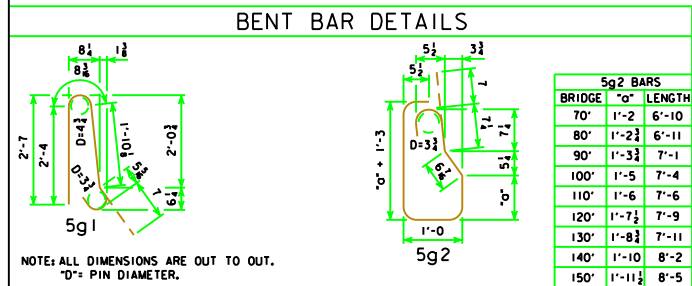


EPOXY REINFORCING STEEL-TWO BARRIER RAILS																															
BRIDGE LENGTH				70'-0			80'-0			90'-0			100'-0			110'-0			120'-0			130'-0			140'-0			150'-0			
SECTION	BAR	LOCATION		SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT			
STANDARD SECTION	5g1	VERTICAL		A	136	5'-11	839	156	5'-11	963	176	5'-11	1086	196	5'-11	1210	216	5'-11	1333	236	5'-11	1456	256	5'-11	1580	276	5'-11	1703	296	5'-11	1827
	5g2	VERTICAL			136	6'-10	969	156	6'-11	1125	176	7'-1	1300	196	7'-4	1499	216	7'-6	1690	236	7'-9	1908	256	7'-11	2114	276	8'-2	2351	296	8'-5	2598
	5f1	LONGITUDINAL		B	36	35'-1	1317	54	27'-5	1544	54	30'-9	1732	54	34'-1	1920	54	37'-5	2107	72	31'-2	2340	72	33'-8	2528	72	36'-2	2716	72	38'-8	2904
	4 END SECTIONS @ 381 LBS.																														
(INCLUDE WITH SUPERSTRUCTURE REINFORCING)					TOTAL (LBS.)		4649	TOTAL (LBS.)		5156	TOTAL (LBS.)		5642	TOTAL (LBS.)		6153	TOTAL (LBS.)		6654	TOTAL (LBS.)		7228	TOTAL (LBS.)		7746	TOTAL (LBS.)		8294	TOTAL (LBS.)		8853
REINFORCING QUANTITIES SHOWN ARE BASED ON 45° SKEW BID LENGTHS.																															

REINFORCING QUANTITIES SHOWN ARE BASED ON 45° SKEW BID LENGTHS.

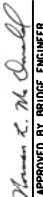


BRIDGE LENGTH		70'-0	80'-0	90'-0	100'-0	110'-0	120'-0	130'-0	140'-0	150'-0
STANDARD SECTION	2 X B @ 0.1052 CU. YDS. PER FT.	14.4	16.5	18.6	20.7	22.8	24.9	27.0	29.1	31.2
END SECTION	4 @ 0.62 CU. YDS.	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
TOTAL (CU. YDS.)		16.9	19.0	21.1	23.2	25.3	27.4	29.5	31.6	33.7

* SEE J44-45-06 FOR DIMENSION "B".
CONCRETE QUANTITIES SHOWN ARE
BASED ON 45° SKEW BID LENGTHS.

BRIDGE LENGTH		UNIT	70'-0	80'-0	90'-0	100'-0	110'-0	120'-0	130'-0	140'-0	150'-0
CONCRETE BARRIER RAILING	0° SKEW	L.F.	162.0	182.0	202.0	222.0	242.0	262.0	282.0	302.0	322.0
CONCRETE BARRIER RAILING	15° SKEW	L.F.	162.2	182.2	202.2	222.2	242.2	262.2	282.2	302.2	322.2
CONCRETE BARRIER RAILING	30° SKEW	L.F.	162.9	182.9	202.9	222.9	242.9	262.9	282.9	302.9	322.9
CONCRETE BARRIER RAILING	45° SKEW	L.F.	164.5	184.5	204.5	224.5	244.5	264.5	284.5	304.5	324.5

LATEST REVISION DATE



APPROVED BY BRIDGE ENGINEER



Iowa Department of Transportation

Highway Division

STANDARD DESIGN - 44' ROADWAY, 3 SPAN BRIDGES

CONTINUOUS CONCRETE SLAB BRIDGES

NOVEMBER, 2006

BARRIER RAIL DETAILS

J44-46-06