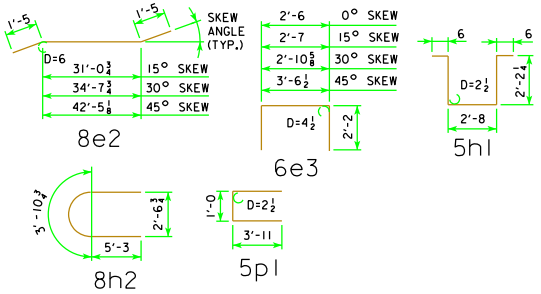
BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 130' BRIDGE

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	29'-10	3956	39	29'-10	3956	39	29'-10	3956	39	29'-10	3956
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	33'-10	4601	40	33'-10	4601	40	33'-10	4601	40	33'-10	4601
SLAB LONGITUDINAL BOTTOM		10a5	20	41'-0	3528	20	41'-0	3528	20	41'-0	3528	20	41'-0	3528
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a6	8	39'-8	1079	8	39'-8	1079	8	39'-8	1079	8	39'-8	1079
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	32'-4	691	8	32'-4	691	8	32'-4	691	8	32'-4	691
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a10	4	29'-0	394	4	29'-0	394	4	29'-0	394	4	29'-0	394
SLAB LONGITUDINAL TOP		6b1	39	6'-7	386	39	6'-7	386	39	6'-7	386	39	6'-7	386
SLAB LONGITUDINAL TOP		11b2	39	28'-9	5957	39	28'-9	5957	39	28'-9	5957	39	28'-9	5957
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	22'-7	1800	39	22'-7	1800	39	22'-7	1800	39	22'-7	1800
SLAB LONGITUDINAL TOP		10b5	40	25'-6	4389	40	25'-6	4389	40	25'-6	4389	40	25'-6	4389
SLAB LONGITUDINAL TOP		6b6	20	34'-4	1031	20	34'-4	1031	20	34'-4	1031	20	34'-4	1031
SLAB LONGITUDINAL TOP, AT RAIL		6b8	8	29'-1	349	8	29'-1	349	8	29'-1	349	8	29'-1	349
SLAB LONGITUDINAL TOP, AT RAIL		11b9	8	32'-9	1392	8	32'-9	1392	8	32'-9	1392	8	32'-9	1392
SLAB LONGITUDINAL TOP, AT RAIL		6b10	4	23'-0	138	4	23'-0	138	4	23'-0	138	4	23'-0	138
SLAB LONGITUDINAL TOP, AT RAIL		7b11	8	34'-4	561	8	34'-4	561	8	34'-4	561	8	34'-4	561
SLAB LONGITUDINAL TOP, AT RAIL		11b12	8	23'-9	1009	8	23'-9	1009	8	23'-9	1009	8	23'-9	1009
SLAB TRANSVERSE, BOTTOM		6c1	127	32'-10	6263	127	34'-0	6486	116	32'-10	5721	104	32'-10	5129
SLAB TRANSVERSE ENDS, BOTTOM		6c2	-	-	-	-	-	-	28	VARIES	800	52	VARIES	1426
SLAB TRANSVERSE, TOP		5d1	127	32'-10	4349	127	34'-0	4504	116	32'-10	3972	104	32'-10	3561
SLAB TRANSVERSE ENDS, TOP		5d2	-	-	-	-	-	-	28	VARIES	555	52	VARIES	990
SLAB, TRANSVERSE AT ABUTMENT		8e1	20	32'-10	1753	-	-	-	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT		8e2	-	-	-	20	33'-11	1811	20	37'-6	2003	20	45'-4	2421
SLAB, HAIRPINS, AT ABUTMENT		6e3	72	6'-10	739	72	6'-11	748	72	7'-3	784	72	7'-11	856
PIER CAP HOOPS		5h1	40	8'-1	337	40	8'-1	337	60	8'-1	506	60	8'-1	506
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	637	8	30'-11	660	8	34'-5	735	8	42'-2	901
PIER CAP, TOP LONGITUDINAL		8h4	4	32'-10	351	4	34'-0	363	4	37'-11	405	4	46'-6	497
TOP OF SLAB, TRANSVERSE, AT RAIL		5j1	252	8'-6	2234	252	8'-6	2234	252	8'-6	2234	250	8'-6	2216
WING, VERTICAL		5m1-4	32	SHOWN	117	32	SHOWN	117	32	SHOWN	117	32	SHOWN	117
WING, HORIZONTAL		5n1	24	6'-8	167	24	6'-8	167	24	6'-8	167	24	6'-8	167
PAVING SUPPORT, TRANSVERSE		5p1	30	8'-10	276	32	8'-10	295	34	8'-10	313	42	8'-10	387
PAVING SUPPORT LONGITUDINAL		5p3	6	30'-2	189	6	31'-3	196	6	34'-10	218	6	42'-7	266
SUB TOTAL - LBS.					67,534			68,040			68,652			69,562
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06					7746			7746			7746			7746
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06					8150			8150			8150			8150
TOTAL - LBS. WITH MONOLITHIC PIER CAP		WITH BARRIER RAIL			75,280			75,786			76,398			77,308
		WITH OPEN RAIL			75,684			76,190			76,802			77,712
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP		WITH BARRIER RAIL			73,801			74,272			74,598			75,250
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED		WITH OPEN RAIL			74,205			74,676			75,002			75,654

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER.

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.	314.8	315.8	319.2	326.6	309.9	310.7	313.6	319.7
	REINFORCING STEEL EPOXY COATED	LBS.	75,280	75,786	76,398	77,308	73,801	74,272	74,598	75,250
	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.	314.6	315.6	319.0	326.3	309.6	310.5	313.3	319.5
	REINFORCING STEEL EPOXY COATED	LBS.	75,684	76,190	76,802	77,712	74,205	74,676	75,002	75,654

* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.

REVISED 12-07 - OPEN RAIL REINFORCING QUANTITY CHANGED

12-07
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