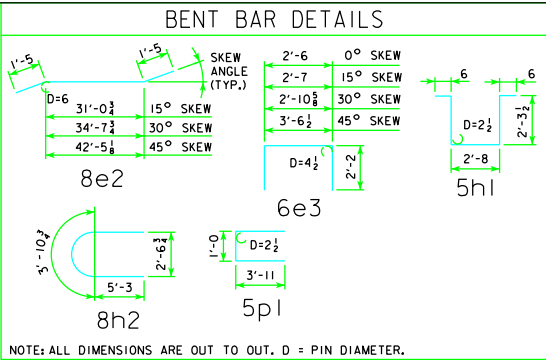


REVISED 12-07 - OPEN RAIL REINFORCING QUANTITY CHANGED

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 140' 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			9a1	39	30'-4	4023	39	30'-4	4023	39	30'-4	4023	39	30'-4	4023	39	30'-4	4023
SLAB LONGITUDINAL BOTTOM			10a2	39	45'-4	7608	39	45'-4	7608	39	45'-4	7608	39	45'-4	7608	39	45'-4	7608
SLAB LONGITUDINAL BOTTOM			9a3	39	41'-3	5470	39	41'-3	5470	39	41'-3	5470	39	41'-3	5470	39	41'-3	5470
SLAB LONGITUDINAL BOTTOM			10a4	40	34'-10	5996	40	34'-10	5996	40	34'-10	5996	40	34'-10	5996	40	34'-10	5996
SLAB LONGITUDINAL BOTTOM			9a5	20	40'-6	2754	20	40'-6	2754	20	40'-6	2754	20	40'-6	2754	20	40'-6	2754
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	40'-11	1113	8	40'-11	1113	8	40'-11	1113	8	40'-11	1113	8	40'-11	1113
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	49'-2	669	4	49'-2	669	4	49'-2	669	4	49'-2	669	4	49'-2	669
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a9	8	34'-1	928	8	34'-1	928	8	34'-1	928	8	34'-1	928	8	34'-1	928
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a10	4	29'-8	511	4	29'-8	511	4	29'-8	511	4	29'-8	511	4	29'-8	511
SLAB LONGITUDINAL TOP			6b1	39	6'-4	371	39	6'-4	371	39	6'-4	371	39	6'-4	371	39	6'-4	371
SLAB LONGITUDINAL TOP			11b2	39	23'-6	4870	39	23'-6	4870	39	23'-6	4870	39	23'-6	4870	39	23'-6	4870
SLAB LONGITUDINAL TOP			11b3	39	29'-3	6061	39	29'-3	6061	39	29'-3	6061	39	29'-3	6061	39	29'-3	6061
SLAB LONGITUDINAL TOP			7b4	39	24'-9	1973	39	24'-9	1973	39	24'-9	1973	39	24'-9	1973	39	24'-9	1973
SLAB LONGITUDINAL TOP			11b5	40	26'-6	5632	40	26'-6	5632	40	26'-6	5632	40	26'-6	5632	40	26'-6	5632
SLAB LONGITUDINAL TOP			6b6	20	36'-0	1082	20	36'-0	1082	20	36'-0	1082	20	36'-0	1082	20	36'-0	1082
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	32'-3	388	8	32'-3	388	8	32'-3	388	8	32'-3	388	8	32'-3	388
SLAB LONGITUDINAL TOP, AT RAIL			11b9	8	31'-6	1339	8	31'-6	1339	8	31'-6	1339	8	31'-6	1339	8	31'-6	1339
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	26'-10	162	4	26'-10	162	4	26'-10	162	4	26'-10	162	4	26'-10	162
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	37'-6	614	8	37'-6	614	8	37'-6	614	8	37'-6	614	8	37'-6	614
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	21'-9	925	8	21'-9	925	8	21'-9	925	8	21'-9	925	8	21'-9	925
SLAB TRANSVERSE, BOTTOM			6c1	137	32'-10	6757	137	34'-0	6997	126	32'-10	6214	114	32'-10	5622			
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	-	28	VARIES	800	52	VARIES	1426			
SLAB TRANSVERSE, TOP			5d1	137	32'-10	4692	137	34'-0	4859	126	32'-10	4315	114	32'-10	3904			
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	-	28	VARIES	555	52	VARIES	990			
SLAB, TRANSVERSE AT ABUTMENT			8e1	20	32'-10	1754	-	-	-	-	-	-	-	-	-			
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	20	33'-11	1812	20	37'-6	2003	20	45'-4	2421			
SLAB, HAIRPINS, AT ABUTMENT			6e3	72	6'-10	739	72	6'-11	748	72	7'-3	785	72	7'-11	857			
PIER CAP HOOPS			5h1	44	8'-3	379	44	8'-3	379	44	8'-3	379	66	8'-3	568			
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	272	8'-6	2412	272	8'-6	2412	272	8'-6	2412	270	8'-6	2394			
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	277	32	8'-10	295	34	8'-10	314	42	8'-10	387			
PAVING SUPPORT LONGITUDINAL			5p3	6	30'-2	189	6	31'-3	196	6	34'-10	218	6	42'-7	267			
SUB TOTAL - LBS.						71,469		72,004		72,417		73,515						
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06						8294		8294		8294		8294						
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06						8634		8634		8634		8634						
TOTAL - LBS.						79,763		80,298		80,711		81,809						
						WITH MONOLITHIC PIER CAP		WITH OPEN RAIL		80,638		81,051		82,149				
TOTAL - LBS.						78,241		78,740		79,037		79,689						
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED						WITH NON-MONOLITHIC PIER CAP		WITH BARRIER RAIL		79,377		80,029						
						WITH OPEN RAIL		79,080										

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 140' BRIDGE											
ITEM	SKEW		WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP				
			0°	15°	30°	45°	0°	15°	30°	45°	
WITH BARRIER RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	354.1	355.1	358.5	365.7	349.2	350.0	352.8	358.9		
CONCRETE BARRIER OR OPEN RAIL	REINFORCING STEEL LBS.	79,763	80,298	80,711	81,809	78,241	78,740	79,037	79,689		
WITH OPEN RAIL	CONCRETE BARRIER OR OPEN RAIL LIN. FT.	302.0	302.2	302.9	304.5	302.0	302.2	302.9	304.5		
WITH BARRIER RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	353.9	354.9	358.2	365.5	348.9	349.7	352.5	358.6		
CONCRETE BARRIER OR OPEN RAIL	REINFORCING STEEL LBS.	80,103	80,638	81,051	82,149	78,581	79,080	79,377	80,029		

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



12-07 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES	
		CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006	
SUPERSTRUCTURE DETAILS 140'-0 BRIDGE		J30-17B-06	
NON-EPOXY COATED REINFORCING			