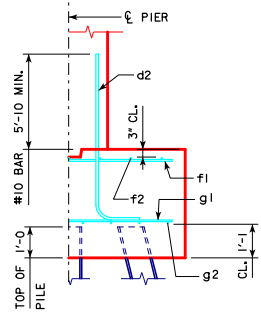
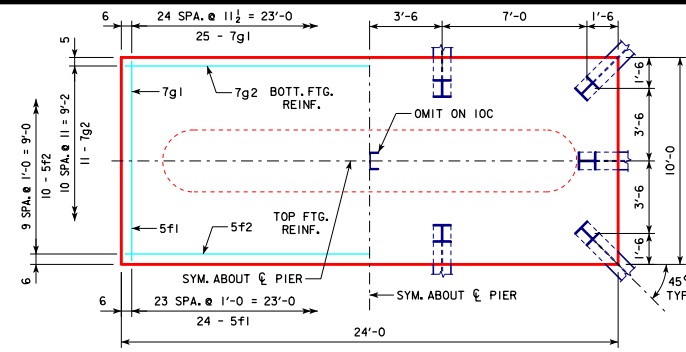


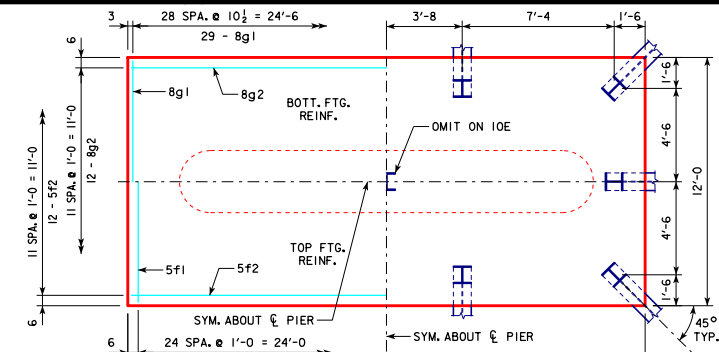
REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.  
REVISED 09-2016 - CHANGED VERTICAL CLEARANCE OF REBAR "f2" TO TOP OF PIER FOOTING TO 3" WAS 2".



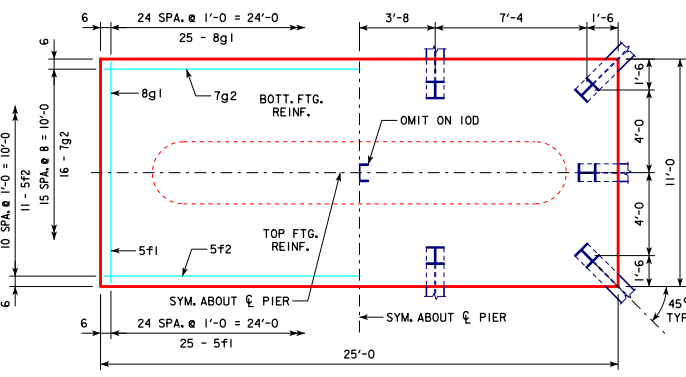
**TYPICAL SECTION**



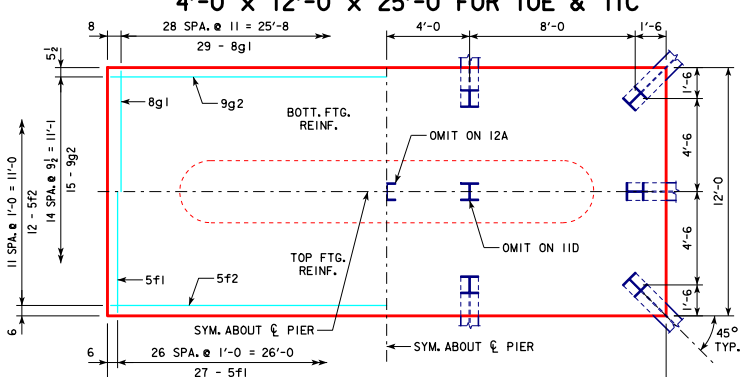
**4'-0 x 10'-0 x 24'-0 FOR 10C & 11A**



**4'-0 x 12'-0 x 25'-0 FOR 10E & 11C**



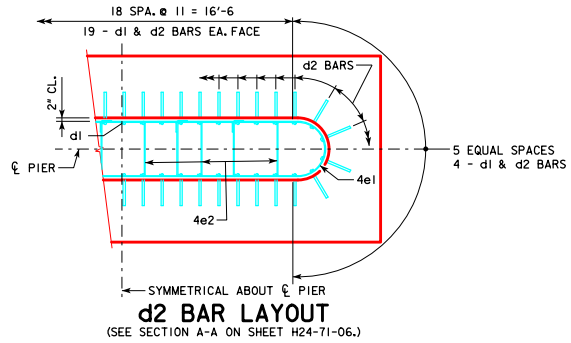
**4'-0 x 11'-0 x 25'-0 FOR 10D & 11B**



**4'-0 x 12'-0 x 27'-0 FOR 11D & 12A**

H IN FT.	C - CL. ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	① LRFD P <sub>u</sub> STRENGTH I, DES. LOAD (KIPS)	
201'-4	10C	196		
213'-10	10C	203		4' x 10' x 24'
226'-4	10C	211		
243'-0	10C	218		
201'-4	10C	202		4' x 10' x 24'
213'-10	10C	208		
226'-4	10C	216		
243'-0	11A	210		
201'-4	10D	206		
213'-10	10D	212		4' x 11' x 25'
226'-4	10D	219		
243'-0	11B	213		
201'-4	10E	214		
213'-10	10E	220		4' x 12' x 25'
226'-4	11C	214		
243'-0	11C	218		
201'-4	11D	210		
213'-10	11D	215		4' x 12' x 27'
226'-4	12A	208		
243'-0	12A	211		

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				STRUCTURAL CONCRETE (CY)	
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 10' x 24'	d2	46 - #10 AS SHOWN	10'-6	2078	3593	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	11 - #7 @ 0'-11	23'-8	532		
4' x 11' x 25'	d2	46 - #10 AS SHOWN	10'-6	2078	4158	40.7
	f1	25 - #5 @ 1'-0	10'-8	278		
	f2	11 - #5 @ 1'-0	24'-8	283		
	g1	25 - #7 @ 1'-0	10'-8	712		
	g2	15 - #7 @ 0'-8	24'-8	807		
4' x 12' x 25'	d2	46 - #10 AS SHOWN	10'-6	2078	4384	44.4
	f1	25 - #5 @ 1'-0	11'-8	304		
	f2	12 - #5 @ 1'-0	24'-8	309		
	g1	29 - #8 @ 0'-10 1/2	11'-8	903		
	g2	12 - #8 @ 1'-0	24'-8	790		
4' x 12' x 27'	d2	46 - #10 AS SHOWN	10'-6	2078	5004	48.0
	f1	27 - #5 @ 1'-0	11'-8	329		
	f2	12 - #5 @ 1'-0	26'-8	334		
	g1	29 - #8 @ 0'-11	11'-8	903		
	g2	15 - #9 @ 0'-9 1/2	26'-8	1360		

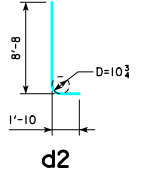


**d2 BAR LAYOUT**  
(SEE SECTION A-A ON SHEET H24-71-06.)

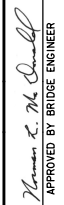

① NOTE: P<sub>u</sub> STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

**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 H24-71-06.
- 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.



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

09-2016 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE
			<b>PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES</b> DECEMBER, 2006
<b>TEE PIER-HP10x57 SRL-2 STEEL PILE FOOTINGS</b>		<b>H24-75-06</b> 45° SKEW - H=25' TO 40'	