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ENGINEERING
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PLANNING
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Addendum No. 1

To: All Bidders

Project: Charlestown Pike Widening and Resurfacing

Date: October 30, 2024

This Addendum, issued prior to bidding, alters, amends, corrects, or clarifies the proposal documents to the extent stated herein and does thereby become a part of the proposal documents and will become a part of the Contract Documents of the successful bidder.

ITEMS INCLUDED IN THIS ADDENDUM

1. Changes to the Contract Documents
2. Response to Questions

Changes to Contract Documents

1. Itemized Proposal (Page BID-4 to BID-7)
    a. Revised Item No. 12, STRUCTURE BACKFILL, TYPE 1 to 1,341 CYS
    b. Revised Item No. 44, PIPE, TYPE 2, CIRCULAR, DIAMETER 12 IN. to 881 LFT
    c. Added Item No. 83, INLET, E7, 1 EACH
    d. Added Item No. 84, VIDEO INSPECTION FOR PIPE, 2,349 LFT
2. Plan Revisions
    a. Sheet 1-A - Title Sheet Replacement
    b. Sheet 2-A – Index Revision
    c. Sheet 26-1 – Pipe Material Selection Table Sheet Addition

Response to Questions

1. Q: Is the project prevailing wage?
   A: No
2. Q: Does pay item 6 cover rock excavation required for the storm and water line? If not, can a pay item be established?
   A: Pay Item 6 includes the rock excavation required for storm and water line installation.
3. Q: The structure backfill pay item does not match the storm structure data table. Can the structure backfill pay item be deleted and the structure backfill be made incidental to the storm?
   A: The structure backfill pay item will not be deleted and structure backfill will not be paid for incidental to the storm sewer pipe.
4. Q: Can a trench patch detail be provided for storm and water line crossing in existing pavement? Will the trench patch be incidental to the respective utility items?
   A: The trench patch and backfill should be completed per Standard Drawing E715-BKFL-03. The cost of patching for pipe trenching is included in the patching pay item.

5. Q: Plan sheet 34 calls for clean sand as initial backfill around the proposed water main? Is the sand incidental to the water main or will it be paid for under Pay Item 81 – Structure Backfill Type 1?
   A: The initial sand bedding and backfill up to 12" above the top of the pipe is included in the water main pay item and will not be paid for under Pay Item 81 – Structure Backfill Type 1.
6. Q: Is blasting allowed on the project?
   A: No
7. Q: Are railroad flaggers required for the 24" Steel Casing Trenchless installation under CSX Railroad? If so, who is responsible for the cost of the flaggers?
   A: Flaggers will be required. It will be the Owner's responsibility to pay for the railroad flaggers.
8. Q: Is Railroad Insurance required for the 24" Steel Casing Trenchless installation under CSX Railroad? If so, who is responsible for the cost of the insurance?
   A: Yes, railroad insurance is required. The owner has paid for the CSX's Railroad Protective Liability (RPL) Insurance.
9. Q: Can commercial stone be used on this project?
   A: All materials must meet the specifications outlined in the Indiana Standard Specifications.
10. Q: Can a pipe table be provided for the storm which shows what pipe types are allowed for the various runs of storm on the project?
    A: See revised plan sheet.
11. Q: Has all R/W been acquired for this project?
    A: All right-of-way except for one parcel has been acquired. Refer to Special Provision No. 18 EXISTING CONDITION OF UTILITIES, R/W, ENCROACHMENT UTILITIES for more information.
12. Q: Can clarification be provided on what is to be included in pay item 82, Water System Abandon? Do we remove the existing 8" Water Main that is called out to be abandoned on the plans or do we fill it with flowable fill?
    A: The existing 8" water main does not need to be removed unless it conflicts with the proposed work. The existing 8" water main open ends must be plugged and sealed, but it does not need to be flowable filled. Refer to Special Provisions, Sections SP-34, Selective Demolition for the other items included in pay item 82, Water System, Abandon.
13. Q: Are bell restraints required on the water main outside of megalug fittings?
    A: Pipe bell restraints are required in accordance with the Restrained Joint Fitting Details, Note #3 and the summary table on sheet 34.
14. Q: After revie of the cross sections, it appears that the rock quantity form the cross sections listed as 407 cys on plan sheet 9 should be 817 cys. Can you recheck?
    A: Based on the variable refusal depths obtained from Table 4 in the Geotechnical Report, the quantity calculations anticipated half of the cross sectional rock area is rock excavation and the other half is common excavation. The pay items reflect this assumption.
15. Q: Is appears that the quantity from the cross sections is also included in the 4,202 cys of common excavation? Can you recheck?
    A: Based on the variable refusal depths obtained from Table 4 in the Geotechnical Report, the quantity calculations anticipated half of the cross sectional rock area is rock excavation and the other half is common excavation. The pay items reflect this assumption.

16. Q: Can a pay item be added for Video Inspection for Pipes that is called out on the Structure Data Table?
    A: See revised Itemized Proposal.
17. Q: Can pay item 46 – Pipe End Section, Min Area 11.6 sft be adjusted to 1 each per plan sheet 10?
    A: End sections are required at both ends of the pipe.
18. Q: Also, it looks like pay item 44 - Pipe Type 2, Circular, Diameter 12 inch and pay item 45 – Pipe Type 2, Circular, Diameter 24 inch quantities do not match the quantities on the structure data table. Can you recheck both of these?
    A: The quantity for Pay Item 45 is correct. See revised Itemized Proposal for pay item 44.
19. Q: SP-16 says “Any storm sewer placed within 10 feet of the new water line or within 25 feet of an existing septic filed shall be C900 PVC pipe.” Does water line mean the water main or water main and water service lines?
    A: “Water Line” means both water main and water service lines.

PART 3

ITEMIZED PROPOSAL

ITEM NO.	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	AMOUNT
1	CONSTRUCTION ENGINEERING	LS	1		
2	MOBILIZATION AND DEMOBILIZATION	LS	1		
3	CLEARING RIGHT-OF-WAY	LS	1		
4	FENCE, FARM FIELD, REMOVE	LFT	1,910		
5	EXCAVATION, COMMON	CYS	4,205		
6	EXCAVATION, ROCK	CYS	2,820		
7	STORMWATER MANAGEMENT BUDGET	DOL	29,500		
8	STORMWATER MANAGEMENT IMPLEMENTATION	LS	1		
9	SWQCP PREPARATION	LS	1		
10	SUBGRADE TREATMENT, TYPE II	SYS	812		
11	SUBGRADE TREATMENT, TYPE IBL	SYS	9,185		
12	STRUCTURE BACKFILL, TYPE 1	CYS	~~1,322~~ 1,341		
13	GEOGRID, TYPE IB	SYS	179		
14	DENSE GRADED SUBBASE	CYS	136		
15	WIDENING WITH HMA, TYPE B	TON	171		
16	HMA PATCHING, PARTIAL DEPTH, TYPE B	TON	458		
17	MILLING, ASPHALT, 1 1/2 IN.	SYS	7,298		
18	HMA SURFACE, TYPBE B	TON	908		
19	HMA INTERMEDIATE, TYPE B	TON	504		
20	HMA BASE, TYPE B	TON	806		
21	JOINT ADHESIVE, SURFACE	LFT	3,881		
22	JOINT ADHESIVE, INTERMEDIATE	LFT	663		
23	LIQUID ASPHALT SEALANT	LFT	3,881		

24	HMA WEDGE AND LEVEL, TYPE B	TON	256		
25	ASPHALT FOR TACK COAT	TON	5		
26	CURB AND GUTTER, CONCRETE	LFT	7,654		
27	CURB AND GUTTER, TURNOUT COMBINED	LFT	9		
28	HMA FOR APPROACHES, TYPE B	TON	356		
29	PCCP FOR APPROACHES, 6 IN.	SYS	633		
30	PCCP FOR APPROACHES, 9 IN.	SYS	179		
31	MAILBOX ASSEMBLY, SINGLE	EACH	10		
32	RIGHT-OF-WAY MARKER	EACH	65		
33	MONUMENT, TYPE B	EACH	8		
34	RIPRAP, REVETMENT	TON	1,221		
35	GEOTEXTILE FOR RIPRAP, TYPE 2A	SYS	1,148		
36	MOBILIZATION AND DEMOBILIZATION FOR SEEDING	EACH	2		
37	FERTILIZER	TON	1		
38	SEED MIXTURE, TYPE R	LBS	500		
39	MULCHING MATERIAL	TON	5		
40	WATER	kGAL	29		
41	SODDING, NURSERY	SYS	7,104		
42	FIELD OFFICE, TYPE C	MOS	12		
43	PIPE, TYPE 1, CIRCULAR, DIAMETER 15 IN.	LFT	90		
44	PIPE, TYPE 2, CIRCULAR, DIAMETER 12 IN.	LFT	~~765~~ 881		
45	PIPE, TYPE 2, CIRCULAR, DIAMETER 24 IN.	LFT	1,441		
46	PIPE END SECTION, MIN. AREA 11.6 SFT	EACH	2		
47	PIPE EXTENSION, DEFORMED, MIN. AREA 11.6 SFT	LFT	27		
48	PIPE END SECTION, DIAMETER 12 IN.	EACH	10		
49	PIPE END SECTION, DIAMETER 15 IN.	EACH	2		
50	PIPE END SECTION, DIAMETER 24 IN.	EACH	1		
51	MANHOLE, TYPE J15, MODIFIED	EACH	4		
52	MANHOLE, TYPE C4	EACH	7		

53	INLET, TYPE B15	EACH	19		
54	INLET, TYPE C15	EACH	12		
55	CONSTRUCTION SIGN, TYPE C	EACH	2		
56	ROAD CLOSURE SIGN ASSEMBLY	EACH	4		
57	DETOUR ROUTE MARKER ASSEMBLY	EACH	24		
58	CONSTRUCTION SIGN, TYPE A	EACH	4		
59	MAINTAINING TRAFFIC	LS	1		
60	BARRICADE, TYPE III-B	LFT	200		
61	SIGN POST, SQUARE, TYPE 1, UNREINFORCED ANCHOR BASE	LFT	130		
62	SIGN, SHEET, WITH LEGEND, 0.080 IN. THICKNESS	SFT	54		
63	SIGN, SHEET, WITH LEGEND, 0.100 IN. THICKNESS	SFT	25		
64	HANDHOLE, SIGNAL, TYPE 1	EACH	1		
65	CONDUIT, HDPE, 2 IN. SCHEDULE 80	LFT	200		
66	SIGNAL CABLE, ROADWAY LOOP, COPPER, 1C/14 GAUGE	LFT	434		
67	SIGNAL CABLE, DETECTOR LEAD-IN, COPPER, 2C/16 GAUGE	LFT	203		
68	SIGNAL DETECTOR HOUSING	EACH	1		
69	SAW CUT FOR ROADWAY LOOP DETECTOR AND SEALANT	LFT	146		
70	LINE, THERMOPLASTIC, SOLID, YELLOW, 4 IN.	LFT	7,580		
71	TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, WHITE, 24 IN.	LFT	139		
72	PAVEMENT MESSAGE MARKING, THERMOPLASTIC, RXR	EACH	2		
73	WATER MAIN, PVC, 8 IN.	LFT	16		
74	WATER MAIN, PVC, 12 IN.	LFT	3,723		
75	GATE VALVE WITH VALVE BOX, 8 IN.	EA	2		
76	GATE VALVE WITH VALVE BOX, 12 IN.	EA	8		
77	FIRE HYDRANT ASSEMBLY	EA	8		
78	WATER SERVICE LINE, 5/8 IN.	LFT	579		
79	WATER METER PIT	EA	8		
80	PIPE INSTALLATION, TRENCHLESS, 24 IN. STEEL	LFT	190		

81	STRUCTURE BACKFILL, TYPE 1	CYS	400		
82	WATER SYSTEM, ABANDON	LS	1		
83	INLET, E7	EACH	1		
84	VIDEO INSPECTION FOR PIPE	LFT	2,349		

TOTAL BASE BID AMOUNT (IN FIGURES) **$** _____

Mandatory Alternate

Items in this table must be completed. Failure to complete this table can result in Bid rejection. Mandatory Bid Alternates may be utilized by the OWNER to award the Project. If Mandatory Alternates are selected, no additional time will be provided to the CONTRACTOR to complete the Project.

MA-1 Description: Install 8” water main, valves and fittings in lieu of 12” water main from Station 113+13 to Station 149+42.

ITEM	DESCRIPTION	ITEM COST ADD / DEDUCT Adjustment to Bid (+ or -)
MA-1	8” Water Main	$

DESIGN DATA	
DESIGN SPEED	30 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

CLARK COUNTY

ROAD PLANS

CHARLESTOWN PIKE FROM SALEM NOBLE ROAD TO SR 62 IMPROVEMENT

WIDENING AND RESURFACING OF CHARLESTOWN PIKE FROM SALEM NOBLE ROAD TO SR 62, LOCATED SURVEY 52, T-99, R-99, UTICA TOWNSHIP, CLARK COUNTY, INDIANA

PROJECT LOCATION SHOWN BY
Clark County

LATITUDE: 38°22'41"N LONGITUDE: 85°41'54"W

GROSS LENGTH: 1.723 MI.
NET LENGTH: 1.723 MI.
MAX. GRADE: 6.70 %

CLARK COUNTY BOARD OF COMMISSIONERS

APPROVED

BOB SLOUTER, PRESIDENT DATE

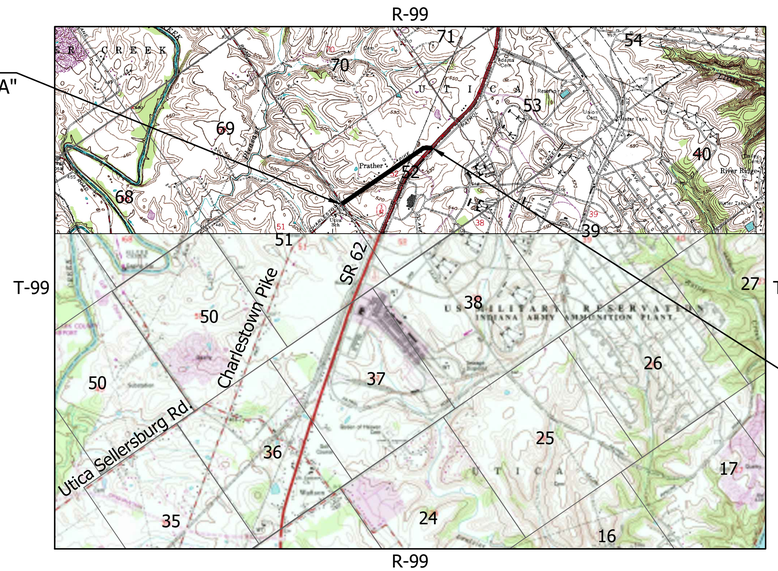
CONNIE SELLERS, VICE PRESIDENT DATE

JACK COFFMAN, MEMBER DATE

COUNTY ENGINEER

BRIAN DIXON, P.E. DATE

BEGIN PROJECT
Sta. 112+53.68 Line "PR-A"



Scale 1" = 125000'

END PROJECT
Sta. 150+81.65 Line "PR-A"

[INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2024 TO BE USED WITH THESE PLANS]

UNITED Consulting
8440 Allison Pointe Boulevard, Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

PLANS PREPARED BY: UNITED CONSULTING (317) 895-2585
PHONE NUMBER

CERTIFIED BY: October 3, 2024
DATE

JON CLODFELTER REGISTERED No. 19800071 STATE OF INDIANA PROFESSIONAL ENGINEER

SURVEY BOOK	SHEETS
	1-A of 57
	PROJECT
	N/A

UTILITIES

WATER
Watson Water Co., Inc.
Ken Alexander
4106 Utica Sellersburg Rd.
Jeffersonville, IN 47130
(812) 246-5416

ELECTRIC
Clark County R.E.M.C.
Joe McNew
7810 State Rd. 60
Sellersburg, IN 47172
(812) 248-7511

COMMUNICATIONS
AT&T Distribution
Andrew Johnson
510 E. Spring St.
New Albany, IN 47150
(812) 948-7170

Charter Communications
Kevin Mercer
10168 Linn Station Rd
Louisville, KY 40223
(317) 265-3050

The project limits may include private laterals to the utilities. The contractor shall verify the location of private laterals.

REVISIONS

SHEET NO.	DATE	REVISION
1-A	10/30/2024	Title Sheet Replacement
2-A		Index Revision - Revision Table Update
26-1		Pipe Material Selection Table Added

GENERAL NOTES

1	Refer to the CSX Transportation Public Project Information Manual for additional requirements needed for working adjacent to CSXT. Specific sections that pertain to this project are: Special Provisions for Construction near CSXT Property, Construction Submission Criteria, Soil and Water Management Policy, and Insurance Requirements for Public Projects.
2	Contractor access will be limited to the immediate project area only. The CSXT right-of-way outside the project area may not be used for contractor access to the project site and no temporary at-grade crossings will be allowed.
3	The Contractor may not use CSXT right-of-way for storage of materials or equipment during construction without prior CSXT approval. The CSXT right-of-way must remain clear for railroad use at all times. Equipment may not be positioned to block the railroad access road, track area or any part of the CSXT right-of-way without prior CSXT approval.
4	The Contractor will be required to abide by the provisions of the Agency/CSXT Construction Agreement. Periodically, throughout the project duration, the Contractor will be required to meet, discuss and, if necessary, take immediate action at the discretion of CSXT personnel and/or their authorized Representative, to comply with provisions of that agreement and these specifications.
5	Upon completion of the work on CSXT property, the Contractor shall request the Owner to arrange a final inspection of the project with the Railroad's Project Engineer or his authorized Representative.
6	CSXT shall be notified at least 5 days in advance of the Pre-Construction Meeting.
7	CSXT has sole authority to determine the need for track protection required to protect its operations and property. In general, track protection will be required whenever Contractor or equipment are, or are likely to be, working within fifty feet of track or other track clearances as specified by CSX.
8	Disposal of material excavated from CSX Transportation property must be adhere to CSX's soil management policies. Soil generated from CSX property must be disposed of at a CSX approved facility or reused on CSX property. The contractor shall be responsible for adhering to this requirement and obtaining any applicable permits prior to working on CSX property. The estimated quantity of excavated material within the railroad right of way is 100 CYS, but shall be verified by the contractor.
9	The following CSX Documents are incorporated by reference and shall be considered by the contractor when preparing bids: CONSTRUCTION SUBMISSION CRITERIA, SPECIAL PROVISIONS, INSURANCE REQUIREMENTS, SOIL AND WATER MANAGEMENT POLICY.
10	An "Obstruction Free Zone" (OFZ) must be maintained adjacent and parallel to the track to eliminate potential tripping hazards. No roadway features (curbs, guardrail, poles, posts, other) are permitted within twelve (12) feet of the centerline of track unless flush with the pavement or adjacent ground. No portland cement concrete (bituminous only) permitted within OFZ.
11	Seeding and Sodding shall not be placed within 40 feet of the railroad crossing. Any disturbed areas within these limits shall be replaced with Compacted Aggregate #53.

INDEX

BENCHMARK	ADJ. DIFF. LEVELED ELEV. (N.A.V.D. 88 - Feet)	POINT NUMBER	STATION	OFFSET	DESCRIPTION
TBM 200	540.86	200	OPOT 630+41.41 A	37.58' RT.	CUT "X" SET NORTHWEST BOLT IN STRAIN POLE IN WEST CORNER OF CHARLESTOWN PIKE AND SR 62
TBM 201	530.09	201	OPOT 622+42.44 A	12.73' LT.	MAG SPIKE SET SOUTHEAST FACE OF POWER POLE 18 FEET NORTHWEST OF CENTER LINE OF CHARLESTOWN PIKE AND 45 FEET SOUTHWEST OF CENTERLINE OF RR TRACKS
TBM 202	524.23	202	OPOT 610+14.71 A	24.08' RT.	MAG SPIKE SET NORTHWEST FACE OF POWER POLE #707-51-0026 BEING 25 FEET SOUTHEAST OF CENTER LINE OF CHARLESTOWN PIKE
TBM 203	486.97	203	OPOT 601+04.15 A	24.15' RT.	MAG SPIKE SET NORTHWEST FACE OF POWER POLE #707-51-0015 BEING 25 FEET SOUTHEAST OF CENTER LINE OF CHARLESTOWN PIKE AND 865 FEET NORTHEAST OF CENTER OF SALEM NOBLE ROAD

BENCHMARK	ADJ. DIFF. LEVELED ELEV. (N.A.V.D. 88 - Feet)	POINT NUMBER	STATION	OFFSET	DESCRIPTION
*TBM 8	463.61	108	OPOT 502+47.31 "A"	188.7' LT.	RAILROAD SPIKE FOUND IN THE NORTHEAST FACE OF POWER POLE #756480039 ALONG THE SOUTH SIDE OF UTICA SELLERSBURG ROAD ±190 FEET WEST OF THE CENTERLINE OF CHARLESTOWN PIKE.
TBM 100	497.88	100	OPOT 515+81.5 "A"	19.3' RT.	MAG SPIKE SET IN THE NORTHWEST FACE OF POWER POLE 756400170 ALONG THE EAST SIDE OF CHARLESTOWN PIKE ±125 FEET SOUTH OF RED TAIL RIDGE.
TBM 101	501.70	101	OPOT 541+00.9 "A"	31.1' LT.	CUT SQUARE IN THE SOUTHEAST CORNER OF THE CONCRETE BASE OF A TELEPHONE PEDESTAL ±30 FEET NORTHWEST OF THE CENTERLINE OF CHARLESTOWN PIKE AND ±45 FEET SOUTHWEST OF THE CENTERLINE OF KING ROAD.
TBM 102	500.87	102	OPOT 552+01.1 "A"	15.6' LT.	MAG SPIKE SET IN THE SOUTHEAST FACE OF POWER POLE 757090111 ±1,070 FEET NORTH OF KING ROAD ALONG THE WEST SIDE OF CHARLESTOWN PIKE.
TBM 103	514.70	103	OPOC 567+28.3 "A"	31.2' RT.	MAG SPIKE SET IN THE WEST FACE OF POWER POLE 757010003 AT 5618 CHARLESTOWN PIKE ±30 FEET SOUTHEAST OF THE CENTERLINE OF CHARLESTOWN PIKE AND ±215 FEET NORTH OF RAINTREE RIDGE.
TBM 104	513.27	104	OPOT 586+93.6 "A"	24.3' RT.	CUT "X" IN THE NORTHWEST BONNET BOLT OF A FIRE HYDRANT ±25 FEET SOUTHEAST OF THE CENTERLINE OF CHARLESTOWN PIKE ±540 FEET SOUTHWEST OF SALEM NOBLE ROAD AT THE ENTRANCE TO 5916 CHARLESTOWN PIKE.
Notes					
*Held to establish the vertical datum on the NAVD 88. TBM is from the control levels performed by Jacobi, Toombs, and Lanz Engineers (JTL) which originated from NGS BM "TT 3 D." They converted the published NGVD 29 elevation to NAVD 88 using CORPSCON.					

SURVEY LEGEND

- Bollard
- Capped Rebar
- Clean out
- Commercial Sign
- Curb Inlet
- Fiber Optic Handhole
- Fire Hydrant
- Gas Valve
- Guy Wire Anchor
- Light Pole
- Power Pole
- Sign
- Telephone manhole
- Telephone Pedestal
- Telephone Pole
- Traffic signal pole
- Temporary Benchmark
- Water Meter
- Water Valve
- Utility Manhole
- Traffic Manhole
- Guardrail
- Fence
- Wrought Iron Fence
- Chainlink Fence
- Brush Row
- Overhead sign
- Fiber Optic
- Overhead Electric Line
- Bush
- Tree, Deciduous

Indiana 811 Know what's below. 811 before you dig.
CALL TWO WORKING DAYS BEFORE YOU DIG
Call 811 or 800-382-5544

UNITED Consulting
8440 Allison Pointe Boulevard, Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

ERIC S. HARNED REGISTERED PE No. 12000710 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 10-30-2024 DATE

DESIGNED: ESH | DRAWN: VAD
CHECKED: JEL | CHECKED: ESH

CLARK COUNTY
INDIANA

INDEX AND GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	-
VERTICAL SCALE	DESIGNATION
N/A	-

SURVEY BOOK	SHEETS		
-	2-A	of	57
CONTRACT	PROJECT		
-	-		

File Name: P:\RD\C3D\21-408 Charlestown Pike\ Salem Rd to SR 62\\Road\Dwg\Plans\Index.dwg Plot Date: 10/30/2024 Plotted By: Eric Harned

			STRUCTURE NUMBER																				
			101	102	103	104	105	106	107	108	109	110	111	112	113	115	117	118	120	122	123	124	125	126
	PIPE TYPE / SHAPE		2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.
	SMOOTH PIPE SIZE		12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	24 in.	24 in.	12 in.	24 in.	24 in.	12 in.	24 in.	12 in.	24 in.	12 in.
	CORRUGATED PIPE SIZE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	RCP/RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
		D 0.01 RATING	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	CORRUGATED PE PIPE, TYPE S (S)*		OK		OK	OK		OK		OK		OK	OK		OK	OK		OK	OK		OK	OK	OK	OK
	PROFILE WALL (RIBBED) PE PIPE (S)*														OK	OK		OK	OK		OK		OK	
	PROFILE WALL (CLOSED) PE PIPE (S)*														OK	OK		OK	OK		OK		OK	
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		OK / 26		OK / 26	OK / 26		OK / 26		OK / 26		OK / 26	OK / 26		OK / 26	OK / 26		OK / 26	OK / 26		OK / 26	OK / 26	OK / 26	OK / 26
	CORRUGATED PP PIPE (S)		OK		OK	OK		OK		OK		OK	OK		OK	OK		OK	OK		OK	OK	OK	OK
	PROFILE WALL PVC PIPE (S)		OK		OK	OK		OK		OK		OK	OK		OK	OK		OK	OK		OK	OK	OK	OK
	SMOOTH WALL PVC PIPE (S)*		OK		OK	OK		OK		OK		OK	OK		OK	OK		OK	OK		OK	OK	OK	OK
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
CORR. STEEL PIPE/ARCH	FULLY BIT. COATED & LINED (S)	CORR. PROFILE																						
		THICKNESS																						
	ZINC COATED (C)	CORR. PROFILE																						
		THICKNESS																						
	ZINC COATED W/ BPI (C)	CORR. PROFILE																						
		THICKNESS																						
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE																						
		THICKNESS																						
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																						
		THICKNESS																						
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE																						
		THICKNESS																						
SPIRAL RIB STEEL	ZINC COATED (SS)	RIB PROFILE																						
		THICKNESS																						
	ZINC COATED W/ BPI (SS)	RIB PROFILE																						
		THICKNESS																						
	ALUM. COATED TYPE 2 (SS)	RIB PROFILE																						
		THICKNESS																						
	POLYMER PRECOATED GALVANIZED (SS)	RIB PROFILE																						
		THICKNESS																						
STR. PL. PIPE/ARCH	STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE																						
		THICKNESS																						
	STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE																						
		THICKNESS																						
	STR. PLATE STEEL (C)	CORR. PROFILE																						
		THICKNESS **																						
	STR. PLATE STEEL W/ CFP (C)	CORR. PROFILE																						
		THICKNESS **																						

LEGEND

RCP-	Reinforced Concrete Pipe
RCHEP-	Reinforced Concrete Horizontal Elliptical
PE-	Polyethylene
DR-	Dimension Ratio
PVC-	Polyvinyl Chloride
BIT-	Bituminous
CORR-	Corrugation
BPI-	Bituminous Paved Invert
ALUM-	Aluminum
STR-	Structural
CFP-	Concrete Field Paving
CIR-	Circular Pipe
DEF-	Deformed Pipe
(S)-	Smooth Pipe Material
(C)-	Corrugated Pipe Material
OK-	Acceptable for Use
(LS)-	Lock Seam Pipe Required
(SS)-	Semi-Smooth Pipe Material
(R)-	Riveted

*- Refer to Standard Drawings 715-PHCL-18 and -19 for nominal diameter appropriate for pay item diameter.

**- Tabulated thickness refers to top and side plates. Bottom plates shall be of next greater available thickness.

			STRUCTURE NUMBER																				
			127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	146	147	148	149	150	151
	PIPE TYPE / SHAPE		2 / Cir.	1 / Cir.	2 / Cir.	3 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	1 / Cir.
	SMOOTH PIPE SIZE		12 in.	24 in.	12 in.	12 in.	24 in.	12 in.	24 in.	12 in.	12 in.	24 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	12 in.	15 in.
	CORRUGATED PIPE SIZE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	RCP/RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
		D 0.01 RATING	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		OK	OK		
	CORRUGATED PE PIPE, TYPE S (S)*			OK	OK		OK	OK	OK	OK		OK	OK		OK	OK						OK		
	PROFILE WALL (RIBBED) PE PIPE (S)*			OK			OK		OK			OK												
	PROFILE WALL (CLOSED) PE PIPE (S)*			OK			OK		OK			OK												
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			OK / 26	OK / 26		OK / 26	OK / 26	OK / 26	OK / 26		OK / 26	OK / 26		OK / 26	OK / 26						OK / 26		
	CORRUGATED PP PIPE (S)			OK	OK		OK	OK	OK	OK		OK	OK		OK	OK						OK		
	PROFILE WALL PVC PIPE (S)			OK	OK		OK	OK	OK	OK		OK	OK		OK	OK						OK		
	SMOOTH WALL PVC PIPE (S)*			OK	OK		OK	OK	OK	OK		OK	OK		OK	OK						OK		
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		OK	OK		
CORR. STEEL PIPE/ARCH	FULLY BIT. COATED & LINED (S)	CORR. PROFILE																						
		THICKNESS																						
	ZINC COATED (C)	CORR. PROFILE																						
		THICKNESS																						
	ZINC COATED W/ BPI (C)	CORR. PROFILE																						
		THICKNESS																						
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE																						
		THICKNESS																						
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																						
		THICKNESS																						
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE																						
		THICKNESS																						
SPIRAL RIB STEEL	ZINC COATED (SS)	RIB PROFILE																						
		THICKNESS																						
	ZINC COATED W/ BPI (SS)	RIB PROFILE																						
		THICKNESS																						
	ALUM. COATED TYPE 2 (SS)	RIB PROFILE																						
		THICKNESS																						
	POLYMER PRECOATED GALVANIZED (SS)	RIB PROFILE																						
		THICKNESS																						

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ERIC S. HARNED REGISTERED PE No. 12000710 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 10-30-2024 DATE

DESIGNED: ESH DRAWN: VAD

CHECKED: BJP CHECKED: ESH

CLARK COUNTY
INDIANA

PIPE MATERIAL SELECTION TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	-
VERTICAL SCALE	DESIGNATION
N/A	-

SURVEY BOOK	SHEETS
-	26-1 of 57
CONTRACT	PROJECT
-	-