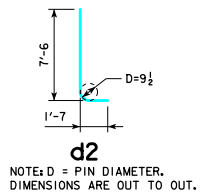


REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.
REVISED 10-2016 - CHANGED VERTICAL CLEARANCE OF REBAR "f2" TO TOP OF PIER FOOTING TO 3" WAS 2".

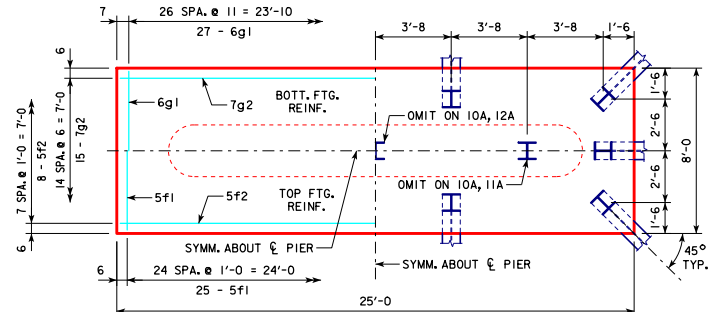
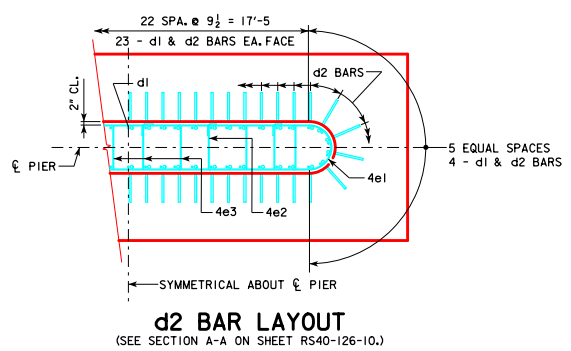
H IN FT.	C - C ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	① LRFD P _u , STRENGTH I, DES. LOAD (KIPS)	
16 TO 18	160'-0	10A	209	4' x 8' x 25'
	180'-0	11A	211	
	200'-0	12A	206	
	220'-0	13A	208	
	240'-0	14A	206	
	260'-0	14B	216	
	280'-0	16A	211	
	300'-0	16D	214	
	320'-0	16E	215	
	340'-0	17B	209	
19 TO 21	160'-0	10A	216	4' x 8' x 25'
	180'-0	11A	218	
	200'-0	12A	213	
	220'-0	13A	214	
	240'-0	14A	212	
	260'-0	15A	213	
	280'-0	16A	217	
	300'-0	16D	219	
	320'-0	16E	219	
	340'-0	18A	210	
22 TO 24	160'-0	10B	218	4' x 9' x 25'
	180'-0	12B	202	
	200'-0	12B	214	
	220'-0	13B	216	
	240'-0	14B	213	
	260'-0	15A	218	
	280'-0	16B	217	
	300'-0	16E	212	
	320'-0	17B	215	
	340'-0	18A	214	
25 TO 27	160'-0	11C	209	4' x 10' x 25'
	180'-0	12C	204	
	200'-0	12C	216	
	220'-0	13C	217	
	240'-0	14C	214	
	260'-0	15B	218	
	280'-0	16C	218	
	300'-0	16E	215	
	320'-0	17B	218	
	340'-0	18A	217	
28 TO 30	160'-0	11C	214	4' x 10' x 25'
	180'-0	12C	209	
	200'-0	13C	206	
	220'-0	14C	204	
	240'-0	14C	218	
	260'-0	15C	218	
	280'-0	16D	218	
	300'-0	16E	218	
	320'-0	18A	210	
	340'-0	18A	219	
31 TO 33	160'-0	12D	198	4' x 11' x 25'
	180'-0	12D	211	
	200'-0	13D	208	
	220'-0	14D	205	
	240'-0	14D	219	
	260'-0	15C	219	
	280'-0	16E	209	
	300'-0	17B	212	
	320'-0	18A	213	
	340'-0	19A	214	
34 TO 36	160'-0	12E	200	4' x 11' x 27'
	180'-0	12E	212	
	200'-0	13E	208	
	220'-0	14E	205	
	240'-0	14E	219	
	260'-0	15D	214	
	280'-0	16E	212	
	300'-0	17B	215	
	320'-0	18A	215	
	340'-0	19A	216	

H IN FT.	C - C ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	① LRFD P _u , STRENGTH I, DES. LOAD (KIPS)	
37 TO 40	160'-0	12F	203	4' x 12' x 27'
	180'-0	12F	215	
	200'-0	13F	215	
	220'-0	14F	217	
	240'-0	15D	205	
	260'-0	15D	217	
	280'-0	16E	215	
	300'-0	17B	218	
	320'-0	18A	218	
	340'-0	19A	219	

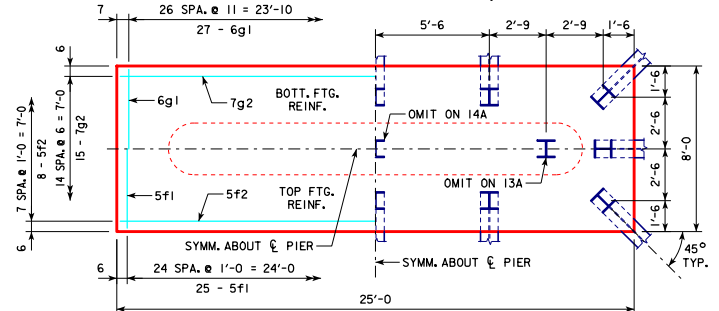


FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)			TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
4' x 8' x 25'	d2 54 - #9 AS SHOWN	9'-1	1668	3141	29.6
	f1 25 - #5 @ 1'-0	7'-8	200		
	f2 8 - #5 @ 1'-0	24'-8	206		
	g1 27 - #6 @ 0'-11	7'-8	311		
	g2 15 - #7 @ 0'-6	24'-8	756		
4' x 9' x 25'	d2 54 - #9 AS SHOWN	9'-1	1668	3378	33.3
	f1 25 - #5 @ 1'-0	8'-8	226		
	f2 9 - #5 @ 1'-0	24'-8	232		
	g1 28 - #7 @ 0'-10 1/2	8'-8	496		
	g2 15 - #7 @ 0'-7	24'-8	756		
4' x 10' x 25'	d2 54 - #9 AS SHOWN	9'-1	1668	3656	37.0
	f1 25 - #5 @ 1'-0	9'-8	252		
	f2 10 - #5 @ 1'-0	24'-8	257		
	g1 28 - #8 @ 0'-10 1/2	9'-8	723		
	g2 15 - #7 @ 0'-8	24'-8	756		
4' x 11' x 25'	d2 54 - #9 AS SHOWN	9'-1	1668	3998	40.7
	f1 25 - #5 @ 1'-0	10'-8	278		
	f2 11 - #5 @ 1'-0	24'-8	283		
	g1 27 - #9 @ 0'-11	10'-8	979		
	g2 12 - #8 @ 0'-11	24'-8	790		
4' x 12' x 27'	d2 54 - #9 AS SHOWN	9'-1	1668	4511	44.0
	f1 27 - #5 @ 1'-0	10'-8	306		
	f2 11 - #5 @ 1'-0	26'-8	306		
	g1 34 - #8 @ 0'-9 1/2	10'-8	968		
	g2 14 - #9 @ 0'-9 1/2	26'-8	1269		
4' x 12' x 27'	d2 54 - #9 AS SHOWN	9'-1	1668	5000	48.0
	f1 27 - #5 @ 1'-0	11'-8	329		
	f2 12 - #5 @ 1'-0	26'-8	334		
	g1 33 - #9 @ 0'-9 1/2	11'-8	1309		
	g2 15 - #9 @ 0'-9 1/2	26'-8	1360		

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



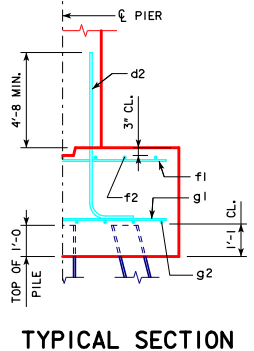
4'-0" x 8'-0" x 25'-0" FOR 10A, 11A & 12A



4'-0" x 8'-0" x 25'-0" FOR 13A & 14A

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 RS40-126-10.
- 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.



TYPICAL SECTION

10-2016 LATEST REVISION DATE	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010	 APPROVED BY BRIDGE ENGINEER	RS40-131-10 10° SKEW - SHEET 1