BILL OF MATERIALS

SQUARE STRUCTURES - ONE SLAB

BRIDGE APPROACH WIDTH	EPOXY COATED REINFORCING BARS				TOTAL WEIGHT LBS.	REINFORCED CONCRETE BRIDGE APPROACH AREA SQ. YDS.
	LONGIT. BARS		TRANSV. BARS			
	NO.	SIZE x LGTH. OR MARK	NO.	SIZE x LGTH.		
24'-0	24	491	21	#4 x 23'-6	1958	54.7
	8	591	11	#5 x 23'-6		
25'-0	26	491	21	#4 x 24'-6	2076	56.9
	51	591	11	#5 x 24'-6		
25'-6	26	491	21	#4 x 25'-0	2110	58.1
	52	591	11	#5 x 25'-0		
27'-0	28	491	21	#4 x 26'-6	2240	61.5
	55	591	11	#5 x 26'-6		
29'-0	30	491	21	#4 x 28'-6	2404	66.1
	59	591	11	#5 x 28'-6		
31'-0	32	491	21	#4 x 30'-6	2568	70.6
	63	591	11	#5 x 30'-6		
33'-0	34	491	21	#4 x 32'-6	2733	75.2
	67	591	11	#5 x 32'-6		
35'-0	36	491	21	#4 x 34'-6	2897	79.7
	71	591	11	#5 x 34'-6		
37'-0	38	491	21	#4 x 36'-6	3061	84.3
	75	591	11	#5 x 36'-6		
39'-0	40	491	21	#4 x 38'-6	3225	88.8
	79	591	11	#5 x 38'-6		
40'-0	41	491	21	#4 x 39'-6	3307	91.1
	81	591	11	#5 x 39'-6		
42'-0	42	491	42	#4 x 21'-9 *	3466	95.7
	83	591	22	#5 x 21'-9 **		
44'-0	46	491	42	#4 x 22'-9 *	3744	100.2
	91	591	22	#5 x 22'-9 **		

* Bars lapped 1'-7 at centerline of roadway. ** Bars lapped 2'-0 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 E 609-RCBA-03.

INDIANA DEPARTMENT OF TRANSPORTATION

REINFORCED CONCRETE BRIDGE APPROACH

MARCH 2004

STANDARD DRAWING NO. E 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