

LATITUDE: 41°25'07" LONGITUDE: 81°40'28"

PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS -	

DESIGN DESIGNATION

DESIGN EXCEPTIONS

ADA DESIGN WAIVERS

NONE REQUIRED

NONE REQUIRED

Design Designation	<u>CUY-8-0226</u>	<u>CUY-10-0869</u>		
CURRENT ADT (2022)	17,618	12,841		
DESIGN YEAR ADT (2052)	20,260	14,767		
DESIGN HOURLY VOLUME (2052)	1,823	1,477		
DIRECTIONAL DISTRIBUTION	0.60	0.60		
TRUCKS (24 HOUR B&C)	2%	2%		
DESIGN SPEED	40 MPH	40 MPH		
LEGAL SPEED	35 MPH	35 MPH		
DESIGN FUNCTIONAL CLASSIFICATION:				
PRINCIPAL ARTERIAL				

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

CUY-8/10-2.26/8.69

CITIES OF BEDFORD, FAIRVIEW PARK, & CLEVELAND

CUYAHOGA COUNTY

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STRUCTURES OVER 20 FOOT SPAN	
CUY-10-0869	27-56
CUY-8-0226	57-82

	ENGINEER'S SEAL:											
N EXCEPTIONS	FOR CUY-10-0869 PLANS:											
EQUIRED	ATE OF OF OT											
ESIGN WAIVERS	* CHRISTOPHER *								<u></u>	<u></u>		
EQUIRED	57844 GISTERED			STANDARD	CONSTRUCTIO	N DRAWINGS				ATIONS	SPECIAL PROVISIONS	_
	SOONAL EN	RM-4.1	1/17/20				EXJ-4-87	7/15/22	800 SEE PR	OP. NO	METROPARKS	λ
Contact Two Working Days	SIGNED Christophen A. Selveggio						EXJ-6-17	1/15/21	844	4/20/18	ACCESS PERMIT	5
Before You Dig	DATE:12/95/22	MT-95.31	7/19/19				VPF-1-90	7/20/18	832	7/15/20	2/17/23	,
	ENGINEER'S SEAL:	MT-95.32	4/19/19						L			
		MT-95.41	1/17/20						<u> </u>			
	FOR CUY-8-0226 PLANS:	MT-101.70	1/17/20						 			
Before You Dig	WINTATE OF OWNER	MT-101.75	1/1//20						├───			
OHIO811, 8-1-1, or 1-800-362-2764	11 ¹¹¹¹	MT-101.90	1/17/20									
(Non members must be called directly)	MATTHEW J	MT-110 10	7/19/13						<u> </u>			
	LAWLER	MIT 110.10	1/10/10									
PLAN PREPARED BY:		TC-41.20	10/18/13									
		TC-42.20	10/18/13									
	NAL CONTRACT											
ARCHITECTURE - ENGINEERING - PLANNING	SIGNED: 12/1/5/20											
SURVETING - CUNSTRUCTION SERVICES	DATE:12/15/22											

FEDERAL PROJECT NUMBER

E 210 (067)

RAILROAD INVOLVEMENT

WHEELING & LAKE ERIE

PROJECT DESCRIPTION

REHABILITATION OF EXISTING BRIDGE CUY-10-0869 PIER TOWERS, INCLUDING THE ADDITION OF COVER PLATES, EXPANSION JOINTS, AND DRAINAGE SYSTEM. REHABILITATION OF EXISTING BRIDGE CUY-8-0226 SIDEWALKS, RAILINGS, FENCES, EXPANSION JOINTS, DRAINAGE SYSTEM, AND THE ADDITION OF ROCK CHANNEL PROTECTION.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.61 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.50 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)* * ROUTINE MAINTENANCE PROJECT

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED			S	DLZ
DATE	DISTRICT DEPUTY DIRECTOR		DESIGNER J	AM
			REV MJL	IEWER 10/24/22
APPROVED DATE	DIRECTOR. DEPARTMENT OF		PROJECT I	3674
	TRANSPORTATION		SHEET 1	TOTAL 82
		4	3/2	/2023

SHEET TITLE

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

EXJ-4-87	REVISED	07/15/22
EXJ-6-17	REVISED	01/15/21

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800 DATED 01/20/23

DESIGN SPECIFICATIONS:

THE EXISTING STRUCTURE WAS DESIGNED IN CONFORMANCE WITH THE "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977, INCLUDING THE 1978 THROUGH 1980 INTERIM SPECIFICATIONS AND THE OHIO SUPPLEMENT TO THESE SPECIFICATIONS.

DESIGN LOADING INCLUDES:

VEHICULAR LIVE LOAD: HS20-44 CASE II AND THE ALTERNATE MILITARY LOADING

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE REINFORCEMENT: EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60 KSI

STRUCTURAL STEEL - YIELD STRENGTH 33 KSI (EXISTING U.N.O.) STRUCTURAL STEEL - ASTM A36 - YIELD STRENGTH 36 KSI (EXIST. BEAMS FOR WIDENING) STRUCTURAL STEEL - ASTM A709 GRADE 50 - YIELD STRENGTH 50 KSI (PROPOSED)

MAINTENANCE OF TRAFFIC:

MAINTENANCE OF TRAFFIC FOR THE STRUCTURE WORK SHALL BE COORDINATED WITH THE OVERALL PROJECT. REFER TO THE MAINTENANCE OF TRAFFIC NOTES AND DETAILS ELSEWHERE IN THE PLANS.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS, SECTIONS 102.05, 105.02, AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING STRUCTURE PLANS:

PLANS MAY BE EXAMINED BY THE PROSPECTIVE BIDDERS AT THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 12, 5500 TRANSPORTATION BOULEVARD, GARFIELD HEIGHTS, OH 44125, PHONE: 216-581-2100.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:

DESCRIPTION: WORK TO BE PAID FOR UNDER THIS ITEM SHALL INCLUDE THE REMOVAL OF EXISTING STRUCTURE COMPONENTS AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE REMOVALS SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:

. STRIP SEAL EXPANSION JOINTS, INCLUDING EMBEDDED STEEL, AT THE ABUTMENTS AND ABOVE THE PIER TOWERS AS SHOWN IN THE PLANS.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN (CONT.):

- 2. PORTIONS OF EXISTING BRIDGE DECK SLAB AS SHOWN IN THE PLANS, INCLUDING SAW CUTTING.
- 3. PORTIONS OF EXISTING ABUTMENT BACKWALLS AS SHOWN IN THE PLANS, INCLUDING SAW CUTTING.
- 4. STRUCTURAL STEEL MEMBERS IN PIER TOWERS 4-8 AS SHOWN IN THE PLANS.
- 5. EXISTING STEEL DOWNSPOUT AND COLLECTOR PIPES AS SHOWN IN THE PLANS, INCLUDING ALL DIRT AND DEBRIS CONTAINED WITHIN.
- 6. MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER.

THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING BEGINS, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF CONCRETE REINFORCEMENT IN THE DECK SLAB. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, THAT IS SIGNED, SEALED, AND DATED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S ACCEPTANCE BEFORE PERFORMING REPAIR.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (STEEL GIRDER, ETC.), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS. DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, THAT IS SIGNED, SEALED, AND DATED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S ACCEPTANCE BEFORE PERFORMING REPAIR.

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING CONCRETE REINFORCEMENT, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING STEEL REINFORCEMENT DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. THE DEPARTMENT WILL NOT PERMIT HYDRAULIC HOE-RAM TYPE HAMMERS. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF ITEM 202 - PORTIONS OF STR (CONT.):

PORTIONS TO BE PRESERVE HAMMERS NOT EXCEEDING PLACE PNEUMATIC HAMMER THAT IS TO BE RETAINED IN T

MEASUREMENT & PAYMENT: REMOVALS ON A LUMP SUM E QUANTITIES OF REMOVALS A STRUCTURE REMOVED, OVE.

ITEM 509 - CONCRETE REINF REINFORCEMENT, AS PER PL

REPLACE ALL EXISTING REIN BECAUSE OF CORROSION. TO CONCRETE REINFORCEMEN REPLACE ALL EXISTING STEE INTO THE NEW WORK AND AN CONCRETE REMOVAL OPERA SIZE, COATING, AND MATERIA

ITEM 513 - STRUCTURAL STE

ALL REQUIREMENTS OF C&M WORK FOR FIELD FABRICATE HEREIN. THE DEPARTMENT FABRICATION TO BE PREQUA MATERIAL ACCEPTANCE IN A THE ENGINEER "AS-BUILT" DI DOES NOT APPLY. UPON REG THE DRAWINGS, ACCORDING RECORD PURPOSES.

THE FOLLOWING MEMBERS A ANGLES AND CHANNELS.

THE CONTRACTOR IS REQUI REPLACED. MEMBERS SHALL EXISTING). FAYING SURFACE

BOLTS SHALL BE A325 AND B RIVETS AND IN ACCORDANCE CMS 513.19 AND FIELD DRILL

PAYMENT FOR THIS WORK SI LABOR, AND INCIDENTALS NE FOR PAYMENT UNDER THIS I

TEM 514 - SURFACE PREPAR אולבאל - Field אואליאל ס ודבא 514 - Field Painting S ודבא 514 - Field Painting S ודבא 514 - Field Painting S

FIELD PAINTING OF STRUCTL STRUCTURAL STEEL MEMBEL FOLLOWING PIER TOWER AN

> - PIER TOWER- 5 CAP INCH TOWER LEG LEVELS 8-10 (- PIER TOWER 6 CAP INCLU - PIER TOWER 7 CAP INCLU TOWER LEG LEVEL 6 (2,422

BLASTING DEBRIS LYING ON I TOWERS SHALL REMOVED FF WORK IN THE TOWERS NOTE

PRIME COAT FAYING SURFAC

RUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	
ED. OUTSIDE THE 18-INCH LIMIT, THE CONTRACTOR MAY USE 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT 25 IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THE REBUILT STRUCTURE.	
THE DEPARTMENT WILL MEASURE THE QUANTITY OF BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED AT THE CONTRACT PRICE FOR ITEM 202 - PORTIONS OF ER 20 FOOT SPAN, AS PER PLAN.	
FORCEMENT, REPLACEMENT OF EXISTING CONCRETE PLAN:	
NFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE THE DEPARTMENT WILL MEASURE THE REPLACEMENT IT BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. EL REINFORCEMENT BARS WHICH ARE TO BE INCORPORATED RE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY ATIONS WITH NEW CONCRETE REINFORCEMENT OF THE SAME ALLAT NO COST TO THE DEPARTMENT.	NOTES - 1 -0869 ROCKY RIVER
EEL MEMBERS, LEVEL UF, AS PER PLAN:	AL ^-10 & F
AS 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM ED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD ALIFIED AS SPECIFIED IN S1078. SUBMIT A WRITTEN LETTER OF ACCORDANCE WITH C&MS 501.06, TO THE ENGINEER. PROVIDE RAWINGS ACCORDING C&MS 513.06, EXCEPT C&MS 501.04 ECEIPT OF THE ENGINEER'S ACCEPTANCE, SUPPLY A COPY OF G TO S1002 TO THE OFFICE OF MATERIAL MANAGEMENT FOR	JCTURE GENER BRIDGE NO. CUY NLLEY PARKWAY
ARE INCLUDED IN THIS ITEM: PIER TOWER CAP AND COLUMN	STRI I ER V/
IRED TO MEASURE THE SIZE OF THE MEMBERS TO BE L BE REPLACED IN-KIND (I.E. SAME DIMENSIONS AS THE ES OF MEMBERS SHALL BE PRIMED.	õ
BE THE SAME SIZE OR LARGER THAN THE EXISTING BOLTS OR E WITH CMS 513. BOLT HOLES SHALL BE STANDARD SIZE PER .ED.	
HALL INCLUDE ALL MATERIALS INCLUDING BOLTS, EQUIPMENT, ECESSARY TO PERFORM THE ABOVE WORK AND IS INCLUDED ITEM.	
RATION OF EXISTING STRUCTURAL STEEL, PEXISTING STRUCTURAL STEEL, STRUCTURAL STEEL, INTERMEDIATE COAT & STRUCTURAL STEEL, FINISH COAT:	
URAL STEEL SHALL BE LIMITED TO THE PROPOSED ITEM 513 - 5 RS, LEVEL UF, AS PER PLAN WITH THE ADDITION OF THE ID CAPINTERIORS.	SFN 1801325 DESIGN AGENCY
UDING NORTH TOWER LEG LEVEL 1 (LOWEST) AND SOUTH (1,491 SF (±)) IDING NORTH TOWER LEG LEVEL 18 (HIGHEST) (1,074 SF (±)) IDING NORTH TOWER LEG LEVELS 1-17 AND SOUTH	€DLZ
Z SF (±)) INTERIOR STEEL ELEMENTS INCLUDING THE FLOOR OF THE ROM ALL INTERIOR ELEMENTS PRIOR TO COMPLETION OF THE ED.	DESIGNER CHECKER JAM MJL REVIEWER CJS 10/24/22 PROJECT ID
CES. COLOR OF THE FINISH COAT SHALL MATCH THE EXISTING FED. STD. 595C 23531; EXTERIOR FED.STD. 595C 34128)	113674 SUBSET 2 30 SHEET 28 82

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15
7:53

3/7/2023

FUNDING					ESTIMATE	D QUANTITIES			CALC. BY: CHKD. BY:	JDA MJL	DATE: DATE:	10/27/22 10/28/22			
//_	ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTI	ON	REAR ABUTMENT	FORWARD ABUTMENT	PIERS	SUPER- STRUCTURE	GENERAL	REF. SHEET NUMBER			
	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPA	N, AS PER PLAN					LS	2, 28 / 30			
	509	20001	690	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING	G CONCRETE REINFORCEMENT, AS PER PLAN	245	245		200		2/30			
	513	10001	LS		STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN						LS	2/30			
	514	00100	LS		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	-					LS	<i>2/30</i>	À		
\sim	514	00200	LS		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME		m		~~~~~	h	mps m	to the second			
E.	514										LS	$\frac{2}{30}$	₿ 🐴		Ŷ
	514	00504	60	T - MNHR	GRĪNDING FĪNŠ, TEĀRS, SLIVĒRS ON EXISTING STRUCTŪR	ALSTEEL			60						/EF
	514	10000	15	EACH	FINAL INSPECTION REPAIR				15						RIV
	516	12301	434	FT	STRIP SEAL EXPANSION JOINT ANCHORED WITH ELASTOM	ERIC CONCRETE, AS PER PLAN				434		3, 27-28 / 30			6 6 7
	518	51100	12	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS					12					1E 00
	518	62100	340	FT	STRUCTURE DRAINAGE, MISC.: 10" GALVANIZED STEEL PIP	PE, INCLUDING SPECIALS			-	340		3, 29 / 30			T 0-0 D 00
	518 518	62200	5 LS	EACH	STRUCTURE DRAINAGE, MISC.: PIER TOWER COVERINGS STRUCTURE DRAINAGE, MISC.: BRIDGE DRAINAGE SYSTEI	M CLEANING			5		LS	3/30			N - w
	0750/44														A V V V
	SPECIAL	53000200	5 5	EACH	STRUCTURES: PIER TOWER CLEANOUT STRUCTURES: ACCESS MANHOLE				5		LS	3/30 27-28/30			
	607	98000	1,000	FT	FENCE, MISC.: CONSTRUCTION FENCING						1,000	3/82			ATE E NC PAR
															M/ GE
															STI STI LE
															AL BF
															2 2
															/EF
															õ
] [
				REINFO	RCING STEEL LIST	BEN	DING DIA	GRAMS							
	MA	RK NO.	LENGTH WE	IGHT TYPE	A B C D E INC.										
		AE	UTMENTS			-									
	A4	01 4	4'-8"	12 STR											
	45	:01 16	26' 11"			-									
	A5 A5	02 4	4'-8"	19 STR 19 STR		-									0EN
				180 1 85		-									1801325
			TOTAL			-									DESIGN AGENCY
		SUPEI	RSTRUCTL	IRE											
	S4	01 24	4'-8"	75 STR		REINFORCING STEEL NOTES									
	S5	01 48	26'-11" 1	348 STR		1. SERIES BARS - EACH BAR VARIES BY TA	ABULATED A	MOUNT.							
	S5	02 24	4'-8"	117 STR		2. ALL DIMENSIONS ARE OUT-TO-OUT.								(JDA JG
	S6	01 48	26'-11" 1	941 STR		3. TYPE 'STR' INDICATES A STRAIGHT BAR	R.								REVIÈWER CJS 10/24/22
				101			N THE 'MARK	COLUMN. TH	E FIRST ONE	E OR TWO DIC	GITS				PROJECT ID 113674
			IUIAL 3	481 LBS		P1101 IS A #11 BAR SIZE.			. <u>-</u> , дол 13 А	TUDAN SILE I				ŀ	SUBSET TOTAL
						5. ALL REINFORCING STEEL SHALL BE EP	OXY COATE	D.						ŀ	4 30 SHEET TOTAL
															30 82
														<u>/4</u>	3/2/2023

	SERIES	DIMENSIONS						WEIGUT		NO	
	INC.	Е	D	С	В	Α	TIPE	WEIGHT	LENGTH	NO.	MARK
	<u> </u>						-	TS	BUTMEN	AE	
							STR	12	4'-8"	4	A401
	+						STR	449	26'-11"	16	A501
							STR	19	4'-8"	4	A502
							LBS	480	TOTAL		
								TURE	RSTRUC	SUPE	
REIN	<u> </u>						STR	75	4'-8"	24	S401
1. SE	1						STR	1,348	26'-11"	48	S501
2. ALI	2						STR	117	4'-8"	24	S502
3. TY	3						STR	1,941	26'-11"	48	S601
4. THI OF P1 [.]	4						LBS	3,481	TOTAL		
5. ALI	5										



USER: zguo TIME: 3:17:59 PM DATE: 3/2/2023 CUY-8/10-02.26/08.69 17x11 (in.) SIZE:







2.

NOTES

1.



DRAINAGE REPAIR DETAILS - 1 BRIDGE NO. CUY-10-0869 OVER VALLEY PARKWAY & ROCKY RIVER

FUNDING					ESTIMATED QUANTITIES			CALC. BY: CHKD. BY:	JG MJL	DATE: DATE:	10/27/22 10/28/22
//_	ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	REAR ABUTMENT	FORWARD ABUTMENT	PIERS	SUPER- STRUCTURE	GENERAL	REF. SHEET NUMBER
		(1000									0.000
	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	3/26
	509	20001	200	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN				200		3/26
	511	24422	10 200	SE SE					10.200		2 64 66 / 92
	511	34423	19,290		CLASS QC2 CONCRETE, SIDEWALK WEARING SURFACE, AS PER PLAN				19,290		2, 04-00 / 02
	011	34440	5	01					5		
	512	10050	2,143	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				2,143		
	512	10100	3,372	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)				3,372		
	512	10600	482	FT	CONCRETE REPAIR BY EPOXY INJECTION				482		
	513	10201	7,730	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN				7,730		12/26
	514	00050	10,400	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				10,400		
	514	00056	10,400	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				10,400		
	514	00060	10,400	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				10,400		
	514	00066	10,400	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				10,400		
	514	00504	24	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL				24		
	514	10000	13	EACH	FINAL INSPECTION REPAIR				13		
	516	12301	340	FT	STRIP SEAL EXPANSION JOINT ANCHORED WITH ELASTOMERIC CONCRETE, AS PER PLAN				340		15/26
	518	51101	381	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN				381		17-20/26
	518	51201	1,800	FT	PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN, 10"				1,800		17-20/26
	518	63300	LS		STRUCTURE DRAINAGE, MISC.: BRIDGE DRAINAGE SYSTEM CLEANING					LS	4/26
	0050141	50004000	0.550	CT.			011		0.000		7/00
	SPECIAL	53001300	3,558	FI	STRUCTURES: CURB PLATE SURFACE COATING	30	314		3,208		//26
	601	20010	5	CV				F			
	601	20070	790	CY				790			
	601	32104	630	CY				630			
	007	52104	030	01				030			
	607	39901	3 540	FT	VANDAL PROTECTION FENCE 6' STRAIGHT COATED FABRIC AS PER PLAN	.34	310		3 196		15/26
	607	98000	1.000	FT	FENCE. MISC.: CONSTRUCTION FENCING				0,100	1.000	3/82
			.,							.,	
	611	97300	LS	•	CONDUIT, MISC: BURIED DOWNSPOUT					LS	
			m	/5\		(h		h		
	844	10001	¢ 950 >	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN		100		850	₹ /5	11/26
			Lus L				h	\dots	Jum	,	

						SERIES				
MARK	NO.	LENGTH	WEIGHT	TYPE	A	В	C	D	E	INC.
	Al	BUTMEN	ITS							
A501	12	25'-10"	323	STR						
A502	4	27'-5"	114	STR						
A601	4	6'-6"	39	2	0'-7"	5'-8"	0'-7"			
		TOTAL	476	LBS						
	SUDE									
0.004	JOFL			0.70						
S601	13	25'-10"	2,833	SIR 2	0' 7"	5' 8"	0' 7"			
S603	3	27'-5"	124	STR	0-7	5-0	0-7			
		TOTAL	3,113	LBS						



REINFORCING STEEL NOTES

1. SERIES BARS - EACH BAR VARIES BY TABULATED AMOUNT.

2. ALL DIMENSIONS ARE OUT-TO-OUT.

3. TYPE 'STR' INDICATES A STRAIGHT BAR.

4. THE BAR SIZE NUMBER IS INDICATED IN THE 'MARK' COLUMN. THE FIRST ONE OR TWO DIGITS OF EACH MARK INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, A501 IS A #5 BAR SIZE AND P1101 IS A #11 BAR SIZE.

BENDING DIAGRAMS

5. ALL REINFORCING STEEL SHALL BE EPOXY COATED.





SUBSET 5 SHEET 61	JG RE MJL PROJEC 1	DESIGN	SFN 18 DESIGN	ESTIMATED QUANTITIES
	EVIE 10 136	D	301 AGEI	RRINGE NO CUX-8-0396
TOT	J .we 0/2	СНЕ	24 VCY	
AL 26 AL 82	DA R 4/22		4	OVER HAWTHORN PKWY., BROADWAY AVE., TINKERS CREEK, & WHEELING & LAKE ERIE RR

