REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BRIDGE LENGTH

BAR	LOCATION	SHAPE	46'-8 LXA NO.	46'-8 LXA LENGTH	46'-8 LXA WEIGHT	55'-0 LXA NO.	55'-0 LXA LENGTH	55'-0 LXA WEIGHT	67'-6 LXB NO.	67'-6 LXB LENGTH	67'-6 LXB WEIGHT	80'-0 LXC NO.	80'-0 LXC LENGTH	80'-0 LXC WEIGHT	90'-0 LXD NO.	90'-0 LXD LENGTH	90'-0 LXD WEIGHT	100'-0 LXD NO.	100'-0 LXD LENGTH	100'-0 LXD WEIGHT	110'-0 LXD NO.	110'-0 LXD LENGTH	110'-0 LXD WEIGHT
6o1	SLAB TRANSVERSE, TOP & BOTTOM		115	26'-10	4635	137	26'-10	5522	171	26'-10	6892	203	26'-10	8182	231	26'-10	9311	257	26'-10	10,359	283	26'-10	11,406
6o2	SLAB TRANSVERSE END, TOP		16	*	335	16	*	335	16	*	335	16	*	335	16	*	335	16	*	335	16	*	335
6o3	SLAB TRANSVERSE END, BOTTOM		16	**	369	16	**	369	16	**	369	16	**	369	16	**	369	16	**	369	16	**	369
5b1	SLAB LONGITUDINAL TOP & BOTTOM		134	25'-9	3599	134	29'-11	4182	134	36'-2	5055	201	29'-0	6080	201	32'-4	6779	201	35'-8	7478	201	39'-0	8177
5d2	ABUTMENT DIAPHRAM, LONGITUDINAL		18	6'-4	119	18	6'-1	115	18	6'-1	115	18	6'-1	115	18	6'-3	118	18	6'-3	118	18	6'-3	118
5d3	ABUTMENT DIAPHRAM, LONGITUDINAL		6	5'-5	34	6	5'-2	33	6	5'-2	33	6	5'-2	33	6	5'-0	32	6	5'-0	32	6	5'-0	32
5d5	ABUTMENT DIAPHRAGM, LONGITUDINAL - END		12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63
5d6	ABUTMENT DIAPHRAGM LONGITUDINAL - B.F.		8	27'-8	231	8	27'-8	231	8	27'-8	231	8	27'-8	231	8	27'-8	231	8	27'-8	231	8	27'-8	231
5d7	PAVING NOTCH, LONGITUDINAL		4	23'-5	98	4	23'-5	98	4	23'-5	98	4	27'-8	116	4	27'-8	116	4	27'-8	116	4	27'-8	116
5d8	ABUTMENT DIAPH. WING EXT. LONGIT.		-	-	-	-	-	-	-	-	-	48	10'-6	526	48	10'-6	526	48	10'-6	526	48	10'-6	526
8f1	ABUTMENT FOOTING LONGITUDINAL - B.F.		8	27'-10	595	8	27'-10	595	8	27'-10	595	8	27'-10	595	8	27'-10	595	8	27'-10	595	8	27'-10	595
8f2	ABUTMENT FOOTING LONGITUDINAL - F.F.		10	27'-10	744	10	27'-10	744	10	27'-10	744	10	27'-10	744	10	27'-10	744	10	27'-10	744	10	27'-10	744
8f3	ABUTMENT EXTENSION LONGITUDINAL		-	-	-	-	-	-	-	-	-	16	10'-2	435	16	10'-2	435	16	10'-2	435	16	10'-2	435
8f4	ABUTMENT EXTENSION LONGITUDINAL		-	-	-	-	-	-	-	-	-	16	9'-0	385	16	9'-0	385	16	9'-0	385	16	9'-0	385
8g1	ABUTMENT VERTICAL - B.F.		50	6'-7	879	50	6'-7	879	50	7'-2	957	46	7'-8	942	46	8'-5	1034	46	8'-5	1034	46	8'-5	1034
8g2	ABUTMENT VERTICAL - F.F.		42	5'-6	617	42	5'-6	617	42	6'-1	683	42	6'-7	739	42	7'-4	823	42	7'-4	823	42	7'-4	823
8g3	ABUTMENT DIAPHRAGM VERTICAL - B.F.		38	15'-3	1548	38	15'-3	1548	38	15'-3	1548	38	15'-9	1598	38	15'-9	1598	38	15'-9	1598	38	15'-9	1598
6g4	ABUT. DIAPH. WING EXT. VERT.		-	-	-	-	-	-	-	-	-	40	5'-8	341	40	6'-5	386	40	6'-5	386	40	6'-5	386
5j1	SLAB TRANSV. TOP AT RAIL		128	6'-3	835	150	6'-3	978	184	6'-3	1200	216	6'-3	1409	244	6'-3	1591	270	6'-3	1761	296	6'-3	1930
5h1	ABUT. 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
5h2	ABUTMENT TO WING ANCHOR		56	4'-0	234	56	4'-0	234	56	4'-0	234	8	4'-0	34	8	4'-0	34	8	4'-0	34	8	4'-0	34
5k1	PAVING NOTCH, TRANSVERSE		42	4'-11	216	42	4'-11	216	42	4'-11	216	42	4'-11	216	42	4'-11	216	42	4'-11	216	42	4'-11	216
5k2	PAVING NOTCH, TRANSVERSE		42	3'-5	150	42	3'-5	150	42	3'-5	150	42	3'-5	150	42	3'-5	150	42	3'-5	150	42	3'-5	150
5p1	ABUTMENT HOOPS		96	10'-6	1052	80	10'-6	877	96	10'-6	1052	96	10'-6	1052	84	10'-6	920	84	10'-6	920	96	10'-6	1052
5p2	ABUTMENT EXT.HOOPS		-	-	-	-	-	-	-	-	-	24	10'-8	268	24	10'-8	268	24	10'-8	268	24	10'-8	268
6p3	ABUT. BOTT. AT PILES		-	-	-	-	-	-	-	-	-	28	6'-8	281	32	6'-8	321	32	6'-8	321	36	6'-8	361
5p4	ABUTMENT HOOPS AT ENDS		8	10'-9	90	8	10'-9	90	8	10'-9	90	8	10'-9	90	8	10'-9	90	8	10'-9	90	8	10'-9	90
5r1	PAVING BLOCK LIFTING HOOPS		8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24
5s1	WING, VERTICAL		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		8	4'-8	25	8	4'-8	25	8	4'-8	25	8	4'-8	25	8	4'-10	26	8	4'-10	26	8	4'-10	26
	PILE SPIRAL - NO. 2 BAR		10	38'-6	64	12	38'-6	77	14	38'-6	90	18	38'-6	116	20	38'-6	128	20	38'-6	128	22	38'-6	141
	SPIRAL SPACER L $\frac{7}{8}\times\frac{7}{8}\times\frac{1}{8}\times$ 0.70		20	1'-10	26	24	1'-10	32	28	1'-10	37	36	1'-10	47	40	1'-10	52	40	1'-10	52	44	1'-10	58
	REINFORCING STEEL (LBS.)				17,235			18,687			21,489			26,194			28,353			30,270			32,376
	SEE BARRIER RAIL DETAILS (LBS.)				3870			4226			4784			5809			6245			6682			7160
	SEE OPEN RAIL DETAILS (LBS.)				4215			4734			5444			7095			7691			8240			8752

* VARIES FROM 4'-1 TO 23'-8 ** VARIES FROM 5'-6 TO 25'-1

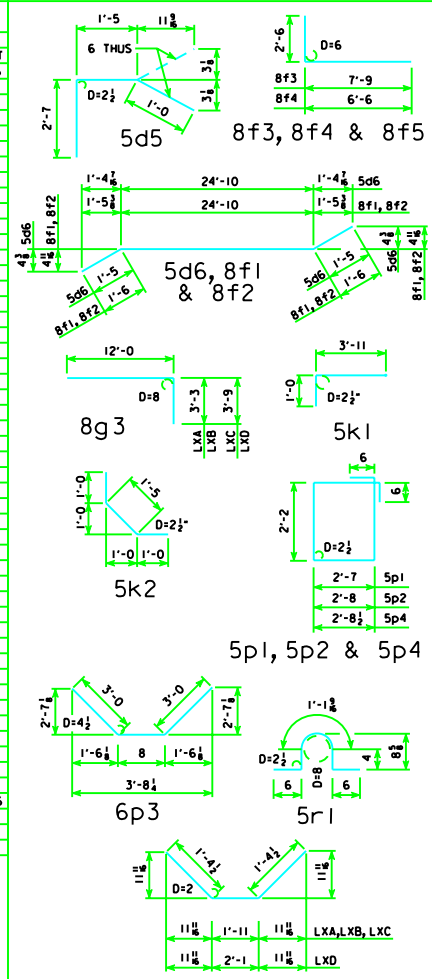
CONCRETE PLACEMENT QUANTITIES
(SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)

			46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
SLAB, AND ABUT. DIAPHRAGM	WITH BARRIER RAIL	CU.YD.	56.0	61.6	73.5	90.8	103.7	111.0	118.2
	WITH OPEN RAIL	CU.YD.	57.6	63.4	75.7	93.4	106.6	114.2	121.7
PAVING BLOCKS		CU.YD.	1.2	1.2	1.2	1.2	1.2	1.2	1.2
ABUTMENT WINGS		CU.YD.	6.9	6.9	6.9	6.9	6.9	6.9	6.9
ABUTMENT FOOTINGS		CU.YD.	22.5	22.5	22.5	30.2	30.2	30.2	30.2

ESTIMATED QUANTITIES
(SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)

			46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
NO. OF STEEL H-PILES FOR TWO ABUTS. (HP10X42)		NO.	10	12	14	18	20	20	22
STRUCTURAL CONCRETE, (BRIDGE)	WITH BARRIER RAIL	CU.YD.	86.6	92.2	104.1	129.1	142.0	149.3	156.5
	WITH OPEN RAIL	CU.YD.	88.2	94.0	106.3	131.7	144.9	152.5	160.0
CONCRETE RAIL (BARRIER OR OPEN)		L.F.	127.5	144.2	169.2	214.2	234.2	254.2	274.2
REINFORCING STEEL	WITH BARRIER RAIL	LBS.	21,105	22,913	26,273	32,003	34,598	36,952	39,536
	WITH OPEN RAIL	LBS.	21,450	23,421	26,933	33,289	36,044	38,510	41,128
STRUCTURAL STEEL	WITH BARRIER RAIL	LBS.	1221	1217	1261	1301	1380	1380	1380
	WITH OPEN RAIL	LBS.	937	933	933	933	956	956	956

BENT BAR DETAILS



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

LATEST REVISION DATE :

APPROVED BY

STANDARD DESIGN - 24' ROADWAY, SINGLE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

JANUARY, 2005 HS20-44 LOADING

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DECK & ABUTMENT REINF. 15° SKEW

H24S1-14-05