

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 150' BRIDGE

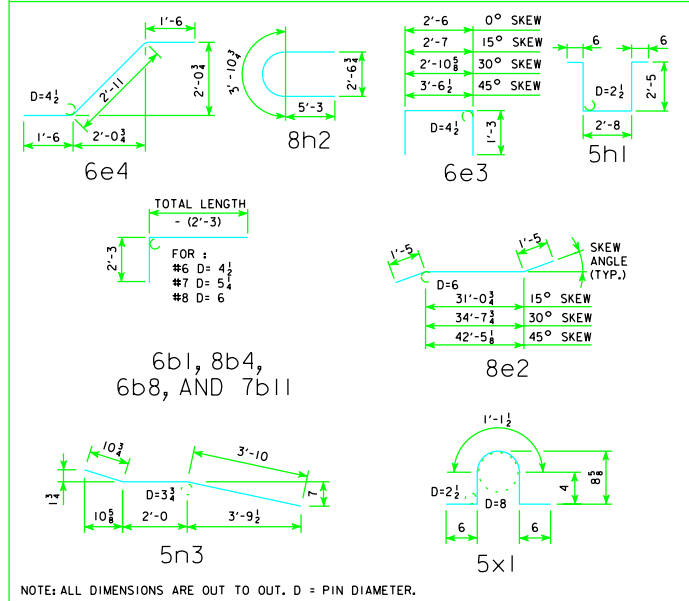
LOCATION	SKEW	SHAPE	0°				15°				30°				45°			
			NO.	LENGTH	WEIGHT		NO.	LENGTH	WEIGHT		NO.	LENGTH	WEIGHT		NO.	LENGTH	WEIGHT	
SLAB LONGITUDINAL BOTTOM		10a1	39	31'-3	5245	39	31'-3	5245	39	31'-3	5245	39	31'-3	5245	39	31'-3	5245	
SLAB LONGITUDINAL BOTTOM		10a2	39	48'-4	8112	39	48'-4	8112	39	48'-4	8112	39	48'-4	8112	39	48'-4	8112	
SLAB LONGITUDINAL BOTTOM		10a3	39	45'-4	7608	39	45'-4	7608	39	45'-4	7608	39	45'-4	7608	39	45'-4	7608	
SLAB LONGITUDINAL BOTTOM		9a4	40	35'-0	4760	40	35'-0	4760	40	35'-0	4760	40	35'-0	4760	40	35'-0	4760	
SLAB LONGITUDINAL BOTTOM		9a5	20	42'-6	2890	20	42'-6	2890	20	42'-6	2890	20	42'-6	2890	20	42'-6	2890	
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a6	8	42'-10	1166	8	42'-10	1166	8	42'-10	1166	8	42'-10	1166	8	42'-10	1166	
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a7	8	13'-0	354	8	13'-0	354	8	13'-0	354	8	13'-0	354	8	13'-0	354	
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a8	4	53'-2	724	4	53'-2	724	4	53'-2	724	4	53'-2	724	4	53'-2	724	
SLAB LONGITUDINAL BOTTOM, AT RAIL		10a9	8	36'-0	1240	8	36'-0	1240	8	36'-0	1240	8	36'-0	1240	8	36'-0	1240	
SLAB LONGITUDINAL BOTTOM, AT RAIL		10a10	4	32'-0	551	4	32'-0	551	4	32'-0	551	4	32'-0	551	4	32'-0	551	
SLAB LONGITUDINAL TOP		6b1	39	7'-6	440	39	7'-6	440	39	7'-6	440	39	7'-6	440	39	7'-6	440	
SLAB LONGITUDINAL TOP		11b2	39	30'-3	6269	39	30'-3	6269	39	30'-3	6269	39	30'-3	6269	39	30'-3	6269	
SLAB LONGITUDINAL TOP		11b3	39	26'-0	5388	39	26'-0	5388	39	26'-0	5388	39	26'-0	5388	39	26'-0	5388	
SLAB LONGITUDINAL TOP		8b4	39	33'-4	3471	39	33'-4	3471	39	33'-4	3471	39	33'-4	3471	39	33'-4	3471	
SLAB LONGITUDINAL TOP		11b5	40	27'-6	5845	40	27'-6	5845	40	27'-6	5845	40	27'-6	5845	40	27'-6	5845	
SLAB LONGITUDINAL TOP		6b6	20	39'-0	1172	20	39'-0	1172	20	39'-0	1172	20	39'-0	1172	20	39'-0	1172	
SLAB LONGITUDINAL TOP, AT RAIL		6b8	8	35'-8	429	8	35'-8	429	8	35'-8	429	8	35'-8	429	8	35'-8	429	
SLAB LONGITUDINAL TOP, AT RAIL		11b9	8	33'-0	1403	8	33'-0	1403	8	33'-0	1403	8	33'-0	1403	8	33'-0	1403	
SLAB LONGITUDINAL TOP, AT RAIL		6b10	4	29'-4	177	4	29'-4	177	4	29'-4	177	4	29'-4	177	4	29'-4	177	
SLAB LONGITUDINAL TOP, AT RAIL		7b11	8	41'-2	674	8	41'-2	674	8	41'-2	674	8	41'-2	674	8	41'-2	674	
SLAB LONGITUDINAL TOP, AT RAIL		11b12	8	23'-0	978	8	23'-0	978	8	23'-0	978	8	23'-0	978	8	23'-0	978	
SLAB TRANSVERSE, BOTTOM		6c1	147	32'-10	7250	147	34'-0	7507	134	32'-10	6609	120	32'-10	5918				
SLAB TRANSVERSE ENDS, BOTTOM		6c2	-	-	-	-	-	-	30	VARIES	797	56	VARIES	1486				
SLAB TRANSVERSE, TOP		5d1	147	32'-10	5035	147	34'-0	5213	134	32'-10	4589	120	32'-10	4110				
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	44	8'-6	391	44	8'-6	391	44	8'-6	391	44	8'-6	391	66	8'-6	586	
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	292	8'-6	2589	292	8'-6	2589	292	8'-6	2589	290	8'-6	2571				
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.					78,614			79,147			79,299			80,179				
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06					9161			9161			9161			9161				
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06					9605			9605			9605			9605				
TOTAL - LBS.					87,775			88,308			88,460			89,340				
WITH MONOLITHIC PIER CAP					88,219			88,752			88,904			89,784				
TOTAL - LBS.					86,241			86,738			86,774			87,202				
WITH NON-MONOLITHIC PIER CAP					86,685			87,182			87,218			87,646				
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED					86,685			87,182			87,218			87,646				

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 150' 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.	393.1	393.8	396.3	401.6	388.5	389.0	391.0	395.2
BARRIER RAIL REINFORCING STEEL	LBS.	87,775	88,308	88,460	89,340	86,241	86,738	86,774	87,202
CONCRETE BARRIER OR OPEN RAIL	LIN. FT.	322.0	322.2	322.9	324.5	322.0	322.2	322.9	324.5
WITH STRUCTURAL CONCRETE (BRIDGE)	C.Y.	392.8	393.5	396.0	401.3	388.2	388.7	390.8	394.9
OPEN RAIL REINFORCING STEEL	LBS.	88,219	88,752	88,904	89,784	86,685	87,182	87,218	87,646

* 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 150'-0 BRIDGE
NON-EPOXY COATED REINFORCING		J30-19B-06

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