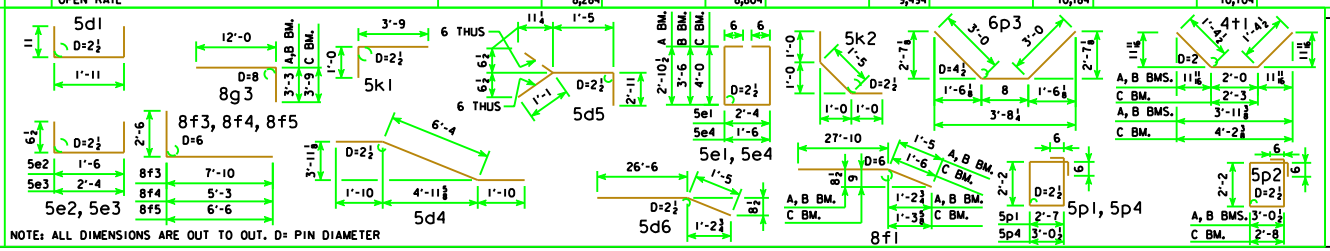
EPOXY COATED REINFORCING

REINFORCING BAR LIST

ONE SUPERSTRUCTURE AND TWO ABUTMENTS

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
	℄-℄ ABUT. BRG.		138'-10			151'-4			163'-10			176'-4			188'-10			201'-4			213'-10			226'-4			243'-0		
	℄-℄ BEAM BRG.		42'-6	50'-10	42'-6	46'-8	55'-0	46'-8	50'-10	59'-2	50'-10	55'-0	63'-4	55'-0	59'-2	67'-6	59'-2	63'-4	71'-8	63'-4	67'-6	75'-10	67'-6	71'-8	80'-0	71'-8	80'-0	80'-0	80'-0
	BEAM SERIES		A BEAM			A BEAM			B BEAM			B BEAM			B BEAM			C BEAM			C BEAM			C BEAM			C BEAM		
6a1	SLAB TRANSV. TOP & BOTT.		279	46'-10	19,626	309	46'-10	21,736	339	46'-10	23,847	369	46'-10	25,957	399	46'-10	28,067	429	46'-10	30,177	459	46'-10	32,288	489	46'-10	34,398	529	46'-10	37,212
6a2	SLAB TRANSV. TOP ENDS		62	VARIES	2,192	62	VARIES	2,192	62	VARIES	2,192	62	VARIES	2,192	62	VARIES	2,192	62	VARIES	2,192	62	VARIES	2,192	62	VARIES	2,192	62	VARIES	2,192
6a3	SLAB TRANSV. BOTT. ENDS		60	VARIES	2,122	60	VARIES	2,122	60	VARIES	2,122	60	VARIES	2,122	60	VARIES	2,122	60	VARIES	2,122	60	VARIES	2,122	60	VARIES	2,122	60	VARIES	2,122
5b1	SLAB LONGITUDINAL, TOP & BOTT.		212	40'-0	8,845	318	40'-0	13,267	318	40'-0	13,267	318	40'-0	13,267	318	40'-0	13,267	424	40'-0	17,689	424	40'-0	17,689	424	40'-0	17,689	530	40'-0	22,112
5b2	SLAB LONGITUDINAL, TOP & BOTT., ENDS		212	34'-0	7,518	212	21'-3	4,699	212	27'-6	6,081	212	33'-9	7,463	212	40'-0	8,845	212	27'-3	6,025	212	33'-6	7,407	212	39'-9	8,789	212	29'-1	6,431
6b3	SLAB LONGITUDINAL, TOP @ PIERS		98	12'-10	1,889	98	13'-10	2,036	98	14'-10	2,183	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7b3	SLAB LONGITUDINAL, TOP @ PIERS		—	—	—	—	—	—	—	—	—	98	15'-10	3,172	98	17'-0	3,405	98	18'-0	3,606	—	—	—	—	—	—	—	—	—
8b3	SLAB LONGITUDINAL, TOP @ PIERS		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98	19'-0	4,972	98	20'-0	5,233	98	20'-0	5,233
5d1	PIER DIAPH. ENDS		12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47	12	3'-9	47
5d2	PIER & ABUT. DIAPH. LONGIT.		108	7'-1	798	108	7'-1	798	108	7'-1	798	108	7'-1	798	108	7'-1	798	108	6'-9	760	108	6'-9	760	108	6'-9	760	108	6'-9	760
5d3	PIER & ABUT. DIAPH. LONGIT.		36	6'-0	225	36	6'-0	225	36	6'-0	225	36	6'-0	225	36	6'-0	225	36	5'-9	216	36	5'-9	216	36	5'-9	216	36	5'-9	216
5d4	PIER DIAPH. LONGIT.		12	10'-0	125	12	10'-0	125	12	10'-0	125	12	10'-0	125	12	10'-0	125	12	10'-0	125	12	10'-0	125	12	10'-0	125	12	10'-0	125
5d5	ABUT. DIAPH. ENDS		12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68	12	5'-5	68
5d6	ABUT. DIAPH. LONGIT. B.F.		16	27'-11	466	16	27'-11	466	16	27'-11	466	16	27'-11	466	16	27'-11	466	16	27'-11	466	16	27'-11	466	16	27'-11	466	16	27'-11	466
5d7	PAVING NOTCH LONGIT.		8	27'-9	232	8	27'-9	232	8	27'-9	232	8	27'-9	232	8	27'-9	232	8	27'-9	232	8	27'-9	232	8	27'-9	232	8	27'-9	232
5d8	ABUT. DIAPH. WING EXT. LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48	10'-8	534	48	10'-8	534	48	10'-8	534	48	10'-8	534
5e1	PIER DIAPH. HOOPS		48	9'-1	455	48	9'-1	455	48	10'-4	517	48	10'-4	517	48	10'-4	517	48	11'-4	567	48	11'-4	567	48	11'-4	567	48	11'-4	567
5e2	PIER DIAPH. TIES ENDS		4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11	4	2'-7	11
5e3	PIER DIAPH. TIES		48	3'-5	171	48	3'-5	171	48	3'-5	171	48	3'-5	171	48	3'-5	171	48	3'-5	171	48	3'-5	171	48	3'-5	171	48	3'-5	171
5e4	PIER DIAPH. HOOPS ENDS		4	8'-3	34	4	8'-3	34	4	9'-6	40	4	9'-6	40	4	9'-6	40	4	10'-6	44	4	10'-6	44	4	10'-6	44	4	10'-6	44
8f1	ABUT. FOOTING LONGIT.		36	29'-3	2,812	36	29'-3	2,812	36	29'-3	2,812	36	29'-3	2,812	36	29'-3	2,812	36	29'-4	2,820	36	29'-4	2,820	36	29'-4	2,820	36	29'-4	2,820
8f3	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	10'-4	441	16	10'-4	441	16	10'-4	441	16	10'-4	441
8f4	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	7'-9	166	8	7'-9	166	8	7'-9	166	8	7'-9	166
8f5	ABUT. EXTENSION LONGIT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	9'-0	192	8	9'-0	192	8	9'-0	192	8	9'-0	192
8g1	ABUT. VERT.		158	6'-8	2,812	158	6'-8	2,812	158	7'-3	3,058	158	7'-3	3,058	158	7'-3	3,058	154	7'-9	3,187	154	7'-9	3,187	154	7'-9	3,187	154	7'-10	3,221
8g3	ABUT. DIAPH. VERT. B.F.		74	15'-3	3,013	74	15'-3	3,013	74	15'-3	3,013	74	15'-3	3,013	74	15'-3	3,013	74	15'-9	3,112	74	15'-9	3,112	74	15'-9	3,112	74	15'-9	3,112
6g4	ABUT. DIAPH. WING EXT. VERT.		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40	6'-6	391	40	6'-6	391	40	6'-7	396	40	6'-7	396
5h1	ABUT. WING HORIZ.		56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389	56	6'-8	389
5h2	ABUT. TO WING ANCHOR		56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	56	4'-8	273	8	4'-8	39	8	4'-8	39	8	4'-8	39	8	4'-8	39
5j1	TOP OF SLAB TRANSV. (AT RAIL)		332	6'-3	2,164	362	6'-3	2,360	392	6'-3	2,555	422	6'-3	2,751	452	6'-3	2,946	482	6'-3	3,142	512	6'-3	3,338	542	6'-3	3,533	582	6'-3	3,794
5k1	PAVING NOTCH		76	4'-9	377	76	4'-9	377	76	4'-9	377	76	4'-9	377	76	4'-9	377	76	4'-9	377	76	4'-9	377	76	4'-9	377	76	4'-9	377
5k2	PAVING NOTCH		76	3'-5	271	76	3'-5	271	76	3'-5	271	76	3'-5	271	76	3'-5	271	76	3'-5	271	76	3'-5	271	76	3'-5	271	76	3'-5	271
5p1	ABUTMENT HOOPS (WOOD/STEEL)		168/140	10'-6	1840/1533	168/140	10'-6	1840/1533	128/140	10'-6	1402/1533	128/140	10'-6	1402/1533	136/140	10'-6	1489/1533	148	10'-6	1,621	168	10'-6	1,840	168	10'-6	1,840	168	10'-6	1,840
5p2	ABUTMENT HOOPS		8	11'-5	95	8	11'-5	95	8	11'-5	95	8	11'-5	95	8	11'-5	95	24	10'-8	267	24	10'-8	267	24	10'-8	267	24	10'-8	267
6p3	ABUT. BOTT. AT PILES		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	6'-8	320	36	6'-8	360	36	6'-8	360	36	6'-8	360
5p4	ABUT. HOOPS AT ENDS		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	11'-5	95	8	11'-5	95	8	11'-5	95	8	11'-5	95
5s1	WING VERT.		56	VARIES	263	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		14	4'-9	44	14	4'-9	44	14	4'-9	44	14	4'-9	44	14	4'-9	44	14	5'-0	47	14	5'-0	47	14	5'-0	47	14	5'-0	47
#2	PILE SPIRAL (WOOD/STEEL)*		30/16	38'-6	193/103	30/16	38'-6	193/103	34/16	38'-6	219/103	34/16	38'-6	219/103	36/16	38'-6	231/103	20	38'-6	129	22	38'-6	141	22	38'-6	141	22	38'-6	141
	SPIRAL SPACERS, L 1/8"×8"×4"× 0.70 (WOOD/STL.)*		60/32	1'-10	77/41	60/32	1'-10	77/41	68/32	1'-10	87/41	68/32	1'-10	87/41	72/32	1'-10	92/41	40	1'-10	51	44	1'-10	56	44	1'-10	56	44	1'-10	56
	*EPOXY COATING NOT REQUIRED																												
	SUB TOTAL W/ WOOD PILES**				59,447			63,503			67,250			71,927			75,951			—		—			—			—
	SUB TOTAL W/ STEEL H-PILES**				59,014			63,070			67,219			71,896			75,816			82,372		87,703			91,656			96,830
	**RAIL REINFORCING NOT INCLUDED																												
	BARRIER RAIL				8,015			8,588			9,147			9,679			10,278			11,236		11,794			12,367			13,103
	OPEN RAIL				8,284			8,804			9,494			10,184			10,704			12,210		12,668			13,420			14,185

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 - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE MARCH, 2007 HS25 SUBSTRUCTURE

DECK & ABUTMENT REINF.
30° SKEW

H44-23-07