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
6a1	SLAB TRANSVERSE, TOP & BOTTOM		131	26'-10	5280	153	26'-10	6167	187	26'-10	7537	221	26'-10	8908	247	26'-10	9956	273	26'-10	11,003	301	26'-10	12,132
5b1	SLAB LONGITUDINAL TOP & BOTTOM		134	25'-9	3599	134	29'-10	4170	134	36'-1	5044	201	28'-11	6063	201	32'-3	6761	201	35'-7	7460	201	38'-11	8159
5d2	ABUTMENT DIAPHRAM, LONGITUDINAL		18	6'-2	116	18	5'-11	112	18	5'-11	112	18	5'-11	112	18	6'-1	115	18	6'-1	115	18	6'-1	115
5d3	ABUTMENT DIAPHRAM, LONGITUDINAL		6	5'-3	33	6	5'-0	32	6	5'-0	32	6	5'-0	32	6	4'-10	31	6	4'-10	31	6	4'-10	31
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	26'-9	224	8	26'-9	224	8	26'-9	224	8	26'-9	224	8	26'-9	224	8	26'-9	224	8	26'-9	224
5d7	PAVING NOTCH, LONGITUDINAL		4	22'-6	94	4	22'-6	94	4	22'-6	94	4	26'-8	112	4	26'-8	112	4	26'-8	112	4	26'-8	112
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	26'-11	575	8	26'-11	575	8	26'-11	575	8	26'-11	575	8	26'-11	575	8	26'-11	575	8	26'-11	575
8f2	ABUTMENT FOOTING LONGITUDINAL - F.F.		10	26'-11	719	10	26'-11	719	10	26'-11	719	10	26'-11	719	10	26'-11	719	10	26'-11	719	10	26'-11	719
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	8'-8	371	16	8'-8	371	16	8'-8	371	16	8'-8	371
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		130	6'-3	848	152	6'-3	991	186	6'-3	1213	220	6'-3	1435	246	6'-3	1604	272	6'-3	1774	300	6'-3	1956
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		88	10'-6	964	88	10'-6	964	80	10'-6	877	80	10'-6	877	92	10'-6	1008	92	10'-6	1008	72	10'-6	789
5p2	ABUT. 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
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.)				16,951			18,566			21,107			25,886			28,213			30,129			31,979
	SEE BARRIER RAIL DETAILS (LBS.)				3870			4226			4784			5809			6245			6682			7160
	SEE OPEN RAIL DETAILS (LBS.)				4215			4734			5444			7095			7691			8240			8752

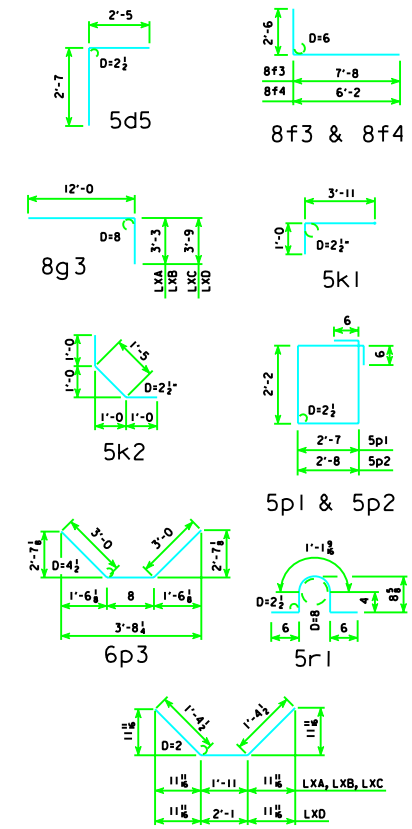
CONCRETE PLACEMENT QUANTITIES
(SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)

			46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
SLAB, AND ABUT. DIAPHRAGM	WITH BARRIER RAIL	CU.YD.	55.1	60.8	72.5	89.7	102.4	109.7	116.9
	WITH OPEN RAIL	CU.YD.	56.7	62.6	74.7	92.3	105.3	113.0	120.5
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.	21.7	21.7	21.7	29.5	29.5	29.5	29.5

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 ABUTMENTS (HP10X42)		NO.	10	12	14	18	20	20	22
STRUCTURAL CONCRETE, (BRIDGE)	WITH BARRIER RAIL	CU.YD.	84.9	90.6	102.3	127.3	140.0	147.3	154.5
	WITH OPEN RAIL	CU.YD.	86.5	92.4	104.5	129.9	142.9	150.6	158.1
CONCRETE RAIL (BARRIER OR OPEN)		L.F.	127.3	144.0	169.0	214.0	234.0	254.0	274.0
REINFORCING STEEL	WITH BARRIER RAIL	LBS.	20,821	22,792	25,891	31,695	34,458	36,811	39,139
	WITH OPEN RAIL	LBS.	21,166	23,300	26,551	32,981	35,904	38,369	40,731
STRUCTURAL STEEL	WITH BARRIER RAIL	LBS.	1186	1180	1224	1264	1344	1344	1344
	WITH OPEN RAIL	LBS.	902	896	896	896	920	920	920

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. 0° SKEW

H24S1-08-05