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
6a1	SLAB TRANSVERSE, TOP & BOTTOM		355	42'-10	22,840	404	42'-10	25,928	451	42'-10	29,016	499	42'-10	32,104
6a2	SLAB TRANSVERSE, TOP-ENDS		34	VARIES	1116	34	VARIES	1116	34	VARIES	1116	34	VARIES	1116
6a3	SLAB TRANSVERSE, BOTTOM-ENDS		36	VARIES	1181	36	VARIES	1181	36	VARIES	1181	36	VARIES	1181
6b1	SLAB LONGITUDINAL TOP & BOTTOM		485	34'-6	25,133	485	38'-6	28,047	582	35'-10	31,325	582	39'-2	34,239
5d5	ABUTMENT DIAPHRAGM, LONGITUDINAL - END		16	5'-0	84	16	5'-0	84	16	5'-0	84	16	5'-0	84
5d6	ABUTMENT DIAPHRAGM LONGITUDINAL - B.F.		16	23'-10	398	16	23'-10	398	16	23'-10	398	16	23'-10	398
5d7	PAVING NOTCH, LONGITUDINAL		8	21'-2	177	8	21'-2	177	8	21'-2	177	8	21'-2	177
8f1	ABUTMENT FOOTING LONGITUDINAL - B.F.		16	25'-1	1072	16	25'-1	1072	16	25'-1	1072	16	25'-1	1072
8g1	ABUTMENT VERTICAL - B.F.		74	6'-5	1268	74	6'-5	1268	74	6'-8	1318	74	7'-1	1400
8g3	ABUTMENT DIAPHRAGM VERTICAL - B.F.		62	15'-3	2525	62	15'-3	2525	62	15'-3	2525	62	15'-3	2525
5j1	TOP OF SLAB AT RAIL		384	6'-3	2504	432	6'-3	2817	480	6'-3	3129	528	6'-3	3442
5k1	PAVING NOTCH, TRANSVERSE		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
5p1	ABUTMENT HOOPS		144	10'-6	1578	144	10'-6	1578	140	10'-6	1534	140	10'-6	1534
5p2	ABUTMENT HOOPS AT ENDS		8	11'-0	92	8	11'-0	92	8	11'-0	92	8	11'-0	92
6p3	ABUTMENT BOTTOM AT PILES		28	6'-8	280	28	6'-8	280	32	6'-8	320	32	6'-8	320
4t2	ABUTMENT DIAPHRAGM, LONGITUDINAL F.F.		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
	REINFORCING STEEL - EPOXY COATED (LB)		TOTAL (LB)		69,876	TOTAL (LB)		77,099	TOTAL (LB)		84,697	TOTAL (LB)		92,007

BAR	LOCATION	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	547	42'-10	35,192	595	42'-10	38,280	643	42'-10	41,368	691	42'-10	44,456
6a2	SLAB TRANSVERSE, TOP-ENDS	34	VARIES	1116	34	VARIES	1116	34	VARIES	1116	34	VARIES	1116
6a3	SLAB TRANSVERSE, BOTTOM-ENDS	36	VARIES	1181	36	VARIES	1181	36	VARIES	1181	36	VARIES	1181
6b1	SLAB LONGITUDINAL TOP & BOTTOM	679	36'-9	37,480	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
5d6	ABUTMENT DIAPHRAGM LONGITUDINAL - B.F.	16	23'-10	398	16	23'-10	398	16	23'-10	398	16	23'-10	398
5d7	PAVING NOTCH, LONGITUDINAL	8	21'-2	177	8	21'-2	177	8	21'-2	177	8	21'-2	177
8f1	ABUTMENT FOOTING LONGITUDINAL - B.F.	16	25'-1	1072	16	25'-1	1072	16	25'-1	1072	16	25'-1	1072
8g1	ABUTMENT VERTICAL - B.F.	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
5j1	TOP OF SLAB AT RAIL	576	6'-3	3755	624	6'-3	4068	672	6'-3	4381	720	6'-3	4694
5k1	PAVING NOTCH, TRANSVERSE	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
5p1	ABUTMENT HOOPS	140	10'-6	1534	128	10'-6	1402	128	10'-6	1402	128	10'-6	1402
5p2	ABUTMENT HOOPS AT ENDS	8	11'-0	92	8	11'-0	92	8	11'-0	92	8	11'-0	92
6p3	ABUTMENT BOTTOM AT PILES	32	6'-8	320	36	6'-8	360	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
	SEE BARRIER RAIL SHEET RS40-BR3-04			12,511			13,422			14,294			15,210
	REINFORCING STEEL - EPOXY COATED (LB)	TOTAL (LB)		99,546	TOTAL (LB)		106,656	TOTAL (LB)		114,171	TOTAL (LB)		121,401

NON-EPOXY COATED REINFORCING BAR LIST

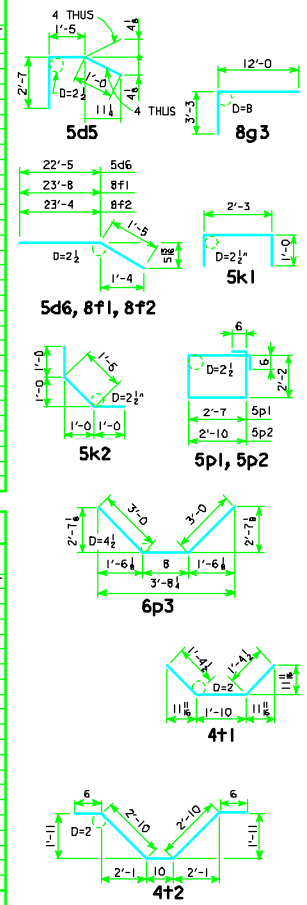
ONE SUPERSTRUCTURE AND TWO ABUTMENTS

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
5d2	ABUTMENT DIAPHRAGM, LONGITUDINAL		16	22'-0	368	16	22'-0	368	16	22'-0	368	16	22'-0	368
8f2	ABUTMENT FOOTING LONGITUDINAL - F.F.		20	24'-9	1322	20	24'-9	1322	20	24'-9	1322	20	24'-9	1322
8g2	ABUTMENT VERTICAL - F.F.		62	5'-4	883	62	5'-5	897	62	5'-8	939	62	6'-1	1008
5h1	WING HORIZONTAL		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
5s1	WING, VERTICAL		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
	PILE SPIRAL - NO. 2 BAR	SPIRAL	14	38'-6	90	14	38'-6	90	16	38'-6	104	16	38'-6	104
	SPIRAL SPACER $L\frac{7}{8}\times\frac{7}{8}\times\frac{1}{8}\times$ 0.70		28	1'-10	37	28	1'-10	37	32	1'-10	42	32	1'-10	42
	REINFORCING STEEL - NON-EPOXY COATED (LB)		TOTAL (LB)		3624	TOTAL (LB)		3638	TOTAL (LB)		3698	TOTAL (LB)		3767

BAR	LOCATION	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 DIAPHRAGM, LONGITUDINAL	16	22'-0	368	16	22'-0	368	16	22'-0	368	16	22'-0	368
8f2	ABUTMENT FOOTING LONGITUDINAL - F.F.	20	24'-9	1322	20	24'-9	1322	20	24'-9	1322	20	24'-9	1322
8g2	ABUTMENT VERTICAL - F.F.	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
5h2	ABUTMENT TO WING ANCHOR	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
4t1	UNDER BEAMS AT ABUTMENTS	12	4'-7	37	12	4'-7	37	12	4'-7	37	12	4'-7	37
	PILE SPIRAL - NO. 2 BAR	16	38'-6	104	18	38'-6	116	18	38'-6	116	18	38'-6	116
	SPIRAL SPACER $L\frac{7}{8}\times\frac{7}{8}\times\frac{1}{8}\times$ 0.70	32	1'-10	42	36	1'-10	47	36	1'-10	47	36	1'-10	47
	REINFORCING STEEL - NON-EPOXY COATED (LB)	TOTAL (LB)		3767	TOTAL (LB)		3798	TOTAL (LB)		3798	TOTAL (LB)		3798

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 20° SKEW

RS40-SA7-04