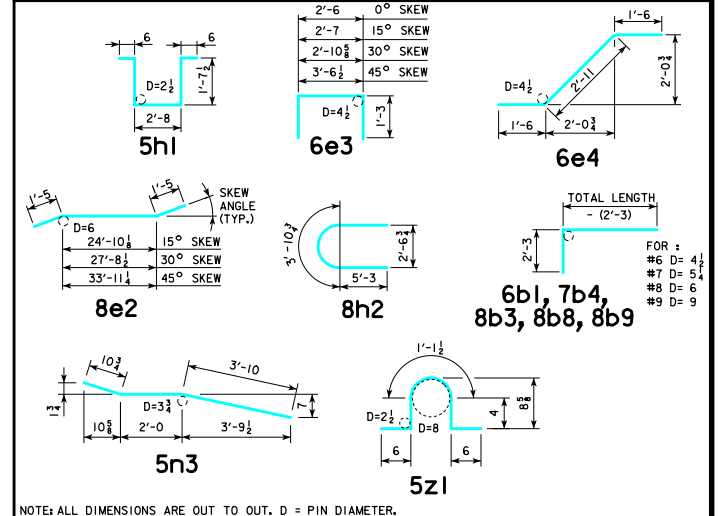


BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 70' BRIDGE

LOCATION	SHAPE	0°				15°				30°				45°			
		NO.	LENGTH	WEIGHT		NO.	LENGTH	WEIGHT		NO.	LENGTH	WEIGHT		NO.	LENGTH	WEIGHT	
SLAB LONGITUDINAL BOTTOM	7a1	31	15'-3	967		31	15'-3	967		31	15'-3	967		31	15'-3	967	
SLAB LONGITUDINAL BOTTOM, AT RAIL	8a2	31	23'-0	1904		31	23'-0	1904		31	23'-0	1904		31	23'-0	1904	
SLAB LONGITUDINAL BOTTOM	7a3	31	23'-6	1490		31	23'-6	1490		31	23'-6	1490		31	23'-6	1490	
SLAB LONGITUDINAL BOTTOM, AT RAIL	8a4	32	19'-9	1688		32	19'-9	1688		32	19'-9	1688		32	19'-9	1688	
SLAB LONGITUDINAL BOTTOM	7a5	16	20'-6	671		16	20'-6	671		16	20'-6	671		16	20'-6	671	
SLAB LONGITUDINAL BOTTOM, AT RAIL	7a6	8	24'-9	405		8	24'-9	405		8	24'-9	405		8	24'-9	405	
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	17'-3	369		8	17'-3	369		8	17'-3	369		8	17'-3	369	
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	31	8'-9	408		31	8'-9	408		31	8'-9	408		31	8'-9	408	
SLAB LONGITUDINAL TOP	8b2	31	17'-3	1428		31	17'-3	1428		31	17'-3	1428		31	17'-3	1428	
SLAB LONGITUDINAL TOP	8b3	31	26'-10	2221		31	26'-10	2221		31	26'-10	2221		31	26'-10	2221	
SLAB LONGITUDINAL TOP	7b4	32	22'-2	1450		32	22'-2	1450		32	22'-2	1450		32	22'-2	1450	
SLAB LONGITUDINAL TOP	8b5	32	11'-4	969		32	11'-4	969		32	11'-4	969		32	11'-4	969	
SLAB LONGITUDINAL TOP	6b6	16	20'-6	493		16	20'-6	493		16	20'-6	493		16	20'-6	493	
SLAB LONGITUDINAL TOP, AT RAIL	8b8	8	39'-6	844		8	39'-6	844		8	39'-6	844		8	39'-6	844	
SLAB LONGITUDINAL TOP, AT RAIL	8b9	8	29'-6	631		8	29'-6	631		8	29'-6	631		8	29'-6	631	
SLAB TRANSVERSE, BOTTOM	6c1	67	26'-10	2701		67	27'-9	2793		56	26'-10	2258		46	26'-10	1854	
SLAB TRANSVERSE ENDS, BOTTOM	6c2	-	-	-		-	-	-		24	VARIES	579		44	VARIES	970	
SLAB TRANSVERSE, TOP	5d1	67	26'-10	1876		67	27'-9	1940		56	26'-10	1568		46	26'-10	1288	
SLAB TRANSVERSE ENDS, TOP	5d2	-	-	-		-	-	-		24	VARIES	402		44	VARIES	674	
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	40	6'-11	289		40	6'-11	289		50	6'-11	361		60	6'-11	433	
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	132	8'-6	1171		132	8'-6	1171		132	8'-6	1171		130	8'-6	1153	
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	
PAVING BLOCK LIFTING HOOPS	5z1	8	2'-10	24		8	2'-10	24		8	2'-10	24		8	2'-10	24	
SUB TOTAL - LBS.				26,184				26,415				26,826				27,422	
OPEN RAIL - SEE LIST ON RAIL SHEET J24-41-06				5100				5100				5100				5100	
TOTAL - LBS. WITH MONOLITHIC PIER CAP AND OPEN RAIL				31,284				31,515				31,926				32,522	
TOTAL - LBS. WITH NON-MONOLITHIC PIER CAP AND OPEN RAIL				30,044				30,248				30,492				30,810	
SAME AS ABOVE EXCEPT ALL "h" BARS DELETED																	

BENT BAR DETAILS



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°	
OPEN RAIL	STRUCTURAL CONCRETE (BRIDGE)	C.Y.	107.7	108.4	110.8	115.8	103.5	104.0	106.0	110.0
OPEN RAIL	REINFORCING STEEL	LBS.	31,284	31,515	31,926	32,522	30,044	30,248	30,492	30,810
OPEN RAIL		LIN. FT.	162.0	162.2	162.9	164.5	162.0	162.2	162.9	164.5

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

08-2022
LATEST REVISION DATE

STANDARD DESIGN - 24'-0 ROADWAY, 3 SPAN BRIDGES

CONTINUOUS CONCRETE SLAB BRIDGES

NOVEMBER, 2006

APPROVED BY BRIDGE ENGINEER

SUPERSTRUCTURE DETAILS
70'-0 BRIDGE

J24-03-06