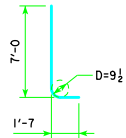


TYPICAL SECTION

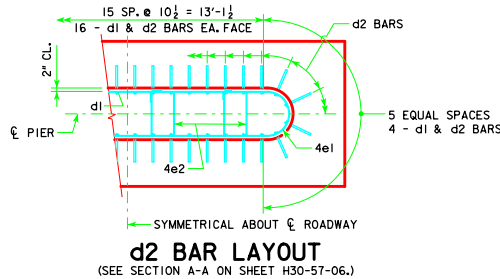


d2

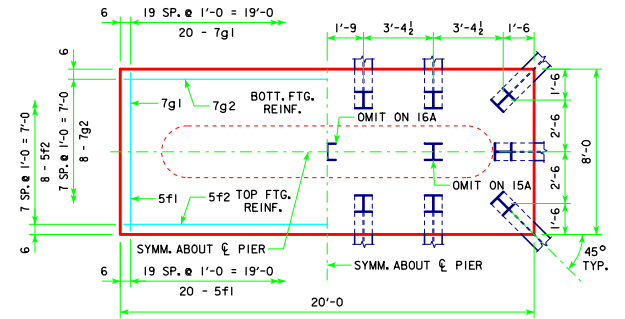
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	LRFD P _u , STRENGTH I, DES. LOAD (KIPS)	
18	201'-4	15A	141	3'-6 x 8' x 20'
16 TO	213'-10	16A	138	
	226'-4	16A	144	
	243'-0	17A	144	
21	201'-4	15B	143	3'-6 x 8' x 22'
19 TO	213'-10	16B	140	
	226'-4	16B	146	
	243'-0	17B	146	
24	201'-4	16B	139	3'-6 x 8' x 22'
TO	213'-10	16B	144	
	226'-4	17B	144	
	243'-0	18A	143	

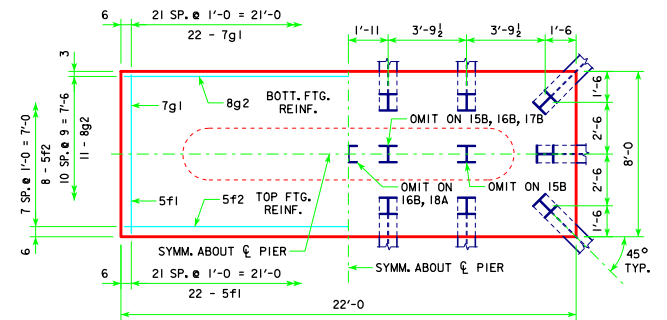
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
3'-6 x 8' x 20'	d2	40 - #9 AS SHOWN	8'-7	1167	2126	20.7
	f1	20 - #5 @ 1'-0	7'-8	160		
	f2	8 - #5 @ 1'-0	19'-8	164		
	g1	20 - #7 1'-0	7'-8	313		
	g2	8 - #7 @ 1'-0	19'-8	322		
	d2	40 - #9 AS SHOWN	8'-7	1167		
3'-6 x 8' x 22'	f1	22 - #5 @ 1'-0	7'-8	176	2505	22.8
	f2	8 - #5 @ 1'-0	21'-8	181		
	g1	22 - #7 @ 1'-0	7'-8	345		
	g2	11 - #8 @ 0'-9	21'-8	636		



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



3'-6 x 8'-0 x 20'-0 FOR 15A, 16A & 17A



3'-6 x 8'-0 x 22'-0 FOR 15B, 16B, 17B & 18A

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 H30-57-06.

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.

LATEST REVISION DATE 04-13	APPROVED BY BRIDGE ENGINEER <i>Thomas E. M. Donnell</i>	Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES DECEMBER, 2006	
TEE PIER-HP10x57 SRL-1 STEEL PILE FOOTINGS 0° SKEW - H=16' to 24'		H30-58-06	

REVISED 04-13 - REVISION FOR LRFD PILE DESIGN.