

REVISED 07-09 - OPEN RAIL REIN. QTY'S CHANGED WHICH CHANGED TOTAL REIN. QTY'S.
REVISED 08-2022 UPDATED BRIDGE ENGINEER SIGNATURE. CHANGED PAVING BLOCK LIFTING HOOP BAR MARK, WAS SK1.

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 110' BRIDGE

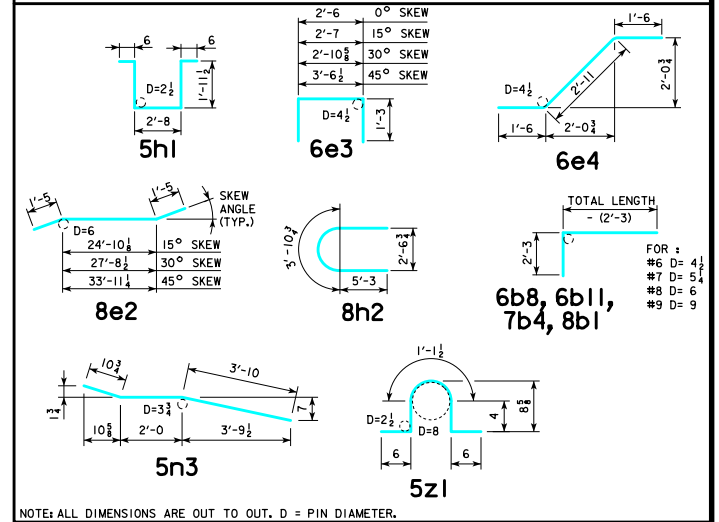
LOCATION	SKEW	SHAPE	0°		15°		30°		45°	
			NO.	LENGTH/WEIGHT	NO.	LENGTH/WEIGHT	NO.	LENGTH/WEIGHT	NO.	LENGTH/WEIGHT
SLAB LONGITUDINAL BOTTOM		8a1	31	23'-3 1925	31	23'-3 1925	31	23'-3 1925	31	23'-3 1925
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a2	31	35'-9 3769	31	35'-9 3769	31	35'-9 3769	31	35'-9 3769
SLAB LONGITUDINAL BOTTOM		8a3	31	32'-2 2663	31	32'-2 2663	31	32'-2 2663	31	32'-2 2663
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a4	32	30'-6 3319	32	30'-6 3319	32	30'-6 3319	32	30'-6 3319
SLAB LONGITUDINAL BOTTOM		8a5	16	39'-0 1667	16	39'-0 1667	16	39'-0 1667	16	39'-0 1667
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a6	8	39'-3 1068	8	39'-3 1068	8	39'-3 1068	8	39'-3 1068
SLAB LONGITUDINAL BOTTOM, AT RAIL		9a7	4	39'-2 533	4	39'-2 533	4	39'-2 533	4	39'-2 533
SLAB LONGITUDINAL BOTTOM, AT RAIL		8a8	8	22'-9 486	8	22'-9 486	8	22'-9 486	8	22'-9 486
SLAB LONGITUDINAL BOTTOM, AT RAIL		8a9	4	23'-0 246	4	23'-0 246	4	23'-0 246	4	23'-0 246
SLAB LONGITUDINAL TOP		8b1	31	12'-6 1035	31	12'-6 1035	31	12'-6 1035	31	12'-6 1035
SLAB LONGITUDINAL TOP		10b2	31	26'-4 3513	31	26'-4 3513	31	26'-4 3513	31	26'-4 3513
SLAB LONGITUDINAL TOP		10b3	31	23'-7 3146	31	23'-7 3146	31	23'-7 3146	31	23'-7 3146
SLAB LONGITUDINAL TOP		7b4	31	21'-7 1368	31	21'-7 1368	31	21'-7 1368	31	21'-7 1368
SLAB LONGITUDINAL TOP		10b5	32	24'-6 3374	32	24'-6 3374	32	24'-6 3374	32	24'-6 3374
SLAB LONGITUDINAL TOP		6b6	16	28'-6 685	16	28'-6 685	16	28'-6 685	16	28'-6 685
SLAB LONGITUDINAL TOP, AT RAIL		6b8	8	27'-2 327	8	27'-2 327	8	27'-2 327	8	27'-2 327
SLAB LONGITUDINAL TOP, AT RAIL		10b9	8	25'-3 870	8	25'-3 870	8	25'-3 870	8	25'-3 870
SLAB LONGITUDINAL TOP, AT RAIL		6b10	4	21'-10 132	4	21'-10 132	4	21'-10 132	4	21'-10 132
SLAB LONGITUDINAL TOP, AT RAIL		6b11	8	30'-8 369	8	30'-8 369	8	30'-8 369	8	30'-8 369
SLAB LONGITUDINAL TOP, AT RAIL		10b12	8	17'-6 603	8	17'-6 603	8	17'-6 603	8	17'-6 603
SLAB TRANSVERSE, BOTTOM		6c1	107	26'-10 4313	107	27'-9 3097	96	26'-10 2687	86	26'-10 2407
SLAB TRANSVERSE ENDS, BOTTOM		6c2	-	-	-	-	24	VARIES	402	44
SLAB TRANSVERSE ENDS, TOP		5d1	107	26'-10 2995	107	27'-9 3097	96	26'-10 2687	86	26'-10 2407
SLAB TRANSVERSE ENDS, TOP		5d2	-	-	-	-	24	VARIES	402	44
SLAB TRANSVERSE AT ABUTMENT		8e1	18	26'-10 1290	-	-	-	-	-	-
SLAB TRANSVERSE AT ABUTMENT		8e2	-	-	18	27'-8 1330	18	30'-7 1470	18	36'-9 1767
SLAB HAIRPINS, AT ABUTMENT		6e3	60	5'-0 451	60	5'-1 459	60	5'-5 489	60	6'-1 549
SLAB, DIAGONALS, AT ABUTMENT		6e4	60	5'-11 534	60	5'-11 534	60	5'-11 534	60	5'-11 534
PIER CAP HOOPS		5h1	32	7'-7 254	32	7'-7 254	48	7'-7 380	48	7'-7 380
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'-10 510	8	24'-8 527	8	27'-6 588	8	33'-8 720
PIER CAP, TOP LONGITUDINAL		8h4	4	26'-10 287	4	27'-9 297	4	30'-11 331	4	37'-11 405
TOP OF SLAB, TRANSVERSE, AT RAIL		5j1	212	8'-6 1880	212	8'-6 1880	212	8'-6 1880	210	8'-6 1862
WING, VERTICAL		5l1	40	4'-5 185	40	4'-5 185	40	4'-5 185	40	4'-5 185
WING, HORIZONTAL BACK FACE		5n1	24	6'-8 167	24	6'-8 167	24	6'-8 167	24	6'-8 167
WING, HORIZONTAL TRAFFIC FACE		5n3	24	6'-9 169	24	6'-9 169	24	6'-9 169	24	6'-9 169
PAVING BLOCK LIFTING HOOPS		5z1	8	2'-10 24	8	2'-10 24	8	2'-10 24	8	2'-10 24
SUB TOTAL - LBS.				44,311		44,635		45,007		45,532
OPEN RAIL - SEE LIST ON RAIL SHEET J24-41-06				7261		7261		7261		7261
TOTAL - LBS. WITH MONOLITHIC PIER CAP AND OPEN RAIL				51,572		51,896		52,268		52,793
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP AND OPEN RAIL				50,367		50,664		50,815		51,134
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED										

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 110' 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.	192.3	192.9	195.2	199.9	188.1	188.5	190.3	194.1
OPEN RAIL	REINFORCING STEEL LBS.	51,572	51,896	52,268	52,793	50,367	50,664	50,815	51,134
OPEN RAIL	LIN. FT.	242.0	242.2	242.9	244.5	242.0	242.2	242.9	244.5

* INCLUDES 4 WINGS @ 0.68 C.Y. EACH AND 2 TEMPORARY PAVING BLOCKS; EXCLUDES RAIL CONCRETE.

BENT BAR DETAILS



08-2022 LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 24'-0 ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006
	SUPERSTRUCTURE DETAILS 110'-0 BRIDGE
	J24-11-06