EPOXY COATED REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BRIDGE LENGTH

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		373	42'-10	23,998	421	42'-10	27,086	469	42'-10	30,174	517	42'-10	33,262	565	42'-10	36,350	613	42'-10	39,438	661	42'-10	42,526	709	42'-10	45,614
6a2	SLAB TRANSVERSE, TOP-ENDS		16	VARIES	528	16	VARIES	528	16	VARIES	528	16	VARIES	528	16	VARIES	528	16	VARIES	528	16	VARIES	528	16	VARIES	528
6a3	SLAB TRANSVERSE, BOTTOM-ENDS		18	VARIES	594	18	VARIES	594	18	VARIES	594	18	VARIES	594	18	VARIES	594	18	VARIES	594	18	VARIES	594	18	VARIES	594
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'-9	37,480	679	39'-7	40,370	776	37'-5	43,612	776	39'-11	46,525
5d2	ABUTMENT DIAPHRAGM, LONGITUDINAL		16	21'-5	357	16	21'-5	357	16	21'-5	357	16	21'-5	357	16	21'-5	357	16	21'-5	357	16	21'-5	357	16	21'-5	357
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'-10	382	16	22'-10	382	16	22'-10	382	16	22'-10	382	16	22'-10	382	16	22'-10	382	16	22'-10	382	16	22'-10	382
5d7	PAVING NOTCH, LONGITUDINAL		8	21'-10	182	8	21'-10	182	8	21'-10	182	8	21'-10	182	8	21'-10	182	8	21'-10	182	8	21'-10	182	8	21'-10	182
8f1	ABUTMENT FOOTING LONGITUDINAL - B.F.		36	24'-2	2323	36	24'-2	2323	36	24'-2	2323	36	24'-2	2323	36	24'-2	2323	36	24'-2	2323	36	24'-2	2323	36	24'-2	2323
8g1	ABUTMENT VERTICAL - B.F.		136	6'-5	2330	136	6'-5	2330	136	6'-8	2421	136	7'-1	2572	136	7'-2	2602	136	7'-2	2602	136	7'-2	2602	136	7'-2	2602
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
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'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273
5j1	TOP OF SLAB AT RAIL		386	6'-3	2517	434	6'-3	2830	482	6'-3	3143	530	6'-3	3455	578	6'-3	3768	626	6'-3	4081	674	6'-3	4394	722	6'-3	4707
5k1	PAVING NOTCH, TRANSVERSE		64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284	64	4'-3	284
5k2	PAVING NOTCH, TRANSVERSE		64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228	64	3'-5	228
5p1	ABUTMENT HOOPS		144	10'-6	1578	144	10'-6	1578	140	10'-6	1534	140	10'-6	1534	140	10'-6	1534	140	10'-6	1534	128	10'-6	1402	128	10'-6	1402
5p2	ABUTMENT HOOPS AT ENDS		8	10'-8	90	8	10'-8	90	8	10'-8	90	8	10'-8	90	8	10'-8	90	8	10'-8	90	8	10'-8	90	8	10'-8	90
6p3	ABUTMENT BOTTOM AT 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
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
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 RS40-71-04				8,915			9,823			10,697			11,610			12,491			13,402			14,274			15,190
	REINFORCING STEEL - EPOXY COATED (LB)		TOTAL (LB)		73,411	TOTAL (LB)		80,634	TOTAL (LB)		88,262	TOTAL (LB)		95,640	TOTAL (LB)		103,266	TOTAL (LB)		110,468	TOTAL (LB)		117,891	TOTAL (LB)		125,121

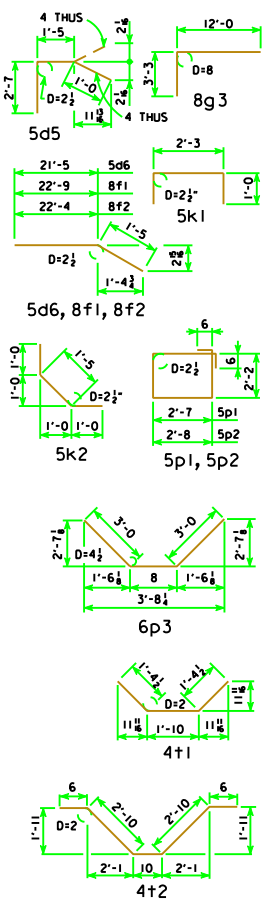
NON-EPOXY COATED REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BRIDGE LENGTH

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
	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$\frac{1}{8}$x$\frac{1}{8}$x 0.70		28	1'-10	37	28	1'-10	37	32	1'-10	42	32	1'-10	42	32	1'-10	42	32	1'-10	42	36	1'-10	47	36	1'-10	47
	REINFORCING STEEL - NON-EPOXY COATED (LB)		TOTAL (LB)		127	TOTAL (LB)		127	TOTAL (LB)		146	TOTAL (LB)		146	TOTAL (LB)		146	TOTAL (LB)		146	TOTAL (LB)		163	TOTAL (LB)		163

BENT BAR DETAILS



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

REVISION - 03-07 - UPDATED QUANTITIES FOR REINFORCING AND EPOXY COATED REINFORCING STEEL.

03-07
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 10° SKEW

RS40-35-04