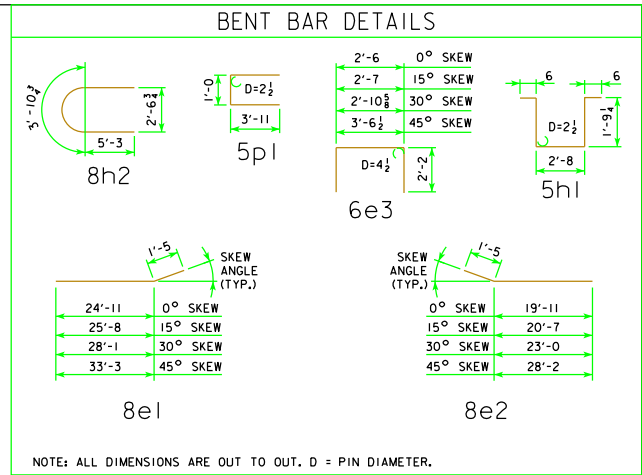


BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 90' BRIDGE																		
LOCATION	SKEW	SHAPE	0°				15°				30°				45°			
			BAR	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT			
SLAB LONGITUDINAL BOTTOM			8a1	53	21'-1	2984	53	21'-1	2984	53	21'-1	2984	53	21'-1	2984	53	21'-1	2984
SLAB LONGITUDINAL BOTTOM			8a2	53	30'-3	4281	53	30'-3	4281	53	30'-3	4281	53	30'-3	4281	53	30'-3	4281
SLAB LONGITUDINAL BOTTOM			8a3	53	28'-6	4033	53	28'-6	4033	53	28'-6	4033	53	28'-6	4033	53	28'-6	4033
SLAB LONGITUDINAL BOTTOM			8a4	52	26'-7	3691	52	26'-7	3691	52	26'-7	3691	52	26'-7	3691	52	26'-7	3691
SLAB LONGITUDINAL BOTTOM			8a5	26	28'-0	1944	26	28'-0	1944	26	28'-0	1944	26	28'-0	1944	26	28'-0	1944
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a6	8	33'-4	712	8	33'-4	712	8	33'-4	712	8	33'-4	712	8	33'-4	712
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a7	4	34'-4	367	4	34'-4	367	4	34'-4	367	4	34'-4	367	4	34'-4	367
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a8	8	23'-10	509	8	23'-10	509	8	23'-10	509	8	23'-10	509	8	23'-10	509
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	4	21'-0	224	4	21'-0	224	4	21'-0	224	4	21'-0	224	4	21'-0	224
SLAB LONGITUDINAL TOP			6b1	53	6'-10	544	53	6'-10	544	53	6'-10	544	53	6'-10	544	53	6'-10	544
SLAB LONGITUDINAL TOP			9b2	53	22'-9	4100	53	22'-9	4100	53	22'-9	4100	53	22'-9	4100	53	22'-9	4100
SLAB LONGITUDINAL TOP			9b3	53	33'-10	6097	53	33'-10	6097	53	33'-10	6097	53	33'-10	6097	53	33'-10	6097
SLAB LONGITUDINAL TOP			6b4	52	11'-10	924	52	11'-10	924	52	11'-10	924	52	11'-10	924	52	11'-10	924
SLAB LONGITUDINAL TOP			9b5	52	27'-6	4862	52	27'-6	4862	52	27'-6	4862	52	27'-6	4862	52	27'-6	4862
SLAB LONGITUDINAL TOP			6b6	26	16'-10	657	26	16'-10	657	26	16'-10	657	26	16'-10	657	26	16'-10	657
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	24'-10	298	8	24'-10	298	8	24'-10	298	8	24'-10	298	8	24'-10	298
SLAB LONGITUDINAL TOP, AT RAIL			9b9	8	19'-6	530	8	19'-6	530	8	19'-6	530	8	19'-6	530	8	19'-6	530
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	18'-0	108	4	18'-0	108	4	18'-0	108	4	18'-0	108	4	18'-0	108
SLAB LONGITUDINAL TOP, AT RAIL			6b11	8	27'-4	328	8	27'-4	328	8	27'-4	328	8	27'-4	328	8	27'-4	328
SLAB LONGITUDINAL TOP, AT RAIL			10b12	8	13'-3	456	8	13'-3	456	8	13'-3	456	8	13'-3	456	8	13'-3	456
SLAB TRANSVERSE BOTTOM			6c1	87	23'-5	3060	87	24'-3	3169	80	23'-5	2814	72	23'-5	2532			
SLAB TRANSVERSE BOTTOM			6c2	87	21'-3	2777	87	22'-0	2875	81	21'-3	2585	74	21'-3	2362			
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	87	23'-9	2155	87	24'-7	2231	80	23'-9	1982	72	23'-9	1784			
SLAB TRANSVERSE TOP			5d2	87	21'-3	1928	87	22'-0	1996	81	21'-3	1795	74	21'-3	1640			
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	72	7'-3	544	72	7'-3	544	72	7'-3	544	108	7'-3	817			
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	172	8'-6	1525	172	8'-6	1525	166	8'-6	1472	164	8'-6	1454			
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.						55,677			56,198			56,958			58,403			
BARRIER RAIL - SEE LIST ON RAIL SHEET J40-46-06						5642			5642			5642			5642			
OPEN RAIL - SEE LIST ON RAIL SHEET J40-49-06						5907			5907			5907			5907			
TOTAL - LBS.			WITH MONOLITHIC PIER CAP			61,319			61,840			62,600			64,045			
			WITH OPEN RAIL			61,584			62,105			62,865			64,310			
TOTAL - LBS.			WITH NON-MONOLITHIC PIER CAP			59,145			59,615			60,223			61,062			
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED			WITH OPEN RAIL			59,410			59,880			60,488			61,327			

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 90' BRIDGE											
		WITH MONOLITHIC PIER CAP								WITH NON-MONOLITHIC PIER CAP	
ITEM	SKEW	0°	15°	30°	45°	0°	15°	30°	45°		
WITH BARRIER RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	237.8	239.2	243.9	254.1	231.8	233.0	237.0	245.7		
	REINFORCING STEEL EPOXY COATED LBS.	61,319	61,840	62,600	64,045	59,145	59,615	60,223	61,062		
	CONCRETE BARRIER OR OPEN RAIL LIN. FT.	202.0	202.2	202.9	204.5	202.0	202.2	202.9	204.5		
WITH OPEN RAIL	*STRUCTURAL CONCRETE (BRIDGE) C.Y.	237.7	239.0	243.7	253.9	231.6	232.8	236.8	245.6		
	REINFORCING STEEL EPOXY COATED LBS.	61,584	62,105	62,865	64,310	59,410	59,880	60,488	61,327		
* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.											



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	<i>Thomas E. McQuinn</i> APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES	
		CONTINUOUS CONCRETE SLAB BRIDGES	
		NOVEMBER, 2006	
		SUPERSTRUCTURE DETAILS 90'-0' BRIDGE	J40-07-06