ITEM 622 - PORTABLE BARRIER, 50', AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE BARRIER AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS SEE. SCD RM-4.1.

PORTABLE STEEL BARRIER IS AN APPROVED ALTERNATIVE TO PORTABLE CONCRETE BARRIER FOR INFORMATION ON APPROVED VENDORS, SEE THE APPROVED PRODUCTS LIST MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING.

PORTABLE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OEE ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN.

WORK ZONE EGRESS WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE EGRESS WARNING SYSTEM (WZEWS) AS PER SUPPLEMENTAL SPECIFICATION 829

THE PROBABLE INITIAL LOCATIONS OF THE WZEWS DEVICES ARE SHOWN ON P. 19-20 OF THE PLAN. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. PLACEMENT, OPERATION, AND MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEEER.

WZEWS SHALL BE USED IN ACCORDANCE WITH MT-103.10. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY

ITEM 829, WORK ZONE EGRESS WARNING SYSTEM 40 SIGN MONTH ASSUMING <u>4</u> WORK ZONE EGRESS WARING SYSTEM(S) FOR 10 MONTH(S)

SEQUENCE OF CONSTRUCTION

PRE-PHASE 1:

PRIOR TO THE START OF PHASE 1. THE SOUTHTHBOUND OUTSIDE SHOULDER AND PORTIONS OF THE SOUTHBOUND INSIDE SHOULDERS MUST BE RECONSTRUCTED IN ORDER TO CARRY SHIFTED PHASE 1 AND PHASE 2 TRAFFIC.

ANY PRE-PHASE 1 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS LISTED IN THIS PLAN.

PHASE 1:

SHIFT SOUTHBOUND LANES ONTO OUTSIDE SHOULDER AND OUTSIDE LANE MATCHING THE PART 1 PLANS

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT PROPOSED AREA OF SOUTHBOUND I-71 ALONG WITH TEMPORARY PAVEMENT REQUIRED FOR PHASE 2 SHIFTED TRAFFIC AS SHOWN IN THE PLANS.

WINTER 2023:

TRAFFIC SHALL BE SHIFTED INTO PHASE 2 CONFIGURATION BY OCTOBER 1, 2023 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. TO PROVIDE ADDITIONAL SPACE FOR MOTORIST DURING THE WINTER, THE PHASE 2 PORTABLE BARRIER SHALL NOT BE SET IN THE FOLLOWING LOCATIONS UNTIL APRIL 1, 2024 UNLESS APPROVED BY THE ENGINEER:

STA. 425+00 TO STA. 444+85

IN LEUI OF PORTABLE BARRIER IN THESE LOCATIONS, DRUMS SHALL BE PLACED ALONG THE EDGE OF TRAVEL WAY. TEMPORARY IMPACT ATTENUATORS SHALL BE USED TO PROTECT THE ENDS OF THE PORTABLE BARRIER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AS PAYMENT FOR THIS WORK:

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE - 1 EA

WORK ON PHASE 2 MAY CONTINUE IN AREAS ADEQUATELY PROTECTED BY PORTABLE BARRIER.

EMERGENCY PULL-OFF SHOWN IN THE PLANS SHALL REMAIN OPEN OVER THE WINTER ADDITIONALLY A TEMPORARY PULL OFF SHALL BE CREATED USING EXISTING PAVEMENT ON THE WEST SIDE OF THE SOUTHBOUND LANES AT STA. 425+00 TO 438+20 PER THE DETAILS SHOWN ON SHEET P.20A. THE LOCATION OF THE TEMPORARY PULL-OFF MAY BE ADJUSTED AT THE DIRECTION OF THE ENGINEER. THE COSTS FOR ALL SIGNING. MATERIALS, AND EQUIPMENT NECESSARY TO PLACE THE TEMPORARY PULL-OFF SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

PHASE 2:

SHIFT I-71 SOUTHBOUND LANES ONTO COMPLETED INSIDE LANE AND SHOULDER OF SOUTHBOUND I-71 CONSTRUCTED DURING PHASE 1 MATCHING PART 1 PLANS.

DYER ROAD SHALL BE CLOSED TO TRAFFIC AND DETOURED AS SHOWN IN THE PLANS FOR THE DURATION OF PHASES 1 AND 2

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT PROPOSED AREA OF I-71 SOUTHBOUND AS SHOWN IN THE PLANS.

WINTER 2024:

THE PROJECT SHALL ENTER A WINTERIZATION PHASE BY OCTOBER 1, 2024 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. NORTHBOUND TRAFFIC SHALL REMAIN IN EXISTING CONFIGURATION. SOUTHBOUND TRAFFIC SHALL BE RECONFIGURED TO THE PROPOSED THREE LANE CONFIGURATION. NORTHBOUND RAMPS SHALL REMAIN IN EXISTING CONFIGURATION. SOUTHBOUND RAMPS SHALL BE OPENED IN FINAL CONFIGURATION.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN - 264 EACH ITEM 648 - EDGE LINE, WHITE, 6" - 3.00 MILES ITEM 648 - EDGE LINE, YELLOW, 6" - 3.00 MILES ITEM 648 - LANE LINE, 6" - 6.00 MILES

PRE-PHASE 3:

PRIOR TO THE START OF PHASE 3, THE NORTHBOUND MEDIAN CROSSOVERS AND NORTHBOUND INSIDE SHOULDER RECONSTRUCTION MUST BE COMPLETE IF NOT PREVIOUSLY COMPLETED

ANY PRE-PHASE 3 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS LISTED IN THIS PLAN.

PHASE 3:

I-71 SOUTHBOUND LANES SHALL BE SHIFTED ONTO THE OUTSIDE SHOULDER AND LANE MATCHING PART 1 PLANS.

CROSSOVER EXISTING I-71 NORTHBOUND LANES ONTO NEWLY CONSTRUCTED I-71 SOUTHBOUND INSIDE SHOULDER AND LANES.

DYER ROAD SHALL BE CLOSED TO TRAFFIC AND DETOURED AS SHOWN IN THE PLANS FOR THE DURATION OF PHASE 3.

CONSTRUCT PROPOSED AREAS OF I-71 NORTHBOUND AS SHOWN IN THE PLANS.

WINTER 2025:

THE PROJECT SHALL ENTER A WINTERIZATION PHASE BY OCTOBER 1, 2025 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. ALL TRAFFIC SHALL BE OPENED IN FINAL CONFIGURATION AND MAINTAINED ON INTERMEDIATE COURSE. PAVEMENT MARKINGS SHALL BE PLACED IN THEIR FINAL LOCATIONS PER THE TRAFFIC CONTROL PLAN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN - 536 EACH ITEM 648 - EDGE LINE, WHITE, 6" - <u>6.10</u> MILES ITEM 648 - EDGE LINE, YELLOW, 6" - 6.10 MILES ITEM 648 - LANE LINE, 6" - 12.20 MILES

SHOULD WORK DELAY AND FULL COMPLETION OF PHASE 3 WORK FOR PART 1 AND PART 2 NOT BE ACHIEVABLE, THE CONTRACTOR MAY IMPLEMENT A CROSSOVER NEAR THE SOUTHERN LIMIT OF PART 1 AT THE APPROVAL OF THE ENGINEER. THE CROSSOVER WILL RETURN NORTHBOUND TRAFFIC FROM PHASE 3 TO THE COMPLETED NORTHBOUND PAVEMENT. SEE PART 1 FOR DETAILS.

MILES

OVERHEAD STRUCTURE CONSTRUCTION:

OVERHEAD BRIDGE CONSTRUCTION SHALL OCCUR AT ANY TIME DURING THE PROJECT. SIDE ROADS SHALL BE CLOSED AND DETOURED AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC NEEDS ALONG I-71 WITH THE RESPECTIVE PHASE OF I-71 MAINTENANCE OF TRAFFIC.

<u>PHASE 4:</u>

AT THE CONCLUSION OF THE 2025 WINTER PHASE. COMPLETE ANY REMAINING FULL DEPTH RECONSTRUCTION WORK. THE REMAINING EXISTING I-71 PAVEMENT THAT IS TO BE RESURFACED (OUTSIDE THE FULL DEPTH LIMITS) SHALL BE MILLED TO THE DEPTH SPECIFIED IN THE PLANS. THE FINAL WEARING COURSE OF BOTH NEWLY CONSTRUCTED AND EXISTING MILLED PAVEMENTS SHALL THEN BE INSTALLED. ONCE COMPLETED. FINAL PAVEMENT MARKINGS SHALL BE APPLIED PER THE TRAFFIC CONTROL PLANS. THIS WORK SHALL BE COMPLETED BY UTILIZING ODOT SCD MT-97.11. IN ADDITION TO THIS WORK, THE MEDIAN CABLE BARRIER SHALL BE INSTALLED PER THE ROADWAY PLANS AND TEMPORARY PAVEMENT SHALL BE REMOVED BY UTILIZING ODOT SCD MT-95.45 EXCEPT DRUMS MAY BE USED IN THE PLACE OF PCB AS LONG AS DROP-OFF REQUIREMENTS ARE MET (PER \$PBQF56PB44F4Q4:9Q2

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

ITEM 614 - WORK ZONE EDGE LINE, WHITE, 6", CLASS III, 642 PAINT - <u>6.10</u> MILES

ITEM 614 - WORK ZONE EDGE LINE, YELLOW, 6", CLASS III, 642 PAINT - 6.10 MILES

ITEM 614 - WORK ZONE LANE LINE, 6", CLASS III, 642 PAINT - 12.20



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140,733 140,733	ZE: ^			3,100								2,108	992	507	00200	3,100	FT	STEEL PILES HP12X53, FURNISHED
9 592 6 523 3 069 509 10001 9 592 LB EPOXY COATED STEEL REINFORCEMENT AS PER PLAN	ERSI ts/10			2,780								1,891	889	507	00250	2,780	FT	STEEL PILES HP12X53, DRIVEN
9,592 9,592 Image: Constraint of the cons	PAP orkse											· · ·						
6,711 4,564 2,147 509 30020 6,711 FT NO. 4 DEFORMED GFRP REINFORCEMENT	heet T_Wc																	· · · · · · · · · · · · · · · · · · ·
	EL. S HDO			6,711								4,564	2,147	509	30020	6,711	FT	NO. 4 DEFORMED GFRP REINFORCEMENT
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MAD-71-4.56

TION	SEE SHEET NO.	
AN (MAD-71-0631R) CONT.		
TOPPED CULVERT, AS PER PLAN (33'-4" SPAN X 10'-0" RISE)	285	
	286	
SPAN (MAD-71-0668L)		
SFAN (WAD-7 1-0000L)	310, 314, 315, 317-320	
	317-320	
	310, 317	
	317	
		GENERAL SUMMARY
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	345	
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	338 338	
OPRENE) (11.5"x17"x2.049")		
OPRENE), AS PER PLAN (10"x14"x2.499" W/LOAD PLATE ASSEMBLY)	335	
	344, 345	
AS PER PLAN	324, 328	
PLAN	353	
	353	
SPAN (MAD-71-0668R)	310, 314, 315, 317-320	DESIGN AGENCY
	317-320	
	310, 317	
		E.L. ROBINSON E N G I N E E R I N G
		1468 West 9th St, Sulle 800 Cleveland, Ohio 950 Goodale Blvd, Sulte 180 Grandview Heights, Ohio
		Grandview Heights, Ohio DESIGNER
		KRF
		REVIEWER
	333	MJC 04/26/22 PROJECT ID
		107630
		SHEET TOTAL
		P.59 458

DESCRIPTIO	UNIT	GRAND	ITEM	ITEM		RT.	PAI					NUM	SHEET			
	UNIT	TOTAL	EXT		09/IMS/10	08/IMS/11	07/IMS/03	06/IMS/04	313	23	14	13	12	11	10	9
STRUCTURE OVER 20 FOOT SPAN CLASS QC2 CONCRETE WITH QC/QA. BRIDGE DECK	СҮ	335	34446	511	107	228			335							
CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	CY	66	34451	511	21	45			66							
CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN	CY	159	40513	511	50	109			159							
CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	CY	140	43512	511	44	96			140							
CLASS QC1 CONCRETE WITH QC/QA, FOOTING	CY	134	46512	511	42	92			134							
			10/00	540	0.40	740			4 000	'						
SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SY SY	1,090 20	10100 33000	512 512	348 6	742 14			1,090							
TYPE 2 WATERPROOFING	51	20	33000	512	0	14			20							
STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN	LB	222,000	10241	513	71,040	150,960			222,000							
WELDED STUD SHEAR CONNECTORS	EACH	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	20000	513		-4,162			6129							
FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN	SF	(970)	00061	514	1,958 310	660	(970							
FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN	SF		00067	514	310	660	(970	ļ!						
		\mathcal{T}			\mathcal{L}	مي			r r	'						
	FT	114	10010	516	36	78			114	'						
2/2" PREFORMED EXPANSION JOINT FILLER	SF SF	100	13200 13600	516 516	32 37	68 80			100							
1" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER	SF SF	117 45	13600	516	37 14	31			117 45							
INTEGRAL ABUTMENT EXPANSION JOINT FIELEN	FT	138	14014	516	44	94			138							
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOP		16	44100	516	5	11			160							
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOP	EACH	16	44101	516	5	11			16							
POROUS BACKFILL WITH GEOTEXTILE FABRIC	CY	117	21200	518	37	80			117	L						
6" PERFORATED CORRUGATED PLASTIC PIPE	FT	164	40000	518	52	112			164							
6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS	FT	50	40011	518	16	34			50	'						
REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLA	SY	330	25011	526	105	225			330							
TYPE C INSTALLATION, AS PER PLAN	FT	114	90031	526	36	78			114							
ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CY	283	32100	601	90	193			283							
MAINTENANCE OF 1																
STABILIZED CRUSHED AGGREGATE	CY	1,238	10000	411			396	842		1,238						
LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	HOUR	750	11110	614			240	510				750				
INCREASED BARRIER DELINEATION	FT	500	11630	614			160	340					500			
WORK ZONE GUARDRAIL	FT	275	61412200	SPECIAL			88	187		275						
WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	EACH	2	12380	614			1.0	2		1	1					
DETOUR SIGNING WORK ZONE INCREASED PENALTIES SIGN	EACH	LS 21	12420 12484	614 614			LS 6	LS 15		'					21	
WORK ZONE INCREASED PENALITES SIGN	EACH	21	12404	014			0	10							21	
REPLACEMENT SIGN	EACH	5	12500	614			1	4						5		
REPLACEMENT DRUM	EACH	150	12600	614			48	102						150		
WORK ZONE CROSSOVER LIGHTING SYSTEM	EACH	1	12756	614				1							1	
WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	EACH	2,192	12801	614			701	1,491			800			1,392		
BARRIER REFLECTOR, TYPE 1, (ONE WAY)	EACH	1,238	13310	614			396	842					1,238			
										'						
BARRIER REFLECTOR, TYPE 2, (ONE WAY)	EACH	52	13312	614			16	36		'			004	52		
OBJECT MARKER, ONE WAY OBJECT MARKER, TWO WAY	EACH EACH	656 314	13350 13360	614 614			209 100	447 214					604 314	52		
PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	SNMT	72	18601	614			23	49					514	72		
WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	MILE	24.4	22056	614			7.4	17		24.4				12		
								$\sim \sim \sim$		-113	\sim					
WORK ZONE LANE LINE, CLASS I. 6", 807 PAINT WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT		Y Y 1 2.2 Y	20056 20560	Y Y Y 614	- Y - Y	YYY	$\xrightarrow{33}_{3.2}$	Y 9 Y		X X X	12.2	(
WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	MILE	12.2	22360	614			3.2	. 9			12.2					
WORKZONECHARNECTZINOLINE, OCASON, 12,807 PAINT			2344D		\sim	\mathcal{N}	1,010	$\lambda_{2,7}$	\sum		\sim					
WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	FT	1,115	24102	614			356	759		1,115						
WORK ZONE SPEED MEASUREMENT MARKING, CLASS I, 642 PAINT	EACH	15	32658	614			4	11		'						15
ROADS FOR MAINTAINING TRAFFIC	ev.	LS	10000	615			LS	LS		11 900						
PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	SY SY	11,892 19,617	20000 20001	615 615			3,805 6,277	8,087 13,340		11,892 19,617						
WATER	MGAL	254	10000	616			81	173		19,017					254	
RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	MILE	12.1	41000	618			3.1	9		12.1					204	
				0.0				,								
PORTABLE BARRIER, 50", AS PER PLAN	FT	45,382	41011	622			14,522	30,860		45,382						
PORTABLE BARRIER, ANCHORED	FT	607	41110	622			194	413		607						
DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	SNMT	152	18700	808			48	104							152	
WORK ZONE EGRESS WARNING SYSTEM	SNMT	40	00100	829			12	28		 '	40					
			11000	£11	10	10	10	10								
MAINTAINING TRAFFIC		LS LS	11000 10000	614 623	LS LS	LS LS	LS LS	LS LS		'						LS
CONSTRUCTION LAVOUT STAKES AND SUBVEYING		LO	10000	020	LO	LO	LO	LO		 '						
CONSTRUCTION LAYOUT STAKES AND SURVEYING MOBILIZATION		1.5	10000	624	1.5	1.5	1.5	1.5		•			I			
CONSTRUCTION LAYOUT STAKES AND SURVEYING MOBILIZATION INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS		LS LS	10000 25000	624 878	LS	LS	LS	LS		ļ						

TION	SEE SHEET NO.	
AN (MAD-71-0668R) CONT.		
AN	353	
N	333	
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	338	
OPRENE) (11.5"x17"x2.049" W/LOAD PLATE)		\succ
OPRENE), AS PER PLAN (10"x14"x2.499" W/LOAD PLATE ASSEMBLY)	335	Ϋ́Υ Ι
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	206 220	
AS PER PLAN	326, 330	S
PLAN	353	JL I
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OF TRAFFIC		
		GENERAL SUMMARY
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		DESIGN AGENCY
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	_	
		E.L. ROBINSON E N G I N E E R I N G
	14	1468 West 9th St, Sulte 800 Cleveland, Ohio 950 Goodale Blvd, Sulte 180 Grandview Heights, Ohio
		DESIGNER
		KRF
ALS		REVIEWER MJC 04/26/22
		PROJECT ID
		107630 SHEET TOTAL
		P.60 458

	ADE BY: DTA/GA D BY: BCW/MRV	DATE: 10, DATE: 10,		ESTIMATED QUANTITIES - LEFT BRIDGE				STR	UCTURAL FILE NUMBER: 49033
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	4, 8, 9, 11, 12, 13, AND 14 OF 5
202	22900	247	SY	APPROACH SLAB REMOVED				247	
503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LUMP	4 AND 11 OF 52
503	21100	624	CY	UNCLASSIFIED EXCAVATION	187	437			
504	11101	1,337	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (ELASTIC SECTION MODULUS = 18.1 CU IN/FT)				1,337	11 OF 52
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION				LUMP	
507	00200	3,100	FT	STEEL PILES HP12X53, FURNISHED	900	2,200			
507	00250	2,780	FT	STEEL PILES HP12X53, DRIVEN	800	1,980			
509	10000	112,592	LB	EPOXY COATED REINFORCING STEEL	14,934	28,336	69,322		
509 509	10001 30020	38,262 6,711	LB FT	EPOXY COATED REINFORCING STEEL, AS PER PLAN NO. 4 GFRP DEFORMED BARS		9,592	28,670 6,711		25 AND 38 OF 52
511	34446	335	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			335		17.05.50
511 511	34451 40513	66 159	CY CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN		159	66		47 OF 52 25 OF 52
511	43512	140	<u> </u>	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS FER FLAN CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	140	159			23 0F 32
511	46512	134	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	140	134			
512	10100	1.090	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	86	501	409	94	
512	33000	30	SY	TYPE 2 WATERPROOFING	30	001	400	54	
513	10241	222,000	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN			222,000		39 OF 52
513	20000	6,120	EACH	WELDED STUD SHEAR CONNECTORS			6,120		
514	00061	970	SF	FIELD PAINTING STRUCTURAL STEEL. INTERMEDIATE COAT. AS PER PLAN			970		32 OF 52
514	00067	970 X	SF SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN FIELD PAINTING STRUCTURAL STEEL. FINISH COAT, AS PER PLAN			Y 970 X		32 OF 52
514	00007	$\overline{\boldsymbol{x}}$	35	FIELD FAINTING STRUCTURAL STEEL, FINISH COAT, AS FER FLAIN)	32 01 32
516	10010	114	FT	ARMORLESS PREFORMED JOINT SEAL				114	
516	13200	100	SF	1/2" PREFORMED EXPANSION JOINT FILLER	100				
516	13600	117	SF	1" PREFORMED EXPANSION JOINT FILLER	100		17		
516	13900	45	SF	2" PREFORMED EXPANSION JOINT FILLER	45				
516	14014	138	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	138				
516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (11.5"x17"x2.049")		16			00.05.50
516	44101	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (10"x14"x2.499" W/LOAD PLATE ASSEMBLY)	16				29 OF 52
518	12301	10	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN			10		38 AND 39 OF 52
518	21200	117	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	117				
518	40000	164	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	164				
518	40011	80	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	80				18 AND 22 OF 52
523	20000	2	EACH	DYNAMIC LOAD TESTING				2	
526	25011	330	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN				330	47 OF 52
526	90031	114	FT	TYPE C INSTALLATION, AS PER PLAN				114	47 OF 52
604	22400	282	<u>OV</u>		000				
601	32100	283	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	283				



	ADE BY: DTA/GA D BY: BCW/MRV		10/6/2022 10/6/2022			STRUCTURAL FILE NUMBER: 4903367			
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	4, 8, 9, 11, 12, 13, AND 14 OF 52
202	22900	247	SY	APPROACH SLAB REMOVED				247	
503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LUMP	4 AND 11 OF 52
503	21100	633	CY	UNCLASSIFIED EXCAVATION	196	437			
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION				LUMP	
507	00200	3,100	FT	STEEL PILES HP12X53, FURNISHED	900	2,200			
507	00250	2,780	FT	STEEL PILES HP12X53, DRIVEN	800	1,980			
509	10000	140,733	LB	EPOXY COATED REINFORCING STEEL	14,924	28,078	97,731		
509	10000	9,592	LB	EPOXY COATED REINFORCING STEEL EPOXY COATED REINFORCING STEEL, AS PER PLAN	14,324	9,592	31,131		27 OF 52
509	30020	6,711	FT	NO. 4 GFRP DEFORMED BARS		3,332	6,711		21 01 32
000	00020	0,111					0,777		
511	34446	335	СҮ	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			335		
511	34451	66	СҮ	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN			66		47 OF 52
511	40513	159	СҮ	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN		159			27 OF 52
511	43512	140	СҮ	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	140				
511	46512	134	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING		134			
512	10100	1,090	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	86	501	409	94	
512	33000	20	SY	TYPE 2 WATERPROOFING	20				
513	10241	222,000	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN			222,000		39 OF 52
513	20000	6.120	EACH	WELPED STUD SHEAR CONNECTORS			6,120		
514	00061	970	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN			× 970		32 OF 52
514	00067	(970 \	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN			(970 〈		32 OF 52
		J.J.							
516	10010	114	FT	ARMORLESS PREFORMED JOINT SEAL				114	
516	13200	100	SF	1/2" PREFORMED EXPANSION JOINT FILLER	100				
516	13600	117	SF	1" PREFORMED EXPANSION JOINT FILLER	100		17		
516	13900	45	SF	2" PREFORMED EXPANSION JOINT FILLER	45				
516	14014	138	FT		138				
516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (11.5"x17"x2.049" W/LOAD PLATE)		16			00.05.50
516	44101	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (10"x14"x2.499" W/LOAD PLATE ASSEMBLY)	16				29 OF 52
518	21200	117	СҮ	POROUS BACKFILL WITH GEOTEXTILE FABRIC	117				
518	40000	164	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	164				
518	40011	50	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	50				20 AND 24 OF 52
526	25011	330	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN				330	47 OF 52
526	90031	114	FT	TYPE C INSTALLATION, AS PER PLAN				114	47 OF 52
601	32100	283	СҮ	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	283				
007	32100	203	01	NON GRANNEL FROTEGRON, FIFE & WITT FILTER	263				

