

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 80' BRIDGE

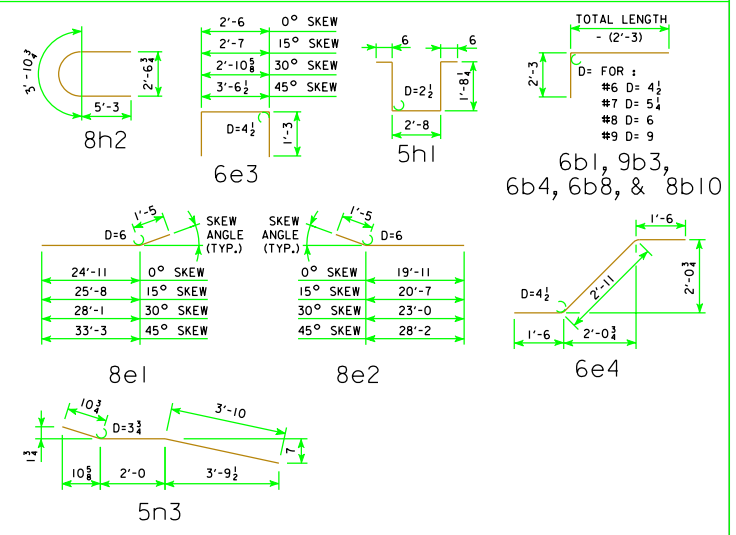
LOCATION	SKEW	SHAPE	0°				15°				30°				45°			
			BAR NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	
SLAB LONGITUDINAL BOTTOM			8a1	53	18'-3	2583	53	18'-3	2583	53	18'-3	2583	53	18'-3	2583			
SLAB LONGITUDINAL BOTTOM			8a2	53	27'-0	3821	53	27'-0	3821	53	27'-0	3821	53	27'-0	3821			
SLAB LONGITUDINAL BOTTOM			8a3	53	28'-0	3963	53	28'-0	3963	53	28'-0	3963	53	28'-0	3963			
SLAB LONGITUDINAL BOTTOM			7a4	52	23'-0	2445	52	23'-0	2445	52	23'-0	2445	52	23'-0	2445			
SLAB LONGITUDINAL BOTTOM			7a5	26	24'-6	1303	26	24'-6	1303	26	24'-6	1303	26	24'-6	1303			
SLAB LONGITUDINAL BOTTOM, AT RAIL			7a6	8	28'-9	471	8	28'-9	471	8	28'-9	471	8	28'-9	471			
SLAB LONGITUDINAL BOTTOM, AT RAIL			7a7	4	29'-4	240	4	29'-4	240	4	29'-4	240	4	29'-4	240			
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a8	8	20'-9	444	8	20'-9	444	8	20'-9	444	8	20'-9	444			
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	4	25'-6	273	4	25'-6	273	4	25'-6	273	4	25'-6	273			
SLAB LONGITUDINAL TOP			6b1	53	19'-6	1553	53	19'-6	1553	53	19'-6	1553	53	19'-6	1553			
SLAB LONGITUDINAL TOP			9b2	53	21'-9	3920	53	21'-9	3920	53	21'-9	3920	53	21'-9	3920			
SLAB LONGITUDINAL TOP			9b3	53	32'-0	5767	53	32'-0	5767	53	32'-0	5767	53	32'-0	5767			
SLAB LONGITUDINAL TOP			6b4	52	7'-6	586	52	7'-6	586	52	7'-6	586	52	7'-6	586			
SLAB LONGITUDINAL TOP			8b5	52	21'-3	2951	52	21'-3	2951	52	21'-3	2951	52	21'-3	2951			
SLAB LONGITUDINAL TOP			6b6	26	16'-4	638	26	16'-4	638	26	16'-4	638	26	16'-4	638			
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	25'-6	307	8	25'-6	307	8	25'-6	307	8	25'-6	307			
SLAB LONGITUDINAL TOP, AT RAIL			9b9	8	23'-6	640	8	23'-6	640	8	23'-6	640	8	23'-6	640			
SLAB LONGITUDINAL TOP, AT RAIL			8b10	8	34'-0	727	8	34'-0	727	8	34'-0	727	8	34'-0	727			
SLAB TRANSVERSE BOTTOM			6c1	77	23'-5	2709	77	24'-3	2805	68	23'-5	2392	58	23'-5	2040			
SLAB TRANSVERSE BOTTOM			6c2	77	21'-3	2458	77	22'-0	2545	69	21'-3	2203	61	21'-3	1947			
SLAB TRANSVERSE ENDS, BOTTOM			6c3	-	-	-	-	-	-	12	VARIES	223	20	VARIES	411			
SLAB TRANSVERSE ENDS, BOTTOM			6c4	-	-	-	-	-	-	11	VARIES	219	20	VARIES	386			
SLAB TRANSVERSE ENDS, BOTTOM			6c5	-	-	-	-	-	-	11	VARIES	176	18	VARIES	302			
SLAB TRANSVERSE ENDS, BOTTOM			6c6	-	-	-	-	-	-	11	VARIES	190	17	VARIES	311			
SLAB TRANSVERSE TOP			5d1	77	23'-9	1908	77	24'-7	1975	68	23'-9	1685	58	23'-9	1437			
SLAB TRANSVERSE TOP			5d2	77	21'-3	1707	77	22'-0	1767	69	21'-3	1530	61	21'-3	1352			
SLAB TRANSVERSE ENDS, TOP			5d3	-	-	-	-	-	-	12	VARIES	155	20	VARIES	286			
SLAB TRANSVERSE ENDS, TOP			5d4	-	-	-	-	-	-	11	VARIES	152	20	VARIES	268			
SLAB TRANSVERSE ENDS, TOP			5d5	-	-	-	-	-	-	11	VARIES	122	18	VARIES	210			
SLAB TRANSVERSE ENDS, TOP			5d6	-	-	-	-	-	-	11	VARIES	132	17	VARIES	216			
SLAB, TRANSVERSE AT ABUTMENT			8e1	18	26'-4	1266	18	27'-1	1302	18	29'-6	1418	18	34'-8	1667			
SLAB, TRANSVERSE AT ABUTMENT			8e2	18	21'-4	1026	18	22'-0	1058	18	24'-5	1174	18	29'-7	1422			
SLAB, HAIRPINS, AT ABUTMENT			6e3	92	5'-0	691	92	5'-1	703	92	5'-5	749	92	6'-1	841			
SLAB, DIAGONALS, AT ABUTMENT			6e4	92	5'-11	818	92	5'-11	818	92	5'-11	818	92	5'-11	818			
PIER CAP HOOPS			5h1	72	7'-1	532	72	7'-1	532	72	7'-1	532	108	7'-1	798			
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	25'-5	543	8	26'-7	568	8	29'-4	627	8	35'-0	748			
PIER CAP, BOTTOM LONGITUDINAL			8h4	8	19'-11	426	8	20'-3	433	8	22'-2	474	8	26'-10	574			
PIER CAP, TOP LONGITUDINAL			8h5	4	26'-2	280	4	27'-5	293	4	30'-4	324	4	36'-1	386			
PIER CAP, TOP LONGITUDINAL			8h6	4	21'-5	229	4	21'-10	234	4	23'-11	256	4	28'-8	307			
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	152	8'-6	1348	152	8'-6	1348	142	8'-6	1259	136	8'-6	1206			
WING, VERTICAL			5m1	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			
SUB TOTAL - LBS.						49,248			49,688			50,117			51,240			
BARRIER RAIL - SEE LIST ON RAIL SHEET J40-46-06						5464			5464			5464			5464			
OPEN RAIL - SEE LIST ON RAIL SHEET J40-49-06						5799			5799			5799			5799			
TOTAL - LBS.						54,712			55,152			55,581			56,704			
			WITH MONOLITHIC PIER CAP															
			WITH BARRIER RAIL			54,712			55,152			55,581			56,704			
			WITH OPEN RAIL			55,047			55,487			55,916			57,039			
TOTAL - LBS.						52,548			52,938			53,214			53,737			
			WITH MONOLITHIC PIER CAP															
			WITH BARRIER RAIL			52,548			52,938			53,214			53,737			
			WITH OPEN RAIL			52,883			53,273			53,549			54,072			

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.		195.1	196.2	199.6	207.2	189.1	189.9	192.7	198.8
BARRIER RAIL REINFORCING STEEL EPOXY COATED LBS.		54,712	55,152	55,581	56,704	52,548	52,938	53,214	53,737
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		182.0	182.2	182.9	184.5	162.0	162.2	162.9	164.5
WITH *STRUCTURAL CONCRETE (BRIDGE) C.Y.		195.0	196.0	199.5	207.1	188.9	189.8	192.6	198.7
OPEN RAIL REINFORCING STEEL EPOXY COATED LBS.		55,047	55,487	55,916	57,039	52,883	53,273	53,549	54,072

* INCLUDES 4 WINGS @ 0.68 C.Y. EACH; EXCLUDES RAIL CONCRETE.

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER.

NOTES:
 ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 THE TRANSVERSE REBARS ARE DETAILED WITH A SPLICE LAP.
 AT THE CONTRACTOR'S OPTION, THIS LAP MAY BE ELIMINATED
 BY FURNISHING FULL LENGTH BARS WITH NO REDUCTION IN
 PAY WEIGHT FOR SAME.



STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
**CONTINUOUS CONCRETE
 SLAB BRIDGES**
 NOVEMBER, 2006

SUPERSTRUCTURE DETAILS
 80'-0 BRIDGE

J40-05-06

LATEST REVISION DATE
 APPROVED BY BRIDGE ENGINEER
Thomas C. McQuinn

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