

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

LIC-40-13.15

UNION TOWNSHIP
LICKING COUNTY

FOR PART 2, SEE LIC-40-9.37

FEDERAL PROJECT NUMBER

E191 (297)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

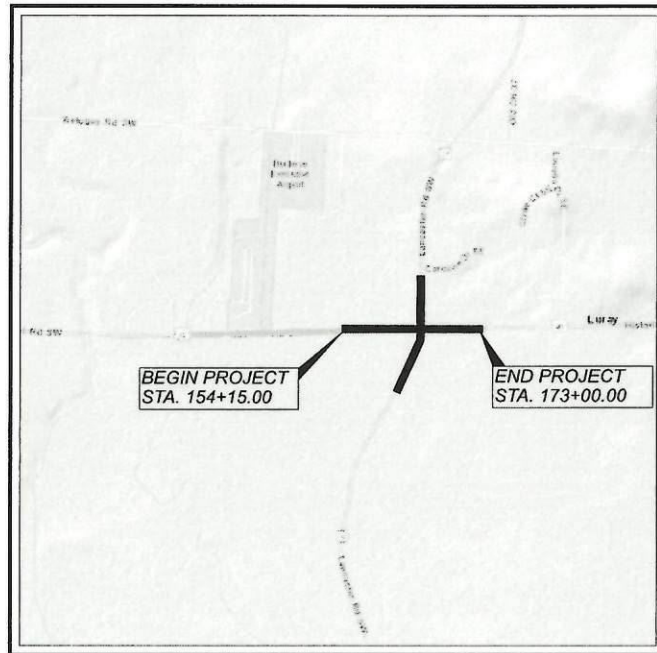
THIS PROJECT INCLUDES THE WIDENING OF 0.9 MILES AND RESURFACING OF AN ADDITIONAL 0.5 MILES OF ROADWAY AT THE US-40 AND SR-37 INTERSECTION BY PROVIDING A LEFT-TURN LANE ON EACH APPROACH, AN EASTBOUND DEDICATED RIGHT TURN LANE SOUTHBOUND ONTO SR-37 AND RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNALS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 8.46 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 8.71 ACRES

2019 SPECIFICATIONS

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



LOCATION MAP

LATITUDE: 39°57'28" LONGITUDE: 82°31'57"

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

DESIGN DESIGNATION

	US-40	SR-37
OPENING YEAR ADT (2023)	5,400	13,000
DESIGN YEAR ADT (2043)	7,000	17,500
DESIGN HOURLY VOLUME (2043)	700	2,100
DIRECTIONAL DISTRIBUTION	60%	67%
TRUCKS (24 HOUR B&C)	5%	7%
DESIGN SPEED	60 MPH	60 MPH
LEGAL SPEED	55 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	RURAL MAJOR COLLECTOR	RURAL MAJOR COLLECTOR
NHS PROJECT	NO	NO

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS
DEGREE OF CURVE (SR 37)	11/10/2020	2
SUPERELEVATION (SR 37)	11/10/2020	2
SHOULDER WIDTH (SR 37)	11/10/2020	3-4
S&D: CREST VERT. CURVES (US 40)	11/10/2020	17
SHOULDER WIDTH (US 40)	11/10/2020	3-4

ADA DESIGN WAIVER ----- NONE REQUIRED

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org
Before You Dig

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

PLAN PREPARED BY:
TRC 1382 WEST 9TH STREET
SUITE 400
CLEVELAND, OHIO 44113

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ENGINEER'S SEAL:

MAINTENANCE OF TRAFFIC & SIGNAL PLANS



SIGNED: *Deborah Weaver*
DATE: 08/24/2022

ENGINEER'S SEAL:



SIGNED: *Timothy Shoemaker*
DATE: 8/26/2022

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	1/21/22	HL-30.11	1/15/21	MT-120.00	1/19/18	TC-85.10	4/17/20	800-2019	7/15/22	WATERWAY PERMIT 042922	
BP-4.1	7/19/13	HL-30.22	1/15/21			TC-85.21	7/16/21	809	1/15/21		
BP-4.2	7/20/12			TC-21.21	7/16/21	TC-85.22	1/19/18	821	4/20/12		
CB-2-2A, 2B, 2C	7/16/21	HW-2.1	7/20/18	TC-41.20	10/18/13			832	10/19/16		
CB-2-3, 2-4	7/16/21	HW-2.2	7/20/18	TC-41.30	10/18/13			836	1/19/19		
CB-2-5, 2-6	7/16/21			TC-41.41	7/19/19			872	1/21/22		
CB-3	7/16/21	MT-95.70	1/17/20	TC-42.20	10/18/13			874	4/17/20		
DM-1.1	7/17/20	MT-97.10	4/19/19	TC-52.10	10/18/13			875	1/18/19		
DM-1.2	7/16/21	MT-97.12	1/20/17	TC-52.20	1/15/21			902	7/19/19		
DM-4.1	7/17/20	MT-99.20	4/19/19	TC-64.10	7/16/21			909	4/15/22		
DM-4.2	7/20/12	MT-99.30	1/17/20	TC-65.10	1/17/14			921	4/20/12		
DM-4.3	1/15/16	MT-101.60	1/17/20	TC-65.11	7/21/17						
DM-4.4	1/15/16	MT-101.70	1/17/20	TC-71.10	7/16/21						
MH-3	7/16/21	MT-101.75	1/17/20	TC-81.11	7/16/21						
RM-1.1	1/15/21	MT-101.90	7/17/20	TC-83.20	7/21/17						
RM-4.2	4/17/20	MT-105.10	1/17/20	TC-84.20	10/18/13						

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

APPROVED: *Janet P. Savage*
DATE: 8/29/2022 DISTRICT DEPUTY DIRECTOR

APPROVED: *Jack Maheshbani*
DATE: 10/11/22 DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY	TRC
DESIGNER	KJM
REVIEWER	WAA
PROJECT ID	03-28-22
SHEET	110416
TOTAL	P.001 208

LIC - US 40-13.15 (PART 1, PART 2)
 220636 PID - 110416
 Dist 5 12/1/2022
 51-31-04-C17
 MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 8/26/2022 TIME: 2:41:41 P
 PW: \\trc-pw-bentley.com\trc-pw-0\Documents\5 - Projects\510416

ITEM 614, MAINTAINING TRAFFIC

ONE (1) LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON US 40 AND SR 37 EXCEPT FOR A PERIOD NOT TO EXCEED 6 DAYS DURING PHASE 3 WHEN THE INTERSECTION WILL BE CLOSED TO ALL THROUGH TRAFFIC UTILIZING THE DETOURS SHOWN ON SHEETS 23 AND 24. THE CLOSURE WILL BE PER PROPOSAL NOTE 121.

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

MEMORIAL DAY	LABOR DAY
FOURTH OF JULY	THANKSGIVING

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

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127)

CRITICAL WORK	RESTRICTED TIME PERIODS	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT
ENTIRE PROJECT	SEE RESTRICTIONS ABOVE FOR HOLIDAY TRAFFIC OR EVENT	EACH HOUR	\$1000

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 CLOSURES 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.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

ITEM 614, MAINTAINING TRAFFIC (CONT.)

NOTIFICATION TIME FRAME TABLE		
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO LICKING COUNTY
ROAD CLOSURE	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & <2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE LOCATIONS SHOWN IN THE PLANS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THE PLANS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE 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.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 100 M. GAL.

ITEM 614, MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B 25 CU. YD.

ITEM 616, WATER 1 M. GAL.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY:

EXCAVATION FOR MAINTAINING TRAFFIC 2950 CU. YD.
EMBANKMENT FOR MAINTAINING TRAFFIC 675 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

EARTHWORK FOR MAINTAINING TRAFFIC (CONT.)

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC AND INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN TWELVE INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.



DELINEATION OF PORTABLE AND PERMANENT BARRIER (CONT.)

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS, BIDIRECTIONAL

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

LEGEND

CL1	CENTER LINE, DOUBLE SOLID	A1	LANE ARROW
EW1	EDGE LINE, 6" (WHITE)	PB1	PORTABLE BARRIER
CH1	CHANNELIZING LINE, 8"	40	EXISTING SIGN
TR1	TRANSVERSE/DIAGONAL LINE	40	EXISTING SIGN TO BE REMOVED
SL1	STOP LINE	40	PROPOSED SIGN
DND = DO NOT DISTURB		IMPACT ATTENUATOR	
TYPE III BARRICADE			
PROPOSED	EXISTING		
±	±	ONE POST SIGN, GROUND MOUNTED	
±±	±±	TWO POST SIGN, GROUND MOUNTED	
±±±	±±±	SINGLE POST SIGN, BACK TO BACK, GROUND MOUNTED	

WORK ZONE PAVEMENT TO BE CONSTRUCTED DURING THIS PHASE

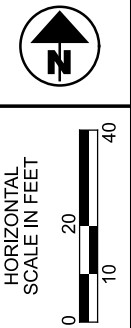
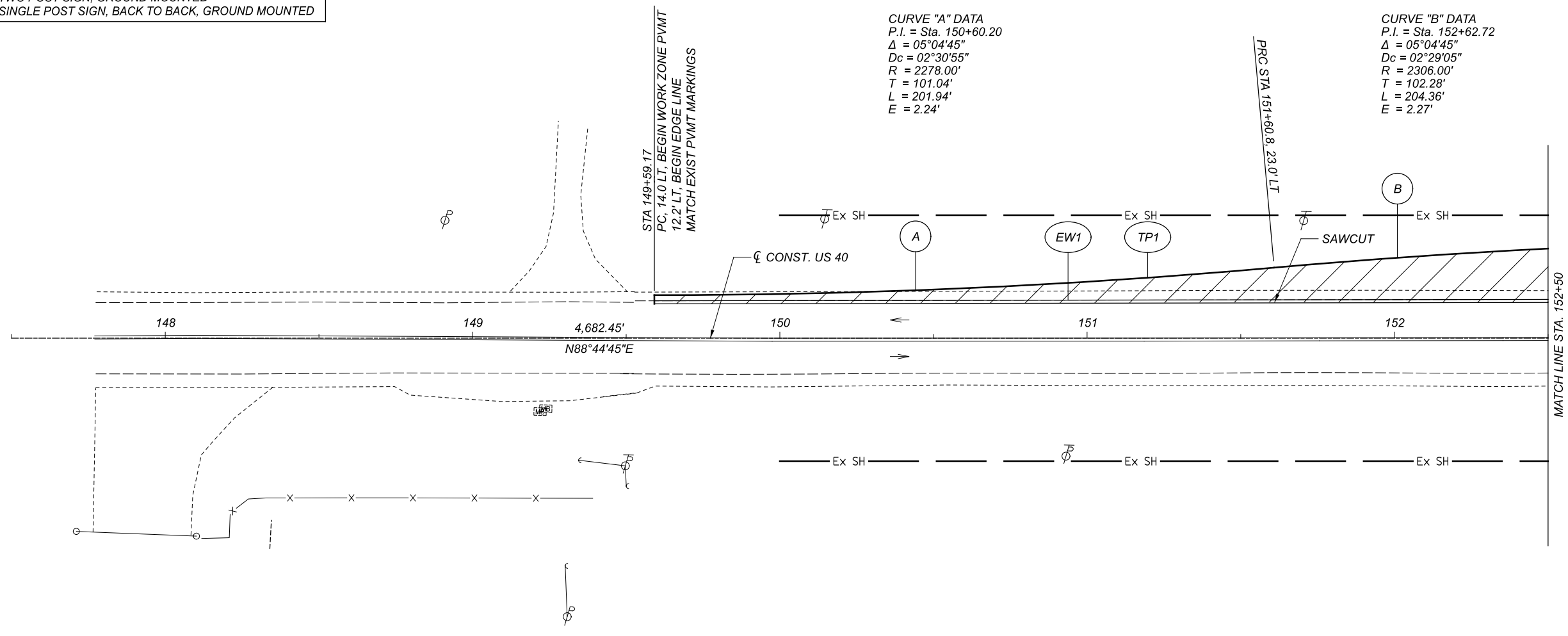
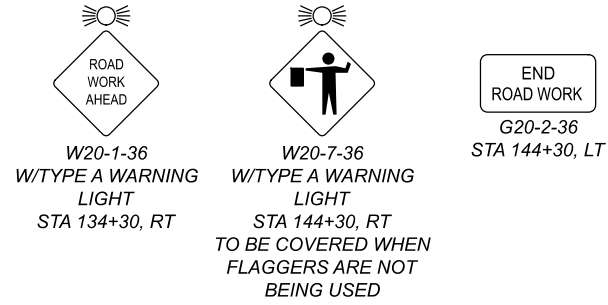
NOTES: DRUMS ALONG THE MAINLINE SHALL BE SPACED AT 40' C/C AND SHALL BE OFFSET 2' FROM THE EDGE LINE UNLESS OTHERWISE NOTED. DRUMS AT DRIVEWAYS SHALL BE SPACED AT 10' C/C UNLESS OTHERWISE NOTED.

ALL DIMENSIONS ARE TO THE FACE OF DRUMS OR POTABLE BARRIER.

THE CONTRACTOR SHALL PLACE SIGNS PER SCD MT-105.10

ALL WORK ZONE PAVEMENT MARKINGS APPLIED TO THE FINAL ASPHALT CONCRETE SURFACE COURSE BEFORE THE FINAL PAVEMENT MARKINGS ARE APPLIED SHALL BE CLASS III.

THE CONTRACTOR SHALL INSTALL THE FOLLOWING ADVANCE WARNING SIGNS AT THE LOCATIONS SHOWN PRIOR TO THE START OF PHASE 1 CONSTRUCTION. AT THE COMPLETION OF PHASE 1 THE SIGNS SHALL REMAIN IN PLACE FOR USE DURING SUBSEQUENT PHASES.



MAINTENANCE OF TRAFFIC - PHASE 1
 US 40 - STA 147+50 TO STA 152+50

DESIGN AGENCY

 CLIENT

DESIGNER
 EGD


REVIEWER
 DLW 05/24/22

PROJECT ID
 110416

SHEET TOTAL
 P.25 | 208

SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.007	P.008	P.008A	P.014	P.084	P.085	P.086	P.087	P.088			01/SAE/PV	02/SAF/CV						
DRAINAGE																		
25											25		611	02500	25	FT	8" CONDUIT, TYPE E	
50											50		611	03100	50	FT	10" CONDUIT, TYPE B	
25											25		611	03600	25	FT	10" CONDUIT, TYPE E	
					105						105		611	04900	105	FT	12" CONDUIT, TYPE D	
					308						308		611	05900	308	FT	15" CONDUIT, TYPE B	
					265						265		611	06100	265	FT	15" CONDUIT, TYPE C	
					155						155		611	06400	155	FT	15" CONDUIT, TYPE D	
					137						137		611	08900	137	FT	21" CONDUIT, TYPE B	
					134						134		611	09100	134	FT	21" CONDUIT, TYPE C	
					211						211		611	10600	211	FT	24" CONDUIT, TYPE C	
					179						179		611	12400	179	FT	27" CONDUIT, TYPE D	
					126						126		611	13900	126	FT	30" CONDUIT, TYPE D	
					150							150	611	16400	150	FT	36" CONDUIT, TYPE B	
					43							43	611	16600	43	FT	36" CONDUIT, TYPE C	
					64						64		611	16900	64	FT	36" CONDUIT, TYPE D	
					197						197		611	19400	197	FT	42" CONDUIT, TYPE B	
					486						486		611	20900	486	FT	48" CONDUIT, TYPE B	
					31						31		611	21100	31	FT	48" CONDUIT, TYPE C	
50											50		611	97400	50	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	
50											50		611	97400	50	FT	CONDUIT, MISC.: TYPE D FOR DRAINAGE DISCHARGE CONTINUANCE	
50											50		611	97400	50	FT	CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	
						6					6		611	98470	6	EACH	CATCH BASIN, NO. 2-2B	
						2					2		611	98510	2	EACH	CATCH BASIN, NO. 2-3	
						2					2		611	98540	2	EACH	CATCH BASIN, NO. 2-4	
						3					3		611	98570	3	EACH	CATCH BASIN, NO. 2-5	
						2					1	1	611	99574	2	EACH	MANHOLE, NO. 3	
				2							2		SPECIAL	61199700	2	EACH	GAS VALVE BOX ADJUSTED TO GRADE	
		2				10					12		611	99710	12	EACH	PRECAST REINFORCED CONCRETE OUTLET	
PAVEMENT																		
			50								50		251	01001	50	SY	PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN	P.014
				4,070							4,070		252	01500	4,070	FT	FULL DEPTH PAVEMENT SAWING	
			50								50		253	01001	50	SY	PAVEMENT REPAIR, AS PER PLAN	P.014
						6,196					6,196		254	01000	6,196	SY	PAVEMENT PLANING, ASPHALT CONCRETE 3.25"	
						574					574		254	01000	574	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE (3.25" MAX)	
						8,981					8,981		254	01000	8,981	SY	PAVEMENT PLANING, ASPHALT CONCRETE 1.75"	
							799				799		301	56100	799	CY	ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS)	
						3,368					3,368		302	56000	3,368	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
						3,653					3,653		304	20000	3,653	CY	AGGREGATE BASE	
						4,536	9				4,545		407	20000	4,545	GAL	NON-TRACKING TACK COAT	
						440					440		408	10001	440	GAL	PRIME COAT, AS PER PLAN	P.007
							10				10		411	10000	10	CY	STABILIZED CRUSHED AGGREGATE	
						1,364					1,364		441	50100	1,364	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG 64-22	
						313					313		441	50200	313	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	
						1,592					1,592		441	50300	1,592	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
							225				225		441	70000	225	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 VVG
 REVIEWER
 WAA 03/28/22
 PROJECT ID
 110416
 SHEET TOTAL
 P.082 208

MODEL: Sheet 3 PAPER SIZE: 34x22 (in.) DATE: 8/26/2022 TIME: 1:44:44 PM USER: Vgheovich
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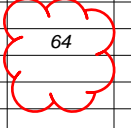
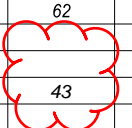
SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.009	P.010	P.011	P.012	P.014	P.087	P.088	P.154	P.155	P.156	P.157	P.167	01/SAE/PV	02/SAF/CV						
PAVEMENT																			
				30								30		441	70101	30	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN	P.014
						100						100		452	12010	100	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P (DRIVEWAYS)	
				10								10		617	10100	10	CY	COMPACTED AGGREGATE	
					62							62		617	10101	62	CY	COMPACTED AGGREGATE, AS PER PLAN (2")	P.007
									1,986	2,674		4,660		618	40900	4,660	FT	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
TRAFFIC CONTROL																			
									173	121		294		621	00100	294	EACH	RPM (1-WAY, WHITE)	
									90	54		144		621	54000	144	EACH	RAISED PAVEMENT MARKER REMOVED	
							108	182				290		630	02100	290	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
							40	90				130		630	03100	130	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
							143	72				215		630	04100	215	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
											29	29		630	06100	29	FT	GROUND MOUNTED SUPPORT, NO. 6 POST	
											3	3		630	08600	3	EACH	SIGN POST REFLECTOR	
							188	223				411		630	80100	411	SF	SIGN, FLAT SHEET	
							43	45				88		630	84900	88	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
								1				1		630	84900	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL SIGNAL AHEAD SIGN WITH FLASHING BEACONS RETROFITTED	
							21	29				50		630	86002	50	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								1				1		630	97700	1	EACH	SIGNING, MISC.:SIGNAL AHEAD SIGN WITH FLASHING BEACONS RETROFITTED	
				0.5								0.5		642	00100	0.5	MILE	EDGE LINE, 4", TYPE 1	
				0.25								0.25		642	00300	0.25	MILE	CENTER LINE, TYPE 1	
									1.68	1.02		2.7		644	00104	2.7	MILE	EDGE LINE, 6"	
									1.09	0.85		1.94		644	00300	1.94	MILE	CENTER LINE DOUBLE YELLOW	
									2,324	1,240		3,564		644	00400	3,564	FT	CHANNELIZING LINE, 8"	
									107	67		174		644	00500	174	FT	STOP LINE	
									356	402		758		644	00700	758	FT	TRANSVERSE/DIAGONAL LINE	
									40			40		644	00900	40	SF	ISLAND MARKING	
									17	8		25		644	01300	25	EACH	LANE ARROW	
									11	6		17		644	01410	17	EACH	WORD ON PAVEMENT, 96"	
										468		468		644	01510	468	FT	DOTTED LINE, 6"	
										500		500		644	30000	500	FT	REMOVAL OF PAVEMENT MARKING	
TRAFFIC SIGNALS																			
												28	28	625	25604	28	FT	CONDUIT, 4", 725.051	
												14	14	625	29000	14	FT	TRENCH	
												1	1	625	30706	1	EACH	PULL BOX, 725.08, 24"	
												5	5	625	32000	5	EACH	GROUND ROD	
												32	32	625	36010	32	FT	UNDERGROUND WARNING/MARKING TAPE	
												1	1	625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL - SIGNAL CONTROLLER	
												4	4	632	05007	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	P.171
												5	5	632	05087	5	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	P.171
												17	17	632	25000	17	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
												456	456	632	30200	456	FT	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	
												456	456	632	30600	456	FT	TETHER WIRE, WITH ACCESSORIES	
												1,126	1,126	632	40700	1,126	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
												4	4	632	64000	4	EACH	STRAIN POLE FOUNDATION	
												43	43	632	69200	43	FT	POWER CABLE, 2 CONDUCTOR, NO. 4 AWG	
												608	608	632	69900	608	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 4 AWG	
												1	1	632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.171
												4	4	632	86140	4	EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 12	
												1	1	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
												1	1	633	65523	1	EACH	CABINET, TYPE 332L, AS PER PLAN	P.171
												1	1	633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.171
												1	1	633	67201	1	EACH	CONTROLLER WORK PAD, AS PER PLAN	P.171
												1	1	633	68511	1	EACH	COMMUNICATIONS, AS PER PLAN	P.171
												1	1	633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.171
												60	60	809	64550	60	FT	ETHERNET CABLE, OUTDOOR-RATED	
												1	1	809	65990	1	EACH	ITS DEVICE, MISC.:, RELOCATE PTZ CAMERA	P.171
												4	4	809	69000	4	EACH	ADVANCE RADAR DETECTION	
												4	4	809	69100	4	EACH	STOP LINE RADAR DETECTION	

GENERAL SUMMARY


DESIGN AGENCY	
TRC	
DESIGNER	VVG
REVIEWER	
WAA	03/28/22
PROJECT ID	
110416	
SHEET	TOTAL
P.083	208

SHEET NUM.								PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.009	P.010	P.011	P.012	P.013	P.014	P.167	01/SAE/PV	02/SAF/CV							
TRAFFIC SIGNALS															
						1			1	809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.171
MAINTENANCE OF TRAFFIC															
			25						25	410	12000	25	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
210	270		250						200	614	11110	250	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
16	18								480	614	11630	480	FT	INCREASED BARRIER DELINEATION	
					LS				34	614	12384	34	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
								LS		614	12420	LS		DETOUR SIGNING	
				12					12	614	12460	12	EACH	WORK ZONE MARKING SIGN	
62	62				47				47	614	13000	47	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
62	62								124	614	13310	124	EACH	BARRIER REFLECTOR, TYPE 1	
									124	614	13350	124	EACH	OBJECT MARKER, ONE WAY	
						28			28	614	18601	28	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.014
1.29	1.2								2.49	614	21100	2.49	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
	0.99	0.35							1.34	614	21500	1.34	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
3.4	2.26								5.66	614	22110	5.66	MILE	WORK ZONE EDGE LINE, CLASS I, 642 PAINT	
	6,058								6,058	614	23660	6,058	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8" 642 PAINT	
115	25								140	614	26200	140	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
49	63								112	614	26200	112	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
	184	12							196	614	26610	196	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
	11	8							19	614	30650	19	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	
			LS						LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
14,263									14,263	615	25000	14,263	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
			101						101	616	10000	101	MGAL	WATER	
2,657	2,590								5,247	622	41100	5,247	FT	PORTABLE BARRIER, UNANCHORED	
INCIDENTALS															
								LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
									15	619	16010	15	MNTH	FIELD OFFICE, TYPE B	
									LS	LS	623	10001	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	P.008
									LS	LS	624	10000	LS	MOBILIZATION	

REF NO.	SHEET NO.	STATION TO STATION		602	611	611	611	611	611	611	611	611	611	611	611	611	611	611	670	670	836		
				CONCRETE MASONRY CY	12" CONDUIT, TYPE D FT	15" CONDUIT, TYPE B FT	15" CONDUIT, TYPE C FT	15" CONDUIT, TYPE D FT	21" CONDUIT, TYPE B FT	21" CONDUIT, TYPE C FT	24" CONDUIT, TYPE C FT	27" CONDUIT, TYPE D FT	30" CONDUIT, TYPE D FT	36" CONDUIT, TYPE B FT	36" CONDUIT, TYPE C FT	36" CONDUIT, TYPE D FT	42" CONDUIT, TYPE B FT	48" CONDUIT, TYPE B FT	48" CONDUIT, TYPE C FT	SLOPE EROSION PROTECTION SY	SLOPE EROSION PROTECTION MAT, TYPE B SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 SY	
SP1	P.090	154+15.00	TO	158+75.00																			
SP2	P.091	157+68.00		159+02.00																			
SP8	P.113-114	197+76.33		207+22.00																			
SP3	P.091-092	165+53.00		167+75.00																			
SP4	P.093	168+35.00		169+41.00																			
SP5	P.093	169+58.00		170+58.00																			
SP6	P.093	170+78.00		171+03.00																			
SP7	P.092-093	171+42.00		172+50.00																			
DP1	P.090-092	154+15.00		161+70.00																			
DP2	P.092	164+70.00		166+38.00																			
DP3	P.093	168+10.00		170+32.00																			
DP4	P.110	183+30.00		189+21.00																			
DP5	P.111-112	189+55.00		194+51.00																			
SE3	P.110-111	183+30.00		187+73.00																			
SE1	P.092, 112	196+09.00		197+43.00																			
SE2	P.092, 112	196+57.00		197+46.00																			
SE4	P.113	197+79.00		200+51.00																			
SE5	P.113	200+68.00		201+50.00																			
SE6	P.113-114	201+68.00		202+52.00																			
SE7	P.114	202+70.00		204+67.00																			
SE8	P.114	204+89.00		206+34.00																			
SE9	P.114	206+53.00		207+44.00																			
SE10	P.115	207+58.00		208+59.00																			
SE11	P.115	208+78.00		210+04.00																			
Inlet	P.112	196+54.90		196+16.51	0.69																		
D-1	P.112	196+16.51		194+75.74																			
D-2	P.092, 112	164+70.00		196+16.51																			
D-3	P.092	166+26.07		164+70.00																			
D-4	P.092-093	167+05.19		166+26.07																			
D-5	P.093	167+64.44		167+05.19																			
D-6	P.093	168+19.60		167+64.44																			
D-7	P.093	168+94.13		168+19.60																			
D-8	P.093	170+82.14		168+94.13																			
D-9	P.111	188+01.04		187+73.00	1.09																		
D-10	P.111	190+05.76		188+01.04																			
D-11	P.111-112	192+85.49		190+05.76																			
D-12	P.112	193+74.54		192+85.49																			
D-13	P.112	194+75.74		193+74.54																			
D-14	P.091-092	160+17.02		162+81.51																			
D-15	P.092, 112	162+81.51		194+75.74																			
D-16	P.092	161+76.00																					
D-17	P.092	165+22.00																					
DP18	P.111	189+38.00																					
DP19	P.112-113	197+63.00																					
DP20	P.112-113	197+55.00																					
DP21	P.113	200+60.00																					
DP22	P.113	201+59.00																					
DP23	P.114	202+61.00																					
DP24	P.114	204+78.00																					
DP25	P.114	206+44.00																					
DP26	P.114-115	207+49.00																					
DP27	P.115	208+68.00																					
DP28	P.111	192+10.00																					
TOTALS CARRIED TO GENERAL SUMMARY																							
					1.8	105	308	265	155	137	134	211	179	126	150	43	64	197	486	31	3502	1816	2728




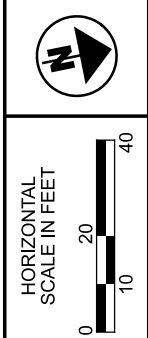
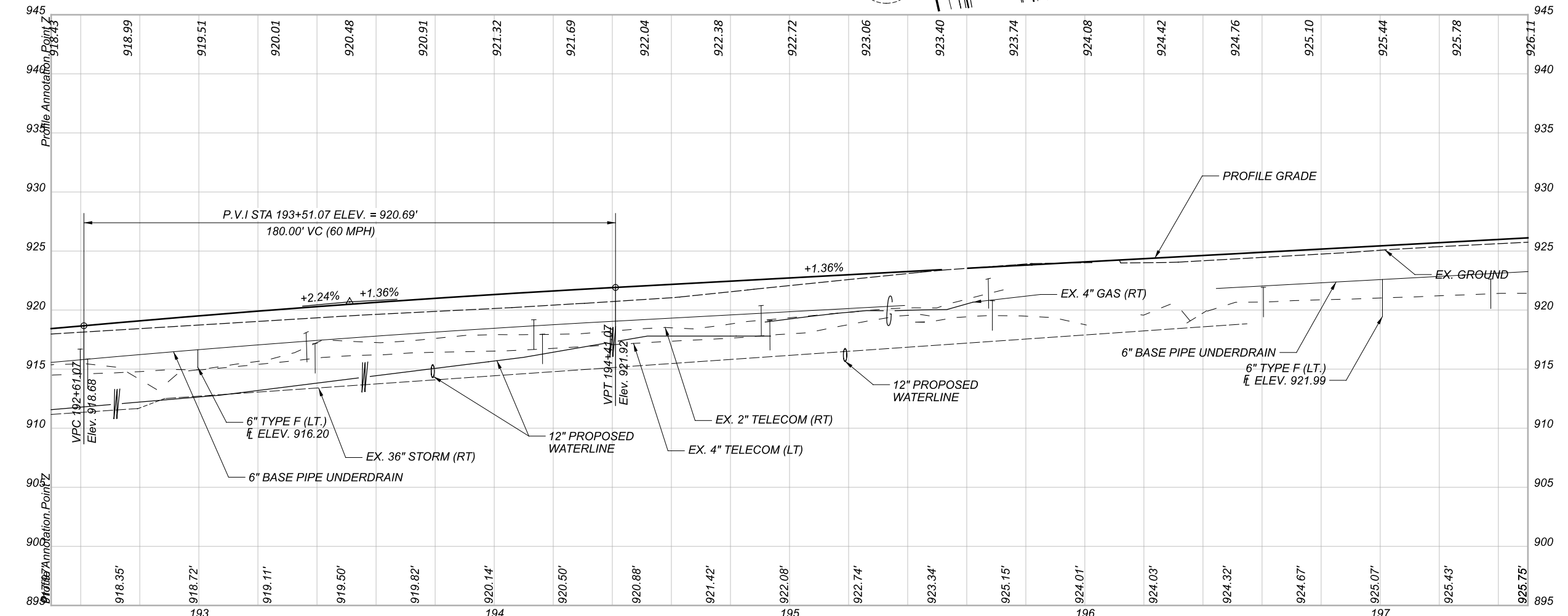
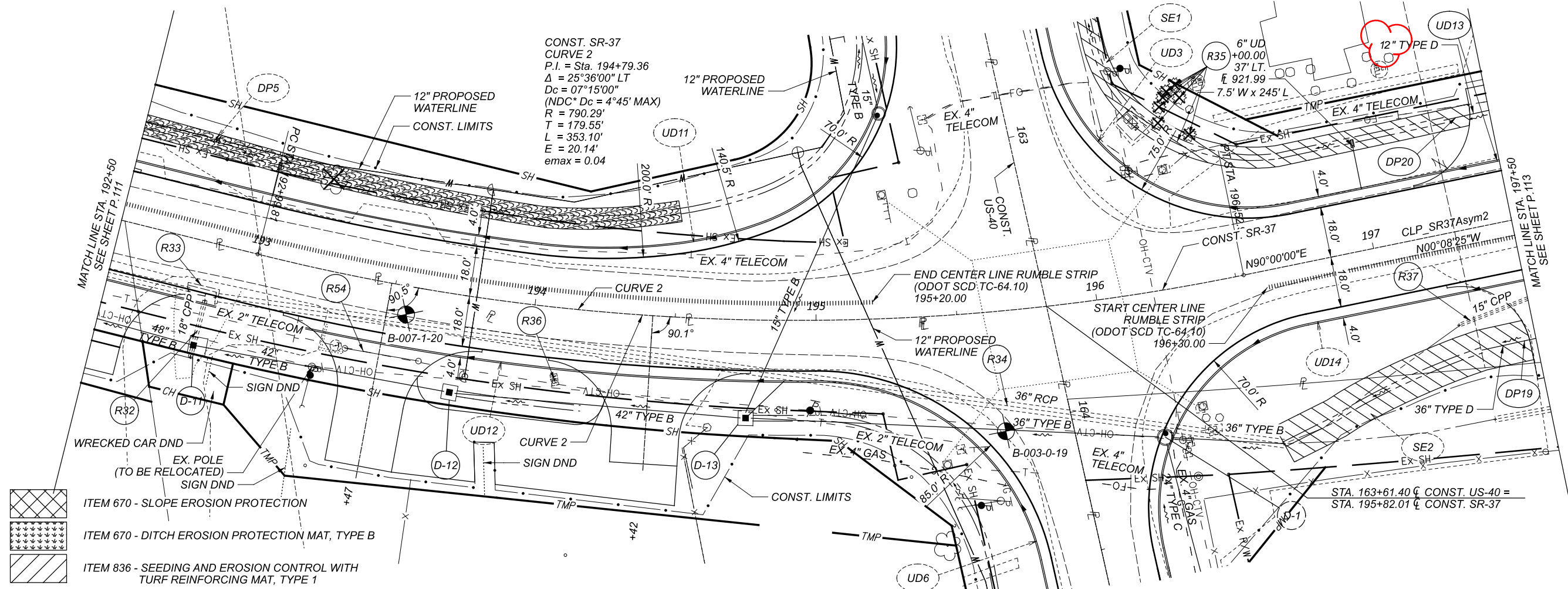
DRAINAGE AND EROSION CONTROL SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 VVG
 REVIEWER
 WAA 03/28/22
 PROJECT ID
 110416
 SHEET TOTAL
 P.085 208

STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9		202	206	206	206	254	254	254	301	304	304	407	408	441	441	441	516	617	690	
							PAVEMENT REMOVED	CEMENT	CURING COAT	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	PAVEMENT PLANING, ASPHALT CONCRETE 3.25"	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE (3.25" MAX)	PAVEMENT PLANING, ASPHALT CONCRETE 1.75"	ASPHALT CONCRETE BASE, PG64-22, (449)	AGGREGATE BASE	AGGREGATE BASE	NON-TRACKING TACK COAT	PRIME COAT, AS PER PLAN	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) (FOR LEVELING)	2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	COMPACTED AGGREGATE, AS PER PLAN (2")	SPECIAL - MALTENE BASED LONGITUDINAL JOINT STABILIZER	
			FT	FT	SQ YD		SY	TON	SY	SY	SY	SY	SY	CY	CY	CY	GAL	GAL	CY	CY	CY	SF	CY	SF	
129+43.00		LT&RT	0.17	4.50																		1			
129+43.00	130+43.00	LT&RT	100.00	52.10	579						579						75		24	28					
130+43.00	131+43.00	LT&RT	100.00	51.65	574						574						75		24	28					
131+43.00	154+15.00	LT&RT	2272.00	35.57	8981							8981					1167		374	437					
129+43.00	154+15.00	LT	2472	2	549													220					31		
129+43.00	154+15.00	RT	2472	2	549													220					31		
154+15.00	162+73.40	LT&RT	858	46.78	4462												580		186	217					
154+15.00	162+73.40	LT&RT	858	47.47	4528								880												
154+15.00	162+73.40	LT&RT	858	48.47	4623									771											
154+15.00	162+73.40	LT&RT	858	49.81	4751			143	4751	4751															
154+15.00	174+00.02	LT&RT	1985	34.26	7557		7557																	3971	
162+73.40	164+40.00	*** LT&RT	167	112.07	2075			63	2075	2075							270		86	101					
162+73.40	164+40.00	* LT&RT	167	42.19	781								152												
162+73.40	164+40.00	* LT&RT	167	42.82	793									132											
162+73.40	164+40.00	* LT&RT	167	43.65	808			24	808	808															
162+73.40	164+40.00	** LT&RT	167	70.60	1307								254												
162+73.40	164+40.00	** LT&RT	167	71.06	1315									219											
164+40.00	174+00.02	LT&RT	960	40.29	4297												559		179	209					
164+40.00	174+00.02	LT&RT	960	40.95	4369								849												
164+40.00	174+00.02	LT&RT	960	41.95	4475									746											
164+40.00	174+00.02	LT&RT	960	43.29	4617			139	4617	4617															
183+30.00	191+45.03	LT&RT	815	17.85	1617								314												
183+30.00	191+45.03	LT&RT	815	18.85	1707												569								
183+30.00	191+45.03	LT&RT	815	20.18	1828			55	1828	1828															
183+30.00	191+45.03	LT&RT	815	26.82	2428																				
183+30.00	195+94.50	LT&RT	1265	40.94	5752												748		240	280					
183+30.00	210+04.00	LT&RT	2674	13.48	4005		4005																	5348	
191+45.03	195+94.50	LT&RT	449	35.90	1793								349												
191+45.03	195+94.50	LT&RT	449	36.68	1832									305											
191+45.03	195+94.50	LT&RT	449	37.72	1884			57	1884	1884															
196+73.40	198+07.69	LT&RT	134	44.67	667								130												
196+73.40	198+07.69	LT&RT	134	45.67	681									114											
196+73.40	198+07.69	LT&RT	134	47.01	701			21	701	701															
196+73.40	210+04.00	LT&RT	1331	40.67	6012												782		251	292					
198+07.69	210+04.00	LT&RT	1196	16.97	2256								439												
198+07.69	210+04.00	LT&RT	1196	17.97	2389												796								
198+07.69	210+04.00	LT&RT	1196	19.31	2567			77	2567	2567															
198+07.69	210+04.00	LT&RT	1196	23.98	3188						3188						159								
* STAGE 2																									
** STAGE 3																									
*** STAGE 5																									
SUBTOTALS							11562	581	19230	19230	6195	574	8981	3367	2287	1365	4536	439	1364	1591	312	1	61	9319	
TOTALS CARRIED TO GENERAL SUMMARY							11563	581	19230	19230	6196	574	8981	3368		3652		4536	440	1364	1591	312	1	62	9319

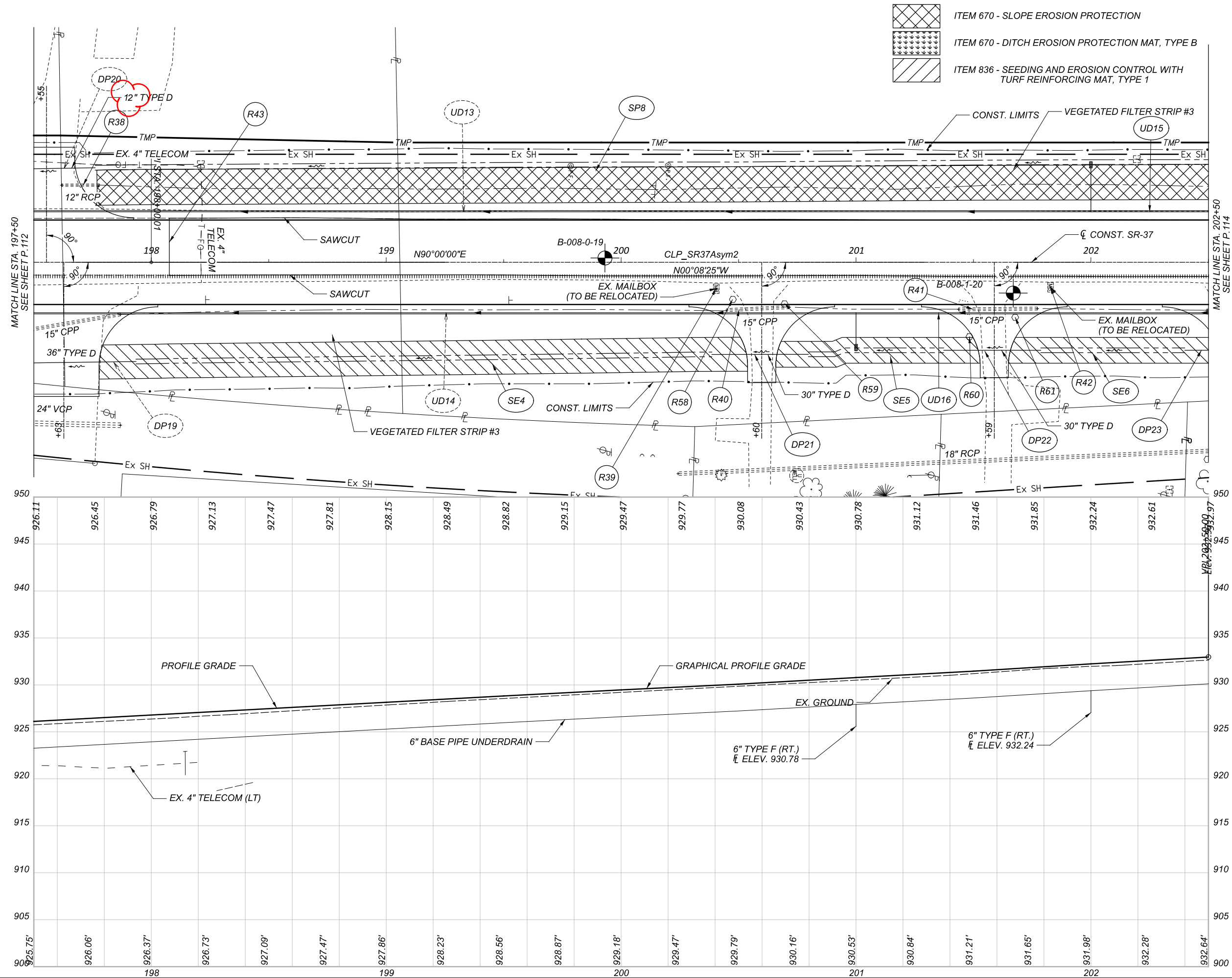
PAVEMENT SUBSUMMARY




DESIGN AGENCY

 DESIGNER
 VVG
 REVIEWER
 WAA 03/28/22
 PROJECT ID
 110416
 SHEET TOTAL
 P.087 208

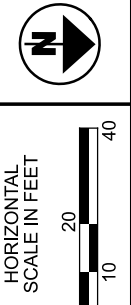


PLAN AND PROFILE - SR-37
 SR-37 STA. 192+50 TO STA. 197+50


DESIGN AGENCY	TRC
DESIGNER	KJM
REVIEWER	WAA
PROJECT ID	03-28-22
SHEET	110416
TOTAL	P.112 208



-  ITEM 670 - SLOPE EROSION PROTECTION
-  ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE B
-  ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1




PLAN AND PROFILE - SR-37
 SR-37 STA. 197+50 TO STA. 202+50

DESIGN AGENCY	
	
DESIGNER	KJM
REVIEWER	WAA 03-28-22
PROJECT ID	110416
SHEET	TOTAL
P.113	208

SHEET NO.	LOCATION	DISTANCE	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	632	632	632	633	633	633	633	633	809	809	809	809	809
			CONDUIT, 4", 725.051	TRENCH	PULL BOX, 725.08, 24"	GROUND ROD	UNDERGROUND WARNING/MARKING TAPE	ARC FLASH CALCULATIONS AND LABEL - SIGNAL CONTROLLER	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	COVERING OF VEHICULAR SIGNAL HEAD	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	TETHER WIRE, WITH ACCESSORIES	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	STRAIN POLE FOUNDATION	POWER CABLE, 2 CONDUCTOR, NO. 4 AWG	SERVICE CABLE, 3 CONDUCTOR, NO. 4 AWG	POWER SERVICE, AS PER PLAN	STRAIN POLE, TYPE TC-81.11, DESIGN 12	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	CABINET, TYPE 332L, AS PER PLAN	CABINET FOUNDATION, AS PER PLAN	CONTROLLER WORK PAD, AS PER PLAN	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	COMMUNICATIONS, AS PER PLAN	ETHERNET CABLE, OUTDOOR-RATED	ITS DEVICE, MISC.; RELOCATE PTZ CAMERA	ADVANCE RADAR DETECTION	STOP LINE RADAR DETECTION	ATC V6.24 CONTROLLER, AS PER PLAN
			FT	FT	EACH	EACH	FT	EACH	EACH	EACH	FT	FT	FT	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	
171	SP-3					1																								
171	SIGNAL HEAD 2A & 2B TO SP-4	92							1	1	4						143												1	1
171	SP-4					1																								
171	SIGNAL HEAD 4A & 4B TO SP-4	182																												
171	SP-2					1																								
171	SIGNAL HEAD 6A & 6B TO SP-4	180																												
171	SP-1					1																								
171	SIGNAL HEAD 8A & 8B TO SP-4	51																												
171	SIGNAL HEAD 2C								1	1	4																			
171	SP-1 TO CONTROLLER	14	28	14	1		14																							
171	CONTROLLER					1		1													1			1	1	1	1	1		1
171	POWER	18					18																							
171	MESSENGER WIRE & TETHER WIRE	456									456	456																		
171	SIGNAL NOTES																									60	1			
TOTALS CARRIED TO GENERAL SUMMARY			28	14	1	5	32	1	4	5	17	456	456	1126	4	43	608	1	4	1	1	1	1	1	1	60	1	4	4	1

TRAFFIC SIGNAL SUBSUMMARY
 US 40 & SR 37

DESIGN AGENCY

 CLIENT

 DESIGNER
 DLW
 REVIEWER
 SJS 3/25/2022
 PROJECT ID
 110416
 SHEET TOTAL
 P.167 208

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

LIC-40-9.37
PART 2
FOR PART 1 SEE LIC-40-13.15

VILLAGE OF KIRKERSVILLE
HARRISON AND UNION TOWNSHIPS
LICKING COUNTY

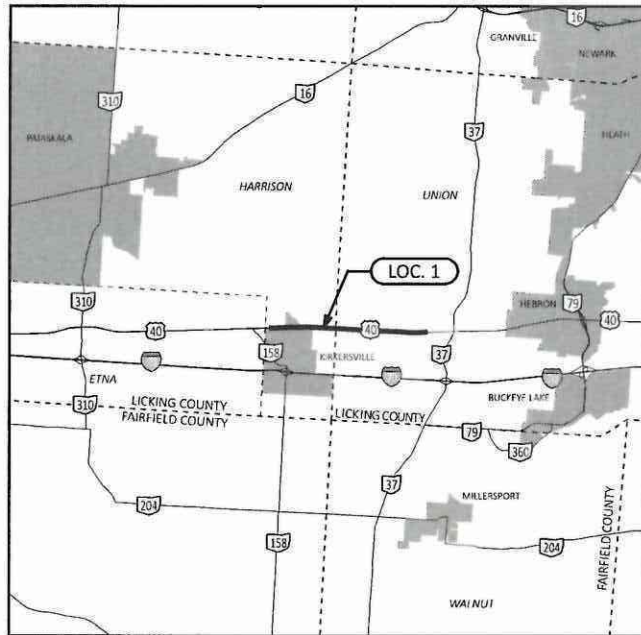
FEDERAL PROJECT NUMBER
E191(297)

RAILROAD INVOLVEMENT
NONE

PROJECT DESCRIPTION

ASPHALT CONCRETE RESURFACING AND RELATED WORK ON U.S. 40 IN LICKING COUNTY INCLUDING BRIDGE DECK PATCHING AND SEALING ON VARIOUS STRUCTURES.

PROJECT EARTH DISTURBED AREA = N/A (MAINTENANCE)
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A
NOTICE OF INTENT EARTH DISTURBED AREA = N/A



LOCATION MAP

LATITUDE: 39° 57' 30" LONGITUDE: 82° 34' 12"

PORTION TO BE IMPROVED

DESIGN DESIGNATION	LOC. 1
FUNCTIONAL CLASSIFICATION	RMC
OPENING YEAR ADT (2023)	3,900
DESIGN YEAR ADT (2035)	5,200
DESIGN HOURLY VOLUME (2035)	500
DIRECTIONAL DISTRIBUTION	51%
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED (MPH)	35/55
LEGAL SPEED (MPH)	35/55
NHS PROJECT	NO

RMC = RURAL MAJOR COLLECTOR

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVER

NONE

UNDERGROUND UTILITIES



PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 PLANNING & ENGINEERING

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LOCATION	PLAN SPLIT	COUNTY	ROUTE	BEGIN SLM	END SLM	LENGTH MILES	CITY/VILLAGE
1	1	LIC	40	9.37	12.63	3.26	KIRKERSVILLE

2019 SPECIFICATIONS

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

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

ENGINEER'S SEAL	STANDARD CONSTRUCTION DRAWINGS			SUPPLEMENTAL SPECIFICATIONS
<p>SIGNED: <i>Jason Lutz</i> DATE: 8/29/2022</p>	SEE PART 1			SEE PART 1
				SPECIAL PROVISIONS

APPROVED *John J. Perry*
DATE 8/26/2022 DISTRICT DEPUTY DIRECTOR

APPROVED *Jack Mahoney*
DATE 10/11/22 DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY	
DESIGNER	LME
REVIEWER	JSL 08/15/22
PROJECT ID	110416
SHEET	1
TOTAL	18

LIC - US 40-13.15 (PART 1, PART 2)
220636 PID - 110416
Dist 5 12/1/2022

43-6-07-C17

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 8/26/2022 TIME: 3:28:11 PM USER: pwl\ohio811-pw.bentley.com\ohio811-pw-021\Documents\101 Active Projects\District 05\110416