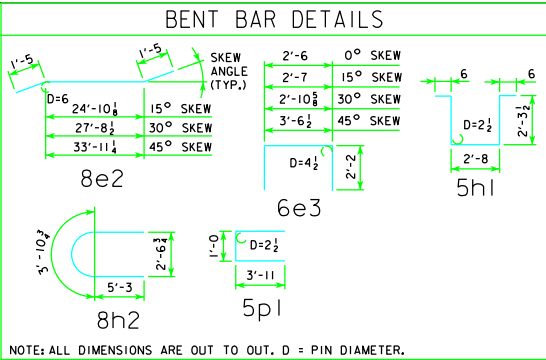


REVISED 12-07 - OPEN RAIL REINFORCING QUANTITY CHANGED

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 140' BRIDGE															
LOCATION	SKEW	SHAPE	BAR	NO.	0°		NO.	15°		NO.	30°		NO.	45°	
					LENGTH	WEIGHT		LENGTH	WEIGHT		LENGTH	WEIGHT		LENGTH	WEIGHT
SLAB LONGITUDINAL BOTTOM			9a1	31	30'-4	3197	31	30'-4	3197	31	30'-4	3197	31	30'-4	3197
SLAB LONGITUDINAL BOTTOM			10a2	31	45'-4	6047	31	45'-4	6047	31	45'-4	6047	31	45'-4	6047
SLAB LONGITUDINAL BOTTOM			9a3	31	41'-3	4348	31	41'-3	4348	31	41'-3	4348	31	41'-3	4348
SLAB LONGITUDINAL BOTTOM			10a4	32	34'-10	4796	32	34'-10	4796	32	34'-10	4796	32	34'-10	4796
SLAB LONGITUDINAL BOTTOM			9a5	16	40'-6	2203	16	40'-6	2203	16	40'-6	2203	16	40'-6	2203
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	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
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a8	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	927	8	34'-1	927	8	34'-1	927	8	34'-1	927
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a10	4	29'-8	511	4	29'-8	511	4	29'-8	511	4	29'-8	511
SLAB LONGITUDINAL TOP			6b1	31	6'-4	295	31	6'-4	295	31	6'-4	295	31	6'-4	295
SLAB LONGITUDINAL TOP			11b2	31	23'-6	3871	31	23'-6	3871	31	23'-6	3871	31	23'-6	3871
SLAB LONGITUDINAL TOP			11b3	31	29'-3	4818	31	29'-3	4818	31	29'-3	4818	31	29'-3	4818
SLAB LONGITUDINAL TOP			7b4	31	24'-9	1568	31	24'-9	1568	31	24'-9	1568	31	24'-9	1568
SLAB LONGITUDINAL TOP			11b5	32	26'-6	4505	32	26'-6	4505	32	26'-6	4505	32	26'-6	4505
SLAB LONGITUDINAL TOP			6b6	16	36'-0	865	16	36'-0	865	16	36'-0	865	16	36'-0	865
SLAB LONGITUDINAL TOP, AT RAIL			6b8	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
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	26'-10	161	4	26'-10	161	4	26'-10	161	4	26'-10	161
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	37'-6	613	8	37'-6	613	8	37'-6	613	8	37'-6	613
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	21'-9	924	8	21'-9	924	8	21'-9	924	8	21'-9	924
SLAB TRANSVERSE, BOTTOM			6c1	137	26'-10	5522	137	27'-9	5710	130	26'-10	5239	120	26'-10	4836
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	-	20	VARIES	494	40	VARIES	916
SLAB TRANSVERSE, TOP			5d1	137	26'-10	3834	137	27'-9	3965	130	26'-10	3638	120	26'-10	3358
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	-	20	VARIES	343	40	VARIES	636
SLAB, TRANSVERSE AT ABUTMENT			8e1	20	26'-10	1433	-	-	-	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	20	27'-8	1477	20	30'-7	1633	20	36'-9	1962
SLAB, HAIRPINS, AT ABUTMENT			6e3	60	6'-10	616	60	6'-11	623	60	7'-3	653	60	7'-11	713
PIER CAP HOOPS			5h1	36	8'-3	310	36	8'-3	310	36	8'-3	310	54	8'-3	465
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	23'-10	509	8	24'-8	527	8	27'-6	587	8	33'-8	719
PIER CAP, TOP LONGITUDINAL			8h4	4	26'-10	287	4	27'-9	296	4	30'-11	330	4	37'-11	405
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	272	8'-6	2411	272	8'-6	2411	272	8'-6	2411	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	24	8'-10	221	26	8'-10	240	28	8'-10	258	34	8'-10	313
PAVING SUPPORT LONGITUDINAL			5p3	6	24'-2	151	6	25'-0	156	6	27'-11	175	6	34'-1	213
SUB TOTAL - LBS.						59,244		59,665		60,021		60,880			
OPEN RAIL - SEE LIST ON RAIL SHEET J24-41-06						8634		8634		8634		8634			
TOTAL - LBS. WITH MONOLITHIC PIER CAP AND OPEN RAIL						67,878		68,299		68,655		69,514			
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP AND OPEN RAIL						66,618		67,012		67,274		67,771			
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED															

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°	
OPEN RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	290.2	291.0	293.7	299.6	286.0	286.6	288.9	293.8	
	REINFORCING STEEL LBS.	67,878	68,299	68,655	69,514	66,618	67,012	67,274	67,771	
OPEN RAIL	LIN. FT.	302.0	302.2	302.9	304.5	302.0	302.2	302.9	304.5	
* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.										



12-07 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 24' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006	
		SUPERSTRUCTURE DETAILS 140'-0 BRIDGE	
		J24-17-06	