

MADE BY: LAH		DATE: 6/1/2023		ESTIMATED QUANTITIES					STRUCTURAL FILE NUMBER: 4305167	
CHECKED BY: MJM		DATE: 6/5/2023								
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	SUPER	PIER	GEN.	REFERENCE SHEET NO.	
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				1	STRUCTURE - GENERAL NOTES - 1 OF 2	
202	22900	317	SY	APPROACH SLAB REMOVED				317		
203	20001	53	CY	EMBANKMENT, AS PER PLAN				53	STRUCTURE - GENERAL NOTES - 1 OF 2	
503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				1	STRUCTURE - GENERAL NOTES - 1 OF 2	
503	21101	74	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN				74	STRUCTURE - GENERAL NOTES - 1 OF 2	
509	10000	326,366	LB	EPOXY COATED STEEL REINFORCEMENT	25,007	284,110	17,249			
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN		100			STRUCTURE - GENERAL NOTES - 2 OF 2	
509	26000	521	LB	GALVANIZED STEEL REINFORCEMENT	521					
509	30020	13,732	FT	NO. 4 DEFORMED GFRP REINFORCEMENT		13,732				
510	10001	959	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	323		636		STRUCTURE - GENERAL NOTES - 2 OF 2	
511	34447	988	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN		988			STRUCTURE - GENERAL NOTES - 2 OF 2	
511	34451	136	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN		136			STRUCTURE - GENERAL NOTES - 2 OF 2	
511	42511	110	CY	CLASS QC1 CONCRETE, PIER CAP, AS PER PLAN			110		STRUCTURE - GENERAL NOTES - 2 OF 2	
511	44113	227	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING, AS PER PLAN	227				STRUCTURE - GENERAL NOTES - 2 OF 2	
512	10100	3,724	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		1,870	1,854		STRUCTURE - GENERAL NOTES - 2 OF 2	
512	33000	5	SY	TYPE 2 WATERPROOFING		5				
513	10200	135,283	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF		135,283				
513	10280	940,634	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4		940,634				
513	20000	15,780	EACH	WELDED STUD SHEAR CONNECTORS		15,780				
516	11210	239	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL (4")		239				
516	13600	109	SF	1" PREFORMED EXPANSION JOINT FILLER	109					
516	44100	20	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (16"x21"x2.8735")		20				
516	44100	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (FIXED - 16"x21"x2.8735")		10				
516	44300	20	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (12" x 16" x 3.9482")		20				
518	21200	162	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	162					
518	40000	280	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	280					
518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100					
519	11101	118	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	118				STRUCTURE - GENERAL NOTES - 2 OF 2	
526	25001	441	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN				441	STRUCTURE - GENERAL NOTES - 2 OF 2	
601	21150	11	CY	SLOPE PROTECTION, MISC. GROUTING OF CRUSHED AGGREGATE SLOPE PROTECTION				11	STRUCTURE - GENERAL NOTES - 2 OF 2	
607	39901	806	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN (6'-6" TALL)		806			STRUCTURE - GENERAL NOTES - 2 OF 2	
623	10001	LUMP		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN					STRUCTURE - GENERAL NOTES - 2 OF 2	
625	33001	1	EACH	STRUCTURE GROUNDING SYSTEM, AS PER PLAN				1	STRUCTURE - GENERAL NOTES - 2 OF 2	
845	98000	54,943	SF	FIELD METALLIZING, MISC.: SHOP METALLIZING NEW GIRDERS		54,943			STRUCTURE - GENERAL NOTES - 2 OF 2	
846	00110	96	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM				96		

ESTIMATED QUANTITIES  
 BRIDGE NO. LAK-91-0423  
 SR 91 OVER CSX AND NS RAILROADS

SFN  
 4305167  
 DESIGN AGENCY  
  
**E.L. ROBINSON**  
 ENGINEERING  
 1488 West 9th St, Suite 800  
 Cleveland, Ohio 44115  
 950 Goodale Blvd, Suite 160  
 Grandview Heights, Ohio 44131  
 DESIGNER: MJM  
 CHECKER: JOL  
 REVIEWER:  
 RER 5/14/24  
 PROJECT ID:  
 105187  
 SUBSET TOTAL  
 6 42  
 SHEET TOTAL  
 82 157