

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 70' BRIDGE															
LOCATION	SKEW	SHAPE	0°			15°			30°			45°			
			BAR	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
SLAB LONGITUDINAL BOTTOM			7a1	39	16'-4	1303	39	16'-4	1303	39	16'-4	1303	39	16'-4	1303
SLAB LONGITUDINAL BOTTOM			8a2	39	23'-0	2395	39	23'-0	2395	39	23'-0	2395	39	23'-0	2395
SLAB LONGITUDINAL BOTTOM			7a3	39	24'-7	1960	39	24'-7	1960	39	24'-7	1960	39	24'-7	1960
SLAB LONGITUDINAL BOTTOM			8a4	40	20'-10	2225	40	20'-10	2225	40	20'-10	2225	40	20'-10	2225
SLAB LONGITUDINAL BOTTOM			7a5	20	20'-6	839	20	20'-6	839	20	20'-6	839	20	20'-6	839
SLAB LONGITUDINAL BOTTOM, AT RAIL			7a6	8	25'-10	423	8	25'-10	423	8	25'-10	423	8	25'-10	423
SLAB LONGITUDINAL BOTTOM, AT RAIL			7a7	4	25'-4	208	4	25'-4	208	4	25'-4	208	4	25'-4	208
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a8	8	18'-4	392	8	18'-4	392	8	18'-4	392	8	18'-4	392
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	4	21'-6	230	4	21'-6	230	4	21'-6	230	4	21'-6	230
SLAB LONGITUDINAL TOP			6b1	39	7'-7	445	39	7'-7	445	39	7'-7	445	39	7'-7	445
SLAB LONGITUDINAL TOP			8b2	39	17'-3	1797	39	17'-3	1797	39	17'-3	1797	39	17'-3	1797
SLAB LONGITUDINAL TOP			8b3	39	25'-8	2673	39	25'-8	2673	39	25'-8	2673	39	25'-8	2673
SLAB LONGITUDINAL TOP			7b4	40	21'-0	1717	40	21'-0	1717	40	21'-0	1717	40	21'-0	1717
SLAB LONGITUDINAL TOP			8b5	40	11'-4	1211	40	11'-4	1211	40	11'-4	1211	40	11'-4	1211
SLAB LONGITUDINAL TOP			6b6	20	20'-6	616	20	20'-6	616	20	20'-6	616	20	20'-6	616
SLAB LONGITUDINAL TOP, AT RAIL			8b8	8	38'-4	819	8	38'-4	819	8	38'-4	819	8	38'-4	819
SLAB LONGITUDINAL TOP, AT RAIL			8b9	8	28'-4	606	8	28'-4	606	8	28'-4	606	8	28'-4	606
SLAB TRANSVERSE, BOTTOM			6c1	67	32'-10	3305	67	34'-0	3422	56	32'-10	2762	44	32'-10	2170
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	-	28	VARIES	800	52	VARIES	1426
SLAB TRANSVERSE, TOP			5d1	67	32'-10	2295	67	34'-0	2376	56	32'-10	1918	44	32'-10	1507
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	-	28	VARIES	555	52	VARIES	990
SLAB, TRANSVERSE AT ABUTMENT			8e1	20	32'-10	1754	-	-	-	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	20	33'-11	1812	20	37'-6	2003	20	45'-4	242
SLAB, HAIRPINS, AT ABUTMENT			6e3	72	6'-10	739	72	6'-11	748	72	7'-3	785	72	7'-11	857
PIER CAP HOOPS			5h1	48	6'-11	347	48	6'-11	347	60	6'-11	433	72	6'-11	520
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	29'-10	638	8	30'-11	661	8	34'-5	736	8	42'-2	901
PIER CAP, TOP LONGITUDINAL			8h4	4	32'-10	351	4	34'-0	364	4	37'-11	405	4	46'-6	497
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	132	8'-6	1171	132	8'-6	1171	132	8'-6	1171	130	8'-6	1153
WING, VERTICAL			5m1-4	32	SHOWN	117	32	SHOWN	117	32	SHOWN	117	32	SHOWN	117
WING, H															

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

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 70' BRIDGE										
ITEM		SKEW	WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP			
			0°	15°	30°	45°	0°	15°	30°	45°
WITH BARRIER RAIL	*STRUCTURAL CONCRETE (BRIDGE)	C.Y.	137.9	139.0	142.6	150.5	132.9	133.8	136.9	143.6
	REINFORCING STEEL	LBS.	36,012	36,338	37,046	38,042	34,522	34,812	35,318	35,970
	CONCRETE BARRIER OR OPEN RAIL	LIN. FT.	162.0	162.2	162.9	164.5	162.0	162.2	162.9	164.5
WITH OPEN RAIL	*STRUCTURAL CONCRETE (BRIDGE)	C.Y.	137.7	138.8	142.5	150.4	132.8	133.7	136.8	143.5
	REINFORCING STEEL	LBS.	36,040	36,366	37,074	38,070	34,550	34,840	35,346	35,998

* INCLUDES 4 WINGS @ 0.71 C.Y. EACH; EXCLUDES RAIL CONCRETE.

12-07 LATEST REVISION DATE	 Iowa Department of Transportation Highway Division	
	STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES CONTINUOUS CONCRETE SLAB BRIDGES NOVEMBER, 2006	
12-07 LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER 	SUPERSTRUCTURE DETAILS 70'-0 BRIDGE NON-EPOXY COATED REINFORCING

REVISID 12-07 - OPEN RAIL REINFORCING QUANTITY CHANGED