

**HAS-022-15.11 PAVEMENT RECONSTRUCTION**

MODEL: Sheet4 PAPER: 34x22 (in.) DATE: 3/13/2026 TIME: 2:38:24 PM USER: ETheller  
 p:\arcadis-us-pw\entley.com\arcadis-us-01\Documents\01 Active Projects\30181931400\_CAD\401-Engineering\_Arcadis\WOT\Sheets\113440\_MS001.dgn

REF. NO.	SHEET NO.	STATION	LOCATION	SIDE	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622			
					INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (BIDIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	OBJECT MARKER, TWO WAY EACH	WORK ZONE CENTER LINE, CLASS I, 642 PAINT MI	WORK ZONE EDGE LINE, CLASS I, 6" (WHITE), 642 PAINT MI	WORK ZONE EDGE LINE, CLASS I, 6" (YELLOW), 642 PAINT MI	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, (WHITE), 642 PAINT FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT MI	WORK ZONE ARROW, CLASS I, 642 PAINT EACH	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	PORTABLE BARRIER, UNANCHORED FT	PORTABLE BARRIER, 50", AS PER PLAN FT	DUAL PORTABLE BARRIER TRANSITION TERMINATION EACH		
<b>PHASE 1</b>																							
WEW-11	P.53	963+50	988+50	US-22	LT																		
GRD-13	P.53	964+20	968+37	US-22	LT																		
GRD-14	P.53	978+91	985+44	US-22	LT			9															
WEW-10	P.54	988+50	1008+18	US-22	LT / RT																		
WEY-1	P.54	988+50	991+74	US-22	LT																		
PCB50-1	P.54	988+50	991+33	US-22	LT			12															
WEY-2	P.54	988+50	991+74	US-22	LT																		
WEW-11	P.54	988+50	1008+18	US-22	LT / RT																		
WIA-12	P.54	991+33		US-22	LT																		
WCL-5	P.54	991+74	1007+02	US-22	LT / RT																		
WCL-6	P.54	991+74	1008+18	US-22	LT / RT																		
GRD-15	P.54	991+89	993+79	US-22	LT			5															
<b>PHASE 1A</b>																							
WEW-1A	P.56	792+20	813+50	US-22	RT																		
WCL-1A	P.56	793+53	798+37	US-22	RT																		
WEY-1A	P.56	798+37	813+50	US-22	RT																		
WIA-1A	P.56	798+78		US-22	RT																		
PB-1A	P.56	798+88	810+60	US-22	RT																		
PB-2A	P.56	798+88	809+98	US-22	RT																		
TP-8	P.56	798+93	804+03	US-22	RT																		
WIA-2A	P.56	810+60		US-22	LT																		
WEY-1A	P.57	813+50	837+69	US-22	RT																		
WEW-1A	P.57	813+50	837+69	US-22	RT																		
WEY-2A	P.57	809+74	837+18	US-22	LT																		
WDLW-1A	P.57	815+51	821+56	US-22	LT																		
WL-1A	P.57	815+51	837+69	US-22	RT																		
WL-2A	P.57	821+56	837+18	US-22	LT																		
WCH-1A	P.57	836+40	837+69	US-22	RT																		
WL-3A	P.57	838+25	838+50	US-22	LT																		
WCH-2A	P.57	838+25	838+50	US-22	LT																		
WEY-3A	P.57	838+25	838+50	US-22	RT																		
WEY-4A	P.57	838+25	838+50	US-22	RT / LT																		
WSL-1A	P.57	00+69	00+79	INDUSTRIAL PARK RD.	LT																		
WSL-1A	P.58	00+79	00+82	INDUSTRIAL PARK RD.	RT																		
WL-3A	P.58	838+50	863+50	US-22	LT																		
WCH-2A	P.58	838+50	839+57	US-22	LT																		
WEY-4A	P.58	838+50	863+50	US-22	LT																		
WEY-3A	P.58	838+50	863+50	US-22	RT																		
WL-4A	P.58	838+50	863+50	US-22	RT																		
WEW-2A	P.58	838+50	863+50	US-22	RT																		
WL-3A	P.59	863+50	888+50	US-22	LT																		
WEY-4A	P.59	863+50	888+50	US-22	LT																		
WEY-3A	P.59	863+50	888+50	US-22	RT																		
WL-4A	P.59	863+50	888+50	US-22	RT																		
WEW-2A	P.59	863+50	06+24	US-22 / RAMP C	RT																		
WDLW-2A	P.59	866+84	870+58	US-22	RT																		
WDLW-3A	P.59	868+49	873+88	US-22	LT																		
WCH-3A	P.59	870+58	871+70	US-22	RT																		
<b>TOTALS CARRIED TO SHEET P.32</b>																							
						303	3	101	797	82	0.69	2.76	3.26	377	1518	56	2.62	0	47	2623	0	1	

**MAINTENANCE OF TRAFFIC SUBSUMMARY**

DESIGN AGENCY  
**ARCADIS**  
 222 SOUTH MAIN STREET SUITE 200  
 FAYETTEVILLE, AR 72701  
 PHONE: (501) 434-1985  
 WWW.ARCADIS.COM

DESIGNER  
**EJT**

REVIEWER  
**TJR**

PROJECT ID  
**113440**

SHEET TOTAL  
**P.26 736**

**HAS-022-15.11 PAVEMENT RECONSTRUCTION**

MODEL: Sheet10 PAPER: 34x22 (in.) DATE: 3/13/2026 TIME: 4:21:27 PM USER: EThaller  
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REF. NO.	SHEET NO.	STATION	LOCATION	SIDE	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622					
					INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (BIDIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	OBJECT MARKER, TWO WAY EACH	WORK ZONE CENTER LINE, CLASS I, 642 PAINT MI	WORK ZONE EDGE LINE, CLASS I, 6" (WHITE), 642 PAINT MI	WORK ZONE EDGE LINE, CLASS I, 6" (YELLOW), 642 PAINT MI	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, (WHITE), 642 PAINT FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT MI	WORK ZONE ARROW, CLASS I, 642 PAINT EACH	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	PORTABLE BARRIER, UNANCHORED FT	PORTABLE BARRIER, 50", AS PER PLAN FT	DUAL PORTABLE BARRIER TRANSITION TERMINATION EACH				
TOTALS FROM SHEET P.23					324	6	259	320	155	1.02	3.13	1.74	541	470	24	0.00	4	1893	2282	4550	0				
TOTALS FROM SHEET P.24					720	4	303	117	172	0.00	2.28	2.13	1225	2187	0	0.00	0	1677	985	5000	0				
TOTALS FROM SHEET P.25					1058	4	397	101	240	0.00	2.10	2.21	787	2812	0	0.00	0	2879	2617	5000	1				
TOTALS FROM SHEET P.26					303	3	101	797	82	0.69	2.76	3.26	377	1518	56	2.62	0	47	2623	0	1				
TOTALS FROM SHEET P.27					0	0	0	223	0	0.00	2.76	2.27	1577	3360	83	1.90	0	0	0	0	0				
TOTALS FROM SHEET P.28					306	2	41	240	29	0.82	3.94	2.14	540	347	56	2.09	0	0	1409	0	0				
TOTALS FROM SHEET P.29					854	3	434	265	251	0.14	2.17	2.97	471	2393	0	0.00	0	1309	2859	6741	0				
TOTALS FROM SHEET P.30					3081	4	352	101	171	0.00	2.03	1.29	896	1891	0	0.00	0	3058	4102	2500	0				
TOTALS FROM SHEET P.31					0	2	293	214	179	0	2.73	2.69	104	514	0	0.00	0	0	87	5699	0				
TOTALS CARRIED TO GENERAL SUMMARY					6646	28	2180	2378	1279	2.67	44.60		6518	15492	219	6.60	4	10861	16964	29490	2				

**MAINTENANCE OF TRAFFIC SUBSUMMARY**

DESIGN AGENCY  
**ARCADIS**  
 222 SOUTH MAIN STREET SUITE 200  
 ARCADIS, MISSOURI 64736  
 (314) 434-1955  
 www.arcadis.com

DESIGNER  
**EJT**

REVIEWER  
**TJR 11-10-25**

PROJECT ID  
**113440**

SHEET TOTAL  
**P.32 | 736**

**HAS-022-15.11 PAVEMENT RECONSTRUCTION**

MODEL: Sheet\_SurvFl\_PAPER SIZE: 34x22 (in.) DATE: 3/13/2026 TIME: 3:38:36 PM USER: TBunick  
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SHEET NUM.														PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.17	P.18	P.88	P.91	P.92	P.94	P.100	P.101	P.467	P.468	P.469	P.470	P.471	Office Calc	01/NHS	EXT	TOTAL				
<b>ROADWAY</b>																				
LS					1				1					LS	201	11000	LS		CLEARING AND GRUBBING	
														2	202	20010	2	EACH	HEADWALL REMOVED	
		176											180,780	180,780	202	23000	180,780	SY	PAVEMENT REMOVED	
					266									176	202	30700	176	FT	CONCRETE BARRIER REMOVED	
														266	202	35100	266	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
					12									12	202	35200	12	FT	PIPE REMOVED, OVER 24" DIAMETER	
		22,322												22,322	202	38000	22,322	FT	GUARDRAIL REMOVED	
		412												412	202	38300	412	FT	GUARDRAIL REMOVED, BARRIER DESIGN	
		48												48	202	42206	48	EACH	ANCHOR ASSEMBLY REMOVED	
		26												26	202	47000	26	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
		4												4	202	47800	4	EACH	IMPACT ATTENUATOR REMOVED	
					19				1					20	202	58100	20	EACH	CATCH BASIN REMOVED	
					6									6	202	58200	6	EACH	INLET REMOVED	
										328				328	SPECIAL	20270000	328	FT	FILL AND PLUG EXISTING CONDUIT, 27" DIAMETER	
			16,235	3,546						11	10	60		19,862	203	10000	19,862	CY	EXCAVATION	
			2,335	424	3				60	2				2,824	203	20000	2,824	CY	EMBANKMENT	
600														600	204	13000	600	CY	EXCAVATION OF SUBGRADE	
600														600	204	30010	600	CY	GRANULAR MATERIAL, TYPE B	
														7	204	45000	7	TON	PROOF ROLLING	
													5,870	206	10500	5,870	TON	CEMENT		
													194,627	194,627	206	11000	194,627	SY	CURING COAT	
													194,627	194,627	206	15020	194,627	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
		20,400												20,400	606	15050	20,400	FT	GUARDRAIL, TYPE MGS	
		425												425	606	15150	425	FT	GUARDRAIL, TYPE MGS HALF POST SPACING	
		325												325	606	15550	325	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
														23	606	26150	23	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
														20	606	26550	20	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
														11	606	35002	11	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
														6	606	35102	6	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
														4	606	60012	4	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	
														72	622	10160	72	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
														135	622	24001	135	FT	CONCRETE BARRIER, TYPE D, AS PER PLAN	
														2	622	25000	2	EACH	CONCRETE BARRIER END SECTION, TYPE D	
														2	622	25050	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
														<b>EROSION CONTROL</b>						
												3		3	601	11000	3	SY	RIPRAP, TYPE D	
						118								118	601	21050	118	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					2			5	5	2	4	2		4	601	32104	4	CY	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC	
														16	601	32204	16	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
	2													2	659	00100	2	EACH	SOIL ANALYSIS TEST	
	10,481						3,564							14,045	659	00300	14,045	CY	TOPSOIL	
			80,067	14,351										94,418	659	10000	94,418	SY	SEEDING AND MULCHING	
														4,721	659	14000	4,721	SY	REPAIR SEEDING AND MULCHING	
														4,721	659	15000	4,721	SY	INTER-SEEDING	
														21.24	659	20000	21.24	TON	COMMERCIAL FERTILIZER	
														19.51	659	31000	19.51	ACRE	LIME	
														523	659	35000	523	MGAL	WATER	
					1,273									32,077	670	00500	32,077	SY	SLOPE EROSION PROTECTION	
														1,273	670	00700	1,273	SY	DITCH EROSION PROTECTION	
														LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
														LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
														LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
							350,000							350,000	832	30000	350,000	EACH	EROSION CONTROL	
														<b>DRAINAGE</b>						
					0.5				0.8	1.1		1		LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
														3.4	602	20000	3.4	CY	CONCRETE MASONRY	
						36,992								36,992	605	11110	36,992	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
						740								790	605	13410	790	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
						4,661								4,661	605	13500	4,661	FT	6" ROCK CUT UNDERDRAINS	
						77,513								77,513	605	14020	77,513	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
						764								764	611	00510	764	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	

**GENERAL SUMMARY**

DESIGN AGENCY  
**ARCADIS**  
 222 SOUTH MAIN STREET SUITE 200  
 ANN ARBOR, MI 48106  
 (313) 434-1985  
 www.arcadis.com

DESIGNER  
 TB

REVIEWER  
 SMG 11-10-25

PROJECT ID  
 113440

SHEET TOTAL  
 P.84 736

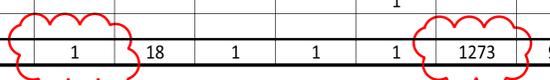
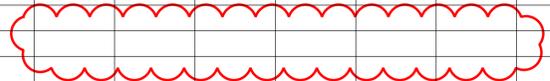




**HAS-022-15.11 PAVEMENT RECONSTRUCTION**

MODEL: Sheet\_SurvFl\_PAPER SIZE: 34x22 (in.) DATE: 3/13/2026 TIME: 3:02:39 PM USER: T.Bunick  
 p:\arcadis-us-pw\entley.com\arcadis-us-01\Documents\01 Active Projects\301831400\_CAD\401-Engineering\_Arcadis\Drainage\Sheets\113440\_DS007.dgn

REF NO.	SHEET NO.	STATION TO STATION	202	202	202	202	202	203	601	602	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	670	899	
			HEADWALL REMOVED EACH	PIPE REMOVED, 24" DIAMETER AND UNDER FT	PIPE REMOVED, OVER 24" DIAMETER FT	CATCH BASIN REMOVED EACH	INLET REMOVED EACH	EMBANKMENT CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	CONCRETE MASONRY CY	12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE B, 707.24 FT	12" CONDUIT, TYPE B, 707.33 FT	15" CONDUIT, TYPE B, 706.02 FT	15" CONDUIT, TYPE B, 707.33 FT	18" CONDUIT, TYPE B, 706.02 FT	18" CONDUIT, TYPE B, 707.33 FT	18" CONDUIT, TYPE C FT	24" CONDUIT, TYPE B, 706.02 FT	30" CONDUIT, TYPE B, 706.08 FT	30" CONDUIT, TYPE B, 706.24 FT	CATCH BASIN, NO. 4 EACH	CATCH BASIN, NO. 8 EACH	INLET, NO. 2-6, AS PER PLAN EACH	INLET, NO. 2-8, AS PER PLAN EACH	INLET, NO. 2-10, AS PER PLAN EACH	DITCH EROSION PROTECTION SY	30" DIAMETER CURED-IN-PLACE PIPE LINER FT
		CL CONST. US-22 WB																										
RD-1	P.104	820+00.61		4		1																						
D-1	P.104	820+00.61											4										1				67	
		CL CONST. US-22																										
RD-2	P.105	818+81.70		4		1																						
D-2	P.105	818+81.70											4										1				67	
RD-3	P.106	829+51.62		4		1																						
D-3	P.106	829+51.62												4									1				67	
RD-4	P.106	838+51.33		4		1																						
D-4	P.106	838+51.33																4					1				67	
RD-5	P.108	861+49.69		4		1																						
D-5	P.108	861+49.69																4					1				67	
RD-6	P.109	870+49.90		4		1																						
D-6	P.109	870+49.90													4								1				67	
RD-7	P.109	875+49.10	1	54																								
D-7	P.109	875+49.10						3		0.33							54											
RD-8	P.110	876+49.61			12	1																						
D-8	P.110	876+49.61																		4	8	1				67	93	
RD-9	P.110	883+13.90		4		1																						
D-9	P.110	883+13.90																										
RD-10	P.111	889+98.65		4		1						4															67	
D-10	P.111	889+98.65																									67	
RD-11	P.111	899+04.07		4		1																					67	
D-11	P.111	899+04.07																									67	
RD-12	P.112	911+45.78		8		1																						
D-12	P.112	911+45.78																										
RD-13	P.113	920+27.37		8		1																					67	
D-13	P.113	920+27.37											4	4													67	
RD-14	P.114	926+08.40		4		1																						
D-14	P.114	926+08.40																										
RD-15	P.114	928+35.19		4		1																					67	
D-15	P.114	928+35.19																									67	
RD-16	P.115	939+97.19		4		1																					67	
D-16	P.115	939+97.19																									67	
RD-17	P.115	945+01.15		4		1																						
D-17	P.115	945+01.15																									67	
RD-18	P.116	951+45.28		4		1																						
D-18	P.116	951+45.28																									67	
RD-19	P.117	962+13.16		4		1																						
D-19	P.117	962+13.16																									67	
RD-20	P.119	987+44.53		4		1																					67	
D-20	P.119	987+44.53																									67	
		CL CONST. RAMP E																										
RD-21	P.126	0+41.78		75		1																						
D-21	P.126	0+41.78																									75	
RD-22	P.126	1+19.80		4		1																						
D-22	P.126	1+19.80																										
RD-23	P.126	3+02.89		4		1																						
D-23	P.126	3+02.89																									1	
SUBTOTALS CARRIED TO SHEET P.94			1	217	12	19	3	3		0.33	75	4	8	20	36	8	8	54	4	4	8	1	18	1	1	1	1273	93



**DRAINAGE SUBSUMMARY**

DESIGN AGENCY  
**ARCADIS**  
 222 SOUTH MAIN STREET SUITE 200  
 ARCADIS, MISSOURI 64732  
 (314) 434-1985  
 www.arcadis.com

DESIGNER  
**CRA**

REVIEWER  
**KDK 11-10-25**

PROJECT ID  
**113440**

SHEET TOTAL  
**P.93 736**

**HAS-022-15.11 PAVEMENT RECONSTRUCTION**

MODEL: Sheet\_SurvFI PAPER SIZE: 34x22 (in.) DATE: 3/13/2026 TIME: 3:08:35 PM USER: TBunlak  
 p:\arcadis-us-pw\entley.com\arcadis-us-01\Documents\01 Active Projects\30181931400\_CAD\401-Engineering\_Arcadis\Drainage\Sheets\113440\_DS008.dgn

REF NO.	SHEET NO.	STATION TO STATION	202	202	202	202	202	203	601	602	611	611	611	611	611	611	611	611	611	611	611	611	611	611	670	899		
			HEADWALL REMOVED EACH	PIPE REMOVED, 24" DIAMETER AND UNDER FT	PIPE REMOVED, OVER 24" DIAMETER FT	CATCH BASIN REMOVED EACH	INLET REMOVED EACH	EMBANKMENT CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	CONCRETE MASONRY CY	12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE B, 707.24 FT	12" CONDUIT, TYPE B, 707.33 FT	15" CONDUIT, TYPE B, 706.02 FT	15" CONDUIT, TYPE B, 707.33 FT	18" CONDUIT, TYPE B, 706.02 FT	18" CONDUIT, TYPE B, 707.33 FT	18" CONDUIT, TYPE C FT	24" CONDUIT, TYPE B, 706.02 FT	30" CONDUIT, TYPE B, 706.08 FT	30" CONDUIT, TYPE B, 706.24 FT	CATCH BASIN, NO. 4 EACH	CATCH BASIN, NO. 8 EACH	INLET, NO. 2-6, AS PER PLAN EACH	INLET, NO. 2-8, AS PER PLAN EACH	INLET, NO. 2-10, AS PER PLAN EACH	DITCH EROSION PROTECTION SY	30" DIAMETER CURED-IN-PLACE PIPE LINER FT
		CL CONST. RAMP G																										
D-24	P.130	15+90.00					2	0.21	43																			
RD-24	P.130	16+25.75		41																								
D-25	P.130	18+17.97											4															
RD-25	P.130	18+17.97		4																								
D-26	P.130	18+87.41											4															
RD-26	P.130	18+87.41		4																								
SUBTOTALS FROM THIS SHEET				49			3		2	0.21	43	4	4															
SUBTOTAL FROM SHEET P.93			1	217	12	19	3	3		0.33	75	4	8	20	36	8	8	54	4	4	8	1	18	1	1	1	1273	93
TOTALS CARRIED TO GENERAL SUMMARY			1	266	12	19	6	3	2	0.50	118	8	12	20	36	8	8	54	4	4	8	1	18	3	2	1	1273	93

**DRAINAGE SUBSUMMARY**

DESIGN AGENCY  
**ARCADIS**  
 222 SOUTH MAIN STREET SUITE 200  
 ARCADIS, MISSOURI 64742  
 (314) 434-1995  
 www.arcadis.com

DESIGNER  
**CRA**

REVIEWER  
**KDK 11-10-25**

PROJECT ID  
**113440**

SHEET TOTAL  
**P.94 | 736**

**ITEM 509, EPOXY COATED REINFORCING STEEL, AS PER PLAN**

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO CMS 709.00. THIS PROVISION APPLIES BELOW THE SEISMIC PEDESTAL.

**ITEM 510, DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT, AS PER PLAN**

DOWEL HOLES FOR #5 REINFORCING SHALL BE 11/16" DIAMETER AND A MINIMUM OF 12" DEEP UNLESS NOTED OTHERWISE. DOWEL HOLES FOR #6 REINFORCING SHALL BE 13/16" DIAMETER AND A MINIMUM OF 18" DEEP. PRIOR TO DRILLING HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AIDE OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR. THE DEPARTMENT WILL PAY FOR DOWEL HOLES AND GROUTING WITH ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN.

**ITEM 516, REFURBISHING BEARING DEVICES, AS PER PLAN:**

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO CLEAN AND PAINT THE BRIDGE PIER BEARINGS. INCLUDED SHALL BE HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (C&MS 711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 - REFURBISH BEARING DEVICES, AS PER PLAN.

**ABBREVIATIONS**

- |   |  |
|---|--|
| ABUT = ABUTMENT                                     | O/O = OUT TO OUT                         |
| ADT = AVERAGE DAILY TRAFFIC                         | ODOT = OHIO DEPARTMENT OF TRANSPORTATION |
| ADTT = AVERAGE DAILY TRUCK TRAFFIC                  | P.V.I. = POINT OF VERTICAL INTERSECTION  |
| APP = APPROACH                                      | PC = POINT OF CURVE                      |
| APPR = APPROXIMATE                                  | PEJF = PREFORMED EXPANSION JOINT FILLER  |
| BM = BENCHMARK                                      | PGL = PROFILE GRADE LINE                 |
| BOT = BOTTOM  | PI = POINT OF INTERSECTION               |
| BRG = BEARING                                       | PROP = PROPOSED                          |
| BTWN = BETWEEN                                      | PT = POINT OF TANGENT                    |
| CB = CATCH BASIN                                    | RA = REAR ABUTMENT                       |
| C/C = CENTER TO CENTER                              | RT = RIGHT                               |
| CLR = CLEAR   | SER = SERIES                             |
| CMP = CORRUGATED METAL PIPE                         | SF = SQUARE FEET                         |
| CMS = CONSTRUCTION MATERIAL SPECIFICATIONS          | SHLDR = SHOULDER                         |
| CONST = CONSTRUCTION                                | SPA = SPACES                             |
| DIA = DIAMETER                                      | STA = STATION                            |
| DND = DO NOT DISTURB                                | STD = STANDARD                           |
| EB = EASTBOUND                                      | STM = STORM                              |
| EF = EACH FACE                                      | TBR = TO BE REMOVED                      |
| ELEC = ELECTRIC                                     | TEMP = TEMPORARY                         |
| ELEV or EL = ELEVATION                              | TYP = TYPICAL                            |
| EX = EXISTING                                       | WB = WEST BOUND                          |
| EXP = EXPANSION                                     | WTR = WATER                              |
| F/F = FACE TO FACE                                  | YR = YEAR                                |
| FWD = FORWARD ABUTMENT                              |  |
| FF = FAR FACE/FILL FACE                             |  |
| GR = GUARDRAIL                                      |  |
| IR = INTERSTATE ROUTE                               |  |
| JT = JOINT  |  |
| LT = LEFT   |  |
| MAX = MAXIMUM                                       |  |
| MH = MANHOLE  |  |
| MIN = MINIMUM                                       |  |
| NB = NORTHBOUND                                     |  |
| NF = NEAR FACE                                      |  |
| N.P.C.P.P. = NON-PERFORATED CORRUGATED PLASTIC PIPE |  |

HAS-22-1717L BRIDGE SUMMARY										CALC: CMD 11-06-25	CHECK: RBB 11-07-25
PART. 02/BRO	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER	GENERAL	APP/REF SHEET NO.	
LS	201	11001	LS	LS	CLEARING AND GRUBBING, AS PER PLAN				LS	2	
LS	202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	2	
134	202	22900	134	SY	APPROACH SLAB REMOVED				134		
1,164	202	23500	1,164	SY	WEARING COURSE REMOVED			1,030	134		
LS	202	98000	LS	LS	REMOVAL MISC.: OEPA NOTIFICATION OF DEMOLITION				LS		
48	503	21100	48	CY	UNCLASSIFIED EXCAVATION	48				4	
98,806	509	10001	98,806	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	8,620		88,348	1,838	3	
8,213	509	30020	8,213	FT	NO. 4 DEFORMED GFRP REINFORCEMENT			6,737	1,476		
248	510	10001	248	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	248				3	
272	511	34444	272	CY	CLASS QC2 CONCRETE, BRIDGE DECK			272			
120	511	34448	89	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			89			
38	511	44110	38	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	38					
1,096	512	10100	1,096	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	102	336	563	95		
34	512	33000	34	SY	TYPE 2 WATERPROOFING	34					
2,772	513	20000	2,772	EACH	WELDED STUD SHEAR CONNECTORS			2772			
12	513	21000	12	EACH	TRIMMING OF BEAM END, AS PER PLAN			12		5	
731	513	21501	731	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN			731		13	
105	516	11210	105	FT	STRUCTURAL EXPANSION JOINT, INCLUDING ELASTOMERIC STRIP SEAL			105			
78	516	20010	78	SF	1" ELASTOMERIC ERECTION STRIP	78					
12	516	43301	12	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (13"x13"x3.878" BEARING WITH 13"x18" TOP LOAD PLATE, 14"x14" BOTTOM LOAD PLATE AND BEVELED HP10x42 PEDESTAL)	12				12	
12	516	45305	12	EACH	REFURBISH BEARING DEVICE, AS PER PLAN		12			3	
LS	516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LS		2	
43	518	20000	43	SY	PREFABRICATED GEOCOMPOSITE DRAIN	43					
25	518	21200	25	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	25					
62	518	39800	62	FT	4" PERFORATED CORRUGATED PLASTIC PIPE	62					
36	518	39900	36	FT	4" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	36					
68	518	40000	68	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	68					
40	518	40010	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	40					
76	519	00100	76	SF	SPECIAL - COMPOSITE FIBER WRAP SYSTEM (SEE PROPOSAL NOTE)		76				
47	519	11101	47	SY	PATCHING CONCRETE STRUCTURE, AS PER PLAN	30	17			2	
234	526	25000	234	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				234		
110	526	90010	110	FT	TYPE A INSTALLATION				110		
26	601	20001	26	SY	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	26				1, 4	
8	601	21050	8	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	8					
4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	4					
49	613	41201	49	CY	LOW STRENGTH MORTAR BACKFILL, AS PER PLAN	49				9, 11	
43	846	00110	43	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM				43		

ESTIMATED QUANTITIES AND GENERAL NOTES  
 HAS-022-15.11, BRIDGE NO. HAS-22-17.17L  
 OVER COUNTY HIGHWAY 11 (DENNISON AVENUE)

SFN 3400875 (L)  
 DESIGN AGENCY  
**ARCADIS**  
 222 SOUTH MAIN STREET, SUITE 200  
 HAWSON, OHIO 43026  
 (614) 434-6965  
 www.arcadis.com

DESIGNER	CHECKER
CAF	CMD
REVIEWER	
RBB 12-10-25	
PROJECT ID	
113440	
SUBSET	TOTAL
3	22
SHEET	TOTAL
P.494	736

**ITEM 509, EPOXY COATED REINFORCING STEEL, AS PER PLAN**

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO CMS 709.00. THIS PROVISION APPLIES BELOW THE SEISMIC PEDESTAL.

**ITEM 510, DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT, AS PER PLAN**

DOWEL HOLES FOR #5 REINFORCING SHALL BE 11/16" DIAMETER AND A MINIMUM OF 12" DEEP. DOWEL HOLES FOR #6 REINFORCING SHALL BE 13/16" DIAMETER AND A MINIMUM OF 18" DEEP. PRIOR TO DRILLING HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AIDE OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR. THE DEPARTMENT WILL PAY FOR DOWEL HOLES AND GROUTING WITH ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN.

**ABBREVIATIONS**

- |   |  |
|---|--|
| ABUT = ABUTMENT                                     | O/O = OUT TO OUT                         |
| ADT = AVERAGE DAILY TRAFFIC                         | ODOT = OHIO DEPARTMENT OF TRANSPORTATION |
| ADTT = AVERAGE DAILY TRUCK TRAFFIC                  | P.V.I. = POINT OF VERTICAL INTERSECTION  |
| APP = APPROACH                                      | PC = POINT OF CURVE                      |
| APPR = APPROXIMATE                                  | PEJF = PREFORMED EXPANSION JOINT FILLER  |
| BM = BENCHMARK                                      | PGL = PROFILE GRADE LINE                 |
| BOT = BOTTOM  | PI = POINT OF INTERSECTION               |
| BRG = BEARING                                       | PROP = PROPOSED                          |
| BTWN = BETWEEN                                      | PT = POINT OF TANGENT                    |
| CB = CATCH BASIN                                    | RA = REAR ABUTMENT                       |
| C/C = CENTER TO CENTER                              | RT = RIGHT                               |
| CLR = CLEAR   | SER = SERIES                             |
| CMP = CORRUGATED METAL PIPE                         | SF = SQUARE FEET                         |
| CMS = CONSTRUCTION MATERIAL SPECIFICATIONS          | SHLDR = SHOULDER                         |
| CONST = CONSTRUCTION                                | SPA = SPACES                             |
| DIA = DIAMETER                                      | STA = STATION                            |
| DND = DO NOT DISTURB                                | STD = STANDARD                           |
| EB = EASTBOUND                                      | STM = STORM                              |
| EF = EACH FACE                                      | TBR = TO BE REMOVED                      |
| ELEC = ELECTRIC                                     | TEMP = TEMPORARY                         |
| ELEV or EL = ELEVATION                              | TYP = TYPICAL                            |
| EX = EXISTING                                       | WB = WEST BOUND                          |
| EXP = EXPANSION                                     | WTR = WATER                              |
| F/F = FACE TO FACE                                  | YR = YEAR                                |
| FWD = FORWARD ABUTMENT                              |  |
| FF = FAR FACE/FILL FACE                             |  |
| GR = GUARDRAIL                                      |  |
| IR = INTERSTATE ROUTE                               |  |
| JT = JOINT  |  |
| LT = LEFT   |  |
| MAX = MAXIMUM                                       |  |
| MH = MANHOLE  |  |
| MIN = MINIMUM                                       |  |
| NB = NORTHBOUND                                     |  |
| NF = NEAR FACE                                      |  |
| N.P.C.P.P. = NON-PERFORATED CORRUGATED PLASTIC PIPE |  |

HAS-22-1717R BRIDGE SUMMARY										CALC: CMD 11-06-25	CHECK: RBB 11-07-25
PART. 02/BRO	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER	GENERAL	APP/REF SHEET NO.	
LS	201	11001	LS	LS	CLEARING AND GRUBBING, AS PER PLAN				LS	2	
LS	202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	2	
134	202	22900	134	SY	APPROACH SLAB REMOVED				134		
932	202	23500	932	SY	WEARING COURSE REMOVED			798	134		
LS	202	98000	LS	LS	REMOVAL MISC.: OEPA NOTIFICATION OF DEMOLITION				LS		
41	503	21100	41	CY	UNCLASSIFIED EXCAVATION	41					
79,151	509	10001	79,151	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	8,456		68,857	1,838	3	
6,679	509	30020	6,679	FT	NO. 4 DEFORMED GFRP REINFORCEMENT			5,203	1,476		
244	510	10001	244	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	244				3	
214	511	34444	214	CY	CLASS QC2 CONCRETE, BRIDGE DECK			214			
103	511	34448	72	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			72			
34	511	44110	34	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	34					
869	512	10100	869	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	101	239	434	95		
5	512	10600	5	FT	CONCRETE REPAIR BY EPOXY INJECTION	5					
34	512	33000	34	SY	TYPE 2 WATERPROOFING	34					
2,124	513	21000	2,124	EACH	WELDED STUD SHEAR CONNECTORS			2,124			
12	513	21001	12	EACH	TRIMMING OF BEAM END, AS PER PLAN			12		4	
731	513	21501	731	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN			731		14	
105	516	11210	105	FT	STRUCTURAL EXPANSION JOINT, INCLUDING ELASTOMERIC STRIP SEAL			105			
83	516	20010	83	SF	1" ELASTOMERIC ERECTION STRIP	83					
6	516	43301	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x11"x3.607" BEARING WITH 12"x13" BEVELED TOP LOAD PLATE AND 12"x13"x1 1/2" BOTTOM LOAD PLATE)	6				12	
6	516	44101	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x12"x2.648" BEARING WITH 12"x13" BEVELED TOP LOAD PLATE AND 12"x13"x2" BOTTOM LOAD PLATE)	6				12	
6	516	44101	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (16"x18"x2.668" BEARING WITH 17"x19" BEVELED LOAD PLATE)		6			13	
6	516	44101	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (14"x16"x2.064" BEARING WITH 17"x28" BEVELED LOAD PLATE)		6			13	
LS	516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	2	
43	518	20000	43	SY	PREFABRICATED GEOCOMPOSITE DRAIN	43					
28	518	21200	28	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	28					
61	518	39800	61	FT	4" PERFORATED CORRUGATED PLASTIC PIPE	61					
36	518	39900	36	FT	4" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	36					
63	518	40000	63	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	63					
45	518	40010	45	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	45					
283	519	00100	283	SF	SPECIAL - COMPOSITE FIBER WRAP SYSTEM (SEE PROPOSAL NOTE)		283				
87	519	11101	87	SY	PATCHING CONCRETE STRUCTURE, AS PER PLAN	32	55			2	
234	526	25000	234	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				234		
110	526	90010	110	FT	TYPE A INSTALLATION				110		
26	601	20001	26	SY	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	26				1, 4	
8	601	21050	8	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	8					
4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	4					
43	613	41201	43	CY	LOW STRENGTH MORTAR BACKFILL, AS PER PLAN	43				9, 11	
22	846	00110	22	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM				22		

**ESTIMATED QUANTITIES**  
**HAS-022-15.11, BRIDGE NO. HAS-22-17.17R**  
**OVER COUNTY HIGHWAY 11 (DENNISON AVENUE)**

SFN 3400905 (R)  
 DESIGNER: CMD  
 CHECKER: SMS  
 REVIEWER: RBB  
 PROJECT ID: 113440  
 SUBSET: 3  
 SHEET: P.516  
 TOTAL: 22  
 TOTAL: 736

**HAS-022-15.11 PAVEMENT RECONSTRUCTION**

MODEL: Sheet\_SurvFt\_PAPER: 34x22 (in.) DATE: 3/13/2026 TIME: 2:37:15 PM USER: chiggins  
 pw:\arcds-us-pw.bentley.com\arcds-us-01\Documents\01 Active Projects\30181931\400\_CAD\402-Engineering\_Compass\Structures\SFN\_3401898\Sheets\113440\_SFN\_3401898\_30001.dgn

**ABBREVIATIONS**

ABUT.	ABUTMENT
ADT.	AVERAGE DAILY TRAFFIC
ADTT.	AVERAGE DAILY TRUCK TRAFFIC
APPR.	APPROACH
BM	BENCHMARK
BOT.	BOTTOM
BRG.	BEARING
BRGS.	BEARINGS
¢	CENTERLINE
C/C	CENTER TO CENTER
C.J.	CONSTRUCTION JOINT
CLR.	CLEARANCE OR CLEAR
CMS	CONSTRUCTION MATERIAL SPECIFICATIONS
CONST.	CONSTRUCTION
∅	DIAMETER
DIA.	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DND	DO NOT DISTURB
DWG.	DRAWING
DWGS.	DRAWINGS
E.F.	EACH FACE
EL.	ELEVATION
EQ.	EQUAL
EX.	EXISTING
EXP.	EXPANSION
F.A.	FORWARD ABUTMENT
F.F.	FAR FACE
FIX.	FIXED
FT.	FOOT/FEET
FTG.	FOOTING
F.S.	FIELD SPLICE
FWD.	FORWARD
INT.	INTEGRAL
INV.	INVERT
JT.	JOINT
LL	LIVE LOAD
LT.	LEFT
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.F.	NEAR FACE
NO.	NUMBER
N.P.C.P.P.	NON-PERFORATED CORRUGATED POLYETHYLENE PIPE
O/O	OUT TO OUT
P.C.P.P.	PERFORATED CORRUGATED POLYETHYLENE PIPE
P.E.J.F.	PREFORMED EXPANSION JOINT FILLER
R.A.	REAR ABUTMENT
R.C.P.	ROCK CHANNEL PROTECTION
RT.	RIGHT
R/W	RIGHT OF WAY
SCD	STANDARD CONSTRUCTION DRAWING
SHLDR	SHOULDER
SPA.	SPACING/SPACES
S.R.	STATE ROUTE
STA.	STATION
STD.	STANDARD
TEMP.	TEMPORARY
TYP.	TYPICAL
VAR.	VARIABLE
VC	VERTICAL CLEARANCE
VERT.	VERTICAL

ESTIMATED QUANTITIES										
PART. 02/BRO	ITEM	EXT.	QUANTITY	UNIT	DESCRIPTION	ABUTMENT	PIER	SUPER-STRUCTURE	GENERAL	REF. SHEET
LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	2 / 24
172	202	22900	172	SY	APPROACH SLAB REMOVED				172	
1	202	98100	1	EACH	REMOVAL MISC.: OEPA NOTIFICATION OF DEMOLITION				1	
277	503	21100	277	CY	UNCLASSIFIED EXCAVATION	277				
28,029	509	10000	28,029	LB	EPOXY COATED STEEL REINFORCEMENT	8,722		19,307		
2	511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	2				
87	511	34444	87	CY	CLASS QC2 CONCRETE, BRIDGE DECK			87		
17	511	34448	17	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			17		
119	511	43510	119	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	119				
49	512	10050	49	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	9		40		
288	512	10100	288	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			288		
580	512	10300	580	SY	SEALING OF CONCRETE BRIDGE DECKS WITH HMWM RESIN			580		
7	512	33000	7	SY	TYPE 2 WATERPROOFING	7				
139	512	74000	139	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES			139		2 / 24
21,900	513	10221	21,900	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN			21,900		
29,000	513	10220	29,000	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1			29,000		
672	513	20000	672	EACH	WELDED STUD SHEAR CONNECTORS			672		
812	513	95030	812	EACH	STRUCTURAL STEEL, MISC.: FIELD DRILLING HOLES			812		
787	514	00050	787	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			787		
910	514	00056	910	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			910		
1,741	514	00060	1,741	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			1,741		
1,741	514	00066	1,741	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			1,741		
1	514	00504	1	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			1		
1	514	10000	1	EACH	FINAL INSPECTION REPAIR			1		
128	516	13600	128	SF	1" PREFORMED EXPANSION JOINT FILLER			16	112	
0										
92	516	13900	92	SF	2" PREFORMED EXPANSION JOINT FILLER	92				
137	516	14020	137	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	137				11 / 24
14	516	44101	14	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN			14		2 / 24
LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	
98	518	21200	98	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	98				
132	518	40000	132	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	132				
37	518	40010	37	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	37				
1	524	94702	1	FT	DRILLED SHAFTS, 36" DIAMETER, ABOVE BEDROCK	1				
129	524	94704	129	FT	DRILLED SHAFTS, 36" DIAMETER, INTO BEDROCK	129				
306	526	25000	306	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				306	
106	526	90010	106	FT	TYPE A INSTALLATION				106	
19	601	21000	19	SY	CONCRETE SLOPE PROTECTION				19	
20	613	41200	20	CY	LOW STRENGTH MORTAR BACKFILL	20				
2	894	10000	2	EACH	THERMAL INTEGRITY PROFILING (TIP) TEST	2				

**ESTIMATED QUANTITIES**  
 BRIDGE NO. HAS-00250-19.120  
 OVER COLUMBUS & OHIO RIVER RR SPUR

SFN  
 3401898  
 DESIGN AGENCY



**COMPASS**  
 INFRASTRUCTURE GROUP

DESIGNER: CDH | CHECKER: CCJ  
 REVIEWER: GLG 12/10/25  
 PROJECT ID: 113440  
 SUBSET: 3 | TOTAL: 24  
 SHEET: P.626 | TOTAL: 736