PROJECT: SUL 3 VI SR 764 HTTAgest SUSPEND PROJECT: SLM 2.87 SR 764 BEGIN PROJECT: SUM 2.18 SR 241 BEGIN PROJECT: SLM 7.78 **LOCATION MAP** LATITUDE: 41°02'36" N LONGITUDE: 81°27'59"



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

DESIGN DESIGNATION

DESIGN FUNCTIONAL CLASSIFICATION: URBAN MINOR ARTERIAL

STATE OF OHIO **DEPARTMENT OF TRANSPORTATION**

SUM-241/764-7.78/VAR

CITY OF AKRON **SUMMIT COUNTY**

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STRUCTURES	P.21-24

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES							
Contact Two Working Days Before You Dig							
Before Tou Dig							
OHIO 811.org Before You Dig							
OHIO811, 8-1-1, or 1-800-362-2764 (Non members must be called directly)							

PLAN PREPARED BY: ODOT DISTRICT 4 CAPITAL PLANNING 2088 SOUTH ARLINGTON ROAD AKRON, OHIO 44306

			SUPPLE SPECIFIC		SPECIAL PROVISIONS				
	BP-3.1	1/17/20	TC-41.20	10/18/13			800-2019	4/22/22	FAA ADVISORY
	BP-3.2	1/18/19	TC-42.20	10/18/13			821	4/20/12	CIRCULAR
			TC-51.11	1/15/16			832	10/19/18	11/16/20
ENGINEER'S SEAL:	DM-4.3	1/15/16	TC-52.10	10/18/13			843	10/18/19	
ENGINEER S SEAL.	DM-4.4	1/15/16	TC-52.20	1/15/21			874	4/17/20	
			TC-61.10	1/17/20			921	4/20/12	
WINTE OF OFFICE	BP-5.1	1/18/19	TC-65.11	7/21/17					
MATTHEW	BP-7.1	7/17/20	TC-82.10	7/19/19					
CHANEY	MT-95.3	0 7/19/19	DS-1-92	7/18/03					
B E-78423 E	MT-95.3	1 7/19/19							
ONAL ENGLAND	MT-97.1	0 4/19/19				 			
MAL ENGINE	MT-97.1	2 1/20/17							
- sanstinana	MT-99.2	0 4/19/19							
SIGNED:	_ MT-105	10 1/17/20	J						
DATE: 3/22/22	MT-95.	41 1/17/20) AL	DED S	CD				
	V V	V V V	7						

FEDERAL PROJECT NUMBER

E170(131)

RAILROAD INVOLVEMENT

AKRON BARBERTON CLUSTER CO

PROJECT DESCRIPTION

RESURFACING OF SUM SR 241 AND SUM SR 764 IN THE CITY OF AKRON. INCLUDES MINOR BRIDGE REHAB TO ONE STRUCTURE.

EARTH DISTURBED AREAS

PROJECT EDA:

0.11 ACRES

ESTIMATED CONTRACTOR EDA: NOTICE OF INTENT EDA:

0.25 ACRES

NOI NOT REQUIRED

ROUTINE MAINTENANCE PROJECT

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.

LHEREBY 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.



CMW

MM 2-16-22 PROJECTIO

102737 P.1 24

DIRECTOR, DEPARTMENT OF TRANSPORTATION

DATE 3/21/22 DISTRICT DEPUTY DIRECTOR

APPROVED_

.78/VAR UM-241/767-7

ITEM 632 - DETECTOR LOOP, AS PER PLAN

THE CONTRACTOR SHALL CONTACT THE CITY OF AKRON (330-375-2015) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE FOLLOWING INTERSECTIONS:

SR 764 @ VIRGINIA AVE SR 764 @ SEIBERLING ST

LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE. THE LOOP DETECTOR WIRE WILL BE CUT INTO THE PAVEMENT AFTER THE PROPOSED SURFACE COURSE HAS BEEN PLACED. ALL STOP LINE INDUCTANCE DETECTOR LOOPS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL BE AS SPECIFIED BELOW. THE LOCATION OF THESE LOOPS SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT. ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS CALLED FOR IN THE PLANS SHALL BE THE ANGULAR DESIGN DETECTION (ADD) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10 AND THE LOOP SHALL BE PLACED AT THE SAME LOCATION AS THE EXISTING LOOPS.

THE QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE NEW LOOP DETECTOR WIRES SHALL BE RUN INTO THE EXISTING CONTROL BOX OR THE EXISTING PULLBOX. INCLUDED IN THIS ITEM IS THE POURED EPOXY TYPE CABLE SPLICE KIT (CONFORMING TO 725.15E) THAT MUST BE USED IN MAKING THESE CONNECTIONS. ALL NECESSARY MATERIAL, LABOR, SPLICE KITS AND EQUIPMENT SHALL BE INCIDENTAL TO PAYMENT OF THESE ITEMS.

632 DETECTOR LOOP, AS PER PLAN, 4 EACH (4 EACH, POWERHEAD, 25')

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR 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.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614. WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS, (UNIDIRECTIONAL) 2 EACH

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.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL) 6 EACH ITEM 614, OBJECT MARKER, TWO-WAY 6 EACH

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

Added Notes



CMW MJA 2-18-22 ROJECT ID

P.8 24

					_					PART.	01/2 515		- ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
5	6	7	8	3 11	12 13	17	18	19	01/NHS/PV/AKRO 02/NHS/OT/AKRO	03/S>2/PV/AKRO	04/S>2/OT/AKRC	05/S>2/BR	2	EXT	TOTAL				
		150	2	3					18	132		2	614	11110 12380	150		MAINTENANCE OF TRAFFIC LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)		
	80		2	3					40	40			614	12460	80		WORK ZONE MARKING SIGN		
	20			2					3	17			614	13000	20	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		
			6	13								6	614	13310	6	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)		
	11.88 6.46 3.23	6	6 	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\					0.58 0.29	5 11.88 5.88 2.94		6	614 614 614 614 614	13360 18601 20110 21100 21550	6 6 11.88 6.46 3.23	SNMT MILE MILE	OBJECT MARKER, TWO WAY PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT WORK ZONE CENTER LINE, CLASS I, 642 PAINT WORK ZONE CENTER LINE, CLASS III, 642 PAINT	7	
			_	3					0.40)				WORK TOUT TO STANK OF A CONTROL		
	7.84 3.74	1		7					2.12	5.72 3.74			614	22350 22360	7.84 3.74	MILE MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT		
	9.170		<u> </u>	3						9.170			614	23200	9.170		WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT		
	4,585 1,052		>						48	4,585 1,004			614	23680 26200	4,585 1,052	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT WORK ZONE STOP LINE, CLASS I, 642 PAINT		
	526		240						24	502	}	240	614	26610 41100	526 240		WORK ZONE STOP LINE, CLASS III, 642 PAINT PORTABLE BARRIER, UNANCHORED		ARY
				8							>	210	3	11100	210	' '			4
				R									}				INCIDENTALS		
			View							LS 12			614	11000 16010	LS 12	MNTH	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B		SUMM,
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DESIGN AGENCY

DESIGNER CMW REVIEWER
MJA 2-18-22

PROJECT ID 102737 SHEET TOTAL P.23 24

						CALC:	CMW		12/28/2021
			E \$	STIMATEI	D QUANTITIES	CHECKED:	MJA	DAIE:	2/18/2022
	BRIDGE NO. / STRUCTURE FILE NO.								
	SUM-764-0375 7711225 05/S>2/BR	ITEM	EXTENSION	UNIT	DESCRIPTION				SEE SHEET
		004	44004						1/
	LS	201	11001		CLEARING AND GRUBBING, AS PER PLAN				
	1	202	42000	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A				
	662	512	10050	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				
	662	512	74000	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES				
	720	513	90000	LB	STRUCTURAL STEEL, MISC.: REPLACEMENT OF DAMAGED CROSSFRAMES				
	100	513	90000	LB	STRUCTURAL STEEL, MISC.:STEEL BEAM REPAIRS				
	LS	514	00200		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				
	LS	514	00300		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				
	LS	514	00400		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				
	14	514	00504	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL				
		F44	40000	FAOLI	FINIAL INIODEOTION DEDAID				
	6	514	10000	EACH	FINAL INSPECTION REPAIR				
	LS	514	00100		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				1/
	LS	516	47001	FAOLI	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				<u> </u>
	12	516	45305	EACH	REFURBISH BEARING DEVICE, AS PER PLAN				<u> </u>
	72	516	10901	FT	ELASTOMERIC COMPRESSION SEAL, AS PER PLAN				
	450	519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN				2/4
	1	606	26150	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016				
	1	630	80100	SF	SIGN, FLAT SHEET, 730.20				
	6	630	80100	SF	SIGN, FLAT SHEET				
	3	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL				
			20100						
	21	630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST				
	2	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL				
	20	SPECIAL	53000500	HOUR	STRUCTURES, SALT REMEDIATION FOR STRUCTURE STEEL PAINTING				
	150	SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM				
	20	SPECIAL	53000800	SY	STRUCTURES, CONCRETE SPALL REMOVAL				
	turn the second								
	Updated quantity								
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SUM-241/767-7.78/VAR
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/16/2022 pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\\Documents\\01\) A