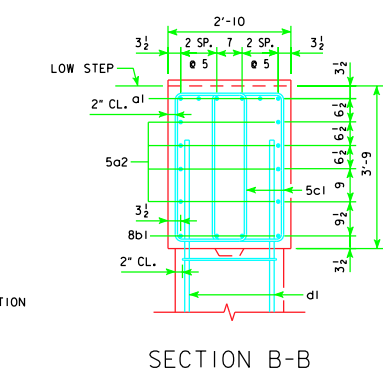


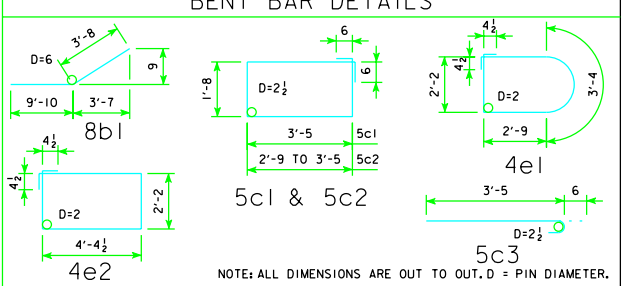
CAP

REINFORCING STEEL	138'-10		151'-4		163'-10		176'-4		188'-10		201'-4		213'-10		226'-4		243'-0		
	BAR LENGTH	SHAPE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	
a1	24'-8	6	8	395	6	8	395	6	8	395	6	8	395	6	8	395	6	8	395
5c2	24'-8	8	5	206	8	5	206	8	5	206	8	5	206	8	5	206	8	5	206
8b1	13'-6	8	8	288	8	8	288	8	8	288	8	8	288	8	8	288	8	8	288
5c1	11'-2	22	5	256	22	5	256	22	5	256	22	5	256	22	5	256	22	5	256
5c2	VARIABLES	16	5	175	16	5	175	16	5	175	16	5	175	16	5	175	16	5	175
5c3	3'-11	16	5	65	16	5	65	16	5	65	16	5	65	16	5	65	16	5	65
TOTAL (LB.)		1385		1385		1385		1385		1385		1385		1385		1537		1537	
STRUCTURAL CONCRETE (CY)		9.8		9.8		9.8		9.8		9.8		9.8		9.8		9.8		9.8	



COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL												TOTAL WEIGHT (LB.)				
			d1 BAR		4e1 BAR		4e2 BAR		4e3 BAR		4e4 BAR		4e5 BAR						
NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT
16	8'-9	13.3	44	9	11'-6	1720	18	4	11'-9	141	36	4	13'-10	333	2194				
17	9'-9	14.9	44	9	12'-6	1870	20	4	11'-9	157	40	4	13'-10	370	2397				
18	10'-9	16.4	44	9	13'-6	2020	22	4	11'-9	173	44	4	13'-10	407	2600				
19	11'-9	17.9	44	9	14'-6	2169	24	4	11'-9	188	48	4	13'-10	444	2801				
20	12'-9	19.4	44	9	15'-6	2319	26	4	11'-9	204	52	4	13'-10	481	3004				
21	13'-9	21.0	44	9	16'-6	2468	28	4	11'-9	220	56	4	13'-10	517	3205				
22	14'-9	22.5	44	9	17'-6	2618	30	4	11'-9	235	60	4	13'-10	554	3407				
23	15'-9	24.0	44	9	18'-6	2768	32	4	11'-9	251	64	4	13'-10	591	3610				
24	16'-9	25.5	44	9	19'-6	2917	34	4	11'-9	267	68	4	13'-10	628	3812				
25	17'-9	26.3	44	9	20'-0	2992	36	4	11'-9	283	72	4	13'-10	665	3940				
26	18'-3	27.8	44	9	21'-0	3142	38	4	11'-9	298	76	4	13'-10	702	4142				
27	19'-3	29.3	44	9	22'-0	3291	40	4	11'-9	314	80	4	13'-10	739	4344				
28	20'-3	30.9	44	9	23'-0	3441	42	4	11'-9	330	84	4	13'-10	776	4547				
29	21'-3	32.4	44	9	24'-0	3590	44	4	11'-9	345	88	4	13'-10	813	4748				
30	22'-3	33.9	44	9	25'-0	3740	46	4	11'-9	361	92	4	13'-10	850	4951				
31	23'-3	35.4	44	9	26'-0	3890	48	4	11'-9	377	96	4	13'-10	887	5154				
32	24'-3	37.0	44	9	27'-0	4039	50	4	11'-9	392	100	4	13'-10	924	5355				
33	25'-3	38.5	44	9	28'-0	4189	52	4	11'-9	408	104	4	13'-10	961	5558				
34	26'-3	40.0	44	9	29'-0	4338	54	4	11'-9	424	108	4	13'-10	998	5760				
35	27'-3	41.5	44	9	30'-0	4488	56	4	11'-9	440	112	4	13'-10	1035	5963				
36	28'-3	43.1	44	9	31'-0	4638	58	4	11'-9	455	116	4	13'-10	1072	6165				
37	29'-3	44.6	44	9	32'-0	4787	60	4	11'-9	471	120	4	13'-10	1109	6367				
38	30'-3	46.1	44	9	33'-0	4937	62	4	11'-9	487	124	4	13'-10	1146	6570				
39	31'-3	47.6	44	9	34'-0	5086	64	4	11'-9	502	128	4	13'-10	1183	6771				
40	32'-3	49.2	44	9	35'-0	5236	66	4	11'-9	518	132	4	13'-10	1220	6974				



PIER NOTES:  
 SEE "TEE PIER NOTES" ON H24-02-06 FOR NOTES REGARDING APPLICATION OF THESE PIER STANDARDS.  
 MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.  
 ELIMINATE 2x8 BEVELED KEYWAY ON TOP OF CAP FOR EXPANSION PIERS.  
 SEE SHEET H24-09-06 FOR "U" DIMENSION.

01-10  
 LATEST REVISION DATE

*Thomas C. McQuinn*  
 APPROVED BY BRIDGE ENGINEER

**Iowa Department of Transportation**  
**Highway Division**

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE  
**PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES**  
 DECEMBER, 2006

TEE PIER  
 CAP AND COLUMN  
 0° SKEW

H24-50-06

REVISED 01-10 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.