

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 140' BRIDGE

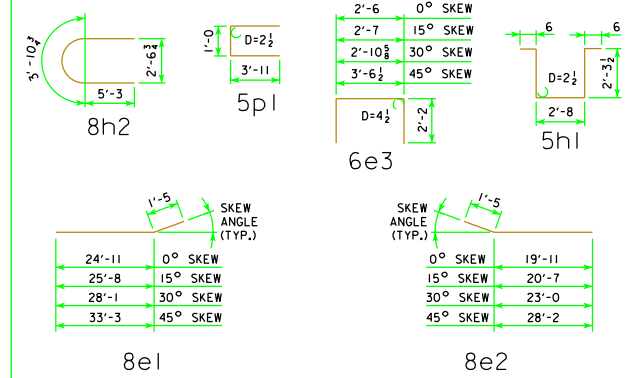
LOCATION	SKREW	SHAPE	BAR	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
SLAB LONGITUDINAL BOTTOM			9a1	53	31'-7	5691	53	31'-7	5691	53	31'-7	5691	53	31'-7	5691
SLAB LONGITUDINAL BOTTOM			10a2	53	48'-6	11,061	53	48'-6	11,061	53	48'-6	11,061	53	48'-6	11,061
SLAB LONGITUDINAL BOTTOM			9a3	53	43'-9	7884	53	43'-9	7884	53	43'-9	7884	53	43'-9	7884
SLAB LONGITUDINAL BOTTOM			10a4	52	36'-4	8130	52	36'-4	8130	52	36'-4	8130	52	36'-4	8130
SLAB LONGITUDINAL BOTTOM			9a5	26	43'-0	3801	26	43'-0	3801	26	43'-0	3801	26	43'-0	3801
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	42'-8	1161	8	42'-8	1161	8	42'-8	1161	8	42'-8	1161
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	52'-8	716	4	52'-8	716	4	52'-8	716	4	52'-8	716
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a9	8	35'-4	961	8	35'-4	961	8	35'-4	961	8	35'-4	961
SLAB LONGITUDINAL BOTTOM, AT RAIL			10a10	4	33'-0	568	4	33'-0	568	4	33'-0	568	4	33'-0	568
SLAB LONGITUDINAL TOP			6b1	53	6'-7	524	53	6'-7	524	53	6'-7	524	53	6'-7	524
SLAB LONGITUDINAL TOP			11b2	53	26'-0	7321	53	26'-0	7321	53	26'-0	7321	53	26'-0	7321
SLAB LONGITUDINAL TOP			11b3	53	31'-9	8940	53	31'-9	8940	53	31'-9	8940	53	31'-9	8940
SLAB LONGITUDINAL TOP			7b4	53	24'-4	2636	53	24'-4	2636	53	24'-4	2636	53	24'-4	2636
SLAB LONGITUDINAL TOP			11b5	52	29'-0	8012	52	29'-0	8012	52	29'-0	8012	52	29'-0	8012
SLAB LONGITUDINAL TOP			6b6	26	34'-4	1341	26	34'-4	1341	26	34'-4	1341	26	34'-4	1341
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	31'-7	380	8	31'-7	380	8	31'-7	380	8	31'-7	380
SLAB LONGITUDINAL TOP, AT RAIL			11b9	8	34'-0	1445	8	34'-0	1445	8	34'-0	1445	8	34'-0	1445
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	25'-6	153	4	25'-6	153	4	25'-6	153	4	25'-6	153
SLAB LONGITUDINAL TOP, AT RAIL			7b11	8	37'-1	606	8	37'-1	606	8	37'-1	606	8	37'-1	606
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	24'-3	1031	8	24'-3	1031	8	24'-3	1031	8	24'-3	1031
SLAB TRANSVERSE BOTTOM			6c1	137	23'-5	4819	137	24'-3	4990	130	23'-5	4572	122	23'-5	4291
SLAB TRANSVERSE BOTTOM			6c2	137	21'-3	4373	137	22'-0	4527	131	21'-3	4181	124	21'-3	3958
SLAB TRANSVERSE ENDS, BOTTOM			6c3	-	-	-	-	-	-	11	VARIES	226	18	VARIES	386
SLAB TRANSVERSE ENDS, BOTTOM			6c4	-	-	-	-	-	-	10	VARIES	219	18	VARIES	363
SLAB TRANSVERSE ENDS, BOTTOM			6c5	-	-	-	-	-	-	10	VARIES	180	17	VARIES	288
SLAB TRANSVERSE ENDS, BOTTOM			6c6	-	-	-	-	-	-	10	VARIES	193	16	VARIES	319
SLAB TRANSVERSE TOP			5d1	137	23'-9	3394	137	24'-7	3513	130	23'-9	3220	122	23'-9	3022
SLAB TRANSVERSE TOP			5d2	137	21'-3	3036	137	22'-0	3144	131	21'-3	2903	124	21'-3	2748
SLAB TRANSVERSE ENDS, TOP			5d3	-	-	-	-	-	-	11	VARIES	157	18	VARIES	268
SLAB TRANSVERSE ENDS, TOP			5d4	-	-	-	-	-	-	10	VARIES	152	18	VARIES	252
SLAB TRANSVERSE ENDS, TOP			5d5	-	-	-	-	-	-	10	VARIES	125	17	VARIES	200
SLAB TRANSVERSE ENDS, TOP			5d6	-	-	-	-	-	-	10	VARIES	134	16	VARIES	222
SLAB, TRANSVERSE AT ABUTMENT			8e1	20	26'-4	1406	20	27'-1	1446	20	29'-6	1575	20	34'-8	1851
SLAB, TRANSVERSE AT ABUTMENT			8e2	20	21'-4	1139	20	22'-0	1175	20	24'-5	1304	20	29'-7	1580
SLAB, HAIRPINS, AT ABUTMENT			6e3	92	6'-10	944	92	6'-11	956	92	7'-3	1002	92	7'-11	1094
PIER CAP HOOPS			5h1	60	8'-3	516	60	8'-3	516	60	8'-3	516	90	8'-3	774
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	425	8	20'-3	433	8	22'-2	473	8	26'-10	573
PIER CAP, TOP LONGITUDINAL			8h5	4	26'-2	279	4	27'-5	293	4	30'-4	324	4	36'-1	385
PIER CAP, TOP LONGITUDINAL			8h6	4	21'-5	229	4	21'-10	233	4	23'-11	255	4	28'-8	306
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	272	8'-6	2411	272	8'-6	2411	266	8'-6	2358	264	8'-6	2340
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	40	8'-10	369	42	8'-10	387	46	8'-10	424	56	8'-10	516
PAVING SUPPORT LONGITUDINAL			5p3	6	22'-9	142	6	24'-0	150	6	26'-5	165	6	31'-9	199
PAVING SUPPORT LONGITUDINAL			5p4	6	20'-0	125	6	20'-9	130	6	23'-1	144	6	28'-3	177
SUB TOTAL - LBS.						97,304			98,026			98,583			100,014
BARRIER RAIL - SEE LIST ON RAIL SHEET J40-46-06						8294			8294			8294			8294
OPEN RAIL - SEE LIST ON RAIL SHEET J40-49-06						8634			8634			8634			8634
TOTAL - LBS.						105,938			106,660			106,877			108,308
						WITH MONOLITHIC PIER CAP			WITH BARRIER RAIL			105,598			106,320
						WITH OPEN RAIL			WITH OPEN RAIL			105,938			106,660
TOTAL - LBS.						103,452			104,123			104,528			105,368
						WITH NON-MONOLITHIC PIER CAP			WITH BARRIER RAIL			103,452			104,123
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED						WITH OPEN RAIL			WITH OPEN RAIL			103,452			104,123

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 140' BRIDGE

		WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP			
ITEM	SKREW	0°	15°	30°	45°	0°	15°	30°	45°
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		460.2	461.5	465.9	475.5	454.2	455.3	459.0	467.1
BARRIER RAIL REINFORCING STEEL EPOXY COATED LBS.		105,598	106,320	106,877	108,308	103,452	104,123	104,528	105,368
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		302.0	302.2	302.9	304.5	302.0	302.2	302.9	304.5
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		460.0	461.3	465.7	475.2	453.9	455.0	458.8	466.9
OPEN RAIL REINFORCING STEEL EPOXY COATED LBS.		105,938	106,660	107,217	108,648	103,792	104,463	104,868	105,708
* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.									

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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.

12-07 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006	
		SUPERSTRUCTURE DETAILS 140'-0 BRIDGE	
		J40-17-06	