

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 80' BRIDGE

LOCATION	SKEW	SHAPE	0°		15°		30°		45°		
			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	
SLAB LONGITUDINAL BOTTOM			8a1	39 18'-3	1901	39 18'-3	1901	39 18'-3	1901	39 18'-3	
SLAB LONGITUDINAL BOTTOM			8a2	39 27'-0	2812	39 27'-0	2812	39 27'-0	2812	39 27'-0	
SLAB LONGITUDINAL BOTTOM			8a3	39 28'-0	2916	39 28'-0	2916	39 28'-0	2916	39 28'-0	
SLAB LONGITUDINAL BOTTOM			7a4	40 23'-0	1881	40 23'-0	1881	40 23'-0	1881	40 23'-0	
SLAB LONGITUDINAL BOTTOM			7a5	20 24'-6	1002	20 24'-6	1002	20 24'-6	1002	20 24'-6	
SLAB LONGITUDINAL BOTTOM, AT RAIL			7a6	8 28'-9	471	8 28'-9	471	8 28'-9	471	8 28'-9	
SLAB LONGITUDINAL BOTTOM, AT RAIL			7a7	4 29'-4	240	4 29'-4	240	4 29'-4	240	4 29'-4	
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a8	8 20'-9	444	8 20'-9	444	8 20'-9	444	8 20'-9	
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	4 25'-6	273	4 25'-6	273	4 25'-6	273	4 25'-6	
SLAB LONGITUDINAL TOP			6b1	39 19'-6	1143	39 19'-6	1143	39 19'-6	1143	39 19'-6	
SLAB LONGITUDINAL TOP			9b2	39 21'-9	2885	39 21'-9	2885	39 21'-9	2885	39 21'-9	
SLAB LONGITUDINAL TOP			9b3	39 32'-0	4244	39 32'-0	4244	39 32'-0	4244	39 32'-0	
SLAB LONGITUDINAL TOP			6b4	40 7'-6	451	40 7'-6	451	40 7'-6	451	40 7'-6	
SLAB LONGITUDINAL TOP			8b5	40 21'-3	2270	40 21'-3	2270	40 21'-3	2270	40 21'-3	
SLAB LONGITUDINAL TOP			6b6	20 16'-4	491	20 16'-4	491	20 16'-4	491	20 16'-4	
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8 25'-6	307	8 25'-6	307	8 25'-6	307	8 25'-6	
SLAB LONGITUDINAL TOP, AT RAIL			9b9	8 23'-6	640	8 23'-6	640	8 23'-6	640	8 23'-6	
SLAB LONGITUDINAL TOP, AT RAIL			8b10	8 34'-0	727	8 34'-0	727	8 34'-0	727	8 34'-0	
SLAB TRANSVERSE, BOTTOM			6c1	77 32'-10	3798	77 34'-0	3933	64 32'-10	3157	50 32'-10	
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	30 VARIES	797	56 VARIES	
SLAB TRANSVERSE, TOP			5d1	77 32'-10	2637	77 34'-0	2731	64 32'-10	2192	50 32'-10	
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	30 VARIES	553	56 VARIES	
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	
SLAB, HAIRPINS, AT ABUTMENT			6e3	72 5'-0	541	72 5'-1	550	72 5'-5	586	72 6'-1	
SLAB, DIAGONALS, AT ABUTMENT			6e4	72 5'-11	640	72 5'-11	640	72 5'-11	640	72 5'-11	
PIER CAP HOOPS			5h1	48 7'-1	355	48 7'-1	355	60 7'-1	444	72 7'-1	
PIER CAP ENDS			8h2	4 14'-5	154	4 14'-5	154	4 14'-5	154	4 14'-5	
PIER CAP, BOTTOM LONGITUDINAL			8h3	8 29'-10	638	8 30'-11	661	8 34'-5	736	8 42'-2	
PIER CAP, TOP LONGITUDINAL			8h4	4 32'-10	351	4 34'-0	364	4 37'-11	405	4 46'-6	
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	152 8'-6	1348	152 8'-6	1348	150 8'-6	1330	150 8'-6	
WING, VERTICAL			5m1	40 4'-5	185	40 4'-5	185	40 4'-5	185	40 4'-5	
WING, HORIZONTAL BACK FACE			5n1	24 6'-8	167	24 6'-8	167	24 6'-8	167	24 6'-8	
WING, HORIZONTAL TRAFFIC FACE			5n3	24 6'-9	169	24 6'-9	169	24 6'-9	169	24 6'-9	
** PAVING BLOCK LIFTING HOOPS			5x1	10 2'-10	30	10 2'-10	30	10 2'-10	30	10 2'-10	
SUB TOTAL - LBS.					37,689		38,016		38,464		39,237
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06					5464		5464		5464		5464
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06					5799		5799		5799		5799
TOTAL - LBS.					43,153		43,480		43,928		44,701
			WITH MONOLITHIC PIER CAP		43,488		43,815		44,263		45,036
TOTAL - LBS.					41,655		41,946		42,189		42,617
			WITH NON-MONOLITHIC PIER CAP		41,990		42,281		42,524		42,952
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED					41,990		42,281		42,524		42,952

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

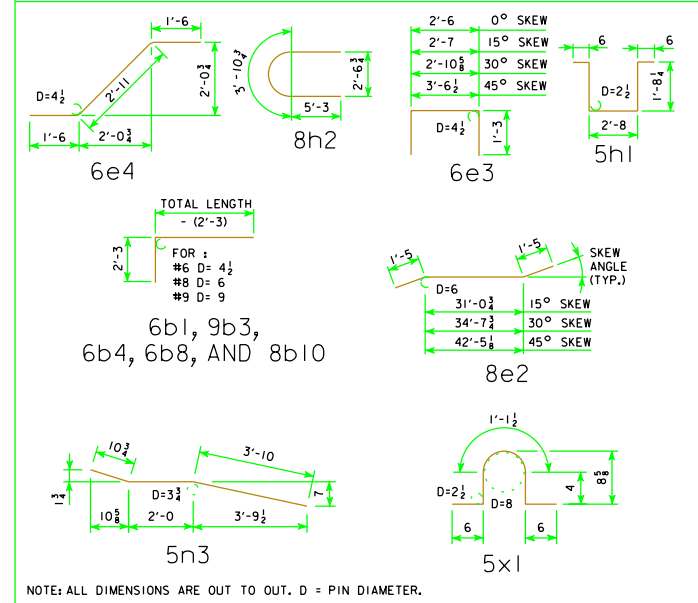
** BARS MAY BE NON-COATED AT CONTRACTOR'S OPTION.

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 80' 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.		152.0	152.8	155.6	161.6	147.4	148.0	150.4	155.3
BARRIER RAIL REINFORCING STEEL EPOXY COATED LBS.		43,153	43,480	43,928	44,701	41,655	41,946	42,189	42,617
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		182.0	182.2	182.9	184.5	182.0	182.2	182.9	184.5
WITH *STRUCTURAL CONCRETE (BRIDGE) C.Y.		151.8	152.6	155.5	161.5	147.2	147.8	150.2	155.1
OPEN RAIL REINFORCING STEEL EPOXY COATED LBS.		43,488	43,815	44,263	45,036	41,990	42,281	42,524	42,952

* 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 80'-0 BRIDGE
EPOXY COATED REINFORCING		