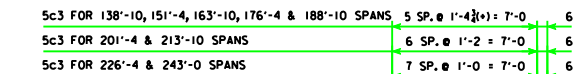
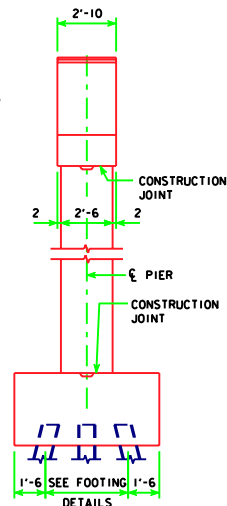


NOTE:
FOR SIZE OF BEARING PADS SEE H30-44-06.

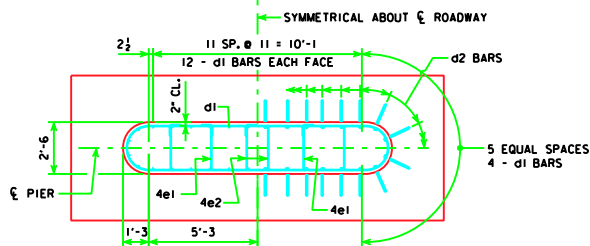


5ml & 5nl
BAR LAYOUT

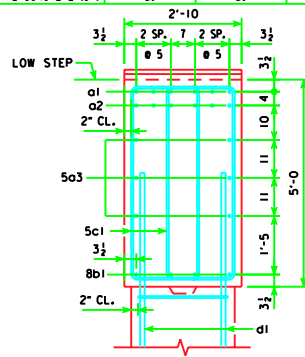


FRONT ELEVATION

END ELEVATION



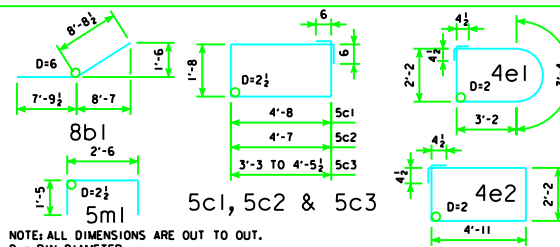
SECTION A-A



SECTION B-B

COLUMN															
H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL												
			d1 BAR				4e1 BAR				4e2 BAR				TOTAL WEIGHT (LBS)
			NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	
16	7'-6	8.7	32	9	10'-3	1115	16	4	12'-7	134	16	4	14'-11	159	1408
17	8'-6	9.8	32	9	11'-3	1224	18	4	12'-7	151	18	4	14'-11	179	1554
18	9'-6	11.0	32	9	12'-3	1333	20	4	12'-7	168	20	4	14'-11	199	1700
19	10'-6	12.1	32	9	13'-3	1442	22	4	12'-7	185	22	4	14'-11	219	1846
20	11'-6	13.3	32	9	14'-3	1550	24	4	12'-7	202	24	4	14'-11	239	1991
21	12'-6	14.4	32	9	15'-3	1659	26	4	12'-7	219	26	4	14'-11	259	2137
22	13'-6	15.6	32	9	16'-3	1768	28	4	12'-7	235	28	4	14'-11	279	2282
23	14'-6	16.7	32	9	17'-3	1877	30	4	12'-7	252	30	4	14'-11	299	2428
24	15'-6	17.9	32	9	18'-3	1986	32	4	12'-7	269	32	4	14'-11	319	2574
25	16'-0	18.5	32	9	18'-9	2040	34	4	12'-7	286	34	4	14'-11	339	2665
26	17'-0	19.6	32	9	19'-9	2149	36	4	12'-7	303	36	4	14'-11	359	2811
27	18'-0	20.8	32	9	20'-9	2258	38	4	12'-7	319	38	4	14'-11	379	2969
28	19'-0	21.9	32	9	21'-9	2366	40	4	12'-7	336	40	4	14'-11	399	3101
29	20'-0	23.1	32	9	22'-9	2475	42	4	12'-7	353	42	4	14'-11	419	3247
30	21'-0	24.2	32	9	23'-9	2584	44	4	12'-7	370	44	4	14'-11	438	3392
31	22'-0	25.4	32	9	24'-9	2693	46	4	12'-7	387	46	4	14'-11	458	3538
32	23'-0	26.5	32	9	25'-9	2802	48	4	12'-7	403	48	4	14'-11	478	3683
33	24'-0	27.7	32	9	26'-9	2910	50	4	12'-7	420	50	4	14'-11	498	3828
34	25'-0	28.9	32	9	27'-9	3019	52	4	12'-7	437	52	4	14'-11	518	3974
35	26'-0	30.0	32	9	28'-9	3128	54	4	12'-7	454	54	4	14'-11	538	4120
36	27'-0	31.2	32	9	29'-9	3237	56	4	12'-7	471	56	4	14'-11	558	4266
37	28'-0	32.3	32	9	30'-9	3346	58	4	12'-7	488	58	4	14'-11	578	4412
38	29'-0	33.5	32	9	31'-9	3454	60	4	12'-7	504	60	4	14'-11	598	4556
39	30'-0	34.6	32	9	32'-9	3563	62	4	12'-7	521	62	4	14'-11	618	4702
40	31'-0	35.8	32	9	33'-9	3672	64	4	12'-7	538	64	4	14'-11	638	4848

BENT BAR DETAILS



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

PIER NOTES:

SEE "TEE PIER NOTES" ON H30-01-06 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 H30-09-06 FOR "U" DIMENSION.



Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

TEE PIER
CAP AND COLUMN
0° SKEW

H30-49-06

LATEST REVISION DATE

Norman L. McQuill
APPROVED BY BRIDGE ENGINEER