

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 140' BRIDGE

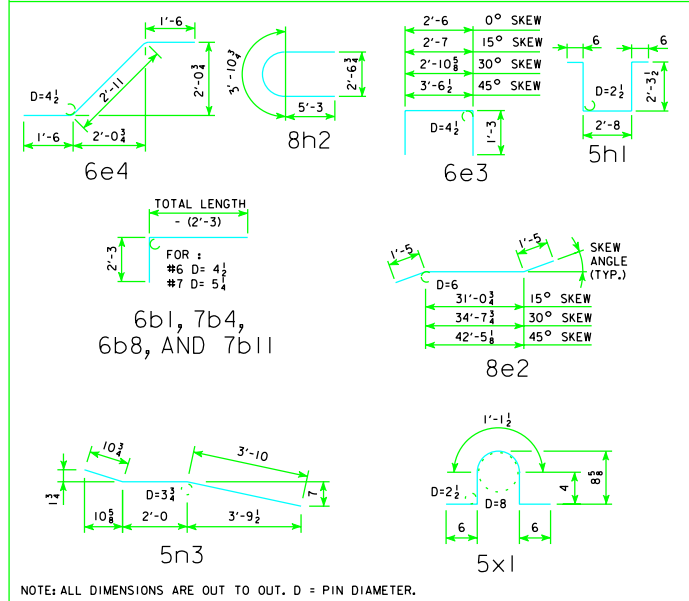
LOCATION	SKEW	SHAPE	BAR NO.	0°		15°		30°		45°		
				LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.
SLAB LONGITUDINAL BOTTOM			9a1	39	29'-3	3879	39	29'-3	3879	39	29'-3	3879
SLAB LONGITUDINAL BOTTOM			10a2	39	45'-4	7608	39	45'-4	7608	39	45'-4	7608
SLAB LONGITUDINAL BOTTOM			9a3	39	41'-3	5470	39	41'-3	5470	39	41'-3	5470
SLAB LONGITUDINAL BOTTOM			10a4	40	33'-9	5810	40	33'-9	5810	40	33'-9	5810
SLAB LONGITUDINAL BOTTOM			9a5	20	40'-6	2754	20	40'-6	2754	20	40'-6	2754
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	39'-10	1084	8	39'-10	1084	8	39'-10	1084
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a7	8	13'-0	354	8	13'-0	354	8	13'-0	354
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a8	4	49'-2	669	4	49'-2	669	4	49'-2	669
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a9	8	33'-0	898	8	33'-0	898	8	33'-0	898
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a10	4	29'-8	511	4	29'-8	511	4	29'-8	511
SLAB LONGITUDINAL TOP			6b1	39	7'-6	440	39	7'-6	440	39	7'-6	440
SLAB LONGITUDINAL TOP			11b2	39	23'-6	4870	39	23'-6	4870	39	23'-6	4870
SLAB LONGITUDINAL TOP			11b3	39	29'-3	6061	39	29'-3	6061	39	29'-3	6061
SLAB LONGITUDINAL TOP			7b4	39	25'-11	2066	39	25'-11	2066	39	25'-11	2066
SLAB LONGITUDINAL TOP			11b5	40	26'-6	5632	40	26'-6	5632	40	26'-6	5632
SLAB LONGITUDINAL TOP			6b6	20	36'-0	1082	20	36'-0	1082	20	36'-0	1082
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	33'-5	402	8	33'-5	402	8	33'-5	402
SLAB LONGITUDINAL TOP, AT RAIL			11b9	8	31'-6	1339	8	31'-6	1339	8	31'-6	1339
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	26'-10	162	4	26'-10	162	4	26'-10	162
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	38'-8	633	8	38'-8	633	8	38'-8	633
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	21'-9	925	8	21'-9	925	8	21'-9	925
SLAB TRANSVERSE, BOTTOM			6c1	137	32'-10	6757	137	34'-0	6997	124	32'-10	6116
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	30	VARIABLES	797	56
SLAB TRANSVERSE, TOP			5d1	137	32'-10	4692	137	34'-0	4859	124	32'-10	4247
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	30	VARIABLES	553	56
SLAB, TRANSVERSE AT ABUTMENT			8e1	18	32'-10	1578	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	18	33'-11	1631	18	37'-6	1803
SLAB, HAIRPINS, AT ABUTMENT			6e3	72	5'-0	541	72	5'-1	550	72	5'-5	586
SLAB, DIAGONALS, AT ABUTMENT			6e4	72	5'-11	640	72	5'-11	640	72	5'-11	640
PIER CAP HOOPS			5h1	44	8'-3	379	44	8'-3	379	44	8'-3	379
PIER CAP ENDS			8h2	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
PIER CAP, TOP LONGITUDINAL			8h4	4	32'-10	351	4	34'-0	364	4	37'-11	405
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	272	8'-6	2412	272	8'-6	2412	272	8'-6	2412
WING, VERTICAL			5m1	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
WING, HORIZONTAL TRAFFIC FACE			5n3	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
SUB TOTAL - LBS.						71,342		71,847		72,028		72,901
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06								8602		8602		8602
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06						9057		9057		9057		9057
TOTAL - LBS.						79,944		80,449		80,630		81,503
						WITH MONOLITHIC PIER CAP		80,399		81,085		81,958
TOTAL - LBS.						78,422		78,891		78,956		79,383
						WITH NON-MONOLITHIC PIER CAP		78,877		79,411		79,838
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED												

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 140' 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.	347.4	348.1	350.7	356.2	342.8	343.4	345.5	349.8
BARRIER RAIL REINFORCING STEEL	LBS.	79,944	80,449	80,630	81,503	78,422	78,891	78,956	79,383
CONCRETE BARRIER OR OPEN RAIL	LIN. FT.	302.0	302.2	302.9	304.5	302.0	302.2	302.9	304.5
WITH STRUCTURAL CONCRETE (BRIDGE)	C.Y.	347.2	347.9	350.5	355.9	342.6	343.1	345.2	349.5
OPEN RAIL REINFORCING STEEL	LBS.	80,399	80,904	81,085	81,958	78,877	79,346	79,411	79,838

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

BENT BAR DETAILS



07-09 LATEST REVISION DATE	M. C. McQuinn APPROVED BY BRIDGE ENGINEER	<p>Iowa Department of Transportation Highway Division</p>
		STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006
		SUPERSTRUCTURE DETAILS 140'-0 BRIDGE
		J30-17B-06
		NON-EPOXY COATED REINFORCING

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