EPOXY COATED REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

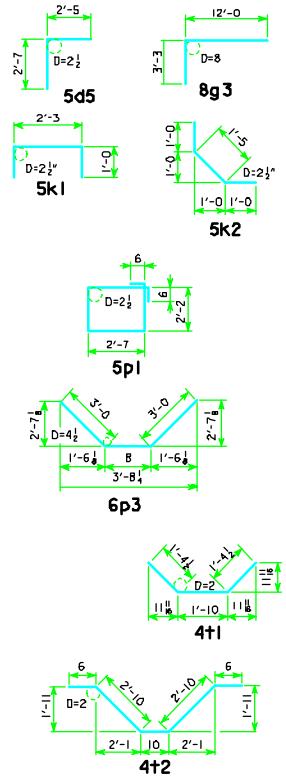
BAR	LOCATION	SHAPE	160'-0 NO.	160'-0 LENGTH	160'-0 WEIGHT	180'-0 NO.	180'-0 LENGTH	180'-0 WEIGHT	200'-0 NO.	200'-0 LENGTH	200'-0 WEIGHT	220'-0 NO.	220'-0 LENGTH	220'-0 WEIGHT	240'-0 NO.	240'-0 LENGTH	240'-0 WEIGHT	260'-0 NO.	260'-0 LENGTH	260'-0 WEIGHT	280'-0 NO.	280'-0 LENGTH	280'-0 WEIGHT	300'-0 NO.	300'-0 LENGTH	300'-0 WEIGHT
6a1	SLAB TRANSVERSE, TOP & BOTTOM		391	42'-10	25,156	439	42'-10	28,244	487	42'-10	31,332	535	42'-10	34,420	583	42'-10	37,508	631	42'-10	40,596	679	42'-10	43,684	727	42'-10	46,773
6b1	SLAB LONGITUDINAL TOP & BOTTOM		485	34'-5	25,072	485	38'-5	27,986	582	35'-9	31,252	582	39'-1	34,166	679	36'-8	37,395	679	39'-7	40,370	776	37'-5	43,612	776	39'-11	46,525
5d5	ABUTMENT DIAPHRAGM, LONGITUDINAL - END		16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84
5d6	ABUTMENT DIAPHRAGM LONGITUDINAL - B.F.		16	22'-6	376	16	22'-6	376	16	22'-6	376	16	22'-6	376	16	22'-6	376	16	22'-6	376	16	22'-6	376	16	22'-6	376
5d7	PAVING NOTCH, LONGITUDINAL		8	20'-1	168	8	20'-1	168	8	20'-1	168	8	20'-1	168	8	20'-1	168	8	20'-1	168	8	20'-1	168	8	20'-1	168
8f1	ABUTMENT FOOTING LONGITUDINAL - B.F.		16	23'-10	1019	16	23'-10	1019	16	23'-10	1019	16	23'-10	1019	16	23'-10	1019	16	23'-10	1019	16	23'-10	1019	16	23'-10	1019
8g1	ABUTMENT VERTICAL - B.F.		74	6'-5	1268	74	6'-5	1268	74	6'-8	1318	74	7'-1	1400	74	7'-2	1416	74	7'-2	1416	74	7'-2	1416	74	7'-2	1416
8g3	ABUTMENT DIAPHRAGM VERTICAL - B.F.		62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525
5j1	TOP OF SLAB AT RAIL		390	6'-3	2543	438	6'-3	2856	486	6'-3	3169	534	6'-3	3482	582	6'-3	3794	630	6'-3	4107	678	6'-3	4420	726	6'-3	4733
5k1	PAVING NOTCH, TRANSVERSE		66	4'-3	293	66	4'-3	293	66	4'-3	293	66	4'-3	293	66	4'-3	293	66	4'-3	293	66	4'-3	293	66	4'-3	293
5k2	PAVING NOTCH, TRANSVERSE		66	3'-5	235	66	3'-5	235	66	3'-5	235	66	3'-5	235	66	3'-5	235	66	3'-5	235	66	3'-5	235	66	3'-5	235
5p1	ABUTMENT HOOPS		152	10'-6	1665	152	10'-6	1665	148	10'-6	1621	148	10'-6	1621	148	10'-6	1621	148	10'-6	1621	136	10'-6	1490	136	10'-6	1490
6p3	ABUTMENT BOTTOM OF PILES		28	6'-8	280	28	6'-8	280	32	6'-8	320	32	6'-8	320	32	6'-8	320	32	6'-8	320	36	6'-8	360	36	6'-8	360
4t2	ABUTMENT DIAPHRAGM, LONGITUDINAL F.F.		36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181	36	7'-6	181
	SEE BARRIER RAIL SHEET RS40-BR3-04				8935			9843			10,717			11,630			12,511			13,422			14,294			15,210
	REINFORCING STEEL - EPOXY COATED (LB)		TOTAL (LB)		69,800	TOTAL (LB)		77,023	TOTAL (LB)		84,610	TOTAL (LB)		91,920	TOTAL (LB)		99,446	TOTAL (LB)		106,733	TOTAL (LB)		114,157	TOTAL (LB)		121,388

NON-EPOXY COATED REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BAR	LOCATION	SHAPE	160'-0 NO.	160'-0 LENGTH	160'-0 WEIGHT	180'-0 NO.	180'-0 LENGTH	180'-0 WEIGHT	200'-0 NO.	200'-0 LENGTH	200'-0 WEIGHT	220'-0 NO.	220'-0 LENGTH	220'-0 WEIGHT	240'-0 NO.	240'-0 LENGTH	240'-0 WEIGHT	260'-0 NO.	260'-0 LENGTH	260'-0 WEIGHT	280'-0 NO.	280'-0 LENGTH	280'-0 WEIGHT	300'-0 NO.	300'-0 LENGTH	300'-0 WEIGHT
5d2	ABUTMENT DIAPHRAM, LONGITUDINAL		16	20'-9	347	16	20'-9	347	16	20'-9	347	16	20'-9	347	16	20'-9	347	16	20'-9	347	16	20'-9	347	16	20'-9	347
8f2	ABUTMENT FOOTING LONGITUDINAL - F.F.		20	23'-5	1251	20	23'-5	1251	20	23'-5	1251	20	23'-5	1251	20	23'-5	1251	20	23'-5	1251	20	23'-5	1251	20	23'-5	1251
8g2	ABUTMENT VERTICAL - F.F.		62	5'-4	883	62	5'-5	897	62	5'-8	939	62	6'-1	1008	62	6'-1	1008	62	6'-2	1021	62	6'-2	1021	62	6'-2	1021
5h1	WING HORIZONTAL		56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390	56	6'-8	390
5h2	ABUTMENT TO WING ANCHOR		56	4'-0	234	56	4'-0	234	56	4'-0	234	56	4'-0	234	56	4'-0	234	56	4'-0	234	56	4'-0	234	56	4'-0	234
5s1	WING, VERTICAL		56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263	56	VARIES	263
4t1	UNDER BEAMS AT ABUTMENTS		12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37
	PILE SPIRAL - NO. 2 BAR		14	38'-6	90	14	38'-6	90	16	38'-6	104	16	38'-6	104	16	38'-6	104	16	38'-6	104	18	38'-6	116	18	38'-6	116
	SPIRAL SPACER L $\frac{7}{8}$ x $\frac{7}{8}$ x $\frac{1}{8}$ x 0.70		28	1'-10	37	28	1'-10	37	32	1'-10	42	32	1'-10	42	36	1'-10	42	32	1'-10	42	36	1'-10	47	36	1'-10	47
	REINFORCING STEEL - NON-EPOXY COATED (LB)		TOTAL (LB)		3532	TOTAL (LB)		3546	TOTAL (LB)		3606	TOTAL (LB)		3675	TOTAL (LB)		3675	TOTAL (LB)		3688	TOTAL (LB)		3706	TOTAL (LB)		3706

BENT BAR DETAILS



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

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

FEBRUARY, 2004

DECK AND ABUTMENT REINFORCEMENT 0° SKEW

RS40-SA5-04