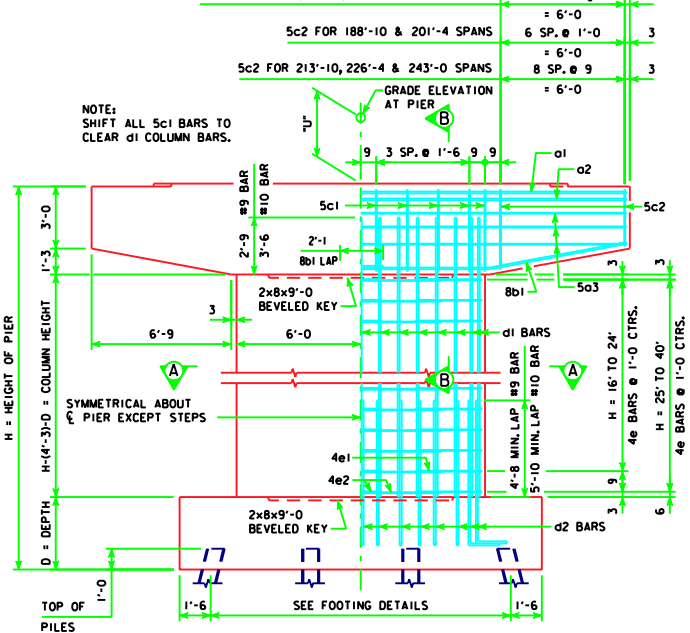
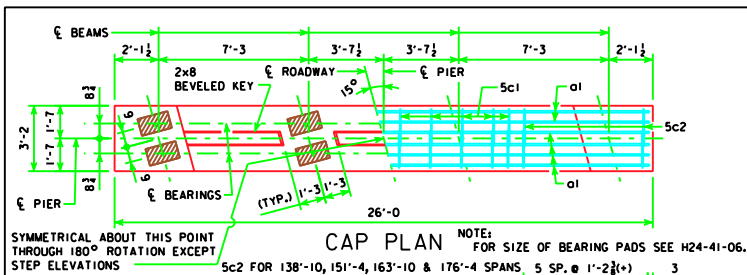
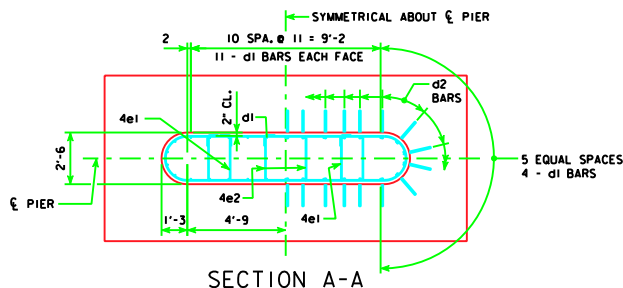
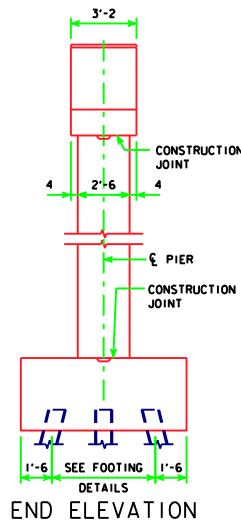




FRONT ELEVATION



SECTION A-A



END ELEVATION

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

PIER NOTES:

SEE "TEE PIER NOTES" ON H24-01-06 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 H24-15-06 FOR "U" DIMENSION.

CAP

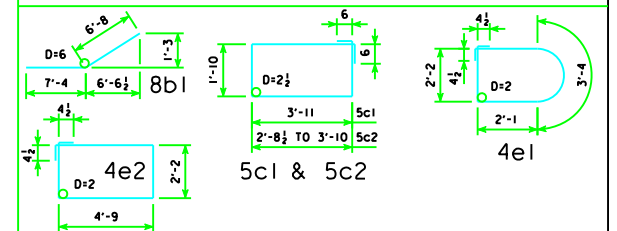
ABUT. BEARINGS	138'-10	151'-4	163'-10	176'-4	188'-10	201'-4	213'-10	226'-4	243'-0
BAR LENGTH	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1 25'-8	6	7	315	6	7	315	6	7	315
a2 25'-8	6	7	315	6	7	315	6	7	315
5a3 25'-8	6	5	161	6	5	161	6	5	161
5b1 14'-0	8	8	299	8	8	299	8	8	299
5c1 12'-6	20	5	261	20	5	261	20	5	261
5c2 VARIES	24	5	282	24	5	282	24	5	282
REINFORCING STEEL									
① TOTAL (L.B.)	1633			1633			1729		
STRUCTURAL CONCRETE (CY)	12.3			12.3			12.3		

COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL	TOTAL WEIGHT (L.B.)
d1 BAR	NO.	SIZE	LENGTH	WEIGHT
4e1 BAR	NO.	SIZE	LENGTH	WEIGHT
4e2 BAR	NO.	SIZE	LENGTH	WEIGHT
4e3 BAR	NO.	SIZE	LENGTH	WEIGHT
4e4 BAR	NO.	SIZE	LENGTH	WEIGHT
4e5 BAR	NO.	SIZE	LENGTH	WEIGHT
4e6 BAR	NO.	SIZE	LENGTH	WEIGHT
4e7 BAR	NO.	SIZE	LENGTH	WEIGHT
4e8 BAR	NO.	SIZE	LENGTH	WEIGHT
4e9 BAR	NO.	SIZE	LENGTH	WEIGHT
4e10 BAR	NO.	SIZE	LENGTH	WEIGHT
4e11 BAR	NO.	SIZE	LENGTH	WEIGHT
4e12 BAR	NO.	SIZE	LENGTH	WEIGHT
4e13 BAR	NO.	SIZE	LENGTH	WEIGHT
4e14 BAR	NO.	SIZE	LENGTH	WEIGHT
4e15 BAR	NO.	SIZE	LENGTH	WEIGHT
4e16 BAR	NO.	SIZE	LENGTH	WEIGHT
4e17 BAR	NO.	SIZE	LENGTH	WEIGHT
4e18 BAR	NO.	SIZE	LENGTH	WEIGHT
4e19 BAR	NO.	SIZE	LENGTH	WEIGHT
4e20 BAR	NO.	SIZE	LENGTH	WEIGHT
4e21 BAR	NO.	SIZE	LENGTH	WEIGHT
4e22 BAR	NO.	SIZE	LENGTH	WEIGHT
4e23 BAR	NO.	SIZE	LENGTH	WEIGHT
4e24 BAR	NO.	SIZE	LENGTH	WEIGHT
4e25 BAR	NO.	SIZE	LENGTH	WEIGHT
4e26 BAR	NO.	SIZE	LENGTH	WEIGHT
4e27 BAR	NO.	SIZE	LENGTH	WEIGHT
4e28 BAR	NO.	SIZE	LENGTH	WEIGHT
4e29 BAR	NO.	SIZE	LENGTH	WEIGHT
4e30 BAR	NO.	SIZE	LENGTH	WEIGHT
4e31 BAR	NO.	SIZE	LENGTH	WEIGHT
4e32 BAR	NO.	SIZE	LENGTH	WEIGHT
4e33 BAR	NO.	SIZE	LENGTH	WEIGHT
4e34 BAR	NO.	SIZE	LENGTH	WEIGHT
4e35 BAR	NO.	SIZE	LENGTH	WEIGHT
4e36 BAR	NO.	SIZE	LENGTH	WEIGHT
4e37 BAR	NO.	SIZE	LENGTH	WEIGHT
4e38 BAR	NO.	SIZE	LENGTH	WEIGHT
4e39 BAR	NO.	SIZE	LENGTH	WEIGHT
4e40 BAR	NO.	SIZE	LENGTH	WEIGHT

SECTION B-B

BENT BAR DETAILS



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

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Thomas L. McDaniel

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

TEE PIER
CAP AND COLUMN
15° SKEW

H24-51-06