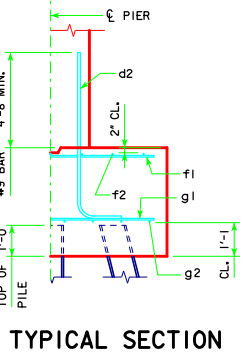
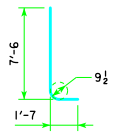


REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.



TYPICAL SECTION

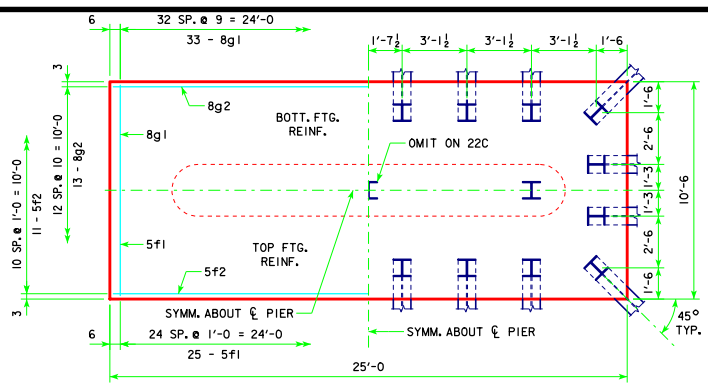


d2

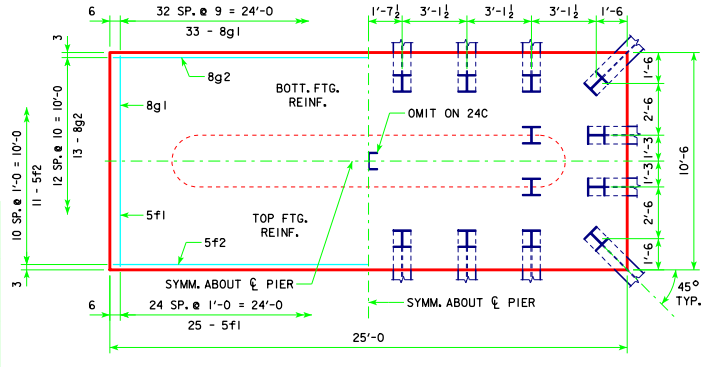
NOTE: D = PIN DIAMETER. DIMENSIONS ARE OUT TO OUT.

H IN FT.	CL ABUT. BRG.	C. NO. & LAYOUT	PILING (HP10x57)		FOOTING SIZE
			(1) LRFD PU STRENGTH DES. BRG. (KIPS)		
201'-4	22C		143		4' x 10'-6 x 25'
213'-10	23B		144		
226'-4	24C		142		
243'-0	25C		144		
201'-4	22D		142		4' x 10'-6 x 27'
213'-10	23C		143		
226'-4	24D		142		
243'-0	25D		143		
201'-4	22D		144		4' x 10'-6 x 27'
213'-10	23C		145		
226'-4	24D		144		
243'-0	25D		145		
201'-4	22D		146		4' x 10'-6 x 27'
213'-10	24D		140		
226'-4	24D		145		
243'-0	26B		142		
201'-4	23C		145		4' x 10'-6 x 27'
213'-10	24D		142		
226'-4	25D		144		
243'-0	26B		145		

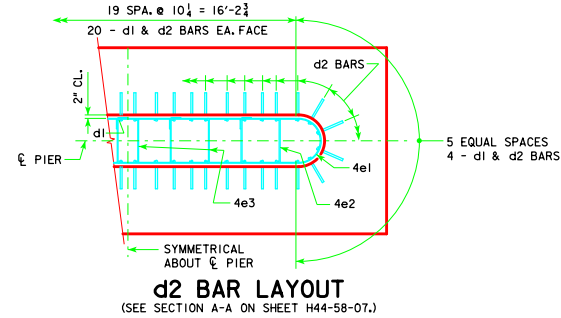
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 10'-6 x 25'	d2	48 - #9 AS SHOWN	9'-1	1482	3782	38.9
	f1	25 - #5 @ 1'-0	10'-2	265		
	f2	11 - #5 @ 1'-0	24'-8	283		
	g1	33 - #8 @ 0'-9	10'-2	896		
	g2	13 - #8 @ 0'-10	24'-8	856		
4' x 10'-6 x 27'	d2	48 - #9 AS SHOWN	9'-1	1482	4180	42.0
	f1	27 - #5 @ 1'-0	10'-2	286		
	f2	11 - #5 @ 1'-0	26'-8	306		
	g1	33 - #8 @ 0'-9 1/2	10'-2	896		
	g2	17 - #8 @ 0'-7 1/2	26'-8	1210		



4'-0 x 10'-6 x 25'-0 FOR 22C & 23B

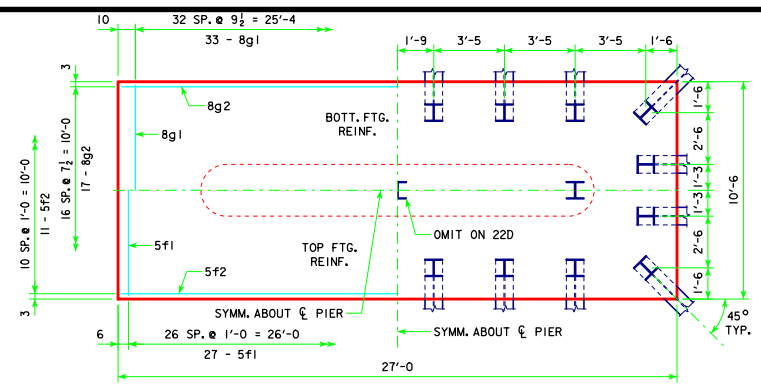


4'-0 x 10'-6 x 25'-0 FOR 24C & 25C

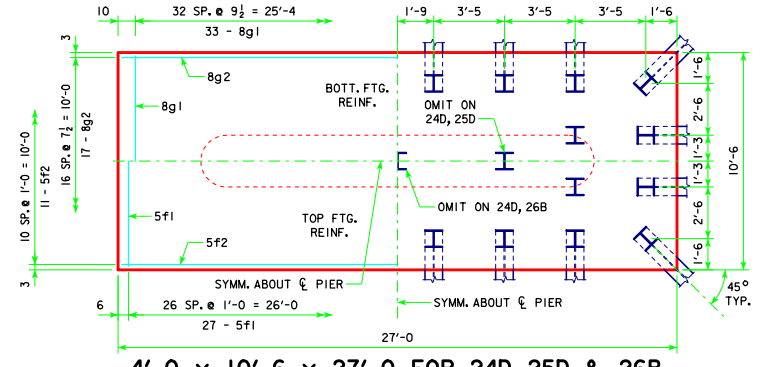


d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H44-58-07.)

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



4'-0 x 10'-6 x 27'-0 FOR 22D & 23C



4'-0 x 10'-6 x 27'-0 FOR 24D, 25D & 26B

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.

LATEST REVISION DATE
05-13
APPROVED BY BRIDGE ENGINEER
Thomas E. M. Donnell

Iowa Department of Transportation
Highway Division
STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
MARCH, 2007

TEE PIER-HP10x57 SRL-1 STEEL PILE FOOTINGS
15° SKEW - H=25' TO 40'
H44-61-07