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		337	42'-10	21,682	385	42'-10	24,770	433	42'-10	27,858	481	42'-10	30,946	529	42'-10	34,044	577	42'-10	37,122	625	42'-10	40,210	673	42'-10	43,298
6a2	SLAB TRANSVERSE, TOP-ENDS		54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717	54	VARIES	1717
6a3	SLAB TRANSVERSE, BOTTOM-ENDS		54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775	54	VARIES	1775
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	679	36'-9	37,480	679	39'-8	40,455	776	37'-6	43,709	776	40'-0	46,623
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	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429	16	25'-8	429
5d7	PAVING NOTCH, LONGITUDINAL		8	23'-0	192	8	23'-0	192	8	23'-0	192	8	23'-0	192	8	23'-0	192	8	23'-0	192	8	23'-0	192	8	23'-0	192
8f1	ABUTMENT FOOTING LONGITUDINAL - B.F.		16	26'-11	1150	16	26'-11	1150	16	26'-11	1150	16	26'-11	1150	16	26'-11	1150	16	26'-11	1150	16	26'-11	1150	16	26'-11	1150
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		384	6'-3	2504	432	6'-3	2817	480	6'-3	3129	528	6'-3	3442	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	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	140	10'-6	1534	140	10'-6	1534	140	10'-6	1534	140	10'-6	1534	128	10'-6	1402	128	10'-6	1402	128	10'-6	1402
5p2	ABUTMENT HOOPS AT ENDS		8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95	8	11'-4	95
6p3	ABUTMENT BOTTOM AT PILES		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	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)		70,040	TOTAL (LB)		77,259	TOTAL (LB)		84,861	TOTAL (LB)		92,171	TOTAL (LB)		99,710	TOTAL (LB)		106,905	TOTAL (LB)		114,432	TOTAL (LB)		121,663

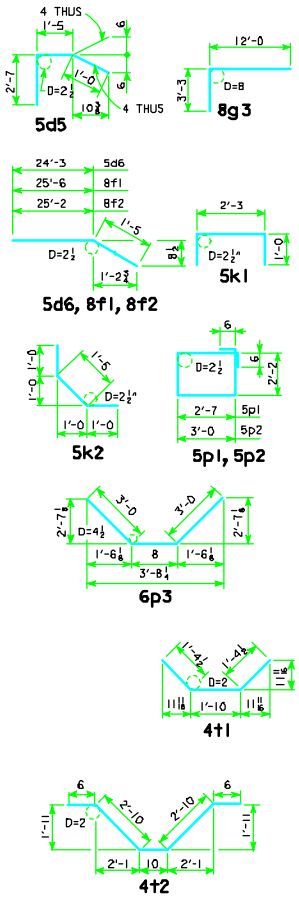
NON-EPOXY COATED REINFORCING BAR LIST

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
5d2	ABUTMENT DIAPHRAGM, LONGITUDINAL		16	23'-10	398	16	23'-10	398	16	23'-10	398	16	23'-10	398	16	23'-10	398	16	23'-10	398	16	23'-10	398	16	23'-10	398
8f2	ABUTMENT FOOTING LONGITUDINAL - F.F.		20	26'-7	1420	20	26'-7	1420	20	26'-7	1420	20	26'-7	1420	20	26'-7	1420	20	26'-7	1420	20	26'-7	1420	20	26'-7	1420
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	16	38'-6	104	16	38'-6	104	16	38'-6	104	16	38'-6	104	18	38'-6	116	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	32	1'-10	42	32	1'-10	42	32	1'-10	42	32	1'-10	42	36	1'-10	47	36	1'-10	47	36	1'-10	47
	REINFORCING STEEL - NON-EPOXY COATED (LB)		TOTAL (LB)		3752	TOTAL (LB)		3784	TOTAL (LB)		3826	TOTAL (LB)		3895	TOTAL (LB)		3895	TOTAL (LB)		3926	TOTAL (LB)		3926	TOTAL (LB)		3926

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 30° SKEW

RS40-SA8-04