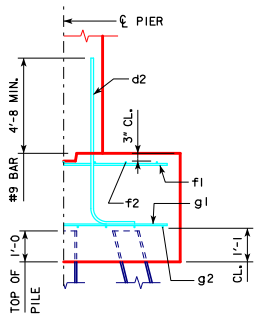
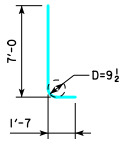
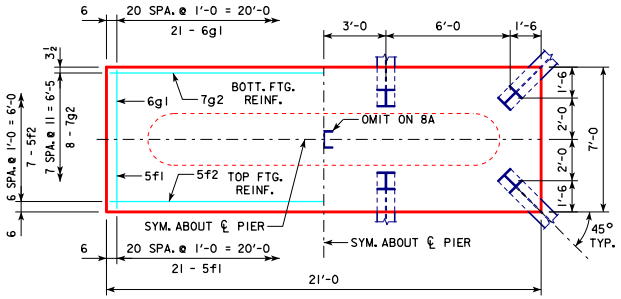


TYPICAL SECTION

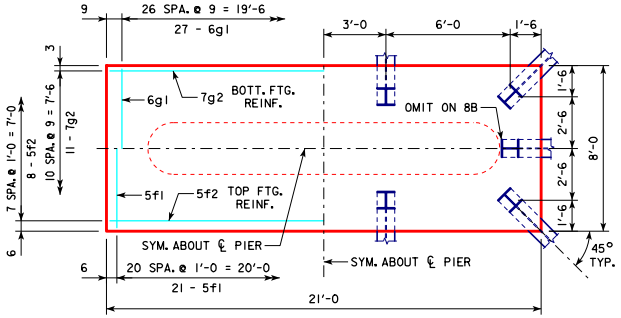


d2

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



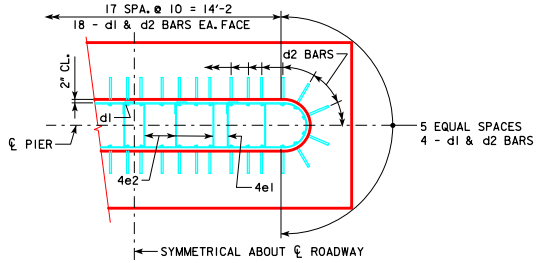
3'-6 x 7'-0 x 21'-0 FOR 8A & 9A



3'-6 x 8'-0 x 21'-0 FOR 8B & 10A

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	PILING (HP10x57) ① LRFD Pu, STRENGTH I, DES. LOAD (KIPS)	FOOTING SIZE
16 TO 18	201'-4	8A	207	3'-6 x 7' x 21'
	213'-10	8A	215	
	226'-4	9A	209	
	243'-0	9A	217	
19 TO 21	201'-4	8B	210	3'-6 x 8' x 21'
	213'-10	8B	218	
	226'-4	10A	184	
	243'-0	10A	191	
22 TO 24	201'-4	10A	178	3'-6 x 8' x 21'
	213'-10	10A	185	
	226'-4	10A	192	
	243'-0	10A	199	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 7' x 21'	d2	44 - #9 AS SHOWN	8'-7	1284	2129	19.1
	f1	21 - #5 @ 1'-0	6'-8	146		
	f2	7 - #5 @ 1'-0	20'-8	151		
	g1	21 - #6 @ 1'-0	6'-8	210		
	g2	8 - #7 @ 0'-11	20'-8	338		
3'-6 x 8' x 21'	d2	44 - #9 AS SHOWN	8'-7	1284	2400	21.8
	f1	21 - #5 @ 1'-0	7'-8	168		
	f2	8 - #5 @ 1'-0	20'-8	172		
	g1	27 - #6 @ 0'-9	7'-8	311		
	g2	11 - #7 @ 0'-9	20'-8	465		



d2 BAR LAYOUT

(SEE SECTION A-A ON SHEET H24-50-06.)

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

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 H24-50-06.

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.

09-2016
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

TEE PIER-HP10x57 SRL-2 STEEL PILE FOOTINGS

0° SKEW - H=16' TO 24'

H24-53-06

REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.
REVISED 09-2016 - CHANGED VERTICAL CLEARANCE OF REBAR "f2" TO TOP OF PIER FOOTING TO 3" (WAS 2").