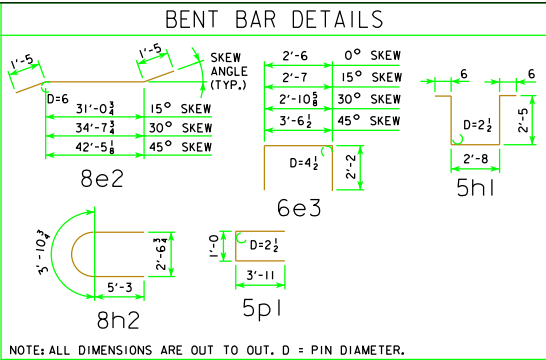


BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 150' BRIDGE																			
LOCATION		SKEW	SHAPE	0°				15°				30°				45°			
				BAR	NO.	LENGTH	WEIGHT	BAR	NO.	LENGTH	WEIGHT	BAR	NO.	LENGTH	WEIGHT	BAR	NO.	LENGTH	WEIGHT
SLAB LONGITUDINAL BOTTOM				10a1	39	33'-10	5678	39	33'-10	5678	39	33'-10	5678	39	33'-10	5678	39	33'-10	5678
SLAB LONGITUDINAL BOTTOM				10a2	39	51'-6	8643	39	51'-6	8643	39	51'-6	8643	39	51'-6	8643	39	51'-6	8643
SLAB LONGITUDINAL BOTTOM				10a3	39	48'-6	8139	39	48'-6	8139	39	48'-6	8139	39	48'-6	8139	39	48'-6	8139
SLAB LONGITUDINAL BOTTOM				9a4	40	37'-4	5077	40	37'-4	5077	40	37'-4	5077	40	37'-4	5077	40	37'-4	5077
SLAB LONGITUDINAL BOTTOM				9a5	20	45'-0	3060	20	45'-0	3060	20	45'-0	3060	20	45'-0	3060	20	45'-0	3060
SLAB LONGITUDINAL BOTTOM, AT RAIL				9a6	8	45'-8	1242	8	45'-8	1242	8	45'-8	1242	8	45'-8	1242	8	45'-8	1242
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	56'-8	771	4	56'-8	771	4	56'-8	771	4	56'-8	771	4	56'-8	771
SLAB LONGITUDINAL BOTTOM, AT RAIL				10a9	8	38'-7	1328	8	38'-7	1328	8	38'-7	1328	8	38'-7	1328	8	38'-7	1328
SLAB LONGITUDINAL BOTTOM, AT RAIL				10a10	4	35'-0	602	4	35'-0	602	4	35'-0	602	4	35'-0	602	4	35'-0	602
SLAB LONGITUDINAL TOP				6b1	39	6'-7	386	39	6'-7	386	39	6'-7	386	39	6'-7	386	39	6'-7	386
SLAB LONGITUDINAL TOP				11b2	39	32'-9	6786	39	32'-9	6786	39	32'-9	6786	39	32'-9	6786	39	32'-9	6786
SLAB LONGITUDINAL TOP				11b3	39	28'-6	5905	39	28'-6	5905	39	28'-6	5905	39	28'-6	5905	39	28'-6	5905
SLAB LONGITUDINAL TOP				8b4	39	32'-0	3332	39	32'-0	3332	39	32'-0	3332	39	32'-0	3332	39	32'-0	3332
SLAB LONGITUDINAL TOP				11b5	40	30'-0	6376	40	30'-0	6376	40	30'-0	6376	40	30'-0	6376	40	30'-0	6376
SLAB LONGITUDINAL TOP				6b6	20	37'-4	1121	20	37'-4	1121	20	37'-4	1121	20	37'-4	1121	20	37'-4	1121
SLAB LONGITUDINAL TOP, AT RAIL				6b8	8	33'-10	407	8	33'-10	407	8	33'-10	407	8	33'-10	407	8	33'-10	407
SLAB LONGITUDINAL TOP, AT RAIL				11b9	8	35'-6	1509	8	35'-6	1509	8	35'-6	1509	8	35'-6	1509	8	35'-6	1509
SLAB LONGITUDINAL TOP, AT RAIL				6b10	4	28'-0	168	4	28'-0	168	4	28'-0	168	4	28'-0	168	4	28'-0	168
SLAB LONGITUDINAL TOP, AT RAIL				7b11	8	39'-7	647	8	39'-7	647	8	39'-7	647	8	39'-7	647	8	39'-7	647
SLAB LONGITUDINAL TOP, AT RAIL				11b12	8	25'-6	1084	8	25'-6	1084	8	25'-6	1084	8	25'-6	1084	8	25'-6	1084
SLAB TRANSVERSE BOTTOM				6c1	147	32'-10	7249	147	34'-0	7507	136	32'-10	6707	124	32'-10	6115			
SLAB TRANSVERSE BOTTOM				6c2	-	-	-	-	-	-	28	VARIES	800	52	VARIES	1426			
SLAB TRANSVERSE, TOP				5d1	147	32'-10	5034	147	34'-0	5213	136	32'-10	4657	124	32'-10	4246			
SLAB TRANSVERSE, 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	44	8'-6	390	44	8'-6	390	44	8'-6	390	66	8'-6	585			
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	292	8'-6	2589	292	8'-6	2589	292	8'-6	2589	290	8'-6	2571			
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.							82,260			82,825			83,209			84,314			
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06							8853			8853			8853			8853			
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06							9182			9182			9182			9182			
TOTAL - LBS.				WITH MONOLITHIC PIER CAP			91,113			91,678			92,062			93,167			
				WITH OPEN RAIL			91,442			92,007			92,391			93,496			
TOTAL - LBS.				WITH NON-MONOLITHIC PIER CAP			89,581			90,111			90,378			91,030			
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED				WITH OPEN RAIL			89,910			90,440			90,707			91,359			

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.		399.8	400.7	404.0	411.2	394.8	395.6	398.4	404.3			
BARRIER RAIL	REINFORCING STEEL EPOXY COATED LBS.		91,113	91,678	92,062	93,167	89,581	90,111	90,378	91,030			
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.		399.5	400.5	403.8	410.9	394.5	395.3	398.1	404.0			
OPEN RAIL	REINFORCING STEEL EPOXY COATED LBS.		91,442	92,007	92,391	93,496	89,910	90,440	90,707	91,359			
* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.													



LATEST REVISION DATE

12-07

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

EPOXY COATED REINFORCING

J30-19E-06