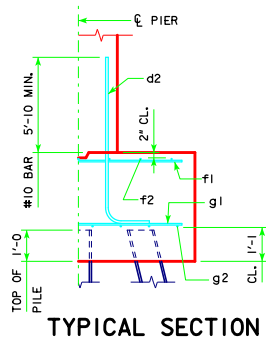
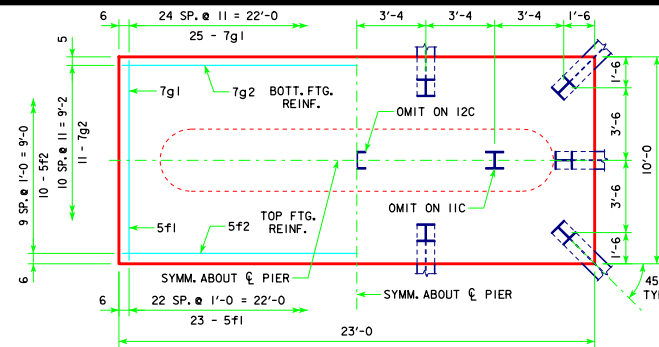


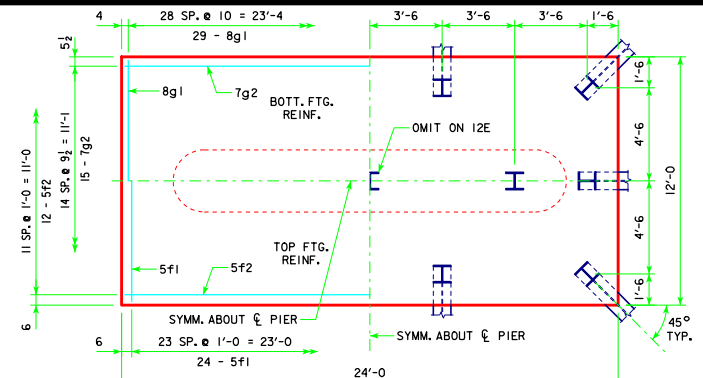
REVISED 04-13 - REVISION FOR LRFD PILE DESIGN.



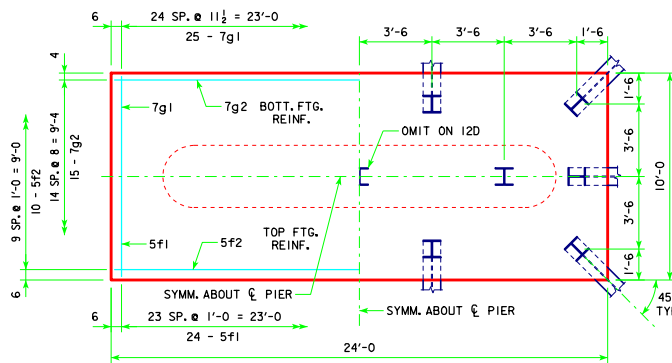
TYPICAL SECTION



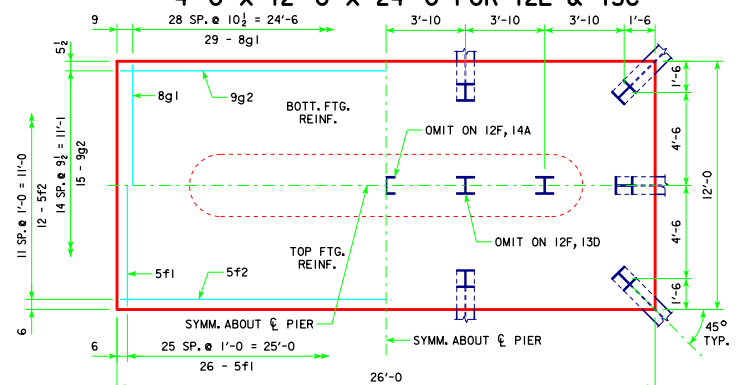
4'-0 x 10'-0 x 23'-0 FOR 11C, 12C & 13A



4'-0 x 12'-0 x 24'-0 FOR 12E & 13C



4'-0 x 10'-0 x 24'-0 FOR 12D & 13B



4'-0 x 12'-0 x 26'-0 FOR 12F, 13D & 14A

FOOTING NOTES:

THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H30-57-06.

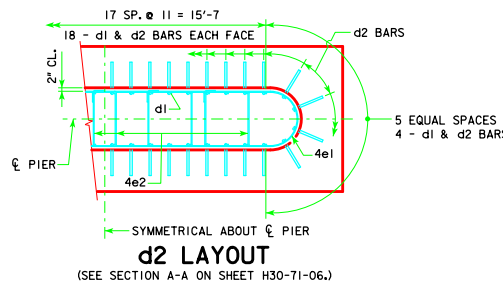
BATTER PILES IN EXTERIOR ROWS 1:4 IN THE DIRECTION SHOWN.

STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.

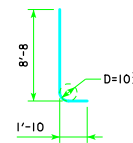
PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.

H IN FT. IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	LRFD P _u STRENGTH I _d DES. LOAD (KIPS)	
201'-4	11C	215		4' x 10' x 23'
213'-10	12C	205		
226'-4	12C	213		
243'-0	13A	208		4' x 10' x 23'
201'-4	12C	203		
213'-10	12C	210		
226'-4	12C	218		
243'-0	13A	213		4' x 10' x 24'
201'-4	12D	207		
213'-10	12D	214		
226'-4	13B	210		
243'-0	13B	217		4' x 12' x 24'
201'-4	12E	208		
213'-10	12E	215		
226'-4	13C	210		
243'-0	13C	217		4' x 12' x 26'
201'-4	12F	213		
213'-10	12F	219		
226'-4	13D	214		
243'-0	14A	208		

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 10' x 23'	d2	44 - #10 AS SHOWN	10'-6	1988	3460	34.1
	f1	23 - #5 @ 1'-0	9'-8	232		
	f2	10 - #5 @ 1'-0	22'-8	236		
	g1	25 - #7 @ 0'-11	9'-8	494		
	g2	11 - #7 @ 0'-11	22'-8	510		
4' x 10' x 24'	d2	44 - #10 AS SHOWN	10'-6	1988	3697	35.6
	f1	24 - #5 @ 1'-0	9'-8	242		
	f2	10 - #5 @ 1'-0	23'-8	247		
	g1	25 - #7 @ 0'-11 1/2	9'-8	494		
	g2	15 - #7 @ 0'-6	23'-8	726		
4' x 12' x 24'	d2	44 - #10 AS SHOWN	10'-6	1988	4205	42.7
	f1	24 - #5 @ 1'-0	11'-8	292		
	f2	12 - #5 @ 1'-0	23'-8	296		
	g1	29 - #8 @ 0'-10	11'-8	903		
	g2	15 - #7 @ 0'-9 1/2	23'-8	726		
4' x 12' x 26'	d2	44 - #10 AS SHOWN	10'-6	1988	4837	46.2
	f1	26 - #5 @ 1'-0	11'-8	316		
	f2	12 - #5 @ 1'-0	25'-8	321		
	g1	29 - #8 @ 0'-10 1/2	11'-8	903		
	g2	15 - #9 @ 0'-9 1/2	25'-8	1309		



NOTE: P_u STRENGTH I_d DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



d2
NOTE: D = PIN DIAMETER. DIMENSIONS ARE OUT TO OUT.

04-13
LATEST REVISION DATE
Thomas E. M. ...
APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

TEE PIER-HP10x57 SRL-2 STEEL PILE FOOTINGS

30° SKEW - H=25' to 40'

H30-75-06