SEE SHEET 2

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

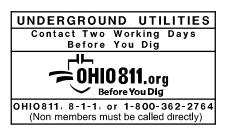
CURRENT ADT (2024)	_ 5700
DESIGN YEAR ADT (2036)	
DESIGN HOURLY VOLUME (2036)	
DIRECTIONAL DISTRIBUTION	
TRUCKS (24 HOUR B&C)	_ 12%
DESIGN SPEED	_ 60
LEGAL SPEED	_ 55
DESIGN FUNCTIONAL CLASSIFICATION:	
04 MINOR ARTERIAL (RURAL), 04 MINOR ARTERIAL (URBAN)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE



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

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

PRE-US 35-2.62

JACKSON, WASHINGTON TOWNSHIP

PREBLE COUNTY

NONE

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.

INDEX OF SHEETS:

		20
TITLE SHEET	1	
LOCATION MAP	2	THE
GENERAL NOTES	3	TRA
MAINTENANCE OF TRAFFIC	4	THE
GENERAL SUMMARY	5	SPE
PAVEMENT CALCULATIONS	6	THI
PAVEMENT MARKINGS	7	
GUARDRAIL QUANTITIES	8	
CURB RAMP QUANTITIES	9	
CURB RAMP DETAILS	10	I HE
STRUCTURES		THE
PRE-US 35-8.17	11A,11B-12	THE
PRE-US 35-8.60	13	PR
PLAN INSERT SHEETS	14-19	BE



		ST/	ANDARI	CONSTRUCTION		EMENTAL CATIONS	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		
		TC-61.30	7/19/19			872	1/21/22		ENG
MGS-1.1	7/16/21	TC-64.10	1/20/23			874	4/17/20		
MGS-2.1	1/19/18	TC-65.10	1/17/14			875	1/18/19		SHEE
		TC-65.11	7/15/22			878	1/21/22		
MGS-4.3	1/18/13	TC-71.10	4/26/23						1×1
MGS-5.3	7/15/16								1 25/
									≣ ₊ (
RM-4.2	4/17/20								NIX PROPERTY
									-70
DBR-2-73	7/19/02								115
DBR-3-11	7/15/11								
PCB-91	7/17/20								



FEDERAL PROJECT NUMBER

E150(963)

RAILROAD INVOLVEMENT

PROJECT DESCRIPTION

EARTH DISTURBED AREAS

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

=1.78 ACRES =N/A ACRES *ROUTINE MAINTENANCE PROJECT

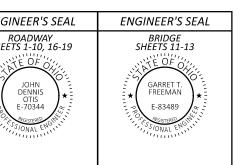
2023 SPECIFICATIONS

HE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF RANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN HE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL PECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN HIS IMPROVEMENT.

HEARBY APPROVE THESE PLANS AND DECLARE THAT HE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE HE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT ROVISIONS FOR THE MAINTENANCE AND SAFETY WILL BE AS SET FORTH ON THE PLANS AND ESTIMATE.

District Deputy Director

ock Marchbanks, PhD Director, Department of Transportation



TITLE SHEET

SIGN AGENC



PRE-US 35-2.62

MODEL: Sheet_SurvFt_PAPERSIZE: 17x11 (in.) DATE: 8/30/2023 TIME: 8:22:38 AM_USER: jdavis4 pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Preble\100648400-Engineering\Roadway\Sheets\100648_LM001.a



CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER UNLESS AUTHORIZED BY THE ENGINEER". THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DIRECTION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

PERMANENT PAVEMENT MARKINGS

THE CONTRACTOR SHALL REFERENCE ALL PAVEMENT MARKINGS INCLUDING AUXILIARY PAVEMENT MARKINGS BEFORE THE START OF THE RESURFACING OPERATION. THIS WILL BE NECESSARY TO ASSURE THE CORRECT PLACEMENT OF MARKINGS IN ORIGINAL LOCATIONS (EXCEPT WHERE NOTED). FOR CENTER LINE MARKINGS, THE CONTRACTOR SHALL INSTALL THE PASSING/NO PASSING ZONE MARKINGS ACCORDING TO THE CURRENT CENTER LINE LOGS AVAILBLE AT

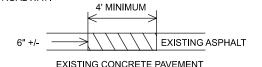
http://www.dot.state.oh.us/Divisions/Operations/Traffic/miscellaneous/ Pages/CenterlinePassingandNoPassingZoneLogs.aspx PAYMENT FOR THIS OPERATION SHALL BE INCLUDED WITH EACH RESPECTIVE PAVEMENT MARKING ITEM.

ITEM 623- CONSTRUCTION LAYOUT STAKES, AS PER PLAN

PRIOR TO THE START OF ROADWAY OPERATION. THE CONTRACTOR SHALL REFERENCE THE LENGTH OF THE PROJECT ON BOTH SIDES OF THE ROADWAY, IN A MANNER SATISFACTORY TO THE ENGINEER. THE PAVEMENT SHALL BE REFERENCED IN 500' FEET INCREMENTS, OR IN INCREMENTS ACCEPTABLE TO THE ENGINEER, IN A SEMIPERMANENT CONDITION.

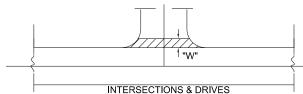
ITEM 253- PAVEMENT REPAIR (A)

AN ESTIMATED QUANTITY OF 750 CU YDS OF ITEM 253-PAVEMENT REPAIR HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. THIS OPERATION SHALL BE PERFORMED BEFORE PAVEMENT PLANING OF ROADWAY.



EXISTING DETERIORATED ASPHALT SHALL BE REMOVED TO A MAXIMUM DEPTH OF 6" INCHES OR AS DIRECTED BY THE ENGINEER AND REPLACED WITH ITEM 301, ASPHALT CONCRETE BASE. THE 301 SHALL BE COMPACTED AS PER 401.15 AND IN APPROXIMATELY EQUAL LAYERS, DO NOT DISTURB EXISTING CONCRETE PAVEMENT. THE LOCATIONS AND SIZE OF THE REPAIRS SHALL BE DETERMINED BY THE ENGINEER.

INTERSECTIONS AND DRIVES



INTERSECTION AND DRIVES QUANTITIES ARE INCLUDED IN THE ASPHALT CONCRETE QUANTITIES. INTERSECTION QUANTITIES HAVE BEEN ESTIMATED AT 15' MEASURED FROM EDGE OF PAVED SHOULDER, DRIVE QUANTITIES HAVE BEEN ESTIMATED AT 3' "W" MEASURED FROM EDGE OF PAVED SHOULDER.

PERFORM WORK PER SPECIFIED OFFSET LIMITS UNLESS THERE IS AN EXISTING JOINT LOCATED CLOSER TO THE EDGE OF PAVED SHOULDER, IN WHICH CASE END WORK AT SAID JOINT, EXCEPT WHERE NOTED BELOW.

ITEM 254- PAVEMENT PLANING, ASPHALT CONCRETE

THE PLANING SHALL BE SCHEDULED SO AS TO BE COVERED BY THE SURFACE COURSE ON US 35

PRIOR TO REOPENING THE LANE TO TRAFFIC. THE COST OF THE ABOVE ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE ITEM. A DISINCENTIVE IN THE AMOUNT OF \$3,600 SHALL BE ASSESSED FOR EACH DAY, OR PORTION THEREOF, A PLANED SURFACE IS OPEN TO TRAFFIC.

ADJUST DEPTH OF PLANING AT NECESSARY BRIDGE APPROACH SLABS. PLANE PAVEMENT TO PROVIDE SMOOTH TRANSITIONS AT BRIDGE(S).

ITEM 611 - MANHOLE ADJUSTED TO GRADE

THIS WORK SHALL CONSIST OF ADJUSTING MANHOLES TO GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 611 - MANHOLE ADJUSTED TO GRADE...... 2 EACH.

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE

THIS WORK SHALL CONSIST OF ADJUSTING CATCH BASINS TO GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE 9 EACH

GUARDRAIL INSTALLATION

THIS PROJECT REQUIRES THE INSTALLATION OF NEW GUARDRAIL POSTS. SURVEY WORK HAS NOT BEEN PERFORMED EVERYWHERE ON THIS PROJECT, NOR HAVE THE UTILITY LOCATIONS BEEN CONFIRMED IN THE FIELD. IN ADDITION TO CMS 105.07, IF, DURING THE COURSE OF INSTALLING ANY NEW GUARDRAIL COMPONENT, IT IS DETERMINED THAT A UTILITY CONFLICT MAY RESULT. THE CONTRACTOR IS TO NOTIFY THE PROJECT ENGINEER IMMEDIATELY, UTILITIES ARE NOT TO BE RELOCATED AS A RESULT OF THIS OPERATION. ADJUSTMENTS TO THE PROPOSED GUARDRAIL WILL ACCOMMODATE THE EXISTING UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE GUARDRAIL VIA MEANS THAT WOULD BE COMPLIANT WITH THE IMPACTED UTILITY'S SAFETY GUIDELINES AS WELL AS STILL MEETING ODOT'S DESIGN CRITERIA. ANY MINOR ADJUSTMENTS MADE TO THE PROPOSED GUARDRAIL INSTALLATIONS SHALL BE INCIDENTAL TO PAY ITEM 606.

ITEM 202 - ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN

WHERE DESIGNATED, EXISTING ANCHOR ASSEMBLIES INCLUDING ALL POST AND HARDWARE SHALL BE REMOVED. THIS ITEM SHALL ALSO INCLUDE THE REMOVAL OF THE ENTIRE CONCRETE ANCHOR AND CONCRETE ENCASEMENT. ALL HOLES LEFT AFTER REMOVAL OF ASSEMBLIES AND POSTS SHALL BE FILLED WITH GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER. PAYMENT SHALL INCLUDE ALL NECESSARY LABOR AND EQUIPMENT REQUIRED TO PERFORM THE INDICATED ABOVE.

CONSTRUCTION NOISE

THE PROJECT WILL COMPLY WITH ALL LOCAL NOISE ORDINANCES

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED

WITH REBOUNDABLE RETRO REFLECTIVE SHEETING, PER CMS 730.191.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE

THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E. EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

CULVERT PLAN DETAILS

SOME CULVERT PLAN DETAILS ARE IN METRIC UNITS

ITEM 606 BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN THIS PAY ITEM SHALL INCLUDE THE COST TO EURNISH AND INSTALL ALL GUARDRAIL COMPONENTS (NORMAL AND EXTRA) OF THE 25' LONG BRIDGE TERMINAL ASSEMBLY, TYPE 4 AS SEEN ON THE PLAN INSERT SHEET

ITEM 202 - BRIDGE TERMINAL ASSEMBLY REMOVED

DEEP BEAM BRIDGE RETROFIT RAILING, AS PER PLAN

AND W-RAIL SHALL BE REPLACED.

RAIL, APP FOR PAYMENT.

THIS PAY ITEM IS TO INCLUDE REMOVAL OF ALL EXTRA GUARDRAIL COMPONENTS IN EXCESS OF NORMAL GUARDRAIL WITHIN THE LIMITS OF THE BRIDGE TERMINAL ASSEMBLY

RETROFIT THE EXISTING BRIDGE RAIL ON THE BRIDGGE PER DBR-3-11.

IN ADDITITION TO WHAT IS REQUIRED BY STANDARD DRAWING

THE EXISTING POST MAY BE RE-USED, BUT THE TUBLAR BACK-UP

PAYMENT FOR THE MATERIALS AND LABOR ASSOCIATED WITH THE

WORK STATED ABOVE SHALL BE INCLUDED IN ITEM 517-DEEP BEAM

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

PL
_ FL
A١
111
IT

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

THE PWL CALCULATOR, LOCATED ON THE ODOT WEBSITE AT THE OFFICE OF CONSTRUCTION ADMINISTRATION, WILL BE USED TO DETERMINE THE LOT PWL AND THE LOT AASHTO PAY FACTORS THE DEPARTMENT WILL DETERMINE THE PAY FACTOR FOR EACH LOT CORED BY THE FOLLOWING TABLES.

442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), PWL, 2024, AS PER PLAN

ALL REQUIREMENTS OF C&MS ITEM 442 APPLY EXCEPT AS SHOW.

DENISTY ACCEPTANCE - FOLLOW THE REQUIREMENTS OF 446 DENSITY ACCEPTANCE, EXCEPTS AS MODIFIED BELOW.

OBTAIN 6-INCH DIAMETER CORES FOR EACH LOT .

LOWER SPECIFICATION LIMIT	SURFACE WITH 3 JOINT CORES PAY FACTOR CRITERIA	PAY FACTOR (PF)
	IF AVE DENSITY IS ≥ 92.4% AND PWL ≥ 80	PF = 1 OR AASHTO OR WHICHEVER IS GREATER
92%	IF 80 > PWL > 50	AASHTO PF
	IF PWL ≤ 50	REMOVE AND REPLACE
	IF AVE DENSITY IS ≥ 93% AND PWL ≥ 80	PF = 1 OR AASHTO OR WHICHEVER IS GREATER
92.6%	IF 80 > PWL > 50	AASHTO PF
	IF PWL ≤ 50	REMOVE AND REPLACE
	IF AVE DENSITY IS ≥ 91.4% AND PWL ≥ 80	PF = 1 OR AASHTO OR WHICHEVER IS GREATER
91%	IF 80 > PWL > 50	AASHTO PF
	IF PWL ≤ 50	REMOVE AND REPLACE
	IF AVE DENSITY IS ≥ 92% AND PWL ≥ 80	PF = 1 OR AASHTO OR WHICHEVER IS GREATER
91.6%	IF 80 > PWL > 50	AASHTO PF
	IF PWL ≤ 50	REMOVE AND REPLACE

PROFILE AND ALIGNMENT

LACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT ND PROFILE OF THE EXISTING PAVEMENT.

TEM 621- RAISED PAVEMENT MARKINGS

ITEM 621- RPM, Y/Y..... 554 FA

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY: ITEM 621- RPM .554 EA

ITEM 621- RPM REMOVED..... ...554 EA



100648

P.3 19

MAINTENANCE OF TRAFFIC

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE
ITEM DURATION OF NOTICE DUE TO
CLOSURE PERMITS & PIO
RAMP & >= 2 WEEKS 21 CALENDAR DAYS
ROAD PRIOR TO CLOSURE
CLOSURES
> 12HOURS 14 CALENDAR DAYS
& < 2 WEEKS PRIOR TO CLOSURE
< 12 HOURS 4 CALENDAR DAYS
PRIOR TO CLOSURE
LANE >= 2 WEEKS 14 CALENDAR DAYS
CLOSURES & PRIOR TO CLOSURE
RESTRICTIONS
<pre>< 2 WEEKS 5 BUSINESS DAYS</pre>
PRIOR TO CLOSURE
START OF 14 CALENDAR DAYS
CONSTRUCTION & N/A PRIOR TO
TRAFFIC PATTERN IMPLEMENTATION
CHANGES
ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE
PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO
BE REPORTED TO THE PROJECT ENGINEER USING THE
NOTIFICATION TIME TABLE.
CONTACT THE FOLLOWING:
DOT.D08.PIO@DOT.OHIO.GOV

DOT.D08.PIO@DOT.OHIO.GOV DISTRICT PERMIT SECTION BY EMAIL AT D08.PERMITS@DOT.OHIO.GOV CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV

ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT ONE LANE OF TWO-WAY TRAFFIC USING FLAGGERS MAY BE MAINTAINED DURING WORKING HOURS, BY USE OF THE EXISTING PAVEMENT.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

NEW YEAR'S (OBSERVED)GENERAL/REGULAR ELECTION DAY ((NOV)TOTAL SOLAR ECLIPSE (4/8/24)THANKSGIVINGMEMORIAL DAYCHRISTMAS (OBSERVED)FOURTH OF JULY (OBSERVED)(OTHER HOLIDAY OR SPECIAL EVENT)LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY	6:00 AM WEDNESDAY THROUGH (THANKSGIVING ONLY) 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIRE-MENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$35 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOS-URES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCOR-DANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614- WORK ZONE MARKINGS

THE CONTRACTOR SHALL PLACE ALL WORK ZONE PAVEMENT MARKINGS OR PERMANENT MARKINGS UPON COMPLETION OF THE ASPHALT SURFACE COURSE PRIOR TO OPENING THE ROADWAY TO TRAFFIC.

THE FOLLOWING ESTIMATED QUANITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF PER C&MS 614.11.

SURFACE COURSE

ITEM 614-WORK ZONE CENTER LINE, CLASS I, 642 PAINT -ITEM 614-WORK ZONE EDGE LINE 6", CLASS III, 642 PAINT -ITEM 614-WORK ZONE STOP LINE, CLASS III, 642 PAINT -ITEM 614-WORK ZONE RAILROAD SYMBOL, CLASS III, 642 PAINT -

14.68 MILES 12 FEET 1 EACH

7.34 MILES

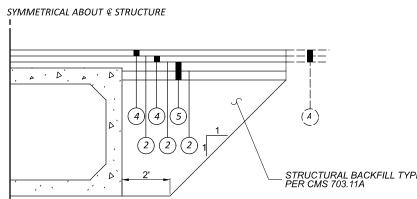
SURFACE COURSE (AFTER CENTER LINE RUMBLES INSTALLED) ITEM 614-WORK ZONE CENTER LINE. CLASS III. 642 PAINT -

7.34 MILES

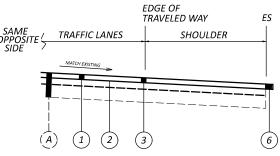
DESIGN AGENCY DESIGNER JED REVIEWER JDO 6/12/23 PROJECT ID 100648 SHEET TOTAL P.4 19	MAINTENEAMCE OF TRAFFIC	
JED REVIEWER JDO 6/12/23 PROJECT ID 100648 SHEET TOTAL	DESIGN AGENCY	
JED REVIEWER JDO 6/12/23 PROJECT ID 100648 SHEET TOTAL		
JDO 6/12/23 PROJECT ID 100648 SHEET TOTAL	JED	
SHEET TOTAL	JDO 6/12/23 PROJECT ID	
	SHEET TOTAL	

DESCRI	UNIT	GRAND	ITEM	ITEM		₹Г. 1	PAF	I		_	·	1.	HEET NUM	5		1
ROAD		TOTAL	EXT		04/STR/04	03/STR/13	02/S5K/05	01/STR/05	13	11	9	8	7	6	4	3
PAVEMENT REMOVED	SY	22	23000	202		22								22		
WALK REMOVED	SF	108	30000	202				108		,	108					
GUARDRAIL REMOVED	FT	688	38000	202	50	400	150	88				688				
ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	EACH	10	42001	202	2		6	2				10				
BRIDGE TERMINAL ASSEMBLY REMOVED	EACH	4	47000	202	2	2						4				
GUARDRAIL, TYPE MGS WITH LONG POSTS	FT	400	15100	606		100	200	100				400				
ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)	EACH	8	26150	606		2	4	2			i — — • •	400				
BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN	EACH	6	35141	606		6		2				6				
CURB RAMP	SF	108	52000	608		-		108			108	-				
EROSION C																
EROSION CONTROL	EACH	1,000	30000	832			100	900								
2241																
CATCH BASIN ADJUSTED TO GRADE	EACH	9	98630	611				9								9
MANHOLE ADJUSTED TO GRADE	EACH	2	99654	611				2								2
CONDUIT, MISC.;, GRANULAR STRUCTURAL BACKFILL, 703.11	СҮ	12	97600	611	12			2						12		2
, ,											t					
PAVEN																
PAVEMENT REPAIR, (A)	СҮ	750	02000	253			100	650								750
PAVEMENT REPAIR, (B)	CY	4	02000	253				4			4					
PAVEMENT PLANING, ASPHALT CONCRETE, 1.50"	SY	140,891	01000	254			15,522	125,369						140,891		
PATCHING PLANED SURFACE	SY	1,419 5	01600 56000	254 301			157	1,262						1,419 5		
ASPHALT CONCRETE BASE, PG64-22, (449)	CY	5	56000	301	5									5		
NON-TRACKING TACK COAT	GAL	8,458	20000	407	4		931	7,523			i — — – †			8,458		
ANTI-SEGREGATION EQUIPMENT	CY	4,210	00100	441			475	3,735			t			4,210		
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	СҮ	2	50000	441	2									2		
ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), PWL 202	СҮ	5,766	10021	442			647	5,119						5,766		
COMPACTED AGGREGATE	СҮ	359	10100	617			42	317						359		
SHOULDER PREPARATION	SY	8,612	20000	617			1,009	7,603						8,612		
WATER	MGAL	7	25000	617			1	6			i			7		
RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	MILE	7.34	43000	618			0.86	6.48						7.34		
LONGITUDINAL JOINT PREPARATION	MILE	7.34	21000	874			0.86	6.48						7.34		
TRAFFIC C																
RPM	EACH	554	00100	621			65	489								554
RAISED PAVEMENT MARKER REMOVED	EACH	554	54000	621			65	489								554
BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL	EACH	8	00110	626				8				8				
EDGE LINE, 6"	MILE	14.68	00104	644			1.72	12.96					14.68			
CENTER LINE	MILE	7.34	00300	644			0.86	6.48					7.34			
	FT	12	00500	644 644			12				┟────┦		12			
RAILROAD SYMBOL MARKING DOTTED LINE, 6"	EACH FT	1 600	01000 01510	644 644			1	600			i		1 600			
	FI	000	01510	044				000			 		000			
STRUCTURE REPAIR (SFN											 					
											t					
STRUCTURE OVER 20 FOOT SPAI																
	MILE	7.34	21100	614			0.86	6.48							7.34	
WORK ZONE CENTER LINE, CLASS I, 642 PAINT WORK ZONE CENTER LINE, CLASS III, 642 PAINT	MILE	7.34	21100	614			0.86	6.48			 				7.34	
WORK ZONE CENTER LINE, CLASS III, 642 PAINT WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	MILE	14.68	21350	614			1.72	12.96			 				14.68	
WORK ZONE STOP LINE, CLASS III, 642 PAINT	FT	14.03	26610	614			1.72	12.50			 				14.08	
WORK ZONE RAILROAD SYMBOL MARKING, CLASS III, 642 PAINT	EACH	1	32210	614			1				t				1	
INCIDEN																
MAINTAINING TRAFFIC		LS	11000	614	LUMP	LUMP	LUMP	LUMP								
MAINTAINING TRAFFIC CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN		LS	11000	614 623	LUMP	LUMP	LUMP	LUMP			i					
MOBILIZATION		LS	10001	623	LUMP	LUMP	LUMP	LUMP			 					
						- *					t					
											۱ <u> </u>					

CRIPTION	SEE SHEET NO.	
DADWAY		
	8	
	2	
	3	
DN CONTROL		
AINAGE		
	6	
VEMENT		→
		GENERAL SUMMARY
		ΣÌ
		Σ
		ר אר
		L ⊿
		ER
. 2024, AS PER PLAN, 12.5 MM	3	Z
		5
IC CONTROL		
SFN 6800130) SEE SHEET 11		
SPAN (SFN 6800165) SEE SHEET 13		
NCE OF TRAFFIC		
		DECIDAL CONTRACTOR
		DESIGN AGENCY
IDENTALS		
		DECIGNED
	3	DESIGNER JED
		REVIEWER
		PROJECT ID
		100648 SHEET TOTAL
		P.5 19







	PLAN SPLIT 04/STR/04	PRE-35-	FT	9 9 14 AVERAGE WIDTH	PAVEMENT AREA SQ YD 11 11	202 PAVEMENT REMOVED SQ YD	301 8" ASPHAI CONCRET BASE, PG6 22		4 ASPHALT SURFACE CC (449)	41 CONCRETE DURSE, TYPE 1		-35-8.18) 611 DNDUIT, MISC.:	-			
HALT		PRE-35-	FT 8.18 16 16 LS CARRIED	FT 6 6	SQ YD 11	PAVEMENT REMOVED SQ YD	8" ASPHAI CONCRET BASE, PG6	407 LT NON TRACKING TACK COAT @	4 ASPHALT SURFACE CC (449)	41 CONCRETE DURSE, TYPE 1		611	_			
HALT		PRE-35-	FT 8.18 16 16 LS CARRIED	FT 6 6	SQ YD 11	PAVEMENT REMOVED SQ YD	8" ASPHAI CONCRET BASE, PG6	LT NON TRACKING TACK COAT @	ASPHALT SURFACE CC (449).	CONCRETE DURSE, TYPE 1	CO	-				1
HALT	04/STR/04		8.18 16 16 LS CARRIED	6 6	11		22	0.00 GAL/30		PG64-22	BAG	JLAR STRUCTUR, CKFILL, 703.11	AL		NOTES	IES
HALT	04/STR/04		8.18 16 16 LS CARRIED	6 6	11			YD	THICK- NESS	ſ	THICK- NESS					E
	04/STR/04		8.18 16 16 LS CARRIED	6 6	11		CU YD	GAL	INCHES	CU YD	INCHES	5 CU YD	_			
HALT		ΤΟΤΑ	LS CARRIED		11	11	2	1.3	3.00	1		6		IT REPLACEMENT U		I ∩
HALT		ΤΟΤΑ		TO GE		11	2	1.3	3.00	1		6	PAVEMEN	IT REPLACEMENT D	OWNSTATION	Ιŭ
HALT					NERAL	22	5	4		2	\ge	12				PAVEMENT QUANTITIES
																AVI
H <u>:S</u> 	254 NT PLANING CONCRETE	PATCHING	407 NON TRACKIN TACK COAT @	з MM,		442 E SURFACE COUF PWL, 2024, AS P	ER PLAN	ANTI- SEGREGATION	COMPACTEI AGGREGATE, 1 DEPTH, 12"	L.5" SHOULD		WATER @ 20 GAL/CU YD	618 RUMBLE STRIPES, CENTER LINE	874 LONGITUDINAL JOINT	NOTES	
	60 V/D	SURFACE	0.09 GAL/SQ Y	TH	HICK- IESS	0111/0		EQUIPMENT	WIDTH				(ASPHALT CONCRETE)	PREPARATION		
	SQ YD	SQ YD	GAL	IN	CHES	CU YD		CU YD	CU YD	SQ YI	D	MGAL	MILES	MILES		
	11406.6	115	1026.6		.50	475.3		321.9	24.4	586.7		0.5	0.50	0.50	RUMBLES END 650' PRIOR TO CITY OF	
	10611.1 7262.8	107 73	955.0 653.7		50 50	442.1 302.6		285.7 286.5	24.4	586.7		0.5	0.50 0.50	0.50 0.50	EATON LIMITS	
	9408.9	95	846.8		.50	392.0		283.8	24.4	586.7	7	0.5	0.50	0.50		
	9132.2	92	821.9		.50	380.5		280.7	24.4	586.7		0.5	0.50	0.50		
1	9051.1 9246.1	91 93	814.6 832.2		1.50 1.50	377.1 385.3		279.6 288.0	24.4	586.7		0.5	0.50 0.50	0.50		
Т	11017.2	111	991.6	1	.50	459.1		290.8	24.4	586.7	7	0.5	0.50	0.50		
	9965.0	100	896.9		50	415.2		293.3	24.4	586.7		0.5	0.50	0.50		
+	9435.6 9581.7	95 96	849.2 862.4		50 50	393.1 399.2		288.0 283.5	24.4	586.7		0.5	0.50	0.50		
	9625.0	97	866.3			401.0		285.5	24.4	586.7		0.5	0.50	0.50		
	9625.6	97	866.3	1	50	401.1		266.8	23.5	563.2	2	0.5	0.50	0.50		
+	9518.3 6003.6	96 61	856.7 540.3		1.50 1.50	396.6 250.1		275.0 199.6	24.4 17.6	586.7		0.5	0.50 0.28	0.50 0.28		
+	0.005.0	101	540.5			230.1		0.557	0.11	422.4	*	0.4	0.20	0.20		DESIGN AGENCY
										_						
+																
+																
+																DESIGNER
+																JED REVIEWER
																JDO 6/12/
+															<u> </u>	PROJECT ID
\uparrow				1							I					100648

SY/1	MMETRICAL A	BOUT & S			<u>OR PRE-</u>		$\frac{1}{4}$	CKFILL TYPE 1	1		SAME OPPOSITE / SIDE			ULDER	ES								
 ITEM 4 ITEM 4 ITEM 4 ITEM 4 ITEM 4 	NG ASPHALT C 142 - 1.5" ASPH 107 - NON-TRA 254 - 1.50" PAV 141 - 1.5" ASPH 301 - 8" ASPHA	HALT CON ACKING TA VEMENT F IALT CONCI	CRETE SUI CK COAT PLANING A RETE SURFA	RFACE CO ASPHALT C ACE COURS	CONCRETE	E	(446), PWL,20	24, AS PER PLA	N	PLAN SPLIT	ROUT	FT	HID PAVEMENT AREA FT SQ YD 6 11	202 PAVEMENT REMOVED SQ YD 11	301 8" ASPHAL CONCRET BASE, PG6- 22 CU YD 2	407 NON TRACKING TACK COAT @ 0.06 GAL/SQ YD	THICK- NESS	NCRETE SE, TYPE 1 GR	611 CONDUIT, MISC. ANULAR STRUCTL BACKFILL, 703.11 CK- SS	JRAL L	NT REPLACEMENT U	NOTES	OLIANTITIES
-	517 - COMPAC	TED AGGI	REGATE									16	6 11 TO GENERAL ARY	11 22	2	1.3	3.00	1 2	6	PAVEME	NT REPLACEMENT D	OWNSTATION	PAVEMENT OI
LAN SPLIT	COUNTY- ROUTE	LOG POI	NT (MILE)	LEN	GTH	PAVEMENT AREA (Micro- Station	PAVEMENT AREA WITH NO SHOULDERS	PAVEMENT AREA		254 ENT PLANING LT CONCRETE	PATCHING PLANED	407 NON TRACKING TACK COAT @			PER PLAN	SEGREGATION	COMPACTED AGGREGATE, 1.5" DEPTH, 12"	617 SHOULDER PREPARATION	WATER @ 20 GAL/CU YD	618 RUMBLE STRIPES, CENTER LINE	874 LONGITUDINAL JOINT	NOTES	νd
		FROM	то	MILES	FT	Generated Area) SQ FT	SQ FT	SQ YD	DEPTH		SURFACE SQ YD	0.09 GAL/SQ YE GAL	THICK- NESS	CU YD		EQUIPMENT CU YD	CU YD	SQ YD	MGAL	(ASPHALT CONCRETE) MILES	PREPARATION	-	
/STR/05 /STR/05 /STR/05 /STR/05 /STR/05 /STR/05	PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35	2.67 3.17 3.67 4.17 4.67 5.17	3.17 3.67 4.17 4.67 5.17 5.67	0.50 0.50 0.50 0.50 0.50 0.50	2640 2640 2640 2640 2640 2640 2640	102659 95500 65365 84680 82190 81460	69530 61707 61879 61293 60623 606023	11407 10611 7263 9409 9132 9051	1.50 1.50 1.50 1.50 1.50 1.50	11406.6 10611.1 7262.8 9408.9 9132.2 9051.1	115 107 73 95 92 91	1026.6 955.0 653.7 846.8 821.9 814.6	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	475.3 442.1 302.6 392.0 380.5 377.1		321.9 285.7 286.5 283.8 280.7 279.6	24.4 24.4 24.4 24.4 24.4 24.4 24.4	586.7 586.7 586.7 586.7 586.7 586.7 586.7	0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	RUMBLES END 650' PRIOR TO CITY OF EATON LIMITS	
/STR/05 /STR/05 /STR/05 /STR/05 /STR/05 /STR/05	PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35	5.17 5.67 6.17 6.67 7.17 7.67 8.17	5.67 6.17 6.67 7.17 7.67 8.17 8.67	0.50 0.50 0.50 0.50 0.50 0.50 0.50	2640 2640 2640 2640 2640 2640 2640	81460 83215 99155 89685 84920 86235 86625	62203 62820 63349 62206 61231 61880	9051 9246 11017 9965 9436 9582 9625	$ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50 \\ 1.50$	9051.1 9246.1 11017.2 9965.0 9435.6 9581.7 9625.0	91 93 111 100 95 96 97	814.6 832.2 991.6 896.9 849.2 862.4 866.3	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	377.1 385.3 459.1 415.2 393.1 399.2 401.0		279.6 288.0 290.8 293.3 288.0 283.5 286.5	24.4 24.4 24.4 24.4 24.4 24.4 24.4 24.4	586.7 586.7 586.7 586.7 586.7 586.7 586.7	0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.50 0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50		
/STR/05 /S5K/05 /S5K/05	PRE-US 35 PRE-US 35 PRE-US 35	8.67 9.15 9.65	9.15 9.65 10.01	0.48 0.50 0.36	2534 2640 1901	86630 85665 54032	57633 59405 43107	9626 9518 6004	1.50 1.50 1.50	9625.6 9518.3 6003.6	97 96 61	866.3 856.7 540.3	1.50 1.50 1.50	401.1 396.6 250.1		266.8 275.0 199.6	23.5 24.4 17.6	563.2 586.7 422.4	0.5 0.5 0.4	0.50 0.50 0.28	0.50 0.50 0.28		DESIGN AG
																							DESIGNER JI REVI
															1								JDO 6

TIME: 8:25:36 AM USER: jdavis4 PRE-US 35-2.62 MODEL: Sheel_SUMPT PAPERSIZE: 17x11 (m.) DATE: 8/30/2023

	-			-	-												
								6	44		-						
PART	COUNTY- ROUTE	LOG POINT (MILE)		TOTAL		DOTTED LINE	EDGE	LINE 6"	CENT	ER LINE	STOP LINE	R/R CROSSING					
							WHITE										
		FROM	TO	MILE		FEET	MILE		MILE		FEET	EACH					\Box
																_	_
01/STR/05	PRE-35	2.67	9.15	6.48		600	12.96		6.48								_
02/S5K/05	PRE-35	9.15	10.01	0.86			1.72		0.86		12	1				_	+
																_	+
																+	+
											-			+	+	<u> </u>	+
																+	+
															+	<u> </u>	+
																	1
	TOTALS C	ARRIED TO	GENERAL SU	JMMARY		600	14	1.68	7	.34	12	1					
	TOTALS C	CARRIED TO	GENERAL SU	JMMARY		600	14	4.68	7	.34	12	1					

PRE-US 35-2.62 MODEL: Sheet SurvFt PAPERSIZE: 17x11 (m.) DATE: 8/30/2023 TIME: 8:24:35 AM USER: jdavis4 pw:\ohiodot-pw.banitey.com:ohiodot-pw-02/Documents/01 Active Projects/District 08/Preble/100648400

Image: Constraint of the sector of	REMARKS	PAVEMENT MARKINGS
		DESIGN AGENCY DESIGNER JED REVIEWER JDO 6/122/23 PROJECT ID 100648 SHEET TOTAL P.7 19

								ITEM 202			ITEM 606		ITEM 626	-
	PART	COUNTY	ROUTE	LOG P	OINT	SIDE	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	ТО		FT	EACH	EACH	FT		EACH	EACH	
01/5	STR/05	PRE	35	3.45	3.46	RIGHT	13.0	1		50.0		1	2	
														REMO 50' MG EXTEN
04/S	STR/04	PRE	35	8.18		LEFT	25.0	1			1			- REMO - RECON
04/S	STR/04	PRE	35	8.18		LEFT	25.0	1			1			
01/5	STR/05	PRE	35	6.20	6.20	RIGHT	75.0	1		50.0		1	2	
03/5	STR/13	PRE	35	8.61		LEFT	100.0	1	1	50.0	1	1	2	-
03/5	STR/13	PRE	35	8.61		LEFT	100.0	1	1	50.0	1	1	2	
03/5	STR/13	PRE	35	8.61		RIGHT	100.0	1	1	50.0	1	1	2	
03/5	STR/13	PRE	35	8.61		RIGHT	100.0	1	1	50.0	1	1	2	
02/5	S5K/05	PRE	35	9.59	9.59	LEFT	75.0	1		50.0		1	2	
02/5	S5K/05	PRE	35	9.59	9.59	RIGHT	75.0	1		50.0		1	2	
														<u> </u>
»														
														<u> </u>
				<u> </u>										
				<u> </u>										
		TOTALS C	ARRIED TO G	GENERAL SUM	MARY	<u> </u>	688	10	4	400		8	16	1

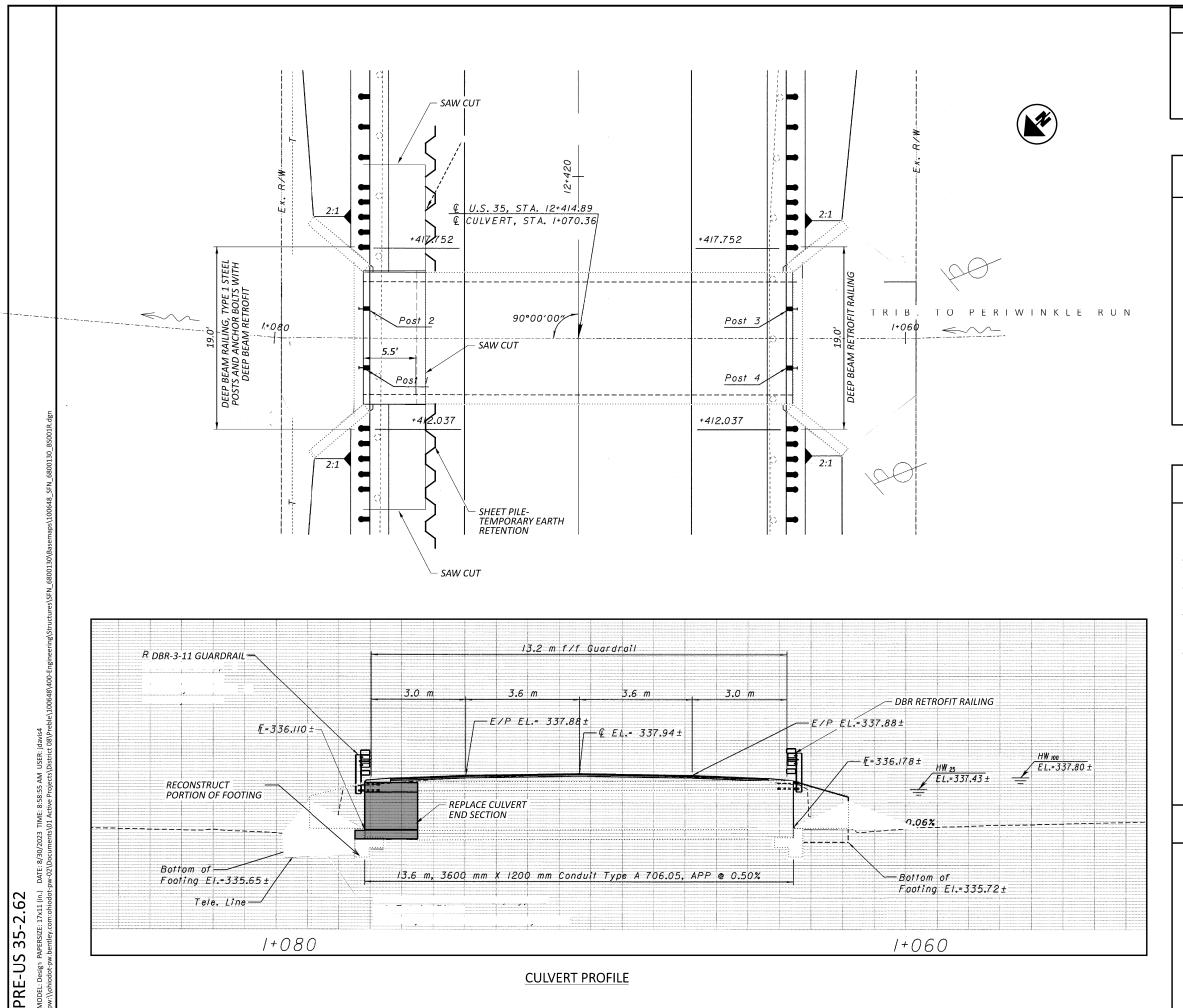
NOTES	
E A ANCHOR AND 12.5' EXISTING GUARDRAIL ON THE RADIUS. REPLACE WITH ST GUARDRAIL (12.5' ON THE RADIUS) AND A MGS TYPE E ANCHOR G MURRAY ROAD. FOOTPRINT WILL INCREASE ROUGHLY 62.5'.	TIES
LACE THE BRIDGE TERMINAL ASSEMBLY DUE TO THE CULVERT OUTLET I.	GUARDRAIL QUANTITIES
MATCH EXISTING FOOTPRINT	d
STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT	3 AIL
STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT	RDF
STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT	
STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT	0
MATCH EXISTING FOOTPRINT	
MATCH EXISTING FOOTPRINT	
	DESIGN AGENCY
	DESIGNER
	JED REVIEWER
	JDO 6/12/23 PROJECT ID
	100648 SHEET TOTAL P.8 19
	1.0 19

		TEM 253 - PAVEMENT REPAIR (B) 2 ITEM 407 - NON-TRACKING TACK COAT 3 ITEM 301 - 6" ASPHALT CONCRETE BASE, PG 64-22, (449) 2 - 3" LIFTS 4 ITEM 608 - CURB RAMP KISTING ASPHALT SECTION			PER BP0		24″	sawcut			
	1			FOR INFORMA	TION ONLY	2	02	253	608	1	1
100648_CR001.4gn	ROUTE	LOGPOINT OR INTERSECTING STREETNAME	BLENDED TRANSITION	CURB RAM	P TYPE	MALK REMOVED		Q PAVEMENT REPAIR (B)	CURB RAMP		
ets/1006						5411			5411		
PRE	35	US-35/ UPSHUR NORTHER RD NE CORNER (C-1)	1			36		1	36		
PRE	35	US-35/ UPSHUR NORTHER RD NW CORNER (C-2)	1			24		1	24		
PRE	35	US-35/ UPSHUR NORTHER RD SE CORNER (C-3)	1			24		1	24		
Intsion Active Projects/District 08/Preble/100648/40	35	US-35/ UPSHUR NORTHER RD SW CORNER (C-4)	1			24		1	24		
2\Docume											
ot-pw-02											
com:ohiod		TOTALS CARRIED TO GENERAL SUMMARY				108		4	108		

NOTE: PAVEMENT REPAIR (B) WORK SHALL TAKE PLACE PRIOR TO RESURFACING. BLENDED TRANSITION CURB RAMP BLENDED TRANSITION CURB RAMPS ARE ANOTHER TYPE OF ADA COMPLIANT RAMP. IF THE RUNNING SLOPE OF THE BLENDED TRANSITION IS 5% OR LESS THEN NO LANDING IS REQUIRED. THE BLENDED TRANSITION CROSS SLOPE IS REQUIRED TO ALWAYS MEET THE STANDARD 1.56 % (64:1).	
	QUANTITIES
ADDITIONAL NOTES	CURB RAMPQUANTITIES
	DESIGN AGENCY
	JEDIGNER JED REVIEWER JDO 6/12/23 PROJECT ID 100648 SHEET TOTAL P.9 19



MODEL: SheeL_suvFt PAPERSIZE: 17x11 (in.) DATE: 8/30/2023 TIME: 8:16:59 AM USER: jdavis4 pw/shindrot-wu/pantlev.com:oniocint-oww/20Documentsi01 Artiste Protects/District 08/Prefate1006408400-Endimentinvex-twarviSheets1100648 CR0



HYDRAULIC DATA

DRAINAGE A	NREA = 132	Hectacres		HORIZONTA SCALE IN FEE
Q (25) =	8.4 M^3/S	V (25) =	3.8 M/S	RIZ
Q (100) =	11.2 M^3/S	V (100) =	4.0 M/S	RCA

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

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

35

US

6800130

CHECKE

JED

100648

P.11A 19

1 3

- 1. REPLACE THE EAST SECTION OF PRECAST BOX CULVERT WITH A NEW PRECAST BOX CULVERT SECTION.
- REPAIR REMAINING PORTIONS OF CULVERT INTERIOR WHERE SPALLING HAS OCCURRED WITH TROWELABLE MORTAR PER SS 843. 2.
- SEAL CULVERT ENDS AND WINGWALLS CONCRETE SURFACES WITH EPOXY URETHANE SEALER PER CMS 512. 3.
- 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. 4.
- 5. MILL AND FILL THE SURFACE COURSE ONLY ON THE STRUCTURE.

NOTES

VARIOUS INFORMATION ON THE CULVERT PLAN, CULVERT PROFILE AND 1. 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. ESIGNE GTF JDO 6/12/23

<u>DESIGN SPECIFICATIONS:</u> 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.

HSS8x4x^{3/}16 TUBING (TYP.)

-HSS8x4x³/₁₆x6" LONG

2 - TYPE B ANCHORS

Ľ٩

CULVERT TOP - PARTIAL TRANSVERSE SECTION

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

3"

 $2^{1/2}_{2}$

SPACER TUBE

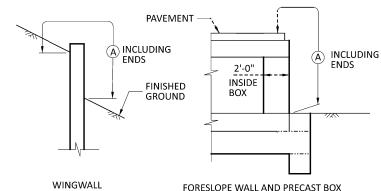
W-BEAM RAIL

<u>POROUS BACKFILL WITH FILTER FABRIC, AS PER PLAN</u> 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.

GENERAL NOTES

<u>SEALING OF CULVERT BOX FACES AND WINGWALLS:</u> 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.



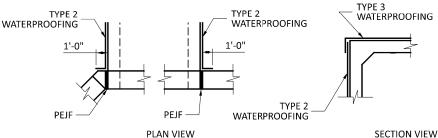
FORESLOPE WALL AND PRECAST BOX (CULVERT OUTLET BEVEL SHOWN)

LIMITS OF ITEM 512-SEALING CONCRETE SURFACES (A) - SEAL ENTIRE CONCRETE SURFACE AREA

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 EXISITING SECTIONS.



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

					ESTIMATED QUANTITIES (PLAN SPLIT 04/STR/04)
UBING (TYP.)	ITEM	ITEM EXT	TOTAL	UNIT	DESCRIPTION
"LONG	202	11201	LUMP	60. VD	PORTIONS OF STRUCTURE REMOVED
	202	23000	11	SQ. YD.	PAVEMENT REMOVED
-5"	503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING
5-7	503	21300	LUMP		UNCLASSIFIED EXCAVATION
	500	10001	1515		
	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 EXISITING COATINGS FROM CONCRETE SURFACES
	512	10101	36	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
5					
	512	33001	9	SQ. YD.	TYPE 2 WATERPROOFING, AS PER PLAN
<u> </u>	512	33011	32	SQ. YD.	TYPE 3 WATERPROOFING, AS PER PLAN
	516	13600	13	SQ. FT.	1" PREFORMED EXPANSION JOINT FILLER
NEW CAST-IN-PLACE	517	72300	18.75	LIN. FT.	RAILING (DEEP BEAM RAILING WITH STEEL TUBULAR BACKUP AND TYPE 2 STEEL POSTS AND ANCHOR BOLTS)
CONCRETE	517	75600	18.75	LIN. FT.	DEEP BEAM BRIDGE RETROFIT RAILING
CULVERT TOP SLAB					
	518	21201	3.24	CU. YD.	POROUS BACKFILL WITH GEOTEXTILE FABRIC
	843	50000	3.24	SQ. YD.	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR
SE SECTION	878	25000	LUMP		INSPECTION AND COMPACTION TESTING OF UNBOUJND MATERIALS

М 1:54:48 F LIME: 2023 17x11 (in.)

35-2.62

PRE-US

W6 x 25, TYPE 1 POST PROVIDE SQUARE CULVERT OUTLET. NO TONGUE AND GROOVE END SHALL

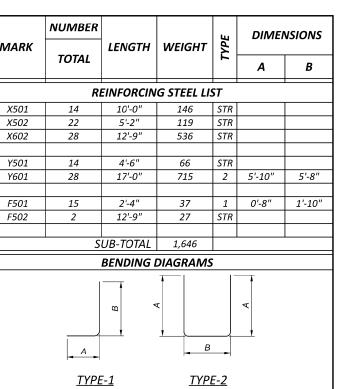
EDGE AT

RECONSTRUCTED

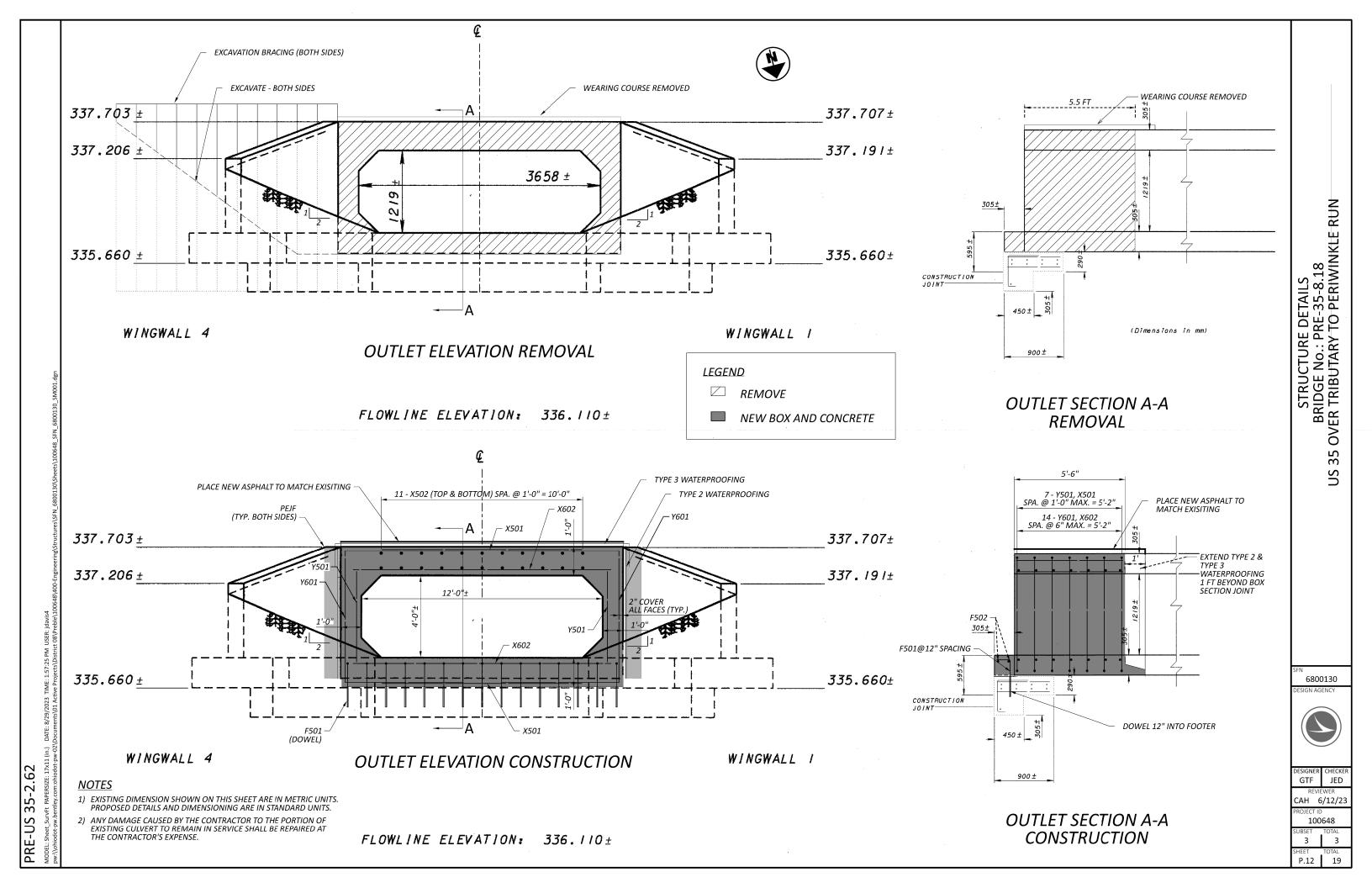
BE PROVIDED.

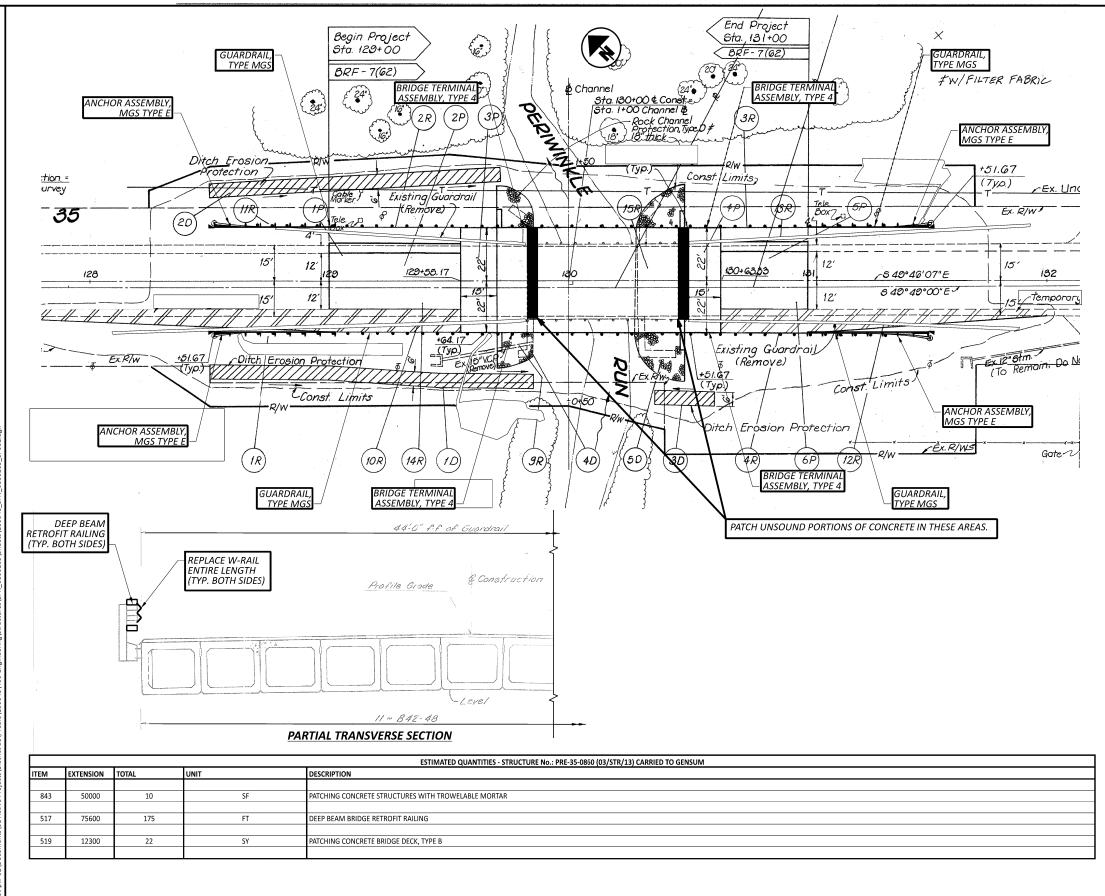
WATERPROOFING: TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE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

WATERPROOFING DETAILS

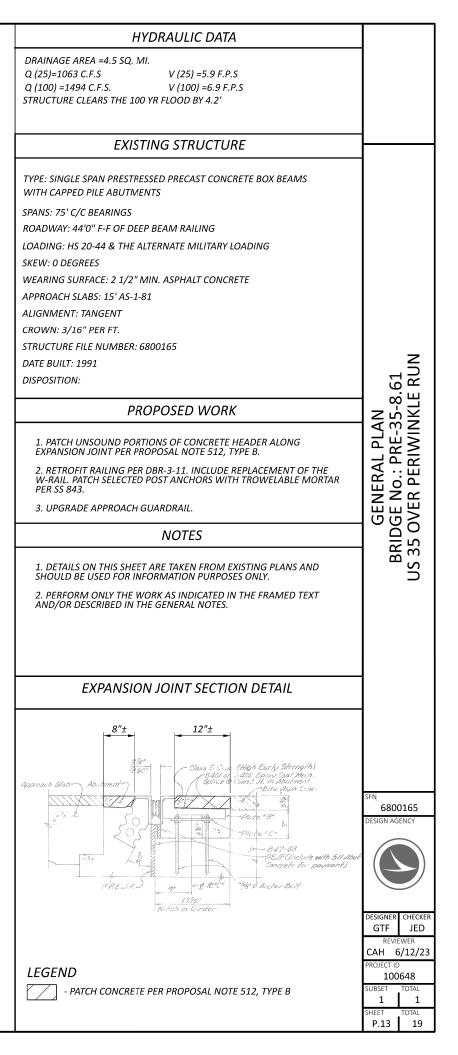


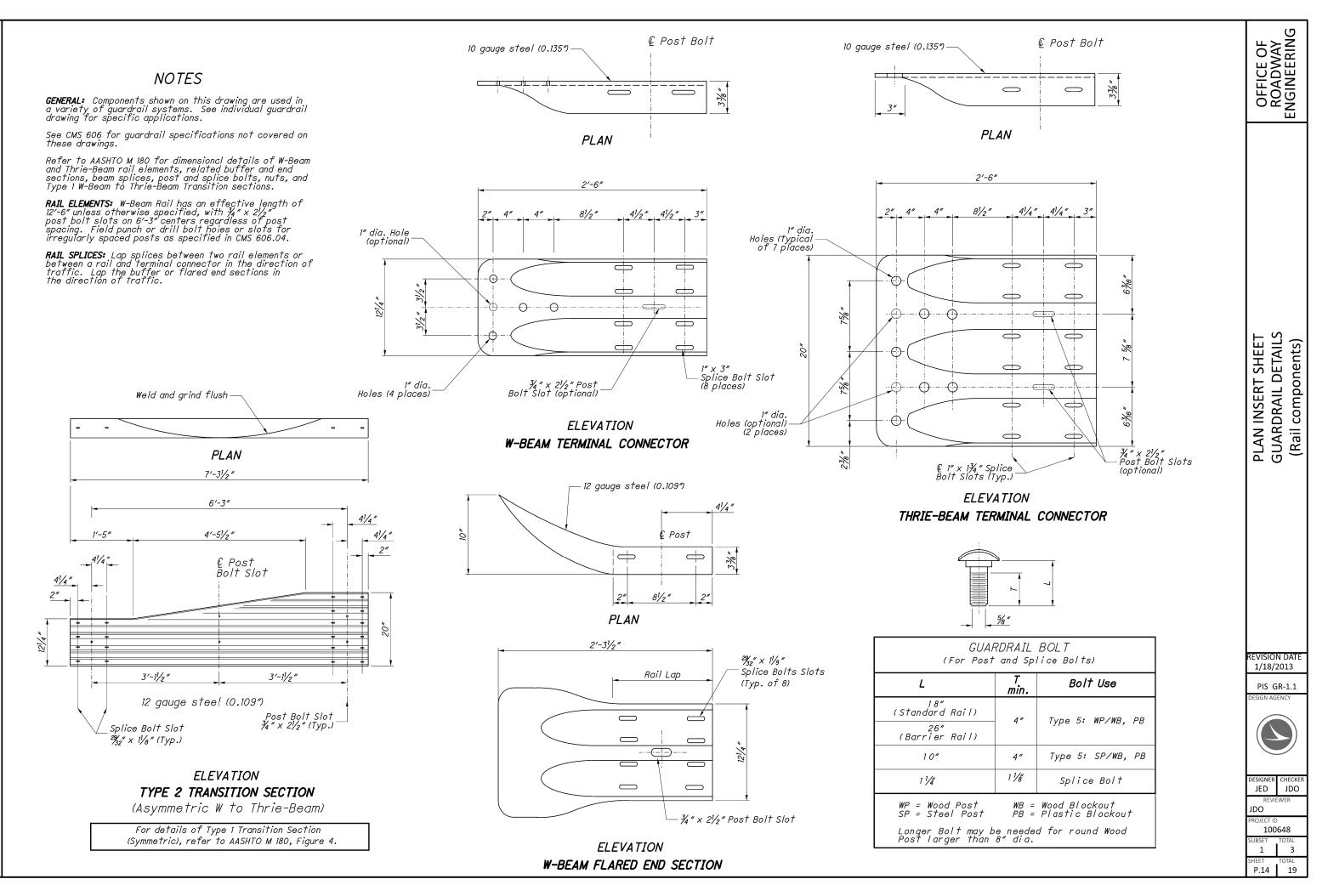




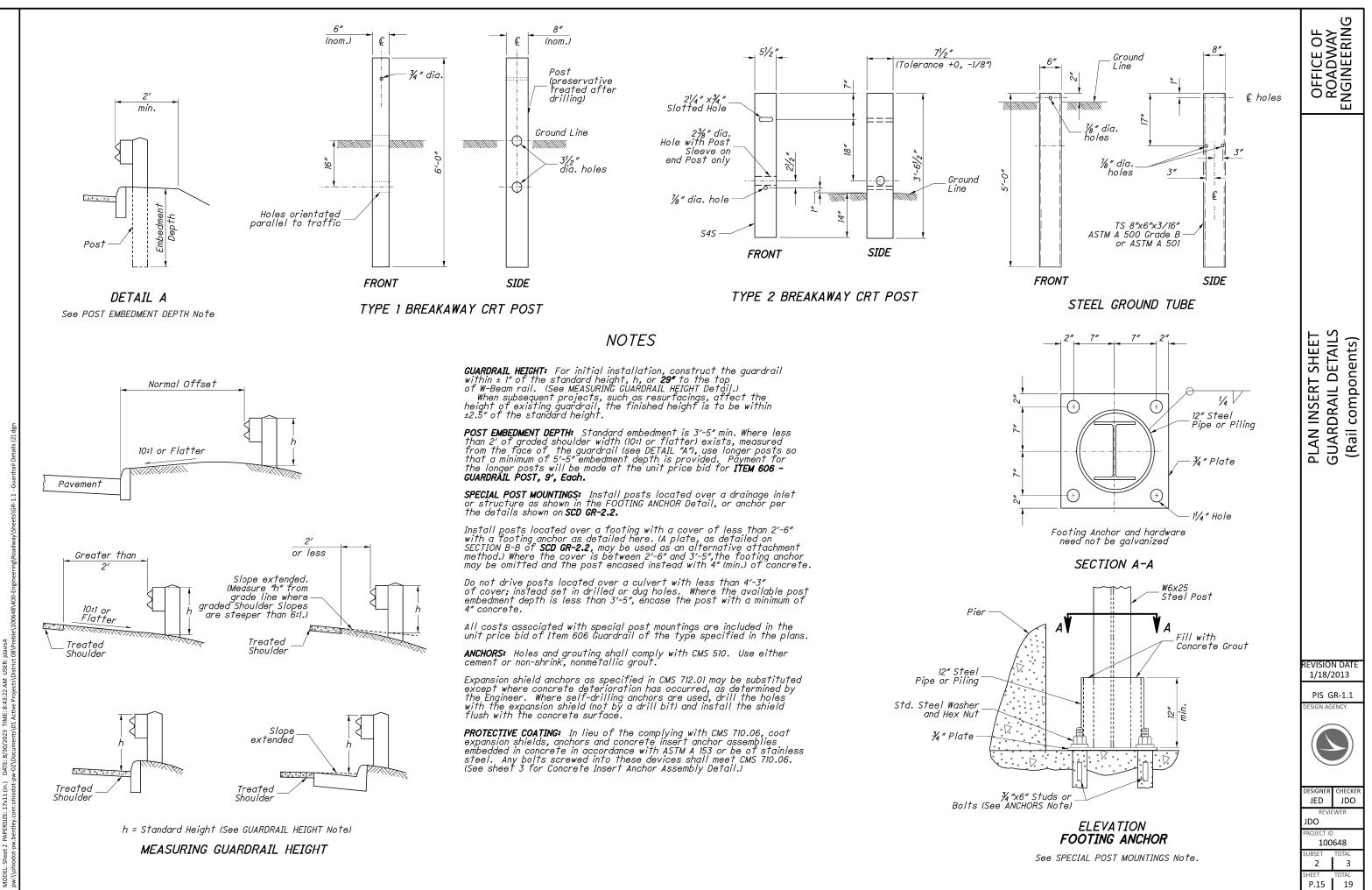


JSER: 9:04:51 AM DATE: 8/30/2023 ERSIZE: 17x11 (in.)



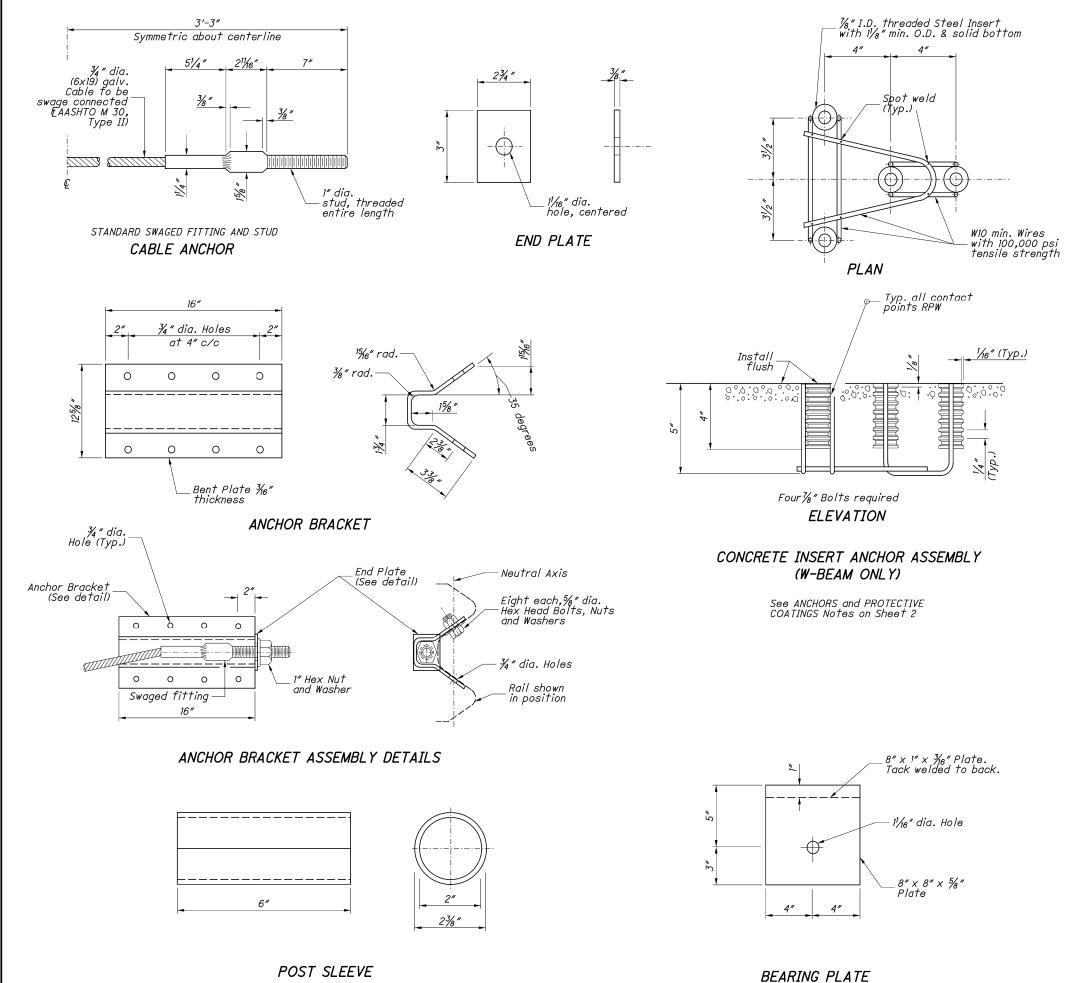


8/30/2023 TIME: 8:42:38 AM USER: jdavis4 Documents/01 Active Projects/District 08/Prel DATE: Sheet 1 PAPERSIZE: 17x11 (in.) МО

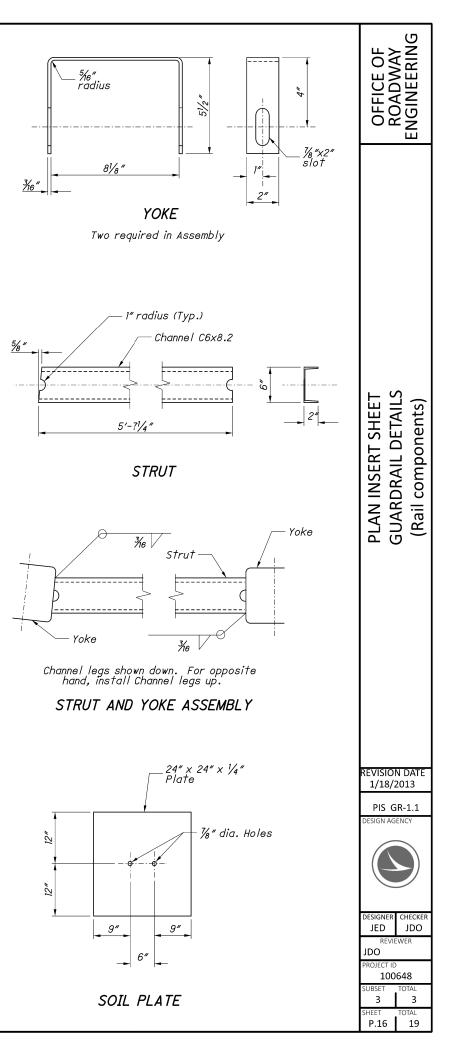


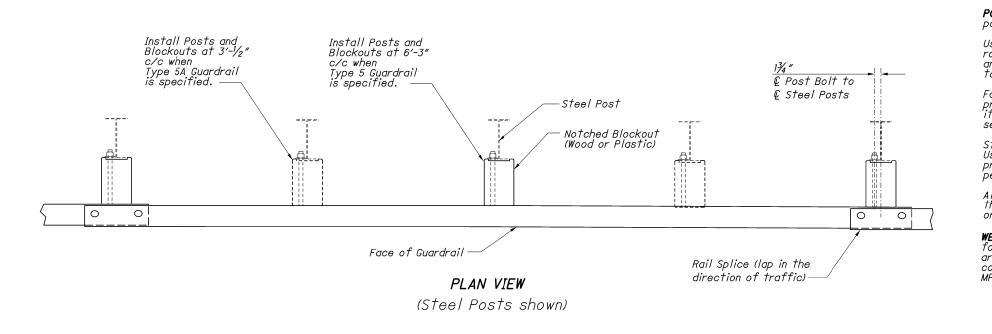
TIME: 8:43:22 AM USER: jdavis4 8/30/2023 DATE: 35-2.62 PAPERSIZE: 17x11 (in.)

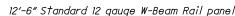
PRE-US

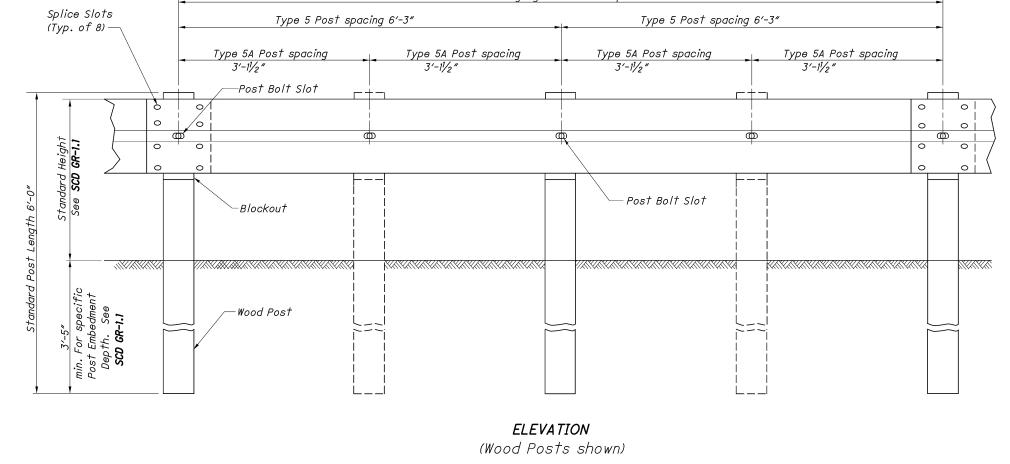


PRE-US 35-2.62 MODEL: Sheet 3 PAPERSIZE: 17X11 (in.) DATE: 8/30/2023 TIME: 8:43:58 AM USER: jdavis4 pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Preble\100648\400-Engineering\Roadway\Sheets\GR-1.1-Guardrail Details (2).









taper.

set.

Sec. 12

Sec. 13

List.

Size Rolled W6 Rolled W6 Welded 6. Welded 6

DATE: PAPERSIZE: 17x11 (in.) 35-2.62 PRE-US ş

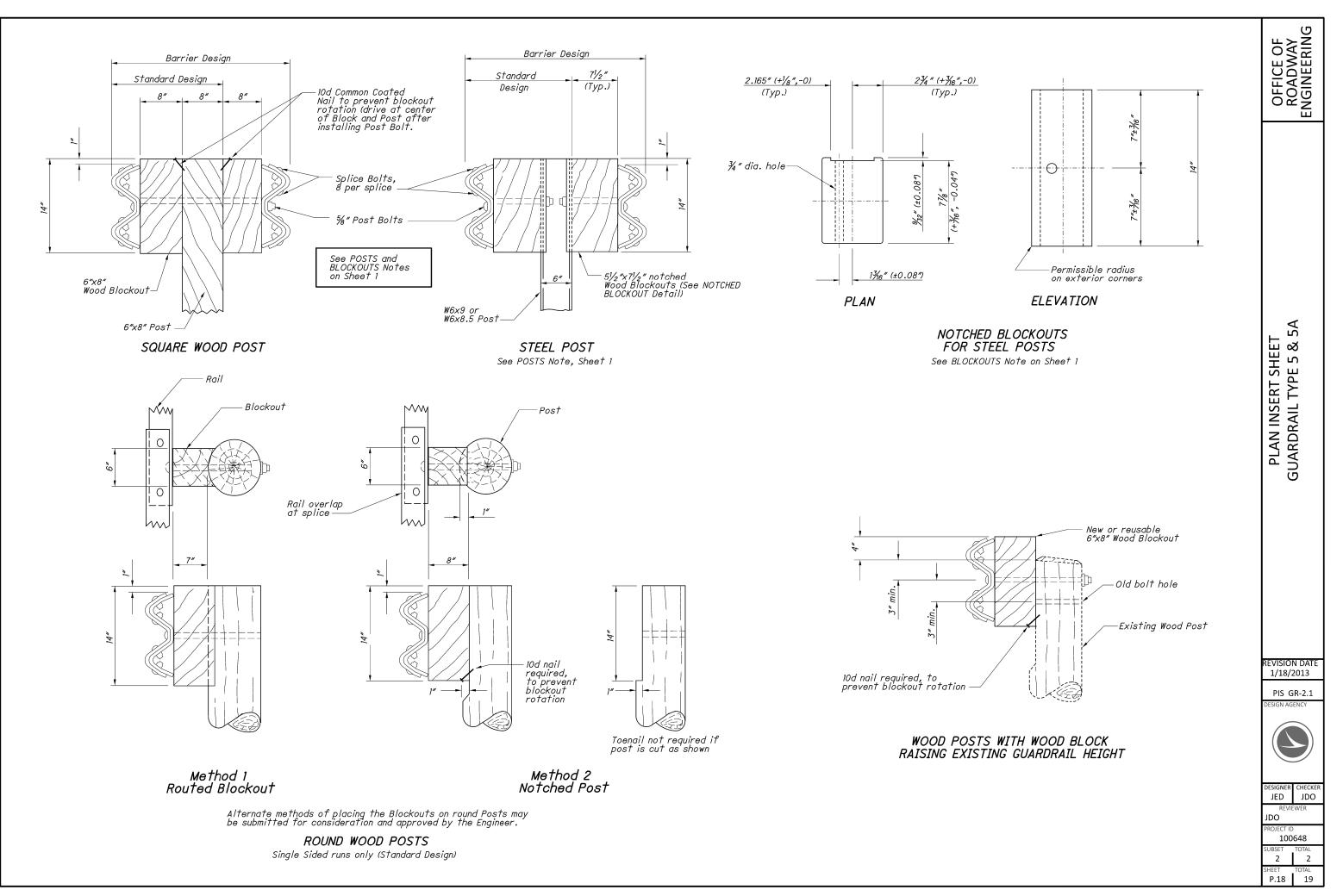
8/30/2023 TIME: 8:46:03 AM USER: jdavis4

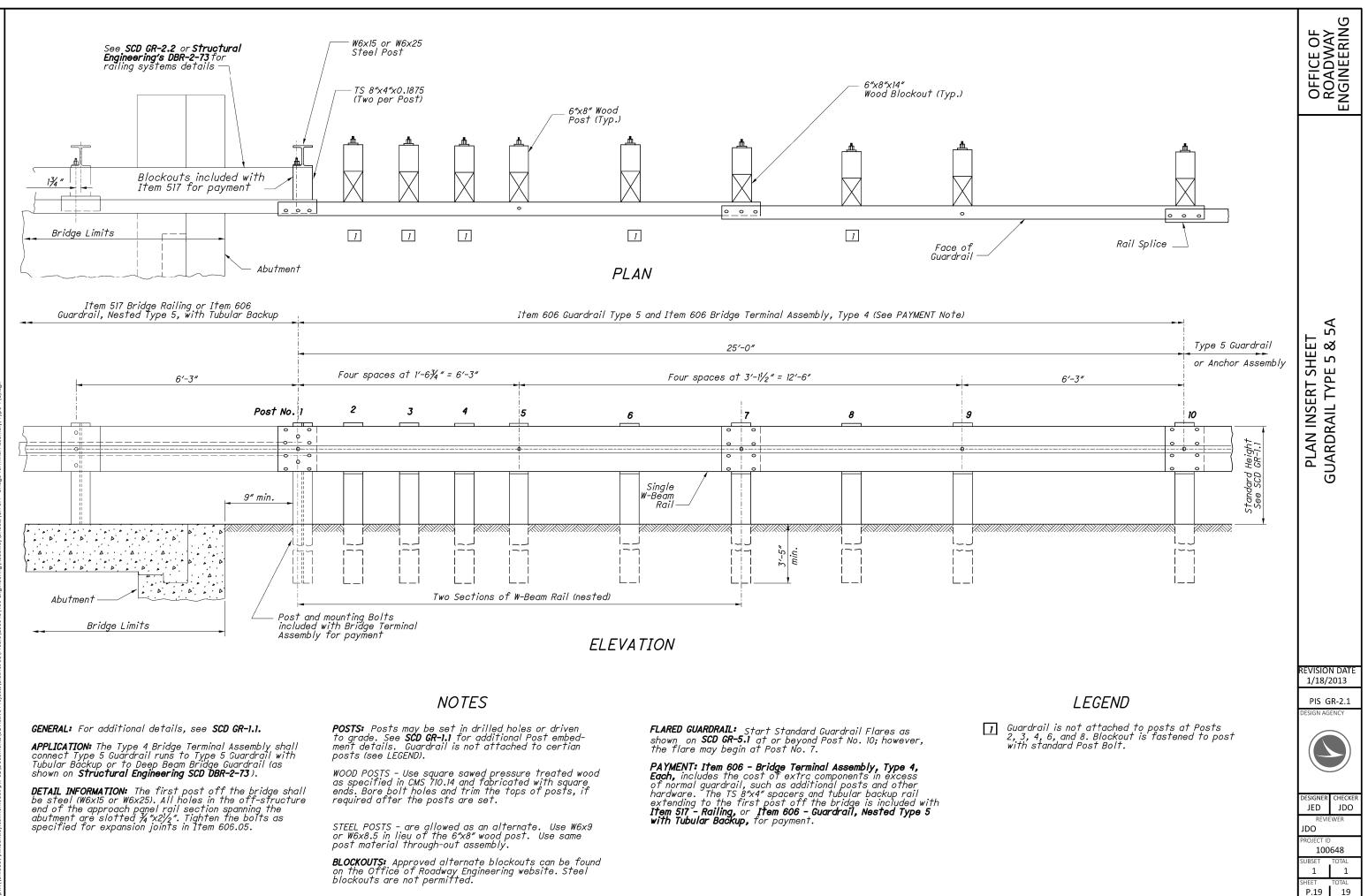
OFFICE OF ROADWAY ENGINEERING
PLAN INSERT SHEET GUARDRAIL TYPE 5 & 5A
REVISION DATE 1/18/2013 PIS GR-2.1 DESIGN AGENCY DESIGN AGENCY DESIGNER JED CHECKER JDO PROJECT ID 100-648 SUBSET TOTAL 1 2 SHEET TOTAL P.17 19

NOTES

- **RAIL:** Use W-Beam rail meeting AASHTO M 180 Type II Class A, as specified in CMS 606.
- **POSTS:** Posts may be constructed of wood or steel. Wood posts may be round or 6"x8" square-sawed.
- Use round wood posts on runs of single-sided rail. The round posts shall be 8″±1 in diameter at the top and not more than 3″ larger at the butt with a uniform
- Fabricated wood posts with square ends. Posts shall be pressure-treated as per CMS 710.14. Bore bolt holes and, if required, trim the tops of posts after the posts are
- Steel posts are to be W6x9 or W6x8.5 galvanized steel. Use the same type of post throughout the length of the project unless otherwise specified in the plans or permitted by the Engineer.
- All posts are 6'-0" long unless specified otherwise in the Contract Document. Posts may be set in drilled holes or may be driven to grade.
- **WELDED BEAM POSTS:** Welded beam guardrail posts may be used for Item 606, Guardrail, provided the web and flange sizes are as shown here. Welding of the web to the flanges must comply with ASTM A 769, Class 1, using Grade 36 steel [250 MPa yield point] with the following exceptions:
 - Sec. 7.2 Test reports of tensile properties for each lot shall accompany each shipment.
 - Beams that have imperfections repaired by welding shall not be accepted for use in Item 606.
 - Random samples shall be tested by the Department from materials delivered to the project site, or other locations designated by the Laboratory.
- ALTERNATE POSTS: Engineered guardrail posts having met NCHRP 350 criteria, and listed on the **Office of Materials Management's** Approved List are permitted as an equal alternate when installed according to the Manufacturer's instructions and within the limitations shown on the Approved
- BLOCKOUTS: Blockout dimensions are dependent on post used. Wood Blockouts are to be pressure treated as specified in CMS 710.14. Bore bolt holes. Approved alternate blockouts may be used in lieu of the wood blockouts shown. The approved list is maintained by the **Office of Roadway Engineering.**
- **WASHERS:** Install appropriate sized standard galvanized steel washers on the nut side of bolts installed on wood posts.
- DELINEATION: For barrier reflectors, see CMS 626.
- MISCELLANEOUS: For other guardrail details, see SCD GR-1.1.

STEEL	STEEL BEAM POSTS (English)												
,	Beam depth	Flange width	Flange thickness	Web thickness									
6x8.5	5.8″	3.94″	0.193″	0.170″									
6x9	5.9″	3.94″	0.215″	0.170″									
Sx8.5	6.0″	3.94″	0.193″	0.170″									
Sx9	6.0″	3.94″	0.215″	0.170″									





35-2.62

PRE-US