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ESTIMATED QUANTITIES

CALC. BY: MPB 11/22/17
 CHK'D BY: SKK 4/24/18
 AS PER PLAN

ITEM	TOTAL	UNIT	DESCRIPTION	CALC. BY: MPB 11/22/17			STR. SHT. NO.
				SUPER	ABUT'S	GENERAL	
202	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN			LS	
203	114	CY	EXCAVATION		114		
203	131	CY	GRANULAR MATERIAL, TYPE B		131		
503	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN		LS		2, 9 - 12
503	988	CY	UNCLASSIFIED EXCAVATION		988		
503	13	CY	ROCK EXCAVATION		13		
509	93,192	LB	EPOXY COATED REINFORCING STEEL	25,482	51,571	16,139	
511	102	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	102			
511	252	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING		252		
511	152	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING		152		
512	246	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	78	168		
512	59	SY	TYPE 2 WATERPROOFING		59		
513	124,417	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN	124,417			2, 3
513	1,905	EACH	WELDED STUD SHEAR CONNECTORS	1,905			
516	75	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			75	
516	29	SF	1" PREFORMED EXPANSION JOINT FILLER		29		
516	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x20"x2.65")		5		21
516	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x20"x3.80")		5		21
517	182	FT	RAILING (TWIN STEEL TUBE)	182			
518	90	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		90		
518	58	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		58		
518	26	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		26		
526	63	SY	REINFORCED CONCRETE APPROACH SLABS (T=12"), AS PER PLAN			63	31
526	101	SY	REINFORCED CONCRETE APPROACH SLABS (T=17"), AS PER PLAN			101	29, 30
526	69	FT	TYPE A INSTALLATION, AS PER PLAN			69	29, 30, 31
601	186	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC		186		
846	28	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM			28	

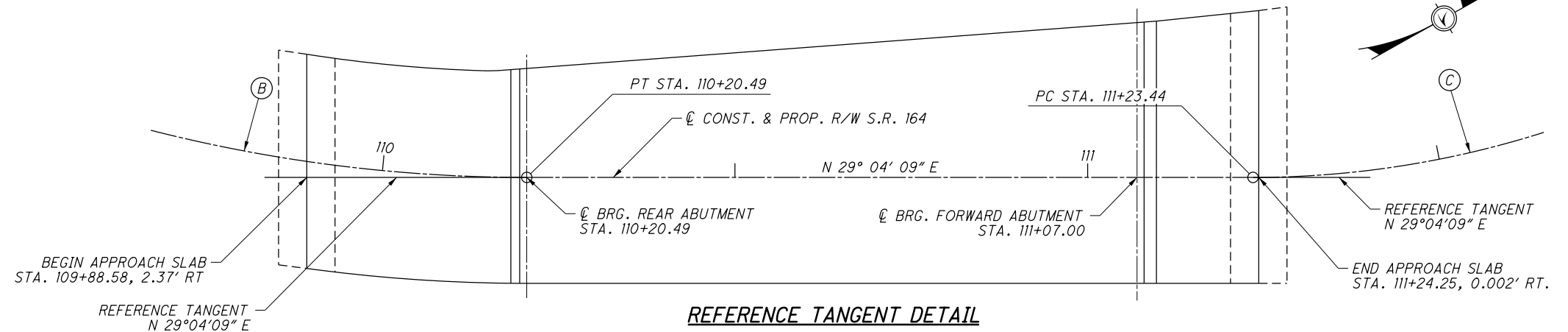
QUANTITIES CARRIED TO GENERAL SUMMARY

(B) PROP. CONST. SR 164 CURVE DATA

P.I. STA. 109+93.71
 $\Delta = 14^\circ 15' 57" (LT)$
 $D_c = 26^\circ 30' 00"$
 $R = 216.21'$
 $T = 27.06'$
 $L = 53.83'$
 $E = 1.69'$
 $C = 53.69'$
 $C.B. = N 36^\circ 12' 08" E$
 $e_{max} = NC, NDC = 0.080$
 PC STA. 109+66.66
 PT STA. 110+20.49

(C) PROP. CONST. SR 164 CURVE DATA

P.I. STA. 111+87.35
 $\Delta = 50^\circ 12' 19" (LT)$
 $D_c = 42^\circ 00' 00"$
 $R = 136.42'$
 $T = 63.91'$
 $L = 119.54'$
 $E = 14.23'$
 $C = 115.75'$
 $C.B. = N 3^\circ 58' 00" E$
 $e_{max} = NC, NDC = 0.080$
 PC STA. 111+23.44
 PT STA. 112+42.97



REFERENCE TANGENT DETAIL

DESIGN AGENCY
ARCADIS
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 222 South Main Street, Suite 300 Akron, Ohio 44308
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ESTIMATED QUANTITIES
 BRIDGE NO. JEF-164-0525
 STATE ROUTE 164 OVER YELLOW CREEK

JEF-164-5.63
 PID No. 96440

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 48
 87