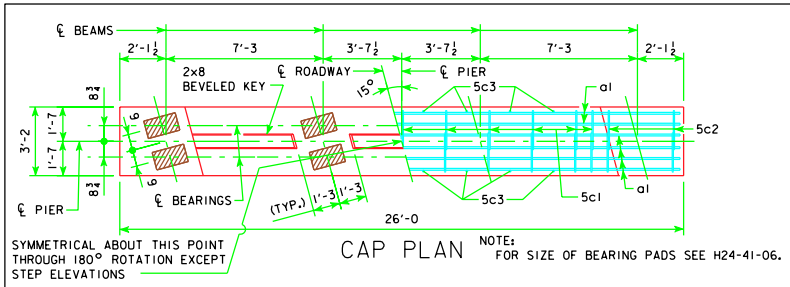
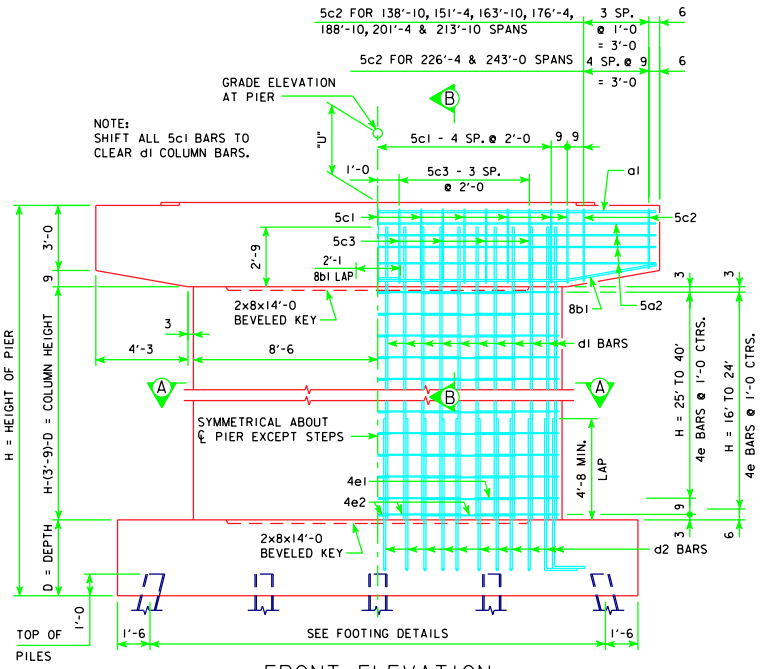
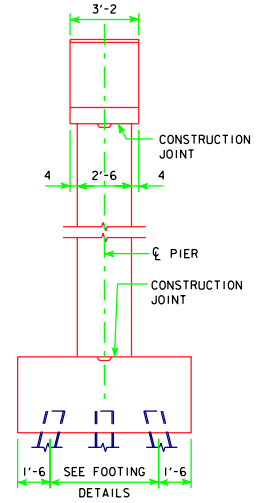


CAP PLAN

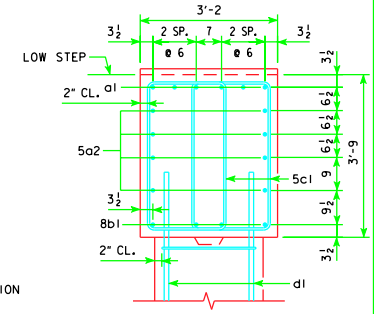
NOTE: FOR SIZE OF BEARING PADS SEE H24-41-06.



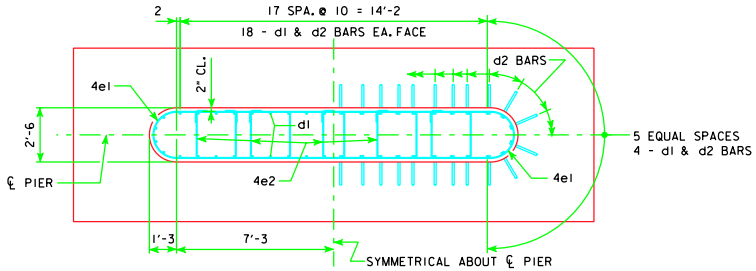
FRONT ELEVATION



END ELEVATION



SECTION B-B



SECTION A-A

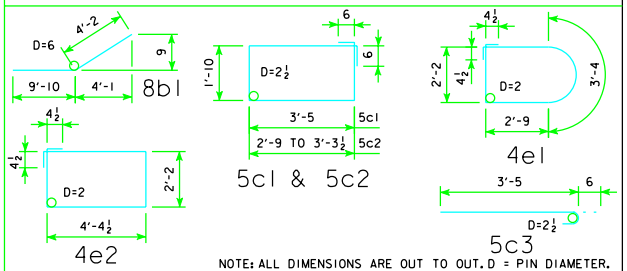
CAP

REINFORCING STEEL	℄ - ℄ ABUT. BEARINGS			138'-10			151'-4			163'-10			176'-4			188'-10			201'-4			213'-10			226'-4			243'-0		
	BAR	LENGTH	SHAPE	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
	a1	25'-8		6	9	524	6	9	524	6	9	524	6	9	524	6	9	524	6	9	524	6	9	524	6	9	524	6	9	524
	5a2	25'-8		8	5	214	8	5	214	8	5	214	8	5	214	8	5	214	8	5	214	8	5	214	8	5	214	8	5	214
	8b1	14'-0		8	8	299	8	8	299	8	8	299	8	8	299	8	8	299	8	8	299	8	8	299	8	8	299	8	8	299
	5c1	11'-6		22	5	264	22	5	264	22	5	264	22	5	264	22	5	264	22	5	264	22	5	264	22	5	264	22	5	264
	5c2	VARIES		16	5	179	16	5	179	16	5	179	16	5	179	16	5	179	16	5	179	16	5	179	20	5	223	20	5	223
	5c3	3'-11		16	5	65	16	5	65	16	5	65	16	5	65	16	5	65	16	5	65	16	5	65	16	5	65	16	5	65
①	TOTAL (LB.)			1545			1545			1545			1545			1545			1545			1545			1589			1589		
STRUCTURAL CONCRETE (CY)				11.4			11.4			11.4			11.4			11.4			11.4			11.4			11.4			11.4		

COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL: d1 BAR				4e1 BAR				4e2 BAR				TOTAL WEIGHT (LB.)
			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'-3	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

BENT BAR DETAILS



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

① SEE SHEET H24-17-06 FOR STEP REINFORCING STEEL QUANTITY AND DETAILS.

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 H24-15-06 FOR "U" DIMENSION.

01-10
LATEST REVISION DATE

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

15° SKEW

H24-57-06

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