REGULATIONS GOVERNING THE LAYING AND REPAIR OF CONCRETE SIDEWALKS, APRONS, AND CURBING

CONCRETE WALKS SHALL BE OF ONE-COURSE CONSTRUCTION AND SHALL BE 4.5 INCHES IN THICKNESS, EXCEPT ALONG ARTERIAL AND COLLECTOR STREETS WHERE THEY MUST BE 6 INCHES IN THICKNESS. CONCRETE FOR WALKS, CURBS, DRIVES, AND APRONS SHALL BE CLASS "C" CONCRETE AS PER ITEM 608 AND SPECIAL OF THE "SUPPLEMENTAL TO STATE SPECIFICATIONS FOR THE CITY OF CLEVELAND" 1967 .

WHEN CONCRETE BLOCKS ARE LAID ON CLAY, EXTRA EXCAVATION TO A DEPTH OF 1 1/2 INCHES MUST BE MADE AND FILLED WITH SAND OR GRAVEL TO ACT AS A FOUNDATION TO THE FOUR INCHES OF SIDEWALK PROPER.

NO BLOCKS OFF CONCRETE SHALL BE LARGER THAN 6 FEET AND THE JOINTS MUST BE CUT BY THE USE OF AN APPROVED GROOVING TOOL MAKING A GROOVE ONE-FOURTH (1/4") INCHES DEEP. ALL EDGES SHALL BE ROUNDED WITH AN APPROVED EDGING TOOL TO A RADIUS OF ONE-FOURTH INCH.

EXISTING APRONS AND "DRIVE AREAS" OF THE WALK MUST BE CONSTRUCTED OF CONCRETE. APRONS AND THE AREA OF WALK OVER WHICH VEHICLES DRIVE MUST BE NO LESS THAN 6 INCHES IN THICKNESS, AND MUST BE LAID IN ACCORDANCE WITH SUPPLEMENTAL TO STATE SPECIFICATIONS FOR THE CITY OF CLEVELAND.

AT ALL WATER-METER COVERS, GAS BOXES, HYDRANTS, OR OTHER OBSTRUCTIONS, NEATLY FITTED OPENINGS SHALL BE CUT IN THE SIDEWALK. NO WALK SHALL BE LAID UNTIL ALL THESE OBSTRUCTIONS HAVE BEEN RAISED OR LOWERED TO THE CORRECT ELEVATIONS.

NO OBSTRUCTIONS SHALL BE PLACED IN FRONT OF ANY CATCH BASIN, FIRE HYDRANT, FIRE ALARM BOX OR LETTERBOX, OR NEAR ENOUGH TO THE SAME TO INTERFERE WITH THEIR USE.

NO CHANGE IN THE WIDTH OF THE WALK TO BE LAID SHALL BE MADE FROM THAT OF EXISTING WALKS ON THE STREET AT THE TIME WORK IS DONE UNDER THIS PERMIT, UNLESS SPECIALLY PERMITTED BY THE DIRECTOR OF PUBLIC SERVICE. TREES, LAWNS, AND SHRUBBERY SHALL NOT BE INTERFERED WITH OR DESTROYED BY ANY WORK PERFORMED BY THE CONTRACTOR. WALKS MUST BE LAID TO THE SAME GRADE AS EXISTING WALKS ON THE STREET, UNLESS PERMISSION FOR CHANGE OF GRADE IS OBTAINED FROM THE DIRECTOR OF PUBLIC SERVICE.

ONLY ONE-HALF OF THE SIDEWALK IN THE BUSINESS DISTRICT CAN BE OBSTRUCTED AT ONE TIME, UNLESS CONTRACTOR HAS AN OBSTRUCTION PERMIT. GUTTERS MUST BE LEFT OPEN AT ALL TIMES.

THE SPACING BETWEEN THE WALK AND THE CURB LINE MUST BE GRADED TO ALLOW WATER DRAINAGE, AND MUST BE OF A GRADUAL SLOPE FROM THE WALK TO THE CURB LINE.

THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DIRT AND RUBBISH CAUSED BY HIS WORK.

FAILURE OF A CONTRACTOR TO COMPLY WITH THESE REGULATIONS SHALL RESULT IN THE WITHHOLDING OF FUTURE PERMITS AND SHALL SUBJECT THE HOLDER OF THIS PERMIT TO THE PENALTIES PRESCRIBED IN THE SIDEWALK ORDINANCE.

CURBING: CURBING SHALL CONFORM TO THE STANDARDS ESTABLISHED FOR SIZE AND QUALITY IN THE DISTRICT IN WHICH IT IS TO BE INSTALLED. CAST-IN-PLACE CONCRETE CURBS AND INTEGRAL CURBS, WHERE USED, SHALL CONFORM TO DETAIL PLAN NO. ME-246 OF THE CITY OF CLEVELAND.

COPIES OF THESE SPECIFICATIONS AND PLANS FOR PAVEMENT REPAIR AND LAYING OF CONCRETE SIDEWALKS MAY BE OBTAINED, UPON REQUEST, FROM THE DIVISION OF ENGINEERING AND CONSTRUCTION OF THE CITY OF CLEVELAND.

SCOPE OF WORK

A. THE CONTRACTOR SHALL RELOCATE OR REMOVE ALL CLEVELAND PUBLIC POWER FACILITIES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER ONLY AFTER CPP HAS VISIBLY CONFIRMED THAT SAID CPP FACILITIES HAVE BEEN DE-ENERGIZED AND DISCONNECTED. THIS WORK SHALL BE PROPERLY COMPLETED, INCLUDING INCIDENTALS, AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED.

B. THE MAJOR ITEMS OF WORK TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE AS FOLLOWS:

WORK BY THE PROJECT CONTRACTOR:

THE CONTRACTOR SHALL CONSTRUCT THE CPP UNDERGROUND POWER DISTRIBUTION NETWORK WITHIN THE PROJECT LIMITS. THIS WORK INCLUDES BUT IS NOT LIMITED TO:

- FURNISHING AND INSTALLING CONCRETE ENCASED PVC DUCT BANKS OF VARIOUS ARRANGEMENTS

- FURNISHING AND INSTALLING 36" ROUND CPP CASTINGS FOR MANHOLES LOCATED AT STA. 7+66 & STA. 11+82.

- MODIFYING EXISTING VAULTS TO ACCOMODATE THE PROPOSED 5" CONDUITS.

- REMOVING EXISTING UNDERGROUND DUCT BANKS AND MANHOLE CASTINGS.

- COORDINATING WITH CPP AND ITS CONTRACTORS

- REMOVING EXISTING CPP OWNED POWER POLES

- FURNISHING AND INSTALLING FIBER REINFORCED EPOXY (FRE) DUCT BANK SYSTEMS ACROSS BRIDGES INCLUDING BEAM SUPPORT SYSTEMS

- FINISHING AND INSTALLING WOODEN POWER POLES FOR TRANSITIONS FROM UNDERGROUND TO OVERHEAD SYSTEMS AND WHERE OVERHEAD SYSTEMS ARE IMPACTED BY PROJECT CONTRACTOR'S WORK

- FURNISHING AND INSTALLING OVERHEAD ELECTRICAL CABLES, SPLICES AND HARDWARE

WORK BY CPP:

- DE-ENERGIZING ELECTRICAL SYSTEM

- REMOVING EXISTING CPP PRIMARY DISTRIBUTION CABLES ACROSS SCRANTON ROAD OVER IR-90 AFTER CABLES HAVE BEEN DE-ENERGIZED.

- FURNISHING AND INSTALLING NEW ELECTRICAL CABLE IN DUCTS.

- TESTING NEW PRIMARY DISTRIBUTION CABLES.

- INSTALLING CABLE ID TAGS ON NEW CABLES AS NECESSARY.

- ENERGIZING ELECTRICAL SYSTEM

ALONG PORTIONS OF THE CORRIDOR, THE PROJECT CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE EXISTING ELECTRICAL SYSTEM UNTIL COMPLETION AND ACTIVATION OF THE PROPOSED UNDERGROUND POWER SYSTEM. THE CONTRACTOR SHALL COORDINATE THE DETAILS OF THIS WORK WITH CPP.

SUBMITTALS

IN ADDITION TO THE REQUIREMENTS OF CMS 105, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY CPP ENGINEERING DEPARTMENT ON ALL EQUIPMENT AND MATERIAL FURNISHED AND REQUIRED TO PERFORM THE WORK.

DEFINITIONS

WHENEVER IN THESE SPECIFICATIONS OR IN ANY DOCUMENT OR INSTRUCTIONS ON CONSTRUCTION WHERE THESE SPECIFICATIONS GOVERN, THE FOLLOWING TERMS (OR PRONOUNS IN PLACE OF THEM)ARE USED, THE INTENT AND MEANING SHALL BE INTERPRETED AS FOLLOWS: THE CITY OF CLEVELAND, IS THE DIRECTOR OF CITY OF CLEVELAND DEPARTMENT OF PUBLIC UTILITIES.

STATUS OF CITY INSPECTOR

INSPECTORS AS DESIGNATED BY THE CITY OF CLEVELAND SHALL BE AUTHORIZED TO INSPECT ALL WORK DONE AND MATERIALS FURNISHED. SUCH INSPECTING MAY EXTEND TO ALL OR ANY PART OF THE WORK, AND TO THE PREPARATION OR MANUFACTURING OF THE MATERIALS TO BE USED IN THE WORK. THE CITY INSPECTOR, AS DESIGNATED BY THE DIRECTOR OF PUBLIC UTILITIES SHALL GIVE WORK INSTRUCTIONS TO THE PROJECT ENGINEER.

ITEM 625 - CONDUIT, CONCRETE ENCASED, AS PER PLAN

THIS ITEM CONSISTS OF CONSTRUCTING NINE (9) 5 INCH CONDUITS IN A CONCRETE ENVELOPE WITH 4000 PSI (CITY OF CLEVELAND CONCRETE MIX SPECIFICATIONS) AS PER THE DETAILED DRAWINGS. ENCASED CONCRETE CONDUITS SHALL BE MEASURED FROM THE CENTER OF THE ADJUSTED CPP MANHOLES. PAYMENT SHALL BE FOR ACCEPTED QUANTITIES PER FOOT FOR FURNISHING AND INSTALLING THE NINE (9) 5 INCH CONDUITS ENCASED IN A CONCRETE ENVELOPE FOR ITEM 625 - CONDUIT, CONCRETE ENCASED, AS PER PLAN. ANY PAVEMENT, CURB AND SIDEWALK THAT IS OUTSIDE THE PROPOSED FULL DEPTH PAVEMENT LIMITS AND IS DISTURBED TO PERFORM THIS WORK SHALL BE REPLACED IN KIND. PAYMENT FOR PERFORMING THE WORK SHALL BE INCIDENTAL TO THIS ITEM.

THE FOLLOWING ITEMS HAVE BEEN ADDED TO THE PLANS AND CARRIED TO THE GENERAL SUMMARY FOR PERFORMING THIS WORK.

ITEM 625 - CONDUIT, CONCRETE ENCASED, AS PER PLAN (5" PVC)

ITEM 625 - TRENCH, 48" DEEP

ITEM 625 - CONDUIT, MISC.: CPP BRIDGE MOUNTED CONDUITS AND INCIDENTALS

THIS ITEM CONSISTS OF CONSTRUCTING THE FRE CONDUITS IN THE BRIDGE STRUCTURE, UTILITY SUPPORT HANGERS AND ALL INCIDENTAL ITEMS SUCH AS CONDUIT FRAME, COUPLINGS AND EXPANSION JOINTS. FRE CONDUIT SHALL CONFORM TO UL1684 & 1684A AND SHALL HAVE A MINIMUM WALL THICKNESS OF 0.110 INCHES. FRE CONDUIT SHALL HAVE A 5 INCH INSIDE DIAMETER MOUNTED AS INDICATED ON THE DRAWINGS. COUPLINGS SHALL HAVE A BELL ON ONE END AND A SPIGOT ON THE OTHER END. ALL COUPLINGS SHALL BE MADE OF THE SAME MATERIAL. EXPANSION FITTINGS SHALL BE PROVIDED ON ALL EXPOSED CONDUIT RUNS.

THIS ITEM SHALL ALSO INCLUDE ALL MATERIALS AND LABOR FOR GRID STYLE CONDUIT SUPPORT BRACKET AS SHOWN ON THE BRIDGE PLANS. THE CONTRACTOR SHALL COORDINATE WITH CPP AND GET CPP APPROVAL BEFORE ORDERING THE BRACKETS.

PAYMENT SHALL BE MADE AT THE BID PRICE PER LINEAR FOOT OF CONDUIT PER ITEM 625, CONDUIT, MISC.: CPP BRIDGE MOUNTED CONDUITS & INCIDENTALS AND INCLUDES THE ENTIRE LENGTH OF CONDUIT THAT RUNS ACROSS THE BRIDGE.

ITEM 625 - CONDUIT, CONCRETE ENCASED, AS PER PLAN (5" PVC)

A. WORK INCLUDED

THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR AND SHALL PROPERLY CONSTRUCT AND CONNECT TO MANHOLES, AS SHOWN ON THE PLANS OR AS DIRECTED. ALL NON-REINFORCED AND REINFORCED CONCRETE ENCASED PVC/FRE CONDUIT AS REQUIRED FOR THE PROPER COMPLETION OF THE WORK INCLUDED UNDER THIS CONTRACT. ALL CONDUITS SHALL BE CONCRETE ENCASED UNLESS NOTED OTHERWISE.

B. CONDUIT AND FITTINGS

POLYVINYL CHLORIDE PVC CONDUIT SHALL CONFIRM TO THE UL651 STANDARDS, 5 INCH IRON PIPE SIZE (I.P.S) WITH CONCRETE ENCASEMENT AS DETAILED ON THE PLANS. COUPLINGS SHALL BE SOCKET TYPE, END BELLS AT MANHOLE ENTRANCE, 5 DEGREES SWEEPS, 11 1/4 DEGREE TO 90 DEGREES INCLUDING FILED DEGREES ANGLE COUPLINGS, STANDARD COUPLINGS, VARIOUS BENDS AND PLUGS OR CAPS TO CLOSE UNUSED CONDUITS, SHALL BE MADE OF THE SAME MATERIAL AS THE CONDUIT. CONDUIT SPACERS SHALL BE SURE AS SHOWN IN THE PLAN DETAILS. CONCRETE BLOCK SPACERS WILL NOT BE ACCEPTED.

C. CONCRETE

CONCRETE USED FOR ENCASEMENT OF CONDUITS SHALL CONFORM TO ROADWAY PLAN GENERAL NOTE CONCRETE DESIGN MIX (CLEVELAND 650). 4000 PSI CITY OF CLEVELAND MIX.

D. INSTALLATION

CONDUIT SHALL BE INSTALLED BY THE BUILT-UP METHOD WITH JOINTS IN ADJACENT DUCTS STAGGERED. NECESSARY SPACERS SHALL BE PLACED AT NO GREATER THAN 8 FEET INTERVALS TO HOLD DUCTS IN THE DESIRED CONFIGURATION, WITH THE DUCT BANK BRACED SECURELY TO KEEP IT FROM SHIFTING AND FLOATING WHILE CONCRETE IS POURED. SEALER COMPOUND FURNISHED BY THE CONDUIT AND EACH SECTION SHALL BE TAPED SECURELY INTO PLACE IN THE PREVIOUS COUPLING TO OBTAIN JOINTS THAT ARE TIGHT AND LEAK-PROOF.

1. CONCRETE SHALL BE WORKED INTO SPACES BETWEEN DUCTS SO THAT THE CONDUIT BANK IS EFFECTIVELY ENCASED IN CONCRETE WITHOUT VOIDS OR EMPTY SPACES. REINFORCING RODS SHALL BE INSTALLED AS REQUIRED AND WHERE SHOWN ON THE PLANS.

2. CONDUIT WHICH IS CUT TO FIT SHORT SECTIONS SHALL BE DEBURRED ON THE DUCT END AND THE END OF THE BELL SHALL BE REAMED IN THE INSIDE DIAMETER FOR EACH ENTRY OF THE DUCT INTO COUPLING TO PRODUCE THE SAME JOINTING CONDITIONS AS PROVIDED BY FACTORY MADE CONDUIT SECTIONS.

3. THE END BELLS SHALL BE GROUTED IN PLACE.

4. INSTALL PULLING LINE IN EACH CONDUIT.

E. BACKFILLING

REFER TO NOTES "BACKFILL MATERIAL AND BACKFILLING PROCEDURES AND FLOWABLE FILL SPECIFICATION FOR UTILITY TRENCHES".

CALCULATED AA CHECKED EAH

CLEVELAND PUBLIC POWER NOTES

CUY-90-14.52

5C 91

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5A		6	18	24	42	45	45A	46				01/BRO/BR	02/NFP/BR						
																		LIGHTING	
							2					2		202	75801	2	EACH	DISCONNECT EXISTING CIRCUIT, AS PER PLAN	45A
								24				24		625	00450	24	EACH	CONNECTION, FUSED PULL APART	
								16				16		625	10614	16	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE	
								3,741				3,741		625	23000	3,741	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	
								312				312		625	23306	312	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
								1,516				1,516		625	25402	1,516	FT	CONDUIT, 2", 725.05	
								1,050				1,050		625	25803	1,050	FT	CONDUIT, CONCRETE ENCASED, AS PER PLAN (2")	45
								4				4		625	27561	4	EACH	LUMINAIRE, INSTALLATION ONLY, AS PER PLAN	45
								417				417		625	29200	417	FT	TRENCH, 48" DEEP	
								7				7		625	29920	7	EACH	STRUCTURE JUNCTION BOX	
								1				1		625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM	
								1				1		625	34001	1	EACH	POWER SERVICE, AS PER PLAN	45
								1				1		625	34450	1	EACH	CONTROL CENTER CABINET, COMPLETE	
								4				4		625	35011	4	EACH	REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN	45
								2				2		625	39520	2	EACH	PULL BOX CLEANED	
						LS						LS		SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	45
								5				5		625	98000	5	EACH	LIGHTING, MISC.: CPP STREET LIGHTING PULL BOX	45
																		ELECTRICAL	
								166					166	202	98200	166	FT	REMOVAL MISC.:CPP DUCT BANK	5D
								2					2	611	99690	2	EACH	MANHOLE, MISC.: REPLACE EXISTING CASTINGS	47
								210					210	625	25803	210	FT	CONDUIT, CONCRETE ENCASED, AS PER PLAN (5" PVC)	5C
								2,862					2,862	625	25920	2,862	FT	CONDUIT, MISC.: CPP BRIDGE MOUNTED CONDUITS AND INCIDENTALS	5C
								210					210	625	29200	210	FT	TRENCH, 48" DEEP	
																		TRAFFIC CONTROL	
					26							26		630	03100	26	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			1									1		630	79000	1	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	
			7.5									7.5		630	80100	7.5	SF	SIGN, FLAT SHEET	
					1							1		630	84900	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
					9							9		630	85100	9	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
					3							3		630	86002	3	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
		0.5										0.5		642	00300	0.5	MILE	CENTER LINE, TYPE 1	
		0.08										0.08		644	00104	0.08	MILE	EDGE LINE, 6"	
		0.26										0.26		644	00204	0.26	MILE	LANE LINE, 6"	
		1,100										1,100		644	00404	1,100	FT	CHANNELIZING LINE, 12"	
		250										250		644	00720	250	FT	CHEVRON MARKING	
		180										180		644	01510	180	FT	DOTTED LINE, 6"	
					0.3							0.3		646	10000	0.3	MILE	EDGE LINE, 4"	
					0.18							0.18		646	10200	0.18	MILE	CENTER LINE	
					55							55		646	10400	55	FT	STOP LINE	
					261							261		646	10500	261	FT	CROSSWALK LINE	
					229							229		646	10600	229	FT	TRANSVERSE/DIAGONAL LINE	
					200							200		646	20500	200	FT	DOTTED LINE	
					3							3		646	20600	3	EACH	BIKE LANE SYMBOL MARKING	
					5							5		646	20650	5	EACH	SHARED LANE MARKING	
			35									35		625	25400	35	FT	TRAFFIC SIGNALS CONDUIT, 2", 725.04	
			35									35		625	29000	35	FT	TRENCH	
			1									1		625	30706	1	EACH	PULL BOX, 725.08, 24"	
			2									2		632	05007	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	16
			1									1		632	05065	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	16
			52									52		632	30200	52	FT	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	
			52									52		632	30600	52	FT	TETHER WIRE, WITH ACCESSORIES	
			270									270		632	40600	270	FT	SIGNAL CABLE, 6 CONDUCTOR, NO. 14 AWG	
			242									242		632	40700	242	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
			1									1		632	70400	1	EACH	CONDUIT RISER, 2" DIAMETER	
			1									1		632	80700	1	EACH	SIGNAL SUPPORT, MISC.: WEATHERHEAD	
			2									2		632	89301	2	EACH	WOOD POLE, AS PER PLAN	16
			2									2		632	89400	2	EACH	DOWN GUY	

CALCULATED AA
CHECKED JEP

GENERAL SUMMARY

CUY-90-14.52

21
91

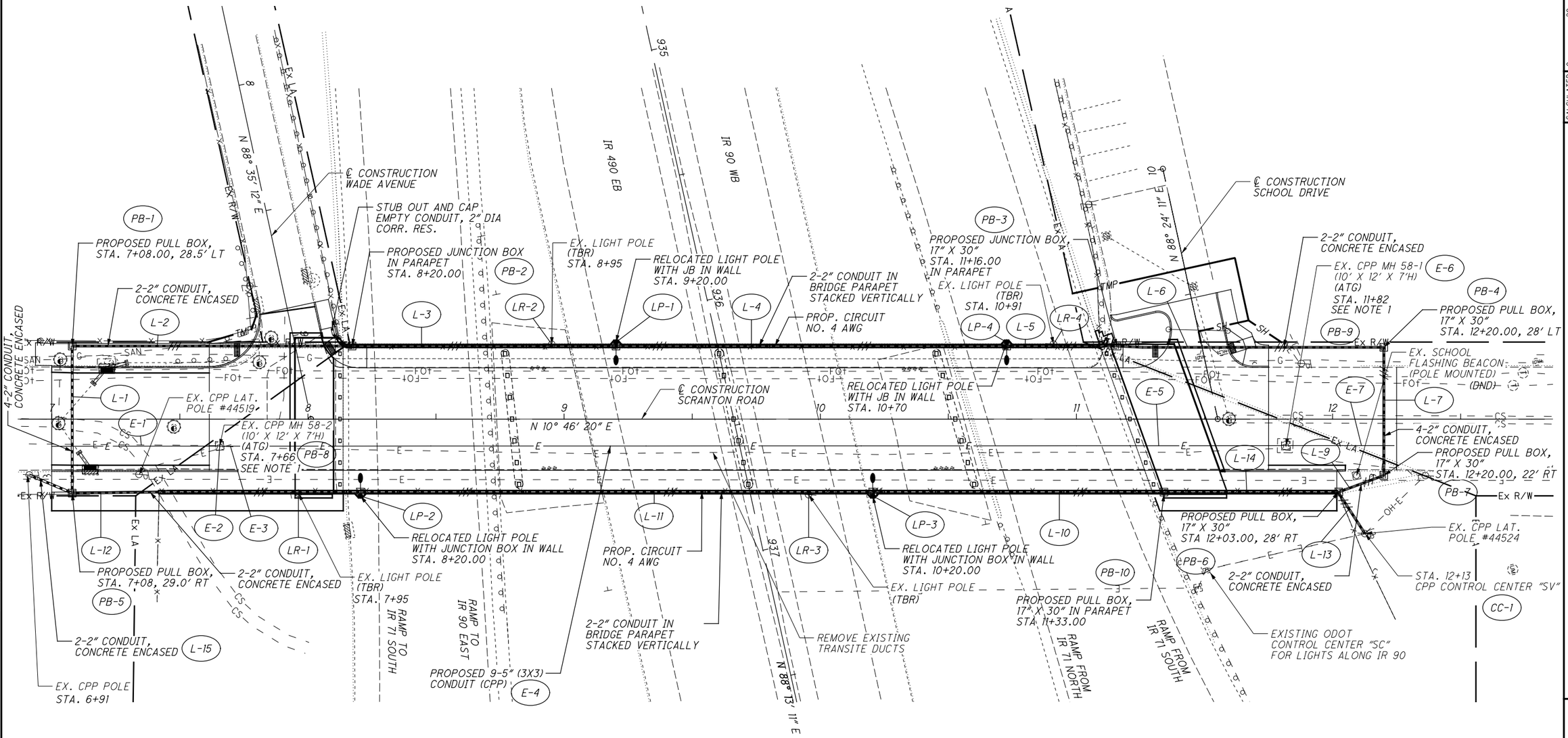
Q:\Transportation\Projects\ODOT\District 12\CUY090_1452\97390\roadway\sheets\97390GG002.dgn 2/9/2021 8:08:39 AM Aakuraju

REF NO.	SHEET NO.	STATION TO STATION			SIDE	202 REMOVAL MISC.:CPP DUCT BANK FT	625 CONNECTION, FUSED PULL APART EACH	625 LIGHT POLE ANCHOR BOLTS ON STRUCTURE EACH	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG 600 VOLT DISTRIBUTION CABLE FT	625 CONDUIT, 2", 725.05 FT	625 CONDUIT, CONCRETE ENCASED, AS PER PLAN (2") FT	625 CONDUIT, CONCRETE ENCASED, AS PER PLAN (5" PVC) FT	625 CONDUIT, MISC.:CPP BRIDGE MOUNTED CONDUITS AND INCIDENTALS FT	625 LUMINAIRE, INSTALLATION ONLY, AS PER PLAN EACH	625 TRENCH, 48" DEEP LIGHTING FT	625 TRENCH, 48" DEEP ELECTRICAL FT	625 STRUCTURE JUNCTION BOX EACH	625 STRUCTURE GROUNDING SYSTEM EACH	625 CONTROL CENTER CABINET, COMPLETE EACH	625 REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN EACH	625 PULL BOX CLEANED EACH	SPECIAL MAINTAIN EXISTING LIGHTING LUMP	625 LIGHTING, MISC.: CPP STREET LIGHTING PULL BOX EACH	632 POWER SERVICE, AS PER PLAN EACH	611 MANHOLE, MISC.: REPLACE EXISTING CASTINGS EACH
			TO																						
LP-1	47	9+20.00			LT		2	4		78					1			1	1						
LP-2	47	8+20.00			RT		2	4		78					1			1							
LP-3	47	10+20.00			RT		2	4		78					1			1							
LP-4	47	10+70.00			LT		2	4		78					1			1							
L-1	47	7+08.00		7+08.00	LT/RT							232				58									
L-2	47	7+08.00		8+20.00	LT				366			224				112									
L-3	47	8+20.00		9+20.00	LT				330		200														
L-4	47	9+20.00		10+70.00	LT				480		300														
L-5	47	10+70.00		11+16.00	LT				168		92														
L-6	47	11+16.00		12+20.00	LT				342			208				104									
L-7	47	12+20.00		12+20.00	LT/RT				180			200				50									
L-9	47	12+20.00		12+03.00	RT				90			40				20									
L-10	47	11+33.00		10+20.00	RT				369		226														
L-11	47	10+20.00		8+20.00	RT				630		400														
L-12	47	8+20.00		7+08.00	RT				369		158	68				34									
L-13	47	12+03.00		12+13.00	RT				90			40				20									
L-14	47	11+33.00		12+03.00	RT				240		140													1	
L-15	47	6+91.00		7+08.00	RT				87			38				19									
LR-1	47	7+95.00			RT																	1			
LR-2	47	8+95.00			LT																	1			
LR-3	47	9+95.00			RT																	1			
LR-4	47	10+91.00			LT																	1			
PB-1	47	7+08.00			LT		2																1		
PB-2	47	8+20.00			LT		2											1							
PB-3	47	11+16.00			LT		2											1							
PB-4	47	12+20.00			LT		2																1		
PB-5	47	7+08.00			RT		2																1		
PB-6	47	12+03.00			RT		2																1		
PB-7	47	12+20.00			RT		2																1		
PB-8	47	7+66.00			RT																			1	
PB-9	47	11+82.00			RT																			1	
PB-10	47	11+33.00			RT		2											1							
CC-1	47	12+13.00			RT															1					
		ELECTRICAL																							
E-1	47	7+00.00		7+66.00	RT	66							66				66								
E-2	47	7+66.00			RT																				1
E-3	47	7+66.00		8+10.05	RT	45							45				45								
E-4	47	8+10.05		11+27.33	RT									2862											
E-5	47	11+27.33		11+82.00	RT	55							55				55								
E-6	47	11+82.00			RT																				1
E-7	47	11+82.00		12+25.00	RT								44				44								
SUB TOTAL																417	210								
TOTALS CARRIED TO GENERAL SUMMARY						166	24	16	3741	312	1516	1050	210	2862	4	627	7	1	1	4	2	LUMP	5	1	2

CALCULATED AA CHECKED JEP

LIGHTING AND ELECTRICAL SUBMSUMMARY

CUY-90-14.52



NOTES:

1. CONTRACTOR SHALL REPLACE THE EXISTING SQUARE CASTING WITH A 36" ROUND CASTING AT THE EXISTING CPP MANHOLES LOCATED AT STATIONS 7+66 AND 11+82. PAYMENT FOR ALL MATERIALS, LABOR AND EQUIPMENT NEEDED TO REPLACE THE SQUARE CASTING WITH A CIRCULAR CASTING SHALL BE INCLUDED WITH:

   ITEM 611 - MANHOLE, MISC.: REPLACE EXISTING CASTING.

   PRIOR TO REPLACING THE CPP MANHOLE CASTINGS LOCATED AT STA. 7+66 AND STA. 11+82, THE CONTRACTOR SHALL COORDINATE WITH CPP REGARDING THE DETAILS FOR INSTALLATION OF CIRCUITS & PROPOSED CONDUITS.

2. FOR LIGHTING NOTES SEE SHEETS 4B- 4CB

3. FOR CLEVELAND PUBLIC POWER (ELECTRICAL) NOTES SEE SHEETS 5B- 5D

4. CAP 5" CONDUIT AT STA. 7+00.00 AND STA. 12+25.00.

LEGEND

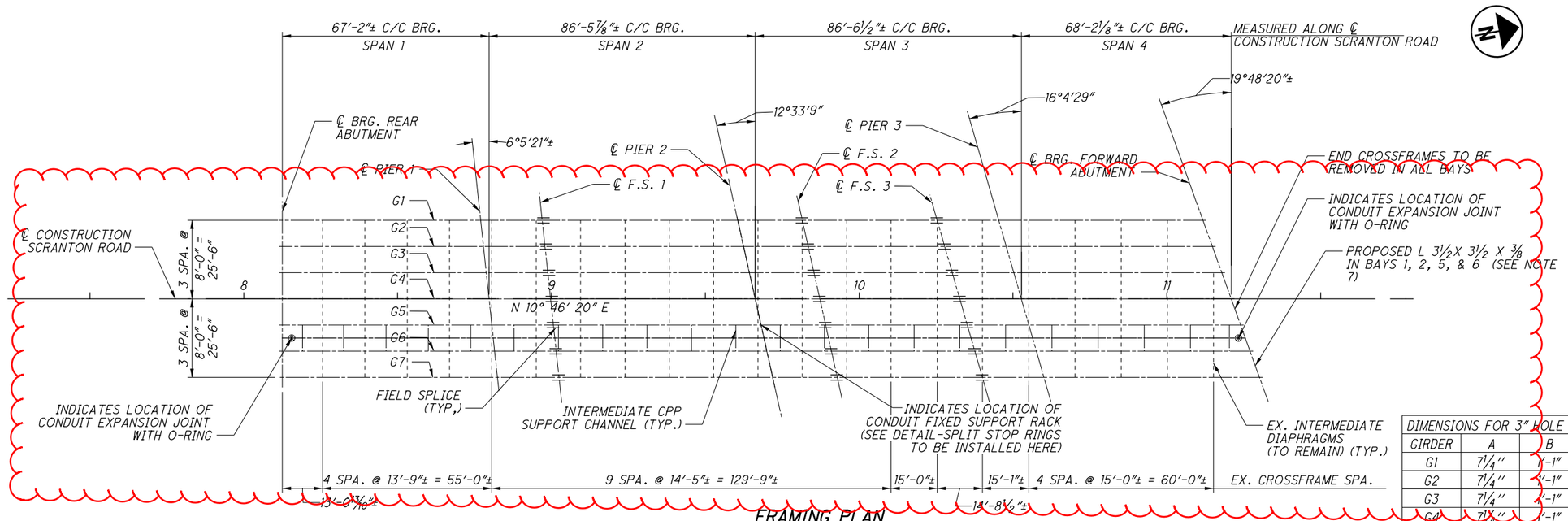
(ATG)	ADJUSTED TO GRADE
(TBR)	TO BE REMOVED
(DND)	DO NOT DISTURB

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED AA
CHECKED EAH

LIGHTING AND ELECTRICAL PLAN
STA. 7+00 TO STA. 13+00

CUY-90-14.52

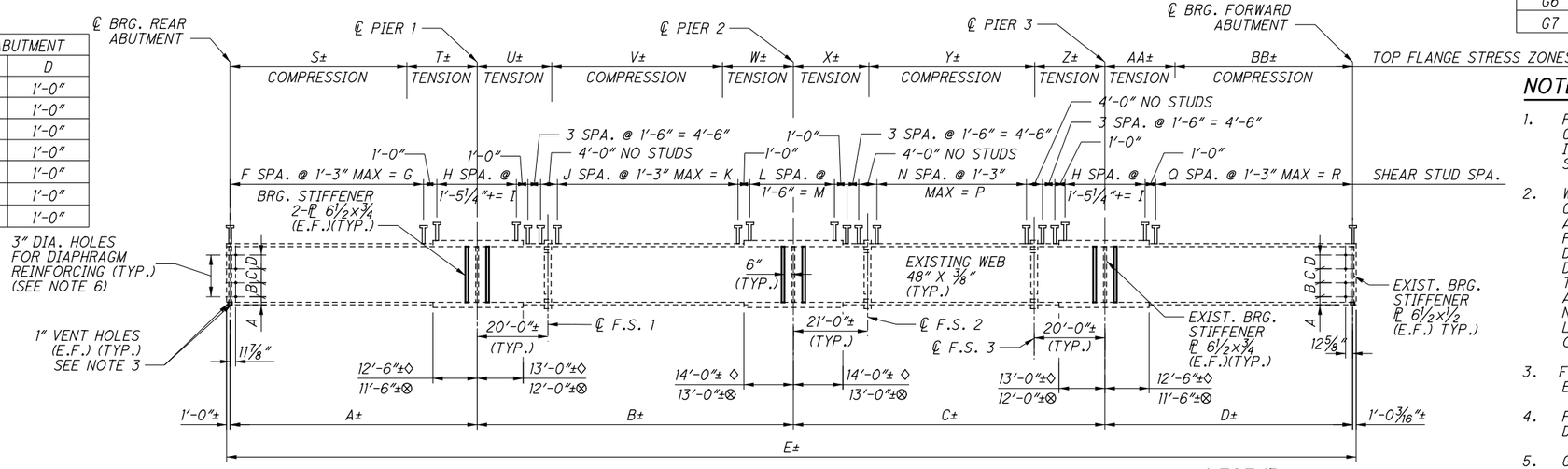


FRAMING PLAN

(EXISTING AND PROPOSED UTILITES NOT SHOWN)

DIMENSIONS FOR 3" HOLE - FORWARD ABUTMENT				
GIRDER	A	B	C	D
G1	7¼"	1'-1"	1'-0"	11"
G2	7¼"	1'-1"	1'-0"	11"
G3	7¼"	1'-1"	1'-0"	11"
G4	7¼"	1'-1"	1'-2½"	8½"
G5	5½"	1'-2½"	1'-3"	8"
G6	5½"	1'-2½"	1'-3"	8"
G7	5½"	1'-2½"	1'-3"	8"

DIMENSIONS FOR 3" HOLE - REAR ABUTMENT				
GIRDER	A	B	C	D
G1	10½"	1'-0"	1'-0"	1'-0"
G2	10½"	1'-0"	1'-0"	1'-0"
G3	10½"	1'-0"	1'-0"	1'-0"
G4	10½"	1'-0"	1'-0"	1'-0"
G5	10½"	1'-0"	1'-0"	1'-0"
G6	10½"	1'-0"	1'-0"	1'-0"
G7	10½"	1'-0"	1'-0"	1'-0"



GIRDER ELEVATION

(INTERMEDIATE STIFFENERS OMITTED FOR CLARITY)

LEGEND:

◇= G1-G5, G7

⊗= G6

GIRDER ELEVATION TABLE																									
GIRDER	A (FT)	B (FT)	C (FT)	D (FT)	E (FT)	F	G (FT)	H	I (FT)	J	K (FT)	L	M (FT)	N	P (FT)	Q	R (FT)	S (FT)	T (FT)	U (FT)	V (FT)	W (FT)	X (FT)	Y (FT)	Z (FT)	AA (FT)	BB
G1	64'-5 1/2"	83'-6 1/2"	84'-10"	66'-4 1/2"	301'-2 1/2"	42	51'-5 1/2"	17	24'-6"	38	47'-0 1/2"	18	27'-0"	32	39'-10"	43	53'-4 1/2"	46'-3"	18'-2"	19'-5 1/2"	44'-1 1/2"	20'-0"	20'-4 "	45'-9 "	18'-9"	19'-6"	46'-10 1/2"
G2	65'-4"	84'-6 1/2"	85'-4 1/2"	67'-0"	304'-3"	42	52'-4"	17	24'-6"	39	48'-0 1/2"	18	27'-0"	33	40'-4 1/2"	44	54'-0"	46'-11 1/2"	18'-5 "	19'-6"	45'-6"	19'-6"	20'-3"	46'-3"	18'-10 1/2"	19'-3"	47'-8 1/2"
G3	66'-3"	85'-6"	85'-11 1/2"	67'-7"	307'-4 "	43	53'-3"	17	24'-6"	40	49'-0"	18	27'-0"	33	40'-11 1/2"	44	54'-7"	47'-4 1/2"	18'-10 1/2"	20'-2 "	45'-2 "	20'-2 1/2"	20'-7 "	46'-4 "	19'-0 1/2"	19'-3"	48'-4 "
G4	67'-2 "	86'-6"	86'-6"	68'-2 1/2"	310'-4 1/2"	44	54'-2 "	17	24'-6"	40	50'-0"	18	27'-0"	34	41'-6"	45	55'-2 1/2"	48'-0 1/2"	19'-1"	20'-4 "	45'-9"	20'-5"	21'-3 1/2"	45'-9"	19'-5"	19'-9"	48'-5 1/2"
G5	68'-1 "	87'-6 "	87'-0 1/2"	68'-10"	313'-5 1/2"	45	55'-1 "	17	24'-6"	41	51'-0"	18	27'-0"	34	42'-0 1/2"	45	55'-10"	48'-11 1/2"	19'-1 1/2"	20'-5 1/2"	46'-6 1/2"	20'-6 "	21'-4 1/2"	45'-10 1/2"	19'-9 1/2"	19'-9"	49'-1 "
G6	68'-11 1/2"	88'-5 1/2"	87'-7 1/2"	69'-5"	316'-6"	46	56'-11 1/2"	16	23'-0"	43	52'-11 1/2"	17	25'-6"	35	42'-7 1/2"	46	57'-5"	49'-7"	19'-4 1/2"	20'-7 1/2"	47'-5 1/2"	20'-5 "	21'-5 1/2"	46'-6 1/2"	19'-7 1/2"	19'-10"	49'-7 "
G7	69'-10 1/2"	89'-5 1/2"	88'-2"	70'-0 1/2"	319'-7 "	46	56'-10 1/2"	17	24'-6"	43	52'-11 1/2"	18	27'-0"	35	43'-2"	46	57'-0 1/2"	50'-1 1/2"	19'-9 "	20'-11 1/2"	48'-5 1/2"	20'-0 1/2"	21'-4 "	47'-0"	19'-10"	19'-10 1/2"	50'-2"

NOTES:

1. FOR EXISTING INTERMEDIATE CROSSFRAME TYPE, SPLICE DESIGN AND INTERMEDIATE STIFFENER LOCATIONS, SEE ORIGINAL PLANS.
2. WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION." DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST ¼" FOR THICKNESSES UP TO ¾" OR 5/16" FOR GREATER THEN ¾" THICK.
3. FOR 1" VENT HOLE LOCATIONS, SEE BEARING DETAIL SHEET 29/38.
4. FOR PROPOSED BEARING STIFFENER DETAILS, SEE SHEET 25/38 .
5. GIRDER PAINT COLOR SHALL BE FEDERAL COLOR 595B-16440 (LIGHT GULL GRAY).
6. PAYMENT FOR FIELD DRILLED HOLES TO BE INCLUDED WITH ITEM 511-CLASS QC2 CONCRETE WITH QC/QA BRIDGE DECK.
7. FOR END CROSS-FRAME MODIFICATION DETAILS, SEE SHEET 25/38 .
8. FOR EXP. JOINT & FIXED SUPPORT RACK DETAILS, SEE SHEET 25/38 .
9. PAYMENT LIMITS FOR ITEM 514 SHALL BE AS FOLLOWS: FOR SURFACE PREPRATION AND PRIME COAT, LIMITS SHALL INCLUDE THE ENTIRE BEAM LENGTH. FOR INTERMEDIATE COAT AND FINAL COAT, LIMITS SHALL EXTEND FROM FACE TO FACE OF ABUTMENT DIAPHRAGM.

DESIGN AGENCY
PRIME AE
8415 Pulsar Place, Suite 300
Columbus, Ohio 43240

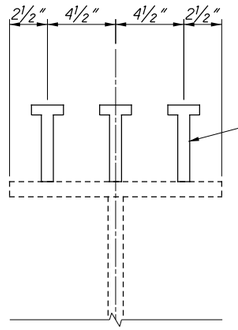
DESIGNED	DRAWN	REVIEWED	DATE
CRG	CRG	GTB	1/29/2019
CHECKED	REVISED	STRUCTURE FILE NUMBER	
EDW		1809261	

FRAMING PLAN & GIRDER ELEVATION
BRIDGE NO. CUY-090-1452
SCRANTON ROAD OVER IR 90

CUY-90-14.52
PID No. 97390

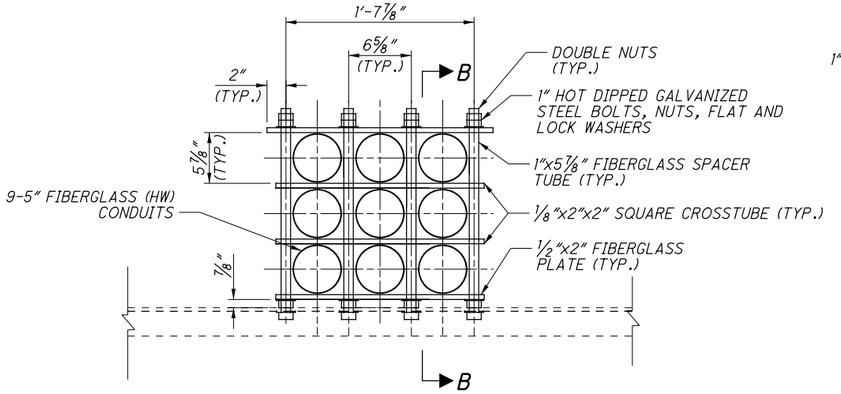
24 / 38

71 / 91

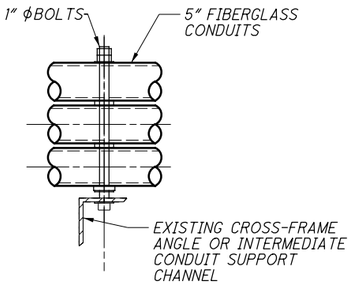


"H" DIMENSION	
G1/G7	9"
G2-G6	8"

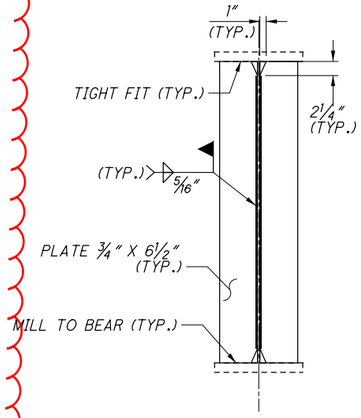
SHEAR CONNECTOR DETAIL



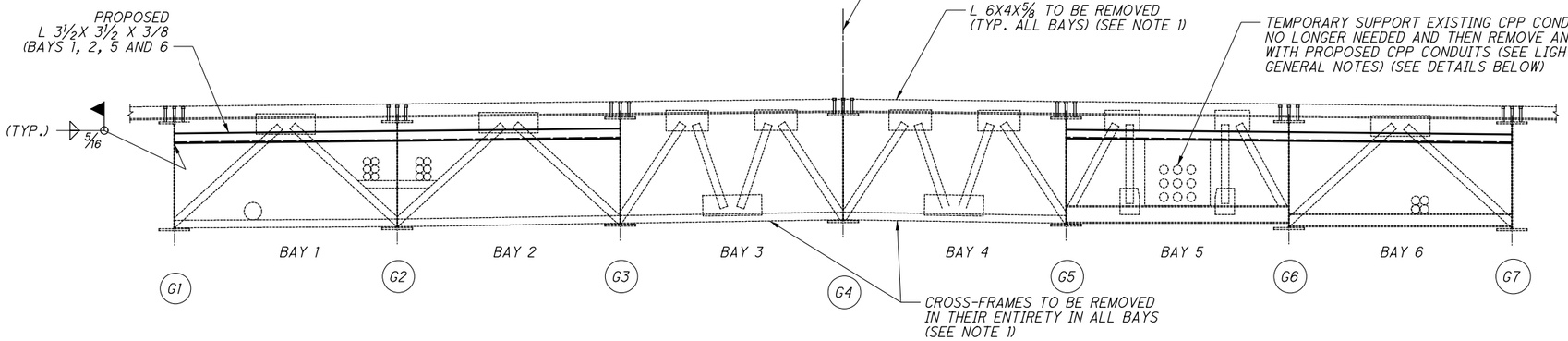
DETAIL A



DETAIL B-B



NEW PIER BEARING STIFFENERS

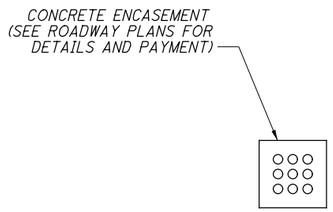


ABUTMENT CROSS-FRAME MODIFICATION

(FORWARD ABUTMENT SHOWN, REAR ABUTMENT OPPOSITE HAND)

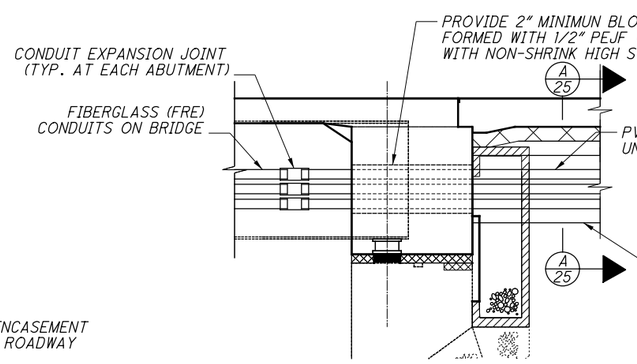
FIXED SUPPORT RACK

UTILITY CONDUIT SPLIT STOP RING (SEE NOTE 2)



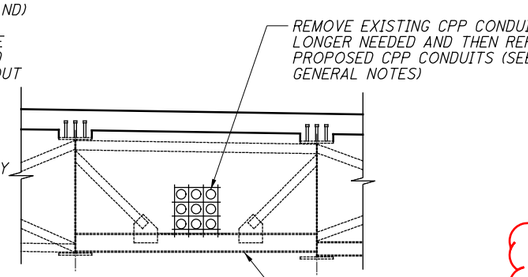
VIEW A-A

CPP CONDUITS - CONCRETE ENCASEMENT UNDER APPROACH SLABS AND ROADWAY



CPP CONDUIT - THRU ABUTMENT DETAIL

(FORWARD ABUTMENT SHOWN, REAR ABUTMENT OPPOSITE HAND)



CPP CONDUIT - EXISTING CROSS-FRAME DETAIL

(FORWARD ABUTMENT SHOWN, REAR ABUTMENT OPPOSITE HAND)

NOTES:

1. CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY SUPPORT FOR EXISTING UTILITIES AS NECESSARY PRIOR TO POURING ABUTMENT DIAPHRAGM CONCRETE.
2. CEMENT SPLIT STOP RINGS TO MAIN CONDUIT LINE.
3. GRID SUPPORT BRACKET HANGERS ARE TO BE PROVIDED AT EACH CROSS-FRAME AND INTERMEDIATE SUPPORT CHANNEL LOCATION. SEE FRAMING PLAN SHEET 24/38
4. FOR LOCATION OF CONDUIT EXP. JOINT & FIXED SUPPORT RACK SEE FRAMING PLAN SHEET 24/38

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GIRDER AND END CROSS-FRAME DETAILS
BRIDGE NO. CUY-090-1452
SCRANTON ROAD OVER IR 90

CUY-90-14.52
PID No. 97390

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