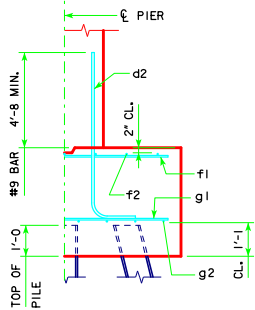
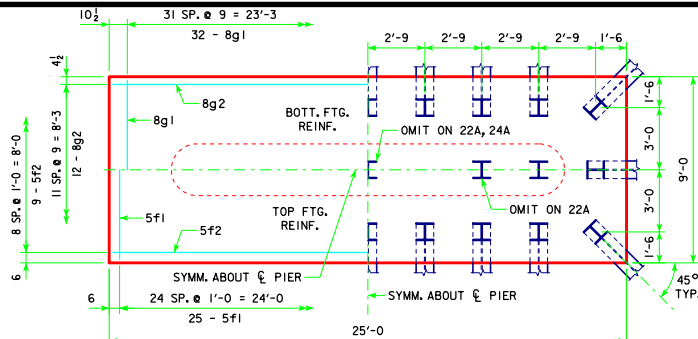


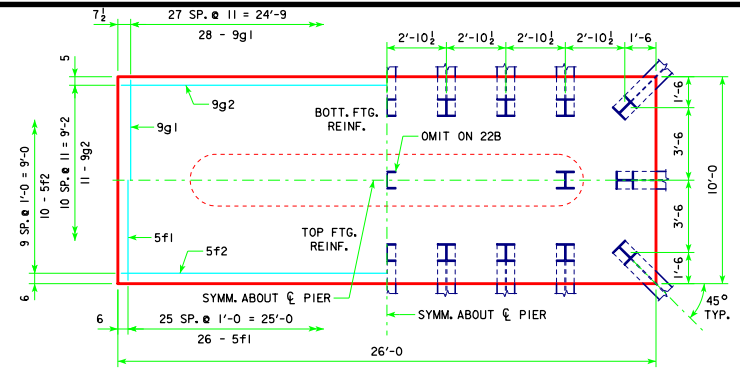
REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.



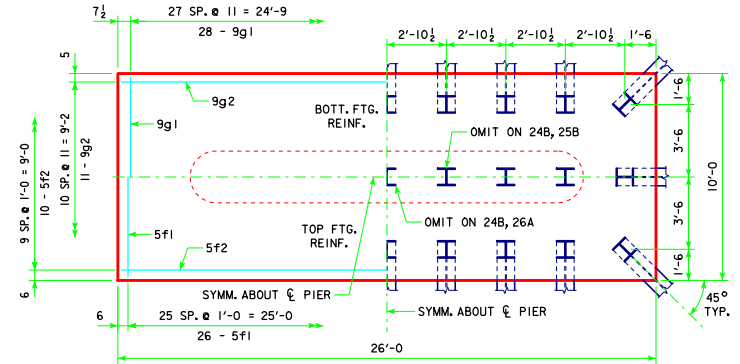
**TYPICAL SECTION**



**3'-6 x 9'-0 x 25'-0 FOR 22A, 24A & 25A**



**3'-6 x 10'-0 x 26'-0 FOR 22B & 23A**



**3'-6 x 10'-0 x 26'-0 FOR 24B, 25B & 26A**

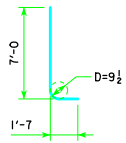
**FOOTING NOTES:**

THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H44-58-07.

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.

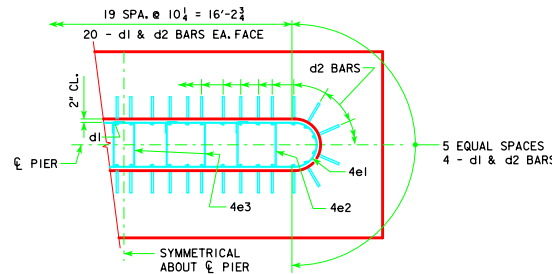


**d2**

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

FT. IN	CL. - CL. ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	LRFD PU STRENGTH I DES. BRG. (KIPS)	
18 TO 21	201'-4	22A	140	3'-6 x 9' x 25'
	213'-10	22A	146	
	226'-4	24A	143	
21	243'-0	25A	145	3'-6 x 10' x 26'
	201'-4	22B	140	
	213'-10	22B	146	
19 TO 24	226'-4	24B	142	3'-6 x 10' x 26'
	243'-0	25B	145	
	201'-4	22B	143	
23 TO 24	213'-10	23A	144	3'-6 x 10' x 26'
	226'-4	24B	145	
	243'-0	26A	143	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
3'-6 x 9' x 25'	d2	48 - #9 AS SHOWN	8'-7	1401	3389	29.2
	f1	25 - #5 @ 1'-0	8'-8	226		
	f2	9 - #5 @ 1'-0	24'-8	232		
	g1	32 - #8 @ 0'-9	8'-8	740		
	g2	12 - #8 @ 0'-9	24'-8	790		
3'-6 x 10' x 26'	d2	48 - #9 AS SHOWN	8'-7	1401	3811	33.7
	f1	26 - #5 @ 1'-0	9'-8	262		
	f2	10 - #5 @ 1'-0	25'-8	268		
	g1	28 - #9 @ 0'-11	9'-8	920		
	g2	11 - #9 @ 0'-11	25'-8	960		



**d2 BAR LAYOUT**  
(SEE SECTION A-A ON SHEET H44-58-07.)

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

LATEST REVISION DATE 05-13	APPROVED BY BRIDGE ENGINEER <i>Thomas E. M. Donnell</i>	 <b>Iowa Department of Transportation</b> Highway Division	STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE <b>PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES</b> MARCH, 2007