

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 100' BRIDGE

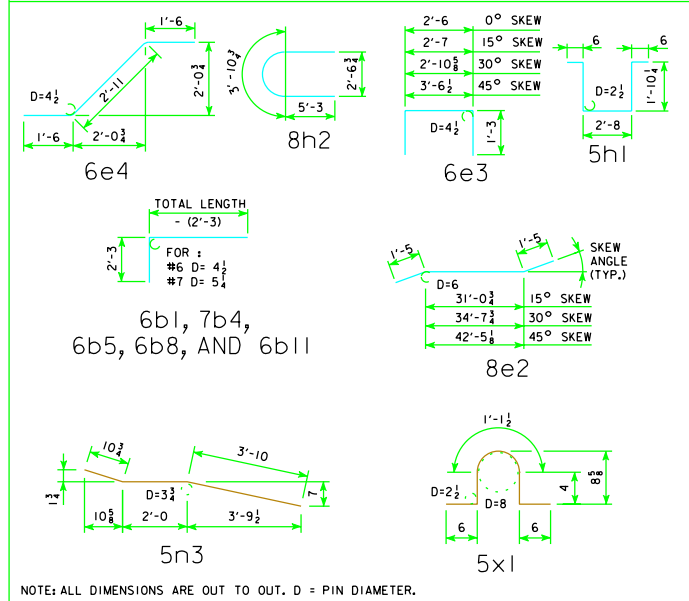
LOCATION	SKEW	SHAPE	BAR NO.	0°		15°		30°		45°					
				LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	
SLAB LONGITUDINAL BOTTOM			8a1	39	21'-3	2213	39	21'-3	2213	39	21'-3	2213	39	21'-3	2213
SLAB LONGITUDINAL BOTTOM			8a2	39	31'-5	3272	39	31'-5	3272	39	31'-5	3272	39	31'-5	3272
SLAB LONGITUDINAL BOTTOM			8a3	39	29'-6	3072	39	29'-6	3072	39	29'-6	3072	39	29'-6	3072
SLAB LONGITUDINAL BOTTOM			9a4	40	27'-6	3740	40	27'-6	3740	40	27'-6	3740	40	27'-6	3740
SLAB LONGITUDINAL BOTTOM			9a5	20	29'-6	2006	20	29'-6	2006	20	29'-6	2006	20	29'-6	2006
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a6	8	35'-9	764	8	35'-9	764	8	35'-9	764	8	35'-9	764
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a7	4	34'-8	371	4	34'-8	371	4	34'-8	371	4	34'-8	371
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a8	8	24'-0	513	8	24'-0	513	8	24'-0	513	8	24'-0	513
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	4	20'-6	219	4	20'-6	219	4	20'-6	219	4	20'-6	219
SLAB LONGITUDINAL TOP			6b1	39	6'-9	396	39	6'-9	396	39	6'-9	396	39	6'-9	396
SLAB LONGITUDINAL TOP			10b2	39	24'-9	4154	39	24'-9	4154	39	24'-9	4154	39	24'-9	4154
SLAB LONGITUDINAL TOP			10b3	39	25'-6	4280	39	25'-6	4280	39	25'-6	4280	39	25'-6	4280
SLAB LONGITUDINAL TOP			7b4	39	16'-8	1329	39	16'-8	1329	39	16'-8	1329	39	16'-8	1329
SLAB LONGITUDINAL TOP			6b5	40	13'-6	812	40	13'-6	812	40	13'-6	812	40	13'-6	812
SLAB LONGITUDINAL TOP			9b6	40	21'-3	2890	40	21'-3	2890	40	21'-3	2890	40	21'-3	2890
SLAB LONGITUDINAL TOP			6b7	20	27'-6	827	20	27'-6	827	20	27'-6	827	20	27'-6	827
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	25'-8	309	8	25'-8	309	8	25'-8	309	8	25'-8	309
SLAB LONGITUDINAL TOP, AT RAIL			9b9	8	22'-0	599	8	22'-0	599	8	22'-0	599	8	22'-0	599
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	21'-4	129	4	21'-4	129	4	21'-4	129	4	21'-4	129
SLAB LONGITUDINAL TOP, AT RAIL			6b11	8	27'-11	336	8	27'-11	336	8	27'-11	336	8	27'-11	336
SLAB LONGITUDINAL TOP, AT RAIL			10b12	8	17'-0	586	8	17'-0	586	8	17'-0	586	8	17'-0	586
SLAB TRANSVERSE, BOTTOM			6c1	97	32'-10	4784	97	34'-0	4954	84	32'-10	4143	70	32'-10	3453
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	30	VARIES	797	56	VARIES	1486	
SLAB TRANSVERSE, TOP			5d1	97	32'-10	3322	97	34'-0	3440	84	32'-10	2877	70	32'-10	2398
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	30	VARIES	553	56	VARIES	1032	
SLAB, TRANSVERSE AT ABUTMENT			8e1	18	32'-10	1578	-	-	-	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	18	33'-11	1631	18	37'-6	1803	18	45'-4	2179
SLAB, HAIRPINS, AT ABUTMENT			6e3	72	5'-0	541	72	5'-1	550	72	5'-5	586	72	6'-1	658
SLAB, DIAGONALS, AT ABUTMENT			6e4	72	5'-11	640	72	5'-11	640	72	5'-11	640	72	5'-11	640
PIER CAP HOOPS			5h1	48	7'-5	372	48	7'-5	372	64	7'-5	496	64	7'-5	496
PIER CAP ENDS			8h2	4	14'-5	154	4	14'-5	154	4	14'-5	154	4	14'-5	154
PIER CAP, BOTTOM LONGITUDINAL			8h3	8	29'-10	638	8	30'-11	661	8	34'-5	736	8	42'-2	901
PIER CAP, TOP LONGITUDINAL			8h4	4	32'-10	351	4	34'-0	364	4	37'-11	405	4	46'-6	497
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	192	8'-6	1703	192	8'-6	1703	192	8'-6	1703	190	8'-6	1685
WING, VERTICAL			5m1	40	4'-5	185	40	4'-5	185	40	4'-5	185	40	4'-5	185
WING, HORIZONTAL BACK FACE			5n1	24	6'-8	167	24	6'-8	167	24	6'-8	167	24	6'-8	167
WING, HORIZONTAL TRAFFIC FACE			5n3	24	6'-9	169	24	6'-9	169	24	6'-9	169	24	6'-9	169
PAVING BLOCK LIFTING HOOPS			5x1	10	2'-10	30	10	2'-10	30	10	2'-10	30	10	2'-10	30
SUB TOTAL - LBS.						47,451		47,837		48,261		48,947			
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06						6461		6461		6461		6461			
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06						6794		6794		6794		6794			
TOTAL - LBS.						53,912		54,298		54,722		55,408			
						WITH MONOLITHIC PIER CAP		WITH OPEN RAIL		54,245		55,055			
TOTAL - LBS.						52,397		52,747		52,931		53,360			
						WITH NON-MONOLITHIC PIER CAP		WITH OPEN RAIL		52,730		53,080		53,264	53,693

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 100' BRIDGE

ITEM	SKEW	WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP			
		0°	15°	30°	45°	0°	15°	30°	45°
WITH STRUCTURAL CONCRETE (BRIDGE)	C.Y.	205.6	206.4	209.1	215.0	201.1	201.6	203.9	208.6
BARRIER RAIL REINFORCING STEEL	LBS.	53,912	54,298	54,722	55,408	52,397	52,747	52,931	53,360
CONCRETE BARRIER OR OPEN RAIL	LIN. FT.	222.0	222.2	222.9	224.5	222.0	222.2	222.9	224.5
WITH STRUCTURAL CONCRETE (BRIDGE)	C.Y.	205.4	206.2	208.9	214.8	200.8	201.4	203.7	208.4
OPEN RAIL REINFORCING STEEL	LBS.	54,245	54,631	55,055	55,741	52,730	53,080	53,264	53,693

* INCLUDES 4 WINGS @ 0.68 C.Y. EACH AND 2 TEMPORARY PAVING BLOCKS; EXCLUDES RAIL CONCRETE.

BENT BAR DETAILS



07-09 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division
		STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006
		SUPERSTRUCTURE DETAILS 100'-0 BRIDGE NON-EPOXY COATED REINFORCING

REVISED 07-09 - OPEN RAIL REINF. QTY'S. CHANGED WHICH CHANGED TOTAL REINF. QTY'S.