

**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 PRECAST BUILT-IN-PLACE ELECTRICAL VAULTS (MANHOLES) LOCATED AT STA. 7+66 & STA. 11+82.
- FURNISHING AND INSTALLING ELECTRICAL VAULT RACKING SYSTEMS WITHIN VAULTS (MANHOLES).
- REMOVING EXISTING UNDERGROUND DUCT BANKS, VAULTS, MANHOLES AND PULL BOXES
- 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".

O:\Transportation\Projects\ODOT\District 12\CUY090\_1452\97390\roadway\sheets\97390GN001.dgn 2/5/2021 1:57:04 PM Aokuraju

CALCULATED  
AA  
CHECKED  
EAH

CLEVELAND PUBLIC POWER NOTES

CUY-90-14.52

O:\Transportation\Projects\ODOT\District 12\CUY090\_1452\97390\roadway\sheets\97390GN001.dgn 2/5/2021 1:57:05 PM Akuraju

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

**F. MEASUREMENT**

THE NUMBER OF FEET OF CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF FEET FURNISHED AND PLACED AS MEASURED ALONG THE AXIS OF THE CONDUIT DUCT BANK LINE, INCLUDING FITTINGS. THE CONDUIT DUCT BANK LINE CONTAINS 9 CONDUITS.

**G. PAYMENT**

THE FOOTAGE MEASURED AS PROVIDED ABOVE SHALL BE PAID FOR AT THE CONTRACTOR PRICE BID PER FOOT UNDER ITEM 625 AS DESCRIBED BELOW, CLASSIFIED AS TO SIZE AND TYPE, WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR EXCAVATING AND FOR FURNISHING, HAULING, PLACING THE NINE (9) - 5" CONDUITS IN THE DUCT BANK, FITTINGS, CAPPING, PULLING LINES, SPACERS, CONCRETE, REINFORCING STEEL, SHEETING AND BRACING, BACKFILL, PLASTIC CAUTION TAPE (OR RED TINTED CONCRETE), INCIDENTAL CONCRETE, REMOVAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIAL, BREAKING AND RESTORATION OF EXISTING MANHOLE WALLS AND ALL LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. THESE ITEMS AS MEASURED AS PROVIDED ABOUT SHALL BE PAID FOR UNDER:

ITEM UNIT DESCRIPTION

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

**MAINTAIN EXISTING LIGHTING AND POWER**

THE CONTRACTOR SHALL NOT INTERRUPT EXISTING LIGHTING AND POWER EXCEPT FOR SUCH PERIODS AS THE ENGINEER MAY REQUIRE FOR THE PROPER CONSTRUCTION OF NEW FACILITIES TO BE IN PLACE AND OPERATION. FINAL CONNECTION SHALL BE MADE BY CPP AFTER ALL TESTING HAS BEEN CONDUCTED AND FACILITIES HAVE BEEN ACCEPTED BY CPP.

**PAVEMENT REPAIR**

**CONCRETE PAVEMENT:**

ALL PAVEMENT OPENINGS SHALL BE SAWED FULL DEPTH AND HAVE SMOOTH VERTICAL FACES. DOWELS SHALL BE REQUIRED.

CONCRETE REPAVING SHALL BE PERFORMED IN SUCH A MANNER THAT THE ENTIRE LANE AND/OR SLAB IN WHICH THE REPAIR AREA IS LOCATED SHALL BE RESTORED. SHOULD ANY PORTION OF THE REPAIR AREA EXTEND INTO AN ADJACENT LANE AND/OR SLAB, THAT LANE OR SLAB SHALL BE REPAVED.

**ASPHALT PAVEMENT:**

ALL PAVEMENT OPENINGS SHALL BE SAWED FULL DEPTH AND HAVE SMOOTH VERTICAL FACES. DOWELS SHALL BE REQUIRED.

ASPHALT RESURFACING SHALL BE PERFORMED IN SUCH A MANNER THAT THE ENTIRE LANE IN WHICH THE REPAIRS ARE LOCATED SHALL BE RESTORED. SHOULD ANY PORTION OF THE REPAIR AREA EXTEND INTO AN ADJACENT LANE, THAT LANE SHALL ALSO BE RESURFACED. FOR PAVEMENT WITH A WIDTH OF 40 FEET OR LESS, A LANE SHALL BE CONSIDERED 1/2 THE PAVEMENT WIDTH.

EXTEND OVER CUT IN LONGITUDINAL DIRECTION 2 FEET UNTO UNDISTURBED SUBGRADE.

**ITEM 202 - REMOVAL MISC.: CPP DUCT BANK**

THE CONTRACTOR SHALL REMOVE ALL CPP CONDUIT THAT RUNS THRU THE MANHOLES LOCATED AT STA. 7+66 AND STA. 11+82 AFTER CPP HAS REMOVED THE PRIMARY DISTRIBUTION CABLE FROM THESE CONDUITS. PAYMENT FOR ALL THE LABOR, EQUIPMENT AND MATERIALS NEEDED TO PERFORM THIS WORK HAS BEEN INCLUDED WITH ITEM 202-REMOVAL MISC.: CPP DUCT BANK AND CARRIED TO THE GENERAL SUMMARY.

ITEM 202 - REMOVAL MISC.: CPP CONDUIT BANK 166 FT

**CPP - POWER CABLE INSTALLATION**

AFTER THE CONTRACTOR HAS INSTALLED THE PVC DUCTS IN THE PAVEMENT AND APPROACH SLABS AND FRE DUCTS ACROSS THE BRIDGE, CPP WILL BE INSTALLING ELECTRICAL CABLE IN THE NEW DUCTS AND SPLICING INTO ITS EXISTING FACILITIES. CONTRACTOR SHALL GIVE CPP THREE WEEKS NOTICE PRIOR TO ALLOWING CPP ON SITE TO COMMENCE THIS WORK. ALL DUCTS MUST BE IN PLACE BEFORE CPP CAN BEGIN THEIR WORK. CPP SHALL THEN BE ALLOWED A MINIMUM OF THREE CALENDAR WEEKS TO COMPLETE INSTALLATION AND SPLICING. CPP MAY NOT ALWAYS NEED EXCLUSIVE ACCESS TO THE SITE DURING THIS WORK AND THE CONTRACTOR AND CPP SHALL COORDINATE ACCORDINGLY TO FACILITATE COMPLETION OF THE PROPOSED WORK.

**CPP - POWER CABLE REMOVAL**

CPP SHALL REMOVE THE EXISTING ELECTRICAL CABLE IN THE CONDUIT THAT RUNS THRU THE CPP MANHOLES LOCATED AT STA. 7+66 AND STA. 11+82. CONTRACTOR SHALL GIVE CPP THREE WEEKS NOTICE PRIOR TO ALLOWING CPP ON SITE TO COMMENCE THIS WORK. CPP SHALL BE ALLOWED A MINIMUM OF ONE CALENDAR WEEK TO COMPLETE REMOVING THE CABLES. CPP MAY NOT ALWAYS NEED EXCLUSIVE ACCESS TO THE SITE DURING THIS WORK AND THE CONTRACTOR AND CPP SHALL COORDINATE ACCORDINGLY TO FACILITATE COMPLETION OF THE PROPOSED WORK.

CALCULATED  
AA  
CHECKED  
EAH

CLEVELAND PUBLIC POWER NOTES

CUY-90-14.52

5D  
91

O:\Transportation\Projects\ODOT\District 12\CUY090\_1452\97390\roadway\sheets\97390GG001.dgn 2/11/2021 3:24:34 PM Akuraju

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
5	5A	5D	6			24	25	26	35	36		01/BRO/BR	EXT	TOTAL				
ROADWAY																		
LS												LS	201	11000	LS	CLEARING AND GRUBBING		
						406						406	202	23000	406	SY	PAVEMENT REMOVED	
						1,115						1,115	202	30000	1,115	SF	WALK REMOVED	
						194						194	202	32000	194	FT	CURB REMOVED	
						27						27	202	35100	27	FT	PIPE REMOVED, 24" AND UNDER	
						54						54	202	38000	54	FT	GUARDRAIL REMOVED	
						1						1	202	58100	1	EACH	CATCH BASIN REMOVED	
						1						1	202	58200	1	EACH	INLET REMOVED	
	50											50	SPECIAL	20270110	50	FT	PIPE CLEANOUT, 24" AND UNDER	
	50											50	SPECIAL	20270120	50	FT	PIPE CLEANOUT, 27" TO 48"	
	50											50	SPECIAL	20270130	50	FT	PIPE CLEANOUT OVER 48"	
						29						29	202	75200	29	FT	FENCE REMOVED FOR REUSE	
						2						2	202	75254	2	EACH	GATE REMOVED FOR REUSE	
						6						6	202	98100	6	EACH	REMOVAL MISC.: CONCRETE BOLLARD	
									525	31		556	203	10000	556	CY	EXCAVATION	
									3			3	203	20000	3	CY	EMBANKMENT	
								740				740	204	10000	740	SY	SUBGRADE COMPACTION	
1												1	204	45000	1	HOUR	PROOF ROLLING	
						1						1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
						1						1	606	26551	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T, AS PER PLAN	
						29						29	607	23100	29	FT	FENCE REBUILT	
						2						2	607	6111	2	EACH	GATE REBUILT, AS PER PLAN	
						1,114						1,114	608	11000	1,114	SF	4-1/2" CONCRETE WALK	
						279						279	608	52000	279	SF	CURB RAMP	
	1,000											1,000	SPECIAL	69099400	1,000	LB	MISCELLANEOUS METAL	
		1										1	SPECIAL	69098000	1	EACH	UTILITY TEST HOLE	
EROSION CONTROL																		
1												1	659	00100	1	EACH	SOIL ANALYSIS TEST	
3												3	659	00300	3	CY	TOPSOIL	
26												26	659	10000	26	SY	SEEDING AND MULCHING	
0.01												0.01	659	20000	0.01	TON	COMMERCIAL FERTILIZER	
0.01												0.01	659	31000	0.01	ACRE	LIME	
1												1	659	35000	1	MGAL	WATER	
												5,000	832	30000	5,000	EACH	EROSION CONTROL	
DRAINAGE																		
	50						95					145	605	13300	145	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
							37					37	605	14000	37	FT	6" BASE PIPE UNDERDRAINS	
							74					74	611	00510	74	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	50											50	611	01500	50	FT	6" CONDUIT, TYPE F	
							24					24	611	04400	24	FT	12" CONDUIT, TYPE B	
							2					2	611	98690	2	EACH	CATCH BASIN, MISC.:C.O.C. TWIN BASIN - CB-3	
						6						6	611	99654	6	EACH	MANHOLE ADJUSTED TO GRADE	
	5											5	611	99710	5	EACH	PRECAST REINFORCED CONCRETE OUTLET	
PAVEMENT																		
							293					293	252	01500	293	FT	FULL DEPTH PAVEMENT SAWING	
							463					463	254	01000	463	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.5" THICK)	
							124					124	304	20000	124	CY	AGGREGATE BASE	
			10				66					76	407	10000	76	GAL	TACK COAT	
							24					24	407	13900	24	GAL	TACK COAT, 702.13	
			50				34					84	441	50000	84	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
							20					20	441	50300	20	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
							144					144	SPECIAL	45131000	144	FT	PRESSURE RELIEF JOINT, TYPE B	
							400					400	452	11010	400	SY	7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP	
						329						329	609	98000	329	FT	CURB, MISC.: CITY OF CLEVELAND CAST-IN-PLACE CONCRETE CURB	
WATER WORK																		
						1						1	638	10400	1	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
						4						4	638	10800	4	EACH	VALVE BOX ADJUSTED TO GRADE	

**GENERAL SUMMARY**

**CUY-90-14.52**

O:\Transportation\Projects\ODOT\District 12\CUY090\_1452\97390\roadway\sheets\97390GG002.dgn 2/5/2021 1:57:13 PM Aokuraju

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						
								2			2		202	75801	2	EACH	LIGHTING	
								24			24		625	00450	24	EACH	DISCONNECT EXISTING CIRCUIT, AS PER PLAN CONNECTION, FUSED PULL APART	45A
								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	
								2			2		625	31506	2	EACH	PULL BOX REMOVED AND REPLACED	
								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			5			LS		SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	45
								5			5		625	98000	5	EACH	LIGHTING, MISC.: CPP STREET LIGHTING PULL BOX	45
								166			166		202	98200	166	FT	ELECTRICAL	
								2			2		611	99690	2	EACH	REMOVAL MISC.:CPP DUCT BANK	5D
								210			210		625	25803	210	FT	MANHOLE, MISC.: REPLACE EXISTING CASTINGS	47
								2,862			2,862		625	25920	2,862	FT	CONDUIT, CONCRETE ENCASED, AS PER PLAN (5" PVC)	5C
								210			210		625	29200	210	FT	CONDUIT, MISC.: CPP BRIDGE MOUNTED CONDUITS AND INCIDENTALS	5C
								210			210		625	29200	210	FT	TRENCH, 48" DEEP	
								26			26		630	03100	26	FT	TRAFFIC CONTROL	
								1			1		630	79000	1	EACH	GROUND MOUNTED SUPPORT, NO. 3 POST	
								7.5			7.5		630	80100	7.5	SF	SIGN HANGER ASSEMBLY, SPAN WIRE	
								1			1		630	84900	1	EACH	SIGN, FLAT SHEET	
								9			9		630	85100	9	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
								3			3		630	86002	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
								0.5			0.5		642	00300	0.5	MILE	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								0.08			0.08		644	00104	0.08	MILE	CENTER LINE, TYPE 1	
								0.26			0.26		644	00204	0.26	MILE	EDGE LINE, 6"	
								1,100			1,100		644	00404	1,100	FT	LANE LINE, 6"	
								250			250		644	00720	250	FT	CHANNELIZING LINE, 12"	
								180			180		644	01510	180	FT	CHEVRON MARKING	
								0.3			0.3		646	10000	0.3	MILE	DOTTED LINE, 6"	
								0.18			0.18		646	10200	0.18	MILE	EDGE LINE, 4"	
								55			55		646	10400	55	FT	CENTER LINE	
								261			261		646	10500	261	FT	STOP LINE	
								229			229		646	10600	229	FT	CROSSWALK LINE	
								200			200		646	20500	200	FT	TRANSVERSE/DIAGONAL LINE	
								3			3		646	20600	3	EACH	DOTTED LINE	
								5			5		646	20650	5	EACH	BIKE LANE SYMBOL MARKING	
								35			35		625	25400	35	FT	SHARED LANE MARKING	
								35			35		625	29000	35	FT	TRAFFIC SIGNALS	
								1			1		625	30706	1	EACH	CONDUIT, 2", 725.04	
								2			2		632	05007	2	EACH	TRENCH	
								1			1		632	05065	1	EACH	PULL BOX, 725.08, 24"	
								52			52		632	30200	52	FT	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	16
								52			52		632	30600	52	FT	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	16
								270			270		632	40600	270	FT	MESSANGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	
								242			242		632	40700	242	FT	TETHER WIRE, WITH ACCESSORIES	
								1			1		632	70400	1	EACH	SIGNAL CABLE, 6 CONDUCTOR, NO. 14 AWG	
								1			1		632	80700	1	EACH	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
								2			2		632	89301	2	EACH	CONDUIT RISER, 2" DIAMETER	
								2			2		632	89400	2	EACH	SIGNAL SUPPORT, MISC.: WEATHERHEAD	
								2			2		632	89400	2	EACH	WOOD POLE, AS PER PLAN	16
								2			2		632	89400	2	EACH	DOWN GUY	

GENERAL SUMMARY

CUY-90-14.52

21  
91



o:\Transportation\Projects\ODOT\District 12\CUY090\_1452\97390\roadway\sheets\97390GS001.dgn 2/11/2021 3:24:48 PM Aakuraju

REF NO.	SHEET NO.	STATION TO STATION		202	202	202	202	202	202	202	202	202	606	606	607	607	608	608		609	611	638	638		
				PAVEMENT REMOVED SY	WALK REMOVED SF	CURB REMOVED FT	PIPE REMOVED, 24" AND UNDER FT	GUARDRAIL REMOVED FT	CATCH BASIN REMOVED EACH	INLET REMOVED EACH	FENCE REMOVED FOR REUSE FT	GATE REMOVED FOR REUSE EACH	REMOVAL MISC.:CONCRETE BOLLARD EACH	ANCHOR ASSEMBLY, MGS TYPE T EACH	ANCHOR ASSEMBLY, MGS TYPE T, AS PER PLAN EACH	FENCE REBUILT FT	GATE REBUILT, AS PER PLAN EACH	4-1/2" CONCRETE WALK SF	CURB RAMP SF		CURB, MISC.:CITY OF CLEVELAND CAST-IN-PLACE CONCRETE CURB FT	MANHOLE ADJUSTED TO GRADE EACH	VALVE BOX ADJUSTED TO GRADE EACH	FIRE HYDRANT ADJUSTED TO GRADE EACH	
R-1	27	7+00.00	TO	8+05.18																					
R-2	27	6+93.64		7+81.61	175.11																				
R-3	27	7+00.00		7+41.56		481.25																			
R-4	27	8+02.87		8+10.60		337.54																			
R-5	27	7+00.00		7+81.50			97.15																		
R-6	27	7+00.00		7+41.43			41.43																		
R-7	27	7+10.69		7+15.29				8		1															
R-8	27	7+16.28		7+23.26			10.59			1															
R-9	27	7+23.26		7+29.26			8																		
R-10	27	7+44.34		7+69.81						25.51															
R-11	27	8+07.97		8+11.55			15.9																		
R-12	27	8+07.97		8+10.60						12.84															
R-13	27	7+44.32		7+44.32								1													
D-1	27	7+02.66		7+02.66																					
D-2	27	7+03.36		7+03.36																					
D-3	27	7+47.68		7+47.68																					
D-4	27	7+81.05		7+81.05																					
D-5	27	7+85.72		7+85.72																					
W-1	27	7+23.71		7+23.71																					
W-2	27	7+37.37		7+37.37																					
R-14	28	11+11.91		12+05.00	230.47																				
R-15	28	11+55.03		11+75.00		229.7																			
R-16	28	11+11.68		11+13.70			10.22																		
R-17	28	11+54.54		11+75.00			41.5																		
R-18	28	12+01.65		12+05.00			3.38																		
R-19	28	11+10.54		11+11.21				12.5																	
R-20	28	11+08.37		11+09.04						16															
R-21	28	11+35.40		11+59.59						2															
R-22	28	11+16.72		11+34.06								4													
R-23	28	11+31.16		11+31.16								1													
D-6	28	11+59.55		11+59.55																					
W-3	28	11+45.14		11+45.14																					
W-4	28	11+72.09		11+72.09																					
W-5	28	11+25.11		11+25.11																					
GR-1	29	8+07.97		8+11.55									1												
GR-2	29	11+10.54		11+11.21									1												
F-1	29	8+07.97		8+10.60											13										
F-2	29	11+08.37		11+09.04											16										
F-3	29	11+35.40		11+59.59												2									
SW-1	29	6+93.64		7+78.55													608.1	112.5							
SW-2	29	7+00.00		7+41.80													325.99								
SW-3	29	8+02.87		8+11.84													57.69	26.62							
SW-4	29	11+55.26		11+75.00													121.57	139.3							
C-1	29	7+00.00		7+81.50																		93.94			
C-2	29	7+00.00		7+95.05																		95.05			
C-3	29	8+02.38		8+05.39																		14.23			
C-4	29	11+13.70		11+36.35																		34.52			
C-5	29	11+54.54		11+75.00																		41.5			
C-6	29	11+55.78		12+05.00																		49.22			
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					406	1115	194	27	54	1	1	29	2	6	1	1	29	2	1114	279		329	6	4	1

**ROADWAY SUBSUMMARY**

**CUY - 90 - 14.52**

CALCULATED  
 AA  
 CHECKED  
 JEP

o:\Transportation\Projects\00DOT\District 12\CUY090\_1452\97390\roadway\sheet\97390GS006.dgn 2/5/2021 1:57:20 PM Aakuraju

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

LIGHTING AND ELECTRICAL SUBSUMMARY

CUY-90-14.52

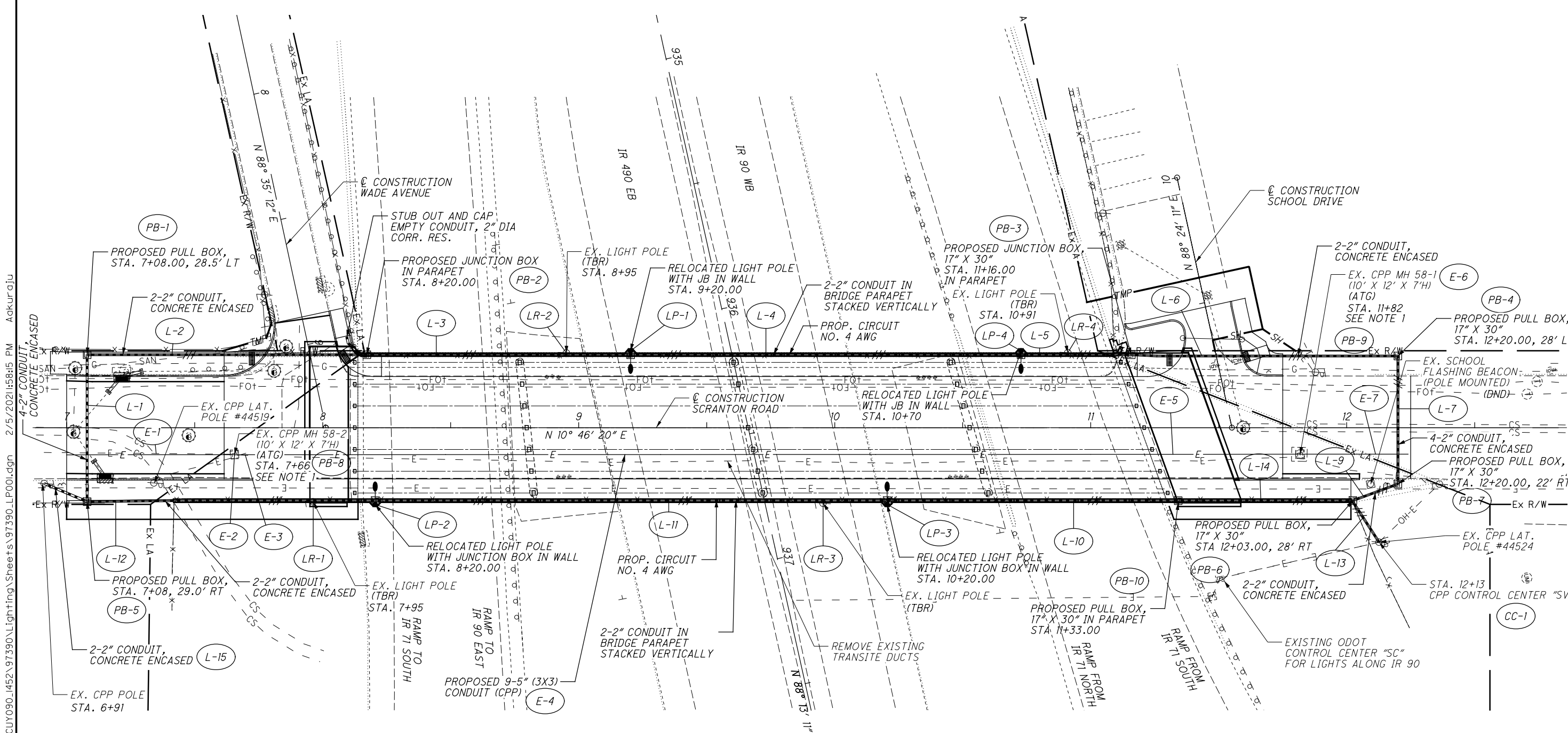
CALCULATED  
 AA  
 CHECKED  
 JEP



CALCULATED AA  
CHECKED EAH

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

CUY-90-14.52



NOTES:

- 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 CIRULAR CASTING SHALL BE INCLUDED WITH:  
  
ITEM 611 - MANHOLE, MISC.: REPLACE EXISTING CASTING.  
  
PRIOR TO FABRICATING AND REPLACING THE CPP MANHOLES LOCATED AT STA. 7+66 AND STA. 11+82, THE CONTRACTOR SHALL COORDINATE WITH CPP REGARDING THE DETAILS FOR INSTALLATION OF CIRCUITS AND RACKING SYSTEMS.
- FOR LIGHTING NOTES SEE SHEETS 45- 45B
- FOR CLEVELAND PUBLIC POWER (ELECTRICAL) NOTES SEE SHEETS 5B- 5D
- 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

O:\Transportation\Projects\000\Disfrict 12\CUY090\_1452\97390\Lighting\Sheets\97390\_LP001.dgn 2/5/2021 4:58:15 PM Akkuraju



O:\Transportation\Projects\00DOT\District 12\CUY090\_1452\97390\_structures\CUY090\_1452\001.dgn 2/5/2021 1:59:53 PM Aakuraju

CUY-090-1452 ESTIMATED QUANTITIES

MADE BY: CCJ  
DATE: 01/24/19

CHECKED BY: EDW  
DATE: 01/25/19

ITEM	ITEM EXT.	TOTAL	UNITS	DESCRIPTION	CUY-090-1452				SHT. REF.
					ABUTS.	PIERS	SUPER.	GENERAL	
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	3
202	22901	254	SQ YD	APPROACH SLAB REMOVED, AS PER PLAN				254	3
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING				LUMP	
503	21100	82	CU YD	UNCLASSIFIED EXCAVATION	82				
509	10000	218028	LB	EPOXY COATED REINFORCING STEEL	17462	3603	196963		
510	10000	616	EACH	DOWEL HOLES WITH NON-SHRINK, NONMETALLIC GROUT	402	214			
511	33501	4	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	4				3
511	34446	798	CU YD	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			798		
511	34450	70	CU YD	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			70		
511	42510	23	CU YD	CLASS QC1 CONCRETE, PIER CAP		23			
511	44110	37	CU YD	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	37				
511	53012	35	CU YD	CLASS QC2 CONCRETE, MISC.: PARAPET AND SIDEWALK WITH QC/QA				35	
512	10050	902	SQ YD	SEALING OF CONCRETE SURFACES (NON-EPOXY)				902	
512	10100	1873	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	685	475	713		
512	10300	74	SQ YD	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN			74		
512	10600	19	FT	CONCRETE REPAIR BY EPOXY INJECTION	19				
512	33000	4	SQ YD	TYPE 2 WATERPROOFING	4				
512	74000	1044	SQ YD	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	617	427			
513	10200	6200	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			6200		
513	20000	4905	EACH	WELDED STUD SHEAR CONNECTORS			4905		
514	00050	30700	SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			30700		
514	00056	30700	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			30700		
514	00060	30400	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			30400		
514	00066	30400	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			30400		
514	00504	36	MN HR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			36		
514	10000	15	EACH	FINAL INSPECTION REPAIR			15		
516	10010	158	FT	ARMORLESS PREFORMED JOINT SEAL				158	
516	13200	21	SQ FT	1/2" PREFORMED EXPANSION JOINT FILLER	21				
516	13600	31	SQ FT	1" PREFORMED EXPANSION JOINT FILLER				31	
516	13900	180	SQ FT	2" PREFORMED EXPANSION JOINT FILLER	180				
516	14020	149	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	149				
516	43300	1	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES ONLY (12"x12"x3.70") (NEOPRENE)	1				
516	44200	14	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (12"x18"x3.70") AND LOAD PLATE (13"x19"x1.50") (NEOPRENE)	14				
516	44200	21	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (15"x20"x3.25") AND LOAD PLATE (16"x21"x1.50") (NEOPRENE)		21			
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LUMP	3
518	21200	110	CU YD	POROUS BACKFILL WITH GEOTEXTILE FABRIC	110				
519	11101	774	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN	774				3
526	10010	99	SQ YD	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=12")				99	
526	25010	163	SQ YD	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")				163	
526	90031	129	FT	TYPE C INSTALLATION, AS PER PLAN				129	
530	13000	1524	SQ FT	SPECIAL - FORM LINER			1252	272	4
607	39901	755	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN			134	621	4



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

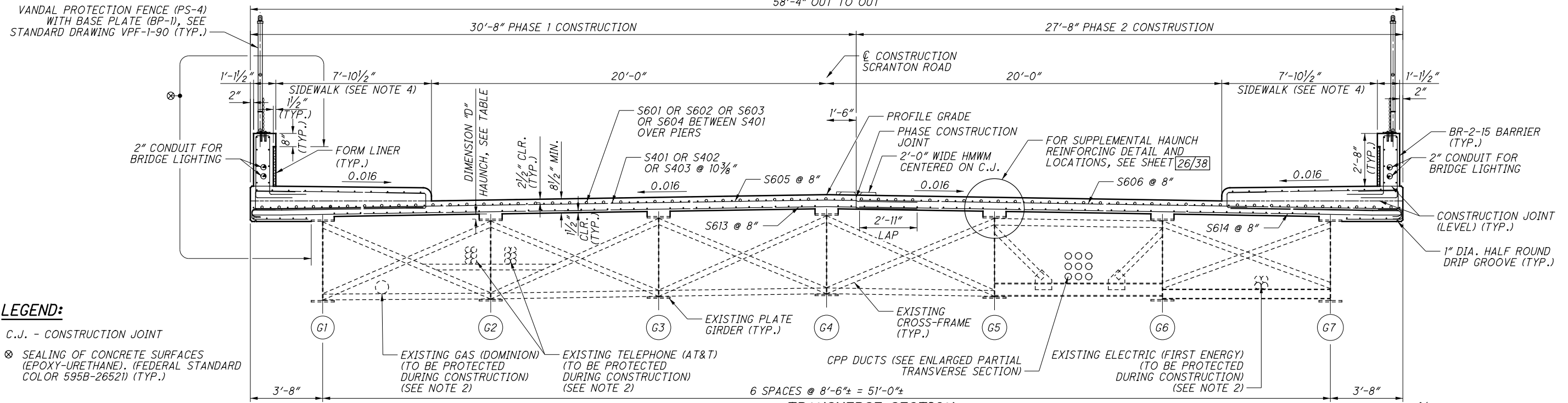
**ESTIMATED QUANTITIES**  
BRIDGE NO. CUY-090-1452  
SCRANTON ROAD OVER I-90

**CUY-90-14.52**  
PID No. 97390

5 / 38  
52 / 91

**NOTES:**  
1. TOTALS CARRIED TO GENERAL SUMMARY SHEET

O:\Transportation\Projects\ODOT\District 12\CUY090\_1452\97390\_structures\CUY090\_1452\CSheets\090\_1452\CT5001.dgn 2/5/2021 2:00:04 PM Aakuraju

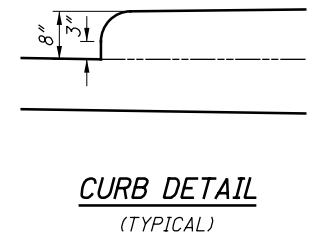


**LEGEND:**

C.J. - CONSTRUCTION JOINT

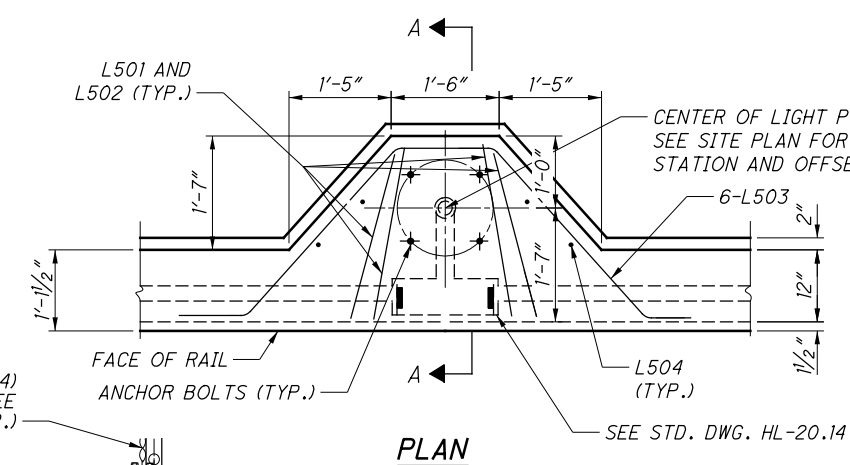
⊗ SEALING OF CONCRETE SURFACES (EPOXY-URETHANE). (FEDERAL STANDARD COLOR 595B-2652I) (TYP.)

DIMENSION "D" TABLE - HAUNCH THICKNESS @ C. GIRDER					
GIRDER	R.A.	P1	P2	P3	F.A.
G1	3 9/16"	3 1/16"	3 1/16"	4 1/4"	5 1/16"
G2	2 1/16"	2 9/16"	3 1/16"	3 1/16"	3 1/16"
G3	2 1/16"	3 1/16"	3 1/16"	3 1/2"	3 1/16"
G4	2 3/4"	3"	3 3/16"	3 5/8"	3"
G5	3 1/4"	3 1/4"	3"	3 7/16"	3 3/16"
G6	2 13/16"	2 1/16"	2 3/16"	3 3/16"	3 3/8"
G7	4 9/16"	4 1/8"	4"	4 1/4"	4 3/8"

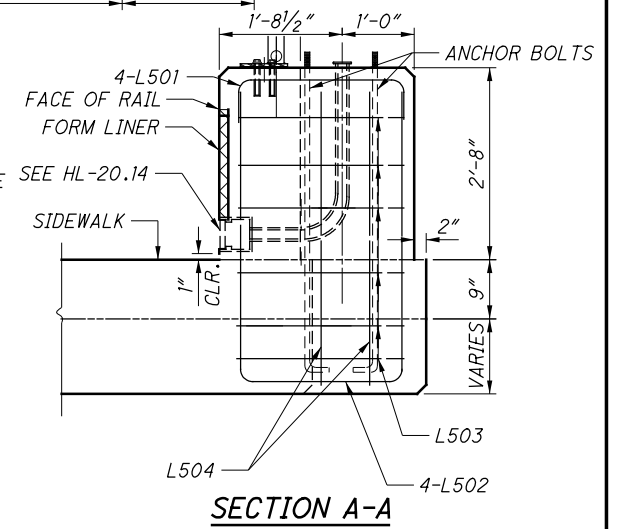


VANDAL PROTECTION FENCE (PS-4) WITH BASE PLATE (BP-1), SEE STANDARD DRAWING VPF-1-90 (TYP.)

**TRANSVERSE SECTION**



**PLAN**



**SECTION A-A**

**LIGHT POLE PILASTER DETAILS**

FOR MORE DETAILS, SEE STD. DWG. HL-20.14 (4 REQUIRED)

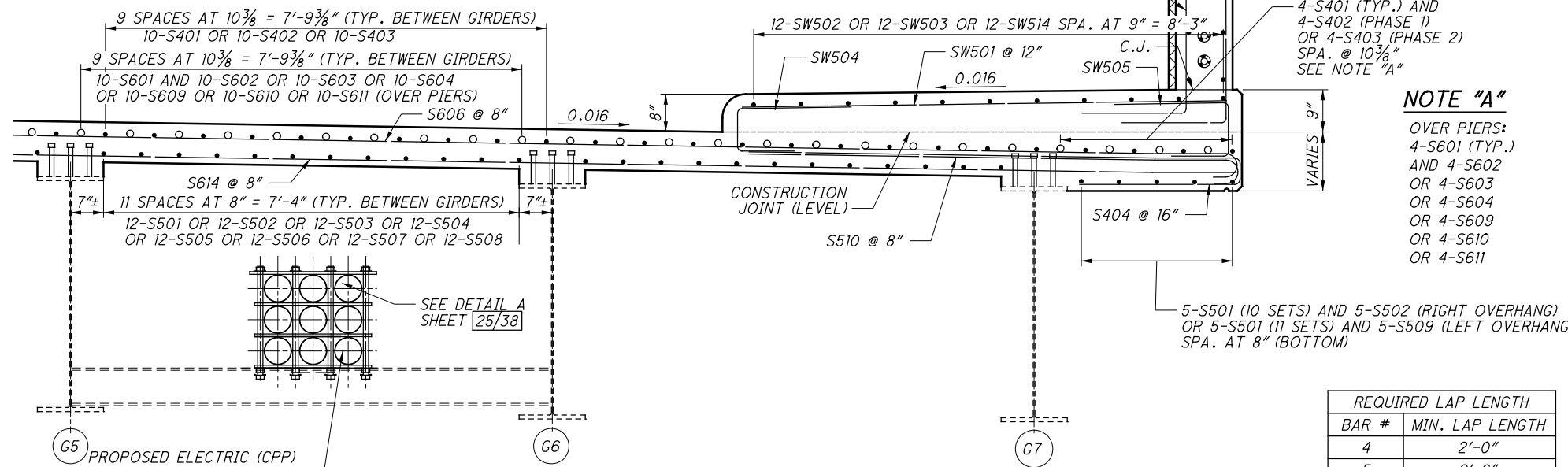
**NOTES:**

- DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH GIRDER HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 2 INCHES AND A CONSTANT HAUNCH WIDTH OF EACH GIRDER FLANGE. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE.
- UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION. SEE NOTE FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN ON SHEET [3/38].
- SIDEWALK AND RAILING AREA WITH FORM LINER SHALL BE SEALED WITH NON-EPOXY SEALER.
- THE SIDEWALK CONCRETE IS INCLUDED WITH ITEM 511 CLASS QC2 CONCRETE WITH QC/OA, BRIDGE DECK FOR PAYMENT.
- FOR ADDITIONAL STRUCTURE CONDUIT DETAILS, SEE STD. DWG. HL 30.32.

**NOTE "A"**

OVER PIERS:  
 4-S601 (TYP.) AND 4-S602 OR 4-S603 (PHASE 1) OR 4-S403 (PHASE 2) SPA. @ 10 3/8" SEE NOTE "A"

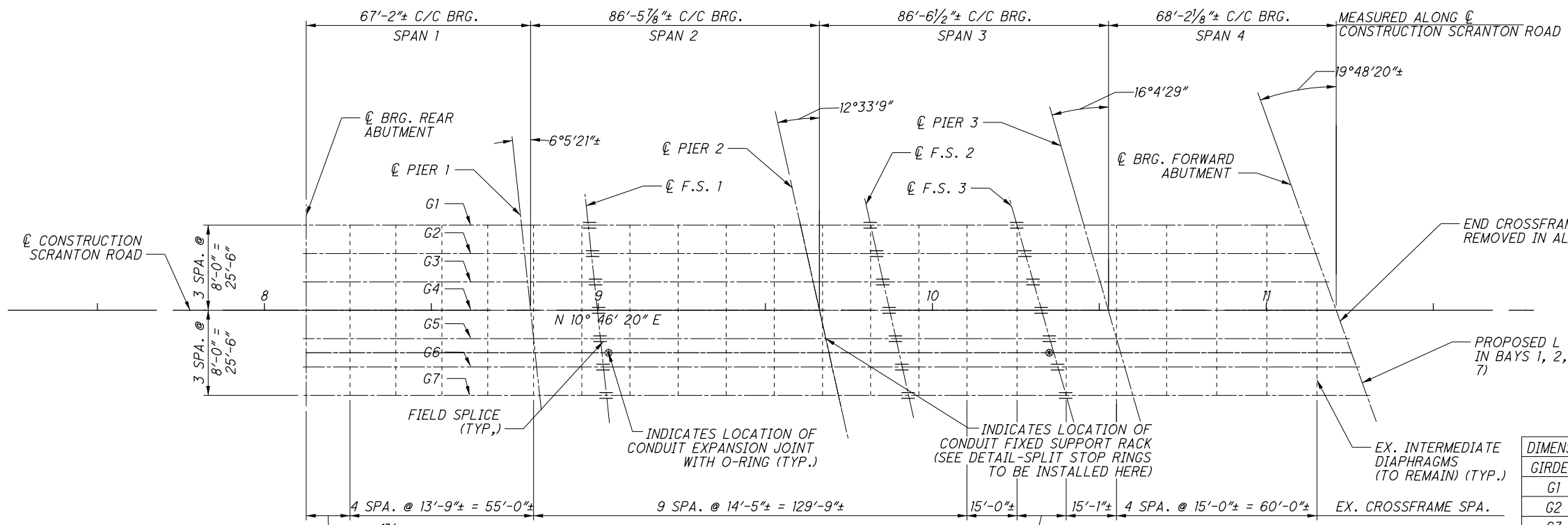
REQUIRED LAP LENGTH	
BAR #	MIN. LAP LENGTH
4	2'-0"
5	2'-6"
6	2'-11"



**ENLARGED PARTIAL TRANSVERSE SECTION**  
(CROSSFRAMES AND UTILITIES NOT SHOWN)

**PRIME A/E/C**  
 8415 Pulaski Place, Suite 300  
 Columbus, Ohio 43240  
 DESIGN AGENCY  
 DATE 1/29/2019  
 REVIEWED GTB 1/29/2019  
 DRAWN AMT  
 CHECKED CCJ  
 STRUCTURE FILE NUMBER 1809261  
**TRANSVERSE SECTION**  
 BRIDGE NO. CUY-090-1452  
 SCRANTON ROAD OVER I.R. 90  
**CUY-90-14.52**  
 PID No. 97390  
 21/38  
 68  
 91

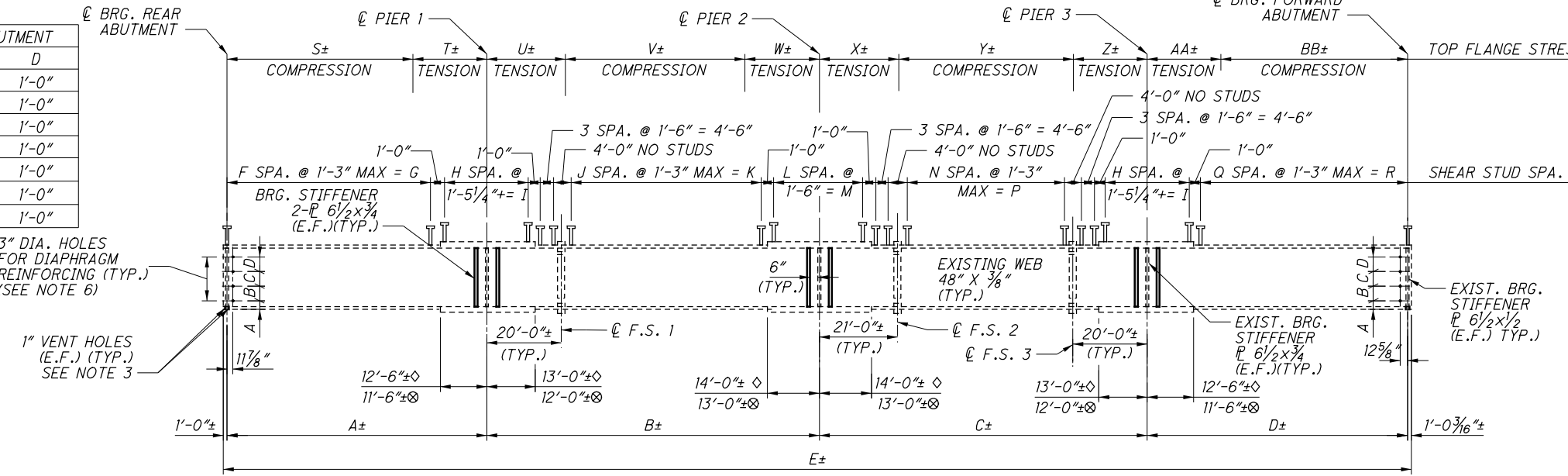
O:\Transportation\Projects\ODOT\District 12\CUY090\_1452\structures\CUY090\_1452\csheets\090\_1452CSD001.dgn 2/5/2021 3:48:33 PM Aakuraju



**FRAMING PLAN**  
(EXISTING AND PROPOSED UTILITES NOT SHOWN)

GIRDER	A	B	C	D
G1	7 1/4"	1'-1"	1'-0"	11"
G2	7 1/4"	1'-1"	1'-0"	11"
G3	7 1/4"	1'-1"	1'-0"	11"
G4	7 1/4"	1'-1"	1'-2 1/2"	8 1/2"
G5	5 1/2"	1'-2 1/2"	1'-3"	8"
G6	5 1/2"	1'-2 1/2"	1'-3"	8"
G7	5 1/2"	1'-2 1/2"	1'-3"	8"

GIRDER	A	B	C	D
G1	10 1/2"	1'-0"	1'-0"	1'-0"
G2	10 1/2"	1'-0"	1'-0"	1'-0"
G3	10 1/2"	1'-0"	1'-0"	1'-0"
G4	10 1/2"	1'-0"	1'-0"	1'-0"
G5	10 1/2"	1'-0"	1'-0"	1'-0"
G6	10 1/2"	1'-0"	1'-0"	1'-0"
G7	10 1/2"	1'-0"	1'-0"	1'-0"



**GIRDER ELEVATION**  
(INTERMEDIATE STIFFENERS OMITTED FOR CLARITY)

**LEGEND:**  
◊ = G1-G5, G7  
⊗ = G6

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:**
- FOR EXISTING INTERMEDIATE CROSSFRAME TYPE, SPLICE DESIGN AND INTERMEDIATE STIFFENER LOCATIONS, SEE ORIGINAL PLANS.
  - 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 1/4" FOR THICKNESSES UP TO 3/4" OR 3/16" FOR GREATER THAN 3/4" THICK.
  - FOR 1" VENT HOLE LOCATIONS, SEE BEARING DETAIL SHEET [29/38].
  - FOR PROPOSED BEARING STIFFENER DETAILS, SEE SHEET [25/38].
  - GIRDER PAINT COLOR SHALL BE FEDERAL COLOR 595B-16440 (LIGHT GULL GRAY).
  - PAYMENT FOR FIELD DRILLED HOLES TO BE INCLUDED WITH ITEM 511-CLASS QC2 CONCRETE WITH QC/QA BRIDGE DECK.
  - FOR END CROSS-FRAME MODIFICATION DETAILS, SEE SHEET [25/38].
  - FOR FIXED SUPPORT RACK DETAILS, SEE SHEET [25/38].
  - PAYMENT LIMITS FOR ITEM 514 SHALL BE AS FOLLOWS: FOR SURFACE PREPARATION 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

DATE

REVIEWED

DRAWN

DESIGNED

PRIME

1/29/2019

GTB

CRG

CRG

8415 Pulaski Place, Suite 300

STRUCTURE FILE NUMBER

1809261

REVISED

EDW

BRIDGE NO. CUY-090-1452

FRAMING PLAN & GIRDER ELEVATION

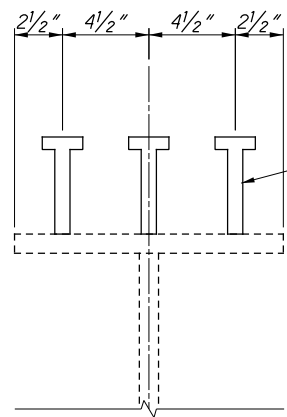
SCRANTON ROAD OVER I-90

PID No. 97390

24/38

91

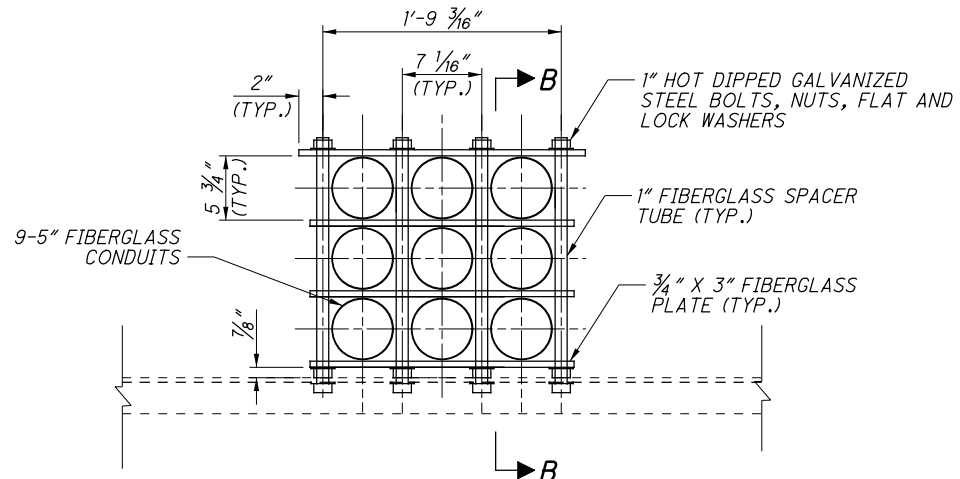
O:\Transportation\Projects\ODOT\District 12\CUY090\_1452\97390\structures\CUY090\_1452C\sheets\090\_1452CSD002.dgn 2/5/2021 2:00:26 PM Akkuruju



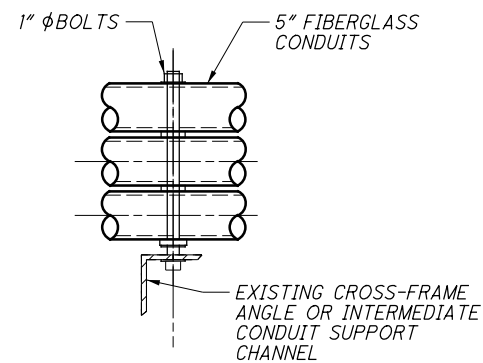
7/8" DIAM. X "H" LONG WELDED SHEAR STUD CONNECTOR (TYP.) (SEE TABLE)

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

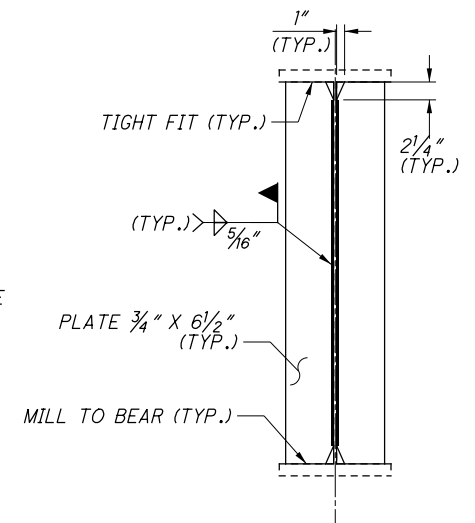
**SHEAR CONNECTOR DETAIL**



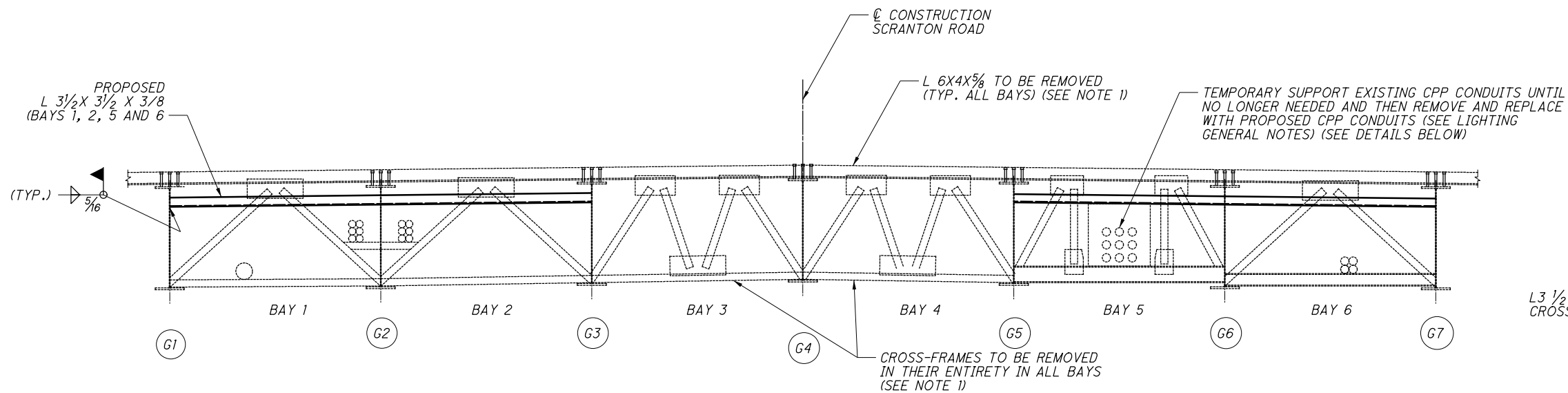
**DETAIL A**



**DETAIL B-B**



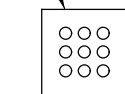
**NEW PIER BEARING STIFFENERS**



**ABUTMENT CROSS-FRAME MODIFICATION**

(FORWARD ABUTMENT SHOWN, REAR ABUTMENT OPPOSITE HAND)

CONCRETE ENCASEMENT (SEE ROADWAY PLANS FOR DETAILS AND PAYMENT)



**VIEW A-A**

CPP CONDUITS - CONCRETE ENCASEMENT UNDER APPROACH SLABS AND ROADWAY

CONDUIT EXPANSION JOINT (TYP. AT EACH ABUTMENT)

FIBERGLASS (FRE) CONDUITS ON BRIDGE

PROVIDE 2" MINIMUM BLOCKOUT SPACE FORMED WITH 1/2" PEJF TO BE FILLED WITH NON-SHRINK HIGH STRENGTH GROUT

CONCRETE ENCASEMENT (SEE ROADWAY PLANS FOR DETAILS AND PAYMENT)

**CPP CONDUIT - THRU ABUTMENT DETAIL**

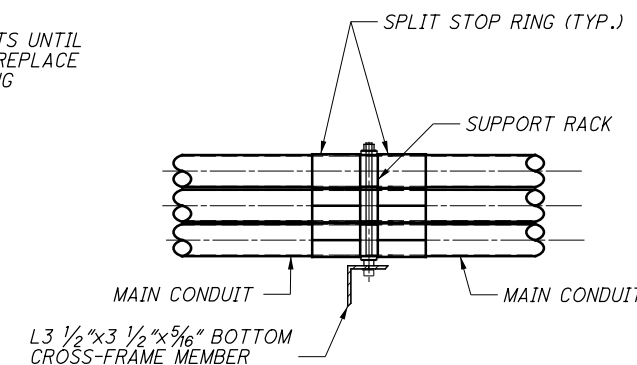
(FORWARD ABUTMENT SHOWN, REAR ABUTMENT OPPOSITE HAND)

REMOVE EXISTING CPP CONDUITS WHEN NO LONGER NEEDED AND THEN REPLACE WITH PROPOSED CPP CONDUITS (SEE LIGHTING GENERAL NOTES)

EXISTING INTERMEDIATE CROSS-FRAMES TO REMAIN

**CPP CONDUIT - EXISTING CROSS-FRAME DETAIL**

(FORWARD ABUTMENT SHOWN, REAR ABUTMENT OPPOSITE HAND)



**FIXED SUPPORT RACK**

UTILITY CONDUIT SPLIT STOP RING (SEE NOTE 2)

**NOTES:**

- CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY SUPPORT FOR EXISTING UTILITIES AS NECESSARY PRIOR TO POURING ABUTMENT DIAPHRAGM CONCRETE.
- CEMENT SPLIT STOP RINGS TO MAIN CONDUIT LINE.

**GIRDER AND END CROSS-FRAME DETAILS**

BRIDGE NO. CUY-090-1452  
SCRANTON ROAD OVER I.R. 90

25 / 38

72  
91

DESIGN AGENCY  
**PRIME**  
8415 Pulaski Place, Suite 300  
Columbus, Ohio 43240

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