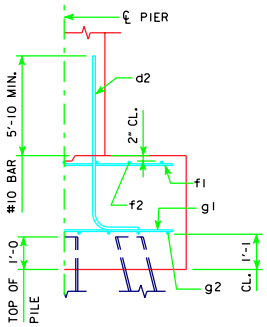
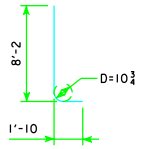
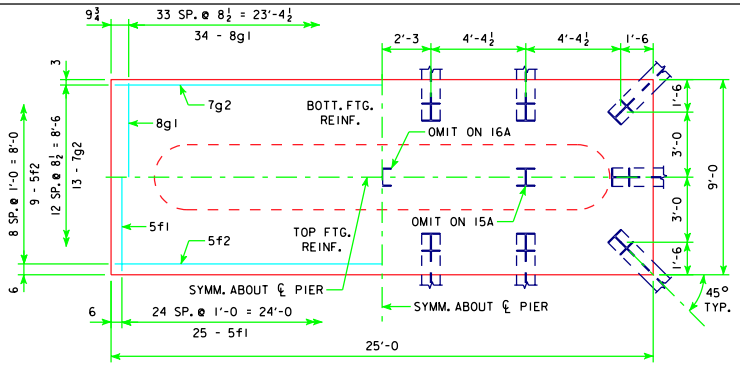


TYPICAL SECTION

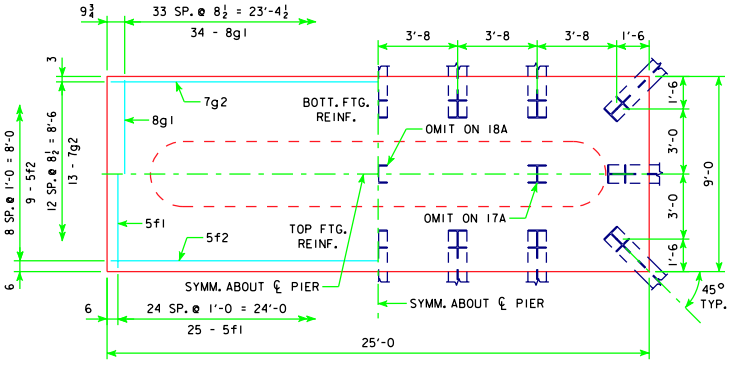


d2

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



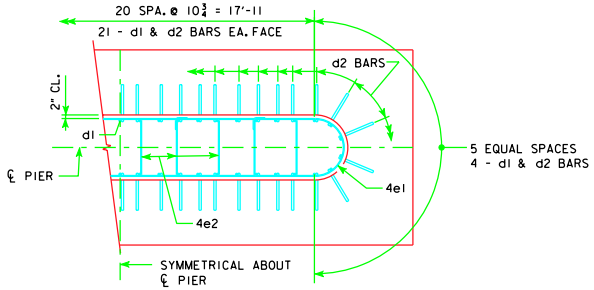
3'-6 x 9'-0 x 25'-0 FOR 15A & 16A



3'-6 x 9'-0 x 25'-0 FOR 17A & 18A

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	FOOTING SIZE
16 TO 18	201'-4	15A	74	215	3'-6 x 9' x 25'
	213'-10	16A	72	208	
	226'-4	16A	75	217	
	243'-0	17A	75	217	
19 TO 21	201'-4	15A	75	220	3'-6 x 9' x 25'
	213'-10	16A	74	213	
	226'-4	17A	74	213	
	243'-0	18A	72	207	
22 TO 24	201'-4	16A	73	210	3'-6 x 9' x 25'
	213'-10	16A	75	218	
	226'-4	17A	75	217	
	243'-0	18A	73	211	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 9' x 25'	d2	50 - #10 AS SHOWN	10'-0	2152	4052	29.2
	f1	25 - #5 @ 1'-0	8'-8	226		
	f2	9 - #5 @ 1'-0	24'-8	232		
	g1	34 - #8 @ 0'-8½	8'-8	787		
	g2	13 - #7 @ 0'-8½	24'-8	655		



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H44-66-07.)

① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

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 H44-66-07.

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.

11-09
LATEST REVISION DATE

Warren R. McDonald
APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

MARCH, 2007

TEE PIER - 75 TON STEEL PILE FOOTINGS

30° SKEW - H=16' TO 24'

H44-70-07

REVISED 11-09 - THIS SHEET WAS ADDED FOR A 75 TON STEEL PILING OPTION.