

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

PRE-US 35-2.62

JACKSON, WASHINGTON TOWNSHIP

PREBLE COUNTY

FEDERAL PROJECT NUMBER

E150(963)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

RESURFACING A PORTION OF US 35 IN PREBLE COUNTY BETWEEN I-70 AND THE CITY OF EATON. RETROFIT GUARDRAIL ON BRIDGE PRE-35-0860 AND REPLACE THE ASPHALT SURFACE COURSE WITH THE SAME TREATMENT AS THE APPROACH ROADWAY. REPLACE END SECTION OF 4 BOX CULVERT, RETROFIT GUARDRAIL, PATCH AND SEAL EDGES OF CONCRETE BOX AT PRE-35-0817.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: =1.78 ACRES
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: =N/A ACRES
 NOTICE OF INTENT EARTH DISTURBED AREA: = N/A (NOI NOT REQUIRED)*
 *ROUTINE MAINTENANCE PROJECT

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEARBY 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 WILL BE AS SET FORTH ON THE PLANS AND ESTIMATE.

Tammy K. Campbell
 District Deputy Director

Jack Marchbanks
 Jack Marchbanks, PhD
 Director, Department of Transportation

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LOCATION MAP

LATITUDE: 39°45'36" LONGITUDE: -84°44'25"

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

DESIGN DESIGNATION

CURRENT ADT (2024)	5700
DESIGN YEAR ADT (2036)	7500
DESIGN HOURLY VOLUME (2036)	1100
DIRECTIONAL DISTRIBUTION	71.6%
TRUCKS (24 HOUR B&C)	12%
DESIGN SPEED	60
LEGAL SPEED	55
DESIGN FUNCTIONAL CLASSIFICATION:	
04 MINOR ARTERIAL (RURAL), 04 MINOR ARTERIAL (URBAN)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

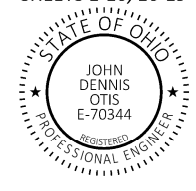
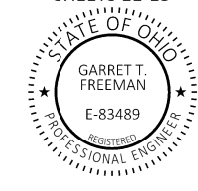
UNDERGROUND UTILITIES
 Contact Two Working Days
 Before You Dig


OHIO811.org
 Before You Dig

OHIO811. 8-1-1. or 1-800-362-2764
 (Non members must be called directly)

PLAN PREPARED BY:
 ODOT DISTRICT 8 ENGINEERING
 505 S. STATE ROUTE 741
 LEBANON, OHIO 45036

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	MT-97.11	1/20/17	800-2023	7/21/2023
BP-4.1	7/19/13	MT-105.10	1/17/20	832	7/15/22
BP-7.1	1/20/23			843	10/18/19
MGS-1.1	7/16/21	TC-61.30	7/19/19	872	1/21/22
MGS-2.1	1/19/18	TC-64.10	1/20/23	874	4/17/20
		TC-65.10	1/17/14	875	1/18/19
		TC-65.11	7/15/22	878	1/21/22
MGS-4.3	1/18/13	TC-71.10	4/26/23		
MGS-5.3	7/15/16				
RM-4.2	4/17/20				
DBR-2-73	7/19/02				
DBR-3-11	7/15/11				
PCB-91	7/17/20				

<p>ENGINEER'S SEAL</p> <p>ROADWAY SHEETS 1-10, 16-19</p> 	<p>ENGINEER'S SEAL</p> <p>BRIDGE SHEETS 11-13</p> 
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TITLE SHEET

DESIGN AGENCY



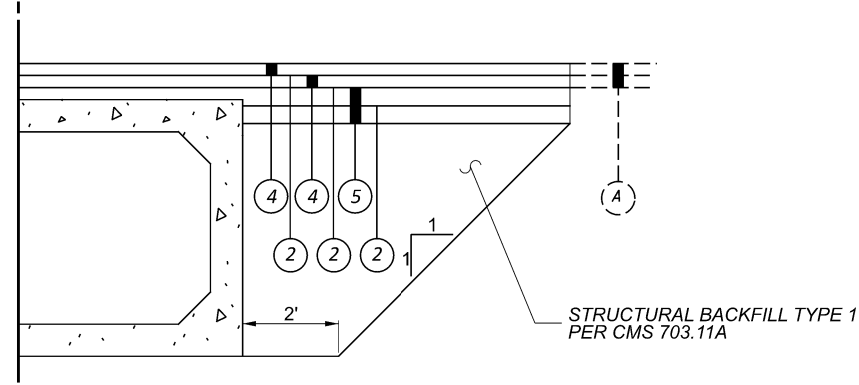
DESIGNER	JED
REVIEWER	JDO
PROJECT ID	100648
SHEET	P.1
TOTAL	19

PRE-US 35-2.62

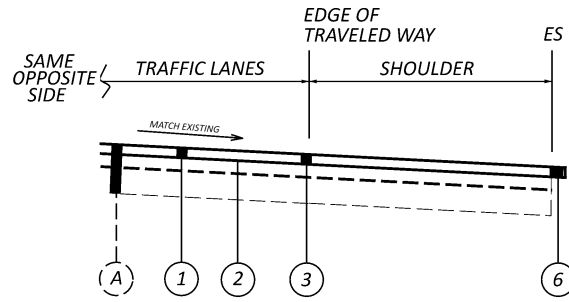
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PAVEMENT BUILD-UP FOR PRE-35-8.18

SYMMETRICAL ABOUT @ STRUCTURE



TYPICAL FOR US 35



- (A) EXISTING ASPHALT CONCRETE PAVEMENT
- (1) ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), PWL, 2024, AS PER PLAN
- (2) ITEM 407 - NON-TRACKING TACK COAT
- (3) ITEM 254 - 1.50" PAVEMENT PLANING ASPHALT CONCRETE
- (4) ITEM 441 - 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22
- (5) ITEM 301 - 8" ASPHALT CONCRETE BASE (449)
- (6) ITEM 617 - COMPACTED AGGREGATE

PAVEMENT CALCULATIONS - STRUCTURE REPAIR (PRE-35-8.18)												
PLAN SPLIT	ROUTE	LENGTH	AVERAGE WIDTH	PAVEMENT AREA	202	301	407	441		611		NOTES
					PAVEMENT REMOVED	8" ASPHALT CONCRETE BASE, PG64-22	NON TRACKING TACK COAT @ 0.06 GAL/SQ YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22	CONDUIT, MISC.: GRANULAR STRUCTURAL BACKFILL, 703.11	THICK-NESS	THICK-NESS	
		FT	FT	SQ YD	SQ YD	CU YD	GAL	INCHES	CU YD	INCHES	CU YD	
04/STR/04	PRE-35-8.18	16	6	11	11	2	1.3	3.00	1		6	PAVEMENT REPLACEMENT UPSTATION
		16	6	11	11	2	1.3	3.00	1		6	PAVEMENT REPLACEMENT DOWNSTATION
TOTALS CARRIED TO GENERAL SUMMARY					22	5	4	X	2	X	12	X

PLAN SPLIT	COUNTY-ROUTE	LOG POINT (MILE)		LENGTH	PAVEMENT AREA (Micro-Station Generated Area)	PAVEMENT AREA WITH NO SHOULDERS	PAVEMENT AREA	254		407		442		617				618	874	NOTES	
		FROM	TO					PAVEMENT PLANING ASPHALT CONCRETE	PATCHING PLANED SURFACE	NON TRACKING TACK COAT @ 0.09 GAL/SQ YD	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), PWL, 2024, AS PER PLAN	ANTI-SEGREGATION EQUIPMENT	COMPACTED AGGREGATE, 1.5" DEPTH, 12" WIDTH	SHOULDER PREPARATION	WATER @ 20 GAL/CU YD	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	LONGITUDINAL JOINT PREPARATION				
																		DEPTH	SQ YD		SQ YD
				MILES	FT	SQ FT	SQ FT	SQ YD	INCHES	SQ YD	SQ YD	GAL	INCHES	CU YD	CU YD	SQ YD	MGAL	MILES	MILES		
01/STR/05	PRE-US 35	2.67	3.17	0.50	2640	102659	69530	11407	1.50	11406.6	115	1026.6	1.50	475.3	321.9	24.4	586.7	0.5	0.50	0.50	RUMBLES END 650' PRIOR TO CITY OF EATON LIMITS
01/STR/05	PRE-US 35	3.17	3.67	0.50	2640	95500	61707	10611	1.50	10611.1	107	955.0	1.50	442.1	285.7	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	3.67	4.17	0.50	2640	65365	61879	7263	1.50	7262.8	73	653.7	1.50	302.6	286.5	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	4.17	4.67	0.50	2640	84680	61293	9409	1.50	9408.9	95	846.8	1.50	392.0	283.8	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	4.67	5.17	0.50	2640	82190	60623	9132	1.50	9132.2	92	821.9	1.50	380.5	280.7	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	5.17	5.67	0.50	2640	81460	60401	9051	1.50	9051.1	91	814.6	1.50	377.1	279.6	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	5.67	6.17	0.50	2640	83215	62203	9246	1.50	9246.1	93	832.2	1.50	385.3	288.0	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	6.17	6.67	0.50	2640	99155	62820	11017	1.50	11017.2	111	991.6	1.50	459.1	290.8	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	6.67	7.17	0.50	2640	89685	63349	9965	1.50	9965.0	100	896.9	1.50	415.2	293.3	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	7.17	7.67	0.50	2640	84920	62206	9436	1.50	9435.6	95	849.2	1.50	393.1	288.0	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	7.67	8.17	0.50	2640	86235	61231	9582	1.50	9581.7	96	862.4	1.50	399.2	283.5	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	8.17	8.67	0.50	2640	86625	61880	9625	1.50	9625.0	97	866.3	1.50	401.0	286.5	24.4	586.7	0.5	0.50	0.50	
01/STR/05	PRE-US 35	8.67	9.15	0.48	2534	86630	57633	9626	1.50	9625.6	97	866.3	1.50	401.1	266.8	23.5	563.2	0.5	0.50	0.50	
02/S5K/05	PRE-US 35	9.15	9.65	0.50	2640	85665	59405	9518	1.50	9518.3	96	856.7	1.50	396.6	275.0	24.4	586.7	0.5	0.50	0.50	
02/S5K/05	PRE-US 35	9.65	10.01	0.36	1901	54032	43107	6004	1.50	6003.6	61	540.3	1.50	250.1	199.6	17.6	422.4	0.4	0.28	0.28	
TOTALS CARRIED TO GENERAL SUMMARY								X	140891	1419	8454	X	5766	4210	359	8612	7	7.28	7.28	X	

PRE-US 35-2.62

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PAVEMENT QUANTITIES

DESIGN AGENCY



DESIGNER

JED

REVIEWER

JDO 6/12/23

PROJECT ID

100648

SHEET TOTAL

P.6 19

PART	COUNTY	ROUTE	LOG POINT		SIDE	ITEM 202			ITEM 606			ITEM 626	NOTES
						GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	BRIDGE TERMINAL ASSEMBLY REMOVED	GUARDRAIL, TYPE MGS WITH LONG POSTS	BRIDGE TERMINAL TYPE 4, AS PER PLAN	ANCHOR ASSEMBLY, MGS TYPE E	BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)	
			FROM	TO		FT	EACH	EACH	FT		EACH	EACH	
01/STR/05	PRE	35	3.45	3.46	RIGHT	13.0	1		50.0		1	2	REMOVE THE TYPE A ANCHOR AND 12.5' EXISTING GUARDRAIL ON THE RADIUS. REPLACE WITH 50' MGS LONG POST GUARDRAIL (12.5' ON THE RADIUS) AND A MGS TYPE E ANCHOR EXTENDING ALONG MURRAY ROAD. FOOTPRINT WILL INCREASE ROUGHLY 62.5'.
04/STR/04	PRE	35	8.18		LEFT	25.0	1			1			REMOVE AND REPLACE THE BRIDGE TERMINAL ASSEMBLY DUE TO THE CULVERT OUTLET RECONSTRUCTION.
04/STR/04	PRE	35	8.18		LEFT	25.0	1			1			
04/STR/05	PRE	35	6.20	6.20	RIGHT	75.0	1		50.0		1	2	MATCH EXISTING FOOTPRINT
03/STR/13	PRE	35	8.61		LEFT	100.0	1	1	50.0	1	1	2	STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT
03/STR/13	PRE	35	8.61		LEFT	100.0	1	1	50.0	1	1	2	STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT
03/STR/13	PRE	35	8.61		RIGHT	100.0	1	1	50.0	1	1	2	STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT
03/STR/13	PRE	35	8.61		RIGHT	100.0	1	1	50.0	1	1	2	STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT
02/S5K/05	PRE	35	9.59	9.59	LEFT	75.0	1		50.0		1	2	MATCH EXISTING FOOTPRINT
02/S5K/05	PRE	35	9.59	9.59	RIGHT	75.0	1		50.0		1	2	MATCH EXISTING FOOTPRINT
TOTALS CARRIED TO GENERAL SUMMARY						688	10	4	400		8	16	

GUARDRAIL QUANTITIES

DESIGN AGENCY



DESIGNER

JED

REVIEWER

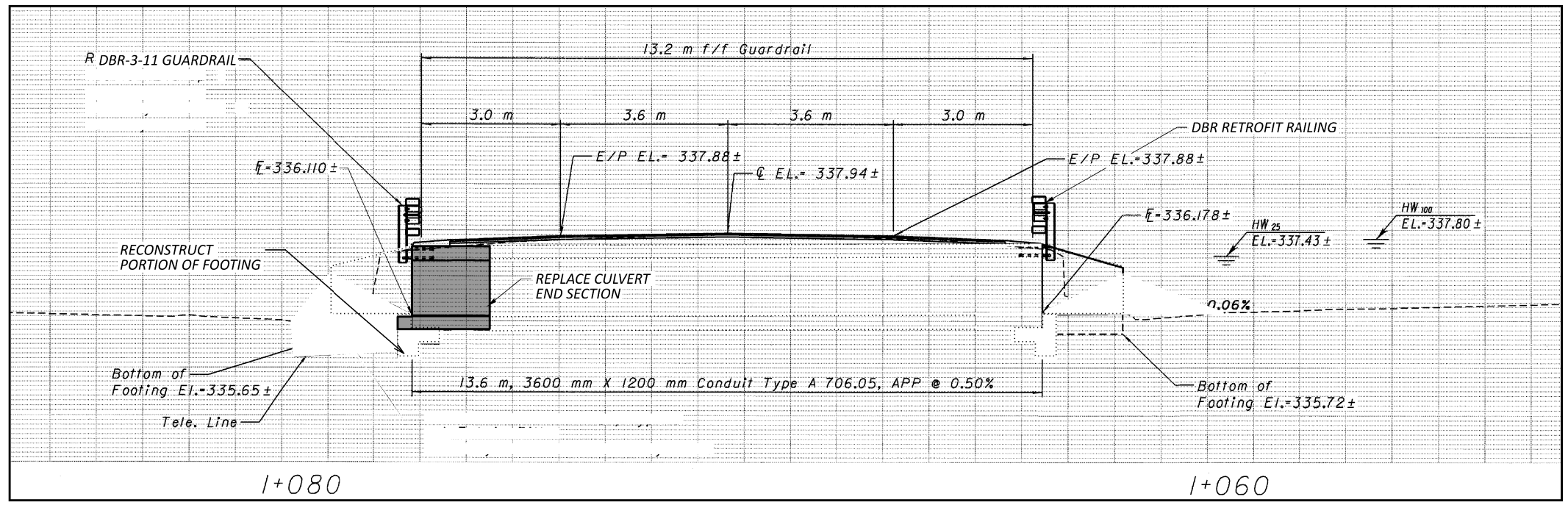
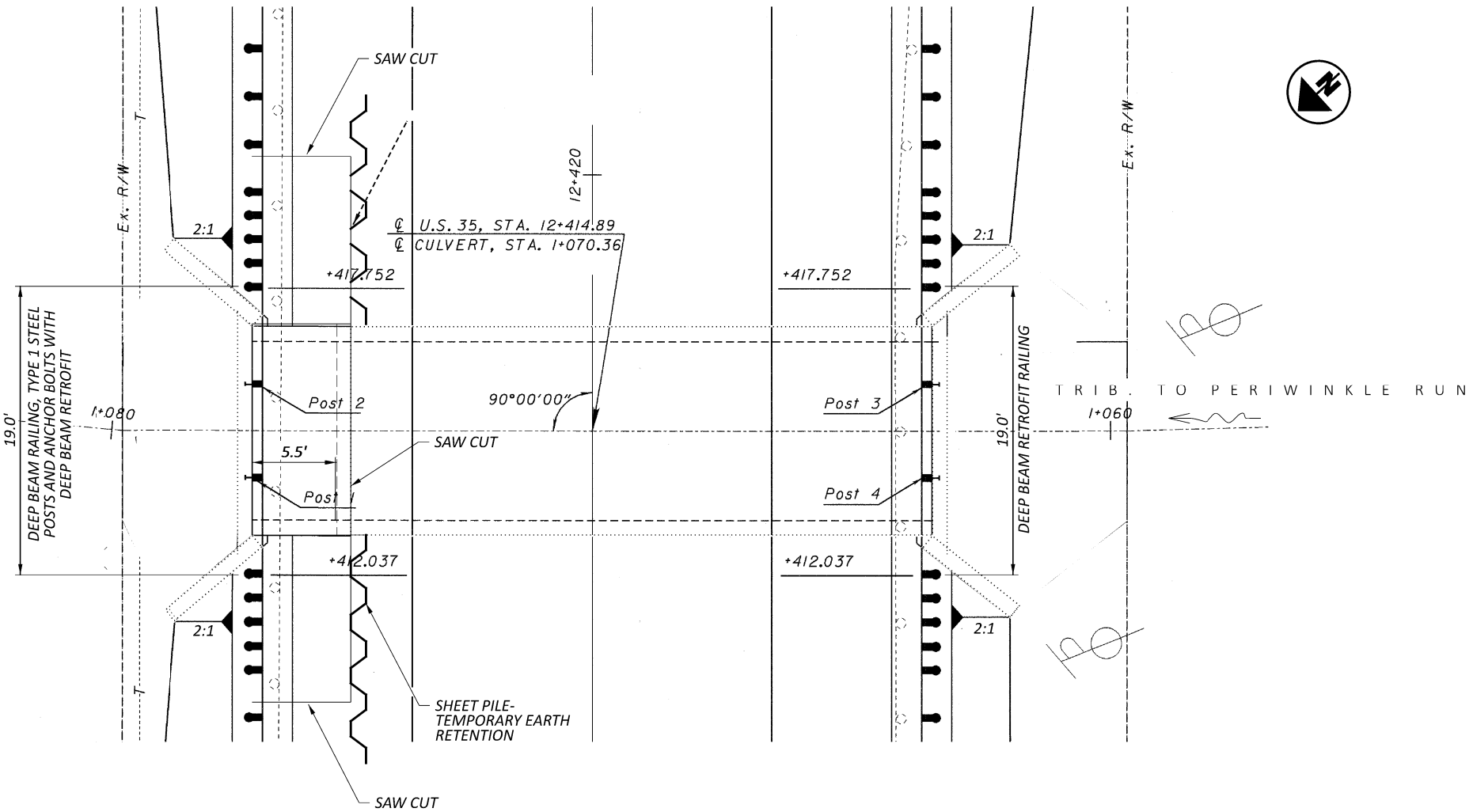
JDO 6/12/23

PROJECT ID

100648

SHEET TOTAL

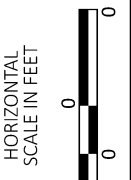
P.9 20



CULVERT PROFILE

HYDRAULIC DATA

DRAINAGE AREA = 132 Hectares			
Q (25) =	8.4 M ³ /S	V (25) =	3.8 M/S
Q (100) =	11.2 M ³ /S	V (100) =	4.0 M/S



EXISTING STRUCTURE

TYPE: 12' X 4' PRECAST REINFORCED CONCRETE BOX
 SPANS: 11.8 FT F/F CULVERT
 ROADWAY: 43.3 FT F/F GUARDRAIL
 LOADING: HS 20-44 AND THE ALTERNATE MILITARY LOADING
 SKEW: TANGENT
 WEARING SURFACE: BITUMINOUS CONCRETE
 ALIGNMENT: TANGENT
 CROWN: 0.016
 STRUCTURE FILE NUMBER: 6800130
 DATE BUILT: 1996
 DISPOSITION: OUTLET END BOX CULVERT SECTION TO BE REPLACED

PROPOSED WORK

1. REPLACE THE EAST SECTION OF PRECAST BOX CULVERT WITH A NEW PRECAST BOX CULVERT SECTION.
2. REPAIR REMAINING PORTIONS OF CULVERT INTERIOR WHERE SPALLING HAS OCCURRED WITH TROWELABLE MORTAR PER SS 843.
3. SEAL CULVERT ENDS AND WINGWALLS CONCRETE SURFACES WITH EPOXY URETHANE SEALER PER CMS 512.
4. RETROFIT THE RAILING ON THE WEST SIDE PER DBR-3-11. RAILING ON THE EAST SIDE SHALL BE NEW. UPGRADE APPROACH GUARDRAIL AS NECESSARY TO MEET MGS SPECIFICATIONS.
5. MILL AND FILL THE SURFACE COURSE ONLY ON THE STRUCTURE.

NOTES

1. VARIOUS INFORMATION ON THE CULVERT PLAN, CULVERT PROFILE AND HYDRAULIC DATA TABLE ON THIS SHEET WERE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. SOME CULVERT PLAN DIMENSIONS ARE SHOWN IN METRIC UNITS.

SITE PLAN
 BRIDGE No.: PRE-35-8.18
 US 35 OVER TRIBUTARY TO PERIWINKLE RUN

SFN
6800130

DESIGN AGENCY



DESIGNER: GTF
CHECKER: JED

REVIEWER

JDO 6/12/23

PROJECT ID

100648

SUBSET TOTAL

1 3

SHEET TOTAL

P.11A 19

GENERAL NOTES

DESIGN SPECIFICATIONS: THIS STANDARD DRAWING CONFORMS TO "LRFD BRIDGE DESIGN SPECIFICATION" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND THE 2020 OHIO BRIDGE DESIGN MANUAL.

DESIGN DATA: THE FOLLOWING DESIGN DATA IS ASSUMED:

CONCRETE - COMPRESSIVE STRENGTH 4000 PSI - FOOTING
COMPRESSIVE STRENGTH 4500 PSI - CULVERT

REINFORCING STEEL - GRADE 60 MINIMUM YIELD STRENGTH
60,000 PSI (ALL REINFORCING SHALL BE EPOXY COATED)

DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN
INSTALL GALVANIZED DOWEL BARS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR BLACK REBAR PUBLISHED IN THE ICC-ES REPORTS LISTED BELOW. THE HOLES FOR THE ADHESIVE ANCHORS SHALL BE DRILLED WITH A HAMMER DRILL AND CARBIDE BIT. PRIOR TO THE INSTALLATION OF THE ANCHORS, THE HOLES SHALL BE CLEANED AND DRIED IN A MANNER CONSISTENT WITH THE MANUFACTURER'S REQUIREMENTS FOR DRY CONCRETE.

SELECT FROM ONE OF THE FOLLOWING APPROVED PRODUCTS:

HILTI HIT-HY 200 ADHESIVE ANCHORS
(ICC-ES REPORT ESR-3187)

DEWALT PURE110+ EPOXY ADHESIVE ANCHOR SYSTEM
(ICC-ES REPORT ESR-3298)

SIMPSON STRONG-TIE SET-3G EPOXY ADHESIVE ANCHORS
(ICC-ES REPORT ESR-4057)

ATC ULTRABOND HS-1CC ADHESIVE ANCHOR SYSTEM
(ICC-ES REPORT ESR-4094)

THE MANUFACTURER'S INSTALLATION INSTRUCTION PUBLISHED IN THE ICC-ES REPORTS FOR ACCEPTABLE PRODUCTS ARE AVAILABLE AT:

<https://icc-es.org/evaluation-report-program/>

ITEM 611 - CONDUIT, MISC.: GRANULAR STRUCTURAL BACKFILL, 703.11

STRUCTURAL BACKFILL TYPE 1 CONSISTING OF CRUSHED CARBONATE STONE, THAT MEETS THE GRADATIONS OF ITEM 304 SHALL BE PLACED AS SHOWN IN THE DETAIL BELOW. QUANTITY SHALL BE BASED ON A TRENCH LENGTH OF 92 FEET MEASURED ALONG THE CENTERLINE OF THE CULVERT. PAYMENT FOR STRUCTURAL BACKFILL TYPE 1 AND THE EXCAVATION REQUIRED FOR THE PLACEMENT OF THE STRUCTURAL BACKFILL SHALL BE INCLUDED IN ITEM 611 FOR PAYMENT.

NEW CULVERT BOX SECTION:

POROUS BACKFILL WITH FILTER FABRIC, AS PER PLAN 1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

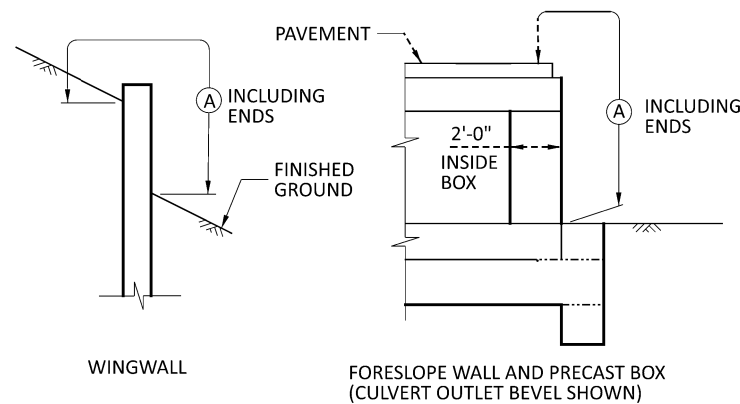
SEALING OF CULVERT BOX FACES AND WINGWALLS: ALL EXPOSED CULVERT BOX FACES AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES.

PREFORMED EXPANSION JOINT FILLER: PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALL. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER.

WATERPROOFING: TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

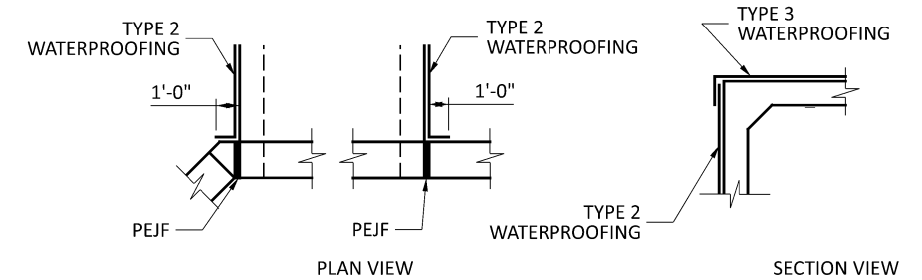
SINCE PAVEMENT WILL BE PLACED DIRECTLY ON TOP OF THE NEW CULVERT SECTION, TYPE 3 WATERPROOFING, PER CMS 512.10 AND 711.29 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CULVERT SECTION AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 3 WATERPROOFING.

EXTEND TYPE 2 AND 3 WATERPROOFING 1 FOOT BEYOND THE SECTION JOINT OF NEW AND EXISTING SECTIONS.



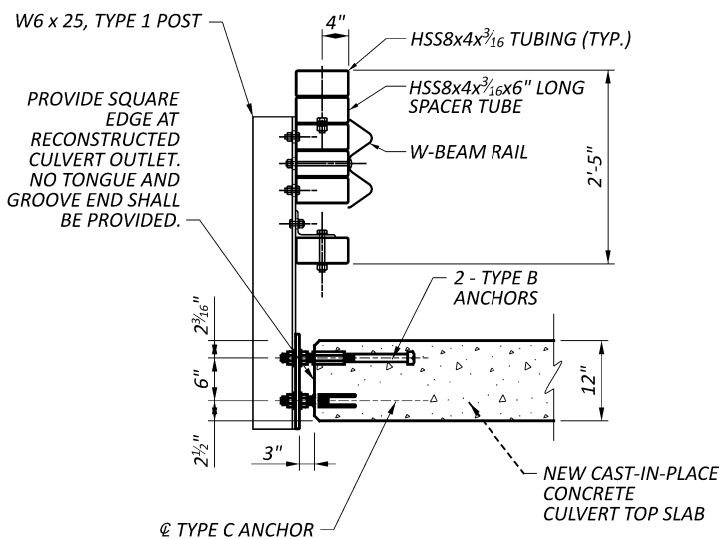
LIMITS OF ITEM 512-SEALING CONCRETE SURFACES

(A) - SEAL ENTIRE CONCRETE SURFACE AREA



WATERPROOFING DETAILS

BASIS OF PAYMENT: ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE FOOTING, CUTOFF WALL, WINGWALLS AND FORESLOPE WALL SHALL BE INCLUDED WITH ITEM 511 - CLASS QC1 CONCRETE, RETAINING/WINGWALL - INCLUDING FOOTING). PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.



CULVERT TOP - PARTIAL TRANSVERSE SECTION

SEE DBR-3-11 AND DBR-2-73 FOR ADDITIONAL DETAILS

ESTIMATED QUANTITIES (PLAN SPLIT 04/STR/04)

ITEM	ITEM EXT	TOTAL	UNIT	DESCRIPTION
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED
202	23000	11	SQ. YD.	PAVEMENT REMOVED
503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING
503	21300	LUMP		UNCLASSIFIED EXCAVATION
509	10001	1646	LB.	EPOXY COATED STEEL REINFORCEMENT
510	10001	13	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN
511	46510	0.5	CU. YD.	CLASS QC1 CONCRETE, FOOTING
511	33412	0.5	CU. YD.	CLASS QC2 CONCRETE, SUPERSTRUCTURE
512	74001	18	SQ. YD.	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
512	10101	36	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	33001	9	SQ. YD.	TYPE 2 WATERPROOFING, AS PER PLAN
512	33011	32	SQ. YD.	TYPE 3 WATERPROOFING, AS PER PLAN
516	13600	13	SQ. FT.	1" PREFORMED EXPANSION JOINT FILLER
517	72300	18.75	LIN. FT.	RAILING (DEEP BEAM RAILING WITH STEEL TUBULAR BACKUP AND TYPE 2 STEEL POSTS AND ANCHOR BOLTS)
517	75600	18.75	LIN. FT.	DEEP BEAM BRIDGE RETROFIT RAILING
518	21201	3.24	CU. YD.	POROUS BACKFILL WITH GEOTEXTILE FABRIC
843	50000	3.24	SQ. YD.	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR
878	25000	LUMP		INSPECTION AND COMPACTION TESTING OF UNBOUNDED MATERIALS

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS	
	TOTAL				A	B
REINFORCING STEEL LIST						
X501	14	10'-0"	146	STR		
X502	22	5'-2"	119	STR		
X602	28	12'-9"	536	STR		
Y501	14	4'-6"	66	STR		
Y601	28	17'-0"	715	2	5'-10"	5'-8"
F501	15	2'-4"	37	1	0'-8"	1'-10"
F502	2	12'-9"	27	STR		
SUB-TOTAL			1,646			

BENDING DIAGRAMS	
TYPE-1	TYPE-2

PRE-US 35-2.62

MODEL: Sheet_SurvFt_PAPER SIZE: 17x11 (in.) DATE: 8/30/2023 TIME: 8:52:40 AM USER: rdavis4
pvc:\hiodot-pw.bentley.com\hiodot-pw-02\Documents\01_Active Projects\District 08\Prebids\100648\100-Engineering\Structures\SFN_6800130_Sheets\100648_SFN_6800130_SNOO1.dgn

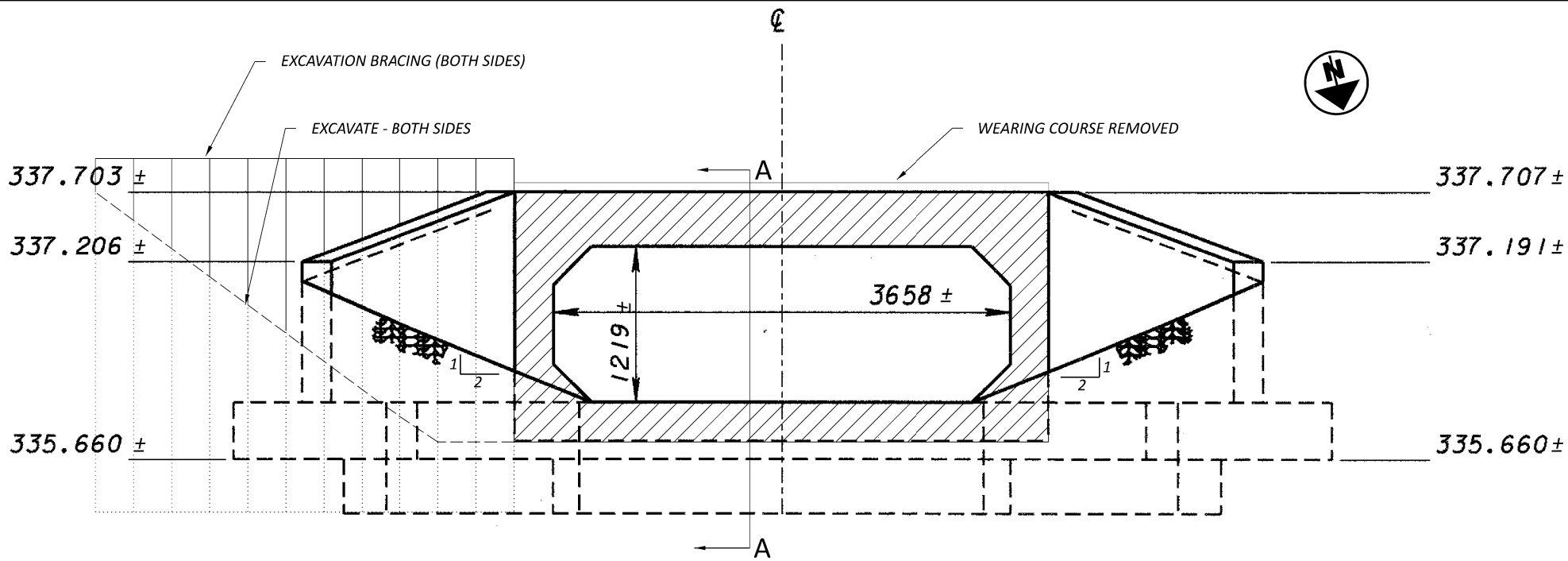
STRUCTURE NOTES
BRIDGE No.: PRE-35-8.18
US 35 OVER TRIBUTARY TO PERIWINKLE RUN

SFN
6800130
DESIGN AGENCY



DESIGNER
GTF
REVIEWER
CAH 6/12/23
PROJECT ID

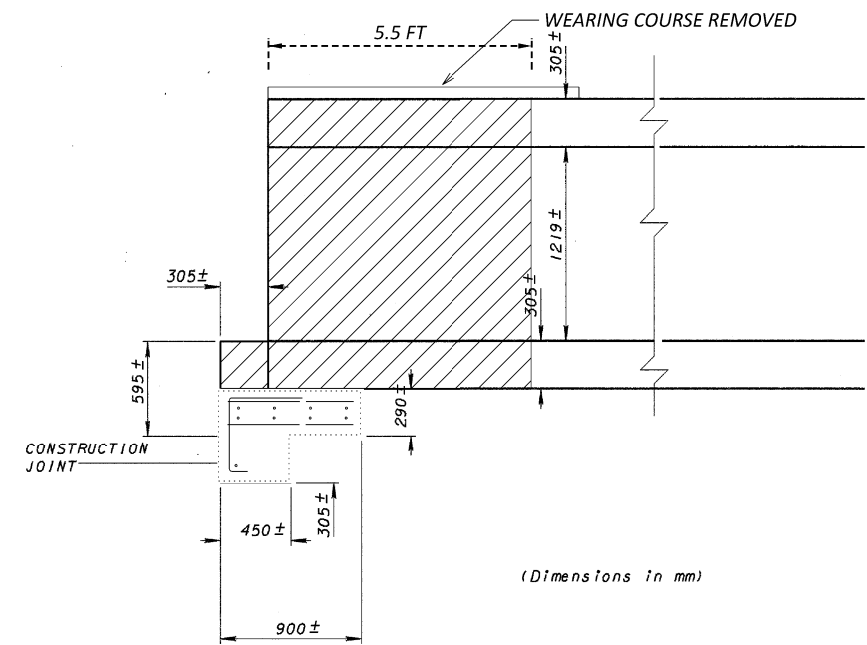
100648	TOTAL
2	3
SHEET	TOTAL
P.11B	19



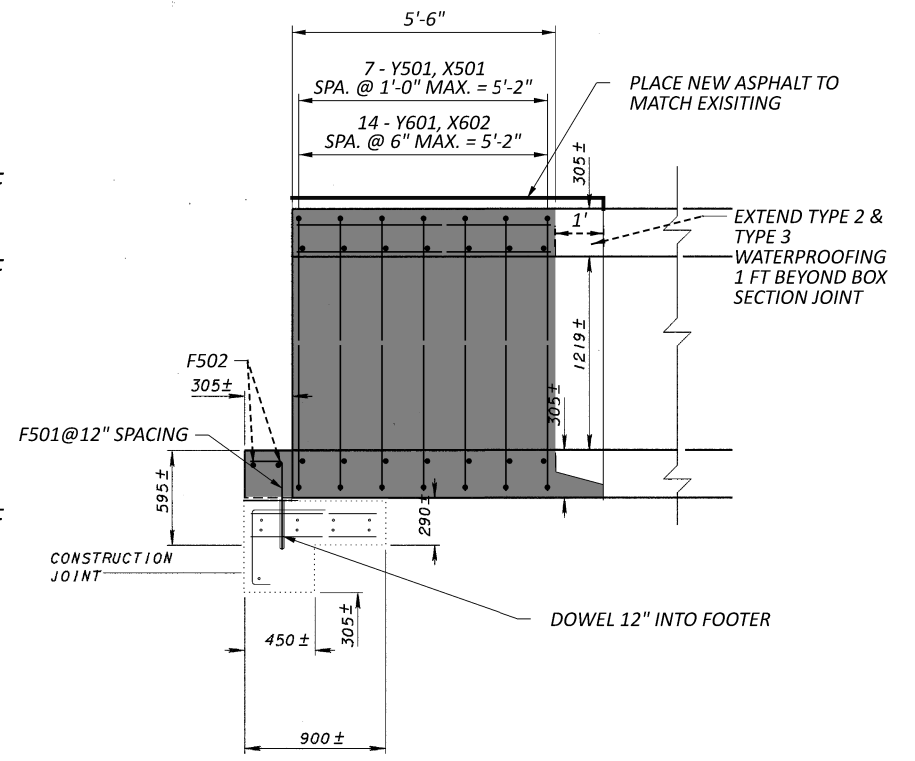
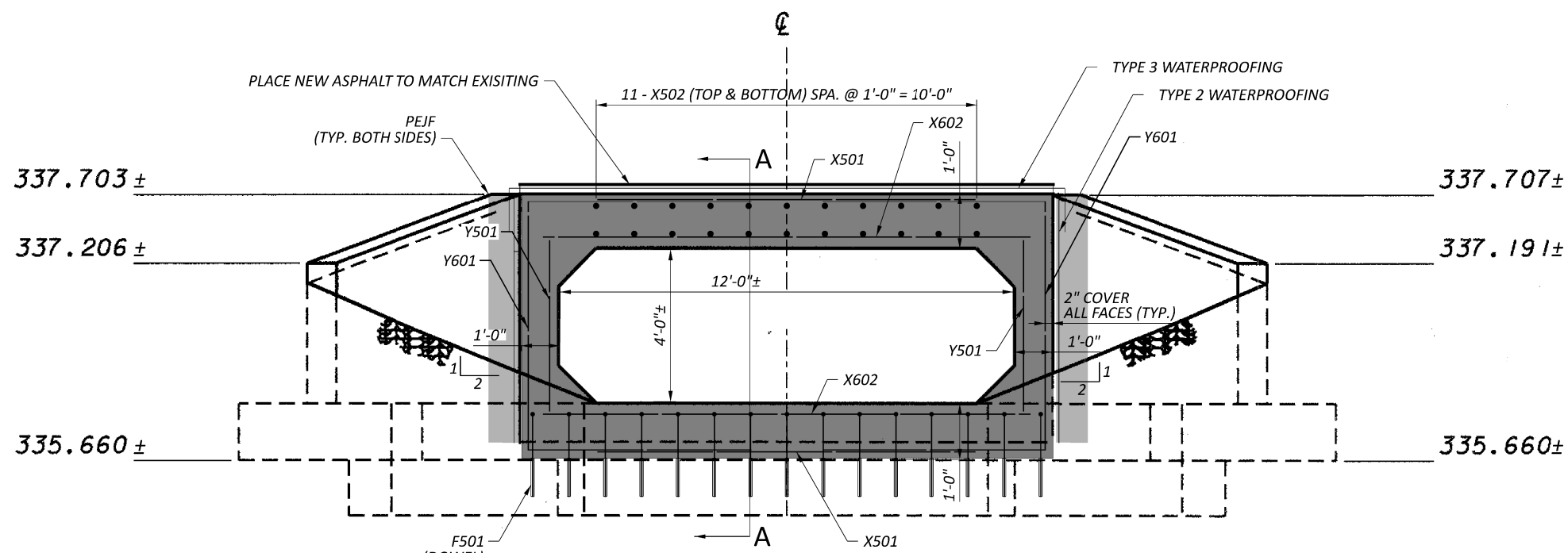
LEGEND

REMOVE

NEW BOX AND CONCRETE



OUTLET SECTION A-A REMOVAL



OUTLET SECTION A-A CONSTRUCTION

- NOTES**
- EXISTING DIMENSION SHOWN ON THIS SHEET ARE IN METRIC UNITS. PROPOSED DETAILS AND DIMENSIONING ARE IN STANDARD UNITS.
 - ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE PORTION OF EXISTING CULVERT TO REMAIN IN SERVICE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

STRUCTURE DETAILS
BRIDGE No.: PRE-35-8.18
US 35 OVER TRIBUTARY TO PERIWINKLE RUN

SFN	6800130
DESIGN AGENCY	
DESIGNER	GTF
CHECKER	JED
REVIEWER	
CAH	6/12/23
PROJECT NO.	100648
SUBSET	3
TOTAL	3
SHEET	P.12
TOTAL	19