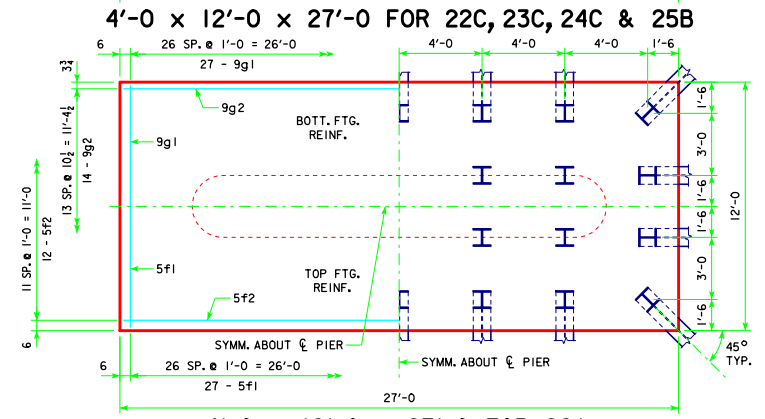
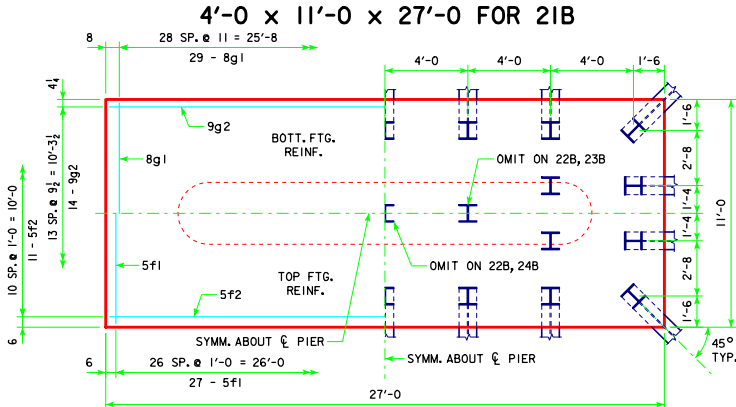
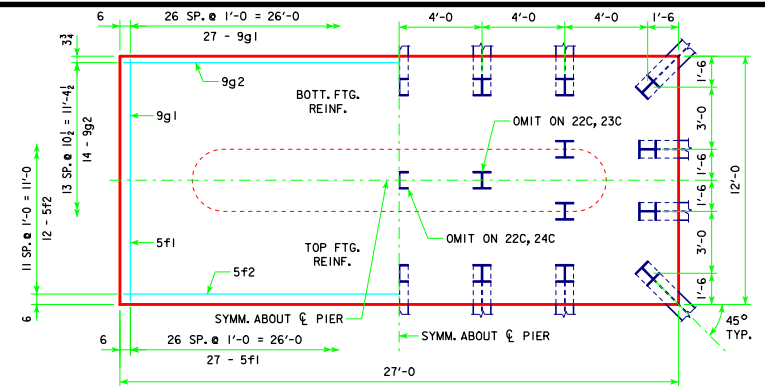
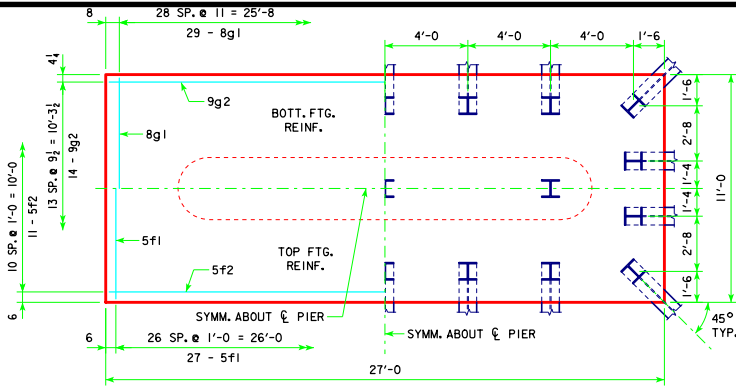
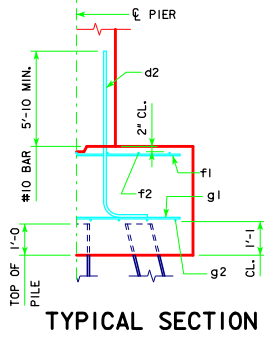


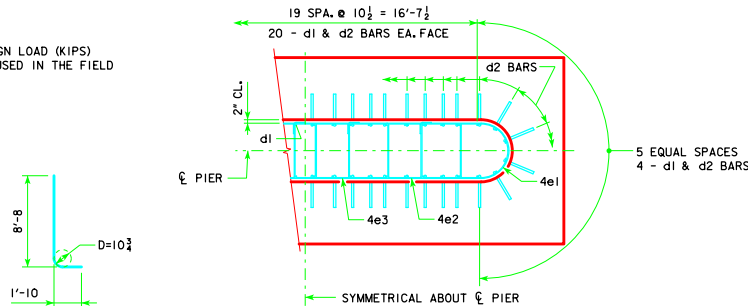
REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.



H IN. FT.	C. - ABUT. BRG.	P. C.	PILING (HP10x57)		FOOTING SIZE
			NO. & LAYOUT	(1) LRFD PU. STRENGTH I DES. LOAD (KIPS)	
201'-4	21B			144	4' x 11' x 27'
213'-10	22B			141	
226'-4	23B			143	
243'-0	24B			144	
201'-4	22B			139	4' x 11' x 27'
213'-10	22B			144	
226'-4	23B			146	
243'-0	24B			146	
201'-4	22C			144	4' x 12' x 27'
213'-10	23C			144	
226'-4	24C			145	
243'-0	25B			147	
201'-4	23C			143	4' x 12' x 27'
213'-10	24C			143	
226'-4	25B			145	
243'-0	26A			145	

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

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)			TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 11' x 27'	d2 48 - #10 AS SHOWN	10'-6	2169	4870	44.0
	f1 27 - #5 @ 1'-0	10'-8	300		
	f2 11 - #5 @ 1'-0	26'-8	806		
	g1 29 - #8 @ 0'-11	10'-8	326		
	g2 14 - #9 @ 0'-9 1/2	26'-8	1269		
4' x 12' x 27'	d2 48 - #10 AS SHOWN	10'-6	2169	5172	48.0
	f1 27 - #5 @ 1'-0	11'-8	329		
	f2 12 - #5 @ 1'-0	26'-8	334		
	g1 27 - #9 @ 1'-0	11'-8	1071		
	g2 14 - #9 @ 0'-10 1/2	26'-8	1269		



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

4'-0 x 12'-0 x 27'-0 FOR 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 H40-73-06.
 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.

05-13 LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER <i>Thomas E. Mc Donnell</i>	 Iowa Department of Transportation Highway Division	STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES AUGUST, 2009	H40-76-06