



SHEET NUMBER									PARTICIPATION			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
									01/STR/04	02/STR/13	03/STR/10						
P.3-P.4	P.5-P.7	P.12	P.13	P.14	P.15	P.16	P.30										
							LS		LS			201	11000	LS		ROADWAY	
				6					6			202	20010	6	EACH	CLEARING AND GRUBBING	
		297							297			202	23000	297	SY	HEADWALL REMOVED	
				200					200			202	35100	200	FT	PAVEMENT REMOVED	
			255.0						255.0			202	38001	255.0	FT	PIPE REMOVED, 24" AND UNDER	P.3
																GUARDRAIL REMOVED, AS PER PLAN	
				3					3			202	42001	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	P.3
					1				1			202	58100	1	EACH	CATCH BASIN REMOVED	
				600					600			202	75000	600	FT	FENCE REMOVED	
20									20			202	98200	20	FT	REMOVAL MISC.: CONDUIT	P.4
		71							1134			203	10000	1134	CY	EXCAVATION	
									463			203	20000	463	CY	EMBANKMENT	
10									10			203	20001	10	CY	EMBANKMENT, AS PER PLAN	P.4
									326			204	10000	326	SY	SUBGRADE COMPACTION	
									2.81			209	72000	2.81	STA	PREPARING SUBGRADE FOR SHOULDER PAVING	
									275.0			606	15050	275	FT	GUARDRAIL, TYPE MGS	
									100			606	17360	100	FT	GUARDRAIL, TYPE MGS, LONG-SPAN	
									3			606	26151	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN (MASH2016)	P.3
									1			606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
25									25			606	98000	25	FT	GUARDRAIL, MISC.: ALTERNATIVE GUARDRAIL PLACEMENT	P.3
									LS			878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																EROSION CONTROL	
							10		10			601	11000	10	SY	RIPRAP, TYPE D	
							34		68			601	32100	68	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
					300				300			659	00300	300	CY	TOPSOIL	
					2722				2722			659	00530	2722	SY	SEEDING AND MULCHING, CLASS 3B	
					136				136			659	14000	136	SY	REPAIR SEEDING AND MULCHING	
					136				136			659	15000	136	SY	INTER-SEEDING	
					0.37				0.37			659	20000	0.37	TON	COMMERCIAL FERTILIZER	
					0.56				0.56			659	31000	0.56	ACRE	LIME	
					14.7				14.7			659	35000	14.7	MGAL	WATER	
				250.00					250			670	00700	250	SY	DITCH EROSION PROTECTION	
									10000			832	30000	10000	EACH	EROSION CONTROL	
																DRAINAGE	
				2.2					2.2			602	20000	2.2	CY	CONCRETE MASONRY	
60		60							60			605	31100	60	FT	AGGREGATE DRAINS	
60									60			611	03100	60	FT	10" CONDUIT, TYPE B	
									60			611	04400	60	FT	12" CONDUIT, TYPE B	
									20			611	04600	20	FT	12" CONDUIT, TYPE C	
30									30			611	05100	30	FT	12" CONDUIT, TYPE E	
30									30			611	05200	30	FT	12" CONDUIT, TYPE F	
					166				166			611	10400	166	FT	24" CONDUIT, TYPE B	
					12				12			611	10600	12	FT	24" CONDUIT, TYPE C	
					41				41			611	13900	41	FT	30" CONDUIT, TYPE D	
10							90		90			611	96390	90	FT	16' X 4' CONDUIT, TYPE A, 706.05	
10									10			611	97400	10	FT	CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE	P.4
									10			611	97400	10	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	P.4
					1				1			611	98300	1	EACH	CATCH BASIN, NO. 5	
					1				1			611	98510	1	EACH	CATCH BASIN, NO. 2-3	

DESIGN AGENCY

 DESIGNER
 AMH
 REVIEWER
 DR 01/08/24
 PROJECT ID
 107000
 SHEET TOTAL
 P.10 41


SHEET NUMBER									PARTICIPATION			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
									01/STR/04	02/STR/13	03/STR/10						
P.3-P.4	P.5-P.7	P.12	P.13	P.14	P.15	P.16	P.30										
		655							655				254	01000	655	SY	PAVEMENT PAVEMENT PLANING, ASPHALT CONCRETE, 1.50"
	425								425				254	01000	425	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH
		70							70				301	56000	70	CY	ASPHALT CONCRETE BASE, PG64-22, (449)
		95							95				304	20000	95	CY	AGGREGATE BASE
	40	106							146				407	20000	146	GAL	NON-TRACKING TACK COAT
		56							56				441	70000	56	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
	10	10	2						22				617	10100	22	CY	COMPACTED AGGREGATE
						4			4				621	00100	4	EACH	TRAFFIC CONTROL RPM
						4			4				621	54000	4	EACH	RAISED PAVEMENT MARKER REMOVED
			6						6				626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL
			1						1				630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
	0.2								0.2				642	00100	0.2	MILE	EDGE LINE, 4", TYPE 1
						0.12			0.12				642	00104	0.12	MILE	EDGE LINE, 6", TYPE 1
						0.06			0.06				642	00300	0.06	MILE	CENTER LINE, TYPE 1
																	STRUCTURE 20 FOOT SPAN AND UNDER (UNI-736-0406, SFN: 8003212)
							LS		LS				202	11000	LS		STRUCTURE REMOVED
							LS		LS				503	11100	LS		COFFERDAMS AND EXCAVATION BRACING
							LS		LS				503	21300	LS		UNCLASSIFIED EXCAVATION
							84		84				503	21101	84	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN
							2791		2791				509	10000	2791	LB	EPOXY COATED STEEL REINFORCEMENT
							30		30				511	46510	30	CY	CLASS QC1 CONCRETE, FOOTING
							1		1				511	46610	1	CY	CLASS QC1 CONCRETE, HEADWALL
							43		43				512	10050	43	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
							125		125				512	33000	125	SY	TYPE 2 WATERPROOFING
							198		198				512	33010	198	SY	TYPE 3 WATERPROOFING
							26		26				516	13601	26	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN
							6		6				518	21200	6	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
																	WINGWALLS OPTION A: CAST-IN-PLACE
							840		840				509	10000	840	LB	EPOXY COATED STEEL REINFORCEMENT, WINGWALLS ONLY
							6		6				511	46010	6	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING
																	WINGWALLS OPTION B: PRECAST
							153		153				851	10000	153	SF	PRECAST GRAVITY AND SEMIGRAVITY RETAINING WALL
																	MAINTENANCE OF TRAFFIC
	20								20				410	10000	20	CY	TRAFFIC COMPACTED SURFACE, TYPE A
	48								48				614	11110	48	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
	LS								LS				614	12420	LS		DETOUR SIGNING
	35								35				614	13000	35	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
	2								2				614	18601	2	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
	1								1				616	10000	1	MGAL	WATER
																	INCIDENTALS
							LS		LS				614	11000	LS		MAINTAINING TRAFFIC
							LS		LS				623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING
							LS		LS				624	10000	LS		MOBILIZATION

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
AMH
 REVIEWER
DR 01/08/24
 PROJECT ID
107000
 SHEET TOTAL
P.11 | 41

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
201E11000	LS		CLEARING AND GRUBBING
202E11000	LS		STRUCTURE REMOVED
503E11100	LS		COFFERDAMS AND EXCAVATION BRACING
503E21300	LS		UNCLASSIFIED EXCAVATION
503E21101	84	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN
509E10000	2791	LB	EPOXY COATED STEEL REINFORCEMENT
511E46510	30	CY	CLASS QC1 CONCRETE, FOOTING
511E46610	1	CY	CLASS QC1 CONCRETE, HEADWALL
512E10050	43	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
512E33000	125	SY	TYPE 2 WATERPROOFING
512E33010	198	SY	TYPE 3 WATERPROOFING
516E13601	26	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN
518E21200	6	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
601E11000	10	SY	RIPRAP, TYPE D
601E32100	34	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER
611E96390	90	FT	16' X 4' CONDUIT, TYPE A, 706.05
WINGWALLS OPTION A: CAST-IN-PLACE			
509E10000	840	LB	EPOXY COATED STEEL REINFORCEMENT, WINGWALLS ONLY
511E46010	6	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING
WINGWALLS OPTION B: PRECAST			
851E10000	153	SF	PRECAST GRAVITY AND SEMIGRAVITY RETAINING WALL
QUANTITIES CARRIED TO THE GENERAL SUMMARY			

ESTIMATED QUANTITIES
 UNI-736-0406
 OVER BLUMENSCHHEIN DITCH

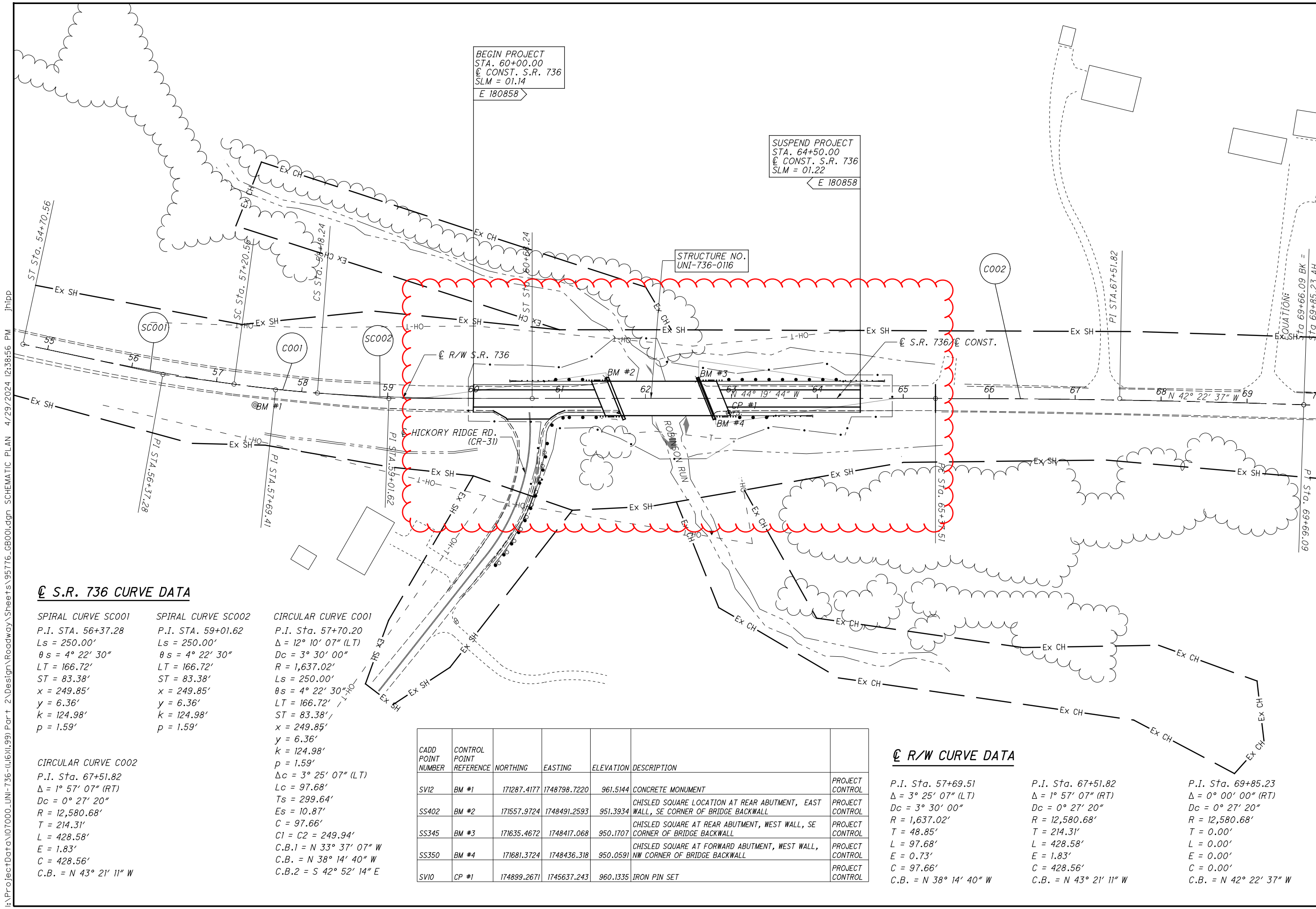
SFN	
8003212	
DESIGN AGENCY	
	
DESIGNER	CHECKER
AMH	XXX
REVIEWER	
DR 01/08/24	
PROJECT ID	
107000	
SUBSET	TOTAL
3	9
SHEET	TOTAL
P.30	41



CALCULATED
MJR
CHECKED
JPH

SCHEMATIC PLAN UNI-736-0116

UNI-736-(1.16)(1.99) PART 2



BEGIN PROJECT
STA. 60+00.00
@ CONST. S.R. 736
SLM = 01.14
E 180858

SUSPEND PROJECT
STA. 64+50.00
@ CONST. S.R. 736
SLM = 01.22
E 180858

STRUCTURE NO.
UNI-736-0116

☉ S.R. 736 CURVE DATA

SPIRAL CURVE SC001 P.I. Sta. 56+37.28 Ls = 250.00' θs = 4° 22' 30" LT = 166.72' ST = 83.38' x = 249.85' y = 6.36' k = 124.98' p = 1.59'	SPIRAL CURVE SC002 P.I. Sta. 59+01.62 Ls = 250.00' θs = 4° 22' 30" LT = 166.72' ST = 83.38' x = 249.85' y = 6.36' k = 124.98' p = 1.59'	CIRCULAR CURVE C001 P.I. Sta. 57+70.20 Δ = 12° 10' 07" (LT) Dc = 3° 30' 00" R = 1,637.02' Ls = 250.00' θs = 4° 22' 30" LT = 166.72' ST = 83.38' x = 249.85' y = 6.36' k = 124.98' p = 1.59' Δc = 3° 25' 07" (LT) Lc = 97.68' Ts = 299.64' Es = 10.87' C = 97.66' C1 = C2 = 249.94' C.B.1 = N 33° 37' 07" W C.B. = N 38° 14' 40" W C.B.2 = S 42° 52' 14" E
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CIRCULAR CURVE C002
P.I. Sta. 67+51.82
Δ = 1° 57' 07" (RT)
Dc = 0° 27' 20"
R = 12,580.68'
T = 214.31'
L = 428.58'
E = 1.83'
C = 428.56'
C.B. = N 43° 21' 11" W

CADD POINT NUMBER	CONTROL POINT REFERENCE	NORTHING	EASTING	ELEVATION	DESCRIPTION	
SV12	BM #1	171287.4177	1748798.7220	961.5144	CONCRETE MONUMENT	PROJECT CONTROL
SS402	BM #2	171557.9724	1748491.2593	951.3934	CHISLED SQUARE LOCATION AT REAR ABUTMENT, EAST WALL, SE CORNER OF BRIDGE BACKWALL	PROJECT CONTROL
SS345	BM #3	171635.4672	1748417.068	950.1707	CHISLED SQUARE AT REAR ABUTMENT, WEST WALL, SE CORNER OF BRIDGE BACKWALL	PROJECT CONTROL
SS350	BM #4	171681.3724	1748436.318	950.0591	CHISLED SQUARE AT FORWARD ABUTMENT, WEST WALL, NW CORNER OF BRIDGE BACKWALL	PROJECT CONTROL
SV10	CP #1	174899.2671	1745637.243	960.1335	IRON PIN SET	PROJECT CONTROL

☉ R/W CURVE DATA

P.I. Sta. 57+69.51 Δ = 3° 25' 07" (LT) Dc = 3° 30' 00" R = 1,637.02' T = 48.85' L = 97.68' E = 0.73' C = 97.66' C.B. = N 38° 14' 40" W	P.I. Sta. 67+51.82 Δ = 1° 57' 07" (RT) Dc = 0° 27' 20" R = 12,580.68' T = 214.31' L = 428.58' E = 1.83' C = 428.56' C.B. = N 43° 21' 11" W	P.I. Sta. 69+85.23 Δ = 0° 00' 00" (RT) Dc = 0° 27' 20" R = 12,580.68' T = 0.00' L = 0.00' E = 0.00' C = 0.00' C.B. = N 42° 22' 37" W
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I:\Project+Data\07000_UNI-736-(1.16)(1.99)\Part 2\Design\Roadway\Sheets\95776_GN001.dgn GENERAL NOTES - SHEET 2 4/29/2024 12:39:15 PM jh1pp

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN (MASH 2016):

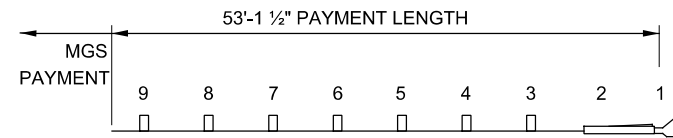
THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON THE ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE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

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH REBOUNDABLE RETROREFLECTIVE 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.

THE PAYMENT LIMIT (LENGTH) FOR THE PROPOSED ANCHOR ASSEMBLY, (MGS) TYPE E, AS PER PLAN SHALL BE 53'-1 1/2" (TO THE STANDARD MGS CONNECTION AS DETAILED BELOW.



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.

PART-WIDTH CONSTRUCTION:

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSE. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD DRAWING BP-3.1.

EROSION AND SEDIMENT CONTROL WITHIN THE BIG DARBY CREEK WATERSHED

THE PROJECT INCLUDES CONSTRUCTION ACTIVITIES WITHIN THE BIG DARBY CREEK WATERSHED AS DEFINED IN APPENDIX A OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) GENERAL PERMIT NO. OHCO00006. THE CONTRACTOR NEEDS TO FULLY UNDERSTAND ALL REQUIREMENTS ASSOCIATED WITH CONSTRUCTION WITHIN THE BIG DARBY CREEK WATERSHED BEFORE BEGINNING ANY WORK.

THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 832 ARE REQUIRED TO BE MET, INCLUDING THE WATERSHED SPECIFIC REQUIREMENTS IDENTIFIED IN OEPA GENERAL PERMIT NO. OHCO00005. THE CONTRACTOR SHOULD NOTE THE FOLLOWING UNIQUE REQUIREMENTS:

DO NOT UTILIZE AREAS WITHIN THE RIPARIAN ZONES AND OUTSIDE THE PROJECT CONSTRUCTION LIMITS FOR ANY CONTRACTOR ACTIVITIES. PROVIDE NOTIFICATION TO THE ENGINEER IF CONSTRUCTION LIMITS CANNOT BE MET PRIOR TO SWPPP DEVELOPMENT. THE CONTRACTOR MAY BE SUBJECT TO ADDITIONAL MITIGATION, RESTORATION OR PERMIT REQUIREMENTS. ALL ADDITIONAL MITIGATION, RESTORATION OR PERMIT REQUIREMENT COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE LOCATION OF THE RIPARIAN SETBACKS AS SHOWN IN THE PLANS MUST BE INCORPORATED INTO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR CANNOT AMEND THE LOCATIONS OF THE RIPARIAN SETBACKS.

PROVIDE TEMPORARY SEDIMENT TRAPS OR DETENTION BASINS AT ALL DISCHARGE LOCATIONS WHERE CONCENTRATED RUNOFF LEAVES THE PROJECT PERMITTED COVERAGE LIMITS. IDENTIFY EACH DISCHARGE LOCATION ON THE SWPPP WITH A UNIQUE NUMERIC IDENTIFICATION. PRELIMINARY LOCATIONS OF SEDIMENT TRAPS AND BASINS ARE SHOWN IN THE PLANS. IDENTIFY THE TIMING FOR INSTALLATION OF THE TEMPORARY SEDIMENT TRAP/BASINS IN THE SWPPP. INSTALL TEMPORARY SEDIMENT TRAPS AND BASINS PRIOR TO MAJOR DISTURBING ACTIVITIES AS DESCRIBED IN SS832. THE CONTRACTOR MAY MODIFY THE LOCATION AND TYPE OF THE TEMPORARY SEDIMENT TRAPS/BASINS AS NECESSARY TO FACILITATE CONSTRUCTION SEQUENCING. NOTIFY THE PROJECT ENGINEER OF ANY MODIFICATIONS TO THE TEMPORARY SEDIMENT TRAPS AND BASINS IN WRITING PRIOR TO CONSTRUCTION. DO NOT ALLOW UNTREATED SURFACE STORMWATER RUNOFF TO LEAVE THE PERMITTED COVERAGE LIMITS AT ANY TIME DURING CONSTRUCTION.

DESIGN TEMPORARY SEDIMENT TRAPS/BASINS WITH A MINIMUM SEDIMENT STORAGE ZONE VOLUME OF 37 CUBIC YARDS (28 m3) PER ACRE (0.4 ha) OF DISTURBED AREA WITHIN THE TRIBUTARY AREA AND A MINIMUM DEWATERING ZONE VOLUME OF 134 CUBIC YARDS (102 m3) PER ACRE (0.4 ha) OF TOTAL TRIBUTARY AREA. PROVIDE A SURFACE DEWATERING DEVICE FOR ALL TEMPORARY SEDIMENT BASINS.

PROVIDE SAMPLING AT EACH SEDIMENT BASIN OR TRAP AS DESCRIBED IN APPENDIX A OF OEPA GENERAL PERMIT NO. OHCO00005 TO ENSURE THE CONCENTRATION OF TOTAL SUSPENDED SOLIDS (TSS) DOES NOT EXCEED 45 MG/L. PROVIDE A GRAB SAMPLING PROCEDURE IN THE SWPPP AND IDENTIFY THE INDIVIDUALS RESPONSIBLE FOR PERFORMING EACH TEST. IF SAMPLING INDICATES DISCHARGE CONCENTRATIONS FROM SEDIMENT BASINS EXCEED 45 MG/L TSS, THE CONTRACTOR MUST MODIFY THE SWPPP AND FURNISH NEW EROSION AND SEDIMENT CONTROLS IN ORDER FOR SEDIMENT BASIN DISCHARGES TO MEET THE TSS CONCENTRATION LIMIT.

ALL WORK CONSISTING OF SAMPLING, TESTING, AND REPORTING SEDIMENT BASIN DISCHARGES SHALL BE INCLUDED IN ITEM 832 STORM WATER POLLUTION PREVENTION INSPECTIONS. RECORD ALL TESTING RESULTS UTILIZING THE SWPPPTRACK APPLICATION.

ANY WORK CONSISTING OF SWPPP MODIFICATIONS SHALL BE INCLUDED IN ITEM 832 STORM WATER POLLUTION PREVENTION PLAN.

ALL WORK ASSOCIATED WITH SEDIMENT BASIN CONSTRUCTION AND FURNISHING ADDITIONAL CONTROLS TO MEET SEDIMENT BASIN CONCENTRATION LIMITS SHALL BE INCLUDED IN ITEM 832 EROSION CONTROL.

CALCULATED
MJR
CHECKED
JPH

GENERAL NOTES

UNI-736-(1.16)(1.99)
PART 2

ITEM 614 - MAINTAINING TRAFFIC:

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD). COPIES ARE AVAILABLE FROM:

THE OHIO DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC
1980 WEST BROAD STREET
COLUMBUS, OHIO 43223

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOT TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY ODOT PERSONNEL. THE CONSTRUCTION INSPECTOR SHALL APPROVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR CONDITION AND LOCATION BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORK. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 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 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

RIGHT OF WAY PERMITS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE RIGHT OF WAY PERMITS TO INSTALL MAINTENANCE OF TRAFFIC SIGNING.

PUBLIC OUTREACH AND NOTIFICATION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT 6 PUBLIC INFORMATION OFFICE VIA EMAIL AT D06.PIO@DOT.OHIO.GOV TO COORDINATE EFFORTS TO NOTIFY ADJACENT RESIDENTS AND BUSINESSES OF THE UPCOMING PROJECT. ADVANCE NOTIFICATION SHALL OCCUR NO LATER THAN FOURTEEN (14) DAYS PRIOR TO THE FIRST DAY OF WORK. ALL NOTIFICATIONS SHALL BE MADE UTILIZING THE TEMPLATE PROVIDED BY THE DISTRICT 6 PUBLIC INFORMATION OFFICE.

NOTIFICATION OF CONSTRUCTION INITIATION:

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.OHIO.GOV, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.OHIO.GOV AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT 614.728.4099 OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORKZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

WINDOW CONTRACT TABLE

DESCRIPTION OF CRITICAL WORK	DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
ALL WORK AT LOCATION UNI-736-1.16	180 DAYS	\$3,000	4/1/2025	10/15/2025
ALL WORK AT LOCATION UNI-736-1.99	110 DAYS	\$3,000	4/1/2025	10/15/2025

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 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 SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV). THE PROJECT ENGINEER SHALL RECEIVE THIS NOTIFICATION PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHALL INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHOULD 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.

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATIONS OFFICE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE	
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION	

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME FRAME TABLE.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

ITEM 632 SIGNALIZATION, MISC.: MICROWAVE DETECTOR

THIS ITEM SHALL INCLUDE THE MICROWAVE DETECTOR UNIT, MOUNTING BRACKETS, ALL WIRE (AS SPECIFIED BY THE DETECTOR MANUFACTURER) TO CONNECT THE DETECTOR TO SIGNAL CABINET TO ALLOW THE DETECTOR UNIT TO OPERATE WITH THE INTERSECTION CONTROLLER. THE UNIT SHALL BE CAPABLE OF PRESENCE DETECTION AND BE ABLE TO SELECT INBOUND OR OUTBOUND TRAFFIC FOR DETECTION.

THIS ITEM SHALL INCLUDE ALL MATERIAL, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS TO INSTALL A POLE MOUNTED MICROWAVE DETECTOR. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 632 SIGNALIZATION, MISC.: MICROWAVE DETECTOR = 1 EACH

SEE MOT PLANS FOR LOCATION OF MICROWAVE DETECTOR.

USE OF STANDARD DRAWINGS:

IT MAY BE NECESSARY TO EXTEND THE ADVANCE WARNING AND BUFFER ZONES BEYOND THE MINIMUM DISTANCES SHOWN ON THE STANDARD DRAWINGS. THIS MAY BE DUE TO HORIZONTAL ALIGNMENT, VERTICAL ALIGNMENT, RAMP LOCATIONS, OR OTHER SIGHT OBSTRUCTIONS. LOCATIONS OF THE TAPER ZONES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER. TAPERS SHOULD BE PLACED IN TANGENT SECTIONS WHEREVER POSSIBLE.

DROPOFFS IN WORK ZONES:

THE DROPOFF ADJACENT TO THE TRAVELED LANE SHALL MEET THE CRITERIA OUTLINED IN STANDARD DRAWING MT-101.90. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR MATERIALS, LABOR OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS OF MT-101.90.

ACCESS TO PRIVATE PROPERTY:

MAINTAIN ACCESS TO COMMERCIAL PROPERTIES WITH ONLY ONE DRIVEWAY AT ALL TIMES BY THE USE OF PARTWIDTH CONSTRUCTION. FOR COMMERCIAL PROPERTIES WITH MULTIPLE DRIVEWAYS, DO NOT CLOSE MORE THAN ONE DRIVEWAY AT A TIME.

MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. WHEN A RESIDENTIAL DRIVE IS CLOSED FOR CONSTRUCTION, MAINTAIN AN ALTERNATE ACCESS TO THE PROPERTY. IT MAY BE REQUIRED FOR THE CONTRACTOR TO MAINTAIN ONE PASSABLE LANE WITHIN A CLOSURE IN ORDER FOR VEHICLES TO ACCESS RESIDENCY WITH A VEHICLE.

SUCCESSFULLY NOTIFY THE OCCUPANTS/OWNERS OF COMMERCIAL OR RESIDENTIAL DRIVES TO BE CLOSED AND COORDINATE THE CLOSURE AT LEAST 48 HOURS BEFORE THE CLOSURE BEGINS (SIMPLY LEAVING A WRITTEN NOTICE OR PHONE MESSAGE IS NOT SUFFICIENT). COORDINATE ALTERNATE ACCESS TO RESIDENTIAL PROPERTIES WITH THE OWNER/OCCUPANT.

CONSTRUCTION TRAFFIC:

ALL CONSTRUCTION TRAFFIC SHALL USE ACCEPTABLE TRUCK ROUTES IN ACCORDANCE WITH CMS 105.13 TO ACCESS THE CONSTRUCTION AREA. USE OF LOCAL AND RESIDENTIAL STREETS IS STRICTLY PROHIBITED UNLESS ALLOWED IN WRITING BY THE LOCAL ENFORCEMENT.

USE OF WEIGHTED CHANNELIZERS:

THE WEIGHTED CHANNELIZERS MAY BE USED IN ACCORDANCE WITH THIS SECTION. THE WEIGHTED CHANNELIZERS SHALL BE PREDOMINANTLY ORANGE IN COLOR AND SHALL BE MADE OF LIGHTWEIGHT, FLEXIBLE, AND DEFORMABLE MATERIAL. THEY SHALL BE AT LEAST 42 INCHES IN HEIGHT WITH A WEIGHTED BASE. THEY MAY HAVE A HANDLE OR LIFTING DEVICE, WHICH EXTENDS ABOVE THE 42" MINIMUM HEIGHT.

THE MARKINGS ON THE WEIGHTED CHANNELIZERS SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETRO REFLECTIVE STRIPES 6 INCHES WIDE. EACH WEIGHTED CHANNELIZER SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. ANY NON-RETRO REFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE. THE WEIGHTED CHANNELIZERS SHALL HAVE A 4-INCH MINIMUM WIDTH, REGARDLESS OF ORIENTATION.

USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATION FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT. ANY LANE CLOSURE USING CHANNELIZATION DEVICES, EXPECTED TO REMAIN FOR MORE THAN TWELVE HOURS, SHALL REQUIRE THE USE OF DRUMS OR BARRIERS. WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT.

WHEN USED AT NIGHT, WEIGHTED CHANNELIZERS SHALL ONLY BE PLACED IN THE TANGENT AREA. THE TANGENT AREA IS DEFINED AS THE AREA AFTER THE TRANSITION TAPER WHERE THE WORK TAKES PLACE. DRUMS SHALL BE USED IN THE TRANSITION TAPERS FOR NIGHT OPERATIONS. MAXIMUM SPACING OF THE WEIGHTED CHANNELIZERS SHALL BE 40 FEET.

STEPS SHOULD BE TAKEN TO ENSURE THAT THE WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND OR MOVING TRAFFIC. BALLASTS SHOULD NOT PRESENT A HAZARD IF THE WEIGHTED CHANNELIZERS ARE INADVERTENTLY STRUCK, NOR SHOULD THEY AFFECT THE VISIBILITY OF THE WEIGHTED CHANNELIZERS. ALL BALLASTS USED SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE" FOR EACH LOCATION. EACH ROUTE IS SHOWN ON THE DETOUR PLAN, SHEET 20/98. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THE LOCAL DETOUR ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

- ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH = 425 SY
- ITEM 407 NON-TRACKING TACK COAT = 40 GAL
- ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC = 35 CY
- ITEM 616 WATER = 1 MGAL
- ITEM 617 COMPACTED AGGREGATE = 10 CY
- ITEM 642 EDGE LINE, 4", TYPE 1 = 0.2 MILE

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MAINTENANCE OF TRAFFIC NOTES

UNI-736-(1.16)-(1.99)
PART 2

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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
9	11	24	25	31	32	02/STR/13	03/STR/10										
										LS	LS	201	11000	LS		ROADWAY	
		246		1,746						246	1,746	202	23000	1,992	SY	PAVEMENT REMOVED	
		723		521						723	521	202	38001	1,244	FT	GUARDRAIL REMOVED, AS PER PLAN	9
		4		4						4	4	202	42000	8	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
		4								4		202	47000	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
			202	13	442					202	455	203	10000	657	CY	EXCAVATION	
			108		388					108	388	203	20000	496	CY	EMBANKMENT	
		462		2,409						462	2,409	204	10000	2,871	SY	SUBGRADE COMPACTION	
		2.25								2.25		209	72000	2.25	STA	PREPARING SUBGRADE FOR SHOULDER PAVING	
		431.25		300						431.25	300	606	15050	731.25	FT	GUARDRAIL, TYPE MGS	
		1								1		606	25550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE A	
		3		4						3	4	606	26151	7	EACH	ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN (MASH 2016)	10
		4		4						4	4	606	34600	8	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	
										LS	LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
				8							8	601	21050	8	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
			122		287					122	287	659	00300	409	CY	TOPSOIL	
			1,054		2,608					1,054	2,608	659	00530	3,662	SY	SEEDING AND MULCHING, CLASS 3B	
			53		106					53	106	659	14000	159	SY	REPAIR SEEDING AND MULCHING	
			53		106					53	106	659	15000	159	SY	INTER-SEEDING	
			0.14		0.29					0.14	0.29	659	20000	0.43	TON	COMMERCIAL FERTILIZER	
			0.22		0.44					0.22	0.44	659	31000	0.66	ACRE	LIME	
			5.7		11.5					5.7	11.5	659	35000	17.2	MGAL	WATER	
											LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
											LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
											LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
										10,000	20,000	832	30000	30,000	EACH	EROSION CONTROL	
289										89	200	670	00500	289	SY	SLOPE EROSION PROTECTION	
				1,752							1,752	605	14000	1,752	FT	6" BASE PIPE UNDERDRAINS	
		80								80		605	31100	80	FT	AGGREGATE DRAINS	
				70							70	611	00510	70	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
				4							4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																PAVEMENT	
		402		78						402	78	254	01000	480	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" DEPTH	
	425	371		1,008						371	1,433	254	01000	1,804	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH	
		58		465						58	465	301	56000	523	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
		90		417						90	417	304	20000	507	CY	AGGREGATE BASE	
	40	164		586						164	626	407	20000	790	GAL	NON-TRACKING TACK COAT	
		46								46		407	20000	46	GAL	NON-TRACKING TACK COAT, 702.13	
		87		130						87	130	441	70000	217	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
				4							4	441	70500	4	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
	10	10								10	10	617	10100	20	CY	COMPACTED AGGREGATE	
																TRAFFIC CONTROL	
			2	12						2	12	621	00100	14	EACH	RPM	
			2	12						2	12	621	54000	14	EACH	RAISED PAVEMENT MARKER REMOVED	
		13		10						13	10	626	00110	23	EACH	BARRIER REFLECTOR, TYPE 2, TYPE 2, BIDIRECTIONAL	
	0.2										0.2	642	00100	0.2	MILE	EDGE LINE, 4", TYPE 1	
		0.18		0.38						0.18	0.38	642	00104	0.56	MILE	EDGE LINE, 6", TYPE 1	
		0.09		0.19						0.09	0.19	642	00300	0.28	MILE	CENTER LINE, TYPE 1	

GENERAL SUMMARY

UNI-736-(1.16)(1.99)

PART 2

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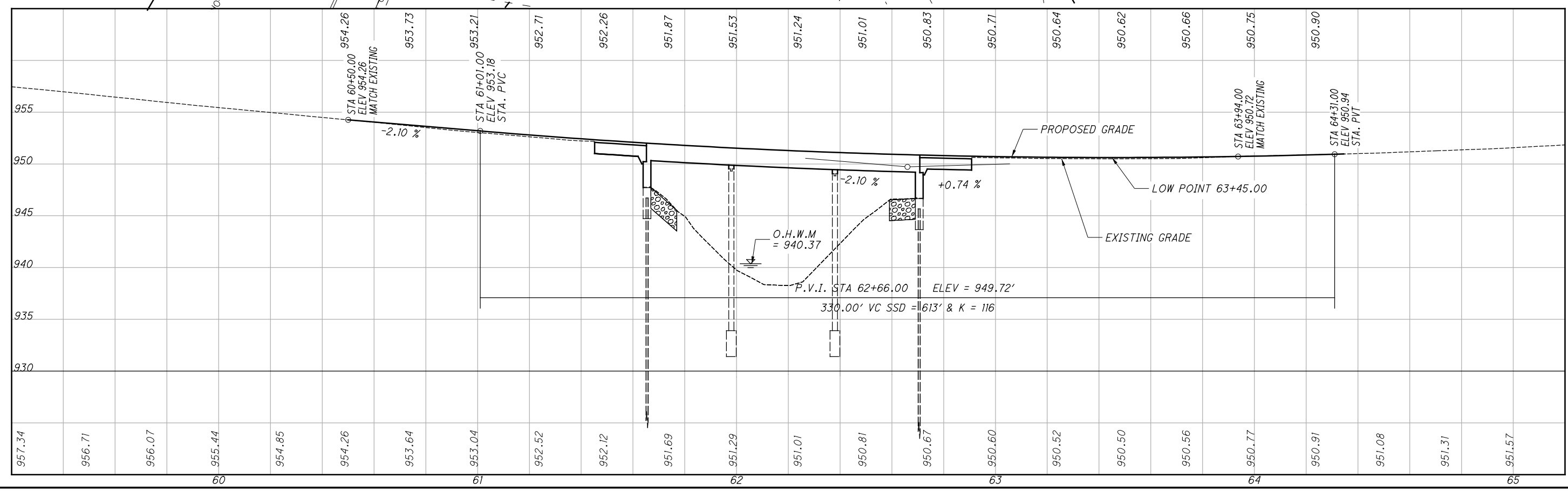
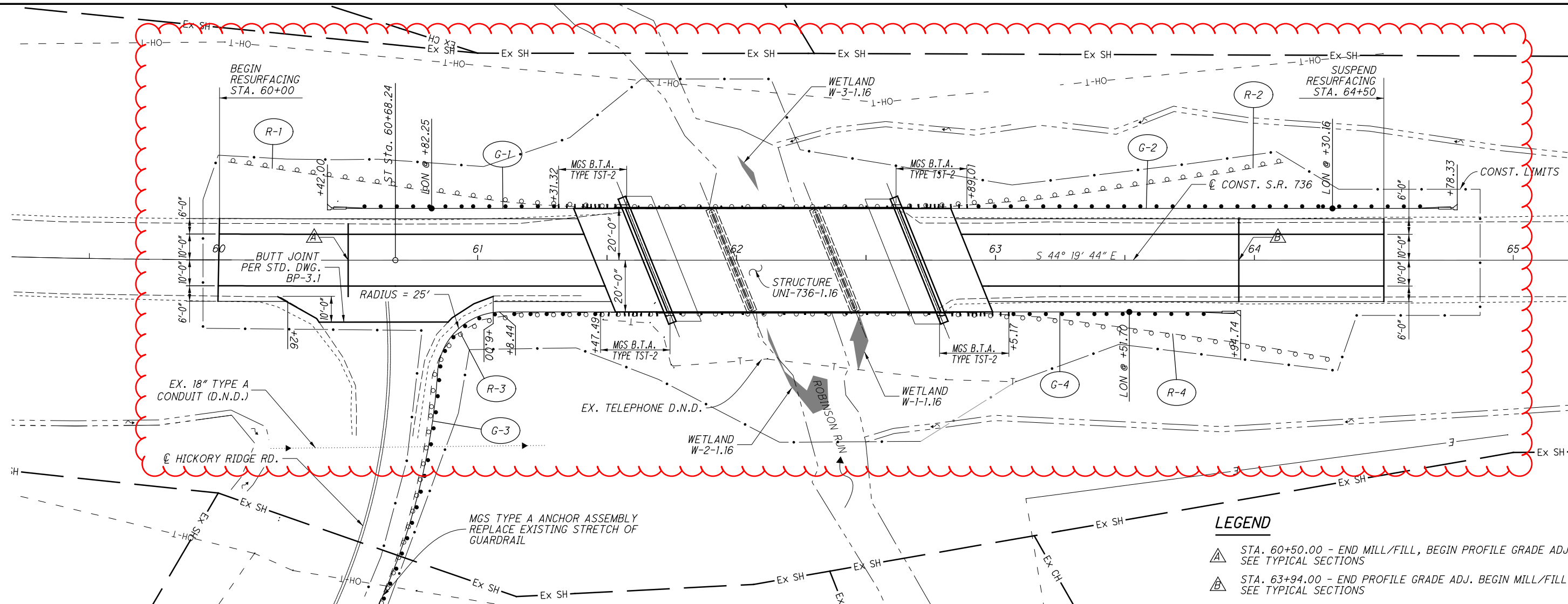
SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
11	12	13									02/STR/13	03/STR/10						
1											1		632	90400	1	EACH	TRAFFIC SIGNALS SIGNALIZATION, MISC.: MICROWAVE DETECTOR	18
																	STRUCTURE OVER 20 FOOT SPAN (UNI-736-0116) SEE SHEET 45	
																	STRUCTURE OVER 20 FOOT SPAN (UNI-736-0199) SEE SHEET 69	
																	MAINTENANCE OF TRAFFIC	
		6									6		614	12384	6	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
												LS	614	12420	LS		DETOUR SIGNING	
35												35	614	13000	35	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
		25									25		614	13310	25	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
		25									25		614	13360	25	EACH	OBJECT MARKER, TWO WAY	
	8											8	614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	19
		0.43									0.43		614	21550	0.43	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
		0.3									0.3		614	22360	0.3	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
		36									36		614	26000	36	FT	WORK ZONE STOP LINE, CLASS I	
											LS		615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
		347									347		615	20000	347	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
1											1		616	10000	1	MGAL	WATER	
		940									940		622	41100	940	FT	PORTABLE BARRIER, UNANCHORED	
		170									170		622	41100	170	FT	PORTABLE BARRIER, ANCHORED	
											LS	LS	614	11000	LS		INCIDENTALS	
											LS	LS	623	10000	LS		MAINTAINING TRAFFIC	
											LS	LS	624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	16
																	MOBILIZATION	

GENERAL SUMMARY

UNI-736-(1.16)(1.99)

PART 2

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LEGEND

- STA. 60+50.00 - END MILL/FILL, BEGIN PROFILE GRADE ADJ. SEE TYPICAL SECTIONS
- STA. 63+94.00 - END PROFILE GRADE ADJ. BEGIN MILL/FILL SEE TYPICAL SECTIONS

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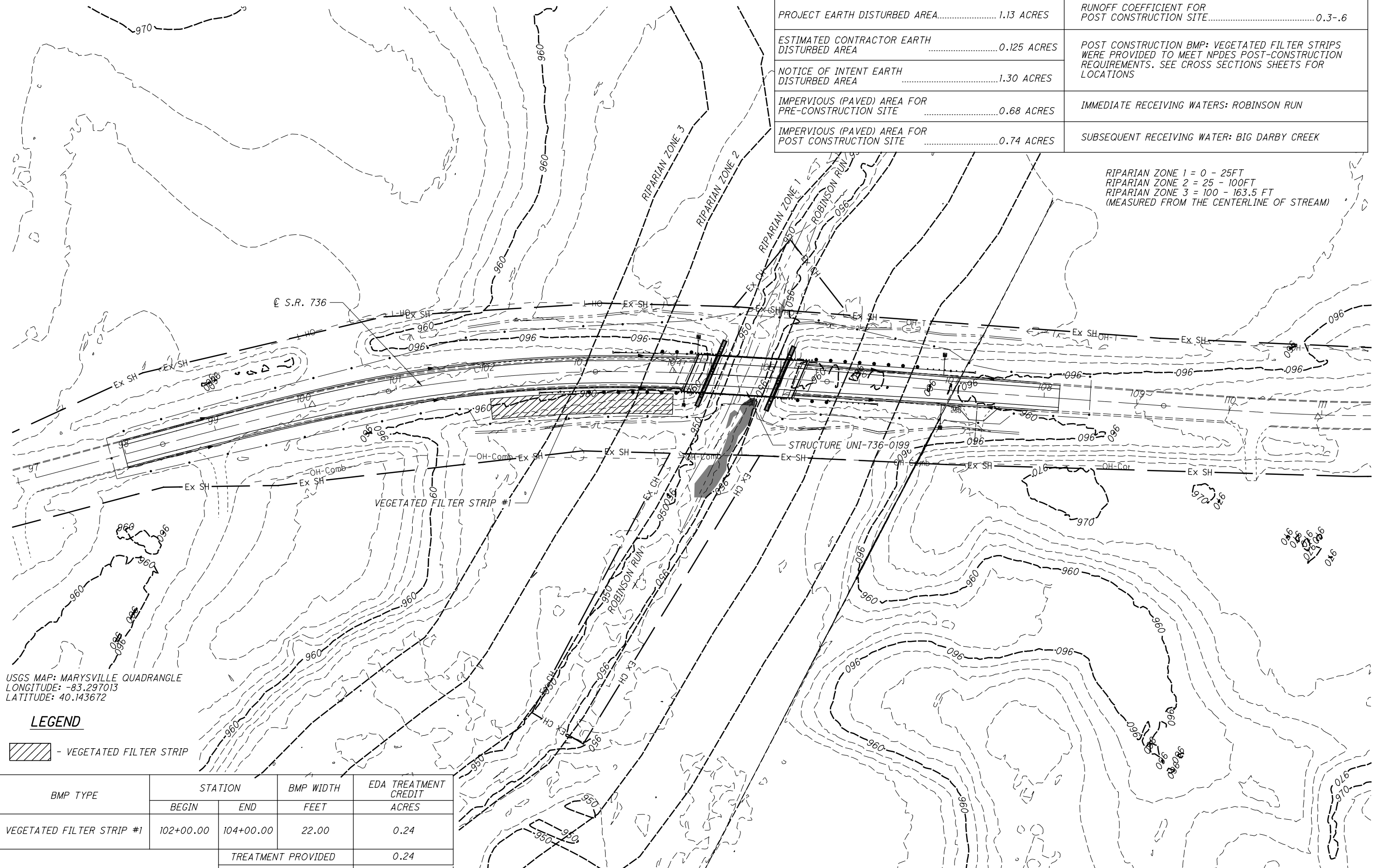
0 20 40
10
HORIZONTAL
SCALE IN FEET

PLAN & PROFILE
S.R. 736 STA. 59+00.00 TO STA. 65+25.00

UNI-736-(1.16)(1.99)
PART 2

26
99

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USGS MAP: MARYSVILLE QUADRANGLE
 LONGITUDE: -83.297013
 LATITUDE: 40.143672

LEGEND

- VEGETATED FILTER STRIP

BMP TYPE	STATION		BMP WIDTH FEET	EDA TREATMENT CREDIT ACRES
	BEGIN	END		
VEGETATED FILTER STRIP #1	102+00.00	104+00.00	22.00	0.24
	TREATMENT PROVIDED			0.24
	TREATMENT REQUIRED			0.22

PROJECT DATA

TOTAL AREA (RIGHT-OF-WAY).....	3.60 ACRES	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.3-.6
PROJECT EARTH DISTURBED AREA.....	1.13 ACRES	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE.....	0.3-.6
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.125 ACRES	POST CONSTRUCTION BMP: VEGETATED FILTER STRIPS WERE PROVIDED TO MEET NPDES POST-CONSTRUCTION REQUIREMENTS. SEE CROSS SECTIONS SHEETS FOR LOCATIONS	
NOTICE OF INTENT EARTH DISTURBED AREA	1.30 ACRES	IMMEDIATE RECEIVING WATERS: ROBINSON RUN	
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	0.68 ACRES	SUBSEQUENT RECEIVING WATER: BIG DARBY CREEK	
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	0.74 ACRES		

RIPARIAN ZONE 1 = 0 - 25FT
 RIPARIAN ZONE 2 = 25 - 100FT
 RIPARIAN ZONE 3 = 100 - 163.5 FT
 (MEASURED FROM THE CENTERLINE OF STREAM)

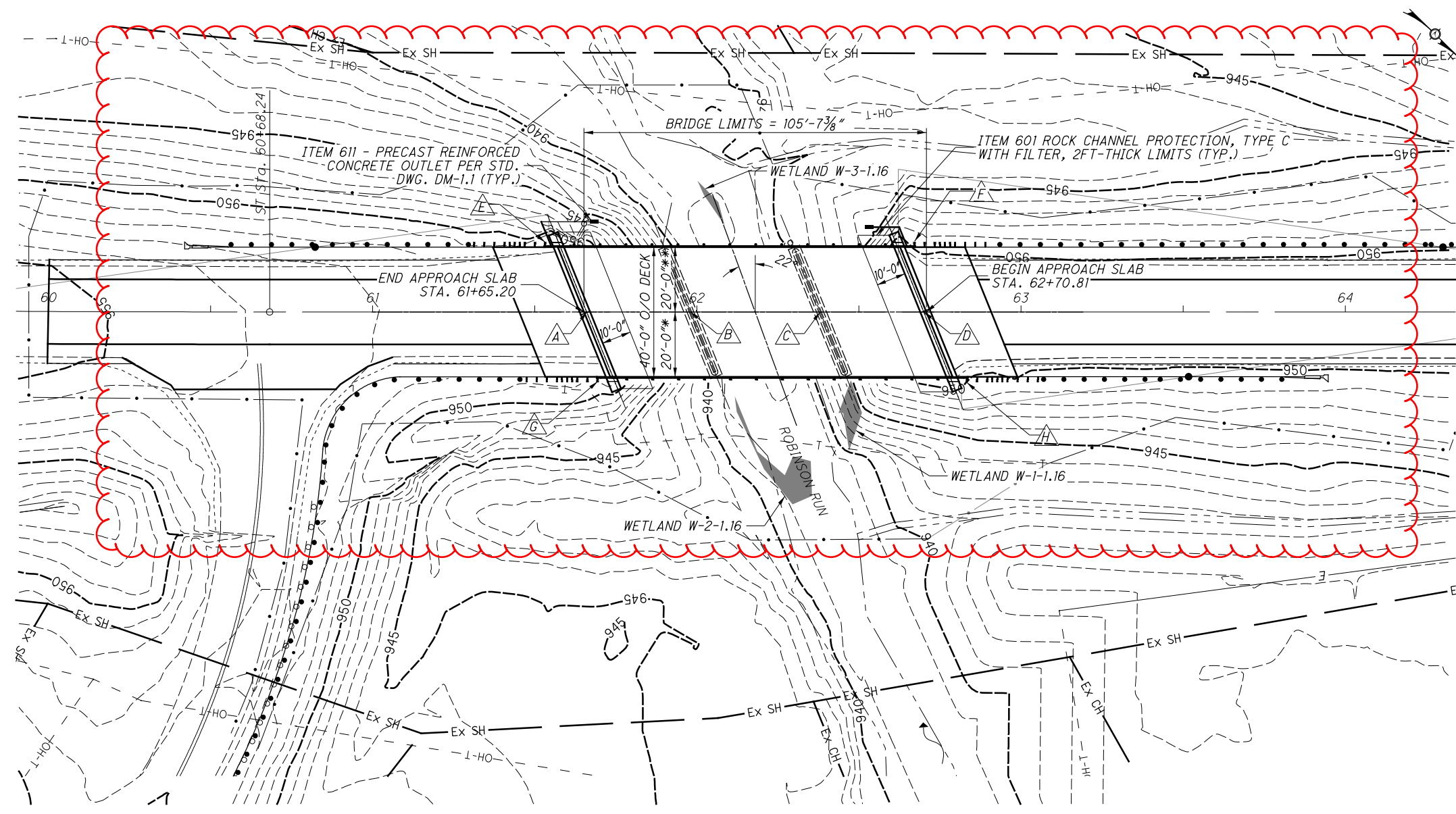


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SITE PLAN
UNI-736-1.99

UNI-736-(1.16)(1.99)
PART 2

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BENCHMARK DATA			
BM #1 STA. 57+47.81,	ELEV. 961.51,	OFFSET 20.92,	RT
BM #2 STA. 61+54.19,	ELEV. 951.39,	OFFSET 23.35,	LT
BM #3 STA. 62+61.47,	ELEV. 950.17,	OFFSET 22.28,	LT
BM #4 STA. 62+80.86,	ELEV. 950.06,	OFFSET 23.57,	RT

NOTES
 EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:
 2019 ADT = 2,200 2019 ADTT = 44
 2039 ADT = 2,600 2039 ADTT = 52
 DIRECTIONAL DISTRIBUTION = 53%

- LEGEND**
- * - PHASE 1 CONSTRUCTION
 - ** - PHASE 2 CONSTRUCTION
- △ CENTERLINE OF REAR ABUT STA. 61+66.00
 - △ PIER 1 C BEARING STA. 61+98.00
 - △ PIER 2 C BEARING STA. 62+38.00
 - △ CENTERLINE OF FWD. ABUT STA. 62+70+00.00
 - △ FIRST MOUNTED TST-2 RAILING POST STA. 61+53.20
 - △ LAST MOUNTED TST-2 RAILING POST STA. 62+67.14
 - △ FIRST MOUNTED TST-2 RAILING POST STA. 61+69.36
 - △ LAST MOUNTED TST-2 RAILING POST STA. 62+83.30

EXISTING STRUCTURE

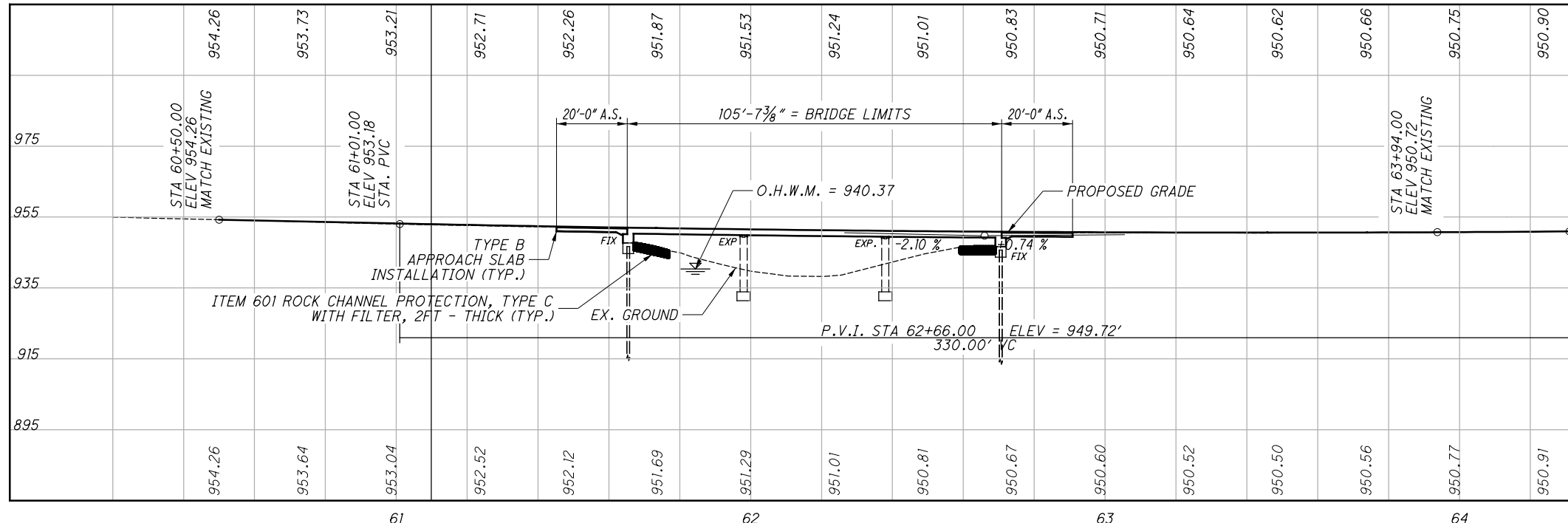
TYPE: CONTINUOUS REINFORCED CONCRETE SLAB SUPPORTED ON CAPPED PILE ABUTMENTS AND WALL TYPE PIERS ON SPREAD FOOTINGS

SPANS: 32'-0" - 40'-0" - 32'-0"
 ROADWAY: 40'-0" F/F RAILING
 LOADING: HS-20-44
 SKEW: 22° RIGHT FORWARD
 APPROACH SLABS: AS-1-67 (25' LONG)
 ALIGNMENT: TANGENT
 CROWN: 0.016 FT/FT
 STRUCTURAL FILE NUMBER: 8003092
 DATE BUILT: 1971
 DISPOSITION: REMOVE & REPLACE SUPERSTRUCTURE

PROPOSED STRUCTURE

TYPE: CONTINUOUS REINFORCED CONCRETE SLAB SUPPORTED ON CAPPED PILE ABUTMENTS AND WALL TYPE PIERS ON SPREAD FOOTINGS

SPANS: 32'-0" - 40'-0" - 32'-0"
 ROADWAY: 40'-0" F/F RAILING
 LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE
 SKEW: 22° RIGHT FORWARD
 APPROACH SLABS: 20'-0" LONG (AS-1-15)
 ALIGNMENT: TANGENT
 CROWN: 0.016 FT/FT
 COORDINATES: LATITUDE 40° 08' 06"
 LONGITUDE 83° 17' 13"



DESIGN AGENCY: OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 6
 DATE: 1/27/2024
 STRUCTURE FILE NUMBER: 8003092
 DRAWN: MJR
 CHECKED: AMH
 S.R. 736
 STA. 60+20.00
 STA. 64+75.00
SITE PLAN
 BRIDGE NO. UNI-736-0116
 OVER ROBINSON RUN
UNI-736-(1.16)(1.99)
PART 2
 PID No. 107000
 1/22
 43
 99

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15	DATED/REVISED	1/20/23
AS-2-15	DATED/REVISED	1/20/23
CS-1-08	DATED/REVISED	1/15/21
DS-1-92	DATED/REVISED	7/15/22
PCB-91	DATED/REVISED	7/17/20
TST-2-21	DATED/REVISED	7/21/23

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN LOADING:

DESIGN LOADING: HL-93

FUTURE WEARING SURFACE (FWS) OF 0.060 K/SF

DESIGN DATA:

CONCRETE CLASS, QC1 - COMPRESSIVE STRENGTH 4.0 KSI

CONCRETE CLASS, QC2 - COMPRESSIVE STRENGTH 4.5 KSI

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK.

EXISTING STRUCTURE VERIFICATION:

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

REMOVALS OVER WATER:

REASONABLE CARE SHALL BE USED WHEN REMOVING MATERIAL OVER WATER. ANY MATERIAL DROPPED SHALL BE IMMEDIATELY REMOVED FROM THE WATER AND DISPOSED OF AWAY FROM THE SITE EXCEPT FOR MASONRY MATERIAL WHICH MAY BE USED FOR BANK PROTECTION AS APPROVED BY THE ENGINEER.

ASBESTOS NOTIFICATION:

AN ASBESTOS SURVEY OF THIS BRIDGE CARRYING S.R. 736 OVER ROBINSON RUN (STRUCTURE NO. UNI-736-0116, EXISTING STRUCTURE FILE NUMBER 8003092) SUBJECT TO REPAIR WAS CONDUCTED BY AN OHIO DEPARTMENT OF HEALTH (ODH) CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST AND CERTIFIED ASBESTOS HAZARD ABATEMENT SPECIALIST WITH THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT). THE ASBESTOS SURVEY DETERMINED THAT ASBESTOS IS NOT PRESENT ON THE BRIDGE STRUCTURE.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORMS, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER, WILL BE PROVIDED TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE "OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION FORM", AND SUBMIT THE FORM TO THE ADDRESS BELOW AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION.

OHIO E.P.A.
CENTRAL DISTRICT AIR POLLUTION CONTROL
ATTN: MS. STEPHANIE HABINAK
D.A.P.C. C.D.O.
P.O. BOX 1049
COLUMBUS, OHIO 43216-1049
(614) 728-0673
FAX: (614) 728-3898

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER. INFORMATION REQUIRED ON THE FORM WILL INCLUDE 1) THE CONTRACTOR'S NAMES AND ADDRESSES, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED. A COPY OF THE OEPA FORM IS AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 6 OFFICE, 400 EAST WILLIAM STREET, DELAWARE, OHIO 43015.

BASIS FOR PAYMENT THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE:

DESCRIPTION: THIS WORK CONSISTS OF THE REMOVAL OF THE CONCRETE DECK. THIS WORK ALSO INCLUDES PORTIONS OF THE EXISTING PIERS TO BE REMOVED. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK AND PIER CAP REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

REMOVAL METHODS:

PORTIONS OF EXISTING PIER AND ABUTMENT FOOTINGS ARE TO BE PRESERVED AS DETAILED WITHIN THE PLANS. UNLESS OTHERWISE NOTED WITHIN THE PLANS ALL CONCRETE SHALL BE REMOVED BY MEANS OF CUTTING AND OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A CUBIC YARD BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUBSTRUCTURE:

ALL CONCRETE REMOVED AS DETAILED IN THE PLANS SHALL BE REMOVED BY MEANS OF CUTTING AND OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A CUBIC YARD BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUBSTRUCTURE.

MECHANICAL SPLICE CONNECTORS:

THE PLAN DETAILS ASSUME THE USE OF A SCREW LOCKING MECHANICAL CONNECTOR TO SPLICE REINFORCING STEEL MEMBERS CONSTRUCTED AS PART OF THE STAGED CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO PROVIDE AN APPROVED TYPE OF MECHANICAL CONNECTOR FOR REINFORCING BARS. INSTALLATION OF CONNECTORS SHALL CONFORM TO MANUFACTURER'S RECOMMENDED PROCEDURES.

CONNECTORS AND DOWEL BARS USED WITH EPOXY COATED BARS SHALL BE EPOXY COATED. COATING FOR BOTH CONNECTORS AND BARS SHALL CONFORM TO THE SAME SPECIFICATIONS. COATINGS WHICH HAVE BEEN DAMAGED OR WHICH OTHERWISE DO NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY AND UNIFORMITY MAY BE REPLACED WITH MATERIAL THAT MEETS THE SPECIFICATIONS.

CONNECTORS AND DOWEL BARS SHALL CONFORM TO ITEM 509 AND ARE CONSIDERED INCIDENTAL TO THE BID PRICE PER POUND FOR ITEM 509.

ITEM 510- DOWEL HOLES, WITH NON-SHRINK, NONMETALLIC GROUT, AS PER PLAN

PRIOR TO DRILLING DOWEL HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR. DRILL DOWEL HOLES WHERE SHOWN IN THE PLANS EXCEPT AS NOTED HEREIN. INSTALL REINFORCING STEEL ACCORDING TO ITEM 510 USING NON-SHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20.

ITEM 511 - CLASS QC2 CONCRETE SUPERSTRUCTURE, AS PER PLAN

ALL FALSEWORK SHALL BE DESIGNED AND PLACED AS PER CMS 508. PHASE 1 FALSEWORK SHALL REMAIN IN PLACE UNTIL THE DECK CONCRETE OF PHASES 1 & 2 HAVE FULLY CURED PER CMS 511.14. AT THAT POINT, ALL FALSEWORK SHALL BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FALSEWORK THAT WILL SUPPORT THE DEAD LOAD OF THE SUPERSTRUCTURE. PAYMENT FOR THESE FALSEWORK RESTRICTIONS SHALL BE INCLUDED WITH ITEM 511 CLASS QC2 CONCRETE SUPERSTRUCTURE, AS PER PLAN.

DECK POURING LIMITATIONS:

POURING OF APPROACH SLABS CONCURRENTLY WITH THE DECK IS PROHIBITED. THE CONTRACTOR SHALL CONSTRUCT THE DECK AND APPROACH SLABS USING TWO SEPARATE POURS. FOLLOWING THE APPROACH SLAB POURS THE CONTRACTOR SHALL SAW AND SEAL THE BRIDGE JOINT AS PER ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN.

ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN

UPON COMPLETION OF THE PROPOSED APPROACH SLAB THE CONTRACTOR SHALL SAW CUT ALONG THE APPROACH SLAB AND BRIDGE LIMIT, AS DETAILED IN THE PLANS, AN AREA 1" WIDE BY 2" DEEP AND FILL THIS AREA WITH HOT APPLIED JOINT SEALER 705.04.

ITEM 526 REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN

PROVIDE GALVANIZED REINFORCING STEEL CONFORMING TO CMS 709.16. PAYMENT FOR GALVANIZED REINFORCING STEEL IS INCLUDED WITH THE SQUARE YARD BID FOR ITEM 526 REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN.

ENVIRONMENTAL MUSSEL SURVEY:

THIS STREAM HAS KNOWN OR SUSPECTED POPULATIONS OF FRESHWATER MUSSELS AND IN-WATER WORK IS NOT PERMITTED UNTIL THE SURVEY HAS BEEN COMPLETED BY ODOT FORCES. CONTRACTOR SHALL VERIFY THAT THE SURVEY HAS BEEN PERFORMED AND ACCEPTED BY THE RESOURCE AGENCIES PRIOR TO STARTING WORK IN THE WATER. CONTACT JANICE GARTNER (740-833-8362) FOR VERIFICATION.

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UNJ-736-(1.16)-(1.99)	BRIDGE NOTES	DESIGNED	MJR	CHECKED	AMH
		DRAWN	MJR	REVISED	
PART 2	PID No. 107000	REVIEWED	JPH	DATE	1/27/2024
		STRUCTURE FILE NUMBER			8003092
2	22	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 6			
44					
99					

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ESTIMATED QUANTITIES									
ITEM	EXTENSION	TOTAL (02/STR/13)	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SHEET #
202	11301	242	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE			242		2/23
202	11301	16	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUBSTRUCTURE	16				2/23
202	22900	134	SY	APPROACH SLAB REMOVED				134	
202	23500	648	SY	WEARING COURSE REMOVED				648	
202	38500	212	FT	BRIDGE RAILING REMOVED				212	
503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING					
503	21300	LS	LS	UNCLASSIFIED EXCAVATION					
509	26000	60,117	LB	GALVANIZED STEEL REINFORCEMENT	1,141		59,605		
510	10001	118	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	118				2/23
511	31613	338	CY	CLASS QC2 CONCRETE WITH QC/OA, SUPERSTRUCTURE, AS PER PLAN			338		2/23
511	43510	8	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	8				
512	10050	100	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	49		51		
516	13200	139	SF	1/2" PREFORMED EXPANSION JOINT FILLER	139				
516	13600	121	SF	1" PREFORMED EXPANSION JOINT FILLER	121				
516	14014	106	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	106				
516	31011	87	FT	2" DEEP JOINT SEALER, AS PER PLAN				87	2/23
516	42600	80	FT	ELASTOMERIC BEARING PAD, MISC.: (2" X 9")		80			14/22
517	70100	224	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)				224	
518	21200	37	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				37	
518	22300	264	FT	SPECIAL - STEEL DRIP STRIP				264	
518	40000	129	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				129	
518	40010	30	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS				30	
526	15001	178	SY	REINFORCED CONCRETE APPROACH SLABS (T = 13"), AS PER PLAN				178	
526	90020	39	SY	TYPE B INSTALLATION				39	
601	32200	75	CY	ROCK CHANNEL PROTECTION, TYP C WITH FILTER				75	
611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET				2	
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1	

DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION DISTRICT 6

REVIEWED DATE
JPH 1/27/2024
STRUCTURE FILE NUMBER
8003092

DRAWN MUR
MUR REVIS
AMH

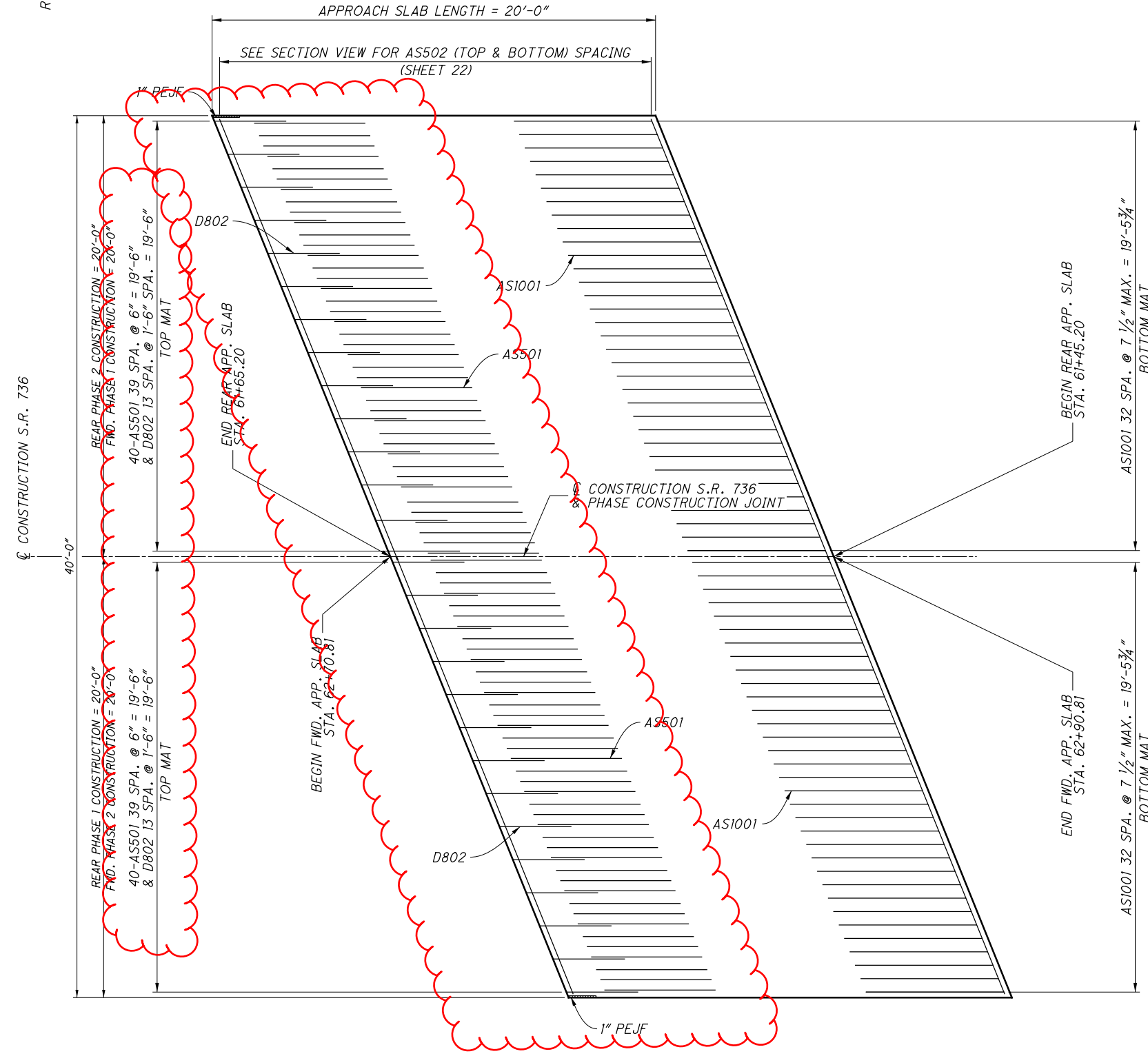
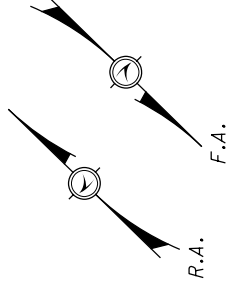
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ESTIMATED QUANTITIES
BRIDGE NO. UNI-736-0116
OVER ROBINSON RUN

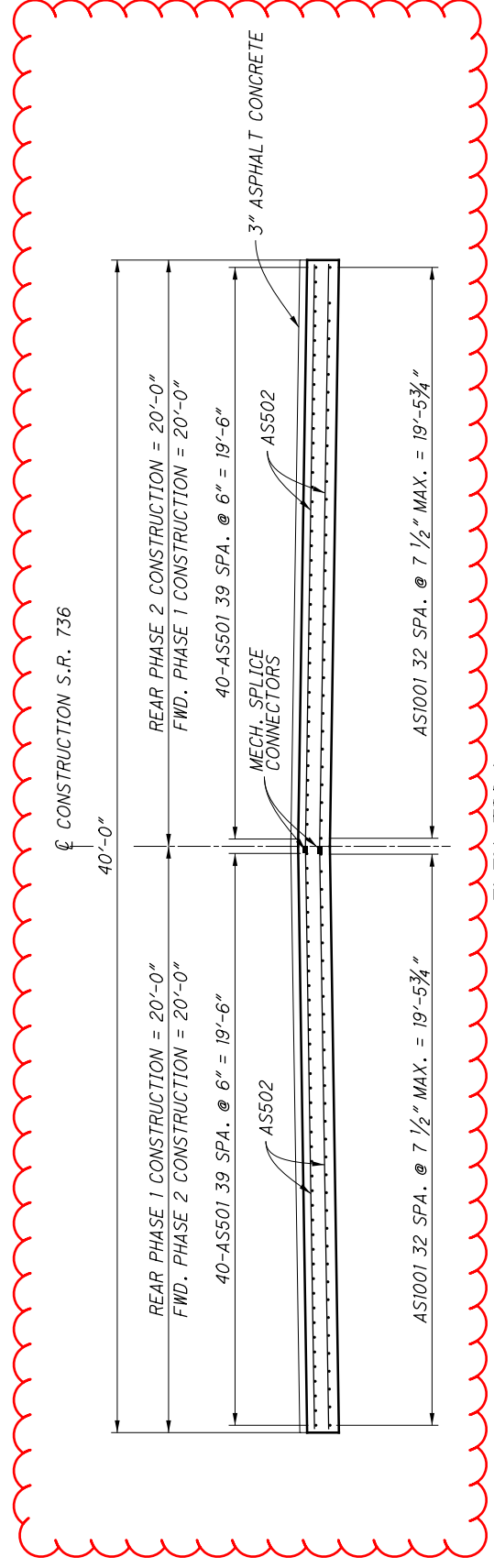
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PART 2
PID No. 107000

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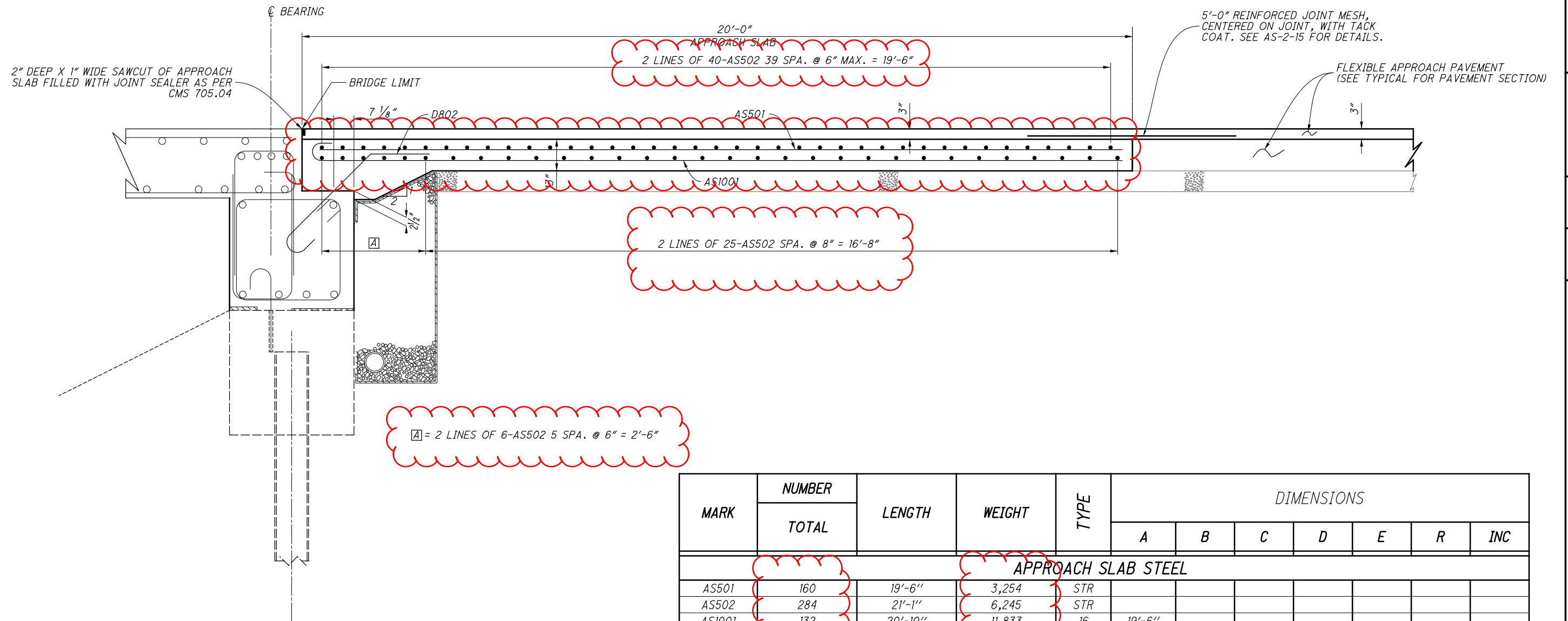


PLAN
REAR & FWD. APPROACH SLAB

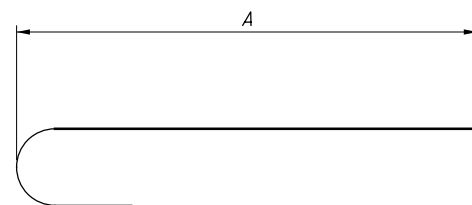


JUNI-736-(1.16)(1.99) PART 2 PID No. 107000	APPROACH SLAB DETAILS BRIDGE NO. UNI-736-0116 OVER ROBINSON RUN				DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 6
	20/22	DESIGNED MJR	DRAWN MJR	REVIEWED JPH	DATE 1/27/2024

I:\ProjectData\07000_UNI-736-(1.16)(1.99).Part 2\Design\Structures\UNI736-1.16\Sheets\95776_SM002.dgn APPROACH SLAB_SECTION 4/29/2024 12:41:08 PM jhipp

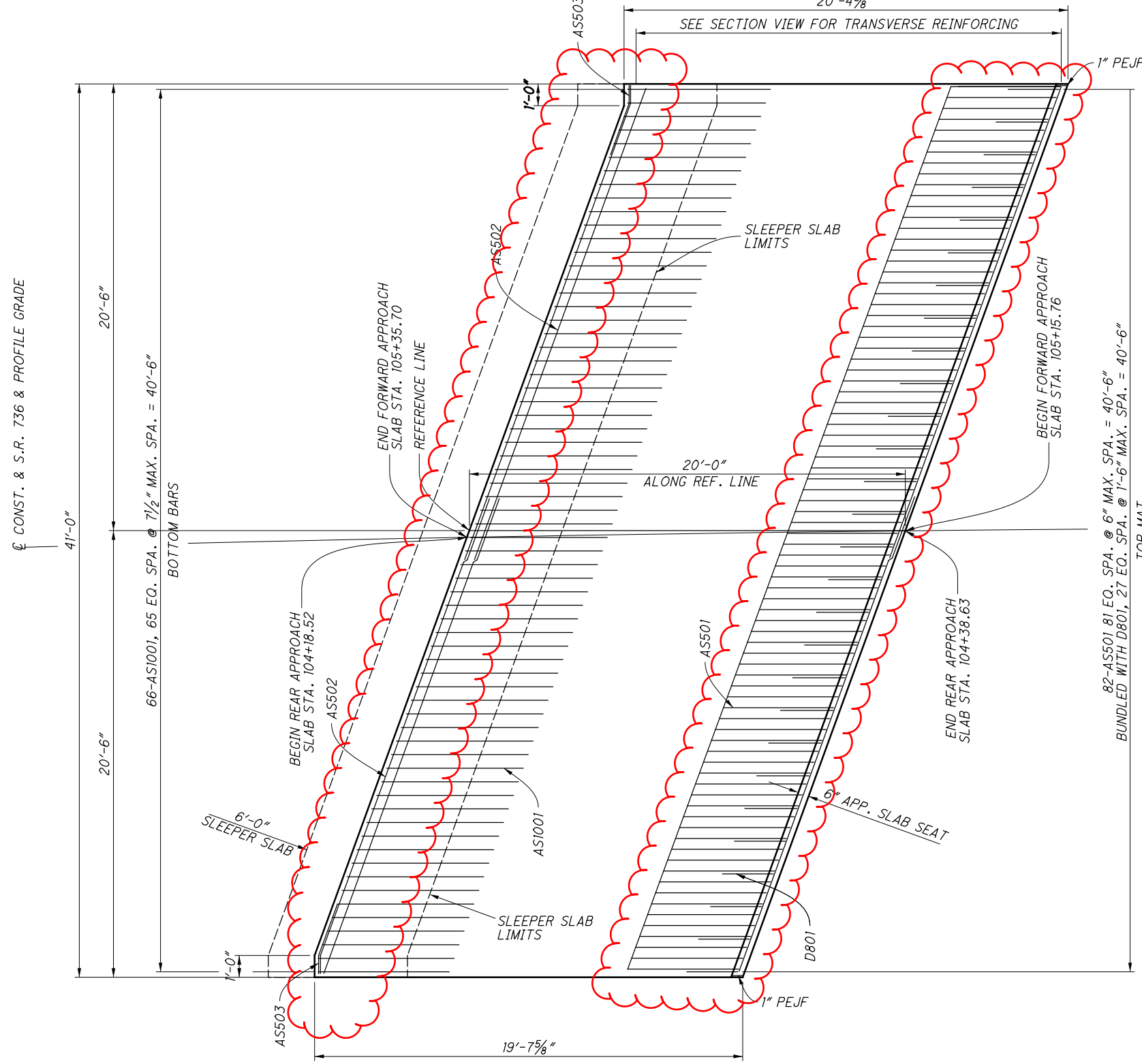
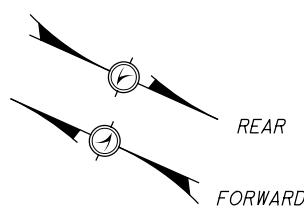


MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
APPROACH SLAB STEEL											
AS501	160		19'-6"	3,254	STR						
AS502	284		21'-1"	6,245	STR						
AS1001	132		20'-10"	11,833	16	19'-6"					
			TOTAL	21,332		TOTAL FOR ESTIMATING PURPOSES ONLY (BOTH APPROACH SLABS)					



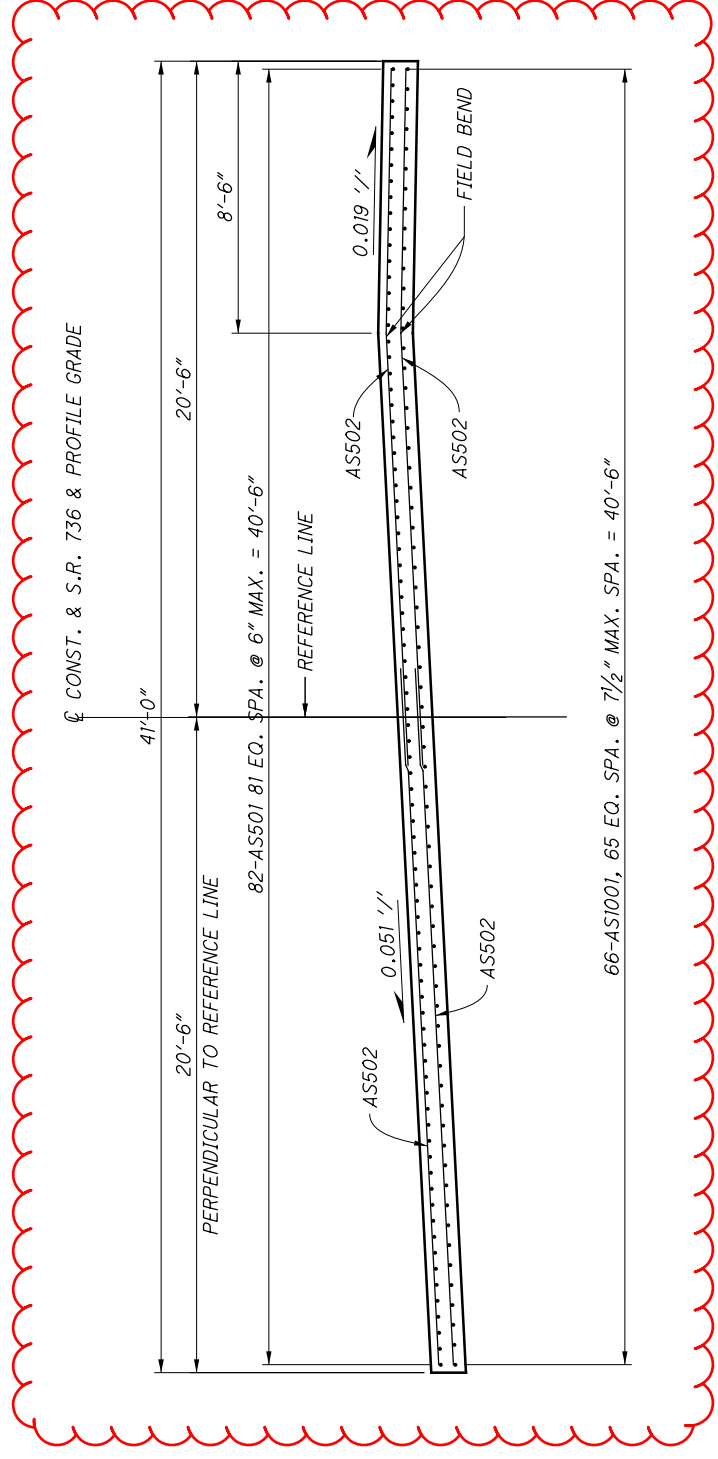
TYPE-16

UNJ-736-(1.16)(1.99) PART 2 PID No. 107000	APPROACH SLAB SECTION BRIDGE NO. UNI-736-0116 OVER ROBINSON RUN	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 6	DATE 1/27/2024 STRUCTURE FILE NUMBER 8003092
DESIGNED MJR	DRAWN MJR	REVIEWED JPH	CHECKED AMH
22 / 22	64 / 99		



PLAN

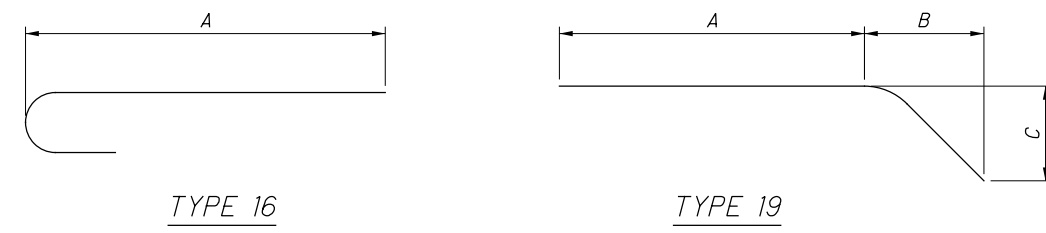
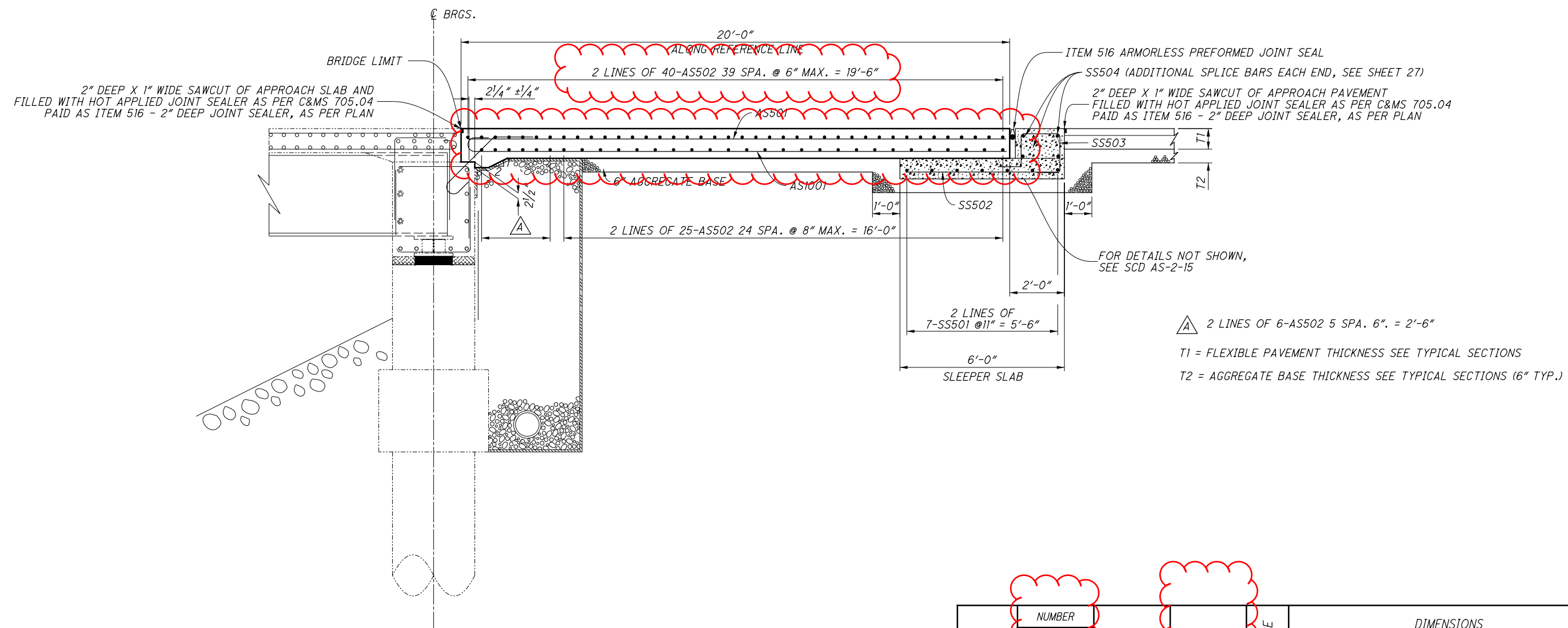
(REAR APPROACH SLAB SHOWN, FORWARD APPROACH SLAB OPPOSITE HAND)



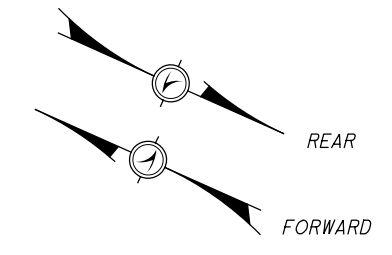
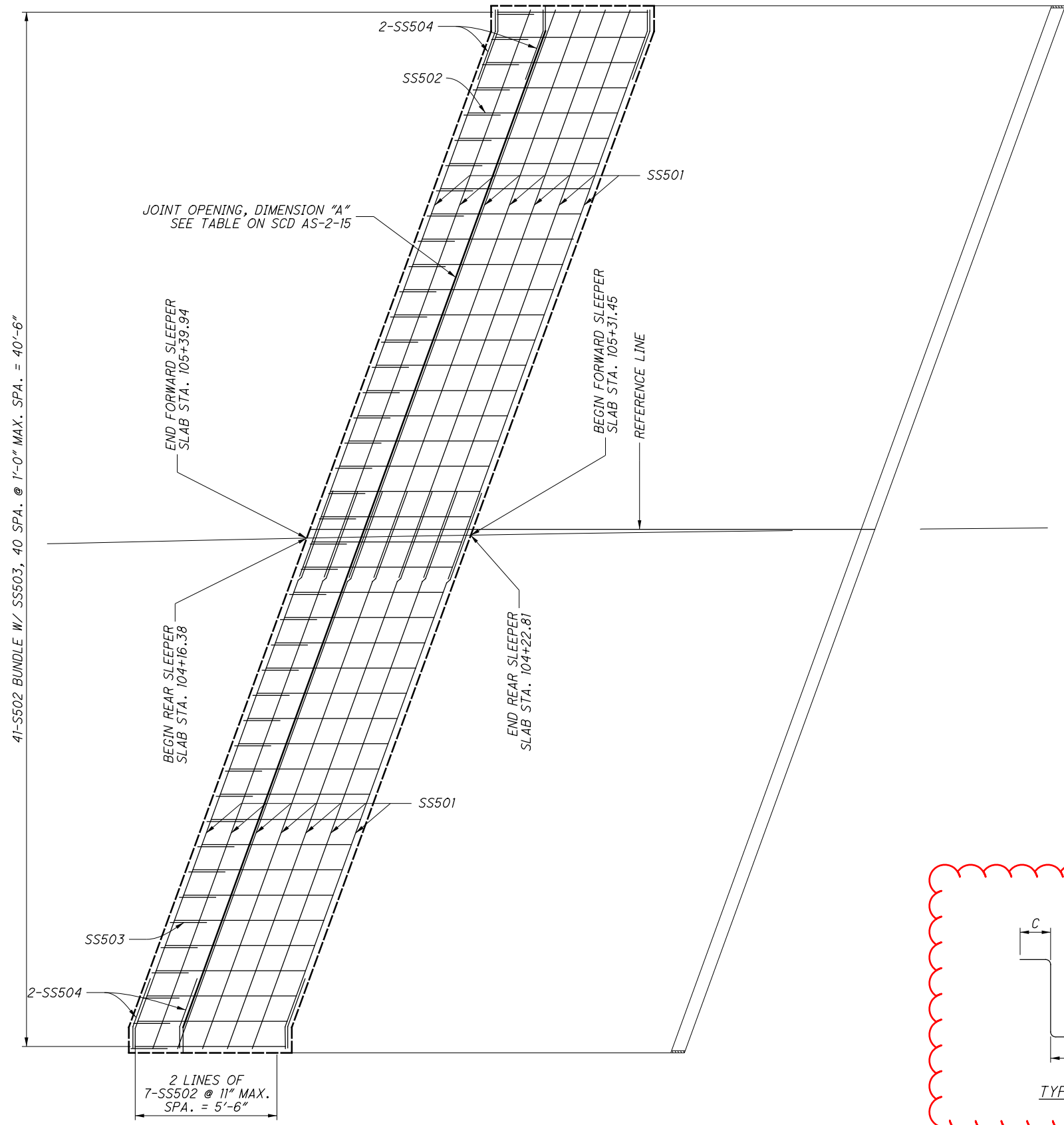
ELEVATION

(REAR APPROACH SLAB SHOWN, FORWARD APPROACH SLAB OPPOSITE HAND)

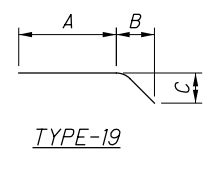
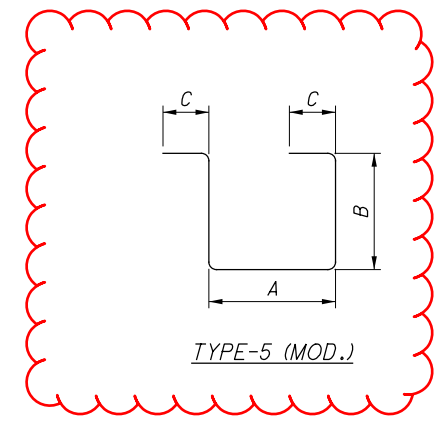
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MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL					A	B	C	D	E	R	INC
REAR APPROACH SLAB STEEL												
AS501	82		19'-5"	1,661	STR	19'-5"						
AS502	142		23'-0"	3,406	STR	23'-0"						
AS503	2		3'-5"	7	19	0'-8"	2'-5"	0'-8"				
AS1001	66		20'-10"	5,917	16	19'-5"						
				TOTAL		10,991	TOTAL FOR ESTIMATING PURPOSES ONLY					
FORWARD APPROACH SLAB STEEL												
AS501	82		19'-5"	1,661	STR	19'-5"						
AS502	142		23'-0"	3,406	STR	23'-0"						
AS503	2		3'-5"	7	19	0'-8"	2'-5"	0'-8"				
AS1001	66		20'-10"	5,917	16	19'-5"						
				TOTAL		10,991	TOTAL FOR ESTIMATING PURPOSES ONLY					



PLAN



MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS											
		TOTAL				A	B	C	D	E	R	INC					
SS501	22	22	23'-0"	528	STR	23'-0"											
SS502	41	41	5'-11"	253	STR	5'-11"											
SS503	41	41	5'-5"	232	5	1'-5"	0'-10"										
SS504	8	8	3'-5"	29	19	0'-8"	2'-5"	0'-8"									
TOTAL				1,042		TOTAL FOR ESTIMATING PURPOSES ONLY											

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS											
		TOTAL				A	B	C	D	E	R	INC					
SS501	22	22	23'-0"	528	STR	23'-0"											
SS502	41	41	5'-11"	253	STR	5'-11"											
SS503	41	41	5'-5"	232	5	1'-5"	0'-10"										
SS504	8	8	3'-5"	29	19	0'-8"	2'-5"	0'-8"									
TOTAL				1,042		TOTAL FOR ESTIMATING PURPOSES ONLY											