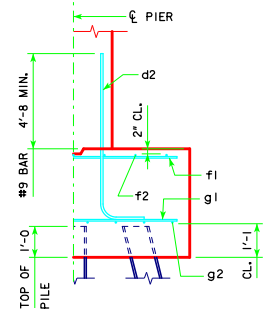


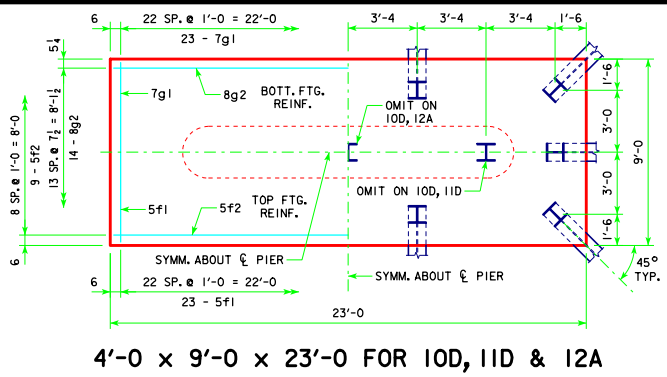
REVISED 04-13 - REVISION FOR LRFD PILE DESIGN.



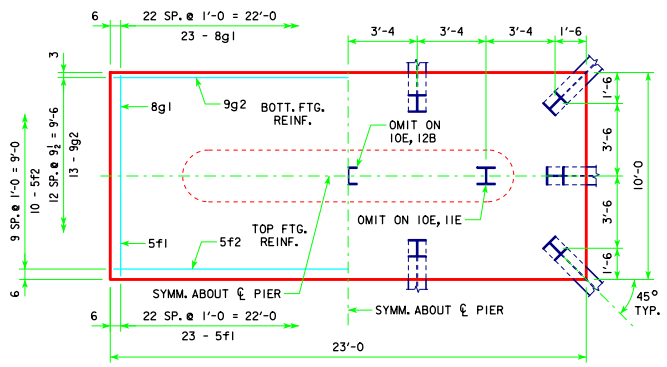
TYPICAL SECTION

H IN FT.	PILING (HP10x57)	FOOTING SIZE		
			CL - CL ABUT. BRG.	NO. & LAYOUT
20 TO 24	201'-4	10D	212	4' x 9' x 23'
	213'-10	10D	219	
	226'-4	11D	213	
25 TO 29	243'-0	12A	204	4' x 9' x 23'
	201'-4	10D	216	
	213'-10	11D	211	
30 TO 34	226'-4	11D	219	4' x 10' x 23'
	243'-0	12A	210	
	201'-4	10E	218	
35 TO 39	213'-10	11E	212	4' x 12' x 23'
	226'-4	12B	204	
	243'-0	12B	211	
40 TO 44	201'-4	10F	218	4' x 12' x 24'
	213'-10	11F	211	
	226'-4	11F	220	
45 TO 49	243'-0	12C	210	4' x 12' x 24'
	201'-4	12D	195	
	213'-10	12D	201	
50 TO 54	226'-4	12D	208	4' x 12' x 24'
	243'-0	12D	215	

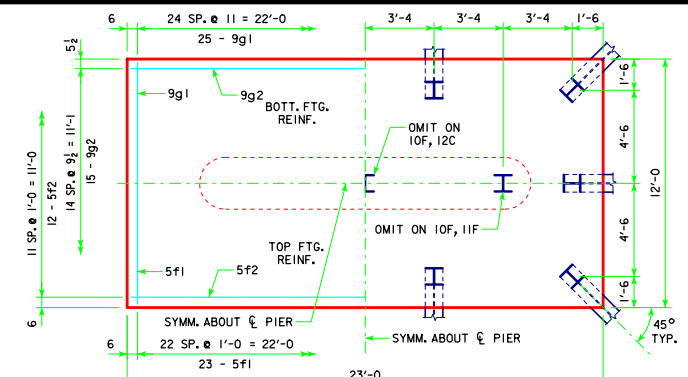
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 9' x 23'	d2	40 - #9 AS SHOWN	9'-1	1235	2910	30.7
	f1	23 - #5 @ 1'-0	8'-8	208		
	f2	9 - #5 @ 1'-0	22'-8	213		
	g1	23 - #7 @ 1'-0	8'-8	407		
	g2	14 - #8 @ 0'-7 1/2	22'-8	847		
4' x 10' x 23'	d2	40 - #9 AS SHOWN	9'-1	1235	3299	34.1
	f1	23 - #5 @ 1'-0	9'-8	232		
	f2	10 - #5 @ 1'-0	22'-8	236		
	g1	23 - #8 @ 1'-0	9'-8	594		
	g2	13 - #9 @ 0'-9 1/2	22'-8	1032		
4' x 12' x 23'	d2	40 - #9 AS SHOWN	9'-1	1235	3947	40.9
	f1	23 - #5 @ 1'-0	11'-8	280		
	f2	12 - #5 @ 1'-0	22'-8	284		
	g1	25 - #9 @ 0'-11	11'-8	992		
	g2	15 - #9 @ 0'-9 1/2	22'-8	1156		
4' x 12' x 24'	d2	40 - #9 AS SHOWN	9'-1	1235	4022	42.7
	f1	24 - #5 @ 1'-0	11'-8	292		
	f2	12 - #5 @ 1'-0	23'-8	296		
	g1	25 - #9 @ 0'-11 1/2	11'-8	992		
	g2	15 - #9 @ 0'-9 1/2	23'-8	1207		



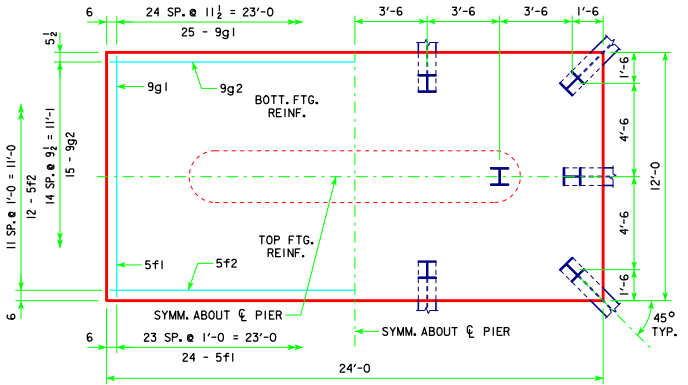
4'-0 x 9'-0 x 23'-0 FOR 10D, 11D & 12A



4'-0 x 10'-0 x 23'-0 FOR 10E, 11E & 12B



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



4'-0 x 12'-0 x 24'-0 FOR 12D

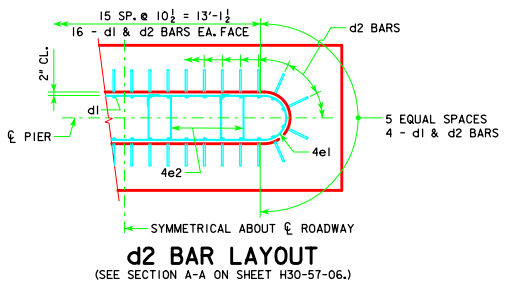
FOOTING NOTES:

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.

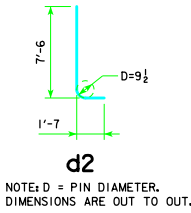
STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.

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



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H30-57-06.)

NOTE: Pu, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



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

LATEST REVISION DATE 04-13	APPROVED BY BRIDGE ENGINEER <i>Thomas E. M. Donnell</i>	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		H30-61-06	0° SKEW - H=25' to 40'