RAMP D (CD ROAD) STA. 237+44.48

LOCATION MAP

LATITUDE: 40 °15'21" LONGITUDE: 82 °55'41"



INTERSTATE HIGHWAY ______ FEDERAL ROUTES ._____ COUNTY & TOWNSHIP ROADS ______

UNDERGROUND UTILITIES

Contact Two Working Days

Before You Dig

✓ Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764

(Non members must be called directly)

PLAN PREPARED BY:

ms consultants, inc.

COLUMBUS, OHIO 43229 PHONE (614) 898-7100

FOR DESIGN DESIGNATIONS, SEE SHEET 2 ADA DESIGN WAIVERS: NONE REQUIRED

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DEL-71-8.91 (PHASE A) PART 1

BERKSHIRE TOWNSHIP DELAWARE COUNTY FOR PART 2, SEE DEL-71-8.91 (PHASE A)

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PARTS 1 AND 2

ENGINEER'S SEAL:	1		SUPPLEN SPECIFICA		SPECIAL PROVISIONS							
ROADWAY	BP-2.1	1/21/22	CB-2-2A, 2B, 2C	7/19/24	ITS-12.10	7/15/22 MT-95.30	7/19/19 TC-41.10	7/19/13	800-2023	7/19/24	408 PERMIT	3/
and the state of t	BP-2.2	1/15/21	CB-3	7/19/24	ITS-14.10	7/19/24 MT-95.45	7/21/23 TC-41.20	10/18/13	804	7/19/24	01/24/2025	<u>}</u> /4
THINING TO THE	BP-3.1	1/19/24	CB-3A	7/19/24	ITS-14.11	7/19/24 MT-98.21	7/21/23 TC-41.30	4/21/23	807	1/21/22		
The state of the s	BP-5.1	7/15/22	CB-8	7/19/24	ITS-14.50	7/19/24 MT-98.28	1/17/20 TC-41.50	10/18/13	808	7/19/24		
SULLIVANI	BP-7.1	1/19/24	I-2-6	7/19/24	ITS-14.60	1/19/24 MT-98.29	1/17/20 TC-42.10	10/18/13	809	7/19/24		
SULLIVAN E-51504			I-3B, 3B1	7/19/24	ITS-15.11	7/19/24 MT-98.30	7/16/21 TC-42.20	10/18/13	813	7/21/23		1
THE STER FRENCH SHEET	F-2.1	7/20/18	I-3C, 3C1	7/19/24	ITS-18.00	7/16/21 MT-99.20	4/19/19 TC-51.11	1/15/16	821	4/20/12		
ONAL English	F-3.1	7/19/13			ITS-50.10	1/20/23 MT-99.30	1/17/20 TC-52.10	10/18/13	825	7/19/24		
The state of the s	F-3.3	7/19/13	MH-3	7/19/24	ITS-50.11	7/19/24 MT-99.50	7/21/23 TC-52.20	1/15/21	832	7/19/24		
	F-3.4	7/19/13			HL-10.11	7/21/23 MT-101.70	7/19/24 TC-61.10	4/21/23	836	1/19/24		
	MGS-1.1	7/16/21	DM-1.1	7/17/20	HL-10.12	7/21/23 MT-101.75	7/21/23 TC-61.30	7/19/24	840	7/19/24		
	MGS-2.1	1/19/18		7/16/21	HL-10.13	1/20/23 MT-101.90	7/17/20 TC-65.10	1/17/14	850	7/21/23		
ENGINEER'S SEAL:	MGS-3.1	1/19/18	DM-4.2	7/20/12	HL-10.31	7/15/22 MT-102.10	7/21/23 TC-65.11	1/19/24	872	1/21/22		
STRUCTURES	MGS-4.2	7/19/13			HL-20.11	7/21/23 MT-102.20	4/19/19 TC-71.10	4/21/23	902	7/19/19		
	MGS-5.3	7/15/16	AS-1-15	1/20/23	HL-20.21	1/15/21 MT-102.30	10/16/15 TC-72.20	7/21/23	904	7/15/22		1
THE COMMUNICATION OF THE PARTY			AS-2-15	7/21/23	HL-30.11	7/21/23 MT-103.10	1/21/22 TC-73.20	7/19/24	905	4/17/20		
The Child Control of the Control of	RM-1.1	1/20/23	BR-2-15	7/19/24	HL-30.21	4/17/20 MT-104.10	1/19/24 TC-74.10	7/21/23	908	10/20/17		1
SEAN **	RM-4.3	1/21/22	PSID-1-13	7/19/24	HL-30.22	1/15/21 MT-105.10	1/17/20		909	7/19/24		1
E-58874	RM-4.4	7/21/23	SBR-1-20	7/19/24	HL-30.31	7/19/24			913	4/16/21		
THE STERRING STERNING SHE	RM-4.5	7/21/17	SICD-1-21	1/21/22	HL-30.41	1/21/22 TC-12.31	4/15/22		921	7/19/24		
ONAL MINING	RM-4.6	7/19/13	SICD-2-14	1/19/24	HL-40.10	7/19/24 TC-15.116	1/19/24		992	4/18/14		1
The state of the s	RM-5.2	7/21/23	VPF-1-90	7/21/23	HL-50.21	7/15/22 TC-21.11	7/16/21					
					HL-60.11	7/21/17 TC-21.21	1/20/23					
	HW-2.1	7/15/22	ITS-10.10	7/19/24	HL-60.21	7/20/18 TC-21.50	4/17/20					
	HW-2.2	7/20/18	ITS-10.11	7/19/24	HL-60.31	7/19/24 TC-22.20	1/17/14					

FEDERAL PROJECT NUMBER

E190 (125)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

CONSTRUCT A NEW PARTIAL DIAMOND INTERCHANGE ON 1-71 AT SUNBURY PARKWAY. THIS WILL INCLUDE AN ENTRANCE RAMP FROM SUNBURY PARKWAY TO I-71 SB AND AN EXIT RAMP FROM I-71 NB TO SUNBURY PARKWAY. BUILD A I-71 NB CD ROAD BETWEEN SUNBURY PARKWAY AND SR 36/37 COMBINING THE EXITING TRAFFIC TO SUNBURY WITH THE EXITING TRAFFIC TO SR 36/37. CONNECT SUNBURY PARKWAY TO WILSON RD. THE PROJECT WILL ALSO INCLUDE THE SUNBURY PARKWAY TWO SPAN BRIDGE OVER 1-71, THE RECONSTRUCTION OF STORM SEWERS AND CULVERTS, AND THE RELOCATION OF SIGNAGE AND LIGHTING. THE FULL PARCLO INTERCHANGE AND THE EXTENSION OF SUNBURY PARKWAY WILL BE BUILT IN FUTURE PHASES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 53.26 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 42.15 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 95.41 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 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.

TRAFFIC REROUTED FOR BRIEF TIME PERIODS

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS P.35 & P.47, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

NO.	RFI	DESCRIPTION	REV. BY	DATE
P1R4	•	ADD SPEC. PROVISION	TAZ	04/10/25
•		•		

Anthony C. Turowski, P.E. District 06 Deputy Director

ESIGNER ACW REVIEWER TAZ 05/26/23 ROJECT ID 106959

ESIGN AGENCY

ns consultants, inc

P.1 663

Director, Department of Transportation

LAST REVISED: P1R4 04/10/2025

ESIGN AGENCY

ns consultants, ind

ACW

P.23 663

ESIGNER

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 15 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED. AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT. THE PIPE MAY BE CRUSHED AND BACKFILLED PER 203. OR IT MAY BE REMOVED. THE LENGTH. MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN. NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

ITEM 304 - AGGREGATE BASE, AS PER PLAN, 6" AVG.

THIS ITEM SHALL CONFORM TO ITEM 304 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE QUANTITY PROVIDED IN THE PAVEMENT EDGE REPAIR CALCULATIONS ON THE CALCULATIONS SPREADSHEET HAS BEEN ESTIMATED USING A 6" THICKNESS.

THE CONTRACTOR MUST FIRST FIELD VERIFY THE THICKNESS OF THE EXISTING AGGREGATE BASE AND DETERMINE THE DEPTH OF EXISTING SUBGRADE PRIOR TO THE PLACING OF THIS ITEM. IF THE EXISTING SUBGRADE IS FOUND TO BE AT A DIFFERENT ELEVATION THAN THE PROPOSED SUBGRADE (WHEN ASSUMING A PROPOSED 6" AGGREGATE BASE), THE CONTRACTOR SHALL PROVIDE THE RESULTS OF THE INVESTIGATION TO THE PROJECT ENGINEER. THE ENGINEER SHALL THEN DIRECT THE CONTRACTOR TO ADJUST THE THICKNESS OF THIS ITEM ACCORDINGLY.

THE CONTRACTOR WILL BE COMPENSATED FOR ANY ADDITIONAL QUANTITY OF THIS ITEM AT THE CONTRACT BID PRICE OF THE ITEM. THE CONTRACTOR WILL NOT RECIEVE ANY ADDITIONAL COMPENSATION BEYOND THE ADJUSTED QUANTITY AT THE CONTRACT BID PRICE.

ODOT'S CONCRETE BARRIER INLETS

PER ODOT'S STANDARD CONSTRUCTION DRAWINGS FOR CONCRETE BARRIER INLET DETAILS. THE STATION AND OFFSET IS CALLED OUT TO THE CENTER OF THE GRATE. THE GRATE ELEVATION CALLED OUT IN THE STORM SEWER PROFILES AND CROSS SECTIONS ARE TO THE CENTER EDGE OF THE GRATE WHERE IT ABUTS TO THE FACE OF BARRIER.

ITEM 601 - RIPRAP, TYPE D, AS PER PLAN

THIS IS FOR USE AT THE PROPOSED HEADWALL WHERE THERE IS A SIDE APPROACHING DITCH IN ADDITION TO THE INLET OR OUTLET AT THE FRONT OF THE REINFORCED CONCRETE RIPRAP.

THIS WILL REQUIRE UTILIZING THE STANDARD CUTOFF WALL AS DETAIL IN THE DM-1.1, ALONG WITH AN ADDITIONAL CUTOFF WALL ON THE SIDE OF THE APPROACHING DITCH TO PREVENT UNDERMINING OF THE RIPRAP.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

FOR THE PROPOSED STORM SEWER BETWEEN STRUCTURE (I1 TO HW) AND STRUCTURE (12 TO HW), THE COFFERDAMS AND EXCAVATION BRACING SHALL BE A SEPARATE PAY ITEM FROM ITEM 611 CONDUIT MISC.: CONDUIT INSTALLED BY THE TRENCHLESS METHOD, 15". IT IS ANTICIPATED THAT THE APPROXIMATE JACKING PIT DIMENSION FOR THE PROPOSED 15" PIPES AT STRUCTURE (I1 & I2) WILL BE 35'X12' AND AT A APPROXIMATE DEPTH OF 8'. IT IS ANTICIPATED THAT THE APPROXIMATE RECEIVING PIT DIMENSION FOR THE PROPOSED 15" PIPES AT STRUCTURE (I1 & I2) WILL BE 20' IN DIAMETER AND AT A APPROXIMATE DEPTH OF 3'.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE LUMP SUM PRICE BID FOR ITEM 503, COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN.

ITEM 611 - CONDUIT MISC: CONDUIT INSTALLED BY THE TRENCHLESS METHOD, 15"

INSTALL THE CONDUIT WITH A TRENCHLESS METHOD THAT PROVIDES HORIZONTAL AND VERTICAL ALIGNMENT ACCORDING TO THE PLAN THAT CONFORMS TO CMS 611. CONDUIT CAN BE INSTALLED BY TRENCHLESS METHODS SUCH AS: JACK AND BORE, TUNNELING, MICROTUNNELING, OR APPROVED EQUAL.

ALL CONDUIT MATERIALS SHALL FIT THE METHOD SELECTED AND MEET ODOT MATERIAL SPECIFICATIONS. ENSURE ALL MATERIAL PROVIDES A 75 YEAR DESIGN SERVICE LIFE. TUNNEL LINER PLATE WILL REQUIRE CONCRETE FIELD PAVING PER CMS 611.

IF FURNISHING A STEEL CASING PIPE TO CONVEY THE STORM WATER, ENSURE IT CONFORMS TO 748.06 WITH A FULL CIRCUMFERENCIAL PENETRATING B-U4B WELD AT THE JOINTS. ALL WELDING IS PERFORMED BY AN ODOT APPROVED FIELD WELDER. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

IF FURNISHING A TUNNEL LINER PLATE, ENSURE THE BASE METAL COMPOSITION, DEPTH AND SPAN OF THE CORRUGATIONS, AND SIZE AND SPACING OF BOLTS AND BOLT HOLES ARE IN ACCORDANCE WITH DETAILS OF THE MANUFACTURER. INSTALLATION OF THE STRUCTURE IS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURE GALVANIZING IS PROVIDED IN ACCORDANCE WITH 707.03 AFTER CORRUGATING, FORMING, AND PUNCHING OF THE PLATES AND BOLT HOLES.

ALTERNATE MATERIALS MAY BE USED CONTINGENT UPON DEPARTMENT APPROVAL.

NO TRENCH EXCAVATION SHALL BE CLOSER THAN 10 FEET TO THE EXISTING BACK OF CURB. PROVIDE ALL NECESSARY DESIGN CALCULATIONS FOR PIPE MATERIALS AND JACKING FORCES AS PART OF THE INSTALLATION PLAN.

ITEM 203 - EMBANKMENT, AS PER PLAN

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE BRIDGE ABUTMENT APPROACH EMBANKMENT AT THE FOLLOWING LOCATIONS:

It	Item 203 Embankment, As Per Plan														
Alignment	Structure	Location	Embankment, as per Plan (CY)												
Sunbury Parkway	DEL-00071-08.910	Forward	12526												
Sunbury Parkway	DEL-00071-08.910	Rear	11192												
TOTAL			23718												

ITEM 202 - REMOVAL MISC.: WOOD POLE

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF A EXISTING WOOD POLE PER ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS, ITEM 202. THE WOOD POLE APPEARS TO BE AN OLD AEP DISTRIBUTION POLE, CUT OFF BELOW THE EXISTING POWER LINES. THE CONTRACTOR SHALL CONFIRM WITH AEP THAT THE WOOD POLE HAS BEEN ABANDONED PRIOR TO BEING REMOVED.

ALL WORK ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF THE WOOD POLE WILL BE PAID FOR AS FOLLOWS: ITEM 202 - REMOVAL MISC.: WOOD POLE

ITEM 202 - REMOVAL MISC.: POLE AND FOUNDATION

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF A EXISTING STEEL POLE AND CONCRETE FOUNDATION PER ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS, ITEM 202. BEFORE REMOVING THE POLE AND FOUNDATION THE CONTRACTOR SHALL CONFIRM WITH ODOT THAT THE POLE HAS BEEN ABANDONED PRIOR TO BEING REMOVED.

ALL WORK ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF THE POLE AND FOUNDATION WILL BE PAID FOR AS FOLLOWS: ITEM 202 - REMOVAL MISC.: POLE AND FOUNDATION

ITEM 202 - REMOVAL MISC.: REFLECTOR POST

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING FOUR FOOT HIGH REFLECTOR POST PER ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS, ITEM 202.

ALL WORK ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF THE REFLECTOR POST WILL BE PAID FOR AS FOLLOWS: ITEM 202 - REMOVAL MISC.: REFLECTOR POST

ITEM 202 - REMOVAL MISC.: BUILDING PAD

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF A PORTION OF THE EXISTING WEIGHT STATION BUILDING PAD THAT IS WITHIN THE CONSTRUCTION LIMITS.

ALL WORK ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF THE EXISTING BUILDING PAD WILL BE PAID FOR AS FOLLOWS: ITEM 202 -REMOVAL MISC.: BUILDING PAD

> REVIEWER TAZ 08/01/23 ROJECT ID 106959

DESCRIPTION REVISE DRAINAGE NOTE

GRAND SHEET NUM. PART. ITEM SEE UNIT ITEM DESCRIPTION SHEET EXT **TOTAL** P.110 P.464 01/NHS/01<mark>|</mark>02/NHS/08 P.108 P.109 P.466 **OFFICE** P.113 ROADWAY CLEARING AND GRUBBING P.21/P.22 LS LS 201 11000 LS 10 202 10 10 20010 EACH HEADWALL REMOVED 400 PAVEMENT REMOVED 400 400 202 23000 259 259 WALK REMOVED 202 30000 259 59 59 202 32000 59 CURB REMOVED 300 166 466 202 35100 466 PIPE REMOVED, 24" AND UNDER 202 30 30 PIPE REMOVED, OVER 24" 35200 30 1,965 1,965 1,965 202 38000 GUARDRAIL REMOVED ANCHOR ASSEMBLY REMOVED, TYPE E 202 42010 839 839 202 48000 839 CABLE BARRIER REMOVED 202 CATCH BASIN REMOVED 5 58100 5 202 58200 EACH INLET REMOVED 625 20270000 625 FILL AND PLUG EXISTING CONDUIT, 15" 625 SPECIAL P.23 200 SPECIAL 20270110 200 P.22 200 PIPE CLEANOUT, 24" AND UNDER 100 **SPECIAL** 20270120 100 P.22 100 PIPE CLEANOUT, 27" TO 48" 4,909 4,909 202 75000 4,909 FENCE REMOVED REMOVAL MISC.: WOOD POLE 202 98100 P.23 **SUMMARY** P.23 202 REMOVAL MISC.: POLE AND FOUNDATION 98100 EACH P.23 202 14 14 98100 14 **EACH** REMOVAL MISC.: REFLECTOR POST P.23 140 140 202 140 REMOVAL MISC.: BUILDING PAD 98400 8,130 72,785 80,915 203 80,915 CY EXCAVATION 10000 205,215 206,951 206,951 1,736 203 **EMBANKMENT** 20000 CY GENERAL 30,572 30,572 203 20001 30,572 EMBANKMENT, AS PER PLAN P.23 37,000 37.000 203 37,000 BORROW, AS PER PLAN P.22 40001 21,122 21,122 21,122 204 10000 SUBGRADE COMPACTION P.21 PROOF ROLLING P.21 34 34 204 45000 34 **HOUR** 72,971 72,971 72,971 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP 206 15010 4,434 4.434 206 4,434 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP 15020 5,053 4,953 100 606 5,053 GUARDRAIL, TYPE MGS 15050 FT 14 15 606 26150 15 ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) P.21 606 10 10 26550 10 ANCHOR ASSEMBLY, MGS TYPE T 35002 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH 60655010 1,731 SPECIAL 1,731 CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION P.22 1,731 SPECIAL 60655150 P.22 EACH CABLE BARRIER, ANCHOR ASSEMBLY 606 60022 IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL) 75 mph, 24" WIDTH, (MASH 2016) P.21 IMPACT ATTENUATOR, TYPE 3 (BIDIRECTIONAL) 75 MPH, 24" WIDTH (MASH 2016) 60050 2 606 EACH P.21 7,868 7,868 7,868 607 15000 FENCE, TYPE 47 8,311 8,311 8,311 4" CONCRETE WALK 608 SF 10000 1,252 CURB RAMP 1,252 52000 1,252 608 SF 160 160 160 608 53020 DETECTABLE WARNING 225 225 225 CONCRETE BARRIER, SINGLE SLOPE, TYPE B1 622 10100 4,892 622 4,892 CONCRETE BARRIER, SINGLE SLOPE, TYPE C 4,892 10120 FT 352 352 352 10160 CONCRETE BARRIER, SINGLE SLOPE, TYPE D 622 622 24840 CONCRETE BARRIER END SECTION, TYPE B EACH 24850 **EACH** CONCRETE BARRIER END SECTION, TYPE B1 622 2 622 25000 CONCRETE BARRIER END SECTION, TYPE D EACH CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B 622 25004 EACH ESIGN AGENCY 30 25008 30 622 30 EACH CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C 622 25050 EACH CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D 25051 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN 2 622 P.5 2 P.21 623 MONUMENT ASSEMBLY, TYPE C 38500 EACH ns consultants, inc EACH **GROUND ROD** 625 32000 118 118 654 10001 118 RENOVATING EXISTING SOIL, AS PER PLAN P.439 ESIGNER 69098400 P.21 LS **SPECIAL** LS SURVEY CONTROL VERIFICATION ACW LS 878 25000 LS INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS REVIEWER TAZ 11/22/23 ROJECT ID DESCRIPTION REV. BY DATE 106959 REVISE SUBGRADE QTYS TAZ 04/07/25 P.101 663

PART

A

(PHASE

91

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LAST REVISED: P1R4 04/07/2025

			Sh	HEET NUI	M.				PA	RT.	ALT	T	ITEM	GRAND			SEE	
P.24	P.25	P.26	P.28	P.34	P.109	P.113	P.567		01/NHS/01	02/NHS/08	(X)	ITEM	EM UNIT DESCRIPTION EXT TOTAL		NO.			
																STRUCTURE OVER 20 FOOT SPAN (DEL-00071-08.910) (CONT.)		1
							32			32		516	46900	32	EACH	BEARING DEVICE, MISC.:ELASTOMERIC BEARING ASSEMBLY	P.578	1
							255		-	255		518	21200	255	СҮ	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
							303			303		518	40000	303	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		1
							43			43		518	40010	43	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		
							136			136		524	94904	136	FT 	DRILLED SHAFTS, 48" DIAMETER, INTO BEDROCK		1
		+	1				152 1,009			152 1,009	-	524 526	94906 30010	152 1,009	FT SY	DRILLED SHAFTS, 54" DIAMETER, ABOVE BEDROCK REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17")		+
							303			303		526	90030	303	FT	TYPE C INSTALLATION		
																STRUCTURE OVER 20 FOOT SPAN (DEL-00071-08.910) ALTERNATES		
		<u> </u>					546			546	Х	607	39930	546	FT		P.20	1
										565	Х	607	98000	565	FT	FENCE, MISC.: DECORATIVE FENCE (ALTERNATE 2)	P.20	┨
							585			585	X	517	75122	585	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING AND VANDAL PROTECTION FENCE) (ALTERNATE 1)	P.20	1
										565	Х	517	76300	565	FT		P.20	
				^												MISCELLANEOUS STRUCTURE		
				/3\									11101					-
		+		 	7,167	LS			LS 7,167			503 512	11101 10000	LS 7,167	SY	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN SEALING OF CONCRETE SURFACES	P.23	┨
					7,107				7,107			312	10000	7,107	31	SEALING OF CONCRETE SURFACES		1
																MAINTENANCE OF TRAFFIC		\blacksquare
			472						472			614	11110	472	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		1
			1,72	3,199					3,199			614	11630	3,199	FT	INCREASED BARRIER DELINEATION		
				11					11			614	12380	11	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)		
1.0				1					LS			614 614	12400 12420	LS	EACH	WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARDS, UNIDIRECTIONAL DETOUR SIGNING	P.28	-
LS									LS			014	12420	LS LS		DETOOK SIGNING		1
	12								12			614	12484	12	EACH	WORK ZONE INCREASED PENALTIES SIGN		
10	20								10			614	12500	10	EACH	REPLACEMENT SIGN		-
	20	 		1,850					20 1,850			614 614	12600 12801	20 1,850	EACH EACH	REPLACEMENT DRUM WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P.28	┨
	667								667			614	13000	667	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		
		-	1	248 311			<u> </u>		248 311			614 614	13310 13350	248 311	EACH EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) OBJECT MARKER, ONE WAY		1
		80		311					80			614	18601	80	SNMT		P.26	
8.15									8.15			614	20010	8.15	MILE	WORK ZONE LANE LINE, CLASS I, 6"		
		1		4.37					4.37			614	20056	4.37	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT		-
9.24									9.24			614	22010	9.24	MILE	WORK ZONE EDGE LINE, CLASS I, 6"		1
				9.79					9.79			614	22056	9.79	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT		
3,646		_		20.020					3,646			614	23010	3,646	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12"		-
508				20,020					20,020 508			614 614	23110 24000	20,020 508	FT FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT WORK ZONE DOTTED LINE, CLASS I, 6"		1
300									300			014	24000	300	'''	WORK ZONE DOTTED LINE, CLASS 1, 0		1
				4,200					4,200			614	24102	4,200	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT		
20				537 20					537 40			614 614	28000 30000	537	FT EACH	WORK ZONE GORE MARKING, CLASS II		\mathbf{I}
20				20					2			614	30000	2	EACH	WORK ZONE ARROW, CLASS I WORK ZONE ARROW, CLASS I, AS PER PLAN	P.28	DE
				864					864			615	20000	864	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A		
		-	/3	17,340	~~~~~			· · · · · · · · · · · · · · · · · · ·	17,340	·	 	622	41100	17,340	FT	PORTABLE BARRIER, UNANCHORED		lacksquare
	72		75	10,340			 		72	 	·······	808	18700	72		DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY		1
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		 	<u> </u>	 			<u> </u>	<u> </u>	 	 				 		INCIDENTALS		DE
		1		† †					LS			108	10000	LS		CPM PROGRESS SCHEDULE		
			1						LS			614	11000	LS		MAINTAINING TRAFFIC] T/
									24			619	16020	24	MNTH	FIELD OFFICE, TYPE C NO. RFI DESCRIPTION REV. BY DA CONSTRUCTION LAYOUT STAKES AND SURVEYING PIR3 . REVISE COFFERDAM ITEM TAZ 03/17		PR
		+						-	LS LS	-	-	623 624	10000	LS LS		D1D7 DEVICE D0D 1/4 07V T47 07/0	<i>[] 25</i> [SHI
		+	1	1			 	<u> </u>	LS	1	1	624	10000	LS LS		MOBILIZATION PIRS : REVISE PCB, U.A. QTY. TAZ USV 2	J, <u>L</u> U	SHE P .:

P.107A 663 *LAST REVISED: PIR3 03/28/2025*

				512	606	606	606	606	606	606 N =	606	606	607	608	608	608	609	609	609	609	609	
	QUANTITY SHEET NO.		<u>3</u>	SEALING OF CONCRETE SURFACES	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	ANCHOR ASSEMBLY, MGS TYPE T	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	SPECIAL - CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION	IMPACT ATTENUATOR, TYPE (UNIDIRECTIONAL) 75 mph, 24 WIDTH, (MASH 2016)	SPECIAL - CABLE BARRIER, ANCHOR ASSEMBLY	IMPACT ATTENUATOR, TYPE 3 (BIDIRECTIONAL) 75 MPH, 24" WIDTH (MASH 2016)	FENCE, TYPE 47	CURB RAMP	4" CONCRETE WALK	DETECTABLE WARNING	COMBINATION CURB AND GUTTER, TYPE 2	COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN	COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN, "B"	CURB, TYPE 4-C	CURB, TYPE 6	
-	P.122			SY	FT 363	EACH	EACH	EACH	FT	EACH	EACH	EACH	FT	SF	SF	SF	FT	FT	FT	FT	FT	
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-	P.158 P.160	}			87	1		1					802 1004	814	532	112		948 965		801 1000		SU
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		<u>-</u>				-	-	-					•					<u></u>				
MODE!	OTALS CARRIED TO GENERAL SUMMARY	}		7167	4953	15	11	4	1731	4	•	2	7868	1252	8311	160	1742	4477	. 65	2653	1780	SHEET TOTAL P.109 663

