BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 130' BRIDGE

LOCATION \ SKEW	SHAPE	BAR	0° NO.	0° LENGTH	0° WEIGHT	15° NO.	15° LENGTH	15° WEIGHT	30° NO.	30° LENGTH	30° WEIGHT	45° NO.	45° LENGTH	45° WEIGHT
SLAB LONGITUDINAL BOTTOM		9a1	39	28'-9	3813	39	28'-9	3813	39	28'-9	3813	39	28'-9	3813
SLAB LONGITUDINAL BOTTOM		9a2	39	44'-6	5901	39	44'-6	5901	39	44'-6	5901	39	44'-6	5901
SLAB LONGITUDINAL BOTTOM		9a3	39	41'-3	5470	39	41'-3	5470	39	41'-3	5470	39	41'-3	5470
SLAB LONGITUDINAL BOTTOM		9a4	40	32'-9	4454	40	32'-9	4454	40	32'-9	4454	40	32'-9	4454
SLAB LONGITUDINAL BOTTOM		10a5	20	41'-0	3529	20	41'-0	3529	20	41'-0	3529	20	41'-0	3529
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a6	8	38'-7	1050	8	38'-7	1050	8	38'-7	1050	8	38'-7	1050
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a7	8	13'-0	354	8	13'-0	354	8	13'-0	354	8	13'-0	354
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a8	4	48'-8	662	4	48'-8	662	4	48'-8	662	4	48'-8	662
SLAB LONGITUDINAL BOTTOM, AT RAIL		8a9	8	31'-3	668	8	31'-3	668	8	31'-3	668	8	31'-3	668
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a10	4	29'-0	395	4	29'-0	395	4	29'-0	395	4	29'-0	395
SLAB LONGITUDINAL TOP		6b1	39	7'-9	454	39	7'-9	454	39	7'-9	454	39	7'-9	454
SLAB LONGITUDINAL TOP		11b2	39	28'-9	5958	39	28'-9	5958	39	28'-9	5958	39	28'-9	5958
SLAB LONGITUDINAL TOP		11b3	39	30'-6	6320	39	30'-6	6320	39	30'-6	6320	39	30'-6	6320
SLAB LONGITUDINAL TOP		7b4	39	23'-9	1894	39	23'-9	1894	39	23'-9	1894	39	23'-9	1894
SLAB LONGITUDINAL TOP		10b5	40	25'-6	4390	40	25'-6	4390	40	25'-6	4390	40	25'-6	4390
SLAB LONGITUDINAL TOP		6b6	20	34'-4	1032	20	34'-4	1032	20	34'-4	1032	20	34'-4	1032
SLAB LONGITUDINAL TOP, AT RAIL		6b8	8	30'-3	364	8	30'-3	364	8	30'-3	364	8	30'-3	364
SLAB LONGITUDINAL TOP, AT RAIL		11b9	8	32'-9	1393	8	32'-9	1393	8	32'-9	1393	8	32'-9	1393
SLAB LONGITUDINAL TOP, AT RAIL		6b10	4	23'-0	139	4	23'-0	139	4	23'-0	139	4	23'-0	139
SLAB LONGITUDINAL TOP, AT RAIL		7b11	8	35'-6	581	8	35'-6	581	8	35'-6	581	8	35'-6	581
SLAB LONGITUDINAL TOP, AT RAIL		11b12	8	23'-9	1010	8	23'-9	1010	8	23'-9	1010	8	23'-9	1010
SLAB TRANSVERSE, BOTTOM		6c1	127	32'-10	6264	127	34'-0	6486	114	32'-10	5622	100	32'-10	4932
SLAB TRANSVERSE ENDS, BOTTOM		6c2	-	-	-	-	-	-	30	VARIES	797	56	VARIES	1486
SLAB TRANSVERSE, TOP		5d1	127	32'-10	4350	127	34'-0	4504	114	32'-10	3904	100	32'-10	3425
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'-1	371	44	8'-1	371	44	8'-1	371	66	8'-1	557
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	252	8'-6	2235	252	8'-6	2235	252	8'-6	2235	250	8'-6	2217
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.					67,504			67,978			68,188			69,060
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06					7974			7974			7974			7974
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06					8654			8654			8654			8654
TOTAL - LBS. WITH MONOLITHIC PIER CAP		WITH BARRIER RAIL			75,478			75,952			76,162			77,034
		WITH OPEN RAIL			76,158			76,632			76,842			77,714
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP		WITH BARRIER RAIL			73,964			74,402			74,496			74,925
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED		WITH OPEN RAIL			74,644			75,082			75,176			75,605

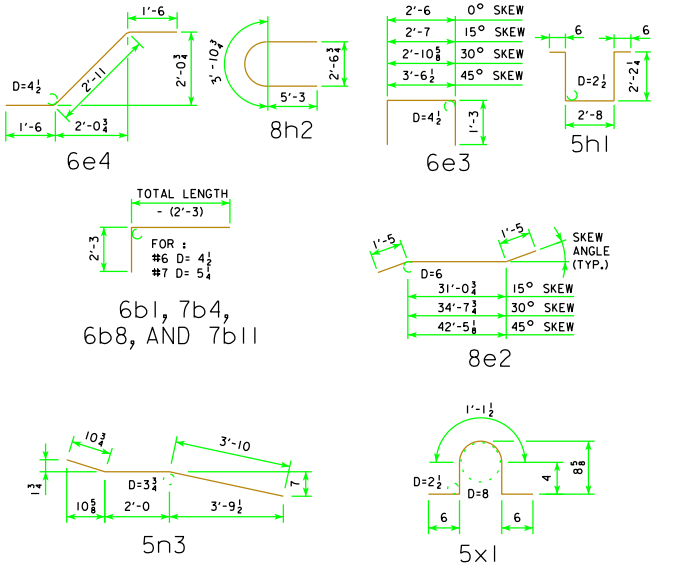
** BARS MAY BE NON-COATED AT CONTRACTOR'S OPTION.

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 130' BRIDGE

ITEM	SKEW	WITH MONOLITHIC PIER CAP 0°	15°	30°	45°	WITH NON-MONOLITHIC PIER CAP 0°	15°	30°	45°
WITH BARRIER RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	308.1	308.9	311.5	317.0	303.5	304.1	306.2	310.7
	REINFORCING STEEL EPOXY COATED LBS.	75,478	75,952	76,162	77,034	73,964	74,402	74,496	74,925
CONCRETE BARRIER OR OPEN RAIL	LIN. FT.	282.0	282.2	282.9	284.5	282.0	282.2	282.9	284.5
WITH OPEN RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	307.9	308.6	311.3	316.8	303.3	303.9	306.0	310.5
	REINFORCING STEEL EPOXY COATED LBS.	76,158	76,632	76,842	77,714	74,644	75,082	75,176	75,605

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

BENT BAR DETAILS



REVISED 12-08 - REVISED SHEET FOR NEW PAVING NOTCH.
REVISED 12-07 - OPEN RAIL REINFORCING QUANTITY CHANGED

12-08
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
130'-0 BRIDGE

EPOXY COATED REINFORCING

J30-15E-06