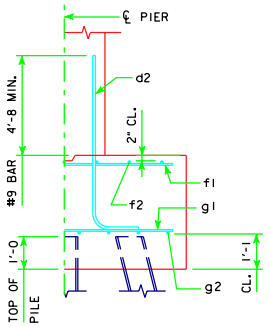
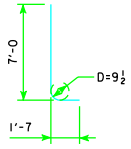
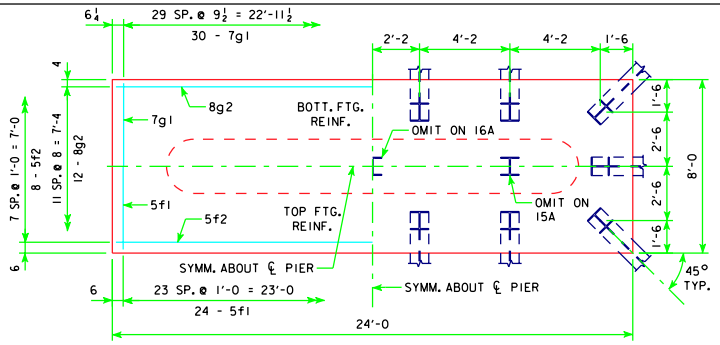


TYPICAL SECTION

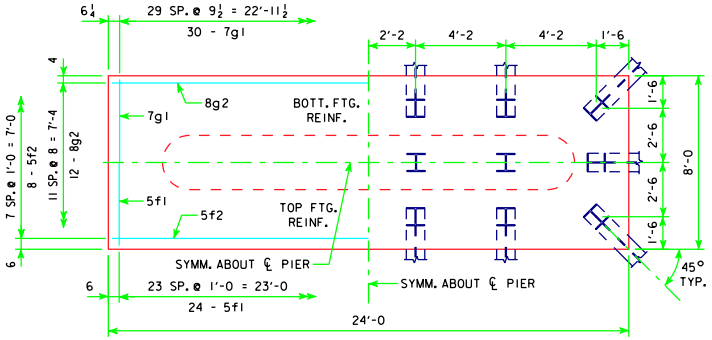


d2

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



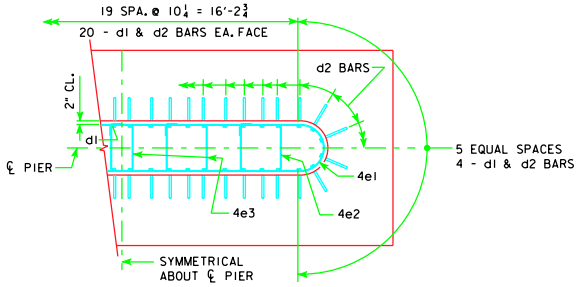
3'-6 x 8'-0 x 24'-0 FOR 15A, 16A & 17A



3'-6 x 8'-0 x 24'-0 FOR 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	72	207	3'-6 x 8' x 24'
	213'-10	15A	75	215	
	226'-4	16A	73	211	
	243'-0	16A	75	220	
19 TO 21	201'-4	15A	73	212	3'-6 x 8' x 24'
	213'-10	15A	75	220	
	226'-4	16A	75	215	
	243'-0	17A	75	216	
22 TO 24	201'-4	15A	75	216	3'-6 x 8' x 24'
	213'-10	16A	73	210	
	226'-4	16A	75	219	
	243'-0	18A	74	212	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 8' x 24'	d2	48 - #9 AS SHOWN	8'-7	1401	3018	24.9
	f1	24 - #5 @ 1'-0	7'-8	192		
	f2	8 - #5 @ 1'-0	23'-8	197		
	g1	30 - #7 @ 0'-9½	7'-8	470		
	g2	12 - #8 @ 0'-8	23'-8	758		



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

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 H44-58-07.

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.

11-09
LATEST REVISION DATE

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
15° SKEW - H=16' TO 24'

H44-62-07

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