BILL OF MATERIALS

SQUARE STRUCTURES - ONE SLAB

BRIDGE APPROACH WIDTH	EPOXY COATED REINFORCING BARS				TOTAL MASS, kg	REINFORCED CONCRETE BRIDGE APPROACH AREA m^2
	LONGIT. BARS		TRANSV. BARS			
	NO.	SIZE x LGTH. OR MARK	NO.	SIZE x LGTH.		
7200	24	1391	21	#13 x 7100	877	44.6
	48	1691	11	#16 x 7100		
7600	26	1391	21	#13 x 7500	933	47.1
	51	1691	11	#16 x 7500		
7800	26	1391	21	#13 x 7700	947	48.4
	52	1691	11	#16 x 7700		
8200	28	1391	21	#13 x 8100	1006	50.8
	55	1691	11	#16 x 8100		
8800	30	1391	21	#13 x 8700	1080	54.6
	59	1691	11	#16 x 8700		
9400	32	1391	21	#13 x 9300	1153	58.3
	63	1691	11	#16 x 9300		
10000	34	1391	21	#13 x 9900	1226	62.0
	67	1691	11	#16 x 9900		
10600	36	1391	21	#13 x 10500	1300	65.7
	71	1691	11	#16 x 10500		
11200	38	1391	21	#13 x 11100	1373	69.4
	75	1691	11	#16 x 11100		
11800	40	1391	21	#13 x 11700	1447	73.2
	79	1691	11	#16 x 11700		
12100	41	1391	21	#13 x 12000	1483	75.0
	81	1691	11	#16 x 12000		
12400	42	1391	42	#13 x 6400 *	1542	76.9
	83	1691	22	#16 x 6500 **		
13600	46	1391	42	#13 x 7000 *	1659	84.3
	91	1691	22	#16 x 7100 **		

* Bars lapped 480 at centerline of roadway. ** Bars lapped 610 at centerline of roadway.

NOTES

1. The Bill of Materials shall be used to determine the bar lengths, total mass of steel, and bridge approach area for square structures.

2. For details, see Standard Drawing 609-RCBA-03.

All Dimension are in mm unless otherwise specfied

INDIANA DEPARTMENT OF TRANSPORTATION

REINFORCED CONCRETE BRIDGE APPROACH

MARCH 2004

STANDARD DRAWING NO. 609-RCBA-05

RICHARD L. VanCLEAVE REGISTERED No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 3-01-04
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 3-01-04
CHIEF HIGHWAY ENGINEER DATE