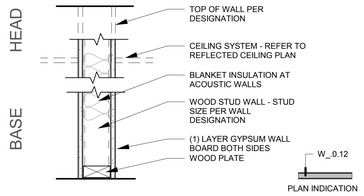
DATE	2/10/19

SHEET AS-101



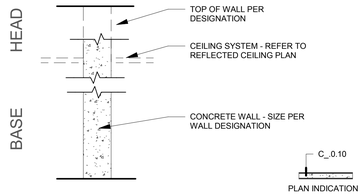
NOTES:

W_.0.11 WALL TYPE



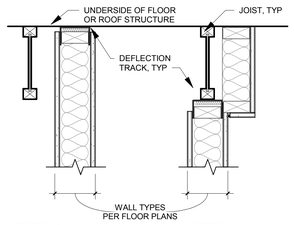
NOTES:

W_.0.12 WALL TYPE

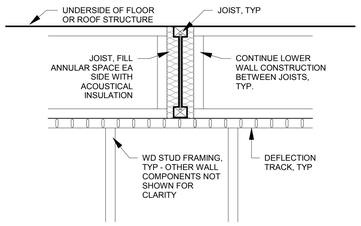


NOTES:

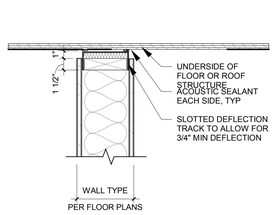
C_.0.10 WALL TYPE



WALL PARALLEL TO JOISTS



WALL PERPENDICULAR TO JOISTS



DEFLECTION TRACK TYPICAL DETAIL

WALL GENERAL NOTES

1. WALL TYPES INDICATE GENERIC CONSTRUCTION. FINISH AND COLOR SCHEDULES IDENTIFY SPECIFIC MATERIALS TO BE USED FOR THE SUBSTRATES. THIS MUST BE USED WITH THIS SCHEDULE TO UNDERSTAND THE TOTAL ASSEMBLY AND ITS FINISHES.

2. TYPICAL CONDITIONS (UNO):

   A: PERIMETER RELIEF: WHERE PARTITIONS MEET STRUCTURE OR DISSIMILAR CONSTRUCTION, PROVIDE PERIMETER RELIEF.
   B: FIRE RATED WALL FACE MATERIAL TERMINATIONS: CONTINUOUS FROM TOP OF FLOOR SLAB TO FLOOR OR ROOF SLAB ABOVE.
   C: ACOUSTICAL WALL SUBSTRATE MATERIAL: CONTINUOUS FROM TOP OF FLOOR SLAB TO FLOOR OR ROOF SLAB ABOVE. SEAL DEFLECTION SPACE AS REQUIRED.

3. SOUND TESTS SHOWN HAVE BEEN CONDUCTED ACCORDING TO THE REQUIREMENTS OF ASTM E 90 FOR LABORATORY TESTS OR ASTM 336 FOR FIELD TESTS. THE CONTRACTOR MUST ADHERE TO SPECIFIED MATERIALS AND CONSTRUCTION DETAILS FOR SOUND AND FIRE RATED ASSEMBLIES, ALL OPENINGS THROUGH THE ASSEMBLY, AND ITS ENTIRE PERIMETER, MUST BE SEALED AIRTIGHT.

4. FIRE RATED WALL CONSTRUCTION: PROVIDE FIRE STOPPING TO MEET FIRE RATINGS REQUIRED. WHERE OPENINGS ARE OVERSIZED, PROVIDE WALL INFILL TO MEET FIRE RATINGS.

5. IF HEIGHT DESIGNATOR IS NOT PROVIDED WALL IS TO BE FULL HEIGHT WITH SOUND ATTENUATION INSULATION.

WALL TAG DESIGNATION LEGEND

1. STUD SIZES AS FOLLOWS:

STEEL STUD:
1 = 1 5/8"
2 = 2 1/2"
4 = 3 5/8"
6 = 6"
8 = 8"
10 = 10"
12 = 12"
20 = 7/8" (FURRING)

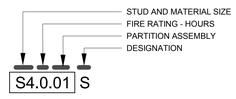
WOOD STUD:
2 = 1x2 (FURRING)
3 = 2x3
4 = 2x4
6 = 2x6
8 = 2x8

CMU / CONC:
NUMBER INDICATES NOMINAL WIDTH

2. STUD TYPES AS FOLLOWS:

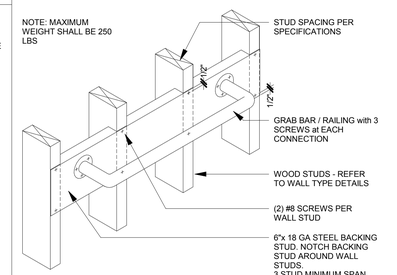
MATERIAL
S = STEEL STUD
W = WOOD STUD
M = CMU BLOCK
C = CONCRETE
H = CH STUD

DESIGNATION
F = FULL HT - VERIFY APPLICABLE CONNECTION DETAIL
P = PARTIAL HEIGHT -
H = HALF HEIGHT - HEIGHT PER INTERIOR ELEVATIONS
T = THERMAL INSULATION
S = SOUND ATTENUATION INSULATION FULL HEIGHT - STC RATING 45-49



NOTE: THIS DETAIL OCCURS AT WALL LOCATIONS THAT REQUIRE BACKING. REFER TO SPECIFICATIONS.

WALL BLOCKING



WALL BLOCKING

28 TYP TOP OF WALL - FULL HEIGHT WALL - WOOD STUD

SCALE : 1 1/2" = 1'-0"

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STAMP

SHEET TITLE: WALL TYPES

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue. Spokane, Washington 99201

BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
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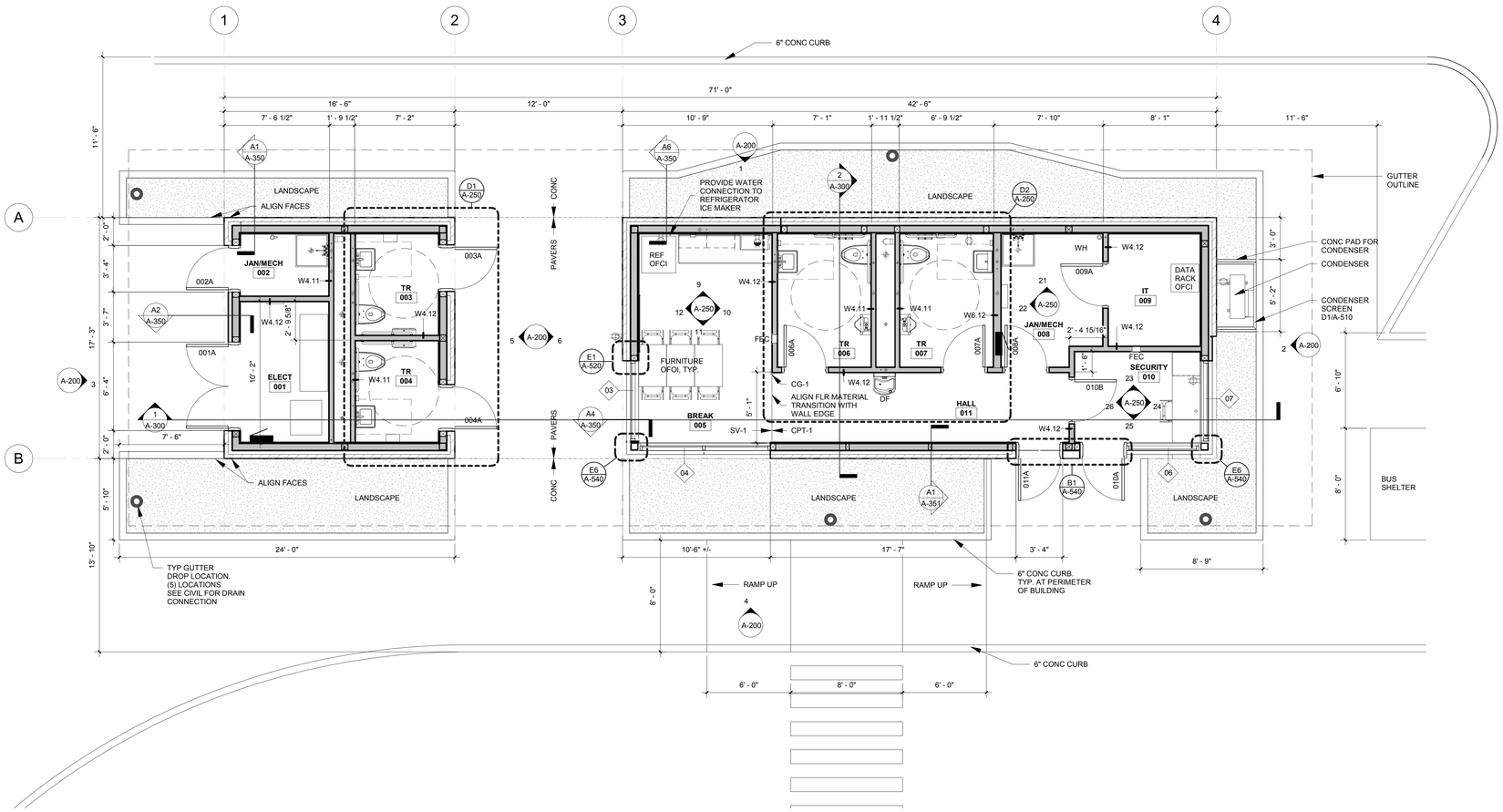
DATE	2/10/19

SHEET: A-051

GENERAL NOTES

1. DIMENSIONS ARE TO CENTER LINE OF STUD PARTITIONS, GRID LINES, FACE OF CMU, AND CENTERLINE OF COLUMNS UNO
2. CLR DIMENSIONS INDICATE CLEAR DIMENSIONS FROM FACE OF WALL FINISH
3. WALL TYPES DEFINE THE ENTIRE LENGTH OF A WALL ON THE WALL SIDE NOTED FROM CORNER TO CORNER UNO
4. MASONRY DIMENSIONS ARE NOMINAL, VERIFY ACTUAL DIMENSIONS
5. FOR EXTERIOR WALL CONSTRUCTION SEE WALL SECTIONS
6. SEE DOOR SCHEDULE FOR DOOR AND RELITE FRAME TYPES AND DETAIL REFERENCES
7. SEE SHEET G-003 FOR RATED WALL LOCATIONS. PROVIDE FIRE STOPPING TO MEET FIRE RATINGS REQUIRED. WHERE OPENINGS ARE OVERSIZED, PROVIDE WALL INFILL TO MEET WALL FIRE RATINGS
8. REFER TO EXTERIOR ELEVATION SHEETS FOR CLERESTORY WINDOW TYPES.



1 FLOOR PLAN

SCALE : 1/4" = 1'-0"

NORTH

0 1 2 4 8 12

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OVERALL FIRST FLOOR PLAN

SHEET TITLE

SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

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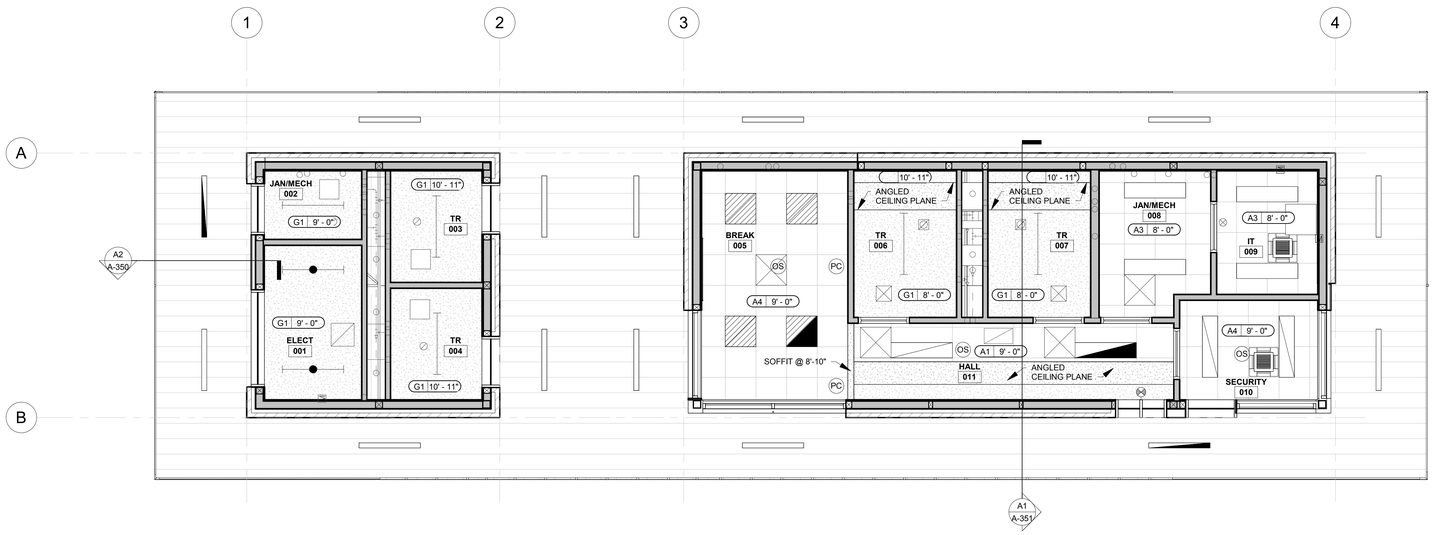
SHEET A-101

GENERAL NOTES

1. ACOUSTICAL AND GYPSUM BOARD CEILINGS ARE AS NOTED ON REFLECTED CEILING PLAN
2. ALL HEIGHTS LISTED ARE AFF UNO
3. PAINT ALL VISIBLE CEILING ELEMENTS INCLUDING BUT NOT LIMITED TO HVAC DUCTS, CONDUIT, PIPES AND STRUCTURAL ELEMENTS UNO
4. ALL GYP BD WALLS & SOFFITS EXPOSED TO VIEW SHALL BE PAINTED TO UNDERSIDE OF STRUCTURE.

CEILING TYPE LEGEND

- GYP. BOARD CEILING
- METAL CANOPY DECK
- OPEN TO STRUCTURE ABOVE
- 2'x2' SUSP. ACOUSTICAL PANEL CEILING
- 2X2 RECESSED LED LIGHT
- 1X4 RECESSED LED LIGHT
- 4" LED DOWN LIGHT
- 4" LED DOWN LIGHT W/EMERGENCY PACK
- LED INDUSTRIAL STRIP LIGHT
- LED INDUSTRIAL STRIP LIGHT W/EMERGENCY PACK
- EXIT LIGHT
- SUPPLY DIFFUSER
- RETURN DIFFUSER



1 REFLECTED CEILING PLAN

SCALE : 1/4" = 1'-0"

NORTH

0 1 2 4 8 12

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SHEET TITLE: REFLECTED CEILING PLAN

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

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DATE	2/10/19

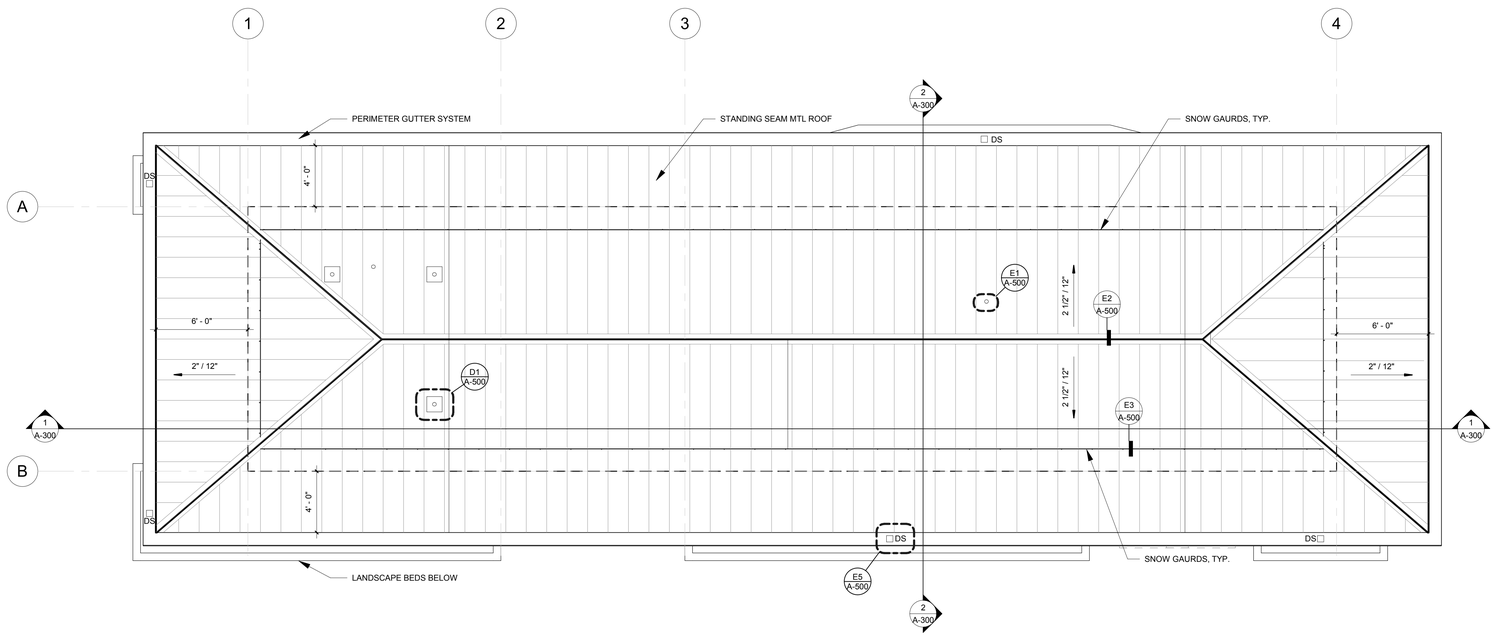
SHEET: A-102

GENERAL NOTES

1. REFER TO MECHANICAL FOR ALL ROOF PENETRATIONS AND LOCATION.
2. SEE SPECIFICATIONS FOR INFORMATION ON SNOW GUARDS.

ROOF LEGEND

- STANDING SEAM MTL ROOF
- □ DS — DOWNSPOUT LOCATION
- SNOW GUARD
- ○ — EXHAUST FAN. SEE MECHANICAL
- ○ — ROOF VENT. SEE MECHANICAL



1 ROOF PLAN

SCALE : 1/4" = 1'-0"

0 1 2 4 8 12 NORTH

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SHEET TITLE: ROOF PLAN

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

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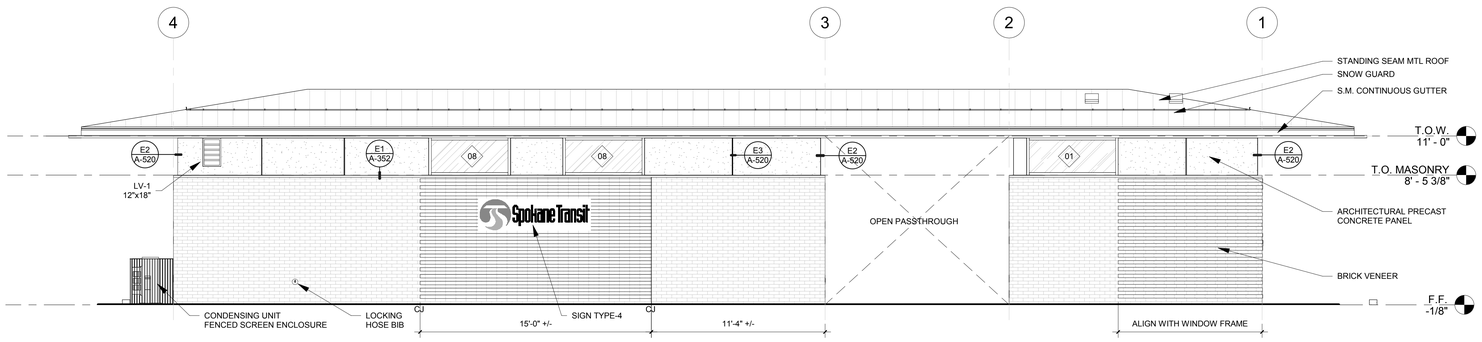
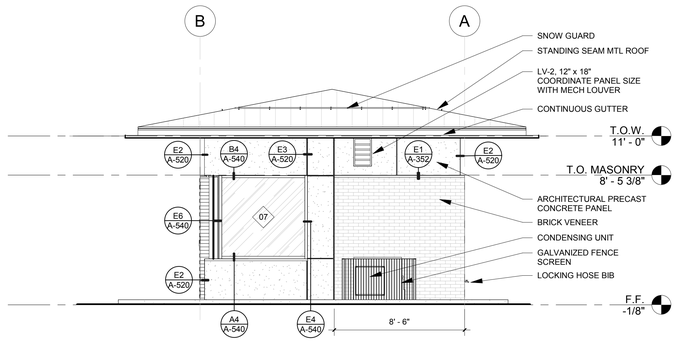


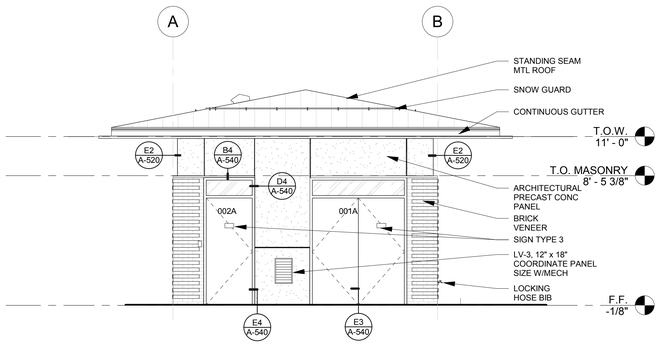
1 NORTH ELEVATION

SCALE : 1/4" = 1'-0"



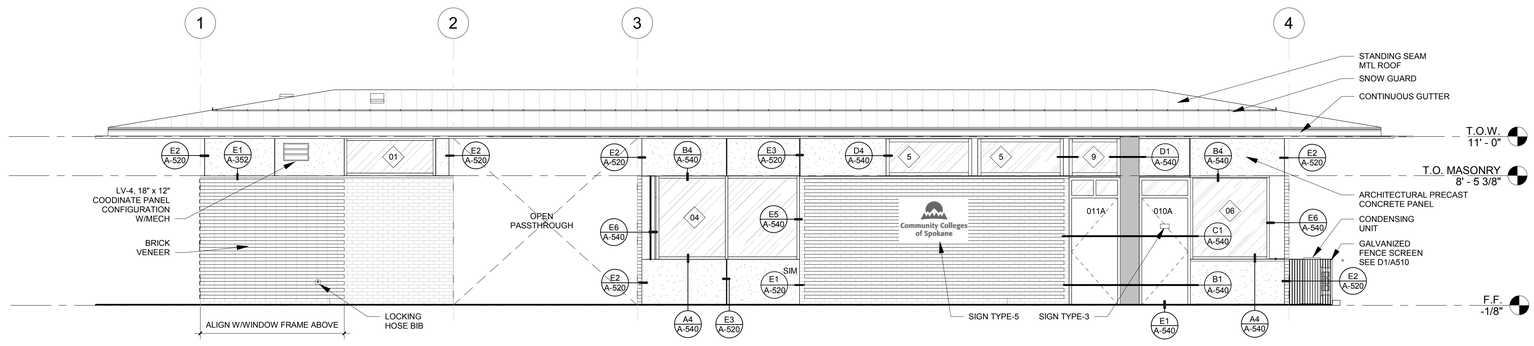
2 EAST ELEVATION

SCALE : 1/4" = 1'-0"



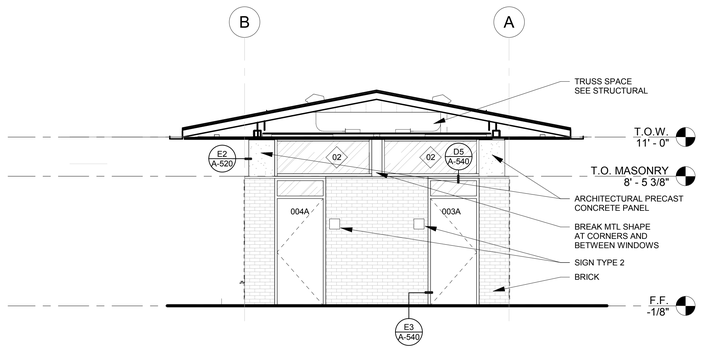
3 WEST ELEVATION

SCALE : 1/4" = 1'-0"



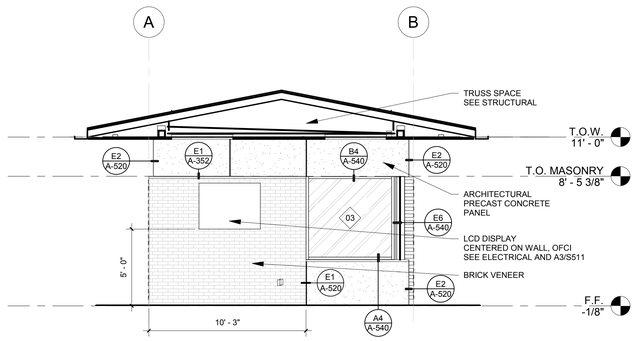
4 SOUTH ELEVATION

SCALE : 1/4" = 1'-0"



5 EAST ELEVATION - BREEZEWAY

SCALE : 1/4" = 1'-0"



6 WEST ELEVATION - BREEZEWAY

SCALE : 1/4" = 1'-0"

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OVERALL EXTERIOR ELEVATIONS

SHEET TITLE

SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

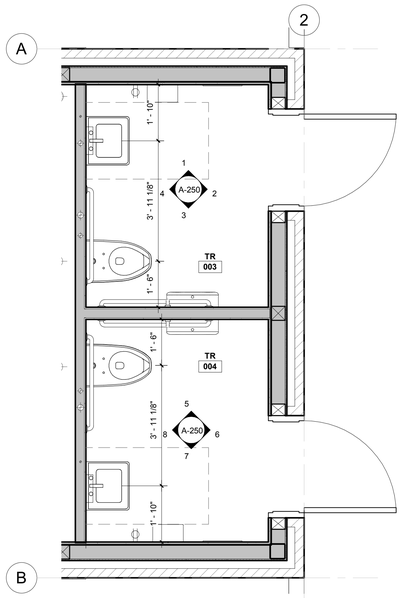
BID SET

REVISIONS		
No.	Date	By

PROJ. NO.	2018-10258
DRAWN	JTL
CHECKED	Checker
DATE	2/10/19

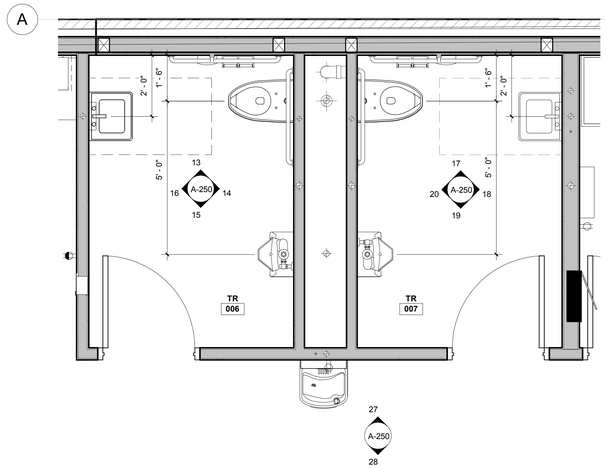
A-200

SHEET



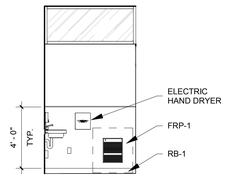
D1 ENLARGED PUBLIC RESTROOM PLAN

SCALE : 1/2" = 1'-0"



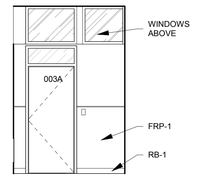
D2 ENLARGED EMPLOYEE RESTROOM PLANS

SCALE : 1/2" = 1'-0"



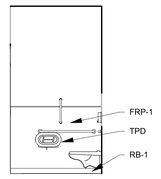
1 TR 003 - NORTH

SCALE : 1/4" = 1'-0"



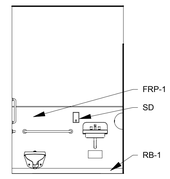
2 TR 003 - EAST

SCALE : 1/4" = 1'-0"



3 TR 003 - SOUTH

SCALE : 1/4" = 1'-0"



4 TR 003 - WEST

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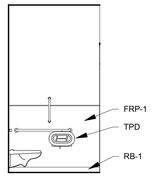
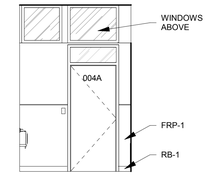


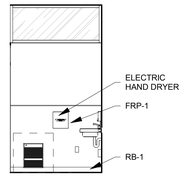
5 TR 004 - NORTH

SCALE : 1/4" = 1'-0"



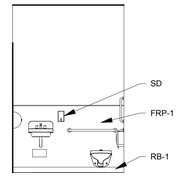
6 TR 004 - EAST

SCALE : 1/4" = 1'-0"



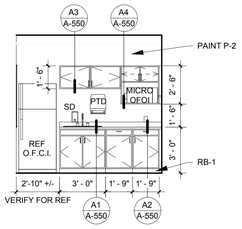
7 TR 004 - SOUTH

SCALE : 1/4" = 1'-0"



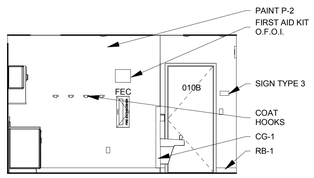
8 TR 004 - WEST

SCALE : 1/4" = 1'-0"



9 BREAK 005 - NORTH

SCALE : 1/4" = 1'-0"



10 BREAK 005 - EAST

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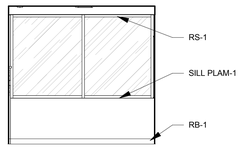

11 BREAK 005 - SOUTH

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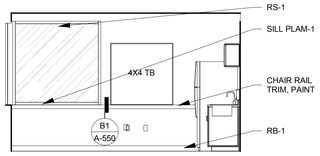
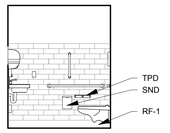


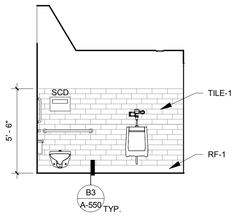
12 BREAK 005 - WEST

SCALE : 1/4" = 1'-0"



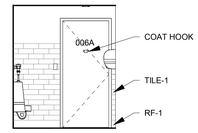
13 TR 006 - NORTH

SCALE : 1/4" = 1'-0"



14 TR 006 - EAST

SCALE : 1/4" = 1'-0"



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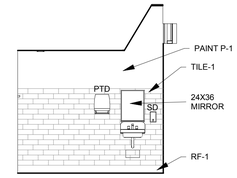

16 TR 006 - WEST

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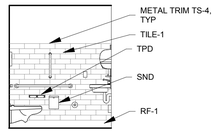

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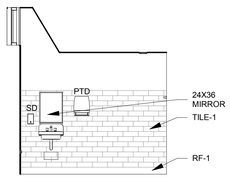

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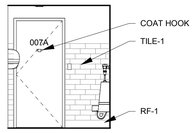
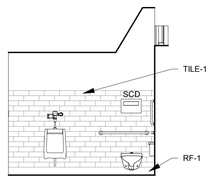


19 TR 007 - SOUTH

SCALE : 1/4" = 1'-0"



20 TR 007 - WEST

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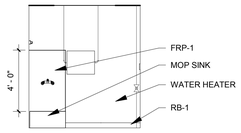

21 JAN/MECH 008 - NORTH

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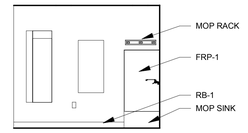

22 JAN/MECH 008 - WEST

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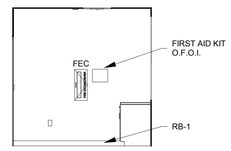

23 SECURITY 010 - NORTH

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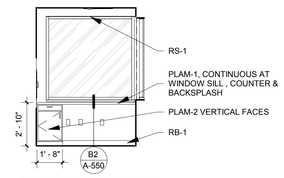

24 SECURITY 010 - EAST

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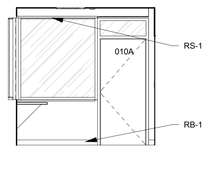

25 SECURITY 010 - SOUTH

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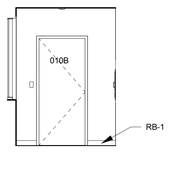

26 SECURITY 010 - WEST

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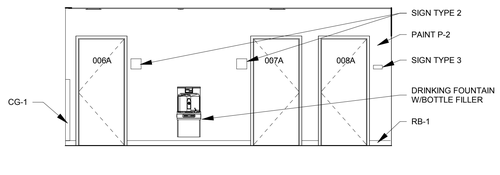
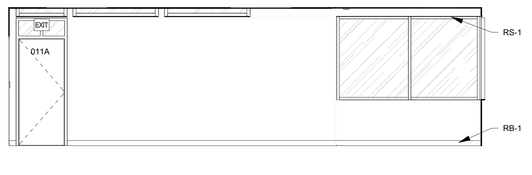


27 HALL 011 - NORTH

SCALE : 1/4" = 1'-0"



28 HALL 011 - SOUTH

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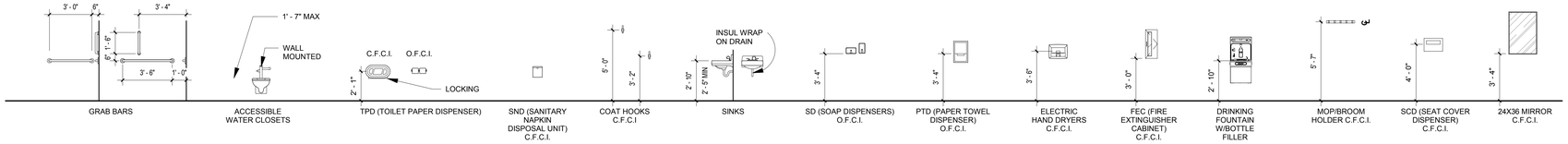

29 EQUIPMENT MOUNTING HEIGHTS

SCALE : 1/4" = 1'-0"

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SHEET TITLE: INTERIOR ELEVATIONS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

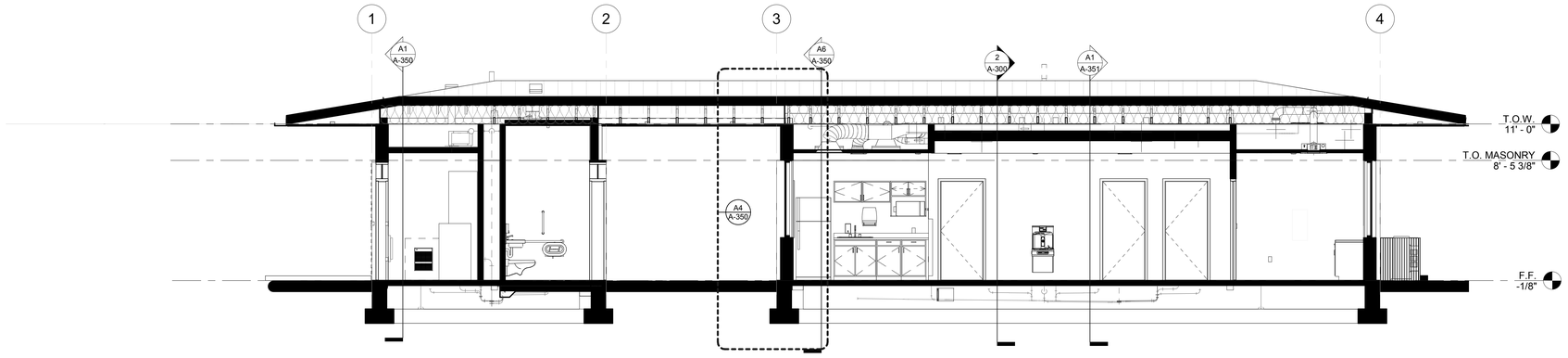
BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	JTL
CHECKED	Checker
DATE	2/10/19

SHEET: A-250



1 EAST WEST BUILDING SECTION

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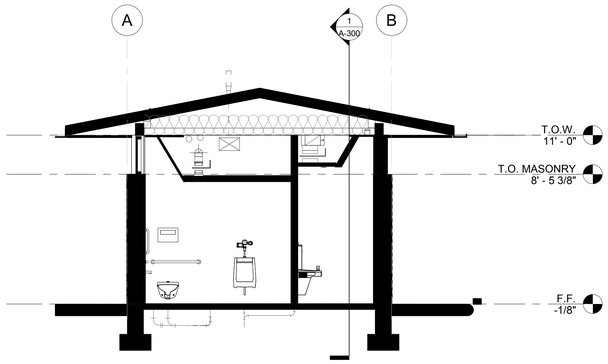

2 NORTH/SOUTH BUILDING SECTION

SCALE : 1/4" = 1'-0"

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STATE OF WASHINGTON

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PROJECT NAME & ADDRESS
SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

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PROJ. NO. 2018-10258
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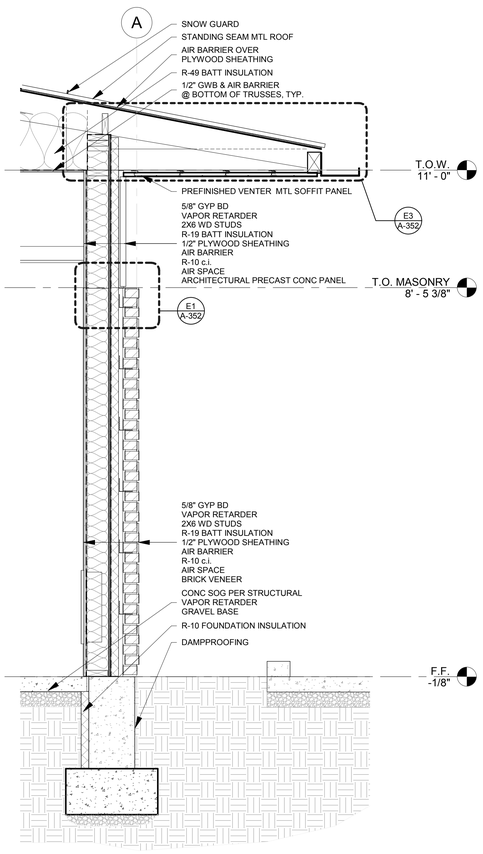
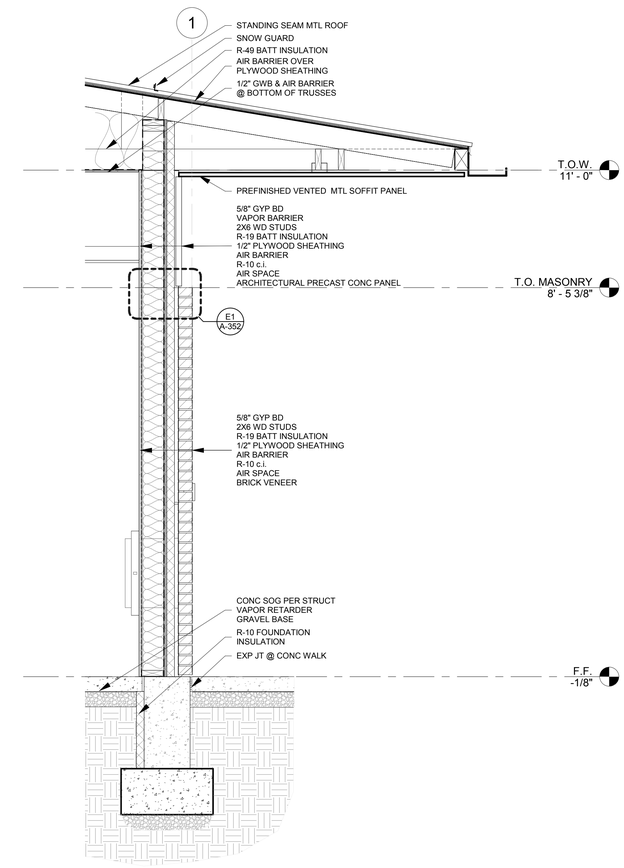
SHEET A-300



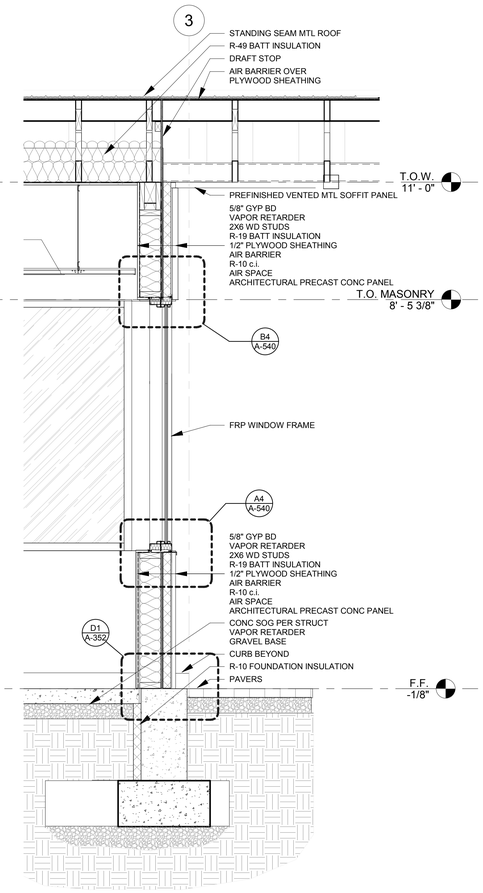
A1 WALL SECTION @ STAGGERED BRICK VENEER

SCALE : 3/4" = 1'-0"



A2 WALL SECTION @ PREMANUFACTURED CONC PANEL

SCALE : 3/4" = 1'-0"



A4 WALL SECTION @ CORNER WINDOW

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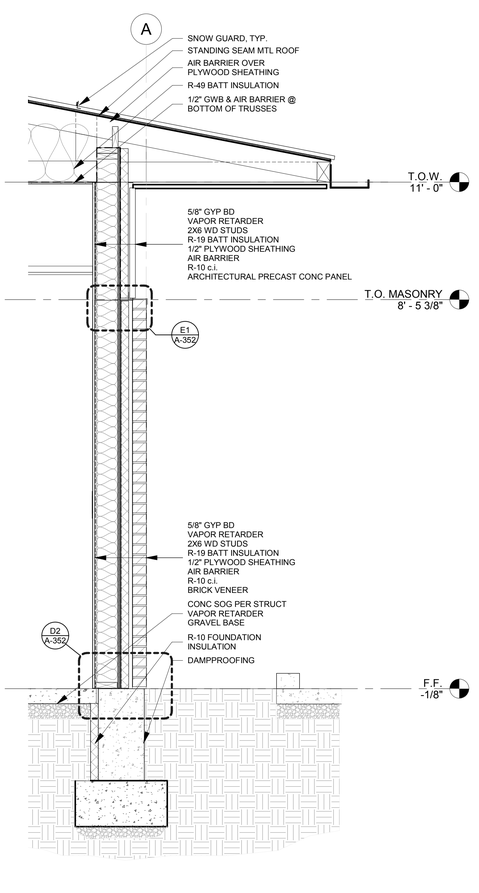

A6 WALL SECTION @ BRICK VENEER

SCALE : 3/4" = 1'-0"

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WALL SECTIONS

SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

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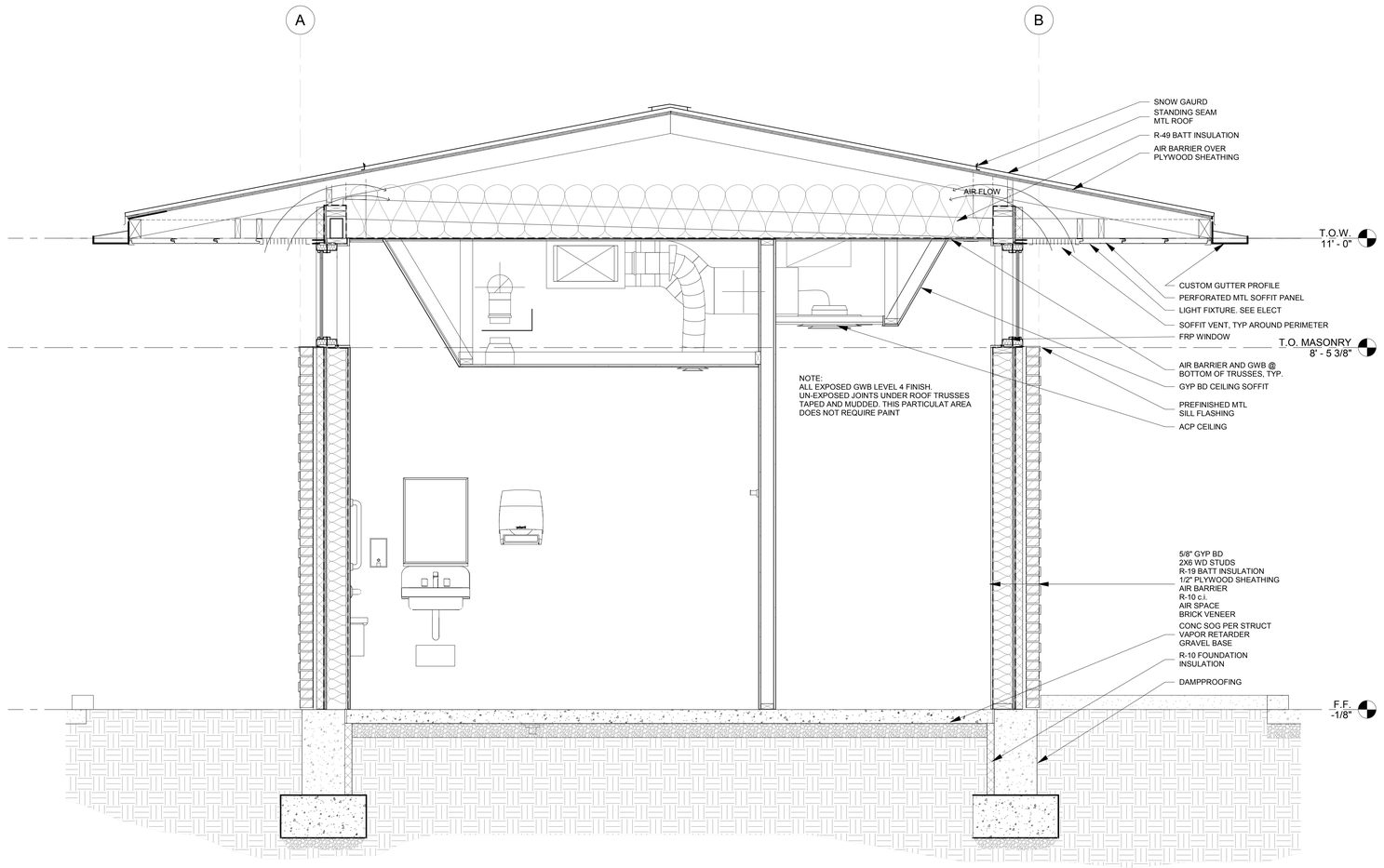
A-350

SHEET



A1 WALL SECTION @ CLERESTORY WINDOW

SCALE : 3/4" = 1'-0"

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STAMP

WALL SECTIONS

SHEET TITLE

SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

PROJECT NAME & ADDRESS

CLIENT INFORMATION

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

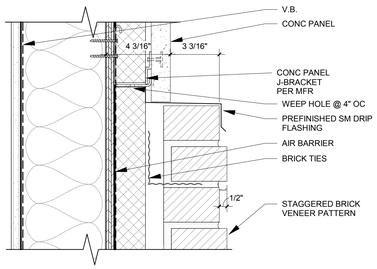
REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN JTL
CHECKED Checker
DATE 2/10/19

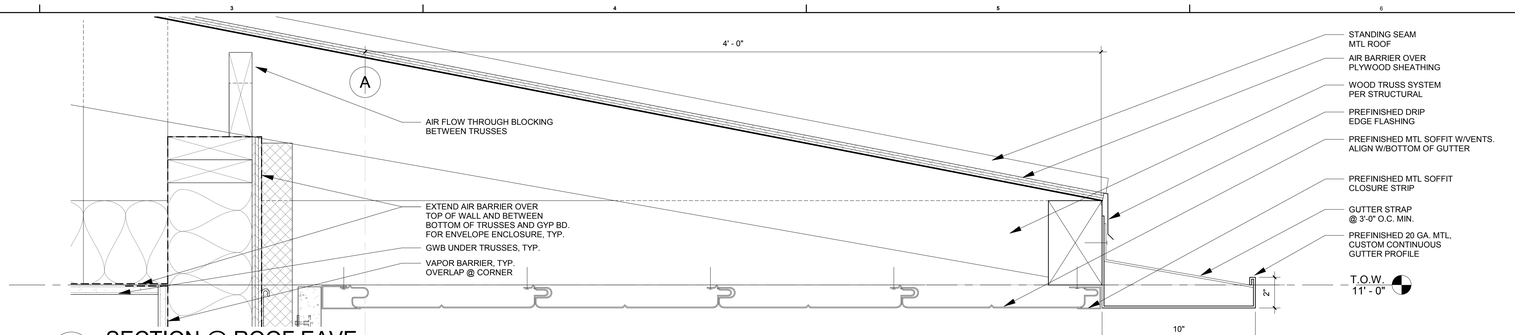
A-351

SHEET



E1 SECTION @ STAGGERED BRICK VENEER

SCALE : 3" = 1'-0"



E3 SECTION @ ROOF EAVE

SCALE : 3" = 1'-0"

D1 PRECAST CONC PANEL @ FLOOR

SCALE : 3" = 1'-0"

D2 BRICK VENEER @ FLOOR

SCALE : 3" = 1'-0"

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4575 REGISTERED ARCHITECT
JEFFREY JOHN WARNER
STATE OF WASHINGTON

STAMP

SECTION DETAILS

SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

SHEET TITLE

PROJECT NAME & ADDRESS

CLIENT INFORMATION
BID SET

Spokane Transit Authority
1230 W. Boone Avenue. Spokane, Washington 99201

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
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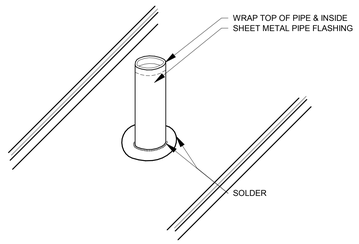
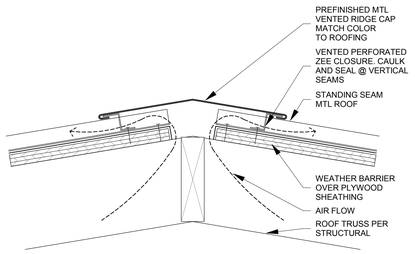
CHECKED	Checker
DATE	2/10/19
SHEET	A-352



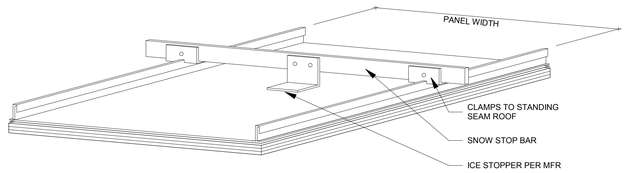
E1 VENT FLASHING

SCALE : 1 1/2" = 1'-0"



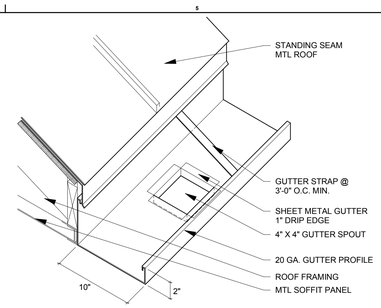
E2 VENTED ROOF RIDGE

SCALE : 3" = 1'-0"



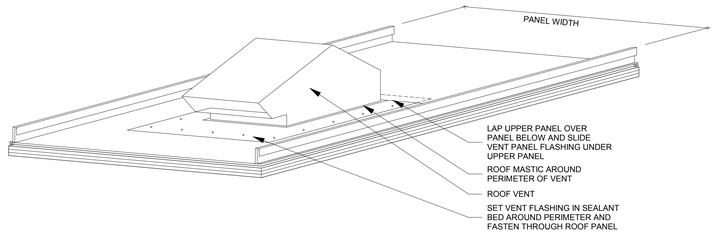
E3 SNOW GUARDS

SCALE : 3" = 1'-0"



E5 GUTTER SPOUT

SCALE : 1 1/2" = 1'-0"



D1 ROOF VENT DETAIL

SCALE : 3" = 1'-0"

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SHEET TITLE: ROOF DETAILS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: BID SET

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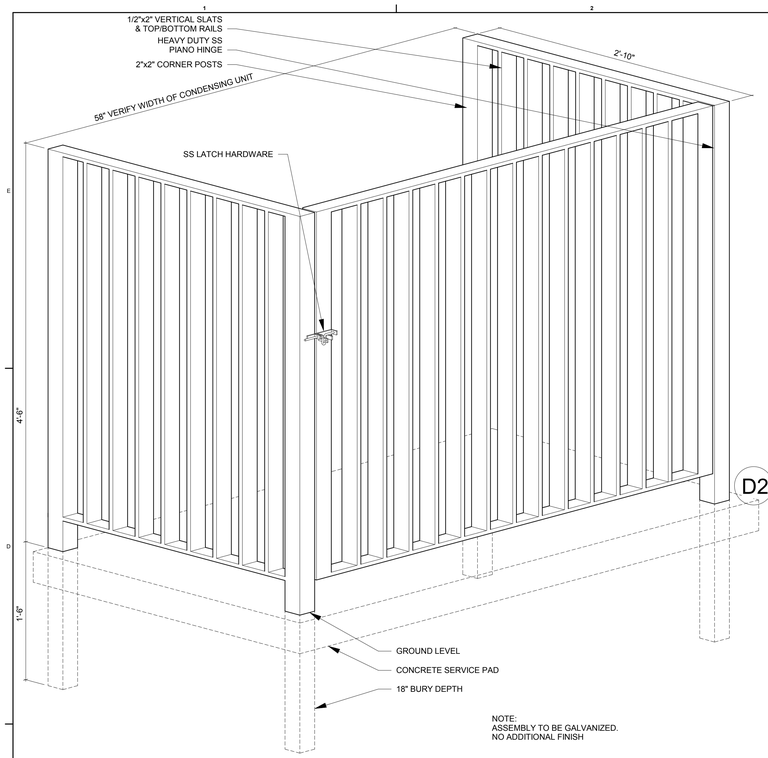
1230 W. Boone Avenue. Spokane, Washington 99201

REVISIONS

No.	Date	By

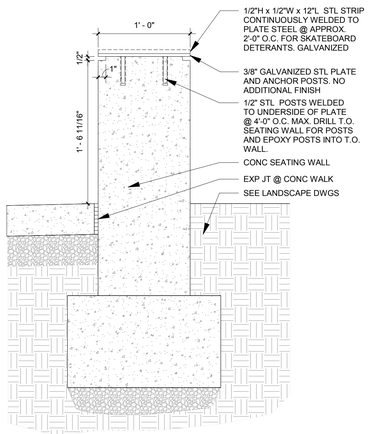
PROJ. NO.	2018-10258
DRAWN	JTL
CHECKED	Checker
DATE	2/10/19
SHEET	A-500



NOTE:
ASSEMBLY TO BE GALVANIZED.
NO ADDITIONAL FINISH

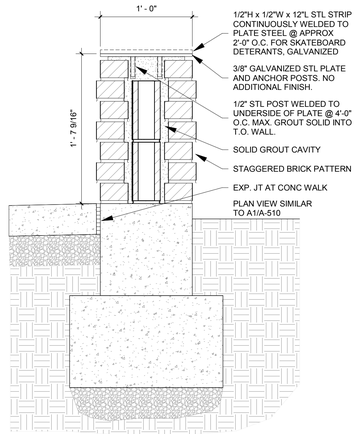
D1 CONDENSER ENCLOSURE

SCALE : 1 1/2" = 1'-0"



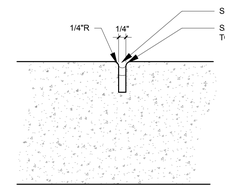
D2 TYPICAL SEATING WALL

SCALE : 1 1/2" = 1'-0"



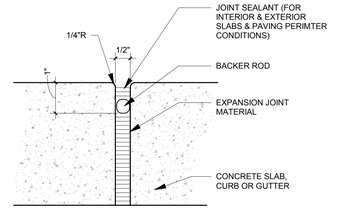
D3 SEATING WALL @ BUS SHELTERS

SCALE : 1 1/2" = 1'-0"



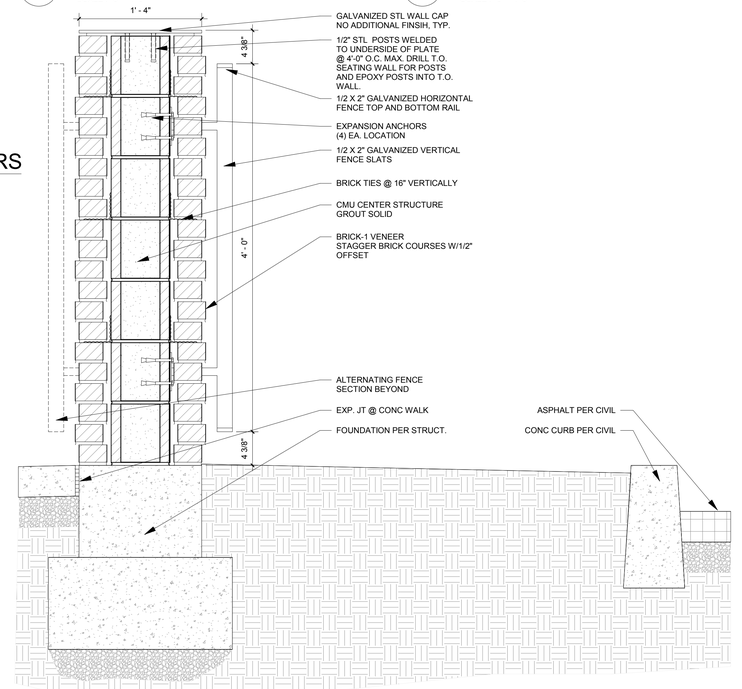
E5 CONC CONTROL JOINT

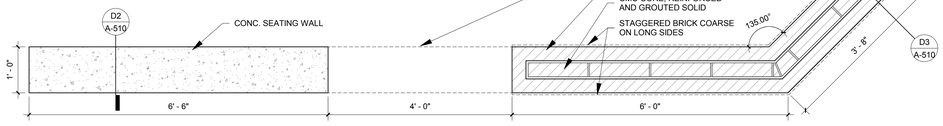
SCALE : 6" = 1'-0"



E6 CONC EXPANSION JOINT

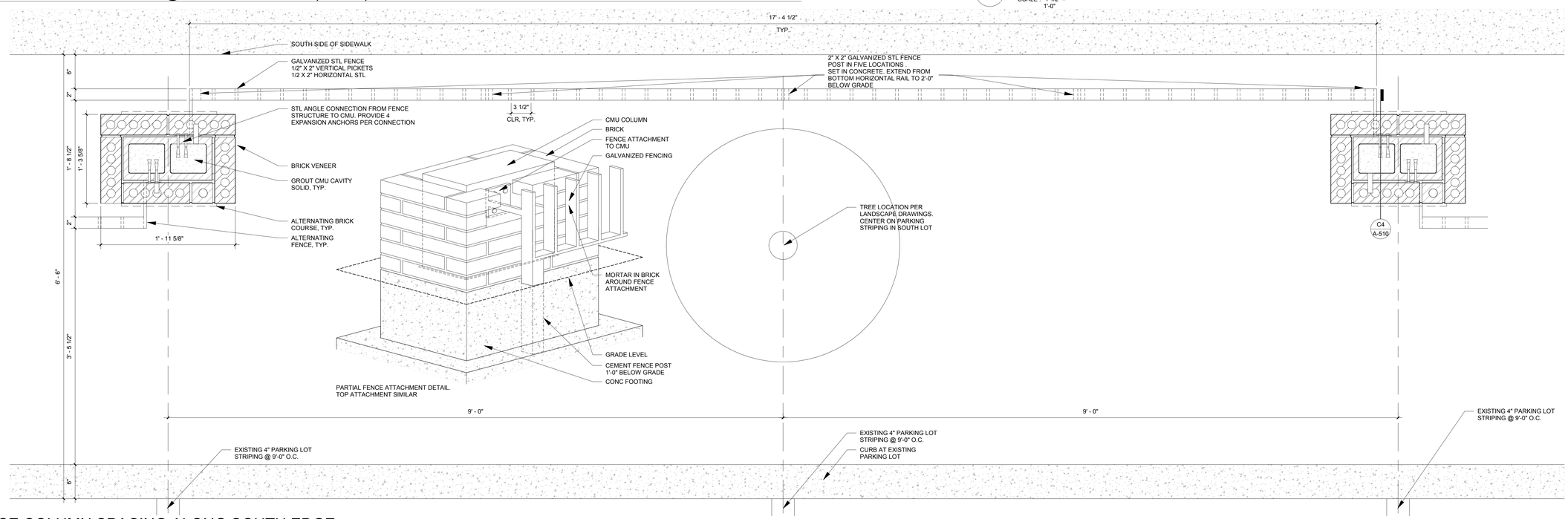
SCALE : 6" = 1'-0"





C1 PLAN VIEW OF SEATING WALL @ BUS SHELTERS. (QTY 5)

SCALE : 3/4" = 1'-0"



A1 TYP. FENCE COLUMN SPACING ALONG SOUTH EDGE

SCALE : 1 1/2" = 1'-0"

C4 MASONRY FENCE POST SECTION, TYP.

SCALE : 1 1/2" = 1'-0"

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SHEET TITLE: EXTERIOR DETAILS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

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REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
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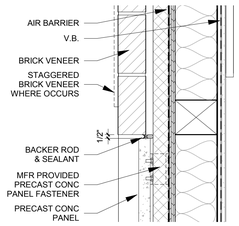
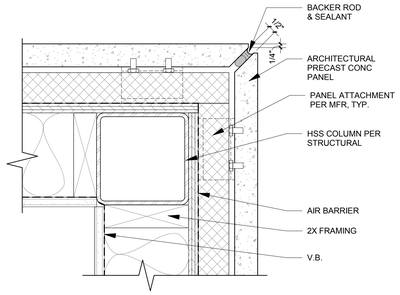
DATE	2/10/19

SHEET: A-510



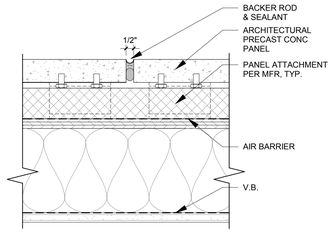
E1 BRICK-CONC PNL TRANSITION

SCALE : 1 1/2" = 1'-0"



E2 PRECAST CONC PNL @ CORNER

SCALE : 3" = 1'-0"



E3 PRECAST CONC PNL JOINT

SCALE : 3" = 1'-0"

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JEFFREY JOHN WARNER
STATE OF WASHINGTON

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PLAN DETAILS

SHEET TITLE

SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

PROJECT NAME & ADDRESS

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Spokane Transit Authority
1230 W. Boone Avenue. Spokane, Washington 99201

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No.	Date	By

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A-520

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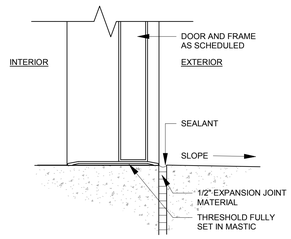
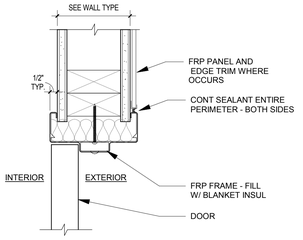


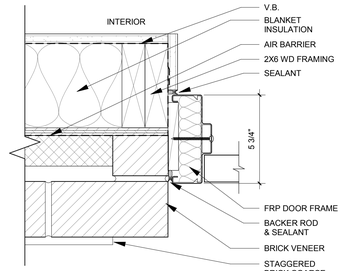
E1 DOOR THRESHOLD- EXTERIOR

SCALE : 3" = 1'-0"



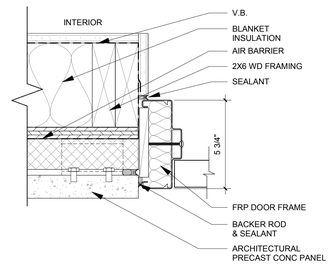
E2 FRP JAMB (HEAD SIM)

SCALE : 3" = 1'-0"



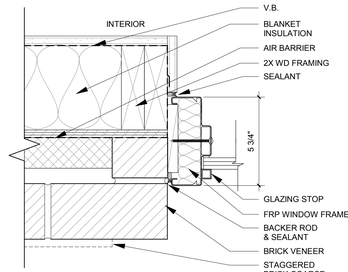
E3 FRP DOOR JAMB @ BRICK

SCALE : 3" = 1'-0"



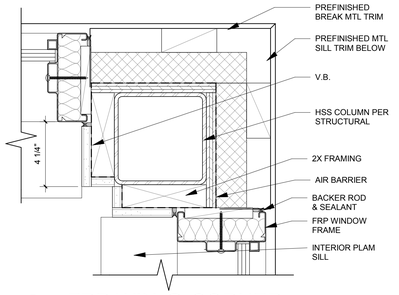
E4 FRP DR JAMB @ CONC PANEL

SCALE : 3" = 1'-0"



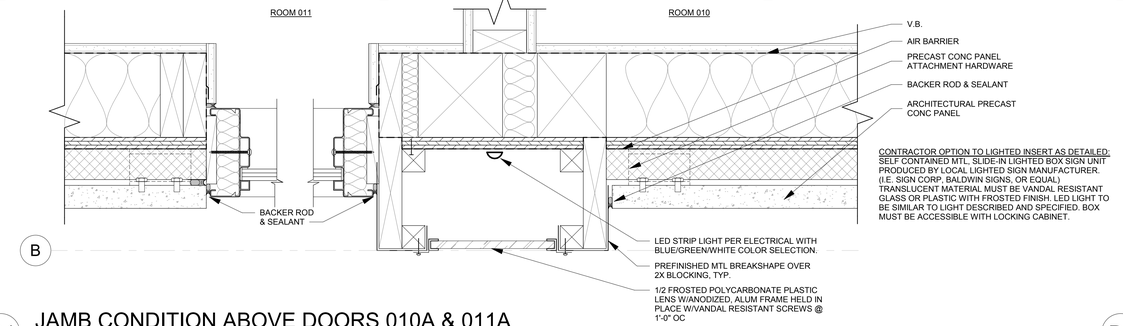
E5 FRP WIN JAMB @ BRICK

SCALE : 3" = 1'-0"



E6 FRP WIN @ CORNER

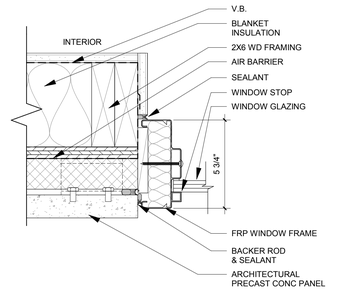
SCALE : 3" = 1'-0"



CONTRACTOR OPTION TO LIGHTED INSERT AS DETAILED:
SELF CONTAINED MTL, SLIDE-IN LIGHTED BOX SIGN UNIT PRODUCED BY LOCAL LIGHTED SIGN MANUFACTURER. (I.E. SIGN CORP, BALDWIN SIGNS, OR EQUAL) TRANSLUCENT MATERIAL MUST BE VANDAL RESISTANT GLASS OR PLASTIC WITH FROSTED FINISH. LED LIGHT TO BE SIMILAR TO LIGHT DESCRIBED AND SPECIFIED. BOX MUST BE ACCESSIBLE WITH LOCKING CABINET.

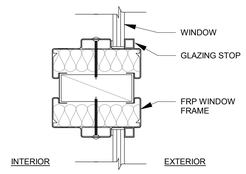
D1 JAMB CONDITION ABOVE DOORS 010A & 011A

SCALE : 3" = 1'-0"



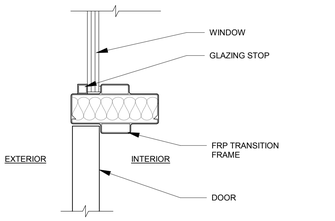
D4 FRP WIN JAMB @ CONC PANEL

SCALE : 3" = 1'-0"



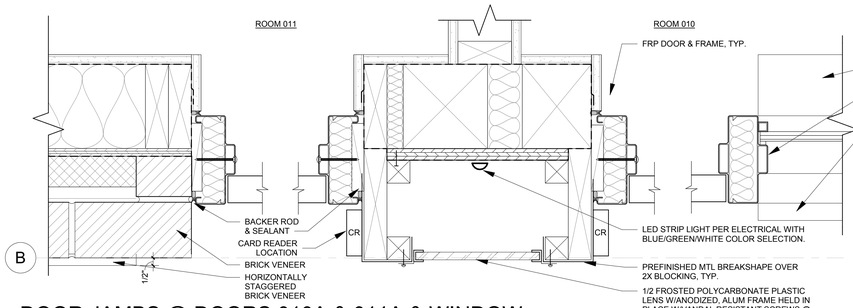
D5 FRP WIN/WIN HORIZ MULLION

SCALE : 3" = 1'-0"



D6 FRP DOOR/WIN HORIZ MULLION

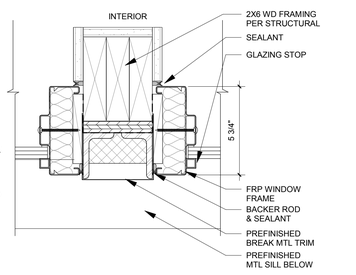
SCALE : 3" = 1'-0"



CONTRACTOR OPTION TO LIGHTED INSERT AS DETAILED:
SELF CONTAINED MTL, SLIDE-IN LIGHTED BOX SIGN UNIT PRODUCED BY LOCAL LIGHTED SIGN MANUFACTURER. (I.E. SIGN CORP, BALDWIN SIGNS, OR EQUAL) TRANSLUCENT MATERIAL MUST BE VANDAL RESISTANT GLASS OR PLASTIC WITH FROSTED FINISH. LED LIGHT TO BE SIMILAR TO LIGHT DESCRIBED AND SPECIFIED. BOX MUST BE ACCESSIBLE WITH LOCKING CABINET.

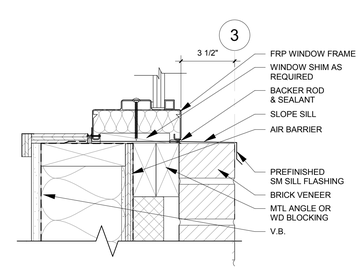
C1 DOOR JAMBS @ DOORS 010A & 011A & WINDOW

SCALE : 3" = 1'-0"



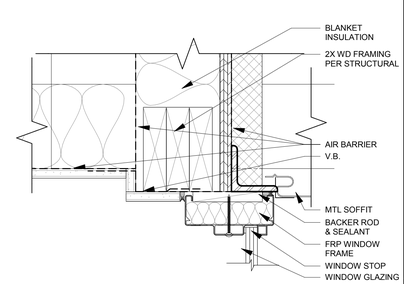
C4 TRANSOM WIN JAMB ABOVE SILL

SCALE : 3" = 1'-0"



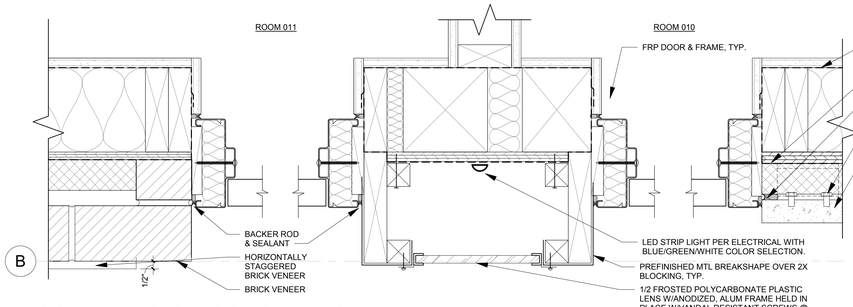
C5 WINDOW SILL @ BRICK

SCALE : 3" = 1'-0"



C6 TRANSOM WINDOW HEAD

SCALE : 3" = 1'-0"



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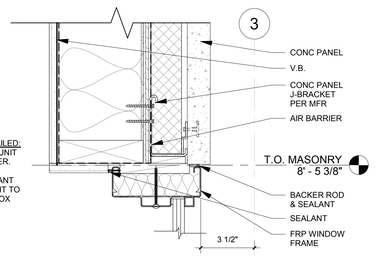
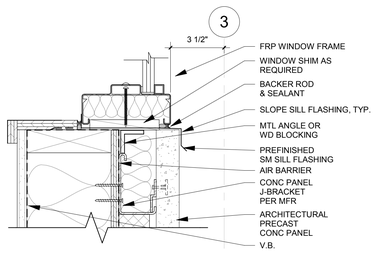
B1 DOOR JAMBS @ DOORS 010A & 011A

SCALE : 3" = 1'-0"



B4 WINDOW HEAD @ CONC PANEL

SCALE : 3" = 1'-0"



A4 WINDOW SILL @ CONC PANEL

SCALE : 3" = 1'-0"

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STAMP

SHEET TITLE: WINDOW AND DOOR DETAILS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
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INTERIOR DETAILS

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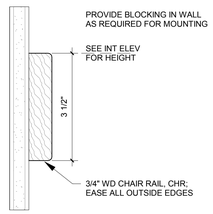
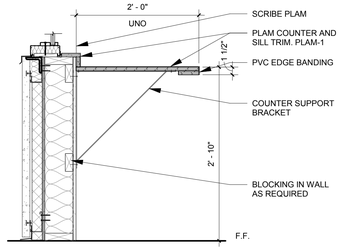
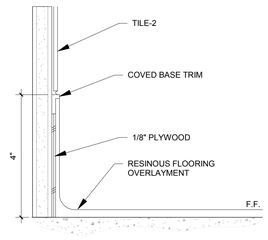


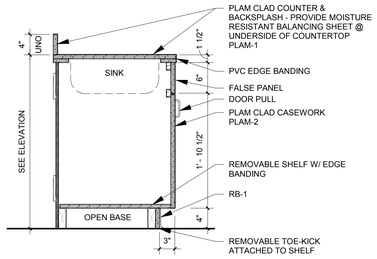
B1 CHAIR RAIL
SCALE : 6" = 1'-0"



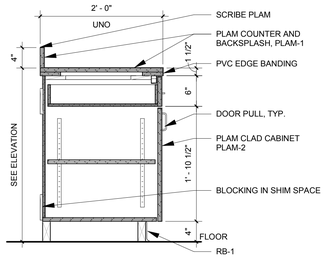
B2 COUNTER
SCALE : 1" = 1'-0"



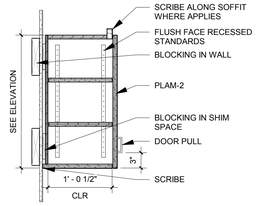
B3 COVED BASE @ TILE
SCALE : 6" = 1'-0"



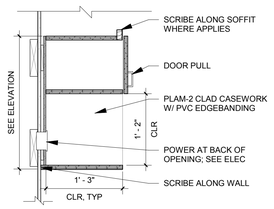
A1 BASE CAB @ SINK
SCALE : 1" = 1'-0"



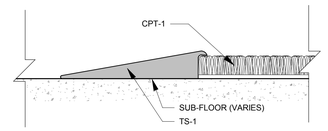
A2 BASE CAB W/ SINGLE DRAWER
SCALE : 1" = 1'-0"



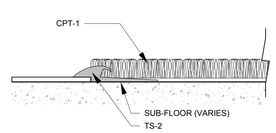
A3 UPPER CAB TYP
SCALE : 1" = 1'-0"



A4 UPPER CAB @ MICROWAVE
SCALE : 1" = 1'-0"



A5 INT TRANS - CONC TO EM
SCALE : 12" = 1'-0"



A6 TRANSITION-EM TO RESILIENT
SCALE : 12" = 1'-0"

PROJ. NO.	2018-10258
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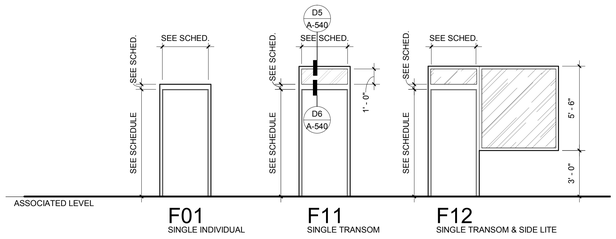
CHECKED	Checker
DATE	2/10/19

A-550

SHEET

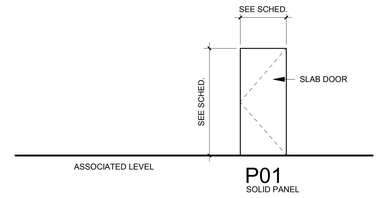
DOOR SCHEDULE

ROOM NAME	MARK	DOOR						FRAME						UL	HDW	KEYNOTE	NOTES
		NO OF LEAFS	SIZE (NOM) WIDTH	HEIGHT	THK	DOOR TYPE	MATL	TYPE	MATL	DETAIL HEAD	JAMB	SILL	HEAD HEIGHT				
ELECT	001A	2	6' - 0"	7' - 0"	2"	P01	FRP	F11	FRP	E4/A-540	E4/A-540	E1/A-540	2"		08		
JAN/MECH	002A	1	3' - 0"	7' - 0"	2"	P01	FRP	F11	FRP	E4/A-540	E4/A-540	E1/A-540	2"		01		
TR	003A	1	3' - 0"	7' - 0"	2"	P01	FRP	F11	FRP	D5/A-540	E3/A-540	E1/A-540	2"		02		
TR	004A	1	3' - 0"	7' - 0"	2"	P01	FRP	F11	FRP	D5/A-540	E3/A-540	E1/A-540	2"		02		
TR	006A	1	3' - 0"	7' - 0"	2"	P01	FRP	F01	FRP	E2/A-540	E2/A-540		2"		03		
TR	007A	1	3' - 0"	7' - 0"	2"	P01	FRP	F01	FRP	E2/A-540	E2/A-540		2"		03		
JAN/MECH	008A	1	3' - 0"	7' - 0"	2"	P01	FRP	F01	FRP	E2/A-540	E2/A-540		2"		04		
IT	009A	1	3' - 0"	7' - 0"	2"	P01	FRP	F01	FRP	E2/A-540	E2/A-540		2"		05		
SECURITY	010A	1	3' - 0"	7' - 0"	2"	P01	FRP	F11	FRP	B4/A-540	REF 4/A-200	E1/A-540	2"		07		
SECURITY	010B	1	3' - 0"	7' - 0"	2"	P01	FRP	F01	FRP	E2/A-540	E2/A-540		2"		06		
HALL	011A	1	3' - 0"	7' - 0"	2"	P01	FRP	F12	FRP	D5/A-540	REF 4/A-200	E1/A-540	2"		07		



1 DOOR FRAME ELEVATIONS

SCALE : 1/4" = 1'-0"



2 DOOR PANEL ELEVATIONS

SCALE : 1/4" = 1'-0"

COFFMAN ENGINEERS
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6500 Mineral Drive, Suite 101
Coeur d'Alene, Idaho 83815
208.676.8292

alscarchitects.com

4575 REGISTERED ARCHITECT JEFFREY JOHN WARNER STATE OF WASHINGTON

STAMP

SHEET TITLE: DOOR SCHEDULE & FRAME TYPES

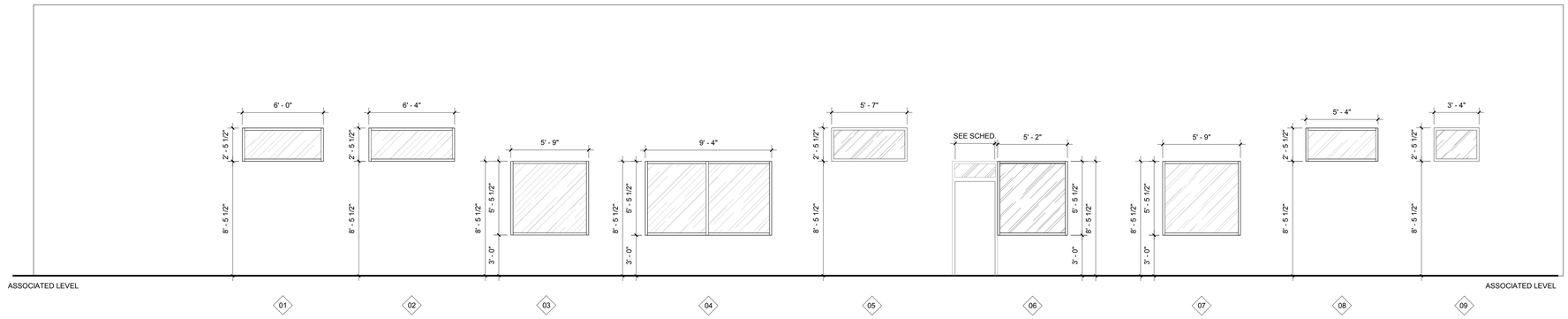
PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: BID SET
Spokane Transit Authority
1230 W. Boone Avenue. Spokane, Washington 99201

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	JTL
CHECKED	Checker
DATE	2/10/19
SHEET	A-600



1 GLAZING ELEVATIONS

SCALE : 1/4" = 1'-0"

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4575 REGISTERED ARCHITECT JEFFREY JOHN WARNER STATE OF WASHINGTON

STAMP

GLAZING SCHEDULE

SHEET TITLE

SCC TRANSIT CENTER
1810 N.GREENE STREET
SPOKANE, WA. 99217

PROJECT NAME & ADDRESS

CLIENT INFORMATION

BID SET

Spokane Transit Authority
1230 W. Boone Avenue. Spokane, Washington 99201

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	JTL
CHECKED	Checker
DATE	2/10/19
SHEET	A-601

GENERAL

NOTES:

(1) SPECIFIC TO LOCATION INDICATED.

A. NOTE APPLIES TO ENTIRE SHEET.

XX-X DESIGNATOR HAS SCHEDULED VALUES, SEE MECHANICAL SCHEDULES.

XX-X PLUMBING FIXTURE TAG

(E) EXISTING

(N) NEW

POINT OF CONNECTION (POC)

LINETYPES

EXISTING (THIN)

NEW (MEDIUM)

EXISTING TO BE DEMOLISHED

(T)x THERMOSTAT, ADJACENT NUMBER INDICATES TERMINAL UNIT CONTROLLED

(H) HUMIDISTAT

(S) SENSOR

(CO2) CO2 SENSOR

(SD) DUCT SMOKE DETECTOR

(SP) DUCT STATIC PRESSURE

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SHOW ALL OFFSETS IN DUCTWORK AND PIPING. COORDINATE THIS WORK WITH THE WORK OF OTHER TRADES AND PROVIDE ALL NECESSARY OFFSETS.
2. ALL MECHANICAL EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR FOR THIS CONSTRUCTION. ALL EQUIPMENT SHALL BE COMPLETE, INSTALLED, AND FULLY FUNCTIONAL PRIOR TO FINAL ACCEPTANCE OF THE WORK. MATERIALS OR EQUIPMENT SPECIFIED TO BE "FURNISHED BY "OTHERS" SHALL BE FURNISHED BY THE GENERAL CONTRACTOR AND PROCURED FROM SOURCES SPECIFIED BY THE CONTRACT DOCUMENTS.
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
4. VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE REQUIRED CLEARANCE FOR MECHANICAL EQUIPMENT WITH GENERAL CONTRACTOR.
5. DUCT DIMENSIONS ARE FOR SHEET METAL SIZES, OR CLEAR OPENING INSIDE LINED DUCT.
6. DIFFUSER AND GRILLE DUCT BRANCH CONNECTIONS TO MAIN DUCTS SHALL INCLUDE MANUAL VOLUME DAMPER.
7. ALL SUPPLY, RETURN, AND EXHAUST AIR DUCTS SHALL HAVE THE TRANSVERSE JOINTS, AND LONGITUDINAL SEAMS SHALL BE SEALED WITH APPROPRIATE SEALER.
8. PROVIDE SEISMIC RESTRAINT OF ALL MECHANICAL SYSTEMS AND EQUIPMENT AS REQUIRED BY INTERNATIONAL BUILDING CODE.
9. REFER TO PROJECT MANUAL (SPECIFICATIONS) FOR ADDITIONAL REQUIREMENTS. PLANS AND SPECIFICATIONS SHALL BE TAKEN TOGETHER. PROVIDE ALL WORK CALLED FOR IN EITHER.
10. WORK SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS UNLESS CONTRACT DOCUMENTS ARE MORE STRINGENT.
11. ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS, AND FEES REQUIRED IN CONNECTION WITH THIS INSTALLATION.
12. FURNISH ALL EQUIPMENT, MATERIALS, LABOR, TOOLS, ETC., REQUIRED FOR THE INSTALLATION OF THE COMPLETE AND OPERATIONAL SYSTEM. ALL EQUIPMENT AND MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED AND OF THE HIGHEST QUALITY.
13. DO NOT ALLOW ANY WORK TO BE COVERED UP OR ENCLOSED UNTIL INSPECTED, TESTED, AND APPROVED BY OWNER'S REPRESENTATIVE, CONTRACTORS QC OR AUTHORITY HAVING JURISDICTION.
14. PIPES AND WIRING IN PLENUM SHALL BE RATED FOR PLENUM USE. PVC, ABS, AND PLASTIC PIPING IS NOT ACCEPTABLE IN PLENUM APPLICATIONS.
15. ALL DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE.
16. FIRE CAULK ALL PIPE PENETRATIONS OF RATED WALLS, SEE ARCHITECTURAL FOR WALL RATINGS. INSTALL IN ACCORDANCE WITH FIRE-CAULK MANUFACTURER'S ANSI/UL SYSTEM DETAIL FOR EACH CONDITION. SUBMIT INSTALLATION DETAILS FOR EACH CONDITION APPLICABLE TO PROJECT.

2015 WA ENERGY CODE NOTES

1. DOCUMENTS DESCRIBED IN SECTION C103.6 SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 180 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
2. HVAC EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN TABLES C403.2.3.
3. PROVIDE DEADBAND BETWEEN HEATING/COOLING SPACE SENSOR SETPOINTS OF 5 DEGREES AS REQUIRED BY SECTION C403.2.4.1.2.
4. HVAC SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS CAPABLE OF ACCOMPLISHING SETBACK OR SHUTDOWN DURING UNOCCUPIED PERIOD AS REQUIRED BY SECTION C403.2.4.2.1.
5. ALL DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS FOR CONSTRUCTION OF GALVANIZED DUCTWORK. ALL DUCTWORK SHALL BE SEALED AS REQUIRED BY SECTION C403.2.9.
6. ALL DUCTWORK SHALL BE INSULATED AS REQUIRED BY SECTION C403.2.9 AND AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
7. ALL PIPING SHALL BE INSULATED AS REQUIRED BY SECTION C403.2.10 AND AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
8. REHEATING AIR SERVING INDIVIDUAL ZONES SHALL BE LIMITED TO THE CONDITIONS DESCRIBED IN SECTION C403.4.4, AND AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
9. SUPPLY AIR SHALL BE AUTOMATICALLY RESET AS REQUIRED IN SECTION C403.4.4.5.
10. SERVICE HEATING WATER EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN TABLE C404.2.
11. DOMESTIC HOT WATER CIRCULATION PUMPS SHALL BE SHUT DOWN DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION C404.6.
12. HVAC SYSTEMS SHALL BE BALANCED AS REQUIRED BY SECTION C408.2.2. PROVIDE A WRITTEN REPORT PER SECTION C408.2.5.3.
13. PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AS REQUIRED BY SECTION C408.2.2.1.
14. PROVIDE FUNCTIONAL TESTING OF HVAC EQUIPMENT PER SECTION C408.2.3.
15. HVAC CONTROL SYSTEMS SHALL BE TESTED PER SECTION C408.2.3.2
16. PROVIDE FUNCTIONAL TESTING OF ALL ECONOMIZERS PER SECTION C408.2.3.3.
17. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C408.2.5.2. AT THE MINIMUM MANUALS SHALL INCLUDE:
    - A. SUBMITTAL DATA
    - B. OPERATION AND MAINTENANCE DATA FOR EQUIPMENT.
    - C. NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
    - D. HVAC AND SERVICE HOT WATER CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS.
    - E. NARRATIVE OF HOW SYSTEM IS INTENDED TO OPERATE.
18. COMMISSIONING SHALL BE PROVIDED AND A REPORT SHALL BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION C408. PROVIDE A CX PLAN PER C408.2.1. FUNCTIONAL PERFORMANCE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION C408.2.3. PROVIDE WRITTEN REPORT PER C408.2.5.4.
19. DOCUMENTATION REQUIREMENTS DESCRIBED IN 16 AND 17 SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATION OF OCCUPANCY.
20. PROVIDE ALL OUTSIDE AIR INTAKES, (EXCEPT SMOKE RELIEF) EXHAUST AND RELIEF OUTLETS WITH DAMPERS WHICH CLOSE AUTOMATICALLY WHEN SYSTEM IS OFF OR DURING POWER FAILURE, PER SECTION C403.2.4.3.

MECHANICAL SHEET INDEX

ABBREVIATIONS

A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
ACM	ASBESTOS CONTAINING MATERIALS
AF	AIR FLOW SWITCH
AFF	ABOVE FINISH FLOOR
AG	ABOVE GROUND
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINED
ARCH	ARCHITECT OR ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AV	ACID VENT
AW	ACID WASTE
AWT	AVERAGE WATER TEMPERATURE
BA	BREATHING AIR
BAS	BUILDING AUTOMATION SYSTEM
BB	BASEBOARD
BF	BYPASS FEEDER
BFF	BELOW FINISHED FLOOR
BG	BELOW GROUND
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BV	BALANCING VALVE
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COG	CLEANOUT TO GRADE
CU	COPPER
CUH	CABINET UNIT HEATER
CW	COLD WATER
CWC	COLD WATER CIRCULATION
DB	DRY BULB
ø	DIAMETER OR PHASE
DEMO	DEMOLISH
DN	DOWN
DPS	DIFFERENTIAL PRESSURE SWITCH
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	ETHYLENE GLYCOL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
F	FIRE PROTECTION
FCO	FLOOR CLEANOUT
F.D.	FIRE DAMPER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY OR FUSIBLE OIL SAFETY
FP	FIRE PUMP
FPC	FIRE PUMP CONTROLLER
FS	FLOOR SINK
FSD	FIRE SMOKE DAMPER
FT	FEET OR FLASH TANK
FTR	FINNED TUBE RADIATION
G	LOW PRESSURE GAS
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWB	GYPSUM WALL BOARD
HB	HOSE BIBB
HC	HEATING COIL
HL	HIGH LIMIT
HP	HORSEPOWER
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HR	HOUR / HOSE REEL (COMPRESSED AIR)
HTG	HEATING
HGR	HEATING GLYCOL RETURN
HGS	HEATING GLYCOL SUPPLY
HWC	HOT WATER CIRCULATION
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HW	HOT WATER
HX	HEAT EXCHANGER
I.E.	INVERT ELEVATION
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
KH	KICKSPACE HEATER
LAT	LEAVING AIR TEMPERATURE
LF	LINEAL FOOT
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSANDS BTU PER HOUR
MFR	MANUFACTURER
MG	MEDICAL GAS
MIN	MINIMUM OR MINUTES
MPG	MEDIUM PRESSURE GAS
MPR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MS	MOTOR STARTER
MUA	MAKE UP AIR
N.C.	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OW	OILY WASTE
O2	MEDICAL OXYGEN
PG	PROPYLENE GLYCOL
PH	PHASE
PLCS	PLACES
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PRESSURE/TEMPERATURE
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
REQD	REQUIRED
RL	RAIN LEADER
RO	REVERSE OSMOSIS
R.O.	ROUGH OPENING
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTION PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SL	SOUND LINING
SP	STATIC PRESSURE
SW	SOCKET WELDED
T, TEMP	TEMPERATURE
TAB	TEST, ADJUST & BALANCE
TB	TERMINAL BOX
THD	THREADED
TP	TRAP PRIMER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UF	UNDER FLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB
V	VENT OR VOLTS
VAC	VOLTAGE ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VTR	VENT THRU ROOF
W	WASTE
WB	WET BULB
WI	WITH
WC	WATER CLOSET
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
YCO	YARD CLEANOUT

RESPONSIBILITY MATRIX

WORK OR EQUIPMENT	FURNISH	INSTALL	LOW VOLTAGE WIRING/TUBE	LINE POWER
BAS LOW VOLTAGE AND COMMUNICATION WIRING	BAS	BAS	BAS	N/A
CONTROLLERS FOR VRF FAN COILS ABD CU	BAS	MC	BAS	BAS
CONTROLLER FOR HRV	BAS	MC	BAS	BAS
BAS CONDUITS AND RACEWAY	BAS	BAS	BAS	BAS
AUTOMATIC DAMPERS	BAS	MC	N/A	N/A
MANUAL VALVES	MC	MC	N/A	N/A
AUTOMATIC VALVES	BAS	MC	BAS	BAS
PIPE INSERTION DEVICES AND TAPS INCLUDING THERMOWELLS, FLOW AND PRESSURE STATIONS.	BAS	MC	BAS	BAS
BAS CURRENT SWITCHES.	BAS	BAS	BAS	N/A
BAS CONTROL RELAYS	BAS	BAS	BAS	N/A
CONCRETE AND/OR INERTIA EQUIPMENT PADS AND SEISMIC BRACING	MC	MC	N/A	N/A
BAS B-BCS, A/ACS, EQUIPMENT, HOUSINGS, AND ENCLOSURES.	BAS	BAS	BAS	BAS
SMOKE DETECTORS	EC	MC	BAS & EC	EC
EF FLOW CONTROL STATION AND TRANSDUCER	BAS	MC	BAS	NA
FIRE ALARM SHUTDOWN RELAY INTERLOCK WIRING AND STATUS CONTACTS	EC	EC	EC	EC
HRV-1 DAMPER, ACTUATOR, AND ACTUATOR WIRING	EM	EM	EM	EM
EF DAMPER, ACTUATOR, AND ACTUATOR WIRING	EM	EM	EM	EM
AHU-1 SUPPLY FAN FLOW CONTROL STATION	EM	EM	EM	NA
HUMIDITY SPACE SENSOR	BAS	BAS	BAS	BAS
STARTERS, HOA SWITCHES	EC	EC	N/A	EC
CONTROL DAMPER ACTUATORS	BAS	BAS	BAS	BAS

ABBREVIATIONS

CONTROLS CONTRACTOR	BAS
OWNER	OWN
MECHANICAL CONTRACTOR	MC
ELECTRICAL CONTRACTOR	EC
EQUIPMENT MANUFACTURER	EM
NOT APPLICABLE	N/A
GENERAL CONTRACTOR	GC

AIR DISTRIBUTION LEGEND

DUCT SIZE IN INCHES, FIRST SIZE IS SIDE SHOWN

18x12 — 18ø ROUND; 18x12 RECTANGLE; 18/12 OVAL

SHEET METAL DUCT

ACOUSTIC LINED DUCT

R DUCT RISE IN DIRECTION OF ARROW

D DUCT DROP IN DIRECTION OF ARROW

18ø ROUND DUCT IN INCHES

20x12 / 18ø CHANGE IN DUCT SIZE AND/OR SHAPE

VOLUME DAMPER

FIRE DAMPER

SMOKE DAMPER

FIRE/SMOKE DAMPER

M MOTORIZED DAMPER

FLEX DUCT

AIR FLOW DIRECTION

1" THICK DUCT LINING

2" THICK DUCT LINING

2" THICK MCGILL ACOUSTI-K-27 LINING

SUPPLY AIR (S/A) - CROSS

RECTANGULAR DUCT TURNED UP/SECTION

ROUND DUCT TURNED UP/SECTION

RECTANGULAR DUCT TURNED DOWN/HIDDEN SECTION

ROUND DUCT TURNED DOWN/HIDDEN SECTION

RETURN AIR (R/A)
OUTSIDE AIR (O/A) - SLASH

RECTANGULAR DUCT TURNED UP/SECTION

ROUND DUCT TURNED UP/SECTION

RECTANGULAR DUCT TURNED DOWN/HIDDEN SECTION

ROUND DUCT TURNED DOWN/HIDDEN SECTION

EXHAUST AIR (E/A) - WYE

RECTANGULAR DUCT TURNED UP/SECTION

ROUND DUCT TURNED UP/SECTION

RECTANGULAR DUCT TURNED DOWN/HIDDEN SECTION

ROUND DUCT TURNED DOWN/HIDDEN SECTION

X / CFM AIR TERMINAL IDENTIFICATION

SUPPLY AIR (S/A) TERMINAL

RETURN AIR (R/A) TERMINAL

EXHAUST AIR (E/A) TERMINAL

LINEAR SLOT DIFFUSER

OPENING IN WALL ABOVE CEILING

GRILLE, REGISTER, OR OPEN DUCT

(SEE AIR INLET/OUTLET SCHEDULE FOR ADDITIONAL INFORMATION)

GENERAL HVAC NOTES

THESE NOTES ARE TO BE APPLIED TO ALL HVAC DRAWINGS WITHIN THIS SET AND ANY ADDENDUMS, RFI'S, OR SUBSEQUENT DOCUMENTATION PERTAINING TO THIS PROJECT.

1. SHEET METAL DUCTWORK AND COMPONENTS INCLUDING HANGING, SEALING, PLENUMS, & ACCESSORIES SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA STANDARDS FOR HVAC DUCT CONSTRUCTION, NFPA 90A, & 90B STANDARDS.
2. ALL DUCTWORK OPENINGS SHALL BE COVERED DURING CONSTRUCTION. ALL DAMPERS TO BE SET TO BE FULLY OPEN DURING CONSTRUCTION PRIOR TO BALANCING.
3. PROVIDE UL LISTED FLEXIBLE CONNECTION ON INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT. FLEX CONNECTION SHALL CONFORM TO LOCAL BUILDING CODE PROVISIONS.
4. CONTRACTOR TO PROVIDE TRANSITION TO CONNECT TO ALL MECHANICAL EQUIPMENT.
5. DUCT DIMENSIONS SHOWN ARE INSIDE SHEET METAL DIMENSIONS OR CLEAR OPENING INSIDE LINED DUCT. THE FIRST NUMBER REPRESENTS THE WIDTH OF DUCT IN PLAN VIEW.
6. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. COORDINATE WITH OTHER TRADES AND PROVIDE ALL NECESSARY OFFSETS.
7. ALL DUCTWORK TO HAVE ACOUSTICAL LINER WHERE INDICATED.
8. PROVIDE DUCT LINER IN SUPPLY AND RETURN DUCTS WITHIN 15 FT OF AIR HANDLERS.
9. ALL EXTERIOR AND ROOF MOUNTED DUCTWORK SHALL BE PROVIDED WITH DUCT LINER, DUCT WRAP, AND ALUMINUM ALL WEATHER JACKETING.
10. PROVIDE DUCT LINER IN THE FIRST 15 FT OF SUPPLY DUCTWORK DOWNSTREAM FROM SOUND ATTENUATORS AND IN THE FIRST 15 FT OF RETURN DUCTWORK UPSTREAM OF SOUND ATTENUATORS.
11. PROVIDE MINIMUM OF 5 FT LINED RECTANGULAR DUCT DOWNSTREAM OF ALL TERMINAL UNITS.
12. PROVIDE 1" THICK DUCT LINER IN ALL TRANSFER AIR DUCTWORK UNLESS NOTED OTHERWISE.
13. ALL ELBOWS SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE, OR SHALL HAVE TURNING VANES WHERE INDICATED ON PLANS. NO SQUARE THROAT OR ZERO RADIUS ELBOWS ALLOWED.
14. ALL DUCT BRANCH CONNECTIONS TO DIFFUSER OR GRILLES, TO OR FROM MAIN DUCTS SHALL INCLUDE MANUAL VOLUME DAMPERS. ALL SPIN-IN FITTINGS SHALL BE CONICAL, RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS.
15. PROVIDE CONCEALED DAMPER REGULATORS OR ACCESS DOORS FOR ALL MANUAL VOLUME DAMPERS LOCATED THAT ARE INACCESSIBLE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
16. 24"x24" ACCESS DOORS SHALL BE PROVIDED FOR ALL MECHANICAL EQUIPMENT LOCATED ABOVE GYPSUM BOARD CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
17. INSTALL COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS WHERE DUCTS PENETRATE FIRE RATED WALLS. DAMPER FIRE RATING SHALL BE 1-1/2 HOUR UNLESS NOTED OTHERWISE. COORDINATE DAMPER ACCESS WITH GENERAL CONTRACTOR AND ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR.
18. A MINIMUM OF 1 FT TO A MAXIMUM OF 6 FT OF FLEXIBLE DUCT SHALL BE USED TO CONNECT GRILLES AND DIFFUSERS, UNLESS OTHERWISE NOTED. MAXIMUM FLEX OFFSET IS ½ DUCT LENGTH, WITH NO BENDS GREATER THAN 45°.
19. FLEX AND DUCTWORK SHALL NOT BE CONNECTED DIRECTLY TO DIFFUSER OR GRILLES UNLESS INDICATED IN DRAWINGS. DIFFUSER / GRILLE BOXES WITH LINER AND PERFORATED DIFFUSER PLATES SHALL BE USED.
20. PROVIDE DIFFUSER AND GRILLE FRAMES COMPATIBLE WITH ARCHITECTURAL CEILING TYPES AND COORDINATE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING LAYOUT.
21. ALL DUCTWORK VISIBLE THROUGH RETURN OR SUPPLY GRILLES TO BE PAINTED FLAT BLACK.
22. ALL SUPPLY, RETURN AND EXHAUST AIR DUCTS SHALL HAVE THE TRANSVERSE JOINTS, LONGITUDINAL SEAMS AND DUCT WALL PENETRATIONS SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS "A") AND SHALL CONFORM TO LOCAL BUILDING CODES.
23. COORDINATE LOCATIONS OF ALL ROOM THERMOSTATS AND/OR ROOM TEMPERATURE SENSORS WITH ARCHITECTS PRIOR TO INSTALLATION.
24. BALANCE AIR SYSTEM TO QUANTITIES SHOWN, AND SUBMIT A COPY OF THE BALANCE REPORT TO THE ENGINEER FOR REVIEW.

PIPING LEGEND

GATE VALVE

NEEDLE VALVE

BALL VALVE

GLOBE VALVE

PLUG VALVE

STOP COCK

OS & Y GATE VALVE

AUTOMATIC CONTROL VALVE (PNEUMATIC)

3-WAY AUTO. CONTROL VALVE (PNEUMATIC)

M MOTORIZED (M) OR SOLENOID (S) VALVE

M 3-WAY MOTORIZED (M) OR SOLENOID (S) VALVE

BUTTERFLY VALVE

FUSIBLE OIL SAFETY VALVE

CHECK VALVE

SPRING CHECK VALVE

BACKFLOW PREVENTER

BALANCE VALVE

A BALANCE VALVE (AUTOMATIC)

PRESSURE REDUCING VALVE

PRESSURE REGULATOR

PRESSURE RELIEF VALVE

T&P RELIEF VALVE

BASKET STRAINER

STRAINER

STRAINER WITH BLOW DOWN (1)

HOSE BIBB

HOSE THREAD DRAIN VALVE (1)

HOSE THREAD DRAIN BALL VALVE (1)

(1) INDICATES TO PROVIDE W/ END CAP.

HOSE QUICK DISCONNECT

BLIND FLANGE

FLANGES

FIRE DEPT. CONNECTION

UNION

REDUCER, CONCENTRIC (DETAIL VIEW)

REDUCER

REDUCER, ECCENTRIC

PT PLUG

THERMOWELL

THERMOMETER (LIQUID IN GLASS)

(T) DIAL THERMOMETER

PRESSURE GAUGE W/ COCK

PRESSURE GAUGE W/ COCK & SIPHON

AIR VENT — C - COIN; M - MANUAL; A - AUTOMATIC; H - HIGH VOLUME

S=2% PIPE SLOPE DIRECTION DOWN

FLOW DIRECTION

EXPANSION LOOP

EXPANSION JOINT

EXPANSION GUIDE

ANCHOR

FLEX COUPLING

PUMP (ARROWHEAD INDICATES FLOW DIRECTION)

(M) FLOW METER

PIPE UP

PIPE DOWN

TEE UP

TEE DOWN

ELBOW

TEE

CAP

WALL CLEANOUT

FLOOR CLEAN OUT

YARD CLEAN OUT

FLOOR SINK

FLOOR DRAIN

ROOF OVERFLOW DRAIN

ROOF DRAIN

WATER HAMMER ARRESTOR (PLAN)

WATER HAMMER ARRESTOR (ELEV.)

EMERGENCY EYEWASH/SHOWER

EMERGENCY EYEWASH

SHOWER

COLD WATER, CW

HOT WATER, HW

HOT WATER CIRCULATION, HWC

140° HOT WATER

140 HW

140° HOT WATER CIRCULATION

140 HWC

UNION

TW TEMPERED WATER

V VENT

TP TRAP PRIMER LINE

W SANITARY WASTE

GW GREASE WASTE

BGW BELOW GRADE WASTE

PW PUMPED WASTE

PC PUMPED CONDENSATE

RD RAIN DRAIN

ORD OVERFLOW RAIN DRAIN

SD STORM DRAIN

A COMPRESSED AIR

D INDIRECT DRAIN

F FIRE PROTECTION MAIN

G NATURAL GAS

GENERAL PLUMBING NOTES

THESE NOTES ARE TO BE APPLIED TO ALL PLUMBING DRAWINGS WITHIN THIS SET AND ANY ADDENDUMS, RFI'S, OR SUBSEQUENT DOCUMENTATION PERTAINING TO THIS PROJECT.

1. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE, OPERATIONAL PLUMBING SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.
2. THE ENTIRE INSTALLATION SHALL CONFORM TO THE MOST RECENTLY ADOPTED REQUIREMENTS OF THE BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID. CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS THAT THE PROJECT OWNER HAS.
3. PRIOR TO FABRICATION AND INSTALLATION THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING WORK WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, GENERAL CONTRACTOR, AND ANY CONTRACTOR HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
4. THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR PLUMBING EQUIPMENT AND PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL DRAWINGS.
5. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
6. PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE LATEST ACCEPTED VERSION OF THE IBC. COORDINATE WITH ARCHITECTURAL PLANS.
7. PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ALL PIPING.
8. PROVIDE WATER HAMMER ARRESTORS (SHOCK ABSORBERS) AT ALL PIPE LOCATIONS WHERE VALVE CLOSURES (SUCH AS FLUSH VALVES) MAY CAUSE WATER HAMMER OR RESULT IN EXCESSIVE PIPE VIBRATION OR MOVEMENT.
9. PROVIDE ALL CLEANOUTS AS REQUIRED BY CODE, INCLUDING BUT NO LIMITED TO ALL SINKS, URINALS AND END OF RUNS.

CODES & AUTHORITIES HAVING JURISDICTION (AHJ)

THIS LIST IS FOR REFERENCE ONLY AND MAY NOT CONTAIN ALL CODES REQUIRED FOR THIS PROJECT OR LIST ALL AUTHORITIES HAVING JURISDICTION. CONTACT STATE, COUNTY AND CITY BUILDING DEPARTMENT FOR A FULL AND ACCURATE LIST.

- 2016 WASHINGTON STATE ENERGY CODE
- 2015 INTERNATIONAL BUILDING CODE
- 2015 UNIFORM PLUMBING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- CODE AMENDMENTS SPECIFIC TO THE LOCAL & REGIONAL JURISDICTIONS
- STATE, COUNTY, CITY CODE AGENCIES & OFFICIALS

DESIGN CONDITIONS

LOCATION	SPOKANE, WA
OUTDOORS	SUMMER 93°F DB / 63°F WB
	WINTER 4°F DB
INDOOR	COOLING 75°F
	HEATING 70°F
VENTILATION	PER ASHRAE 62.1-2013
ELEVATION	2353 FT ABOVE SEA LEVEL

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STAMP

SHEET TITLE: MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

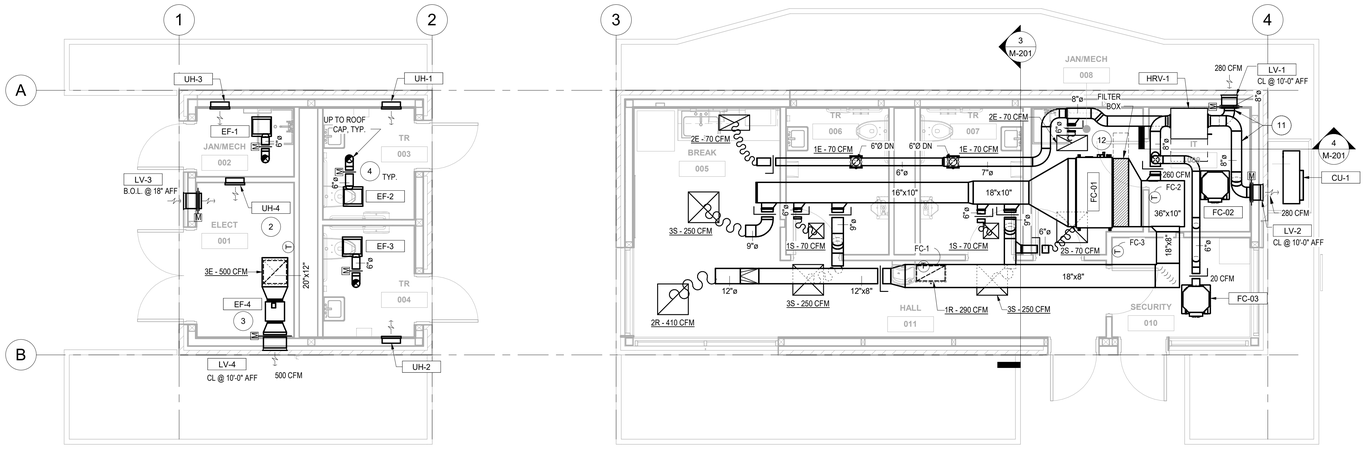
BID SET

REVISIONS

No.	Date	By

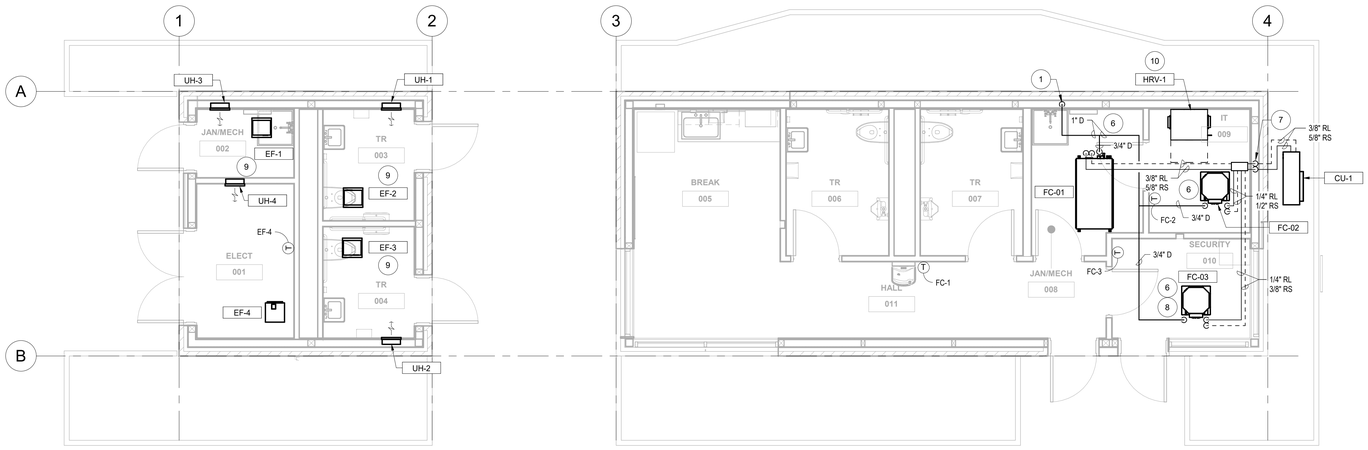
PROJ. NO. 2018-10258
DRAWN DJP
CHECKED TAH
DATE 02/10/2019

SHEET M-001



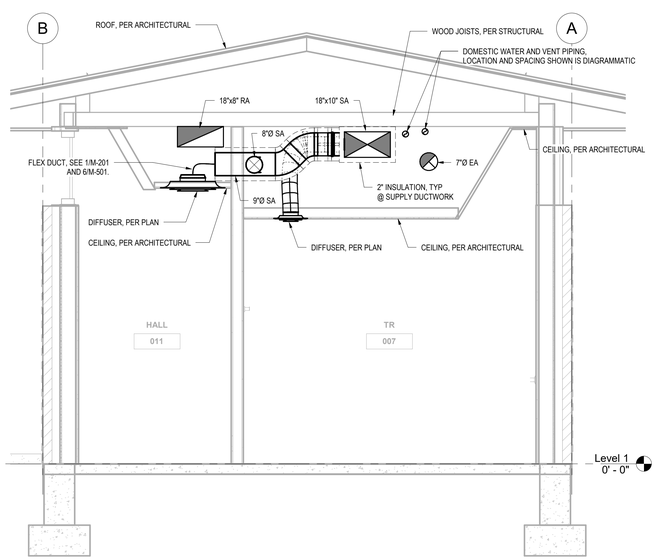
1 HVAC PLAN

SCALE : 1/4" = 1'-0"



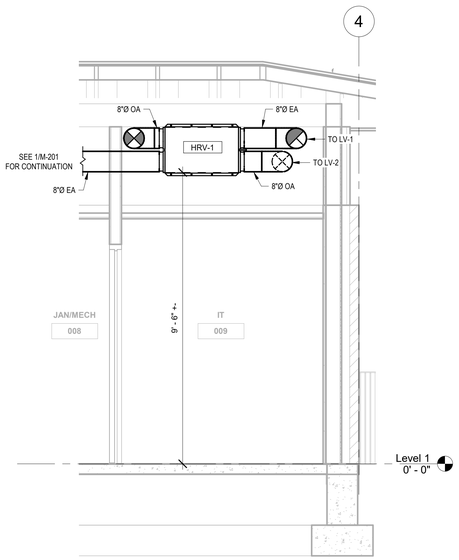
2 MECHANICAL PIPING PLAN

SCALE : 1/4" = 1'-0"



3 DUCTWORK SECTION

SCALE : 1/2" = 1'-0"



4 HRV-1 SECTION

SCALE : 1/2" = 1'-0"

GENERAL NOTES

A. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, RETURN, AND EXHAUST DUCT BRANCH TAKEOFFS IN ADDITION TO THOSE SHOWN. PROVIDE REMOTE DAMPER OPERATORS IN HARD LID CEILINGS WHERE DAMPERS ARE NOT ACCESSIBLE.

B. MAINTAIN ACCESS TO ALL CONTROL, FIRE, AND FIRE-SMOKE DAMPERS FOR MAINTENANCE PURPOSES. PROVIDE ACCESS PANELS WHERE NECESSARY.

C. VERIFY THERMOSTAT PLACEMENT WITH OWNER PRIOR TO ROUGH-IN. COORDINATE PLACEMENT WITH ELECTRICAL CONTRACTOR AND LIGHT SWITCH LOCATIONS. THERMOSTAT SHALL BE AT SAME ELEVATION AS LIGHT SWITCHES.

D. REFER TO CONDENSATE DRAIN DETAILS FOR SLOPE AND ROUTING OF CONDENSATE LINES.

E. ALL OUTDOOR AIR SUPPLY, EXHAUST OPENING RELIEF OUTLETS AND AIRSIDE ECONOMIZER OPENINGS SHALL BE PROVIDED WITH CLASS 1 MOTORIZED DAMPER.

F. FIRE CAULK ALL PIPE PENETRATIONS OF RATED WALLS, SEE ARCHITECTURAL.

G. CONTRACTOR SHALL COORDINATE COIL CONNECTION AND CONTROL SIDE (LEFT OF RIGHT HAND) WITH MANUFACTURER PRIOR TO ORDERING.

H. KEEP TERMINAL UNIT ACCESS PANEL CLEARANCE AREAS FREE FROM PIPING AND OTHER OBSTRUCTIONS.

I. REFRIGERANT PIPING SIZES SHOWN FOR COORDINATION PURPOSES. CONFIRM REFRIGERANT PIPE SIZES SHOWN WITH THE LATEST VRF SYSTEM PIPING SCHEMATIC FROM THE VENDOR, AND CORRECT IF REQUIRED PRIOR TO INSTALLATION.

J. PIPING LAYOUT IS SHOWN SCHEMATICALLY. ROUTE REFRIGERATION AND DRAIN PIPING EFFICIENTLY AS POSSIBLE, ALLOWING CLEARANCES FOR EQUIPMENT OPERATION AND SERVICE.

K. SLOPE ALL CONDENSATE PIPING AT 1% IN DIRECTION OF FLOW, MIN.

L. INSULATE ALL REFRIGERANT PIPING PER SPEC SECTION 232300.

M. CONDENSATE IS PUMPED AT EACH FAN COIL. SEE DETAIL 5/M-502 FOR TYPICAL FAN COIL CONNECTION

N. SLOPE REFRIGERATION LINES BACK TOWARD CONDENSING UNITS TO AID OIL RETURN, USE DOUBLE SUCTION RISERS FOR RISERS HIGHER THAN 6'.

O. INSTALL VRF CU'S, FAN COILS, PIPING, AND CONTROLS AS PER OEM MANUAL. INSTALLATION TO MEET ALL LOCAL CODES.

P. INSTALL FAN COILS AND ENERGY RECOVERY VENTILATOR WITH MINIMUM 3' CLEARANCE ON SERVICE SIDE FOR MAINTENANCE.

Q. DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SHOW ALL OFFSETS IN DUCTWORK AND PIPING. COORDINATE THIS WORK WITH THE WORK OF OTHER TRADES AND PROVIDE ALL NECESSARY OFFSETS.

KEY NOTES

1 ROUTE CONDENSATE DRAIN TO MOP SINK, PROVIDE MIN 1" AIR GAP ON DRAIN DISCHARGE. SEE 10/M-502.

2 UNIT HEATER TO ENERGIZE AT 50°F. SEE ELECTRICAL ROOM EXHAUST FAN CONTROL DIAGRAM, 6/M-701.

3 SEE 12/M-501 AND 5/M-701 FOR MOUNTING AND CONTROL DETAILS.

4 ROOF PENETRATION SHALL BE LOCATED IN FLAT PORTION OF STANDING SEAM METAL ROOF. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR. SEE E1/A-500 AND 9/M-502.

5 BRANCH TEE/SELECTOR. SEE 3/M-701 PIPING SCHEDULE FOR MODEL NUMBER, PIPING, AND CONTROLS. INSTALL BRANCH SELECTOR AND PIPING IN ACCORDANCE WITH OEM INSTALLATION MANUAL.

6 INSTALL THREADED PLUG CLEANOUT ON DRAIN LINES, SEE 5/M-502.

7 REFRIGERANT PIPING DOWN IN EXTERIOR WALL CHASE. SEE ARCHITECTURAL. SLEEVE, INSULATE, AND SEAL ALL BUILDING PIPING PENETRATIONS SIMILAR TO 2/M-502.

8 INSTALL THREADED PLUG CLEANOUT AT END OF CONDENSATE LINE.

9 INTERLOCK EXHAUST FAN WITH TOILET AND JANITOR/MECH ROOM LIGHTING TO ENERGIZE WHEN LIGHTS ARE ENERGIZED. WIRE FAN THRU SPEED SWITCH (IN CHASE). PROVIDE RIGID DUCTING TO EACH RESTROOM AND JAN/MECH ROOM.

10 INTERLOCK HRV OPERATION WITH FAN COIL OPERATION, SEE 4/M-701.

11 INSTALL LOW LEAK MOTORIZED DAMPERS AND INSULATE DUCTING ON HRV WALL SIDE CONNECTIONS TO INSULATION VALUE EQUAL TO WALL.

12 INSTALL FILTER BOX IN LOCATION WHERE ACCESS PANEL HAS CLEARANCE FOR REPLACEMENT OF 14"x20"x2" AIR FILTER.

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STAMP

SHEET TITLE: MECHANICAL PLANS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

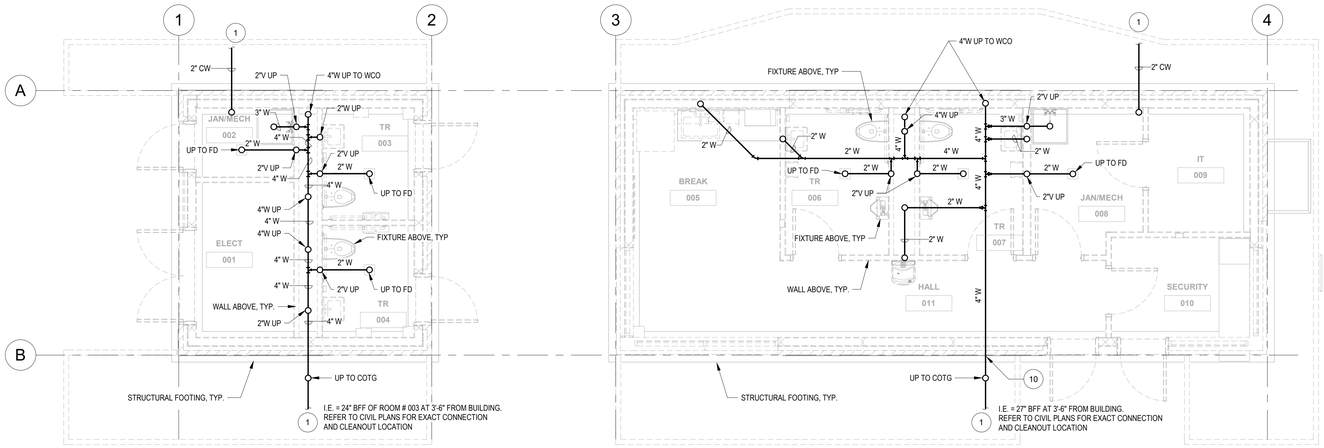
BID SET

REVISIONS

No.	Date	By

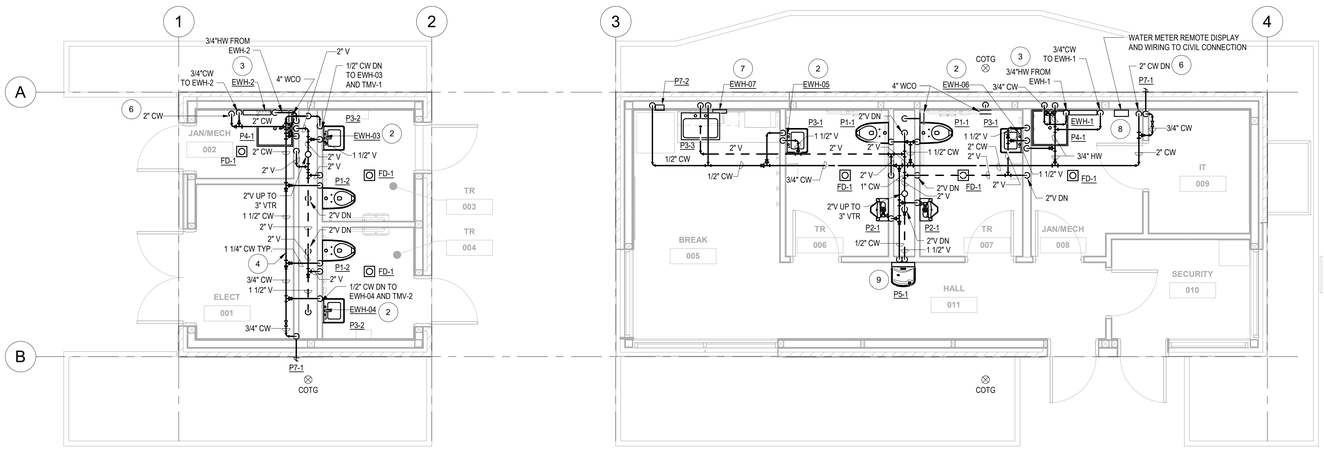
PROJ. NO. 2018-10258
DRAWN DJP
CHECKED TAH
DATE 02/10/2019

SHEET M-201



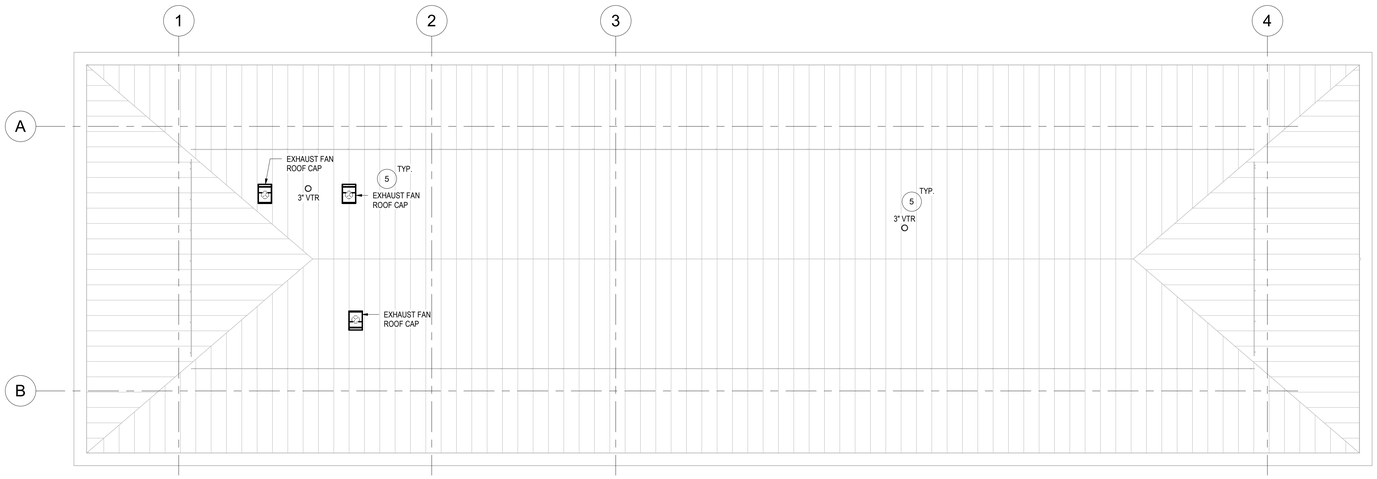
1 UNDERSLAB PLUMBING PLAN

SCALE : 1/4" = 1'-0"



2 PLUMBING PLAN

SCALE : 1/4" = 1'-0"



3 MECHANICAL ROOF PLAN

SCALE : 1/4" = 1'-0"

GENERAL PLUMBING NOTES

A. PLUMBING PLANS SHOW GENERAL ROUTING AND ARRANGEMENT OF PIPING.

B. CONTRACTOR SHALL COORDINATE ROUTING AND SPACE REQUIREMENTS OF PIPING WITH STRUCTURAL MEMBERS AND ALL OTHER TRADES INCLUDING HVAC, FIRE PROTECTION, ELECTRICAL, AND COMMUNICATIONS/DATA. OFFSET PIPING AROUND DUCTWORK AND OTHER OBSTACLES WHERE REQUIRED.

C. ALL PIPING SHALL BE SLEEVED AND SEALED THROUGH ANY STRUCTURE OR CONCRETE.

D. SLOPE ALL BELOW GRADE SANITARY OR DRAIN PIPING AT 1/4" PER FOOT, MIN. UNO.

E. CONTRACTOR TO BLOCK OUT PORTION OF CONCRETE STEM WALLS WHERE REQUIRED TO ACCOMMODATE PIPING.

F. COORDINATE PLUMBING VENT LOCATIONS WITH MECHANICAL. LOCATE PLUMBING VENTS 10'-0" MIN. FROM ANY BUILDING OPENING OR HVAC AIR INTAKE.

G. WASTE AND VENT PIPING SHALL BE NO-HUB CAST IRON, SCHEDULE 40 PVC DWV, OR SCHEDULE 40 ABS DWV. EXPOSED WASTE AND VENT PIPING SHALL BE CAST IRON.

H. SEE ARCHITECTURAL FOR FIXTURE MOUNTING HEIGHTS.

I. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING OF BRANCH CLOSEST TO FIXTURE. TRAP ARMS MAY BE SIZED THE SAME AS FIXTURE OUTLET. UNDERGROUND PIPING SHALL BE NO LESS THAN 2".

J. TRAP PRIMER NOT SHOWN FOR CLARITY. SEE FLOOR PLANS FOR WATER AND DRAIN LOCATIONS, AND PLUMBING FIXTURE SCHEDULE FOR PRIMER REQUIREMENTS.

K. INSTALL WATER HAMMER ARRESTORS IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS AND GUIDELINES.

L. PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES AND WATER HAMMER ARRESTORS.

M. PROVIDE AND INSTALL CLEANOUTS AT ALL SINKS AND URINALS.

N. PROVIDE ISOLATION VALVES AT ACCESSIBLE LOCATIONS FOR ALL WATER PIPING BRANCHES, INCLUDING ALL HOSE BIBBS AND RESTROOMS

O. ALL PIPING SERVING FIXTURES ALONG EXTERIOR WALLS SHALL BE ROUTED ON INTERIOR SIDE OF INSULATION.

P. DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SHOW ALL OFFSETS IN DUCTWORK AND PIPING. COORDINATE THIS WORK WITH THE WORK OF OTHER TRADES AND PROVIDE ALL NECESSARY OFFSETS.

KEY NOTES

1 SEE CIVIL FOR CONTINUATION, INVERT, BACKFLOW PREVENTION, AND METER.

2 POINT OF USE WATER HEATER. MOUNT ON WALL UNDER FIXTURE IN LAV-SHIELD ENCLOSURE.

3 RESTRICT HOT WATER FLOW FROM EWH-1 & EWH-2 TO 2.5 GPM MAX. LOCATE EWH ON WALL NEAR JANITORIAL SINK CONNECTIONS. MINIMIZE LENGTH OF HW LINE TO 2'-0", AS PER 2015 IECC CODE.

4 WATER PIPING SHOWN IS DIAGRAMMATIC. DO NOT ROUTE WATER PIPING ABOVE ELECTRICAL ROOM. ROUTE PIPING WITHIN PLUMBING CHASE.

5 ROOF PENETRATION SHALL BE LOCATED IN FLAT PORTION OF STANDING SEAM METAL ROOF. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR. SEE E1/A-500 AND 9/M-502.

6 PROVIDE BUILDING WATER SHUT-OFF VALVE IN VERTICAL.

7 LOCATE EWH-7 ON WALL UNDER SINK. MINIMIZE LENGTH OF HW LINE TO 2'-0", AS PER 2015 IECC CODE.

8 INTALL METER WM-1 IN EXTERIOR PLUMBING VAULT, SEE CIVIL PLANS FOR LOCATION AND DETAILS. INSTALL BADGER WATER METER ENCODER #HR-E ON WM-1 PER OEM INSTALLATION MANUAL. INSTALL BADGER WATER METER REMOTE ELECTRONIC DISPLAY BADGER MODEL #HR-RED ON ROOM 008 WALL, 60" AFF. CONNECT WATER METER ENCODER TO REMOTE DISPLAY VIA UNDERGROUND CABLE CONNECTION. INSTALL ALL EQUIPMENT AS PER OEM INSTALLATION MANUAL.

9 INSTALL DRINKING FOUNTAIN AS PER OEM INSTALLATION MANUAL AT ADA COMPLIANT HEIGHT.

10 I.E. = 24" BFF AT BUILDING EXTERIOR. SLOPE PIPING AS REQUIRED AFTER STRUCTURAL FOOTING TO MEET 27" BFF INVERT ELEVATION PER CIVIL PLANS.

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STAMP

PLUMBING PLANS

SCC TRANSIT CENTER
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SPOKANE, WA. 99217

SHEET TITLE

PROJECT NAME & ADDRESS

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CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	DJP
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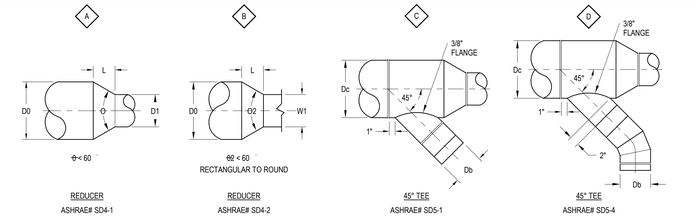
DATE	02/10/2019

SHEET M-202



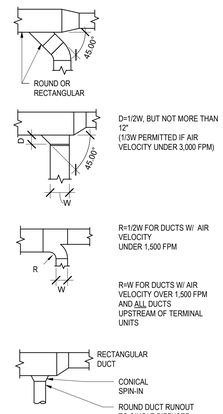
NOTES:

1. GALVANIZED METAL GAUGE FOR ALL.

FITTING DIA.	MAT'L GA.
UP TO 8"	24
9 - 24"	22
25 - 48"	20
49 - 72"	18

2. USE SLICES INSTEAD OF ROUND-RECT. ROUND WHERE d/D IS GREATER THAN 2/3.
3. R/D - 1.5 UP TO 14" DIAMETER; R=24" FOR 16" DIAMETER AND LARGER ELBOWS.

BRANCH DUCT TAKEOFFS



CHANGE OF DUCT SIZE

TRANSITION

A ≤ 15° FOR DUCTS W/ AIR VELOCITY OVER 1,500 FPM.

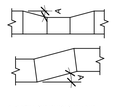
A ≤ 30° FOR DUCTS W/ AIR VELOCITY UNDER 1,500 FPM

END TAP

CONICAL SPIN-IN OR TRANSITION TO AT LEAST 70% GREATER THAN AREA OF SMALLER DUCT. SEE MAX TRANSITION ANGLE.

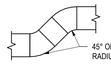
OFFSETS

NOTE: OFFSETS (TO AVOID OBSTRUCTIONS) ARE REQUIRED BUT ARE NOT NECESSARILY SHOWN ON THE PLANS.

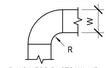


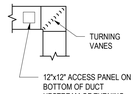
A ≤ 15° FOR DUCTS W/ AIR VELOCITY OVER 1,500 FPM.

A ≤ 30° FOR DUCTS W/ AIR VELOCITY UNDER 1,500 FPM



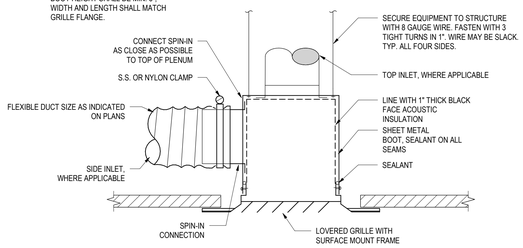
DUCT ELBOWS



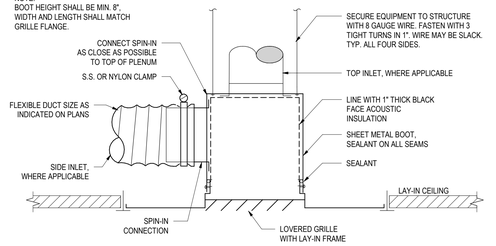


THE DUCT FITTINGS ABOVE ARE CONSIDERED ACCEPTABLE. THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ALTERNATIVE FITTINGS PRIOR TO FABRICATION. ONLY FITTINGS WITH EQUAL OR LOWER PRESSURE DROP WILL BE CONSIDERED.

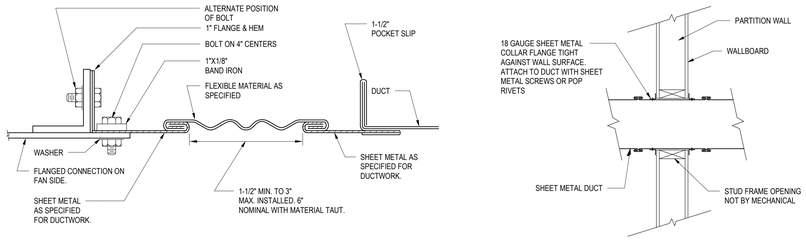
NOTE:
BOOT HEIGHT SHALL BE MIN. 8", WIDTH AND LENGTH SHALL MATCH GRILLE FLANGE.



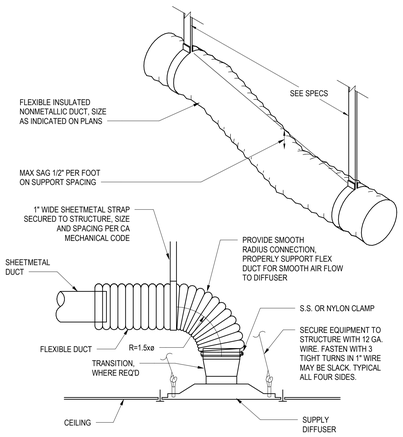
NOTE:
BOOT HEIGHT SHALL BE MIN. 8", WIDTH AND LENGTH SHALL MATCH GRILLE FLANGE.



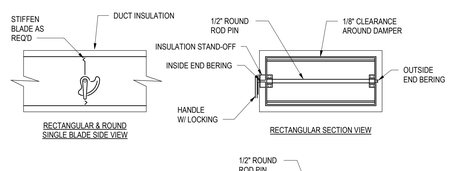
1 MEDIUM PRESSURE FABRICATED FITTINGS
NTS



2 LOW PRESSURE DUCT FITTING REQUIREMENTS
NTS

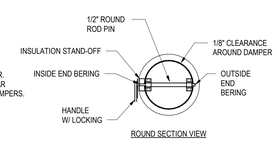


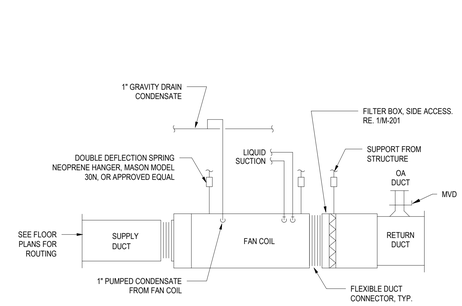
3 TYP. RETURN/EXHAUST GRILLE MOUNTING
NTS



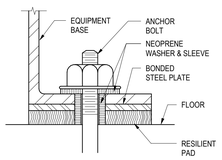
NOTES:

1. REMOVE INSULATION STAND-OFF ON DUCTWORK W/O EXTERIOR INSULATION. DETAIL SHOWS A SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE & ROUND VOLUME DAMPERS.
2.



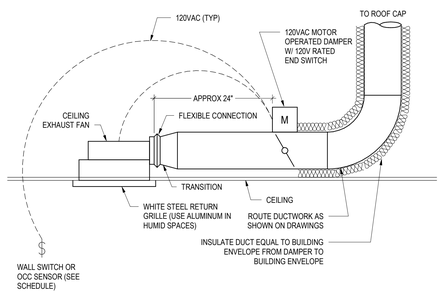


4 RECTANGULAR FLEXIBLE CONNECTION
NTS



FLOOR MOUNT EQUIPMENT RESTRAINED BY RESILIENT PADS (TYPE DS)

5 STUD WALL PENETRATION
NTS



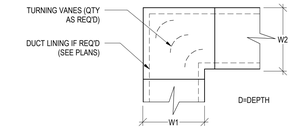
NOTES:

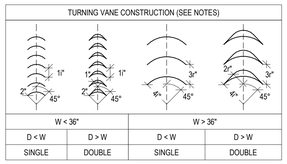
- MC TO PROVED ALL EQUIPMENT INCLUDING BY NOT LIMITED TO ACTUATOR, DAMPER, DUCTWORK, EXHAUST FAN, GRILLES, BOX HOOD, AND ALL ACCESSORIES. (SEE EXHAUST FAN SCHEDULE)
- MC TO COORDINATE WITH EC. EC TO PROVIDE WIRING, CONDUIT (IF REQ'D), AND WALL SWITCH.

6 SUPPLY DIFFUSER INSTALLATION
NTS

7 VOLUME DAMPER INSTALLATION
NTS

8 FAN COIL INSTALLATION - DUCTED RETURN
NTS



TURNING VANE CONSTRUCTION (SEE NOTES)			
			
W < 36"		W > 36"	
D < W	D > W	D < W	D > W
SINGLE	DOUBLE	SINGLE	DOUBLE

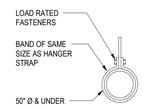
NOTES (*):
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. TO PREVENT LINER DAMAGE CARE MUST BE EXERCISED WHEN INSTALLING VANES, IN LINED OR FIBROUS GLASS DUCT.

9 SEISMIC BRACING FOR EQUIPMENT
NTS

10 CEILING EXHAUST FAN INSTALLATION
NTS

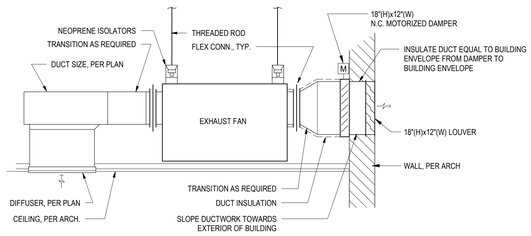
11 ROUND DUCT HANGER
NTS

HANGER STRAPS OR RODS			
MAX. DUCT Ø IN.	QUANTITY/SIZE IN.	MAX. LOAD LBS.	MAX. SPACING IN.
26	ONE 1 x 22 GA STRAP	260	144
36	ONE 1 x 18 GA STRAP	420	144
50	ONE 1 x 16 GA STRAP	700	144
60	TWO 3/8 Ø RODS	1320	144
84	TWO 1/2 Ø RODS	2500	144



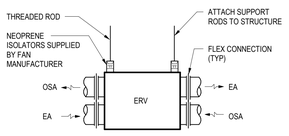
NOTE:
TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

12 EXHAUST FAN MOUNTING
NTS



13 VAINED ELDOWS
NTS

14 EXHAUST ERV FAN SUPPORT
NTS



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HVAC DETAILS

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SPOKANE, WA. 99217

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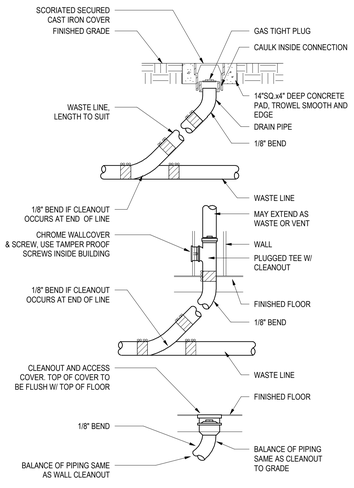
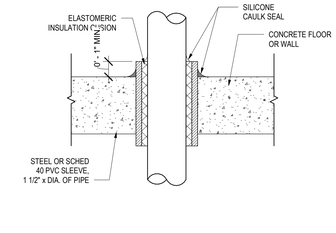
REVISIONS

No.	Date	By

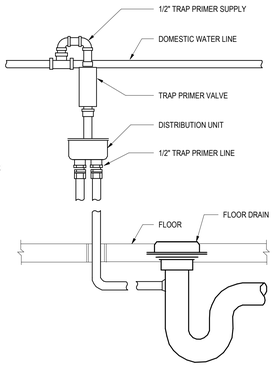
PROJ. NO.	2018-10258
DRAWN	DJP
CHECKED	TAH
DATE	02/10/2019
SHEET	M-501



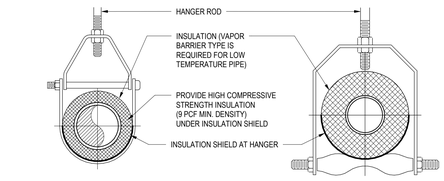
1 CLEANOUT DETAILS
NTS

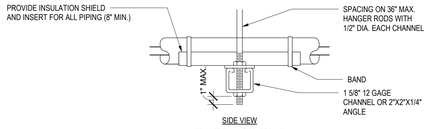


2 PIPE PENETRATION THROUGH CONCRETE
NTS



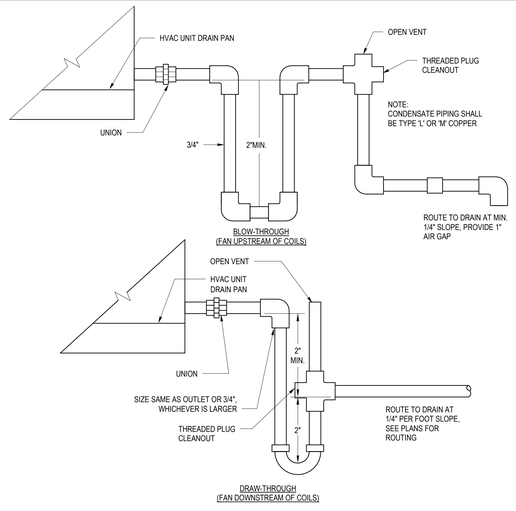
3 TRAP PRIMER DETAIL
NTS



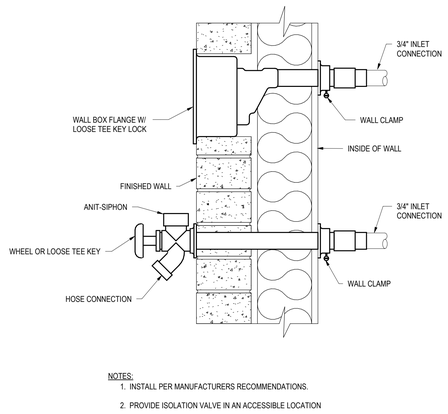


MAXIMUM PIPE/TUBING SUPPORT SPACING													
NOM. SIZE	IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
PIPE	FT.	7	7	7	9	10	11	12	14	16	17	19	22
TUBING	FT.	5 FT	6	7	8	8	9	10	12	13	14	16	-
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.													

4 TYPICAL PIPE HANGER
NTS

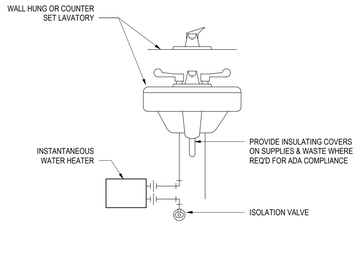


5 CONDENSATE TRAP AND DRAIN - FAN COILS
NTS

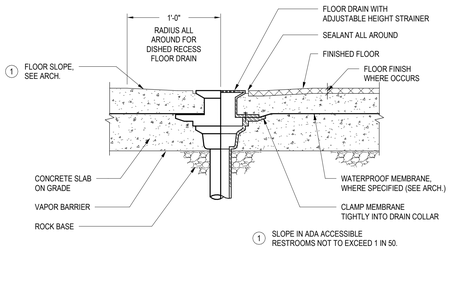


NOTES:
1. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE ISOLATION VALVE IN AN ACCESSIBLE LOCATION

6 FROST FREE HOSE BIBB
NTS

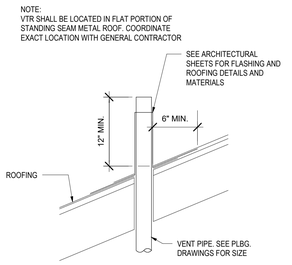


7 INSTANTANEOUS WATER HEATER INSTALLATION
NTS

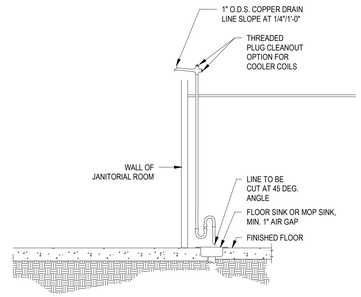


1 SLOPE IN ADA ACCESSIBLE RESTROOMS NOT TO EXCEED 1 IN 50.

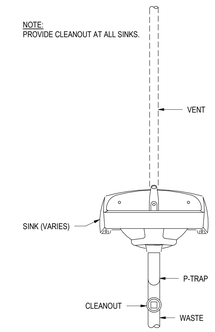
8 FLOOR DRAIN SLAB ON GRADE
NTS



9 VENT THRU SLOPED ROOF
NTS



10 VRF CONDENSATE DRAIN
NTS



11 CLEANOUT LOCATION @ SINK
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SHEET TITLE
PLUMBING DETAILS

PROJECT NAME & ADDRESS
SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

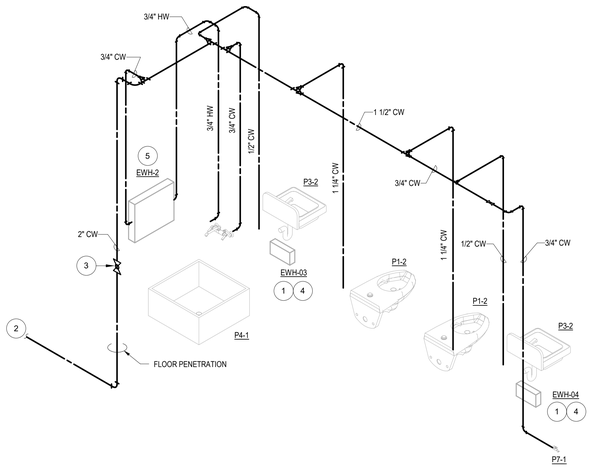
CLIENT INFORMATION
BID SET
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

REVISIONS

No.	Date	By

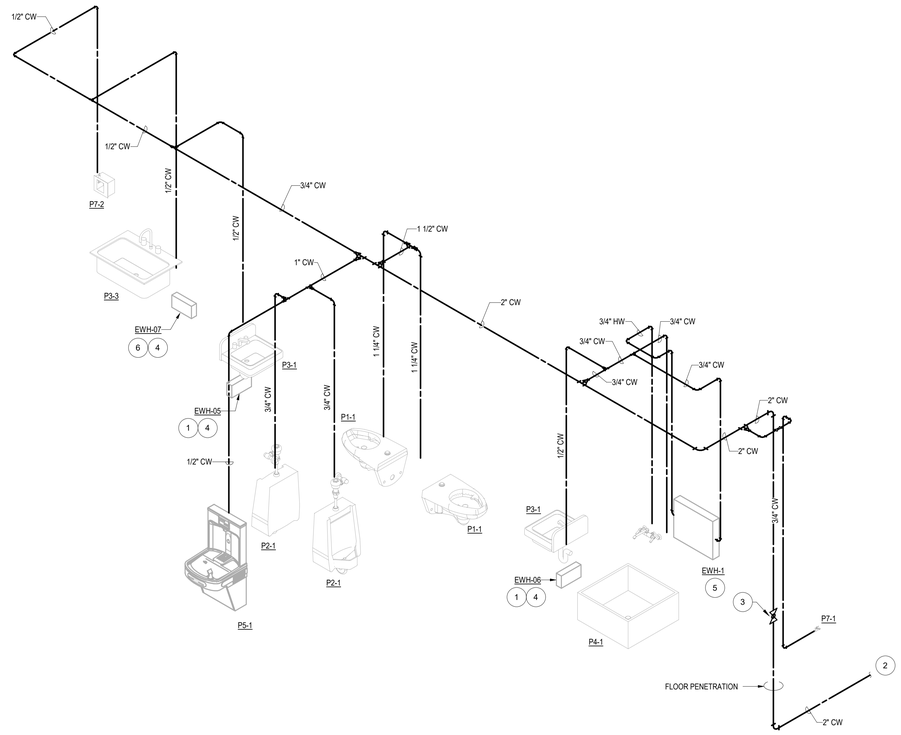
PROJ. NO.	2018-10258
DRAWN	DJP
CHECKED	TAH
DATE	02/10/2019

SHEET
M-502



1 DOMESTIC WATER RISER DIAGRAM

SCALE : NOT TO SCALE



2 DOMESTIC WATER RISER DIAGRAM

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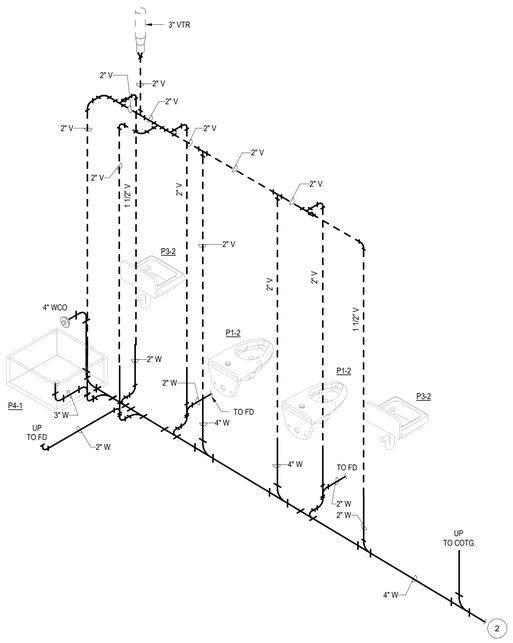
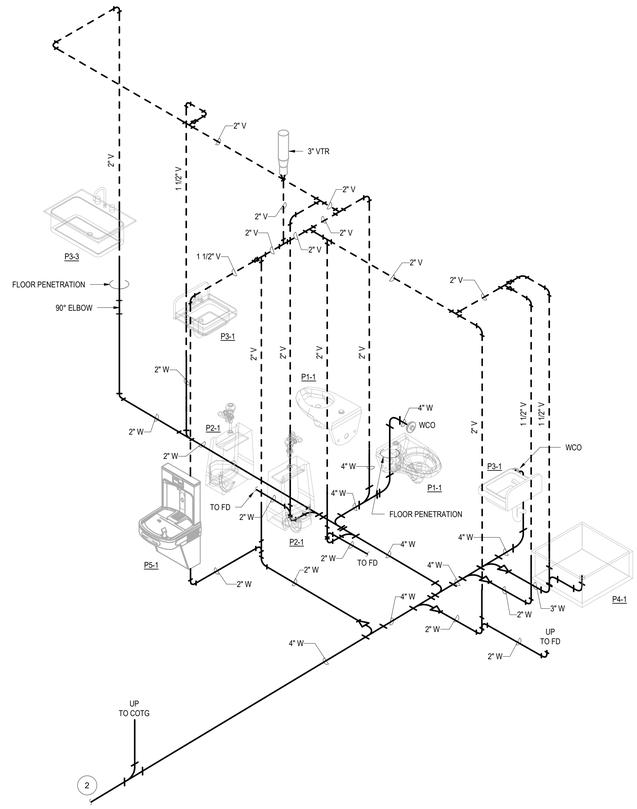


3 WASTE AND VENT RISER DIAGRAM

SCALE : NOT TO SCALE



4 WASTE AND VENT RISER DIAGRAM

SCALE : NOT TO SCALE

GENERAL PLUMBING NOTES

A. PLUMBING PLANS SHOW GENERAL ROUTING AND ARRANGEMENT OF PIPING.

B. CONTRACTOR SHALL COORDINATE ROUTING AND SPACE REQUIREMENTS OF PIPING WITH STRUCTURAL MEMBERS AND ALL OTHER TRADES INCLUDING HVAC, FIRE PROTECTION, ELECTRICAL, AND COMMUNICATIONS/DATA. OFFSET PIPING AROUND DUCTWORK AND OTHER OBSTACLES WHERE REQUIRED.

C. ALL PIPING SHALL BE SLEEVED AND SEALED THROUGH ANY STRUCTURE OR CONCRETE.

D. SLOPE ALL BELOW GRADE SANITARY OR DRAIN DRAIN PIPING AT 1/4" PER FOOT, MIN. UNO.

E. CONTRACTOR TO BLOCK OUT PORTION OF CONCRETE STEM WALLS WHERE REQUIRED TO ACCOMODATE PIPING.

F. COORDINATE PLUMBING VENT LOCATIONS WITH MECHANICAL. LOCATE PLUMBING VENTS 10'-0" MIN. FROM ANY BUILDING OPENING OR HVAC AIR INTAKE.

G. WASTE AND VENT PIPING SHALL BE NO-HUB CAST IRON, SCHEDULE 40 PVC DWV, OR SCHEDULE 40 ABS DWV. EXPOSED WASTE AND VENT PIPING SHALL BE CAST IRON.

H. SEE ARCHITECTURAL FOR FIXTURE MOUNTING HEIGHTS.

I. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING OF BRANCH CLOSEST TO FIXTURE. TRAP ARMS MAY BE SIZED THE SAME AS FIXTURE OUTLET. UNDERGROUND PIPING SHALL BE NO LESS THAN 2".

J. TRAP PRIMER NOT SHOWN FOR CLARITY. SEE FLOOR PLANS FOR WATER AND DRAIN LOCATIONS, AND PLUMBING FIXTURE SCHEDULE FOR PRIMER REQUIREMENTS.

K. INSTALL WATER HAMMER ARRESTORS IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS AND GUIDELINES.

L. PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES AND WATER HAMMER ARRESTORS.

M. PROVIDE AND INSTALL CLEANOUTS AT ALL SINKS AND URINALS.

N. PROVIDE ISOLATION VALVES AT ACCESSIBLE LOCATIONS FOR ALL WATER PIPING BRANCHES, INCLUDING ALL HOSE BIBBS AND RESTROOMS

O. ALL PIPING SERVING FIXTURES ALONG EXTERIOR WALLS SHALL BE ROUTED ON INTERIOR SIDE OF INSULATION.

KEY NOTES

1 POINT OF USE WATER HEATER. MOUNT ON WALL UNDER FIXTURE IN LAV-SHIELD ENCLOSURE.
2 SEE CIVIL FOR CONTINUATION, INVERT, BACKFLOW PREVENTION, AND METER.
3 PROVIDE BUILDING WATER SHUT-OFF VALVE IN VERTICAL.
4 SEE DETAIL 7/M-502.
5 RESTRICT HOT WATER FLOW FROM EWH-1 & EWH-2 TO 2.5 GPM MAX. LOCATE EWH ON WALL NEAR JANITORIAL SINK CONNECTIONS. MINIMIZE LENGTH OF HW LINE TO 2'-0", AS PER 2015 IECC CODE.
6 LOCATE EWH-7 ON WALL UNDER SINK. MINIMIZE LENGTH OF HW LINE TO 2'-0", AS PER 2015 IECC CODE.

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SHEET TITLE: PLUMBING RISER DIAGRAMS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

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REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
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DATE	02/10/2019

SHEET: M-503

VRF HEAT PUMP AND FAN COIL SCHEDULE

TAG	LOCATION	MANUFACTURER/ MODEL	COOLING (BTUH)	TEMP. COOLING (˚F)	HEATING (BTUH)	TEMP. HEATING (˚F)	SEER	COP 47˚F / 17˚F	UNIT POWER REQ'TS V/PH	MCA	MOCP	WT. (LBS)	EXTERNAL DIMENSIONS	REF.	REFRIG. CONECT. LIQUID/SUCTION (INCH)	CHARGE LBS
CU-1	EAST END BUILDING	MITSUBISHI / MXZ-8C48NAHZ-U1	48700	95	429000	17	18.9	3.5 / 2.6	208/1	42	52	276	53"H x 42"W x 14"D	R410A	3/8 / 5/8	6.7
CU-1																
CU-1																

TAG	LOCATION	MANUFACTURER/ MODEL	INDOOR FAN CFM	OA	ESP	COOLING (BTUH) TOTAL	SENSIBLE	TEMP. COOLING DB / WB (˚F)	HEATING (BTUH)	TEMP. HEATING (˚F)	REFRIG. CONECT. LIQUID/SUCTION (INCH)	DRAIN IN	UNIT POWER REQ'TS V/PH	MCA	MOCP	WT. (LBS)	CHARGE LBS	
FC-01	ABOVE ROOM 008	MITSUBISHI / PEAD-A36AA7	960	260	.6	22200	21100	80/67	32700	70	3/8 / 5/8	3/4"	208/1	3.3	15A	86	3	1-9, 11
FC-02	ABOVE ROOM 009	MITSUBISHI / SLZ-KA15NAR1.TH	390	-	-	12000	12000	80/67	2500	70	1/4 / 1/2	3/4"	208/1	1	15A	36	3	1-7,10
FC-03	ABOVE ROOM 010	MITSUBISHI / SLZ-KA09NAR1.TH	280	20	-	6900	6800	80/67	6000	70	1/4 / 3/8	3/4"	208/1	1	15A	36	2	1-7,10

NOTES:
1. LOW VOLTAGE CONTROL WIRING BETWEEN FCU AND CU IS BY CONTROLS CONTRACTOR.
2. PROVIDE EACH FAN COIL WITH OEM REMOTE WALL MOUNTED THERMOSTAT-CONTROLLER .
3. PROVIDE CONTROLS TO INTERLOCK VRF INDOOR UNIT FAN OPERATION WITH BUILDING VENTILATION SCHEDULE.
4. PROVIDE WITH VIBRATION ISOLATING DUCT CLAMPS AND UNIT HANGERS.
5. FILTER RACKS ARE OEM PROVIDED KITS.
6. PROVIDE WITH FIELD INSTALLED CONDENSATE PUMP.
7. SUBMIT WRITTEN GUARANTEE THAT SPACE NOISE LEVEL DUE TO DUCT BORNE, BREAKOUT, VIBRATION AND NOISE TRANSMISSION WILL NOT EXCEED NC 35
8. INCLUDE LOW AMBIENT HOOD KIT WITH ASSOCIATED WIND BAFFLES FOR 100% LOW AMBIENT COOLING DOWN TO MINUS (-) 10°F.
9. PROVIDE OEM FILTER BOX #FBM2-4 AND (2) 2" MERVE 8 FILTERS
10. 4-WAY AIRFLOW TYPE
11. PROVIDE WITH REFRIGERATION LINE SETS, VALVES , CONTROLS AND BRACHSELECTOR BOX MITSUBISH #PAC-MKA31BC OR EQUAL.

SEISMIC AND VIBRATION CONTROL

TAG	ISOLATOR REQUIREMENTS	CONNECTIONS
EXHAUST FANS	TYPE 1 ISOLATOR	FLEXIBLE DUCT CONNECTIONS
CU-1	TYPE 2 ISOLATOR	FLEXIBLE PIPE CONNECTIONS
FCU & HRV UNITS	SEISMICALLY RESTRAIN ALL UNITS GREATER THAN 75 LBS.	FLEXIBLE DUCT AND PIPE CONNECTIONS
SOUND ATTENUATORS	SEISMICALLY RESTRAIN ALL ATTENUATORS	NR
REFRIGERATION PIPING	SEISMICALLY RESTRAIN ALL PIPING WITH HANGERS LONGER THAN 12"	NR
PLUMBING PIPING	SEISMICALLY RESTRAIN ALL PIPING > 3" IN SIZE*	NR
DUCTWORK	SEISMICALL RESTRAIN ALL DUCTWORK > 6 SF*	NR

SEISMIC RESTRAINT PROVISIONS

SEISMIC RESTRAINT CALCULATIONS MUST BE PROVIDED BY THE PRODUCT MANUFACTURER FOR ALL CONNECTIONS OF EQUIPMENT TO THE STRUCTURE. ALL RESTRAINING DEVICES SHALL HAVE TESTING DATA TO VALIDATE MAXIMUM RESTRAINT RATINGS. CALCULATIONS (INCLUDING THE COMBINING OF TENSILE AND SHEAR LOADING) TO SUPPORT SEISMIC RESTRAINT DESIGNS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN IDAHO. THE ENGINEERING ANALYSIS MUST INDICATE CALCULATED DEAD LOADS, STATIC SEISMIC LOADS, AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS TO EQUIPMENT STRUCTURE. ANALYSIS MUST DETAIL ANCHORING METHODS, BOLT DIAMETER, EMBEDMENT, AND/OR WELDED LENGTH.

ALL SEISMIC RESTRAINT DEVICES SHALL BE DESIGNED TO ACCEPT, WITHOUT FAILURE, THE FORCES PRESCRIBED PER THE ASCE 7-10 ACTING THROUGH THE EQUIPMENT CENTER OF GRAVITY. OVERTURNING MOMENTS MAY EXCEED FORCES AT GROUND LEVEL AND MAY BE RESISTED BY SEISMIC RESTRAINTS, SUPPORT, OR ANCHORAGE. ANCHORAGE TO CONCRETE MUST HAVE AN ICC TESTING REPORT THAT ADHERES TO THE REQUIREMENTS OF THE 2012 IBC AND MUST BE RATED FOR SEISMIC RESTRAINT IN CRACKED CONCRETE USING THE APPROPRIATE REDUCTION FACTORS PER ACI 318 APPENDIX D. ACCEPTABLE ANCHORS INCLUDE THE HILTI KWIK BOLT TZ AND SIMPSON STRONG BOLT WEDGE ANCHORS OR HILTI HIT-RE 500-SD AND SIMPSON SET XP EPOXY ANCHORS. EPOXIES ARE NOT ACCEPTABLE FOR USE IN OVERHEAD APPLICATIONS.

SEISMIC DESIGN CRITERIA

SEISMIC DESIGN CATEGORY = C
SITE CLASS = D
RISK CATEGORY = II
BUILDING SEISMIC IMPORTANCE FACTOR: I = 1.00
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS (0.2 SECOND), Sds = 0.342
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD, Sd1 = 0.179

NOTES

COMPONENT RESPONSE MODIFICATION AND AMPLIFICATION FACTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7-10, TABLE 13.6-1.
NR = NOT REQUIRED
SEE 230540 - Vibration and Seismic Controls for HVAC for further detail.

HEAT RECOVERY VENTILATOR SCHEDULE

TAG	LOCATION	SERVES	MANUFACTURER/ MODEL	SUPPLY FAN TOTAL CFM	ESP (" WC)	MOTOR DATA BHP	HP	RPM	DRIVE	EXHAUST FAN TOTAL CFM	ESP (" WC)	MOTOR DATA BHP	HP	RPM	DRIVE	UNIT ELECTRICAL REQUIREMENTS VOLTS	Ø	FLA	MOCP	FILTERS #	SIZE (IN)	UNIT SIZE (IN)	WT. (LBS)	REMARKS
HRV-1	ABOVE RM 008	BUILDING	RENEWAIR / EV300	280	.6	-	.2	-	DIRECT	280	.6	-	.2	-	DIRECT	120	1	3.3		2	10.5"X21.75"X1"	33.5"X24"X20"	115	1-6

NOTES:
1. SUPPLY WITH THE FOLLOWING OEM ACCESSORIES: 8" DIA. BACKDRAFT DAMPERS.
2. PROVIDE MERV8 FILTERS .
3. PROVIDE CONTROLS TO INTERLOCK ERV OPERATION WITH VRF INDOOR FAN COIL OPERATION AND MANUAL OVERIDE.
4. SUBMIT WRITTEN GUARANTEE THAT SPACE NOISE LEVEL DUE TO DUCTBORNE, BREAKOUT, VIBRATION AND NOISE TRANSMISSION WILL NOT EXCEED NC 35.
5. PROVIDE WITH FLEXIBLE DUCT CONNECTORS.
6. PROVIDE WITH VIBRATION ISOLATING DUCT CLAMPS AND UNIT HANGERS.

FAN SCHEDULE

TAG	LOCATION	SERVES	MANUFACTURER/ MODEL	DESCRIPTION TYPE	DRIVE	FAN PERFORMANCE FLOW (CFM)	ESP (" WC)	BHP	SPEED (RPM)	NOISE SONES	(dBA)	MOTOR ELECTRICAL REQUIREMENTS HP	VOLTS	Ø	FLA	MOCP	UNIT WT. (LBS)	SIZE (IN)	NOTES
EF-1	JAN. ROOM 002	JAN. ROOM 002	GREENHECK MODEL SP-B80	CEILING	DIRECT	50	.2"		780	1.2	-	-	115	1	.6	15	10		1, 4, 5
EF-2	TOILET ROOM 003	TOILET ROOM 003	GREENHECK MODEL SP-B80	CEILING	DIRECT	50	.2"		780	1.2	-	-	115	1	.6	15	10		1, 4, 5
EF-3	TOILET ROOM 004	TOILET ROOM 004	GREENHECK MODEL SP-B80	CEILING	DIRECT	50	.2"		780	1.2	-	-	115	1	.6	15	10		1, 4, 5
EF-4	ELECTRICAL ROOM 001	ELECTRICAL ROOM 001	GREENHECK MODEL SQ-95-VG	INLINE	DIRECT	500	.45"	.1	1575	7.8	-	-	115	1	4.4	15	46	15X15X19	2, 3

NOTES:
1. PROVIDE WITH GREENHECK WL-10X3 HOODED RECTANGULAR WALL CAP, INTEGRAL DISCONNECT SWITCH, PRE-WIRED INTERNAL SPEED CONTROL, F220 STAINLESS STEEL GRILL. INTERLOCK OPERATION WITH ROOM LIGHTING CIRCUIT.
2. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
3.PROVIDE SOLID STATE SPEED CONTROL TO MAINTAIN 80F ROOM TEMPERATURE.
4. PROVIDE WITH EXHAUST DISCHARGE FOR PITCHED WITH BUILDING BIRD SCREEN AND DAMPER. GREENHECK MODEL #RJ-4 OR EQUIVALENT. INSTALL PER MANUFACTURES INSTRUCTIONS.
5. PROVIDE WITH CLASS 1, LOW LEAK, MOTORIZED CONTROL DAMPER AND ACTUATOR AS PER WA ENERGY CODE SECTION C403.2.4.3. RE:11/M501.

ELECTRIC UNIT HEATER SCHEDULE

TAG	LOCATION	TYPE	MANUFACTURER/ MODEL	UNIT PERFORMANCE FAN HP	FAN CFM	FAN RPM	HEATING (MBH)	Kw	UNIT ELECTRICAL REQUIREMENTS VOLTS	Ø	MCA	MOCP	UNIT WT. (LBS)	NOTES
UH-01	TOILET ROOM 003	WALL	KING / LPWV2015-W-TP	-	-	1300	5	1.5	240	1	7.2		30	1, 3, 4
UH-02	TOILET ROOM 004	WALL	KING / LPWV2015-W-TP	-	-	1300	5	1.5	240	1	7.2		30	1, 3, 4
UH-03	JAN/MECH ROOM 002	WALL	KING / W2015	-	-	-	5	1.5	208	1	7.2		8	2, 3, 4
UH-4	ELECTRICAL ROOM 001	WALL	KING / W2015	-	-	-	5	1.5	208	1	7.2		8	2, 3, 4

NOTES:
1. VANDAL RESISTANT, PROVIDE WITH BUILT-IN THERMOSTAT.
2. PROVIDE WITH BUILT-IN THERMOSTAT.
3. HEATER TO HAVE POSITIVE DISCONNECT FROM POWER SUPPLY.
4. PROVIDE WITH RECESSED WALL CAN

LOUVER SCHEDULE

TAG	LOCATION	SERVES	MANUFACTURER/ MODEL	AIRFLOW (CFM)	LOUVER SIZE, WxH (IN)	FACE AREA (SF)	FACE VELOCITY (FPM)	FREE AREA (SF)	FREE AREA VEL (FPM)	APD (IN WC)	DRAINABLE BLADE (YES/NO)	BLADE ANGLE (DEG)	FRAME DEPTH (IN)	NOTES
LV-1	NORTH WALL	HRV-1 OA	RUSKIN/ELF6375DXD	250	12" X 18"	1.5	167	0.62	403	0.04	YES	37.5	6	1, 2, 3
LV-2	EAST WALL	HRV-1 EXHAUST	RUSKIN/ELF6375DXD	250	12" X 18"	1.5	167	0.62	403	0.04	YES	37.5	6	1, 3
LV-3	WEST WALL	EF-4 OA	RUSKIN/ELF6375DXD	500	12" X 18"	1.5	333	0.62	806	0.09	YES	37.5	6	1, 2, 3
LV-4	SOUTH WALL	EF-4 EXHAUST	RUSKIN/ELF6375DXD	500	18" X 12"	1.5	333	0.57	877	0.1	YES	37.5	6	1, 3

NOTES:
1. PROVIDE WITH CLASS 1 LOW LEAK MOTORIZED CONTROL DAMPER AND ACTUATOR.
2. PROVIDE PAINTED. ARCHITECT TO SELECT COLOR FROM STANDARD RANGE OF COLORS.
3.PROVIDE PAINTED. ARCHITECT TO SELECT COLOR FROM STANDARD RANGE OF COLORS.

GRILLES, REGISTERS, DIFFUSERS SCHEDULE

TAG	TYPE	MFR	MODEL	GRILLE SIZE	NECK SIZE	PANEL SIZE	THROW PATTERN	DAMPER TYPE	MATERIAL	FRAME STYLE	FINISH	NOTES
1S	SUPPLY	TITUS	TMS	12x12	6" RND	-	4-WAY	-	STEEL	SURFACE	#26	1,2
2S	SUPPLY	TITUS	TMS	24x24	6" RND	-	4-WAY	-	STEEL	T-BAR	#26	1,2
3S	SUPPLY	TITUS	TMS	24x24	10" RND	-	4-WAY	-	STEEL	T-BAR	#26	1,2
1R	RETURN	TITUS	350RS	12x24	10x22	-	-	-	STEEL	T-BAR	#26	2
2R	RETURN	TITUS	350RS	24x24	22x22	-	-	-	STEEL	T-BAR	#26	2
1E	EXHAUST	TITUS	350RS	8x8	8x8	-	-	-	STEEL	SURFACE	#26	2
2E	EXHAUST	TITUS	350RS	12x24	10x22	-	-	-	STEEL	T-BAR	#26	2
3E	EXHAUST	TITUS	350RS	24x24	22x22	-	-	-	STEEL	SURFACE	#26	2

NOTES:
1. PROVIDE WITH FACTORY INSULATION OPTIONAL .
2. PROVIDE REDUCER AT GRILLE IF REQUIRED; SEE PLANS FOR DUCT SIZES.

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SPOKANE, WA. 99217

SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN DJP
CHECKED TAH
DATE 02/10/2019

M-601

SHEET

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE DESCRIPTION	MANUFACTURER / MODEL	FAUCET / FLUSH VALVE	PLUMBING ROUGH-IN CONNECTIONS					POWER REQ'TS				REMARKS/NOTES
			MANUFACTURER / MODEL	DIRECT WASTE	VENT	IND. WASTE	CW	HW	VOLTS	Ø	FLA	MOCP	
P1-1	WATER CLOSET - WALL MOUNT	KOHLER / K-4325	SLOAN / ECOS 8111-1.28	4"	2"	-	1-1/2"	-	-	-	-	-	1.28 GPF, ADA COMPLIANT, ELONGATED, PROVIDE OLSONITE 10SSCT SEAT. NOTE:1,2,4
P1-2	WATER CLOSET - WALL MOUNT	WILLOUGHBY / ETW-1490-HET-OF-TS	SLOAN / ROYAL116	4"	2"	-	1-1/2"	-	120	1	2	-	1.28 GPF. STAINLESS STEEL CONSTRUCTION, PROVIDE WITH HINGED BLACK PLASTIC SEAT, ADA COMPLIANT NOTE:1,4,5
P2-1	URINAL - WALL MOUNT	KOHLER / K-4991-ET	SLOAN / ECOS 8186-0.125	2"	2"	-	3/4"	-	-	-	-	-	1.28 GPF, ADA COMPLIANT, ELONGATED, PROVIDE OLSONITE 10SSCT SEAT. NOTE:1,4,7
P3-1	LAVATORY - WALL MOUNT	KOHLER / K-2032	MOEN / CA8301	2"	1-1/2"	-	1/2"	1/2"	-	-	-	-	SINGLE LEVER FAUCET, 0.5 GPM. SUPPLY WITH INTEGRATED, OR SHIPPED LOSE, THERMOSTATIC MIXING VALVE MDL#104451. NOTE:1,4,3,6
P3-2	LAVATORY - WALL MOUNT	WILLOUGHBY / ES-1015-HC-1-TE	AMERICAN STANDARD / 1340M.109	2"	1-1/2"	-	1/2"	1/2"	-	-	-	-	1-HOLE SINK. STAINLESS STEEL CONSTRUCTION, FAUCET 1.0GPM/ 0.17 GALLON FLOW PER ACTIVATION. . NOTE:1,4,5,6,8
P3-3	SINK - SINGLE BASIN	ELKAY / LR17161	ELKAY / LK500GN04T4C	2"	1-1/2"	-	1/2"	1/2"	-	-	-	-	ELKAY SINK KIT LR1716C. PROVIDE WITH ELKAY MDL. LKPD1 DRAIN.
P4-1	MOP SINK - FLOOR MOUNT	ACORN / TNC-24	CHICAGO / 897-CRCF	3"	2"	-	3/4"	3/4"	-	-	-	-	STAINLESS STEEL BUMPER GUARD, MOP HANGER, 36" HOSE., 3GPM MAX FLOW
P5-1	ELECTRIC WATER COOLER W/ BOTTLE FILLER	ELKAY/ EZS8WSLK	-	1-1/2"	1-1/2"	-	1/2"	-	115	1	6	15	PROVIDE VALVE WITH OUTLET BOX AND HAMMER ARRESTER. ADA COMPLIANT
P7-1	HOSE BIBB FROST FREE	WOODFORD / 65	-	-	-	-	3/4"	-	-	-	-	-	FREEZE LESS, FULL FLOW IN-LINE VACUUM BREAKER W/ HOSE THREAD OUTLET, CHROME PLATE FINISH, 2-1/4" T-HANDLE.
P7-2	ICE MAKER VALVE	EASTMAN / 60241	-	-	-	-	1/2"	-	-	-	-	-	PROVIDE VALVE WITH OUTLET BOX AND HAMMER ARRESTER

NOTES:
1. PROVIDE & INSTALL WATER HAMMER ARRESTOR ON CW LINE SERVING FIXTURE.
2. FLUSH VALVES TO BE 1.28 GPF, BATTERY POWERED WITH AN OVERRIDE BUTTON.
3. FAUCET TO BE .5GPM, BATTERY POWERED.
4. PROVIDE AND INSTALL SUPPORT CARRIER; SEE ARCHITECTURAL FOR MOUNTING HEIGHT.
5. INSULATE ALL EXPOSED PIPING (CW, HW, & SAN) BELOW SINK WITH 1" INSULATION.
6. MIXING DEVICE TO BE IN ACCORDANCE WITH ASSE 1070 OR CSA B125.3
7. FLUSH VALVES TO BE 0.125 GPF, BATTERY POWERED WITH AN OVERRIDE BUTTON.
8. INSTALL ADA COMPLIANT TRUEBRO MODEL 2018 LAV-SHIELD KIT.

PLUMBING DRAIN SCHEDULE

TAG	DESCRIPTION	MANUFACTUER / MODEL	BODY		STRAINER			OPTIONS		CONNECTIONS			NOTES
			STYLE	MATERIAL	STYLE	MATERIAL	SIZE (IN)	SUFFIX	DESCRIPTION	WASTE	VENT	CW	
FD-1	FLOOR DRAIN	JR SMITH / 2005Y	NO-HUB	CAST IRON	ROUND	NICKEL BRONZE	5	-AHP -NB -P050	HEELPROOF GRATE NICKEL BRONZE STRAINER TRAP PRIMER CONNECTION	2"	1-1/2"	-	1

NOTES:
1. PROVIDE PRECISION PLUMBING PRODUCTS, INC. MODEL P1/P2 TRAP PRIMER FOR EACH DRAIN. ROUTE 1/2" PIPING TO DRAIN.

ELECTRIC WATER HEATER SCHEDULE

TAG	LOCATION	SERVES	MANUFACTURER / MODEL	HEATER TYPE	TANK CAP. (GAL.)	RECOV. CAP.	CONNECTIONS		UNIT POWER REQUIREMENTS					UNIT WT. FULL (LBS)	NOTES
							CW	HW	KW	VOLT	Ø	MCA	MOCP		
EWH-1	JANITOR RM 008	OFFICE	RHEEM MODEL RTEX-36	INSTANT ELECTRIC	-	91°F RISE @ 2GPM	3/4"	3/4"	26.6	208	1	127	-	23	2, 4
EWH-2	JANITOR RM 002	OFFICE	RHEEM MODEL RTEX-36	INSTANT ELECTRIC	-	91°F RISE @ 2GPM	3/4"	3/4"	26.6	208	1	127	-	23	2, 4
EWH-3	TR 003	P3-2	RHEEM MODEL RTEX-04	INSTANT ELECTRIC	-	48°F RISE @ 0.5 GPM	1/2"	1/2"	3.5	120	1	29	30	5	3
EWH-4	TR 004	P3-2	RHEEM MODEL RTEX-04	INSTANT ELECTRIC	-	48°F RISE @ 0.5 GPM	1/2"	1/2"	3.5	120	1	29	30	5	3
EWH-5	TR 006	P3-2	RHEEM MODEL RTEX-04	INSTANT ELECTRIC	-	48°F RISE @ 0.5 GPM	1/2"	1/2"	3.5	120	1	29	30	5	3
EWH-6	TR 007	P3-2	RHEEM MODEL RTEX-04	INSTANT ELECTRIC	-	48°F RISE @ 0.5 GPM	1/2"	1/2"	3.5	120	1	29	30	5	3
EWH-7	BREAK ROOM 005	P3-2	RHEEM MODEL RTEX-13	INSTANT ELECTRIC	-	46°F RISE @ 1.5 GPM	1/2"	1/2"	10.1	208	1	49	-	8.5	1

NOTES:
1. ADJUSTABLE DIGITAL TEMPERATURE CONTROL. MOUNT ON WALL UNDER FIXTURE.
2. ADJUSTABLE DIGITAL CONTROL. MOUNT ON WALL NEAR FIXTURE.
3. ADJUSTABLE DIGITAL CONTROL. MOUNT ON WALL, UNDER FIXTURE, IN LAV-SHIELD ENCLOSURE.
4. PROVIDE 2GPM INLINE FLOW REGULATOR, RHEEM #RTE10001B

THERMOSTATIC MIXING VALVE STATION SCHEDULE

TAG	LOCATION	SERVES	MANUFACTURER / MODEL	VALVE PERFORMANCE			PIPE CONNECTIONS			OUTLET TEMP	UNIT WT. (LBS)	NOTES
				FLOW (GPM)		PRESSURE DROP (PSI)	INLETS		OUTLET			
				MIN	MAX		CW	HW				
TMV-1	TOILET ROOM 003	P3-2	WATTS / LFUSG-B	0.5	20	1	3/8	3/8	3/8	85	1	1
TMV-2	TOILET ROOM 004	P3-2	WATTS / LFUSG-B	0.5	20	1	3/8	3/8	3/8	85	1	1

NOTES:
1. MOUNT ON WALL, UNDER FIXTURE, IN LAV-SHIELD ENCLOSURE.

WATER METER SCHEDULE

TAG	LOCATION	SIZE	MANUFACTURER/ MODEL	SYSTEM	TYPE	PRESSURE RATING (PSI)	MIN / MAX GPM	DIMENSIONS (IN)	CONNECTION TYPE	SHIPPING WEIGHT (LBS)	NOTES
WM-1	EXTERIOR WATER VAULT	1"	BADGER / RCDL- 55 RECORDALL	BUILDING SUBMETER	DISC	150	1.25-70	6-1/2 X 13	THREADED	12	1-3

1. LEAD-FREE BRONZE ALLOY
2. PROVIDE FACTORY MOUNTED BADGER MODEL #HR-E METER ENCODER
3. PROVIDE BADGER MODEL #HR-RED REMOTE ELETRONIC DISPLAY

WATER SUPPLY FIXTURE UNITS - PUBLIC

FIXTURE DESCRIPTION	QTY.	FIXTURE UNITS (1)	TOTAL
Drinking Fountain or Watercooler	2	0.5	1
Dishwasher, domestic	0	1.5	0
Clothes washer	0	4	0
Hose Bibb (First one)	1	2.5	2.5
Hose Bibb (Ea. additional)	1	1	1
Lavatory	4	1	4
Sink, Service or Mop Basin	1	3	3
Sink, Washup, each set of faucets	1	2	2
Water Closet, 1.6 GPF Flushometer Tank	0	2.5	0
Urinal, 1.0 GPF, flushometer valve	2	NOTE (2)	-
Water Closet, 1.6 GPF Flushometer Valve	4	NOTE (2)	-
		TOTAL DEMAND =	175

(1) FIXTURE UNIT VALUES OBTAINED FROM TABLE 610.3.
(2) FLUSHOMETER VALVE FIXTURE UNITS FOR WATER CLOSETS AND URINALS OBTAINED FROM TABLE 610.10.

LENGTH FROM METER TO REMOTE FIXTURE = 500'
PRESSURE RANGE (TABLE 6-5) = 30-45 PSI
WATER METER SIZE = 2"
BUILDING SUPPLY SIZE = 2"

FIXTURE UNITS OBTAINED FROM UNIFORM PLUMBING CODE, 2015 EDITION.

DRAINAGE FIXTURE UNIT VALUES - PUBLIC

FIXTURE DESCRIPTION	QTY.	FIXTURE UNITS	TOTAL
Drinking Fountain or Watercooler	1	0.5	0.5
Dishwasher, domestic, with independent drain	0	2	0
Lavatory, single	4	1	4
Sink, Service or Mop Basin, 3" trap	1	3	3
Sink, Wash, each set of faucets	0	2	0
Sink, Commercial with food waste	1	3	3
Sink, commercial, 1-1/2" trap, with food waste	0	3	0
Shower, single head 2" trap	0	2	0
Urinal, 1.0 GPF	2	2	4
Water Closet, 1.6 GPF flushometer valve	4	4	16
Floor Drain	6	2	12
Receptor, indirect waste, 2" trap, up to 7.5 gpm (1)	0	1	0
Receptor, indirect waste, 3" trap, up to 7.5 gpm - 15 gpm (1)	0	2	0
		Total Demand =	42.5

(1) FU determined by fixture that drains to receptor.

FIXTURE UNITS OBTAINED FROM TABLE 702.1, UNIFORM PLUMBING CODE, 2015 EDITION.

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STAMP

PLUMBING SCHEDULES

SHEET TITLE

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1810 N. GREENE STREET
SPOKANE, WA. 99217

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

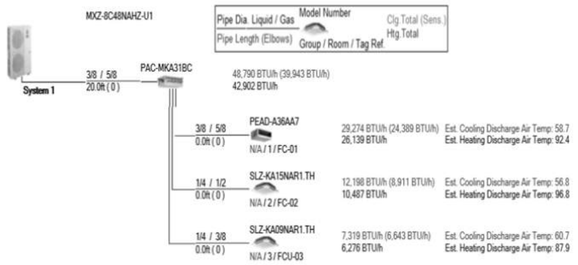
CLIENT INFORMATION

BID SET

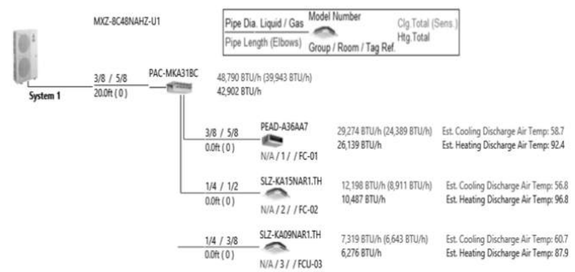
REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	DJP
CHECKED	TAH
DATE	02/10/2019
SHEET	M-602



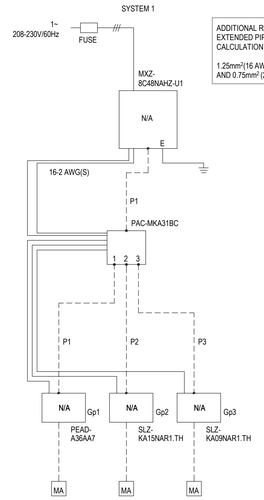
1 VRF-1 SYSTEM CONTROL
NTS



2 VRF-2 SYSTEM CONTROL
NTS

DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
——//——	POWER WIRE
————	CONTROL WIRE
————	REF. PIPE

PIPING AND CONTROLS	
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/8 / 5/8
P2	1/4 / 1/2
P3	1/4 / 3/8
SYMBOL	MODEL NUMBER
MA	PAR-33MAA-J



ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING. PLEASE REFER THE AMOUNT OF PRE-CHARGE AND THE FORMULA OF CALCULATION WHICH IS MENTIONED ON THE DATA BOOK.

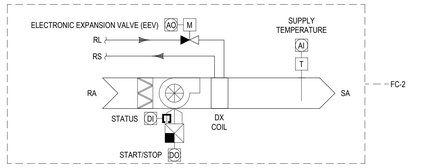
1.25mm²(16 AWG) : 1.25mm²(16 AWG) OR MORE. 0.75mm² (20 AWG) : BETWEEN 0.5mm² (24 AWG) AND 0.75mm² (20 AWG).

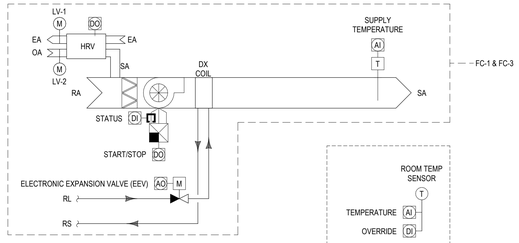
3 REFRIGERANT PIPING & WIRING DIAGRAM
NTS

CONTROL LEGEND

ADJ	ADJUSTABLE
AFMS	AIR FLOW MEASURING STATION
AI	ANALOG INPUT
ALM	ALARM
AO	ANALOG OUTPUT
AVG	AVERAGE/AVERAGING
B	BOILER
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CH	CHILLER
CS	CURRENT SWITCH
CT	CURRENT TRANSDUCER/ COOLING TOWER
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT
DEM	DIGITAL ENERGY MONITOR
DMPR	DAMPER
DO	DIGITAL OUTPUT
DPT	DIFFERENTIAL PRESSURE TRANSDUCER
DPS	DIFFERENTIAL PRESSURE SWITCH
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ES	END SWITCH
F	FAN
HPS	HIGH PRESSURE SWITCH
HX	HEAT EXCHANGER
LPS	LOW PRESSURE SWITCH
LTD	LOW TEMPERATURE DETECTOR
M	MOTORIZED ACTUATOR
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
OA	OUTSIDE AIR
OCC	OCCUPANCY
P	PRESSURE/PUMP
RA	RETURN AIR
RE	RELAY
RF	RETURN FAN
RFP	REMOTE FIELD PANEL
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SC	STEAM COIL
SD	SMOKE DETECTOR
T	TEMPERATURE
TEC	TERMINAL EQUIPMENT CONTROLLER
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
XFMR	TRANSFORMER

P	PNEUMATIC ACTUATOR
	AIR FLOW MEASURING STATION
	CURRENT SENSOR
	DAMPER - BACKDRAFT
	DAMPER - OPPOSED
	DAMPER - PARALLEL
	DDC CONTROL POINT
M	MOTOR ACTUATOR
OR	ELECTRICAL FEEDERS
	END SWITCH
	HUMIDIFIER
	INLET VANES
M	MOTOR
	MANUAL MOTOR STARTER
	COMBINATION MOTOR STARTER
	PADDLE WHEEL FLOW SENSOR
	PITOT TUBE
-	SWITCH - SENSOR
	SENSOR
	SUN SHIELD
S	SOLENOID
	STRAP-ON SENSOR
R	RELAY
	RIGID SENSOR
	VALVE 2-WAY
	VALVE 3-WAY
	(COMMON PORT SOLID)
	WELL SENSOR
	WHIP SENSOR
	VORTEX FLOR SENSOR





FAN COIL UNIT (FC) CONTROL DIAGRAM

(FC-1, FC-2, FC-3)

SEQUENCE OF OPERATION:

THE EMCS INITIATES MODES OF OPERATION:

OCCUPIED MODE:
FCU FANS ARE ON CONTINUOUSLY AND MODULATE IN HEATING OR COOLING MODE AS REQUIRED TO MAINTAIN A ROOM TEMPERATURE OF 71°F (ADJ) WITH A 2°F (ADJ) DEAD BAND.
DAMPERS LV-1 AND LV-2 TO OPEN AND HRV TO RUN CONTINUOUSLY DURING OCCUPIED TIMES.

UNOCCUPIED MODE:
FCU FANS ARE OFF.
FCU ELECTRONIC EXPANSION VALVE (EEV) IS CLOSED.
HRV IS OFF AND LV-1 AND LV-2 TO CLOSE.

OVERRIDE MODE:
IF THE OVERRIDE BUTTON ON ANY FCU ZONE CONTROLLER IS PRESSED, THAT ZONE RETURNS TO OCCUPIED MODE FOR A NIGHT OVERRIDE TIME OF 60 MINUTES (ADJ). MULTIPLE PRESSES OF AN OVERRIDE BUTTON RESTARTS THE TIMER FROM THE LAST BUTTON PRESS. HRV TO RUN IN OVERRIDE MODE. DAMPERS LV-1 AND LV-2 TO OPEN.

NIGHT WARM-UP MODE:
FANS FOR ZONES THAT ARE BELOW 55°F START AND RUN CONTINUOUSLY AND THE FCU MODULATES THE HEAT OUTPUT AS REQUIRED TO ACHIEVE A ROOM TEMPERATURE OF 65°F (ADJ). ONCE THE SPACE TEMPERATURE RISES REACHES 65°F (ADJ), THAT ZONE RETURNS TO UNOCCUPIED MODE.

ALARMS REPORTED:
-FAN FAILURE
-MOISTURE SENSOR
-HRV FAILURE

TRENDS TO BE LOGGED:
-SPACE TEMPERATURE

4 FAN COIL CONTROL DIAGRAM
NTS

REMOTE

(T) SPACE THERMOSTAT SETPOINT = 80°F (ADJ)

VENTILATION OPERATING MATRIX

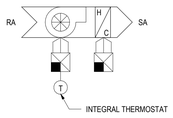
SPACE TEMP > 80°F	
DEVICE	STATUS
MAKE-UP AIR DAMPER	OPEN
VENT FAN DAMPER	OPEN
EF-4	ON

MANUAL INDICATION AND CONTROL:
OVERRIDE EF-4 (ON/OFF)

AUTOMATED CONTROL:
UPON EF-4 STATUS = ON, DAMPERS OPEN AND FAN STARTS.
FAN RUNS UNTIL SPACE TEMPERATURE SET POINT IS REACHED THEN FAN SHALL STOP AND DAMPERS SHALL CLOSE.
DAMPERS SHALL CLOSE ON LOSS OF POWER.
INTEGRATE WITH UNIT HEATERS IN SPACE TO PREVENT SIMULTANEOUS HEATING AND COOLING.
PROVIDE DEAD BAND OF 10°F (ADJ) BETWEEN HEATING AND COOLING SET POINTS.

ALARMS:
EF-4 STATUS ≠ COMMAND GENERATES A MAINTENANCE ALARM
ROOM BELOW 40°F FOR 15 MINUTES GENERATES A MAINTENANCE ALARM.

5 ELECTRICAL ROOM VENTILATION CONTROL
NTS



UNIT HEATER CONTROL DIAGRAM

(UH-1, UH-2, UH-3, UH-4)

SEQUENCE OF OPERATION

IF THE ROOM TEMPERATURE DROPS BELOW 50°F (ADJ), THE FAN SHALL RUN AND THE HEATING COIL SHALL BE ENERGIZED.
IF THE ROOM TEMPERATURE RISES 5°F (ADJ) ABOVE THE ROOM TEMPERATURE SETPOINT, DE-ENERGIZE THE HEATING COIL, AND TURN OFF THE FAN AFTER 1 MIN (ADJ).

6 ELECTRIC UNIT HEATER CONTROL DIAGRAM
NTS

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MECHANICAL DIAGRAMS

SHEET TITLE

SCC TRANSIT CENTER
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ABBREVIATIONS

LETTER	NAME
°	PHASE
A	ABOVE COUNTER / AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AIC	INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
B	BELOW COUNTER
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BOD	BOTTOM OF DEVICE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLK	CLOCK
COD	CENTER OF DEVICE
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CT	CURRENT TRANSFORMER
CU	COPPER
DDC	DIRECT DIGITAL CONTROL FOR BLDG HVAC SYSTEMS
DIA	DIAMETER
DISC	DISCONNECT
DMPR	DAMPER
DN	DOWN
DW	DISHWASHER
E	EXISTING TO REMAIN
EA	EACH
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRIC
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC CONDUIT
ENCL	ENCLOSURE
EQPM	EQUIPMENT
ER	EXISTING TO BE REMOVED
EXP	EXPLOSION PROOF
EXST	EXISTING
FA	FIRE ALARM
FDR	FEEDER
FLA	FULL LOAD AMPERES
FLR	FLOOR
FO	FIBER OPTIC
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND FAULT CIRCUIT INTERRUPT/GROUND
GALV	GALVANIZED
GEN	GENERATOR
GFP	GROUND FAULT PROTECTION
GFPR	GROUND FAULT PROTECTION RELAY
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HORZ	HORIZONTAL
HP	HORSEPOWER
HZ	HERTZ (CYCLES PER SECOND)
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IN	INCH / INCHES
JBOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILO-VOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LC	LIGHTING CONTROL
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MW	MICROWAVE
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL EQUIP. MANUFACTURER'S ASSOC.
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OL	OVERLOAD
PB	PULL BOX
PF	POWER FACTOR
PKG	PACKAGE
PNL	PANEL
PR	PAIR
PWR	POWER
R	EXISTING TO BE RELOCATED
RCPT	RECEPTACLE
REF	REFRIGERATOR
REV	REVISION
RM	ROOM
SCCR	SHORT-CIRCUIT CURRENT RATING
SHT	SHEET
SIM	SIMILAR
SPD	SURGE PROTECTIVE DEVICE
SPKR	SPEAKER
SS	STAINLESS STEEL
ST	SHUNT TRIP
STBY	STANDBY
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYS	SYSTEM
TBB	TELEPHONE BONDING BACKBONE
TC	TIME CLOCK
TEL	TELEPHONE
THK	THICK
THRU	THROUGH
TOD	TOP OF DEVICE
TGB	TELECOMMUNICATIONS GROUND BAR
TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFY	VERIFY
VFD	VARIABLE FREQUENCY DRIVE
VR	VANDAL RESISTANT
WP	WEATHERPROOF
WPA	WEATHERPROOF, ACTIVE
XFMR	TRANSFORMER
Z	IMPEDANCE

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
GENERAL	
(#)	SHEET NOTE
	RACEWAY CONCEALED IN WALL/CEILING
	RACEWAY CONCEALED IN/BELOW FLOOR
	RACEWAY FOR EMERGENCY LIGHTING
	CABLE TRAY
	CONDUIT UP,VERTICAL TRANSITION
	CONDUIT DOWN,VERTICAL TRANSITION
	CONDUIT CAPPED
	CONDUIT HAZARDOUS AREA SEAL
X:#	HOME RUN X = PANELBOARD # =BRANCH CIRCUIT NUMBER(S)
J	JUNCTION BOX
	SURFACE RACEWAY (DEVICES SHOWN)
	FLUSH FLOOR BOX (DEVICES SHOWN)
	ROUND POKE THRU (DEVICES SHOWN)
	POWER POLE
V	VAULT
PB	PULL BOX
ONE-LINE DIAGRAM	
	TRANSFORMER
	DELTA
	WYE
	OPEN DELTA
	CURRENT TRANSFORMER
	RESISTOR
	CAPACITOR
	NORMALLY OPEN CONTACTOR
	NORMALLY CLOSED CONTACTOR
30A/3P	CIRCUIT BREAKER NUMBER INDICATES TRIP AND POLES
30A/3P	DISCONNECT SWITCH
30A	FUSE WITH RATING
30A	FUSED DISCONNECT WITH RATING
	MOTOR THERMAL OVERLOADS
	SEPARABLE CONNECTOR
	GROUND CONNECTION
GF	GROUND PROTECTION RELAY
ST	SHUNT TRIP
	AUTOMATIC TRANSFER SWITCH
M	POWER METER
R	RELAY
VFD	VARIABLE FREQUENCY DRIVE
X	FEEDER CALLOUT

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
LIGHTING	
ID x	LUMINAIRE: ID = FIXTURE TYPE x = SWITCH ASSOCIATION
	2'x4' RECESSED LUMINAIRE
	2'x4' RECESSED LUMINAIRE, EMERGENCY
	2'x4' SURFACE-MTD LUMINAIRE
	2'x4' SURFACE MTD LUMINAIRE, EMERGENCY
	2'x4' RECESSED LUMINAIRE
	2'x4' RECESSED LUMINAIRE, EMERGENCY
	2'x2' RECESSED LUMINAIRE
	2'x2' RECESSED LUMINAIRE, EMERGENCY
	1'x4 RECESSED LUMINAIRE
	1'x4' RECESSED LUMINAIRE, EMERGENCY
	1'X4' SURFACE MTD LUMINAIRE
	1'X4' SURFACE MTD LUMINAIRE, EMERGENCY
	PENDANT-MTD/SUSPENDED LUMINAIRE
	PENDANT-MTD/SUSPENDED LUMINAIRE, EMERGENCY
	WALL-MTD LUMINAIRE
	WALL-MTD LUMINAIRE, EMERGENCY
	STRIP LIGHTING LUMINAIRE
	STRIP LIGHTING LUMINAIRE, EMERGENCY
	CEILING-MTD DIRECTIONAL LUMINAIRE
	CEILING-MTD LUMINAIRE
	CEILING-MTD LUMINAIRE, EMERGENCY
	TRACK LIGHT WITH NUMBER OF HEADS SHOWN
	WALL-MTD LUMINAIRE
	WALL-MTD LUMINAIRE, EMERGENCY
	EXIT SIGN WITH ARROW INDICATING DIRECTION OF EGRESS
	WALL-MTD EXIT SIGN
	CEILING-MTD EXIT SIGN
	BATTERY POWERED EMERGENCY LIGHT
	POLE-MTD FIXTURE - ARROW INDICATES AIM
	BOLLARD WITH LIGHT
	EXTERIOR LANDSCAPE LUMINAIRE
$x	WALL SWITCH: X = AS FOLLOWS: 3 - THREE-WAY 4 - FOUR-WAY D - DIMMER K - KEY-OPERATED LV - LOW-VOLTAGE LVM - LOW-VOLTAGE MASTER M - MOTOR STARTER WITH OVERLOADS MC - MOMENTARY CONTACT O - OCCUPANCY SENSOR P - PILOT LIGHT WP - WEATHERPROOF a - LOWER-CASE INDICATES SWITCHING CNTRL
$	SINGLE-POLE WALL SWITCH
PC	PHOTOCELL CONTROL
OS	OCCUPANCY SENSOR
TC	TIME CLOCK LIGHTING
	CONTROL PANEL
	LIGHT FIXTURE IN DAYLIGHT ZONE (WITHIN 15' OF WINDOW)
R XXX.X	LIGHTING CONTROL PANEL NORMAL POWER RELAY CALLOUT
ER XXX.X	LIGHTING CONTROL PANEL EMERGENCY POWER RELAY CALLOUT

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
POWER	
X	RECEPTACLE OUTLET: X = AS FOLLOWS: A - ABOVE COUNTER, REFER TO ARCHITECTURAL C - CEILING EP - EXPLOSION PROOF G - GROUND FAULT CIRCUIT INTERRUPT T - TAMPER PROOF WP - WEATHERPROOF MW - MICROWAVE - REFER TO ARCHITECTURAL U - INTEGRAL USB PORT, 125V , 20A
	SWITCHED SINGLE RECEPTACLE, 125V, 20A
	SINGLE RECEPTACLE, 125V, 20A
	DUPLEX RECEPTACLE, 125V, 20A
	DOUBLE-DUPLEX RECEPT, 125V, 20A
	CEILING-MTD SINGLE RECEPTACLE, 125V, 20A
	CEILING-MTD DUPLEX RECEPTACLE, 125V, 20A
	CEILING-MTD DOUBLE-DUPLEX RECEPTACLE, 125V, 20A
X	SPECIAL PURPOSE RECEPTACLE X = TYPE
J	POLE-MOUNT GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE
M	MOTOR CONNECTION
	EQUIPMENT CONNECTION
	DISCONNECT SWITCH
	STARTER
	COMBINATION STARTER
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	480V PANELBOARD
	208V OR 240V PANELBOARD
T	TRANSFORMER
HH	HANDHOLE
XXXX	MECHANICAL EQUIPMENT CALLOUT

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
COMMUNICATION	
x	DATA OUTLET, 2-PORTS UNO X = NUMBER OF PORTS (OTHER THEN 2)
	TELEPHONE OUTLET
	WIRELESS ACCESS POINT
P	CEILING MOUNTED PROJECTOR
AV	AV CABINET
SECURITY	
	MAGNETIC DOOR CONTACTS
C	DOOR CONTACT
CR	CARD READER
K	KEYPAD
MR	SECURITY MONITOR
CAM	CCTV SECURITY VIDEO CAMERA
S	CEILING MOUNTED SECURITY ALERT STROBE
S	WALL MOUNTED SECURITY ALERT STROBE
S	SECURITY ALERT SIREN
E	ELECTRIC STRIKE
M	SECURITY MOTION DETECTOR, WALL MOUNTED
M	SECURITY MOTION DETECTOR 360°, CEILING MOUNTED
AUX SYSTEMS	
S	INTERCOM SPEAKER VR- VANDAL RESISTANT
IS	IP INTERCOM WALL-MOUNTED SPEAKER
IS	INTERCOM WALL-MOUNTED SPEAKER
V	VOLUME CONTROL
I	INTERCOM VIDEO STATION
S	SOUND REINFORCEMENT SPEAKER
TS	TEACHER STATION
AC	AUDIO CONTROL
M	MICROPHONE JACK
MA	MICROPHONE/AUXILIARY
	CLOCK
	CLOCK AND SPEAKER COMBINATION
	CLOCK - CEILING MOUNTED, DOUBLE FACED
OR	PUSH BUTTON
B	PAGING BELL
	ANTENNA

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
FIRE ALARM	
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT TYPE SMOKE DETECTOR
T	SMOKE BEAM TRANSMITTER
R	SMOKE BEAM RECEIVER
F	FIRE ALARM MANUAL PULL STATION
	FIRE SMOKE DAMPER
	FIRE ALARM WALL-MOUNTED STROBE
	FIRE ALARM CEILING-MOUNTED STROBE
	FIRE ALARM WALL-MOUNTED SPEAKER
	FIRE ALARM CEILING-MOUNTED SPEAKER
	FIRE ALARM WALL-MTD SPEAKER STROBE
	FIRE ALARM CEILING-MOUNTED SPEAKER STROBE
	FIRE ALARM WALL-MOUNTED BELL
	FIRE ALARM WALL-MOUNTED BELL STROBE
DH	MAGNETIC DOOR HOLDER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FS	SPRINKLER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
PS	SPRINKLER PRESSURE
PIV	SWITCH POST INDICATOR VALVE
R	ADDRESSABLE RELAY INTERFACE
	POST INDICATOR VALVE

Sheet List

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E-002	GENERAL ELECTRICAL NOTES
E-100	ELECTRICAL SITE DEMO PLAN
E-101	ELECTRICAL SITE PLAN
EL-111	LIGHTING PLAN
EP-111	POWER PLAN
ET-111	SYSTEMS PLAN
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-600	ONE-LINE DIAGRAM
E-701	LIGHTING AND MECHANICAL SCHEDULE
E-702	PANEL SCHEDULES

DEVICE MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.

DEVICE	MOUNTING HEIGHT
RECEPTACLES	18 INCHES VERITCALLY MOUNTED
LIGHT SWITCHES	48 INCHES VERTICALLY MOUNTED
PANELBOARDS	72 INCHES TO TOP OF PANELBOARD
TELEPHONE OUTLET - DESK	18 INCHES VERTICALLY MOUNTED
TELEPHONE OUTLET - WALL	54 INCHES VERTICALLY MOUNTED
COMPUTER OUTLET - DESK	18 INCHES VERTICALLY MOUNTED
FIRE ALARM PULL STATION	48 INCHES
INTERCOM CALL BUTTON	48 INCHES
DIGITAL CLOCK/SPEAKER	PER ARCHITECTURAL INTERIOR ELEVATIONS
ANALOG CLOCK	PER ARCHITECTURAL INTERIOR ELEVATIONS
CATV OUTLET	18 INCHES VERTICALLY MOUNTED
KEYPAD/CARD READER	48 INCHES
FIRE ALARM HORN, STROBE OR HORN/STROBE	NOT LESS THAN 80" OR GREATER THAN 96" TO THE BOTTOM
FIRE ALARM CONTROL PANEL	72 INCHES
DOOR OPERATOR PUSH BUTTON	48 INCHES OR AS SHOWN ON ARCHITECTURAL ELEVATIONS

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STAMP

SHEET TITLE: SYMBOLS LEGEND, ABBREVIATIONS AND SHEET INDEX

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
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SPOKANE, WA. 99217

Spokane Transit Authority
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DRAWN MJG
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SHEET E-001

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS

1. REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.
3. ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC.
4. CATALOG NUMBERS USED IN SYMBOLS LIST AND FIXTURE SCHEDULE ARE TO BE AS NOTED OR APPROVED EQUALS. MAINTAIN SPECIFIED GRADE.
5. IT IS THE INTENT OF THE ELECTRICAL CONTRACT DOCUMENTS THAT ALL ELECTRICAL SYSTEMS ARE INSTALLED COMPLETE, TESTED AND READY FOR OPERATION, UNLESS SPECIFICALLY NOTED OTHERWISE AND WHETHER OR NOT EVERY ITEM OF EQUIPMENT, DEVICE, BOX, ETC. IS SHOWN ON THE PLANS. ELECTRICAL SUBCONTRACTOR SHALL BE ON THE PREMISES OPENING DAY.
6. LOCATIONS OF ALL DEVICES ARE SHOW SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, ELEVATIONS AND CASEWORK, SUPPLIER'S SHOP DRAWINGS FOR EXACT LOCATION PRIOR TO ROUGH-IN. WHERE OUTLET GROUPINGS OCCUR, MOUNT BOXES AS CLOSE TO EACH OTHER AS PRACTICAL. OUTLETS SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMUM LATERAL SEPARATION OF 12" OR (1) STUD SPACE. CONNECT OUTLETS WITH FLEX STEEL CONDUIT. ON FIRE WALLS SEPARATION MUST BE 24".
7. SEAL ALL PENETRATIONS IN RATED WALLS, FLOORS AND CEILINGS WITH A UL APPROVED FIRE STOP SYSTEM.
8. PROVIDE A 220 LB NYLON JET PULL STRING IN ALL EMPTY RACEWAYS.
9. PROVIDE EMT RACEWAY FOR WIRING RUNNING THROUGH WALLS, FLOOR, AND CEILINGS.
10. ALL CONDUIT AND RACEWAY SHALL BE RUN CONCEALED UNLESS NOTED OTHERWISE AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, CEILINGS, OR FLOORS. NO STRUCTURAL MEMBER SHALL BE CUT OR ALTERED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
11. ALL CONDUIT BELOW CONCRETE SLABS SHALL BE RIGID, HOT-DIPPED GALVANIZED STEEL CONDUIT OR RIGID, CODE APPROVED PVC.
12. THE INSTALLATION SHALL COMPLY WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), THE STATE OF WASHINGTON ADMINISTRATIVE CODE, THE AUTHORITY HAVING JURISDICTION, AND UTILITY REQUIREMENTS.
13. THE CONTRACTOR SHALL ENSURE THAT THE ENTIRE ELECTRICAL SYSTEM FOR THIS BUILDING IS GROUNDED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ARTICLE 250 OF THE N.E.C.
14. WORKING SPACE ABOUT ELECTRICAL PANELS, SWITCHGEAR, ETC SHALL COMPLY WITH NEC ARTICLE 110.26.
15. ALL LUMINAIRES SHALL BE SECURELY FASTENED AND IN COMPLIANCE WITH ARTICLE 410-16 OF THE 2014 NEC.
16. CONNECTION TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY THE U.L. LABEL. NO.12 AWG SHALL BE THE MINIMUM SIZE USED FOR POWER WIRING. NO.14 AWG MAY BE USED FOR CONTROL WIRING ONLY. 120 AND 277V CIRCUITS IN EXCESS OF 100' SHALL BE #10 AWG (OR LARGER AS INDICATED) FROM PANEL BOARD TO FIRST OUTLET.
17. ALL MULTI-WIRE CIRCUITS SHALL BE WIRED SO DEVICES MAY BE REMOVED WITHOUT BREAKING CONTINUITY OF NEUTRAL CONDUCTOR OR ELSE BE ON A COMMON TRIP BREAKER.
18. PROVIDE UN-SWITCHED PHASE CONDUCTOR TO ALL EXIT SIGNS AND INDICATED LUMINAIRES WITH GENERATOR TRANSFER DEVICES.
19. PROVIDE ALL EXPANSION FITTINGS, PITCH POCKETS, EQUIPMENT SUPPORTS, AND ACCESS DOORS AS REQUIRED FOR ELECTRICAL WORK.
20. PROVIDE EQUIPMENT LABELS FOR DISCONNECT SWITCHES, WIRING TROUGHS, ETC. TO IDENTIFY EQUIPMENT OR EQUIPMENT SERVED. LABELS SHALL BE 1/8" THICK OF PHENOLIC MATERIAL, MACHINE ENGRAVED TO EXPOSE CONTRASTING INNER CORE.
21. MECHANICAL EQUIPMENT POWER CONTROL DEVICES (STARTERS AND COMBINATION STARTERS) AND UNIT DISCONNECTS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE EQUIPMENT SCHEDULE.
22. ELECTRICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPY OF FINAL INSPECTION REPORT TO THE OWNER.
23. NOT ALL LEGEND AND ABBREVIATIONS ARE NECESSARY OR REQUIRED FOR THIS DRAWING SET.
24. WHERE A CONFLICT EXISTS WITHIN THE DOCUMENTS, THE MOST EXPENSIVE OPTION SHALL GOVERN.
25. ELECTRICAL CONTRACTOR SHALL TOUR THE PROJECT SITE PRIOR TO BID TO ASSESS EXISTING CONDITIONS, WHICH MAY AFFECT HIS BID. LATER CLAIMS FOR WORK THAT WAS EVIDENT WILL NOT BE ALLOWED.
26. ITEMS NOTED AS "TYPICAL" ON ANY DRAWING REFERS TO ALL DRAWINGS.
27. PROVIDE NYLON PULL STRING IN ALL EMPTY RACEWAYS.
28. NO STRUCTURAL MEMBERS SHALL BE CUT OR ALTERED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
29. ALL RACEWAYS WITHIN THE BUILDING SHALL BE RUN OVERHEAD U.O.N. RACEWAYS SHALL NOT BE RUN UNDER THE FLOOR SLAB UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
30. NO RACEWAYS SHALL BE RUN IN FLOOR SLABS.
31. LOCATIONS OF ALL WALL MOUNTED DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, ELEVATIONS AND CASEWORK SUPPLIERS SHOP DRAWINGS FOR EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
32. ALL RACEWAYS IN FINISHED SPACES SHALL BE CONCEALED.
33. PROVIDE 2" EMT SLEEVES FOR LOW VOLTAGE WIRING RUNNING THROUGH NON-RATED WALLS, FLOORS AND CEILINGS.
34. PROVIDE A COMPLETE DESIGN-BUILD PATHWAY SYSTEM FOR ALL SPECIAL SYSTEMS WIRING, SEE SPECIFICATIONS. QUANTITY AND SIZE OF RACEWAYS SHOWN ON SPECIAL SYSTEMS PLANS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL RACEWAYS AS REQUIRED.
35. MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPLASH UNLESS NOTED OTHERWISE.

BRANCH CIRCUIT WIRING

THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS

1. IN GENERAL ONLY CIRCUIT NUMBERS HAVE BEEN SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RACEWAYS AND WIRING.
2. SHOW ALL RACEWAYS AND WIRING ON AS-BUILT DRAWINGS.
3. GENERAL:
   - 3.1 MINIMUM RACEWAY SIZE SHALL BE 1/2".
   - 3.2 NO MORE THAN 7 #12 AWG CONDUCTORS SHALL BE INSTALLED IN A RACEWAY.
   - 3.3 HOMERUNS GREATER THAN 75 FEET TO THE FIRST DEVICE SHALL BE NO. 10 AWG.
   - 3.4 LIGHTING, POWER, AND MECHANICAL EQUIPMENT CONDUCTORS SHALL NOT BE COMBINED IN THE SAME RACEWAY.
   - 3.5 PROVIDE A GROUND CONDUCTOR IN ALL RACEWAYS.
   - 3.6 PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
4. LIGHTING:
   - 4.1 PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING AND SWITCHING DUTY AS SHOWN ON THE DRAWINGS.
   - 4.2 PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
5. POWER:
   - 5.1 PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING SHOWN.
   - 5.2 FOR OTHER THAN 15 OR 20 AMP SINGLE PHASE RECEPTACLE BRANCH CIRCUITS PROVIDE A DEDICATED HOMERUN TO THE PANEL.
   - 5.3 FOR 30 AMP BRANCH CIRCUITS PROVIDE #10 AWG CONDUCTORS.
   - 5.4 FOR 40 AMP AND LARGER BRANCH CIRCUITS PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE DRAWINGS.
   - 5.5 PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
6. MECHANICAL EQUIPMENT: PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE MECHANICAL EQUIPMENT SCHEDULE.

DEMOLITION PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL POWER PLAN DRAWINGS

1. THE CONTRACT DOCUMENTS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND ESTABLISH THE EXTENT OF DEMOLITION PRIOR TO BID.
2. WHERE "ALL ELECTRICAL SYSTEMS" ARE NOTED TO BE REMOVED FROM AN AREA REMOVE ALL FIXTURES, DEVICES, EQUIPMENT, RACEWAYS, AND WIRING UNLESS OTHERWISE NOTED.
3. REMOVE ALL ELECTRICAL DISTRIBUTION EQUIPMENT, RACEWAYS, AND CONDUCTORS AS SHOWN ON THE EXISTING ONE-LINE DIAGRAM.
4. REMOVE ALL TEMPORARY WORK INSTALLED DURING THE COURSE OF CONSTRUCTION.
5. REMOVE CONNECTIONS TO MECHANICAL EQUIPMENT AS SHOWN ON THE MECHANICAL DEMOLITION PLANS.
6. FOR EXISTING DEVICES TO BE DEMOLISHED. REMOVE DEVICE, RACEWAY AND WIRING BACK TO SOURCE, UON.
7. WHERE EXISTING RECEPTACLES ARE REMOVED, MAINTAIN CONTINUITY TO RECEPTACLES ON THE SAME CIRCUIT TO REMAIN.
8. WHERE EXISTING LUMINAIRES ARE REMOVED, MAINTAIN CONTINUITY TO FIXTURES ON THE SAME CIRCUIT TO REMAIN.
9. WHERE EXISTING LOW VOLTAGE DEVICES ARE REMOVED, MAINTAIN CONTINUITY TO OTHER DEVICES.
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE EXISTING ELECTRICAL EQUIPMENT WITH THE GENERAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL PANELS AND SWITCHBOARDS AND SHALL VERIFY ALL POWER IS DEAD IN AREAS BEFORE THE DEMOLITION BEGINS. ALL ELECTRICAL EQUIPMENT FROM THE MAIN SERVICE TO AND INCLUDING THE BRANCH CIRCUIT PANELS SHALL BE DEMOLISHED BY THE ELECTRICAL CONTRACTOR. CIRCUITS AND EQUIPMENT FROM THE BRANCH PANELS ON OUT SHALL BE DEMOLISHED BY THE ELECTRICAL CONTRACTOR. ALL EXISTING CONDUITS, WIRE, PANELS, DEVICES, LIGHTING FIXTURES, EXCEPT WHERE NOTED, ARE TO BE REMOVED UNLESS OTHERWISE NOTED.
11. EXISTING CONDUITS CAN BE REUSED IF POSSIBLE. PULL IN ALL NEW WIRE.
12. ALL CONDUCTORS WILL BE REMOVED FROM ABANDONED CONDUITS.
13. ALL ABANDONED SURFACE MOUNTED BOXES WILL BE FILLED IN TO MATCH EXISTING WALLS.
14. REFER TO ARCHITECTURAL DEMOLITION PLAN FOR EXISTING BUILDING LAY OUT.
15. ALL EXISTING ELECTRICAL EQUIPMENT REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR REMOVED FROM SITE AS DIRECTED.
16. EXACT LOCATION OF EXISTING EQUIPMENT MAY VERY FROM LOCATIONS AS INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS THAT MAY RESULT IN A CONFLICT WITH NEW EQUIPMENT AND REVISE EXISTING DEVICE TO ACCOMODATE NEW INSTALLATION.
17. EVERY EFFORT HAS BEEN MADE TO COORDINATE EXISTING ELECTRICAL INFORMATION. HOWEVER, DISCREPANCIES MAY EXIST BETWEEN ACTUAL AND SHOWN CONDITIONS AND ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHOULD EXPECT MINOR DEVIATIONS TO OCCUR AND IS EXPECTED TO WORK THROUGH THEM WITH ASSISTANCE FROM THE OWNER AND ELECTRICAL ENGINEER.

SITE PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL SITE PLAN DRAWINGS

1. COORDINATE ROUTING OF UNDERGROUND RACEWAYS WITH ALL NEW AND EXISTING UTILITIES. REFER TO CIVIL DRAWINGS.
2. CONTRACT WITH A LOCATOR SERVICE TO MARK THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
3. ALL SITE LIGHTING RACEWAYS SHALL BE 1" C. U.O.N.
4. ROUTE ALL SITE LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.
5. PROVIDE ALL REQUIRED CUTTING, PATCHING, EXCAVATION, COMPACTION, AND PATCHING FOR INSTALLATION OF UNDERGROUND RACEWAYS AND UTILITY SERVICES.
6. BACKFILL ALL TRENCHES (INCLUDING THOSE FOR UTILITY SERVICES) WITH STRUCTURAL BACKFILL OR GRAVEL BORROW PER WSDOT STANDARDS.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COORDINATION WITH THE SERVING UTILITY COMPANIES INCLUDING COMPLETING AND SUBMITTING ALL NECESSARY APPLICATIONS FOR SERVICE.
8. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND EASEMENTS.

LIGHTING PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL LIGHTING PLAN DRAWINGS

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRES.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF EXTERIOR LUMINAIRES.
3. ROUTE ALL EXTERIOR LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.
4. INSTALL AND WIRE REMOTE BALLASTS AND DRIVERS. REFER TO LUMINAIRE SCHEDULE. MOUNT IN ACCESSIBLE LOCATIONS. SHOW LOCATIONS ON THE AS-BUILT DRAWINGS.
5. ALL OCCUPANCY SENSORS SHALL HAVE AUXILIARY OUTPUT CONTACTS FOR MECHANICAL LOADS.
6. NOT ALL LIGHTING CONTROL SYSTEM LOW VOLTAGE WIRING HAS BEEN SHOWN. PROVIDE ALL NECESSARY CABLING FOR A FULLY OPERATIONAL LIGHTING CONTROL SYSTEM.

POWER PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL POWER PLAN DRAWINGS

1. CIRCUIT ALL FIRE/SMOKE DAMPERS AND SMOKE DAMPERS FROM NEAREST 120V EMERGENCY PANEL WITH 1/2"-3#12. UTILIZE SPARE 20A-1P BREAKER PROVIDED. RECORD CIRCUITING ON AS-BUILT DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR DAMPER LOCATIONS.
2. COORDINATE LOCATIONS OF BAS CONTROL POWER WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.
3. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR EQUIPMENT RATINGS AND FEEDER SIZES.
4. PROVIDE DISCONNECT SWITCH OR COMBINATION STARTER FOR EACH PIECE OF EQUIPMENT AS SHOWN ON MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
5. PRIOR TO ROUGH-IN OF ALL EQUIPMENT SPECIFIED BY OTHER DIVISIONS, COORDINATE WITH THE EQUIPMENT MANUFACTURER TO ESTABLISH ALL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.
6. ALL EXTERIOR RECEPTACLES SHALL BE WP/GFI.
7. ALL VENDING MACHINE RECEPTACLES SHALL BE GFI.
8. ALL EXTERIOR DISCONNECTS/STARTERS SHALL BE NEMA 3R.
9. ALL HOMERUNS OVER 75' SHALL BE #10 AWG MINIMUM.
10. POWER AND SPECIAL SYSTEMS TO SHARE A COMMON FLOOR BOX.
11. FEEDER ROUTING SHOWN IS APPROXIMATE. COORDINATE WITH MECHANICAL SYSTEMS AND BUILDING STRUCTURE. PROVIDE OFFSETS AS REQUIRED.
12. ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GFI TYPE.
13. COORDINATE WITH THE ELEVATOR SHOP DRAWINGS AND THE ELEVATOR INSPECTOR PRIOR TO ROUGH-IN OF THE ELEVATOR MACHINE ROOM.
14. ALL HEAT TRACE CIRCUITS SHALL BE FED WITH GFPE CIRCUIT BREAKERS.

SYSTEMS PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL SPECIAL SYSTEMS PLAN DRAWINGS

1. MINIMUM RACEWAY SIZE SHALL BE 1" FOR TELECOMMUNICATIONS CABLING AND 3/4" FOR ALL OTHER SYSTEMS.
2. ALL SPECIAL SYSTEMS WIRING SHALL BE RUN UTILIZING OPEN WIRING METHOD ABOVE ACCESSIBLE CEILINGS. PROVIDE METALLIC RACEWAYS FOR WIRING INSTALLED IN WALLS, ABOVE INACCESSIBLE CEILING, WHERE EXPOSED OR WHERE SUBJECT TO PHYSICAL DAMAGE. RACEWAY FILL SHALL NOT EXCEED 40%.
3. PROVIDE ADDRESSABLE MODULE AT EACH FIRE/SMOKE DAMPER (FSD) AND SMOKE DAMPER (SD) LOCATION. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
4. PROVIDE FA CONNECTION TO FIRE SPRINKLER TAMPER, FLOW, AND PRESSURE SWITCHES. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS.
5. PROVIDE 3/4" A-C FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE MDF AND EACH IDF. MOUNT 8' DIMENSION VERTICAL. PAINT FLAT WHITE.
6. PROVIDE 1" C. FROM EACH FLOOR BOX TO ACCESSIBLE CEILING LOCATION. THIS IS IN ADDITION TO THE RACEWAYS SHOWN ON THE DRAWINGS.
7. ALL EXTERIOR FIRE ALARM AND INTERCOM DEVICES SHALL BE WEATHERPROOF.
8. PROVIDE EXTERIOR FIRE ALARM BELL AND STROBE AT LOCATION DIRECTED BY FIRE MARSHALL.
9. STAPLES SHALL NOT BE USED TO SECURE LOW VOLTAGE CABLING.
10. EXTERIOR INTERCOM SPEAKERS SHALL BE WEATHERPROOF AND VANDAL RESISTANT.

EQUIPMENT CONNECTIONS

1. VERIFY ELECTRICAL REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH-IN.
2. INSTALL AND WIRE EQUIPMENT PER MANUFACTURER SHOP DRAWINGS.
3. PROVIDE ALL RACEWAYS, WIRING AND ANCILLARY EQUIPMENT AS SHOWN ON MANUFACTURER SHOP DRAWINGS.

ONE-LINE DIAGRAM

1. PROVIDE PULL BOXES AS REQUIRED BY THE NEC.
2. SHORT CIRCUIT CURRENTS LESS THAN 10,000 ASYM FOR 208V PANELS AND 14,000 ASYM FOR 480V PANELS ARE NOT SHOWN.
3. THE ONE-LINE DIAGRAM IS DIAGRAMMATIC AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
4. FOR TWO SECTION PANELS PROVIDE FULL SIZE FEEDER CONNECTIONS FROM SECTION 1 TO SECTION 2.
5. ALL TRANSFORMERS ARE 480V 3 PHASE 3 WIRE PRIMARY: 208Y/120V 3 PHASE, 4 WIRE SECONDARY, NEMA TP-1 RATED, U.O.N.
6. ALL TRANSFORMERS SHALL BE K-4 RATED, U.O.N.
7. NOT ALL CIRCUIT BREAKERS ARE SHOWN. REFER TO PANEL AND SWITCHBOARD SCHEDULES FOR OTHER LOADS SERVED, AND SPARE CIRCUIT BREAKERS.
8. TEST ALL GROUND FAULT RELAYS AS REQUIRED BY THE WAC.
9. ALL CIRCUIT BREAKERS SERVING HID LIGHTING SHALL BE HID RATED.

DOOR HARDWARE

1. PROVIDE ALL RACEWAYS AND WIRING REQUIRED TO INSTALL ELECTRONIC DOOR HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS, SCHEDULES AND DIAGRAMS.

LUMINAIRE SCHEDULE GENERAL NOTES

1. THE UNDERLINED LUMINAIRE IN THE SCHEDULE REPRESENTS THE "BASIS OF DESIGN". ALL OTHER MANUFACTURERS LISTED MUST MEET OR EXCEED ALL REQUIREMENTS OF THE BASIS OF DESIGN.
2. VERIFY THE VOLTAGE OF ALL LUMINAIRES. REFER TO PLANS FOR SPECIFIC VOLTAGE REQUIREMENTS.
3. ALL LUMINAIRES TO BE PROVIDED WITH ALL ROUGH-IN AND TRIM ASSEMBLIES FOR A COMPLETE INSTALLATION.
4. ALL LUMINAIRES TO BE PROVIDED WITH A CUSTOM COLOR/FINISH AS SELECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED.
5. ALL LUMINAIRES TO BE UL LISTED AND LABELED. EXTERIOR LUMINAIRES TO BE UL "WET" LABELED.
6. LUMINAIRES SHALL BE PROVIDED WITH AN INTERNAL DISCONNECTING MEANS WHICH COMPLIES WITH NEC ARTICLE 410.
7. ALL FLUORESCENT AND HID BALLASTS TO BE PROVIDED WITH AN IN-LINE FUSE.
8. ALL LUMINAIRES TO HAVE AN INTEGRAL BALLAST UNLESS A REMOTE BALLAST IS SPECIFIED.
9. TANDEM OR THROUGH-WIRED BALLASTS ARE NOT ALLOWED. PROVIDE A SEPARATE BALLAST FOR EVERY 4' LUMINAIRE 'SECTION'.
10. PROVIDE WIRE GUARDS AND PLASTIC LAMP SLEEVES FOR ALL FLUORESCENT LINEAR STRIP LUMINAIRES.
11. FOR HID LUMINAIRES FED FROM THE GENERATOR PROVIDE QUARTZ RESTRIKE WITH STANDBY TIME DELAY PER UL 1598. QUARTZ LAMP IS KEPT ON UNTIL THE HID LAMP REACHES 80% OF FULL LIGHT OUTPUT.
12. ALL METAL HALIDE LAMPS/BALLASTS SHALL BE PULSE START.
13. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL INTERIOR ELEVATIONS AND THE CASEWORK MANUFACTURER SHOP DRAWINGS TO DETERMINE THE LENGTH OF UNDER COUNTER LIGHT LUMINAIRE.
14. REFER TO ARCHITECTURAL PLANS TO DETERMINE PENDANT LENGTH.
15. REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.
16. AIM ADJUSTABLE LUMINAIRES AS DIRECTED BY THE ENGINEER.

WASHINGTON STATE NONRESIDENTIAL ENERGY CODE COMPLIANCE

1. LIGHTING: THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION VERIFYING THAT ALL LAMPS AND BALLASTS HAVE BEEN PROVIDED PER THE SPECIFICATIONS. PROVIDE A LIST WHICH INDICATES THE EXACT PART NUMBER OF THE LAMP AND BALLAST PROVIDED FOR EACH FIXTURE TYPE. INCLUDE THE CERTIFICATION AND THE LAMP/BALLAST LIST IN THE O&M MANUAL.
2. COMMISSIONING REQUIREMENTS: ALL LIGHTING CONTROLS INCLUDING DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT OFF CONTROLS, OCCUPANCY SENSORS OR AUTOMATIC TIME SWITCHES, THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT CERTIFYING ALL LIGHTING CONTROLS HAVE BEEN COMMISSIONED. INCLUDE CERTIFICATION IN O&M MANUAL.
3. TRANSFORMERS: THE MINIMUM EFFICIENCY OF ALL LOW VOLTAGE DRY-TYPE DISTRIBUTION TRANSFORMERS SHALL BE THE CLASS 1 EFFICIENCY LEVELS FOR DISTRIBUTION TRANSFORMERS SPECIFIED IN TABLE 4-2 OF THE "GUIDE FOR DETERMINING ENERGY EFFICIENCY FOR DISTRIBUTION TRANSFORMERS" PUBLISHED BY THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA TP-1, LATEST EDITION).

MECHANICAL EQUIPMENT SCHEDULE GENERAL NOTES

1. INFORMATION PRESENTED IN THIS SCHEDULE IS BASED ON EQUIPMENT SELECTED BY THE MECHANICAL ENGINEER DURING THE DESIGN PROCESS (PRE-BID). THE ACTUAL EQUIPMENT SELECTED BY MECHANICAL CONTRACTOR MAY BE DIFFERENT. PRIOR TO ROUGH-IN, OR ORDERING EQUIPMENT, COORDINATE WITH THE MECHANICAL CONTRACTOR TO ESTABLISH THE ACTUAL LOAD AND OVERCURRENT PROTECTION REQUIREMENTS OF EACH PIECE OF EQUIPMENT.
2. ALL DISCONNECTS AND STARTERS ARE FUSED, UNLESS OTHERWISE NOTED.
3. ALL DISCONNECTS ARE 3-POLE UNLESS OTHERWISE NOTED.
4. DISCONNECT SWITCHES LOCATED OUTSIDE SHALL BE NEMA 3R. REFER TO MECHANICAL PLANS.
5. LOCATE ALL DISCONNECTING MEANS PER NEC 430-102B AND AHJ REQUIREMENTS.
6. FUSES SIZES SHOWN ARE APPROXIMATE. PROVIDE FUSES PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
7. VARIABLE FREQUENCY DRIVES ARE PROVIDED BY MECHANICAL AND INSTALLED BY ELECTRICAL, U.O.N.
8. ABBREVIATIONS
   - HRS: HORSEPOWER RATED MOTOR DISCONNECT WITH OVERLOAD PROTECTION
   - AS: AMPERE SWITCH
   - AF: AMPERE FUSE
9. WHERE NO STARTER IS LISTED STARTER TO BE PROVIDED BY MECHANICAL.

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STAMP

SHEET TITLE: GENERAL ELECTRICAL NOTES

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION: BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN MJG
CHECKED ZLY
DATE 02/10/2019

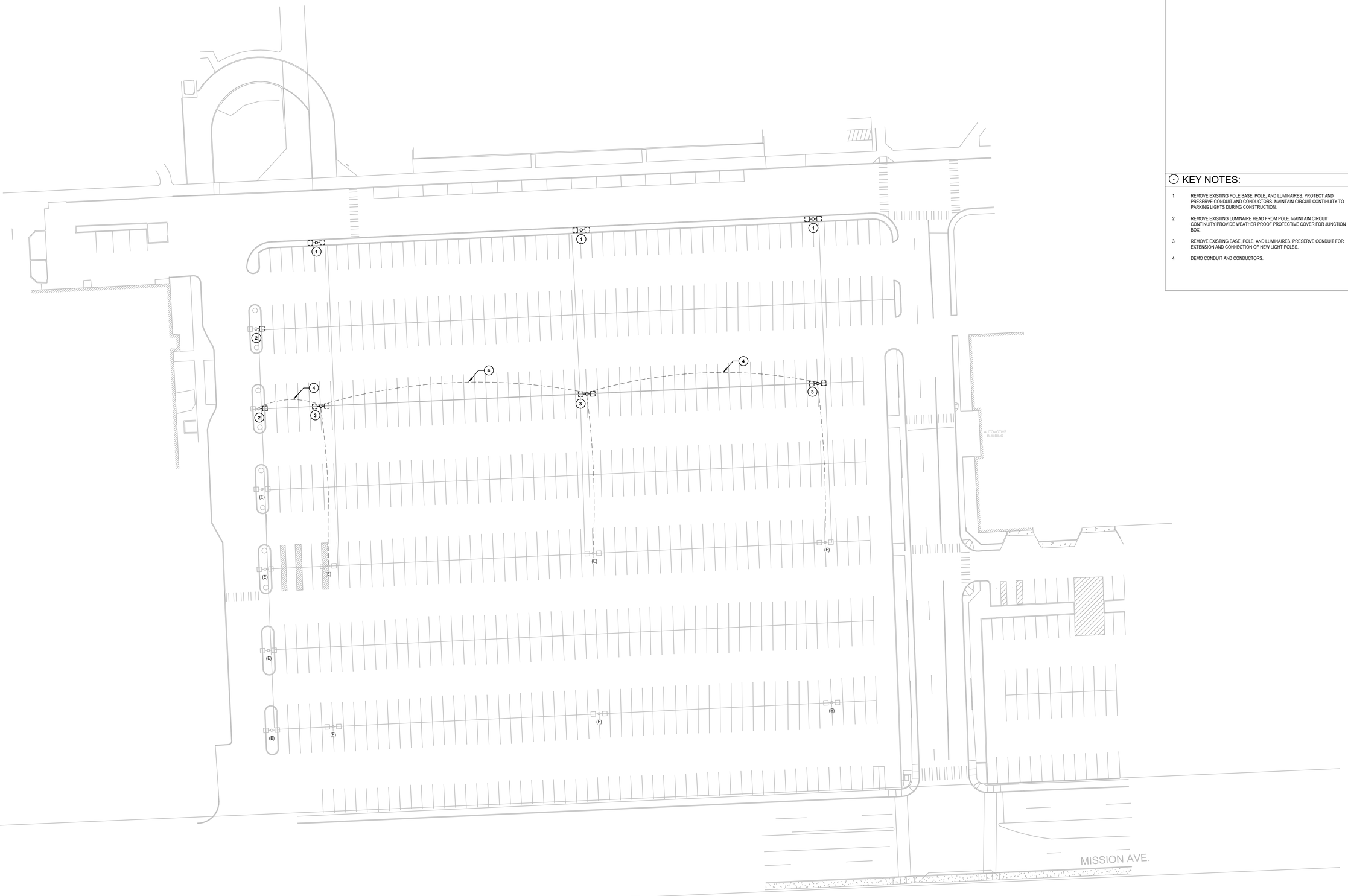
SHEET E-002

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.

KEY NOTES:

1. REMOVE EXISTING POLE BASE, POLE, AND LUMINAIRES. PROTECT AND PRESERVE CONDUIT AND CONDUCTORS. MAINTAIN CIRCUIT CONTINUITY TO PARKING LIGHTS DURING CONSTRUCTION.
2. REMOVE EXISTING LUMINAIRE HEAD FROM POLE. MAINTAIN CIRCUIT CONTINUITY PROVIDE WEATHER PROOF PROTECTIVE COVER FOR JUNCTION BOX.
3. REMOVE EXISTING BASE, POLE, AND LUMINAIRES. PRESERVE CONDUIT FOR EXTENSION AND CONNECTION OF NEW LIGHT POLES.
4. DEMO CONDUIT AND CONDUCTORS.



A1 SITE DEMO PLAN

SCALE : 1" = 30'-0"

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KURT JAMES NIEMI — STATE OF WASHINGTON — 35123 — REGISTERED PROFESSIONAL ENGINEER

STAMP

SHEET TITLE: ELECTRICAL SITE DEMO PLAN

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: BID SET

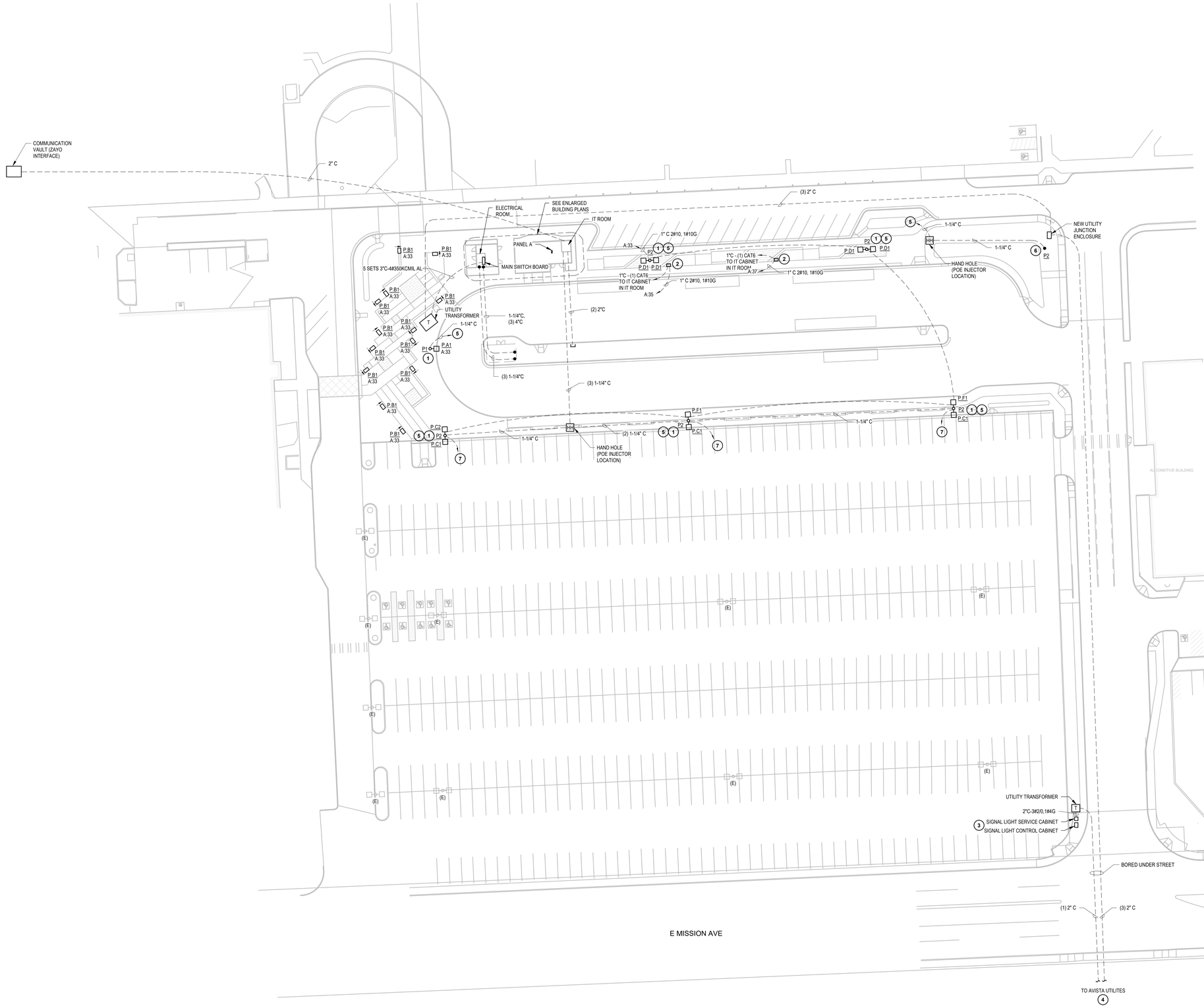
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	MJG
CHECKED	ZLY
DATE	02/10/2019

SHEET: E-100



GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.
2. COORDINATE ELECTRICAL SERVICES REQUIRMENTS WITH SERVICE PROVIDERS AS FOLLOWS:
   ELECTRICAL - AVISTA UTILITIES: NICK HARMON (509) 495-4889
   TELECOM - ZAYO: DEAN CHRISTENSEN (775) 530-3185
1. ALL CONDUIT SHALL BE RGS OR PRVC. MINIMUM BURIAL DEPTH SHALL BE AS REQUIRED IN NEC TABLE 300-5. TRANSITIONS ARE ACCEPTABLE BASED ON TRENCH DEPTH AND CONDITIONS.
2. TRENCHING AND INSTALLATION OF CONDUIT AND ELECTRICAL EQUIPMENTIS IN THE VICINITY OF UNDERGROUND UTILITIES. CALL AND HAVE LOCATED PRIOR TO WORK. EXACT LOCATIONS AND QUANTITY IS UNKNOWN. PROCEED WITH CAUTION. REPAIR ALL DISRUPTIONS.
3. INSTALL INTERMEDIATE PULL BOX FOF IN HOME RUNS AND WIRE PULLS LONGER THAN 400'.
4. COORDINATE WITH ALL UTILITY SERVICE REQUIREMENTS AND UTILITY POINTS OF CONTACT.
5. VERIFY EXISTING SURFACE CONDITIONS FOR FACTORS WHICH MAY AFFECT BID PRIOR TO BIDDING.
6. CONTRACTOR SHALL ENGAGE A COMMERICAL LOCATE SERVICE TO IDENTIFY EXISTING UNDERGROUND UTILITIES.
7. ALL CONDUIT SHALL BE CONCEALED UNLESS NOTED OTHERWISE.
8. THE EXISTING CAMPUS LIGHTING CONTROL SCHEDULE PROVIDES A SECURITY AND NORMAL LIGHTING CIRCUIT TO EACH POLE. COORDINATE WITH OWNER REGARDING WHICH NEW LIGHT POLE CONNECTS TO EITHER THE SECURITY CIRCUIT OR THE NORMAL CIRCUIT. SEE KEY NOTE 7 FOR FIXTURES TIED TO CAMPUS LIGHTING CONTROLS.
9. ALL SITE LIGHTING SHALL BE 1"C-2#10,1#10G.
10. ALL OUTDOOR DATA CABLE SHALL BE OSP RATED.

KEY NOTES:

1. PROVIDE A NEW POLE BASE PER DETAIL D5 ON SHEET E-502.
2. PROVIDE PAINTED (BLACK) STEEL POLE AND BOLT COVER PAINTED TO MATCH BENCHES, POLE SHALL BE UNITED LIGHTING STANDARDS #RPSQ-12-6-7-AB-RAL OR APPROVED. REFER TO STRUCTURAL DETAIL B2/S-501.
3. SEE OFFSITE WORK PACKAGE FOR ADDITIONAL SCOPE OF WORK REGARDING TRAFFIC SIGNAL.
4. ADDITIONAL TRENCHING AND CONDUIT PLACEMENT IS REQUIRED IN THE LOT TO THE SOUTH TO CONNECT TO AVISTA JUNCTION ENCLOSURE. SEE DETAIL A1/E-502. COORDINATE WITH AVISTA.
5. PROVIDE (2) CAT6A CABLES FROM IT ROOM FOR SECURITY CAMERA MOUNTED AT 12' A.F.F. ON LIGHT POLE. CAMERAS ARE TO BE OWNER PROVIDED.
6. PROVIDE A 12'-3" ROUND ALUMINUM PAINTED (BLACK) POLE. UNITED LIGHTING STANDARDS #RSA-5122 OR APPROVED. SEE POLE BASE DETAIL D5/E-502.
7. EXTEND PRESERVED CONDUIT TO NEW POLE LOCATION. PROVIDE NEW 2# 10,1#10G CONDUCTORS.

A1 SITE PLAN
SCALE : 1" = 30'-0"

NORTH

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STAMP

SHEET TITLE: ELECTRICAL SITE PLAN

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

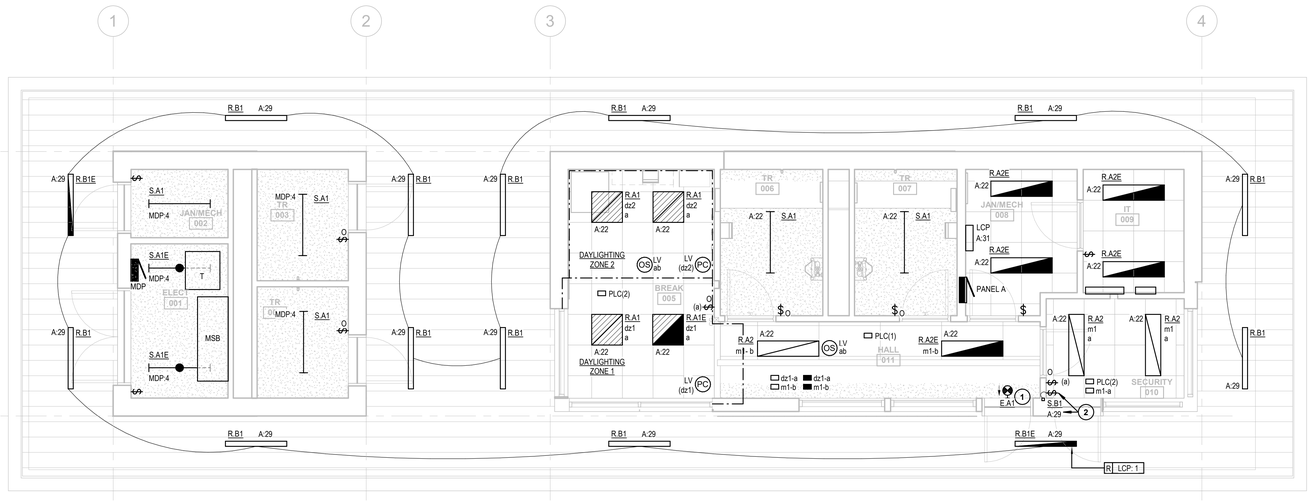
CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
DRAWN	MJG
CHECKED	ZLY
DATE	02/10/2019
SHEET	E-101



B2 FIRST FLOOR PLAN-LIGHTING

SCALE : 1/4" = 1'-0"

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CURRENT NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.
2. COORDINATE FINAL LOCATION OF ALL STRIP LUMINAIRES TO AVOID CONFLICTS WITH DUCT WORK, PIPING, AND MECHANICAL EQUIPMENT. MOUNT LUMINAIRES AT THE MOST PRACTICAL LOCATION WITH LEAST OBSTRUCTION TO THE LIGHT SOURCE AND ACCESSIBILITY FOR FUTURE LUMINAIRE MAINTENANCE.
3. LOCATION OF DISTRIBUTIVE LIGHTING CONTROL DEVICES SHOWN ON DRAWINGS FOR CLARITY. INSTALL DEVICES IN THE NEAREST ACCESSIBLE CEILING SPACE FOR FUTURE MAINTENANCE.
4. ALL SPACES CONTAINING A LOW VOLTAGE SWITCH WITH A DIMMING CAPABILITY SHALL AUTO TURN ON VIA OCCUPANCY SENSORS TO 50% LUMEN OUTPUT AND HAVE THE CAPABILITY OF OVERRIDING THE LUMINAIRES TO 100% LUMEN OUTPUT, UNLESS NOTED OTHERWISE.
5. ALL RESTROOM LUMINAIRES SHALL AUTO TURN ON VIA OCCUPANCY SENSORS TO 100% LUMEN OUTPUT.
6. INSTALL APPROPRIATE AMOUNT OF DISTRIBUTIVE LIGHTING CONTROL DEVICES TO CONTROL VARIOUS SWITCH LEGS IN EACH AREA. THE INSTALLATION OF LIGHTING CONTROL DEVICES, DAYLIGHT SENSORS, OCCUPANCY SENSORS, AND COMMISSIONING SHALL BE DONE TO MEET THE LATEST ENERGY CODE REQUIREMENTS.
7. REFER TO ARCHITECTURAL CEILING PLANS AND ELEVATIONS FOR ALIGNMENTS AND SPACING OF LUMINAIRES AND OTHER CEILING DEVICES.
8. PROVIDE ALL NECESSARY UL924 EMERGENCY POWER PACK DEVICES IF REQUIRED BY OTHER LIGHTING CONTROL SYSTEMS. ENSURE DEDICATED EMERGENCY LUMINAIRES ENERGIZE TO FULL BRIGHTNESS UPON POWER LOSS REGARDLESS OF PREVIOUS STATE.

KEY NOTES:

1. ENERGIZE EGRESS EXIT SIGN WITH UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING THE AREA. REFER TO ARCHITECTURAL LIFE SAFETY FOR DIRECTION OF TRAVEL.
2. RGBW TAPE LIGHT LUMINAIRE WITH DMX CONTROLLER. PROVIDE APPROPRIATE STEP DOWN TRANSFORMER MOUNTED IN ACCESSIBLE CEILING. REFER TO ARCHITECTURAL DETAILS B1, D1, AND D1 ON SHEET A-540 FOR MOUNTING. PROVIDE EASYL TOUCH SCREEN CONTROLLER (P/N: EZPRO MVOLT WH) FOR TIME CLOCK SCHEDULING AND CONFIGURING OF TYPE S.B1 TAPE LIGHT LUMINAIRE. PROVIDE FCS PS10 POWER SUPPLY FOR EASYL TOUCH SCREEN CONTROLLER.

LIGHTING CONTROLS SYMBOLS LEGEND

- ■ X — UL924 RATED DISTRIBUTIVE LIGHTING CONTROL POWER PACK DEVICE. SEE WIRING DETAIL A1 ON SHEET E-402. LUMINAIRE SHALL ENERGIZE TO FULL BRIGHTNESS UPON POWER LOSS REGARDLESS OF PREVIOUS STATE. X - SUBSCRIPT INDICATES SWITCH GROUP
- □ X — DISTRIBUTIVE LIGHTING CONTROL POWER PACK DEVICE. SEE WIRING DETAIL C1 ON SHEET E-402. X - SUBSCRIPT INDICATES SWITCH GROUP
- □ PLC — nLIGHT nPP20 PLUG LOAD CONTROL POWER PACK OR APPROVED EQUAL. REFER TO TYPICAL PLUG LOAD CONTROLLER WIRING DIAGRAM AND PLUG LOAD CONTROL DEVICE DETAIL ON SHEET E-501. PROVIDE ONE PER ELECTRICAL CIRCUIT. REFER TO POWER PLANS FOR QUANTITY OF CIRCUITS.

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LIGHTING PLAN

SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

SHEET TITLE

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

BID SET

REVISIONS

No.	Date	By

PROJ. NO.	2018-10258
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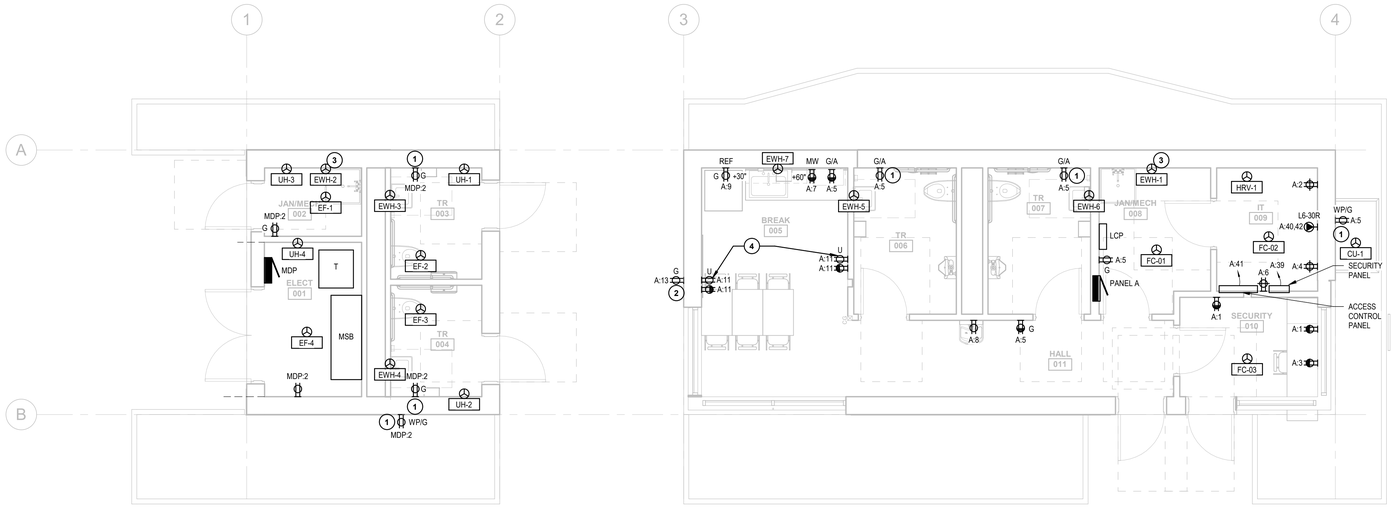
DATE	02/10/2019

EL-111

SHEET



GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CURRENT NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.

KEY NOTES:

1. PROVIDE STAINLESS STEEL LOCKING COVER PLATE.
2. POWER FOR LCD DISPLAY. COORDINATE LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL.
3. UNIT REQUIRES (4) POWER CONNECTIONS. SEE MECHANICAL EQUIPMENT SCHEDULE.
4. PROVIDE LEVITON #USB4P OUTLET.

B2 POWER PLAN

SCALE : 1/4" = 1'-0"

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SHEET TITLE: POWER PLAN

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

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1230 W. Boone Avenue, Spokane, Washington 99201

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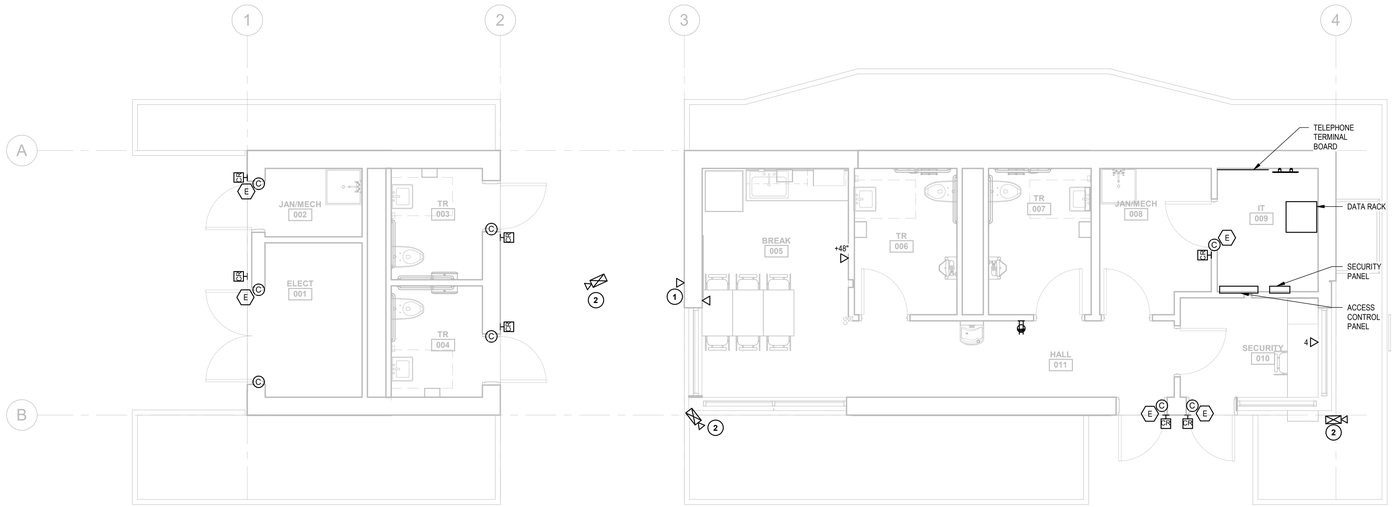
DATE	02/10/2019
SHEET	EP-111



B2 SYSTEMS PLAN

SCALE : 1/4" = 1'-0"

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CURRENT NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.
2. FOR DATA DEVICES PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE AND PROVIDE CABLING BACK TO IT ROOM 009.

KEY NOTES:

1. DATA FOR LCD DISPLAY. COORDINATE LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL.
2. PROVIDE 1"C AND BACKBOX FOR OWNER PROVIDED SECURITY CAMERA. INSTALL A CAT6A CABLE FROM DATA RACK IN RM 009. VERIFY HEIGHT WITH OWNER.

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SYSTEMS PLAN

SHEET TITLE

SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

PROJECT NAME & ADDRESS

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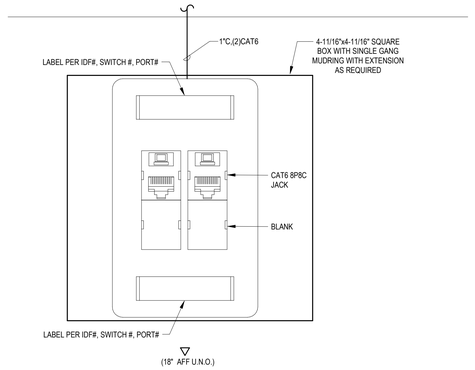
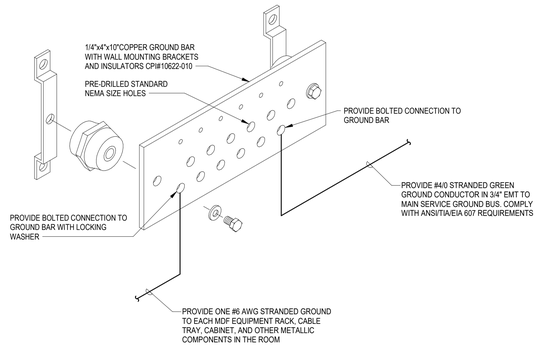
SHEET ET-111



D1 TELECOM PLATE DETAIL

SCALE : NTS



NOTE:

NOT ALL PARTS AND PART NUMBERS ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR A COMPLETE WORKING INSTALLATION INCLUDING, MISCELLANEOUS APPURTENANCES

D3 TELECOMMMUNICATION MAIN GROUND BUSBAR (TMGB)

SCALE : NTS

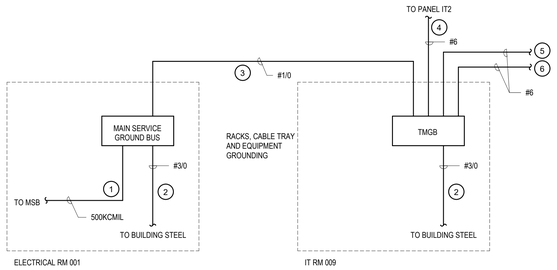
DEFINITIONS:

TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUS BAR SHALL BE A PRE-DRILLED COPPER BUS BAR WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING. MINIMUM SIZE OF 6MM THICK, 100MM WIDE, AND LENGTH AS NECESSARY.

TGB - TELECOMMUNICATIONS GROUNDING BUS BAR SHALL BE A PRE-DRILLED COPPER BUS BAR WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING. MINIMUM SIZE OF 6MM THICK, 50MM WIDE, AND LENGTH AS NECESSARY.

DETAIL NOTES:

1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS SHALL BE CONNECTED TO BUILDING SERVICE GROUND IN THE MAIN SWITCHBOARD.
2. BONDING CONDUCTOR BETWEEN TMGB/TGB AND BUILDING STEEL.
3. TELECOMMUNICATIONS BONDING BACKBONE CONNECTING THE TGB TO THE TMGB.
4. ALTERNATING CURRENT EQUIPMENT GROUND CONNECTING THE NEAREST ELECTRICAL PANEL TO THE TGB.
5. TELECOMMUNICATIONS EQUIPMENT GROUNDING CONDUCTOR. PROVIDE SEPARATE CONDUCTOR PER DEVICE.
6. SERVICE CABLE ENTRANCE PROTECTION.



B3 GROUNDING AND BONDING RISER DIAGRAM

SCALE : NTS

B5 CARD READER SINGLE DOOR

SCALE : NTS

NOTE:

1. PLUG LOAD CONTROLLER SHALL BE CONTROLLED BY THE ROOMS OCCUPANCY SENSOR. PLUG LOAD CONTROLLER AND INSTALLATION SHALL COMPLY WITH WSECC2015 C4015.10.

A1 PLUG LOAD CONTROL DEVICE

SCALE : NTS

nLIGHT #nPODM WSX PDT LV DX

$_{O}$

(LOW VOLTAGE - OCCUPANCY SENSOR / ON/OFF, RAISE, LOWER, OCCUPANCY MODEDIMMING SWITCH)

A5 WALL OCCUPANCY ON/OFF, RAISE/LOWER SWITCH

SCALE : NTS

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SHEET TITLE: ELECTRICAL DETAILS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

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PROJ. NO.	2018-10258
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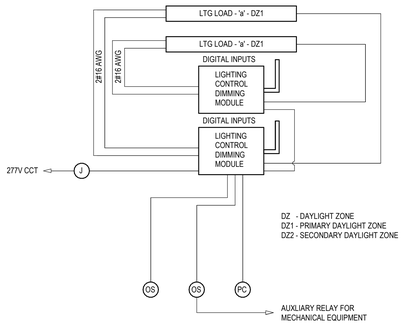
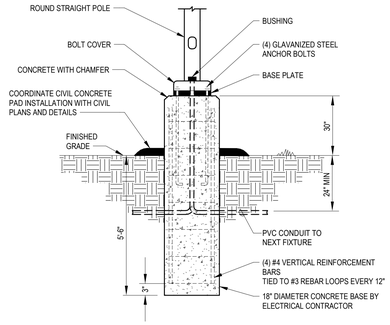
SHEET: E-501



D3 DIMMING CONTROLS

SCALE : NTS



NOTES:

1. SITE ELECTRICAL CONTR. TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES & DRAINAGE BEFORE DRILLING POLE BASE.
2. POLE BASE IS TO BE ONE CONTINUOUS POUR. PORTION OF EXPOSED CONC. BASE ABOVE PAVEMENT SHALL BE HAND RUBBED SMOOTH. PRE-CAST CONCRETE POLE BASES ARE ACCEPTABLE.
3. SHAFT CAP, ARMS, BASE FLANGE, ANCHOR BOLTS, LEVELING NUTS, CONNECTION, HARDWARE, BOLT COVERS, HANDHOLE COVER, AND BOLT CIRCLE TEMPLATE SHALL BE FURNISHED BY POLE MANUFACTURER.
4. GROUND LIGHT POLE PER NATIONAL ELECTRICAL CODE.
5. CONTRACTOR TO TAKE SPECIAL CARE TO ENSURE CONCRETE POLE BASES ARE POURED/SET VERTICAL & LEVEL.

D5 POLE BASE 1 (B1) DETAIL

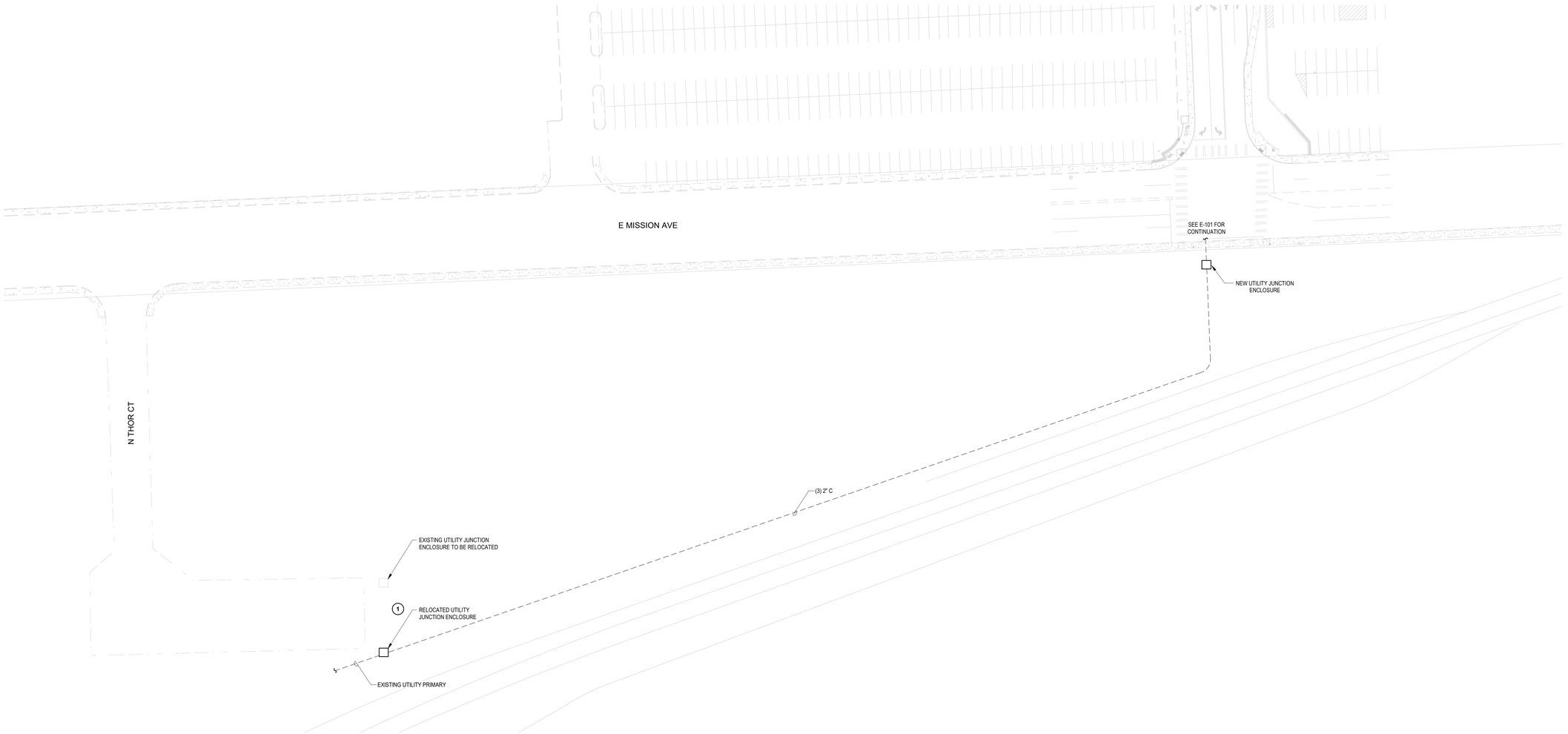
SCALE : NTS

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.
2. COORDINATE ELECTRICAL SERVICES REQUIRMENTS WITH SERVICE PROVIDERS AS FOLLOWS:
   ELECTRICAL - AVISTA UTILITIES: NICK HARMON (509) 495-4889
   TELECOM - ZAYO: DEAN CHRISTENSEN (775) 530-3185
1. ALL CONDUIT SHALL BE RGS OR PRVC. MINIMUM BURIAL DEPTH SHALL BE AS REQUIRED IN NEC TABLE 300-5. TRANSITIONS ARE ACCEPTABLE BASED ON TRENCH DEPTH AND CONDITIONS.
2. TRENCHING AND INSTALLATION OF CONDUIT AND ELECTRICAL EQUIPMENTIS IN THE VICINITY OF UNDERGROUND UTILITIES. CALL AND HAVE LOCATED PRIOR TO WORK. EXACT LOCATIONS AND QUANTITY IS UNKNOWN. PROCEED WITH CAUTION. REPAIR ALL DISRUPTIONS.
3. INSTALL INTERMEDIATE PULL BOX FOF IN HOME RUNS AND WIRE PULLS LONGER THAN 400'.
4. COORDINATE WITH ALL UTILITY SERVICE REQUIREMENTS AND UTILITY POINTS OF CONTACT.
5. VERIFY EXISTING SURFACE CONDITIONS FOR FACTORS WHICH MAY AFFECT BID PRIOR TO BIDDING.
6. CONTRACTOR SHALL ENGAGE A COMMERICAL LOCATE SERVICE TO IDENTIFY EXISTING UNDERGROUND UTILITIES.
7. ALL CONDUIT SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

KEY NOTES:

1. COORDINATE JUNCTION ENCLOSURE RELOCATION WITH AVISTA.



A1 OFFSITE ELECTRICAL PLAN

SCALE : 1" = 40'-0"

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SHEET TITLE: ELECTRICAL DETAILS

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

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REVISIONS

No.	Date	By

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SHEET E-502

ALUMINUM FEEDER SCHEDULE

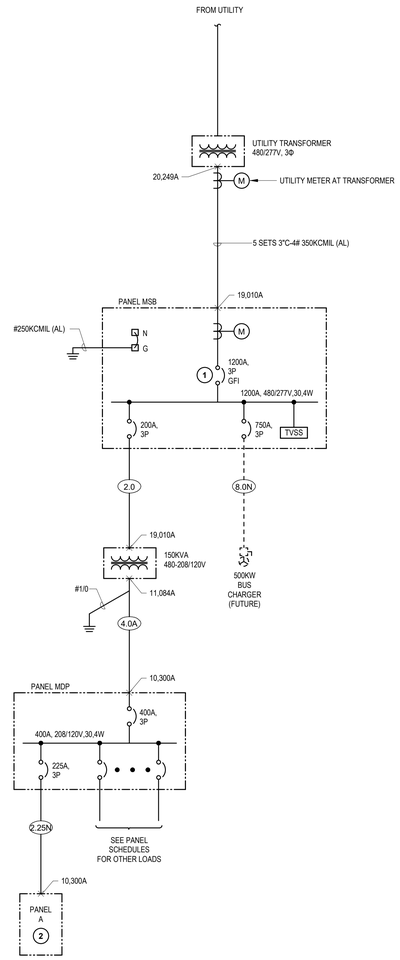
AMPACITY (AMPS)	SYMBOL ID.	WIRE (3-PHASE) WITH NEUTRAL	CONDUIT	SYMBOL ID.	WIRE (3-PHASE) WITHOUT NEUTRAL	CONDUIT
100	1.0A	4#1/0, 1#4G	2"	1.0	3#1/0, 1#6G	1 1/2"
100	1.0N	4#1/0, 1#6G	2"	1.25	3#2/0, 1#4G	2"
125	1.25N	4#2/0, 1#4G	2"	1.5	3#3/0, 1#4G	2"
150	1.5N	4#3/0, 1#4G	2 1/2"	1.75	3#4/0, 1#4G	2 1/2"
175	1.75N	4#4/0, 1#4G	2 1/2"	2.0	3#250KCMIL, 1#4G	3"
200	2.0N	4#250KCMIL, 1#4G	3"	2.25	3#300KCMIL, 1#2G	3"
225	2.25N	4#300KCMIL, 1#2G	3"	2.5	3#350KCMIL, 1#2G	3"
250	2.5N	4#350KCMIL, 1#2G	3"	3.0	3#500KCMIL, 1#2G	4"
300	3.0N	4#500KCMIL, 1#2G	4"	3.5	2 SETS 3#4/0, 1#1G	2 - 2 1/2"
350	3.5N	2 SETS 4#4/0, 1#1G	2 - 2 1/2"	4.0	2 SETS 3#250KCMIL, 1#1G	2 - 3"
400	4.0N	2 SETS 4#250KCMIL, 1#1G	2 - 3"	4.5	2 SETS 3#300KCMIL, 1#1/0G	2 - 3"
450	4.5N	2 SETS 4#300KCMIL, 1#1/0G	2 - 3"	5.0	2 SETS 3#350KCMIL, 1#1/0G	2 - 3"
500	5.0N	2 SETS 4#350KCMIL, 1#1/0G	2 - 3"	6.0	2 SETS 3#500KCMIL, 1#2/0G	2 - 4"
600	6.0N	2 SETS 4#500KCMIL, 1#2/0G	2 - 4"	7.0	3 SETS 3#350KCMIL, 1#3/0G	3 - 3"
600	6.0A	2 SETS 4#500KCMIL, 1#4/0G	2 - 4"	8.0	3 SETS 3#400KCMIL, 1#3/0G	3 - 4"
700	7.0N	3 SETS 4#350KCMIL, 1#3/0G	3 - 3"	10	4 SETS 3#350KCMIL, 1#4/0G	4 - 3"
800	8.0N	3 SETS 4#400KCMIL, 1#3/0G	3 - 4"	12	5 SETS 3#350KCMIL, 1#250KCMILG	5 - 3"
1000	10N	4 SETS 4#350KCMIL, 1#4/0	4 - 3"	16	6 SETS 3#400KCMIL, 1#350KCMILG	6 - 4"
1200	12N	5 SETS 4#350KCMIL, 1#250KCMILG	5 - 3"	20	7 SETS 3#500KCMIL, 1#400KCMILG	7 - 4"
1600	16N	6 SETS 4#400KCMIL, 1#350KCMILG	6 - 4"			
2000	20N	7 SETS 4#500KCMIL, 1#400KCMILG	7 - 4"			

COPPER FEEDER SCHEDULE

AMPACITY (AMPS)	SYMBOL ID.	WIRE(3-PHASE) WITH NEUTRAL	CONDUIT	SYMBOL ID.	WIRE (3-PHASE) WITHOUT NEUTRAL	CONDUIT
20	.2N	4#12, 1#12G	3/4"	.2	3#12, 1#12G	3/4"
30	.3N	4#10, 1#10G	3/4"	.3	3#10, 1#10G	3/4"
40	.4N	4#8, 1#10G	1"	.4	3#8, 1#10G	1"
50	.5N	4#6, 1#10G	1"	.5	3#6, 1#10G	1"
60	.6N	4#4, 1#10G	1 - 1/2"	.6	3#4, 1#10G	1"
70	.7N	4#4, 1#8G	1 - 1/2"	.7	3#4, 1#8G	1"
80	.8N	4#3, 1#8G	1 - 1/2"	.8	3#3, 1#8G	1 - 1/2"
90	.9N	4#2, #8G	1 - 1/2"	.9	3#2, 1#8G	1 - 1/2"
100	1.0N	4#1, 1#8G	1 - 1/2"	1.0	3#1, 1#8G	1 - 1/2"
125	1.25N	4#1, 1#6G	1 - 1/2"	1.25	3#1, 1#6G	1 - 1/2"
150	1.5N	4#1/0, 1#6G	2"	1.5	3#1/0, 1#6G	1 - 1/2"
175	1.75N	4#2/0, 1#6G	2"	1.75	3#2/0, 1#6G	1 - 1/2"
200	2.0N	4#3/0, 1#6G	2"	2.0	3#3/0, 1#6G	2"
225	2.25N	4#4/0, 1#4G	2 - 1/2"	2.25	3#4/0, 1#4G	2"
250	2.5N	4#250KCM, 1#4G	2 - 1/2"	2.5	3#250KCM, 1#4G	2 - 1/2"
300	3.0N	4#350KCM, 1#4G	3"	3.0	3#350KCM, 1#4G	2 - 1/2"
350	3.5N	4#500KCM, 1#3G	4"	3.5	3#500KCM, 1#3G	3"
400	4.0N	2 SETS 4#3/0, 1#3G	2 -2"	4.0	2 SETS 3#3/0, 1#3G	2 - 2"
450	4.5N	2 SETS 4#4/0, 1#2G	2 - 2 1/2"	4.5	2 SETS 3#4/0, 1#2G	2 - 2"
500	5.0N	2 SETS 4#250KCM, 1#2G	2 - 3"	5.0	2 SETS 3#250KCM, 1#2G	2 - 2 1/2"
600	6.0N	2 SETS 4#350KCM, 1#1G	2 - 3"	6.0	2 SETS 3#350KCM, 1#1G	2 - 2 1/2"
700	7.0N	2 SETS 4#500KCM, 1#1/0G	2 - 4"	7.0	2 SETS 3#500KCM, 1#1/0G	2 - 3"
800	8.0N	3 SETS 4#300KCM, 1#1/0G	3 - 3"	8.0	3 SETS 3#300KCM, 1#1/0G	3 - 3"
1000	10N	3 SETS 4#400KCM, 1#2/0G	3 - 3"	10	3 SETS 3#400KCM, 1#2/0G	3 - 3"
1200	12N	4 SETS 4#350KCM, 1#3/0G	4 - 3"	12	4 SETS 3#350KCM, 1#3/0G	4 - 2 1/2"
1600	16N	4 SETS 4#600KCM, 1#4/0G	4 - 4"	16	4 SETS 3#600KCM, 1#4/0G	4 - 4"
2000	20N	5 SETS 4#600KCM, 1#250KCM G	5 - 4	20	5 SETS 3#600KCM, 1#250KCM G	5 - 4"
2500	25N	6 SETS 4#600KCM, 1#350KCM G	6 - 4"	25	6 SETS 4#600KCM, 1#350KCM G	6 - 4"

SPECIAL

AMPACITY (AMPS)	SYMBOL ID.	WIRE(3-Phase) WITH NEUTRAL	CONDUIT	NOTES
80	.8B	4#3, 1#6G	1 - 1/2"	EGC SIZED PER UPSTREAM OCPD PER 250.122(G)
100	1.0A	4#1, 1#6G	1 - 1/2"	SUPPLY SIDE BONDING JUMPER PER 250.102(C)(1)
400	4.0A	4#600KCMIL, 1#1/0G	4"	SUPPLY SIDE BONDING JUMPER PER 250.102(C)(1)
600	6.0A	2 SETS 4#350KCM, 1#2/0G	2 - 3"	SUPPLY SIDE BONDING JUMPER PER 250.102(C)(1)



GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CURRENT NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.

KEY NOTES:

1. PROVIDE MAINTENANCE BYPASS OR FAST-TRIP MODE TO MEET NEC 240.87.
2. PROVIDE 54 CIRCUIT PANELBOARD

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STAMP

ONE-LINE DIAGRAM

SHEET TITLE

SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

PROJECT NAME & ADDRESS

CLIENT INFORMATION

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN MJG
CHECKED ZLY
DATE 02/10/2019

SHEET E-600

LUMINAIRE SCHEDULE

Date: 2/4/2019

TYPE	MANUFACTURER	CATALOG NUMBER	MAX WATTS	SOURCE/ MIN LUMENS	MIN LPW	TEMPERATURE/ CRI	DRIVER	VOLT	MOUNTING	FINISH	LOCATION	DESCRIPTION
E.A1	LITHONIA	EXG LED M6	1	GREEN LED	-	-	-	UNV 120-277	WALL	WHITE	VARIES	WALL MOUNTED EGRESS LED EXIT SIGN GREEN LETTERING LED EXIT SIGN WITH NO BATTERY. WIRED TO EMERGENCY CIRCUIT. ENERGIZE WITH UNSWITCHED PHASE CONDUCTOR. * PROVIDE SINGLE FACE, DOUBLE FACE AND ARROWS AS NEEDED. REER TO ARCHITECTURAL LIFE SAFETY PLAN FOR DIRECTION OF TRAVEL.
P.A1	LITHONIA	KAD LED 30C 1000 40K R3 MVOLT RPD04 PIRH DDLXD	73	LED 7314 LUMENS	108	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	POLE SURFACE	BLACK	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 3 DISTRIBUTION WITH OCCUPANCY SENSOR 1000 mA LED DRIVER CURRENT. L70 = 100,000 HOUR MIN. SQUARE POLE MOUNTING. TYPE 3 DISTRIBUTION. BLACK FINISH COLOR UNLESS OTHERWISE DIRECTED.
P.B1	LUMCA	LU-MB-AL-40-24 6 LED07 15W 40K L5 208 AG FP-AG	15	LED 800 LUMENS	53	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	POLE\ SURFACE	BLACK	SITE	EXTERIOR LED ILLUMINATED BOLLARD ALUMINUM DECORATIVE PANEL WITH ASYMMETRIC DISTRIBUTION PROVIDE ANCHOR BASE PLATE DRILL PATTERN BLACK FINISH COLOR UNLESS OTHERWISE DIRECTED.
P.C1	LITHONIA	KAD LED 30C 1000 40K R4 MVOLT PER7 PIRH RPD04 DDLXD	73	LED 7322 LUMENS	108	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	POLE SURFACE	BLACK	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 4 DISTRIBUTION WITH OCCUPANCY SENSOR 1000 mA LED DRIVER CURRENT. L70 = 100,000 HOUR MIN. SQUARE POLE MOUNTING. TYPE 4 DISTRIBUTION. BLACK FINISH COLOR UNLESS OTHERWISE DIRECTED.
P.C2	LITHONIA	KAD LED 30C 1000 40K R4 MVOLT PIRH RPD04 DDLXD	73	LED 7322 LUMENS	108	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	POLE SURFACE	BLACK	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 4 DISTRIBUTION WITH OCCUPANCY SENSOR 1000 mA LED DRIVER CURRENT. L70 = 100,000 HOUR MIN. SQUARE POLE MOUNTING. TYPE 4 DISTRIBUTION. BLACK FINISH COLOR UNLESS OTHERWISE DIRECTED.
P.D1	LITHONIA	KAD LED 30C 1000 40K R3 MVOLT RPD04 PIRH DDLXD	73	LED 7314 LUMENS	108	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	POLE SURFACE	BLACK	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 3 DISTRIBUTION WITH OCCUPANCY SENSOR 1000 mA LED DRIVER CURRENT. L70 = 100,000 HOUR MIN. SQUARE POLE MOUNTING. TYPE 3 DISTRIBUTION. BLACK FINISH COLOR UNLESS OTHERWISE DIRECTED.
P.F1	LITHONIA	KAD LED 30C 1000 40K R2 MVOLT RPD04 PIRH DDLXD	73	LED 7344 LUMENS	109	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	POLE SURFACE	BLACK	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 2 DISTRIBUTION WITH OCCUPANCY SENSOR 1000 mA LED DRIVER CURRENT. L70 = 100,000 HOUR MIN. SQUARE POLE MOUNTING. TYPE 2 DISTRIBUTION. BLACK FINISH COLOR UNLESS OTHERWISE DIRECTED.
P1	LITHONIA	RSS 20 4B DM19 DDBXD	-	LED	-	-	-	-	POLE-BASE	BLACK	SITE	20' 4" DIA ROUND STRAIGHT STEEL POLE PROVIDE 1 @ 90 UNIT DRILL PATTERN. DARK BRONZE FINISH COLOR UNLESS OTHERWISE DIRECTED.
P2	LITHONIA	RSS 20 4B DM28 DDBXD	-	LED	-	-	-	-	POLE-BASE	BLACK	SITE	20' 4" DIA ROUND STRAIGHT STEEL POLE PROVIDE 2 @ 180 UNIT DRILL PATTERN. DARK BRONZE FINISH COLOR UNLESS OTHERWISE DIRECTED.
R.A1	LITHONIA	EPANL 22 34L 40K	30.8	LED 3479 LUMENS	113	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING RECESSED	WHITE	BREAKROOM HALL	2'X2' LED RECESSED EDGE LIT FLAT PANEL
R.A1E	LITHONIA	EPANL 2X2 3400L 80CRI 40K MIN10 MVOLT E10WCP	30.8	LED 3479 LUMENS	113	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	277V	CEILING RECESSED	WHITE	BREAKROOM HALL	2'X2' LED RECESSED EDGE LIT FLAT PANEL WITH EMERGENCY PACK
R.A2	LITHONIA	EPANL 1X4 4000LM 80CRI 40K MIN10 MVOLT	38.9	LED 4397 LUMENS	128	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING RECESSED	WHITE	VARIES	1'X4' LED RECESSED EDGE LIT FLAT PANEL
R.A2E	LITHONIA	EPANL 1X4 4000LM 80CRI 40K MIN10 MVOLT E10WCP	38.9	LED 4397 LUMENS	128	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	277V	CEILING RECESSED	WHITE	VARIES	1'X4' LED RECESSED EDGE LIT FLAT PANEL WITH EMERGENCY PACK
R.B1	AXIS	WBRLED 500 80 40 S 4 * UNV D 1 DF	11	LED 2000 LUMENS	91	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING RECESSED	WHITE	EXTERIOR	4" LED RECESSED LINEAR MAXIMUM OF 3 1/2" TALL FOR EXTERIOR SOFFIT LOCATION WET LOCATION FIXTURE
R.B1E	AXIS	WBRLED 500 80 40 S 4 * UNV D E DF	11	LED 2000 LUMENS	91	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	277V	CEILING RECESSED	WHITE	EXTERIOR	4" LED RECESSED LINEAR WITH EMERGENCY PACK 3 1/2" CLEARANCE FOR EXTERIOR SOFFIT LOCATION WET LOCATION FIXTURE
S.A1	LITHONIA	ZL1D L48 SMR 3000LM FST MVOLT 40K 80CRI	30	LED 3880 LUMENS	129	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	SURFACE	WHITE	RESTROOM	4' LED INSTUSTRIAL STRIP DROP LENS WITH UPLIGHT
S.A1E	LITHONIA	ZL1D L48 SMR 3000LM FST 277 40K 80CRI	30	LED 3880 LUMENS	129	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	277V	SURFACE	WHITE	VARIES	4'LED INDUSTRIAL STRIP WITH EMERGENCY PACK DROP LENS WITH UPLIGHT
S.B1	KELVIX	RGBW-2-24V/CH-502-A/ULV96/DMX CONTROLLER	3.8W/FT	LED 340 LUMENS/FT.	89	3000K 90 CRI MIN	LED DRIVER 0-10V DIMMING	24V DC	SURFACE	ALUMINUM	BETWEEN 010A & 011A DOORS	10' LED RGBW TAPE LIGHT EXTRUDED ALUMINUM CHANNEL DMX CONTROLLER FOR TIME CLOCK SCHEDULING AND CONFIGURING OF TAPE LIGHT

MECHANICAL EQUIPMENT SCHEDULE

Project No:180892

Notes:
A. FURNISHED AND INSTALLED BY DIVISION 23
B. FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
C. FURNISHED AND INSTALLED BY DIVISION 26
D. FURNISHED BY OTHERS, INSTALLED BY DIVISION 26
E. FURNISHED AND INSTALLED BY OTHERS

F. NEMA 5-15R RECEPTACLE
G. NEMA 5-20R RECEPTACLE
H. NEMA 6-20R RECEPTACLE
I. NEMA 5-50R RECEPTACLE
J. DIRECT CONNECTION

Key:
FLA - FULL LOAD AMPS
MCA - MINIMUM CIRCUIT AMPS
VFD - VARIABLE FREQUENCY DRIVE
HP- HORSE POWER
MCA - MINIMUM CIRCUIT AMPS
MOCP-MAX OVERCURRENT PROTECTION

											BREAKER		UNIT DISCONNECT				WIRES				STARTER					CONNECTION				
UNIT ID	DESCRIPTION	LOCATION	VOLTS	PHASE	HP	LOAD (KVA)	FLA	MCA	MOCP		POLE	AMPS	POLE	AMPS	FUSE	NOTES	PHASE NO.	PHASE SZ	GND SZ	CONDUIT SIZE	COMBO	MANUAL	SOFT	VFD	NOTES	CORD AND PLUG	DIRECT CONNECT	NOTES	CIRCUIT NUMBER	REMARKS
HRV-1	HEAT RECOVERY VENTILATOR	ABOVE RM 008	120	1	1/5		3.30				1	20	1	20		C	2	12	12	1/2"							X		A:23	
CU-1	CONDENSING UNIT	EAST OF BUILDING	208	1				42.00	50		2	50	2	60	50	C	3	4	10	1-1/2"							X		A:35,37	
FCU-01	FAN COIL	ABOVE RM 008	208	1				3.3	15		2	15	2	30		C	3	12	12	3/4"							X		A:10,12	
FCU-02	FAN COIL	ABOVE RM 009	208	1				1	15		2	15	2	30		C	3	12	12	3/4"							X		A:14,16	
FCU-03	FAN COIL	ABOVE RM 010	208	1				1	15		2	15	2	30		C	3	12	12	3/4"							X		A:18,20	
EWH-1	ELE. WH	JANITOR RM 008	208	1		6.65		40	40		2	40	2	60		C	3	8	10	1"							X		A:24,26	(4) CONNECTIONS PER UNIT
						6.65		40	40		2	40	2	60		C	3	8	10	1"							X		A:28,30	
						6.65		40	40		2	40	2	60		C	3	8	10	1"							X		A:32,34	
						6.65		40	40		2	40	2	60		C	3	8	10	1"							X		A:36,38	
EWH-2	ELE. WH	JANITOR RM 002	208	1		6.65		40	40		2	40	2	60		C	3	8	10	1"							X		MDP:6,8	(4) CONNECTIONS PER UNIT
						6.65		40	40		2	40	2	60		C	3	8	10	1"							X		MDP:10,12	
						6.65		40	40		2	40	2	60		C	3	8	10	1"							X		MDP:14,16	
						6.65		40	40		2	40	2	60		C	3	8	10	1"							X		MDP:18,20	
EWH-3	ELE. WH	TR 003	120	1		3.5		29	30		1	30	1	30		C	2	10	10	1/2"							X		MDP:19	
EWH-4	ELE. WH	TR 004	120	1		3.5		29	30		1	30	1	30		C	2	10	10	1/2"							X		MDP:21	
EWH-5	ELE. WH	TR 006	120	1		3.5		29	30		1	30	1	30		C	2	10	10	1/2"							X		A:19	
EWH-6	ELE. WH	TR 007	120	1		3.5		29	30		1	30	1	30		C	2	10	10	1/2"							X		A:21	
EWH-7	ELE. WH	BREAK ROOM 005	208	1		10.1		49	60		2	60	2	60		C	3	4	10	1-1/2"							X		A:15,17	
EF-1	EX.FAN	JAN. ROOM 002	120	1			.6		15		1	15	1	20		C	2	12	12	1/2"							X		MDP:23	
EF-2	EX.FAN	TOILET ROOM 003	120	1			.6		15		1	15	1	20		C	2	12	12	1/2"							X		MDP:25	
EF-3	EX.FAN	TOILET ROOM 004	120	1			.6		15		1	15	1	20		C	2	12	12	1/2"							X		MDP:27	
EF-4	EX.FAN	ELECTRICAL ROOM 001	120	1	1/6	0.50	4.4		15		1	15	1	20		C	2	12	12	1/2"							X		MDP:29	
UH-1	WALL HEATER	TOILET ROOM 003	208	1		1.50	7.20				2	20	2	30		C	3	12	12	3/4"							X		MDP:7,9	
UH-2	WALL HEATER	TOILET ROOM 004	208	1		1.50	7.20				2	20	2	30		C	3	12	12	3/4"							X		MDP:11,13	
UH-3	WALL HEATER	JAN/MECH ROOM 002	208	1		1.50	7.20				2	20	2	30		C	3	12	12	3/4"							X		MDP:15,17	
UH-4	WALL HEATER	ELECTRICAL ROOM 001	208	1		1.50	7.20				2	20	2	30		C	3	12	12	3/4"							X		MDP:31,33	
PS-1	WATER COOLER	HALL 011	120	1		0.37	6.00		15		1	20	1	30		C	2	12	12	1/2"						X		F	A:8	GFI BREAKER

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STAMP

SHEET TITLE: LIGHTING AND MECHANICAL SCHEDULE

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

BID SET

REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN MJG
CHECKED ZLY
DATE 02/10/2019

SHEET E-701

PROJECT: STA UPRIVER TRANSIT CENTER SCC **PANEL: MSB**

Location: Feed-Thru to: Date: 2/4/2019

Ckt	Description	Phase	Amp	Poles	Notes	Ckt Totals	Specifications		
1	PANEL MDP	A	200	3		38.6	Voltage (L-L):		480
3	-	B	-	-		32.5	Phase:		3
5	-	C	-	-		35.9	Wire:		4
7	BUS CHARGER	A	750	3		166.7	Bus Current Rating (Amps):		1200
9	-	B	-	-		166.7	Bus Material:		Cu/Al
11	-	C	-	-		166.7	Short Circuit Current Rating (Amps)		22kA
13		A					Main Type:		BRKR
15		B					Main Rating:		1200
17		C					Neutral Type:		FULL
19		A					Mounting/Encl.:	SURFACE	NEMA1
21		B					**2017 NEC Sections Used in Demand Calculations**		
23		C					Factor #	NEC Reference	Notes
25		A					1	TBL 220.44 Receptacles ND	1st 10k @100%, Remainder @50%
27		B							
29		C					2	TBL 220.42 Apartments General Lighting	1st 20k@50%, 20-100k @40%, >100k @30%
31		A							
33		B							
35		C					3	430.24 Motors	Largest @125% Remainder @100%
37		A							
39		B					4	210.19(A)1 Cont Loads	125%
41		C					5	Non-Cont Loads	100%
							6	220.51 Heating	100%
2		A					**Feeder Load Breakdown**	**Conn(KVA)**	**Dmd Fact**
4		B					Non-Dwelling Receptacles	5.96	1.00
6		C					Dwelling General Illumination	0.00	0.00
8		A					Non-Continuous Lighting	0.00	1.00
10		B					Continuous Lighting	0.65	1.25
12		C					Exterior Lighting	0.78	1.25
14		A					Kitchen Appliances	0.00	1.00
16		B					Motors	0.74	1.00
18		C					Largest Motor (per phase)	0.53	0.25
20		A					Fixed Heating	7.67	1.00
22		B					Fixed Cooling	10.08	1.00
24		C					Non-Diversity Loads	0.00	1.00
26		A					Other	581.06	1.00
28		B							
30		C					**Connected Feeder Load Summary**		
32		A						**CONN KVA**	**CONN AMPS**	**NEC KVA**	**NEC AMPS**
34		B									
36		C					**PHASE A:**	**205.25**	**740.63**	**202.89**	**732.12**
38		A					**PHASE B:**	**199.17**	**718.71**	**199.63**	**720.34**
40		B					**PHASE C:**	**202.52**	**730.79**	**200.28**	**722.70**
42		C					**TOTAL:**	**606.95**	**730.04**	**602.80**	**725.05**

Notes:

Panel Loading: ACCEPTABLE

PROJECT: STA UPRIVER TRANSIT CENTER SCC **PANEL: MDP**

Location: Feed-Thru to: Date: 2/4/2019

Ckt	Description	Phase	Amp	Poles	Notes	Ckt Totals	Specifications		
1	PANEL A	A	225	3		22.1	Voltage (L-L):		208
3	-	B	-	-		20.0	Phase:		3
5	-	C	-	-		23.7	Wire:		4
7	UH-1	A	20	2		0.8	Bus Current Rating (Amps):		400
9	-	B	-	-		0.8	Bus Material:		Cu/Al
11	UH-2	C	20	2		0.8	Short Circuit Current Rating (Amps)		22kA
13	-	A	-	-		0.8	Main Type:		BRKR
15	UH-3	B	20	2		0.8	Main Rating:		400
17	-	C	-	-		0.8	Neutral Type:		FULL
19	EWH-3	A	30	1		3.5	Mounting/Encl.:	SURFACE	NEMA1
21	EWH-4	B	30	1		3.5	**2017 NEC Sections Used in Demand Calculations**		
23	EF-1	C	20	1		0.1	Factor #	NEC Reference	Notes
25	EF-2	A	20	1		0.1	1	TBL 220.44 Receptacles ND	1st 10k @100%, Remainder @50%
27	EF-3	B	20	1		0.1			
29	EF-4	C	20	1		0.5	2	TBL 220.42 Apartments General Lighting	1st 20k@50%, 20-100k @40%, >100k @30%
31	UH-4	A	20	2		0.8			
33	-	B	-	-		0.8			
35		C					3	430.24 Motors	Largest @125% Remainder @100%
37		A							
39		B					4	210.19(A)1 Cont Loads	125%
41		C					5	Non-Cont Loads	100%
							6	220.51 Heating	100%
2	REC WEST BLDG	A	20	1		0.5	**Feeder Load Breakdown**	**Conn(KVA)**	**Dmd Fact**
4	INTERIOR LIGHTING	B	20	1			Non-Dwelling Receptacles	5.96	1.00
6	EWH-2	C	40	2	1	3.4	Dwelling General Illumination	0.00	0.00
8	-	A	-	-		3.4	Non-Continuous Lighting	0.00	1.00
10	EWH-2	B	40	2	1	3.4	Continuous Lighting	0.65	1.25
12	-	C	-	-		3.4	Exterior Lighting	0.78	1.25
14	EWH-2	A	40	2	1	3.4	Kitchen Appliances	0.00	1.00
16	-	B	-	-		3.4	Motors	0.74	1.00
18	EWH-2	C	40	2	1	3.4	Largest Motor (per phase)	0.53	0.25
20	-	A	-	-		3.4	Fixed Heating	7.67	1.00
22		B					Fixed Cooling	10.08	1.00
24		C					Non-Diversity Loads	0.00	1.00
26		A					Other	81.06	1.00
28		B							
30		C					**Connected Feeder Load Summary**		
32		A						**CONN KVA**	**CONN AMPS**	**NEC KVA**	**NEC AMPS**
34		B									
36		C					**PHASE A:**	**38.58**	**321.28**	**36.22**	**301.64**
38		A					**PHASE B:**	**32.51**	**270.70**	**32.96**	**274.46**
40		B					**PHASE C:**	**35.86**	**298.58**	**33.61**	**279.91**
42		C					**TOTAL:**	**106.95**	**296.85**	**102.80**	**285.34**

Notes: 1. UNIT REQUIRES (4) SEPARATE POWER CONNECTIONS.

Panel Loading: ACCEPTABLE

PROJECT: STA UPRIVER TRANSIT CENTER SCC **PANEL: A**

Location: Feed-Thru to: Date: 2/4/2019

Ckt	Description	Phase	Amp	Poles	Notes	Ckt Totals	Specifications		
1	REC SECURITY	A	20	1		0.5	Voltage (L-L):		208
3	REC SECURITY	B	20	1		0.4	Phase:		3
5	REC JAN/MECH, TR'S	C	20	1		0.5	Wire:		4
7	REC BREAK MW	A	20	1		1.0	Bus Current Rating (Amps):		225
9	REC BREAK FRIDGE	B	20	1		0.5	Bus Material:		Cu/Al
11	REC BREAK	C	20	1		0.4	Short Circuit Current Rating (Amps)		10kA
13	REC BREEZEWAY LCD	A	20	1		0.2	Main Type:		BRKR
15	EWH-7	B	60	2		5.1	Main Rating:		225
17	-	C	-	-		5.1	Neutral Type:		FULL
19	EWH-5	A	30	1		3.5	Mounting/Encl.:	FLUSH	NEMA1
21	EWH-6	B	30	1		3.5	**2017 NEC Sections Used in Demand Calculations**		
23	HRV-1	C	20	1		0.4	Factor #	NEC Reference	Notes
25	CAD/AVL SIGN WEST	A	20	1		0.5	1	TBL 220.44 Receptacles ND	1st 10k @100%, Remainder @50%
27	CAD/AVL SIGN EAST	B	20	1		0.5			
29	CANOPY LIGHTING	C	20	1		0.2	2	TBL 220.42 Apartments General Lighting	1st 20k@50%, 20-100k @40%, >100k @30%
31	LIGHTING CONTROL PANEL	A	20	1		0.2			
33	SITE LIGHTING	B	20	1		0.8			
35	CU-1	C	50	2		5.0	3	430.24 Motors	Largest @125% Remainder @100%
37	-	A	-	-		5.0			
39	SECURITY PANEL	B	20	1		0.2	4	210.19(A)1 Cont Loads	125%
41	ACCESS CONTROL PANEL	C	20	1		0.2	5	Non-Cont Loads	100%
							6	220.51 Heating	100%
2	REC IT	A	20	1		0.4	**Feeder Load Breakdown**	**Conn(KVA)**	**Dmd Fact**
4	REC IT	B	20	1		0.4	Non-Dwelling Receptacles	5.42	1.00
6	REC IT	C	20	1		0.4	Dwelling General Illumination	0.00	0.00
8	REC WATER COOLER	A	20	1	2	0.5	Non-Continuous Lighting	0.00	1.00
10	FC-01	B	15	2		0.4	Continuous Lighting	0.65	1.25
12	-	C	-	-		0.4	Exterior Lighting	0.78	1.25
14	FC-02	A	15	2		0.1	Kitchen Appliances	0.00	1.00
16	-	B	-	-		0.1	Motors	0.00	1.00
18	FC-03	C	15	2		0.1	Largest Motor (per phase)	0.00	0.25
20	-	A	-	-		0.1	Fixed Heating	1.67	1.00
22	INTERIOR LIGHTING	B	20	1		0.5	Fixed Cooling	10.08	1.00
24	EWH-1	C	40	2	1	3.4	Non-Diversity Loads	0.00	1.00
26	-	A	-	-		3.4	Other	47.18	1.00
28	EWH-1	B	40	2	1	3.4			
30	-	C	-	-		3.4	**Connected Feeder Load Summary**		
32	EWH-1	A	40	2	1	3.4		**CONN KVA**	**CONN AMPS**	**NEC KVA**	**NEC AMPS**
34	-	B	-	-		3.4					
36	EWH-1	C	40	2	1	3.4	**PHASE A:**	**22.14**	**184.36**	**21.90**	**182.36**
38	-	A	-	-		3.4	**PHASE B:**	**19.97**	**166.26**	**20.29**	**168.92**
40	IT RACK	B	30	2		1.0	**PHASE C:**	**23.68**	**197.15**	**22.80**	**189.88**
42	-	C	-	-		1.0	**TOTAL:**	**65.78**	**182.59**	**64.99**	**180.39**

Notes: PROVIDE 54 CIRCUIT PANELBOARD WITH REMAINING SPACES AS 20A/1P SPARES
1. UNIT REQUIRES (4) SEPARATE POWER CONNECTIONS.
2. GFCI TYPE BREAKER.

Panel Loading: ACCEPTABLE

LIGHTING CONTROL PANEL SCHEDULE LCP

LCP LOCATION: JAN/MECH 008
MODEL #: ARP INTENC08 8FCR MVOLT HLK SM
LCP NAME: LCP
SUPPLY PANEL: A VOLTAGE 277

RELAY	TYPE	ZONES CONTROLLED	CIRCUIT	LOAD
1	R	LTG - EXTERIOR CANOPY	A:29	0.200
2	R	LTG - SITE LIGHTING	A:33	0.800
3	R	SPARE	-	-
4	R	SPARE	-	-
5	R	SPARE	-	-
6	R	SPARE	-	-
7	R	SPARE	-	-
8	R	SPARE	-	-

MOUNTING: SURFACE
NEMA RATING: 1
DOOR TYPE: HINGED, LOCKING
ACCESSORIES: PROVIDE PHOTOCELL FOR DUSK TO DAWN CONTROL

COFFMAN ENGINEERS
10 N. Post Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
fax 509.328.2999
coffman.com
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203 North Washington, Suite 400
Spokane, WA 99201
509.838.8568

6500 Mineral Drive, Suite 101
Coeur d'Alene, Idaho 83815
208.676.8292

alscarchitects.com

STAMP

SHEET TITLE: PANEL SCHEDULES

PROJECT NAME & ADDRESS: SCC TRANSIT CENTER
1810 N. GREENE STREET
SPOKANE, WA. 99217

CLIENT INFORMATION: BID SET

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

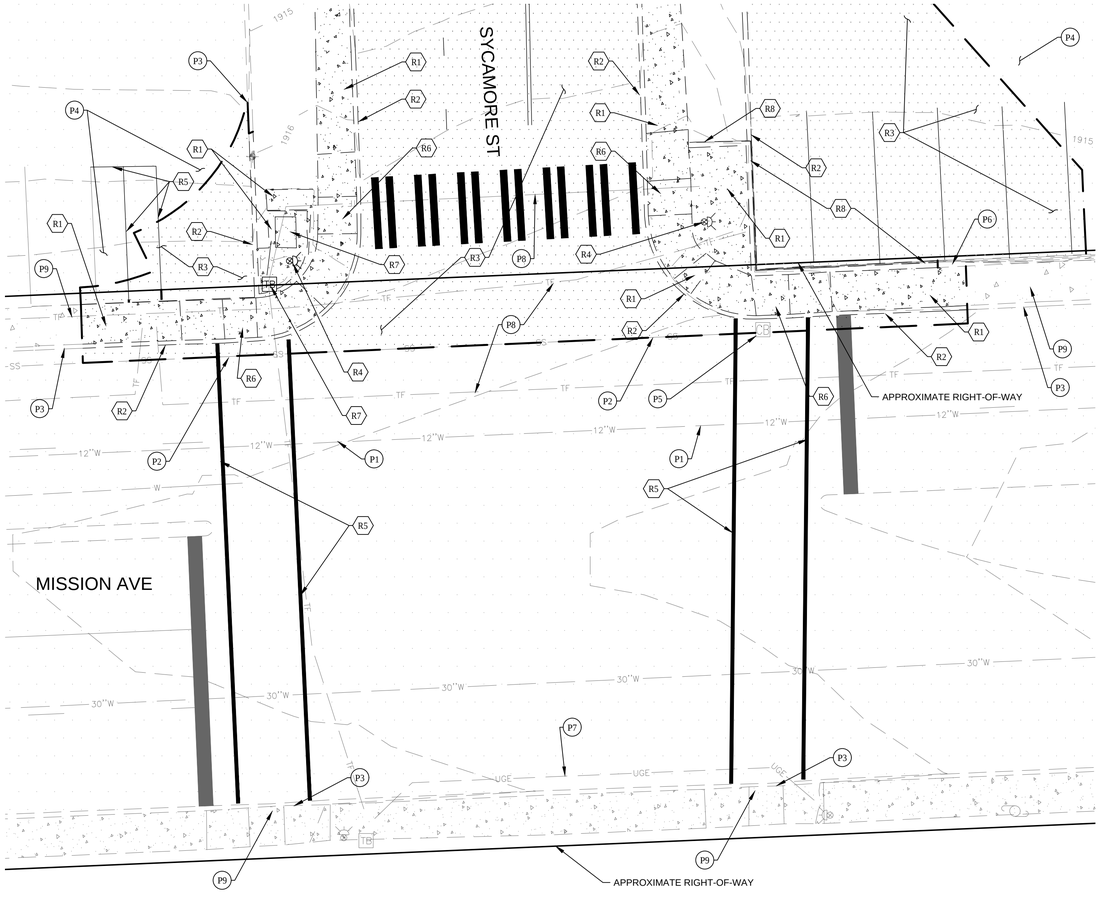
REVISIONS

No.	Date	By

PROJ. NO. 2018-10258
DRAWN MTP
CHECKED KJN
DATE 02/10/2019

SHEET E-702

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



LEGEND

SAWCUT LINE

NOTES

1. ALL CUTS TO EXISTING PAVEMENT SHALL CONFORM WITH THE SPOKANE REGIONAL PAVEMENT CUT POLICY.
2. COORDINATE TRAFFIC SIGNAL EQUIPMENT DEMOLITION AS WELL AS DEMOLITION OF EXISTING TRAFFIC SIGNAL ELECTRICAL CONDUITS WITH TRAFFIC SIGNAL PLANS.
3. CUT EXISTING RETAINING WALL DOWN 3' BELOW FINISH GRADE AND INSTALL PROPOSED IMPROVEMENTS. DEMOLITION OF EXISTING RETAINING WALL MAY NOT BEGIN UNTIL PROPOSED RETAINING WALL HAS BEEN COMPLETED PER ON-SITE PLANS.
4. TOTAL SF OF STRIPING REMOVAL IS APPROXIMATELY 260 SF.
5. ADJUST EXISTING CATCH BASIN RIM TO MATCH PROPOSED GRADES, IF NEEDED.
6. CONTRACTOR TO PROVIDE TRAFFIC CONTROL MEASURES DURING TRAFFIC SIGNAL REPLACEMENT.

KEY NOTES

- R1 REMOVE CONCRETE
- R2 REMOVE CURB
- R3 REMOVE ASPHALT
- R4 REMOVE TRAFFIC SIGNAL, SEE NOTE 2
- R5 REMOVE STRIPING
- R6 REMOVE CURB RAMP
- R7 REMOVE TRAFFIC EQUIPMENT, SEE NOTE 2
- R8 REMOVE RETAINING WALL AND RAILING, SEE NOTE 3

- P1 PROTECT WATER UTILITIES
- P2 PROTECT SANITARY SEWER UTILITIES
- P3 PROTECT CURB
- P4 PROTECT ASPHALT
- P5 PROTECT STORM WATER UTILITIES
- P6 PROTECT RETAINING WALL AND RAILING
- P7 PROTECT ELECTRICAL UTILITIES
- P8 PROTECT TELECOMMUNICATION UTILITIES
- P9 PROTECT CONCRETE

THOMAS L. ARNOLD — STATE OF WASHINGTON — 25674 — REGISTERED PROFESSIONAL ENGINEER

UTILITY STATEMENT
LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

811 Know what's **below.** **Call** before you dig.

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DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. . U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				AS BUILT							GRADE ORDINANCE LIST				

NAVD88 = (OLD CBM ELEV.) – (13.13) | AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: SET X IN CURB 26'± NORTH OF MISSION AVENUE AND 16'± WEST OF SYCAMORE STREET.

NAVD88 ELEV. 1916.07 — NAVD88 DATUM

CBM NO.

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

HORIZONTAL PLAN&PROFILE 1" = 10'
VERTICAL PROFILE ONLY –
SCALE

CURRENT CITY DESIGN STANDARDS REVISED FEBRUARY, 2007

	BY	DATES
DRAWN:	DLS	2/10/19
REVISED:	BLW	2/10/19
CHECKED:	CBM	2/10/19
APPROVED:	TLA	2/10/19

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: UPRIVER TRANSIT CENTER

SEGMENT LIMITS:

DEMOLITION PLAN

E. MISSION AVE. AND N. SYCAMORE ST.

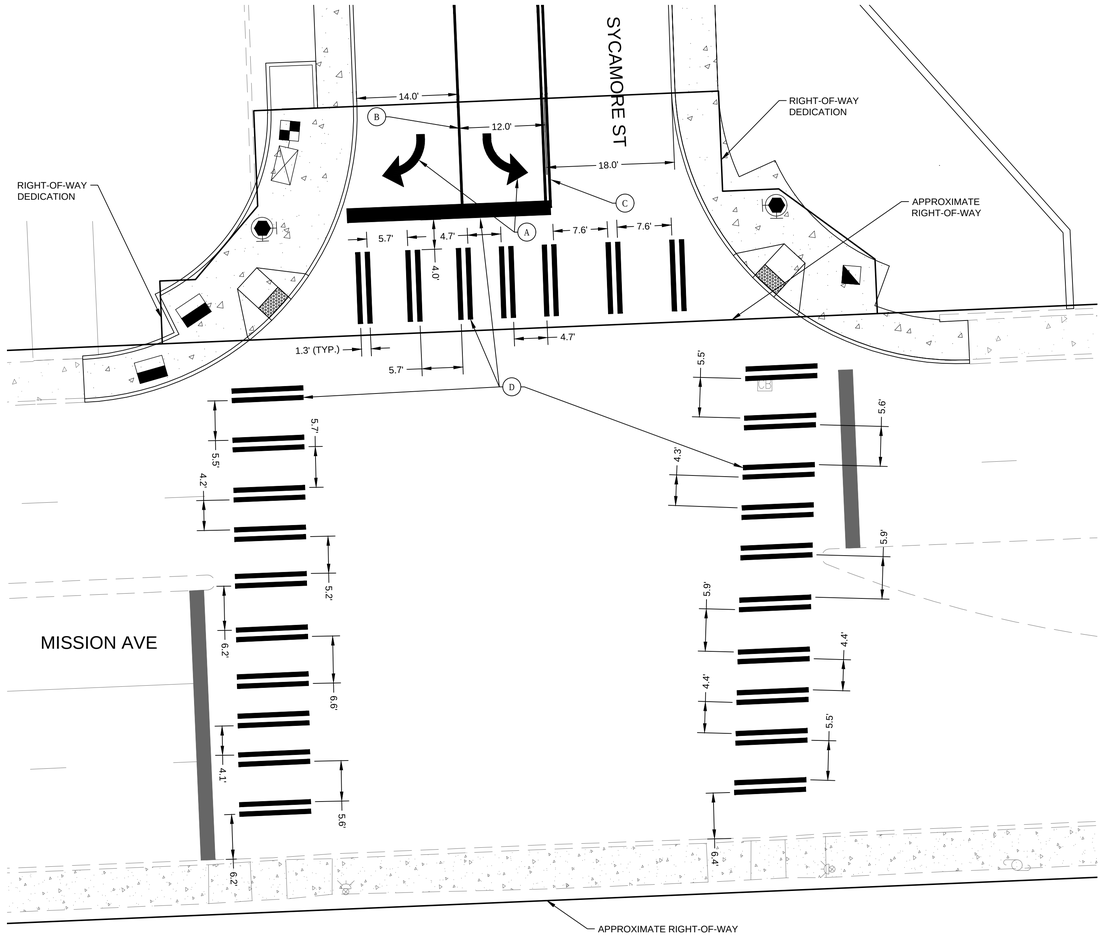
PROJECT LIMITS: –

TYPE OF IMPROVEMENT: STREET

CITY PROJECT NUMBER	CITY PLAN NUMBER
–	–

EFN: –

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



LEGEND

	CURB
	STRIPING

NOTES

(A) WHITE ARROW SYMBOL. DURABLE HEAT APPLIED THERMOPLASTIC - TYPE B, SEE CITY OF SPOKANE STANDARD PLAN G-52A.

(B) WHITE EDGE LINE PER CITY OF SPOKANE STANDARD PLAN G-50A.

(C) DOUBLE YELLOW CENTER LINE PER CITY OF SPOKANE STANDARD PLAN G-50A.

(D) LONGITUDINAL CROSSWALK AND STOP BAR SHALL BE PAINTED WHITE PER CITY OF SPOKANE STANDARD PLAN G-51.

THOMAS L. ARNOLD STATE OF WASHINGTON 25676 REGISTERED PROFESSIONAL ENGINEER

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NAVD88 ELEV. 1916.07

CBM NO.

NAVD88 DATUM

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APPROVED:	TLA	2/10/19

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: UPRIVER TRANSIT STATION

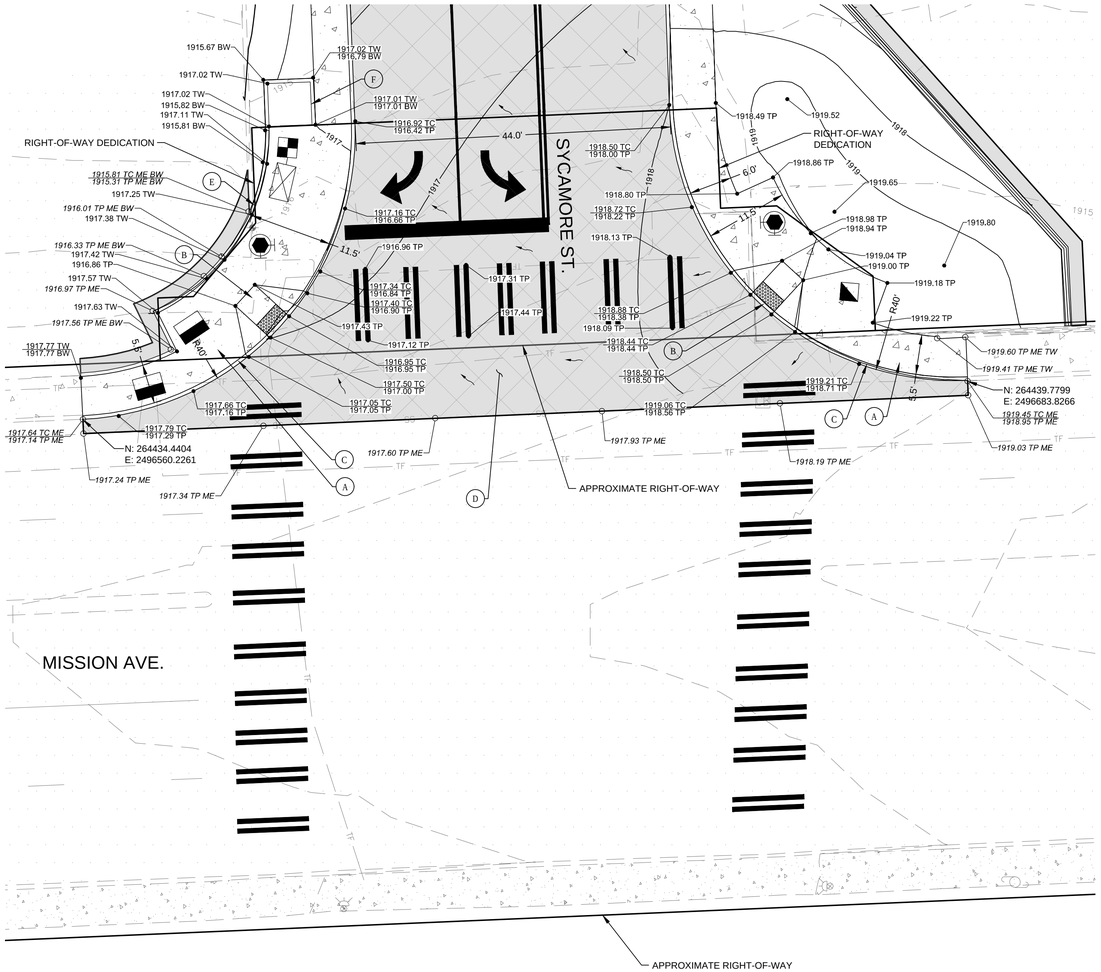
SEGMENT LIMITS:

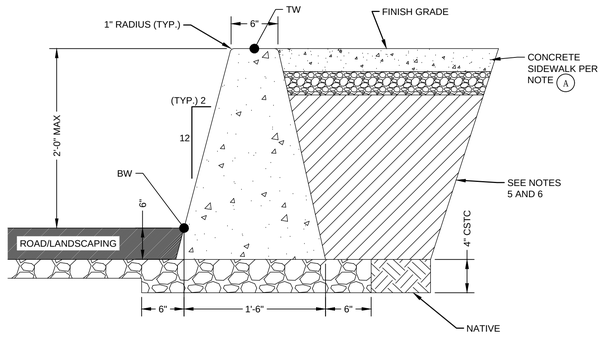
SIGNAGE AND STRIPING PLAN
E. MISSION AVE. AND N. SYCAMORE ST.

PROJECT LIMITS: –

TYPE OF IMPROVEMENT:	STREET
CITY PROJECT NUMBER	CITY PLAN NUMBER
–	–
EFN: –	–

S.10, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON





LEGEND

1879	EXISTING CONTOUR
1879	PROPOSED CONTOUR
	FLOW ARROW

ABBREVIATIONS

ME	MATCH EXISTING
TC	TOP OF CURB
TP	TOP OF PAVEMENT
TW	TOP OF WALL
BW	BOTTOM OF WALL

NOTES

(A) CONCRETE SIDEWALK SHALL CONFORM WITH CITY OF SPOKANE STANDARD PLAN F-102.

(B) CURB RAMP (TYPE 1) SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-105.

(C) CONCRETE CURB SHALL CONFORM TO CITY OF SPOKANE STANDARD PLAN F-106.

(D) HEAVY DUTY ASPHALT SHALL CONFORM TO DETAIL 1, THIS SHEET.

(E) CONCRETE CURB WALL SHALL CONFORM WITH DETAIL2, THIS SHEET.

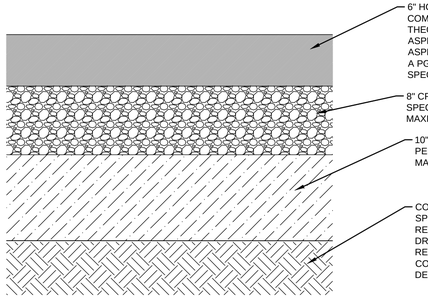
(F) ELECTRICAL TRANSFORMER

NOTES:

1. CONCRETE SHALL BE AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE IN ACCORDANCE WITH SEC 6-02.3(2)B. EXPOSED CURB WALL CONCRETE SHALL HAVE A CLASS 1 SURFACE FINISH PER SEC 6-02.3(14).
2. SEE CITY OF SPOKANE STANDARD PLAN D-105 FOR CURB WALL JOINTS AND DETAILS.
3. CURB WALL FOUNDATIONS SHALL BE PREPARED PER SEC 2-09.3(3)C AND HAVE CRUSHED SURFACING TOP COURSE (CSTC) PER SEC 9-03.9(3) PLACED UNDERNEATH THE FOOTING AT THE SPECIFIED THICKNESS AND COMPACTED TO 95% MAX DENSITY PER AASHTO T-180.
4. BACKFILL SHALL NOT BE PLACED UNTIL THE CONCRETE HAS ATTAINED 90% OF ITS DESIGN STRENGTH AND CURED FOR AT LEAST 14-DAYS PER SEC 2-09.3(1)E.
5. GRAVEL BACKFILL BEHIND CURB WALLS SHALL COMPLY WITH SEC 9-03.12(2).
6. BACKFILL BEHIND CURB WALLS IN UNTRAVELED OR LANDSCAPED AREAS SHALL BE PLACED IN 6" MAX HORIZONTAL LAYERS AND COMPACTED TO 85% MAX DENSITY PER AASHTO T-180.

2 CONCRETE CURB WALL

SCALE: NTS



NOTES:

1. PLACE ACCEPTABLE SOIL MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATIONS.
2. MATERIAL AND COMPACTION REQUIREMENTS SHALL CONFORM WITH WSDOT STANDARDS AND GEOTECHNICAL ENGINEERING RECOMMENDATIONS ASSOCIATED WITH THE SUBJECT SITE.
3. IF EXISTING SUBGRADE SOIL CONDITIONS INHIBIT PROPER COMPACTION, OVER EXCAVATE AND REPLACE SOIL WITH APPROVED ONSITE MATERIAL OR IMPORTED MATERIAL.

1 HEAVY DUTY ASPHALT

SCALE: NTS

THOMAS L. ARNOLD — STATE OF WASHINGTON — 25674 — REGISTERED PROFESSIONAL ENGINEER

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NAVD88 DATUM

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CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201–3343
(509) 625–6300

PROJECT NAME: UPRIVER TRANSIT STATION

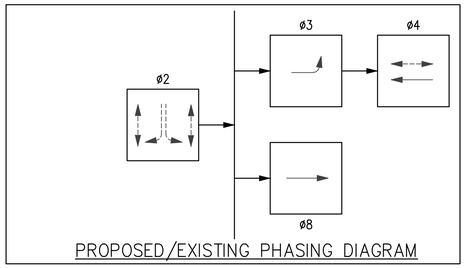
SEGMENT LIMITS: GRADING PLAN
E. MISSION AVE. AND N. SYCAMORE ST.

PROJECT LIMITS: –

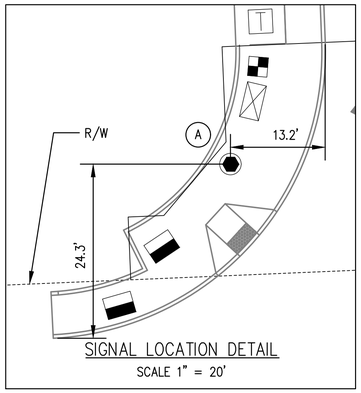
TYPE OF IMPROVEMENT: STREET

CITY PROJECT NUMBER	CITY PLAN NUMBER
–	–

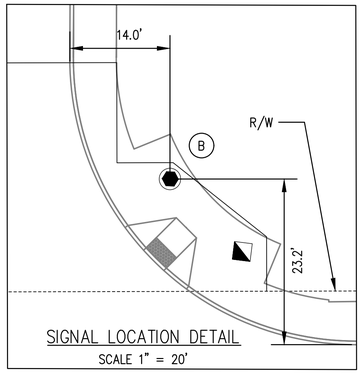
EFN:–



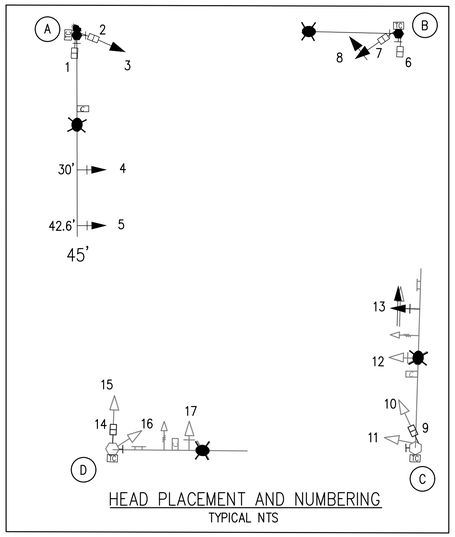
PROPOSED/EXISTING PHASING DIAGRAM



SIGNAL LOCATION DETAIL
SCALE 1" = 20'

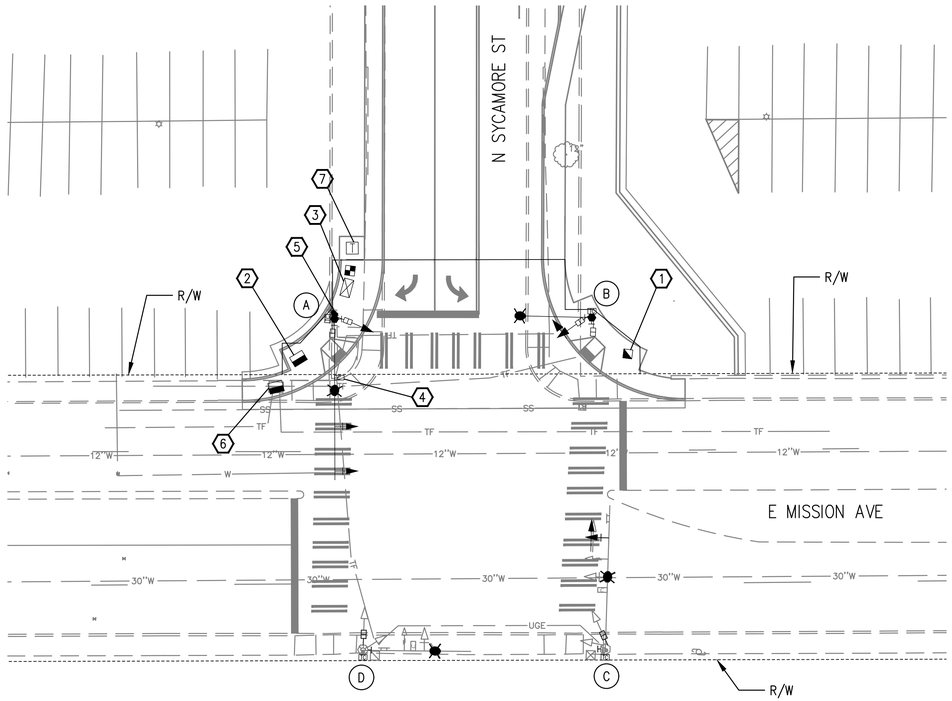


SIGNAL LOCATION DETAIL
SCALE 1" = 20'



HEAD PLACEMENT AND NUMBERING
TYPICAL NTS

HEAD ASSIGNMENT				
PHASE	ø2 SB	ø3 EB LT	ø4 WB	ø8 EB
12" VEHICLE	10, 15, 17		3, 4, 5, 16	11, 12
12" FYA		8, 13		8, 13
LED PEDESTRIAN COUNTDOWN	1, 6, 9, 14		2, 7	



CONSTRUCTION NOTES

1. INSTALL TYPE 2 J-BOX WITH NON-SLIP, GALVANIZED SURFACE.
2. INSTALL TYPE 8 J-BOX WITH NON-SLIP, GALVANIZED SURFACE.
3. INSTALL TYPE P CONTROLLER CABINET AND GROUND MOUNTED SERVICE CABINET. ENSURE 18 INCHES BETWEEN TOP OF WALL CURB AND CABINET FOUNDATION. ENSURE CABINET IS 8 FOOT CLEAR FROM N SYCAMORE ST FACE OF CURB. SEE CITY OF SPOKANE STANDARD PLANS AND SPECIAL PROVISIONS.
4. INSTALL VIDEO DETECTION SYSTEM ON SIGNAL LUMINAIRE ARM. CONTACT CITY OF SPOKANE SIGNAL AND LIGHTING FOR EXACT LOCATION AND ANGLE.
5. INSTALL GPS EMERGENCY VEHICLE PREEMPT RECEIVER ON SIGNAL POLE. SEE SPOKANE STANDARD PLANS.
6. INSTALL TYPE 8 J-BOX WITH NON-SLIP, GALVANIZED SURFACE. PROTECT IN PLACE ALL CONDUITS AND CONDUCTORS. DISCONNECT EXISTING CONDUCTORS FROM EXISTING CONTROLLER CABINET AND PULL BACK, COIL AND PROTECT AT THIS JUNCTION BOX. REINSTALL TO NEW CONTROLLER CABINET AS SHOWN IN THE WIRE NOTES, ONCE NEW CONDUIT SYSTEM IS COMPLETE AND NEW TRAFFIC SIGNAL CABINET IS INSTALLED.
7. TO BE INSTALLED BY OTHERS.

INSTALL SIGNAL EQUIPMENT

(A) TYPE 3 SIGNAL POLE FOUNDATION AND SIGNAL STANDARD; 45FT MAST ARM; 20FT LUMINAIRE ARM; 1-TERMINAL CABINET ON STANDARD WITH 6'-6" CLEARANCE FROM FINISHED GRADE TO BOTTOM OF CABINET; 2-TYPE D(3), 1-TYPE B(3)1 AND 1-TYPE P2 LED PEDESTRIAN COUNTDOWN SIGNAL MOUNTS; APS PUSH BUTTON WITH TWO WIRE SYSTEM FOR N-S AND E-W.

(B) TYPE 3 SIGNAL POLE FOUNDATION AND SIGNAL STANDARD; 40FT MAST ARM; 20FT LUMINAIRE ARM; 1-TERMINAL CABINET ON STANDARD WITH 6'-6" CLEARANCE FROM FINISHED GRADE TO BOTTOM OF CABINET; 1-TYPE B(5)1 AND 1-TYPE P2 LED PEDESTRIAN COUNTDOWN MOUNTS; APS PUSH BUTTON WITH TWO WIRE SYSTEM FOR N-S AND E-W. ACCOMPANY MAST ARM TO THE CITY SIGNAL AND LIGHTING DIVISION.

(C) EXISTING SIGNAL POLE. 1-TERMINAL CABINET ON STANDARD WITH 6'-6" CLEARANCE FROM FINISHED GRADE TO BOTTOM OF CABINET; 1-TYPE D(4), 1-TYPE P1 LED PEDESTRIAN COUNTDOWN SIGNAL MOUNTS; APS PUSH BUTTON FOR N-S. PULL EXISTING WIRING BACK FROM SIGNAL HEADS TO TERMINAL CABINET. NEW WIRING FROM TERMINAL CABINET TO SIGNAL HEADS. REPLACE EXISTING LUMINAIRE WITH NEW LED LUMINAIRE. SEE SPECIAL PROVISIONS.

(D) EXISTING SIGNAL POLE. 1-TERMINAL CABINET ON STANDARD WITH 6'-6" CLEARANCE FROM FINISHED GRADE TO BOTTOM OF CABINET; 1-TYPE P1 LED PEDESTRIAN COUNTDOWN SIGNAL MOUNT; APS PUSH BUTTON FOR N-S. PULL EXISTING WIRING BACK FROM SIGNAL HEADS TO TERMINAL CABINET. NEW WIRING FROM TERMINAL CABINET TO SIGNAL HEADS. REPLACE EXISTING LUMINAIRE WITH NEW LED LUMINAIRE. SEE SPECIAL PROVISIONS.

LEGEND

EXISTING	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1, 2 & 8
		VIDEO DETECTION CAMERA
		SIGNAL POLE
		SIGNAL POLE WITH FOUNDATION
		TRAFFIC SIGNAL CONTROLLER CABINET
		SERVICE CABINET
		TERMINAL CABINET
		LUMINAIRE
		SIGNAL POLE WITH MAST ARM
		PEDESTRIAN APS PUSH BUTTON
		SIGNAL HEAD WITH BACK PLATE
		FYA 4 SECTION SIGNAL HEAD
		SIGNAL HEAD WITHOUT BLACK PLATE
		PEDESTRIAN SIGNAL HEAD
		MAST ARM MOUNTED SIGN
		EVPE DETECTOR
		GPS EVPE DETECTOR
		POWER SOURCE

0 10 20 40 60
SCALE IN FEET

RICHARD J HUTCHINSON
STATE OF WASHINGTON
23465
REGISTERED
PROFESSIONAL ENGINEER
02/10/2019

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REVISIONS				AS BUILT					

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ORDINANCE LIST					

NAVD88 = (OLD CBM ELEV.) - (13.13) | AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: NORTHWEST BOLT ON YELLOW FIRE HYDRANT ALONG ACCESS ROAD 425'± NORTH OF ELECTRIC AVENUE

NAVD88 ELEV. 2380.97

CBM NO. –

NAVD88 DATUM

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HORIZONTAL PLAN&PROFILE

VERTICAL PROFILE ONLY

SCALE

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REVISED:		
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SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: SCC TRANSIT CENTER

SEGMENT LIMITS:

TRAFFIC SIGNAL PLAN
E MISSION AVE AND N SYCAMORE ST

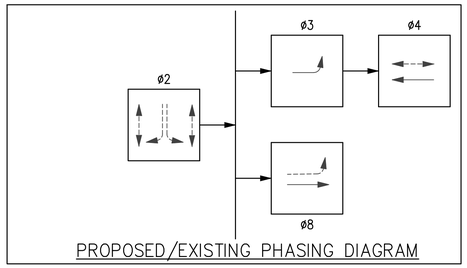
PROJECT LIMITS:

TYPE OF IMPROVEMENT: TRAFFIC

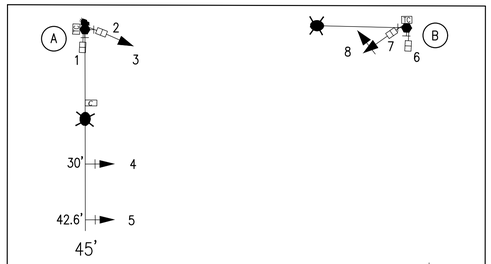
CITY PROJECT NUMBER: 2018-10258

CITY PLAN NUMBER: – –

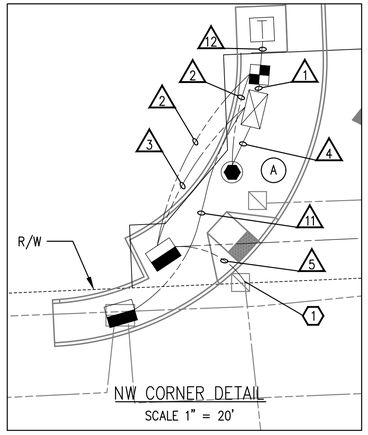
EFN:



PROPOSED/EXISTING PHASING DIAGRAM



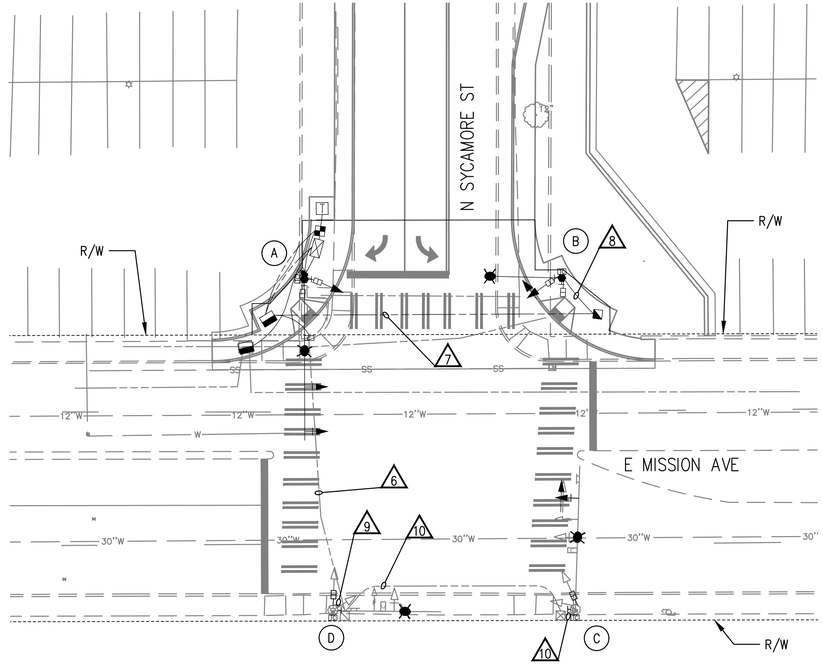
HEAD PLACEMENT AND NUMBERING
TYPICAL NTS

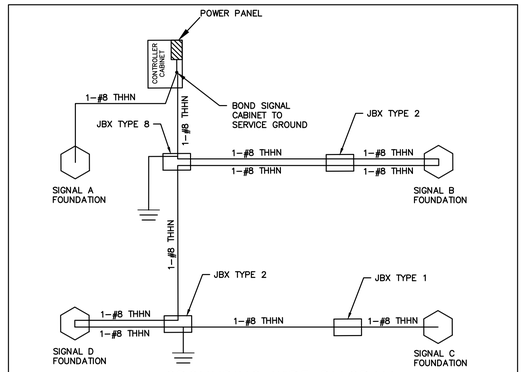


NW CORNER DETAIL
SCALE 1" = 20'

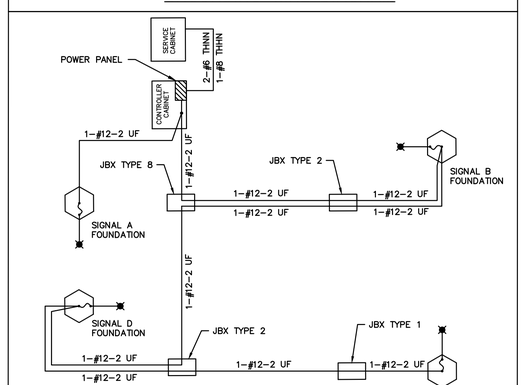
CONSTRUCTION NOTES

1. INTERCEPT EXISTING CONDUIT AND JOIN NEW CONDUIT TO EXISTING.





GROUNDING WIRE DIAGRAM



ILLUMINATION DIAGRAM

SIGNAL WIRING SCHEDULE

	INSTALL CONDUIT OR USE EXISTING CONDUIT	INSTALL WIRE	PURPOSE
1	2" PVC (SCH. 80)	2–#6 THNN, 1–#8 THNN EQ. GRND.	SERVICE
2	3" PVC (SCH. 80)	1–#12–2UF, 1–#8 THNN EQ. GRND.	SIGNAL
3	3" PVC (SCH. 80)	1–#14–20 COND., 1–#12–2UF, 1–#8 THNN EQ. GRND.	SIGNAL
	3" PVC (SCH. 80)	1–#14–20 COND., 2–BELDEN 8281 COAXIAL CABLE.	SIGNAL
	3" PVC (SCH. 80)	1–#14–20 COND.	SIGNAL
4	3" PVC (SCH. 80)	1–#14–20 COND., 1–#8 THNN EQ. GRND., 1–BELDEN 8281 COAXIAL CABLE.	SIGNAL
5	3" C.(GS)	2–#14–20 COND., 1–#12–2UF, 1–#8 THNN EQ. GRND., 2–BELDEB 8281 COAXIAL CABLE.	SIGNAL
	3" C.(GS)	1–#14–THNN.	FUTURE SIGNAL
6	3" C.(GS) (EX)	2–#14–20 COND., 1–#12–2UF, 1–#8 THNN EQ. GRND., 2–BELDEB 8281 COAXIAL CABLE.	SIGNAL
	3" C.(GS) (EX)	1–#14–THNN.	FUTURE SIGNAL
7	3" PVC (SCH. 80)	1–#14–20 COND., 2–#12–2UF, 2–#8 THNN EQ. GRND.	SIGNAL
	3" PVC (SCH. 80)	1–#14–THNN.	FUTURE SIGNAL
8	3" PVC (SCH. 80)	1–#14–20 COND., 2–#12–2UF, 2–#8 THNN EQ. GRND.	SIGNAL
9	3" C.(GS) (EX)	1–#14–20 COND., 2–#12–2UF, 2–#8 THNN EQ. GRND., 1–BELDEN8281 COAXIAL CABLE.	SIGNAL
10	3" C.(GS) (EX)	1–#14–20 COND., 1–#12–2UF, 1–#8 THNN EQ. GRND., 1–BELDEN8281 COAXIAL CABLE.	SIGNAL
11	3" PVC (SCH. 80)	1–#14–2 TP SHIELDED (EX)	RAIL INTERCONNECT
	3" PVC (SCH. 80)	1–#22–6 TP SHIELDED, 1–#10–2 UF (EX)	RAIL INTERCONNECT
	4" PVC (SCH. 80)	2–#22–25 TP SHIELDED (EX)	RAIL INTERCONNECT
	4" PVC (SCH. 80)	POLY PULL STRING (EX)	RAIL INTERCONNECT
12	2" PVC (SCH. 80)	3–#2/0, 1#4G.*	POWER

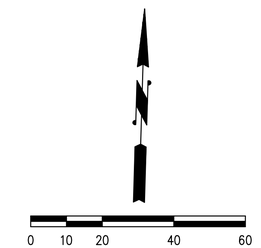
NOTE: (EX)–EXISTING
* TO BE INSTALLED BY AVISTA. COORDINATE WITH AVISTA FOR ELECTRIFICATION OF SYSTEM.

PRE–EMPTION SCHEDULE

POLE	CIRCUIT	PHASE
POLE A	A	2
---	B	3
---	C	4
---	D	8

LEGEND

EXISTING	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1, 2 & 8
		CONDUIT
		VIDEO DETECTION CAMERA
		SIGNAL POLE
		SIGNAL POLE WITH FOUNDATION
		TRAFFIC SIGNAL CONTROLLER CABINET
		SERVICE CABINET
		TERMINAL CABINET
		LUMINAIRE
		SIGNAL POLE WITH MAST ARM
		PEDESTRIAN APS PUSH BUTTON
		SIGNAL HEAD WITH BACK PLATE
		FYA 4 SECTION SIGNAL HEAD
		SIGNAL HEAD WITHOUT BLACK PLATE
		PEDESTRIAN SIGNAL HEAD
		MAST ARM MOUNTED SIGN
		EVPE DETECTOR
		GPS EVPE DETECTOR
		POWER SOURCE



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NAVD88 ELEV. 2380.97

CBM NO. –

NAVD88 DATUM

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HORIZONTAL PLAN&PROFILE
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SCALE

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SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201–3343
(509) 625–6300

PROJECT NAME: SCC TRANSIT CENTER

SEGMENT LIMITS: SIGNAL WIRING PLAN
E MISSION AVE AND N SYCAMORE ST

PROJECT LIMITS:

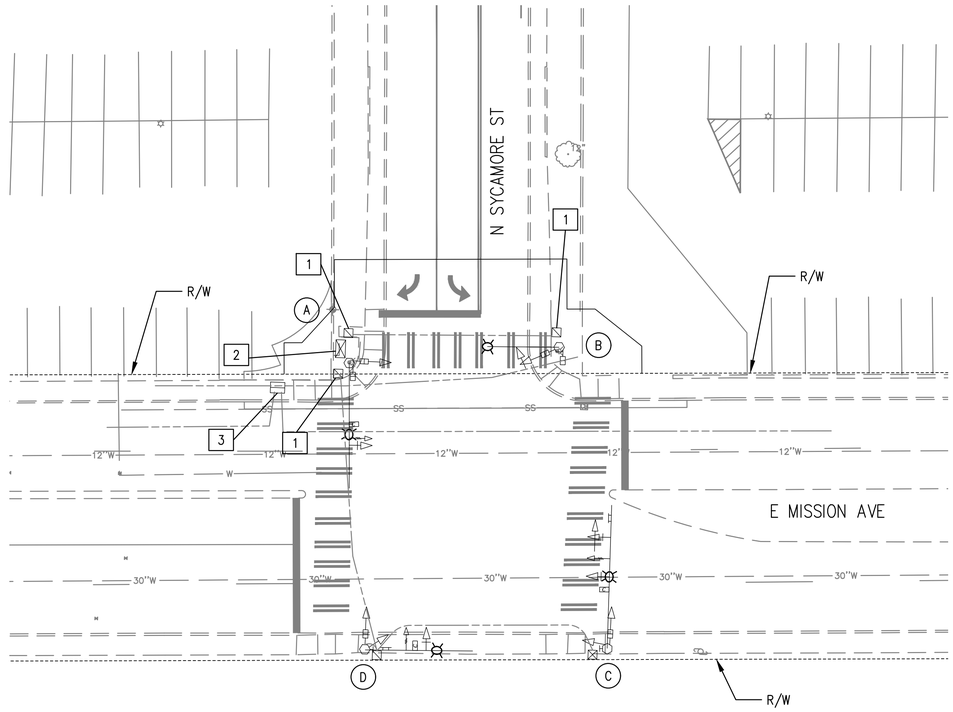
TYPE OF IMPROVEMENT:	TRAFFIC
CITY PROJECT NUMBER	CITY PLAN NUMBER
2018–10258	–
EFN:	–

REMOVAL CONSTRUCTION NOTES

1. REMOVE EXISTING TYPE 2 JUNCTION BOX.
2. REMOVE EXISTING TYPE P FOUNDATION. SALVAGE CONTROLLER AND CABINET.
3. SEE TRAFFIC SIGNAL PLAN SHEET 4 FOR REROUTING THE EXISTING CONDUCTORS. REMOVE EXISTING TYPE 8 JUNCTION BOX. PROTECT IN PLACE ALL EXISTING CONDUITS AND CONDUCTORS TO REMAIN.

NOTE

1. CONTRACTOR SHALL COORDINATE WITH AVISTA TO MOVE POWER PRIOR TO SIGNAL STANDARD REMOVAL.



LEGEND

EXISTING	NEW	DESCRIPTION
		JUNCTION BOX TYPE 2 & 8
		CONDUIT
		VIDEO DETECTION CAMERA
		SIGNAL POLE
		TRAFFIC SIGNAL CONTROLLER CABINET
		LUMINAIRE
		SIGNAL POLE WITH MAST ARM
		PEDESTRIAN APS PUSH BUTTON
		SIGNAL HEAD WITH BACK PLATE
		5 SECTION SIGNAL HEAD
		SIGNAL HEAD WITHOUT BLACK PLATE
		PEDESTRIAN SIGNAL HEAD
		MAST ARM MOUNTED SIGN
		EVPE DETECTOR

EXISTING SIGNAL EQUIPMENT TO BE SALVAGED

(A) REMOVE EXISTING TYPE 3 SIGNAL STANDARD AND FOUNDATION, SALVAGE SIGNAL EQUIPMENT. RELOCATE EXISTING DETECTION CAMERA WITH ALL ASSOCIATED EQUIPMENT AND WIRING TO NEW LUMINAIRE ARM ON NEW SIGNAL POLE. SEE TRAFFIC SIGNAL PLAN CONSTRUCTION NOTE 4 FOR LOCATION OF THE DETECTION CAMERA. RETURN SIGNAL EQUIPMENT TO THE CITY OF SPOKANE SIGNAL AND LIGHTING DIVISION. LEGALLY DISPOSE FOUNDATION.

(B) REMOVE EXISTING TYPE 3 SIGNAL STANDARD AND FOUNDATION, SALVAGE SIGNAL EQUIPMENT. RETURN SIGNAL EQUIPMENT TO THE CITY OF SPOKANE SIGNAL AND LIGHTING DIVISION. LEGALLY DISPOSE FOUNDATION.

(C) REMOVE AND SALVAGE EVPE DETECTION SYSTEM, PEDESTRIAN PUSH BUTTON, 12" PENTAGON BALL SIGNAL WITH SIGNAL MOUNT AND PEDESTRIAN SIGNAL HEAD. RETURN SIGNAL EQUIPMENT TO THE CITY OF SPOKANE SIGNAL AND LIGHTING DIVISION.

(D) REMOVE AND SALVAGE EVPE DETECTOR SYSTEM, PEDESTRIAN PUSH BUTTON AND PEDESTRIAN SIGNAL HEAD. RETURN SIGNAL EQUIPMENT TO THE CITY OF SPOKANE SIGNAL AND LIGHTING DIVISION.

0 10 20 40 60
SCALE IN FEET

RICHARD J. HUTCHINSON — STATE OF WASHINGTON — 43665 — REGISTERED PROFESSIONAL ENGINEER
02/10/2019

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NAVD88 ELEV. 2380.97

CBM NO. –

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DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: SCC TRANSIT CENTER

SEGMENT LIMITS:

SALVAGE PLAN
E MISSION AVE AND N SYCAMORE ST

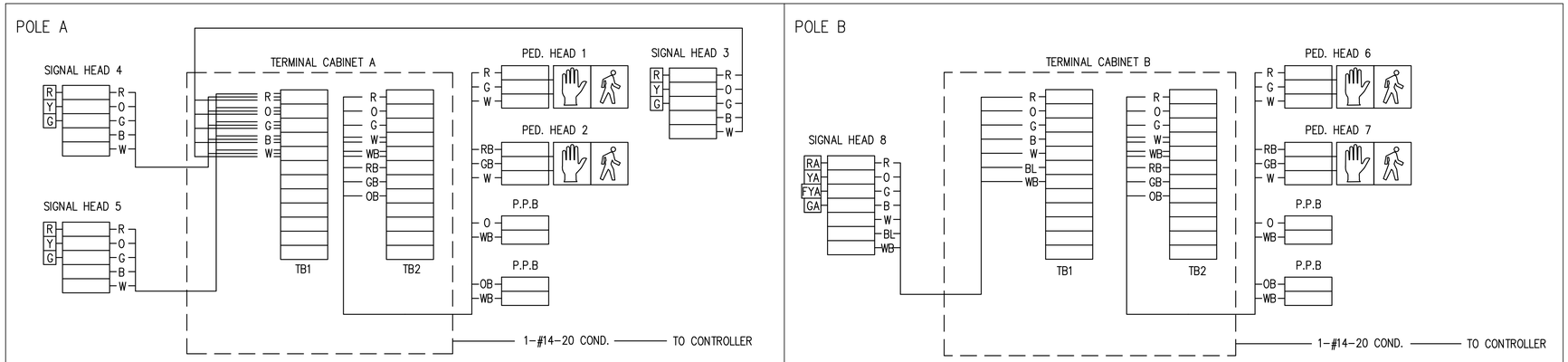
PROJECT LIMITS:

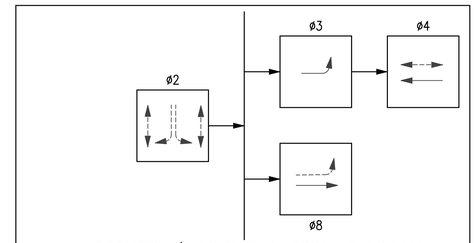
TYPE OF IMPROVEMENT: TRAFFIC

CITY PROJECT NUMBER	CITY PLAN NUMBER
2018–10258	–

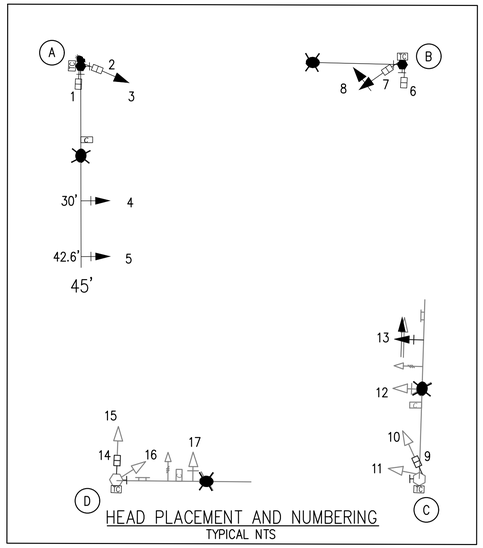
EFN: –

FIELD WIRE TERMINATIONS





PROPOSE/EXISTING PHASING DIAGRAM



HEAD PLACEMENT AND NUMBERING
TYPICAL NTS

PRE-EMPTION SCHEDULE		
POLE	CIRCUIT	PHASE
POLE A	A	2
---	B	3
---	C	4
---	D	8

SIGNAL HEAD COLOR LEGEND

R = RED
Y = YELLOW
G = GREEN BALL
RA = RED ARROW
GA = GREEN ARROW
YA = YELLOW ARROW
FYA = FLASHING YELLOW ARROW

SIGNAL WIRING COLOR LEGEND

R = RED
O = ORANGE
G = GREEN
B = BLACK
W = WHITE
BL = BLUE
WB = WHITE/BLACK STRIPE

NOTES

1. LABEL EACH WIRE WITH APPROPRIATE HEAD NUMBER AT TERMINAL STRIP IN CAN.
2. SPARE CONDUCTORS SHALL BE SAFED OFF IN THE TERMINAL CABINET.

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RICHARD J HUTCHINSON
STATE OF WASHINGTON
43665
REGISTERED
PROFESSIONAL ENGINEER
02/10/2019

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CITY PROJECT NUMBER: 2018-10258
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