

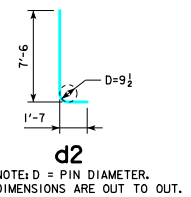
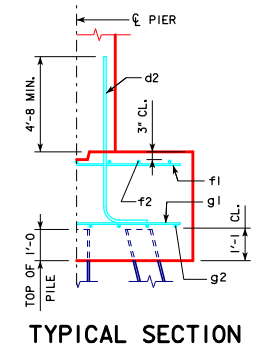
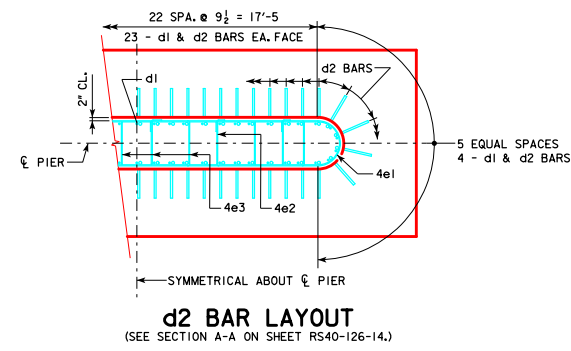
REVISED 02-2017 - CHANGED VERTICAL CLEARANCE OF REBAR "f2" TO TOP OF PIER FOOTING TO 3" WAS 2".

H IN FT.	CL IN FT.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	① LRFD P _u , STRENGTH I, DES. LOAD (KIPS)	
16 TO 18	160'-0	16A	139	4' x 9' x 24'
	180'-0	17A	144	
	200'-0	18A	145	4' x 10' x 24'
	220'-0	18D	144	4' x 11' x 28'
	240'-0	20A	144	
	260'-0	21B	143	4' x 11' x 30'
	280'-0	23A	143	
	300'-0	23B	146	4' x 12' x 32'
	320'-0	25A	144	
	340'-0	26A	146	4' x 14' x 32'
19 TO 21	160'-0	16B	142	4' x 10' x 24'
	180'-0	17B	146	
	200'-0	18B	146	4' x 10' x 26'
	220'-0	19A	143	4' x 11' x 28'
	240'-0	21A	143	
	260'-0	21B	146	4' x 11' x 30'
	280'-0	23A	146	
	300'-0	24B	143	4' x 12' x 32'
	320'-0	25A	147	
	340'-0	26B	142	4' x 14' x 32'
22 TO 24	160'-0	16C	143	4' x 10' x 26'
	180'-0	17C	147	
	200'-0	18D	140	4' x 11' x 28'
	220'-0	19A	146	
	240'-0	21A	146	4' x 11' x 30'
	260'-0	22A	143	4' x 11' x 30'
	280'-0	23B	143	4' x 12' x 32'
	300'-0	24B	145	
	320'-0	25B	145	4' x 14' x 32'
	340'-0	26B	144	
25 TO 27	160'-0	16D	145	4' x 11' x 26'
	180'-0	18C	143	
	200'-0	18D	143	4' x 11' x 28'
	220'-0	20A	143	
	240'-0	21B	142	4' x 11' x 30'
	260'-0	22A	146	
	280'-0	23B	145	4' x 12' x 32'
	300'-0	25A	144	
	320'-0	25B	145	4' x 14' x 32'
	340'-0	26B	146	
28 TO 30	160'-0	17D	143	4' x 11' x 26'
	180'-0	18C	146	
	200'-0	18D	146	4' x 11' x 28'
	220'-0	20A	146	
	240'-0	21B	145	4' x 11' x 30'
	260'-0	23A	144	
	280'-0	24B	141	4' x 12' x 32'
	300'-0	25A	145	
	320'-0	26B	142	4' x 14' x 32'
	340'-0	27A	144	
31 TO 33	160'-0	17D	146	4' x 11' x 26'
	180'-0	18D	141	
	200'-0	19A	144	4' x 11' x 28'
	220'-0	21A	144	
	240'-0	22A	141	4' x 11' x 30'
	260'-0	23A	146	
	280'-0	24B	143	4' x 12' x 32'
	300'-0	26A	143	
	320'-0	26B	143	4' x 14' x 32'
	340'-0	27A	146	
34 TO 36	160'-0	17E	144	4' x 11' x 28'
	180'-0	18D	144	
	200'-0	19A	147	
	220'-0	21A	146	4' x 11' x 30'
	240'-0	22A	144	
	260'-0	24A	144	4' x 12' x 32'
	280'-0	24B	145	
	300'-0	26A	145	4' x 14' x 32'
	320'-0	26B	145	
	340'-0	28A	143	4' x 14' x 32'

H IN FT.	CL IN FT.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	① LRFD P _u , STRENGTH I, DES. LOAD (KIPS)	
37 TO 40	160'-0	18D	139	4' x 11' x 28'
	180'-0	19A	142	
	200'-0	20A	144	4' x 11' x 30'
	220'-0	21B	142	
	240'-0	22A	146	4' x 12' x 32'
	260'-0	24A	147	
	280'-0	25A	143	4' x 12' x 32'
	300'-0	26A	147	
	320'-0	26B	147	4' x 14' x 32'
	340'-0	28A	145	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
4' x 9' x 24'	d2	54 - #9 AS SHOWN	9'-1	1668	2818	32.0
	f1	24 - #5 @ 1'-0	8'-8	217		
	f2	9 - #5 @ 1'-0	23'-8	222		
	g1	30 - #6 @ 0'-9 1/2	8'-8	391		
	g2	9 - #6 @ 1'-0	23'-8	320		
4' x 10' x 24'	d2	54 - #9 AS SHOWN	9'-1	1668	3085	35.6
	f1	24 - #5 @ 1'-0	9'-8	242		
	f2	10 - #5 @ 1'-0	23'-8	247		
	g1	29 - #7 @ 0'-10	9'-8	573		
	g2	10 - #6 @ 1'-0	23'-8	355		
4' x 10' x 26'	d2	54 - #9 AS SHOWN	9'-1	1668	3453	38.5
	f1	26 - #5 @ 1'-0	9'-8	262		
	f2	10 - #5 @ 1'-0	25'-8	268		
	g1	29 - #7 @ 0'-10 1/2	9'-8	573		
	g2	13 - #7 @ 0'-9 1/2	25'-8	682		
4' x 11' x 26'	d2	54 - #9 AS SHOWN	9'-1	1668	3702	42.4
	f1	26 - #5 @ 1'-0	10'-8	289		
	f2	11 - #5 @ 1'-0	25'-8	294		
	g1	27 - #8 @ 0'-11 1/2	10'-8	769		
	g2	13 - #7 @ 0'-10 1/2	25'-8	682		
4' x 11' x 28'	d2	54 - #9 AS SHOWN	9'-1	1668	4288	45.6
	f1	28 - #5 @ 1'-0	10'-8	312		
	f2	11 - #5 @ 1'-0	27'-8	317		
	g1	31 - #8 @ 0'-11	10'-8	883		
	g2	15 - #8 @ 0'-9	27'-8	1108		
4' x 11' x 30'	d2	54 - #9 AS SHOWN	9'-1	1668	4842	48.9
	f1	30 - #5 @ 1'-0	10'-8	334		
	f2	11 - #5 @ 1'-0	29'-8	340		
	g1	30 - #9 @ 1'-0	10'-8	1088		
	g2	14 - #9 @ 0'-9 1/2	29'-8	1412		
4' x 12' x 32'	d2	54 - #9 AS SHOWN	9'-1	1668	6004	56.9
	f1	32 - #5 @ 1'-0	11'-8	389		
	f2	12 - #5 @ 1'-0	31'-8	396		
	g1	38 - #9 @ 0'-10	11'-8	1507		
	g2	15 - #10 @ 0'-9 1/2	31'-8	2044		
4' x 14' x 32'	d2	54 - #9 AS SHOWN	9'-1	1668	6987	66.4
	f1	32 - #5 @ 1'-0	13'-8	456		
	f2	14 - #5 @ 1'-0	31'-8	462		
	g1	39 - #9 @ 0'-9 1/2	13'-8	1812		
	g2	19 - #10 @ 0'-9	31'-8	2589		

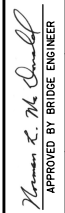

① NOTE: P_u, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.
 NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.
 NOTE: THE PILE TYPE IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

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 RS40-126-14.
 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.

02-2017 LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER 	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES OCTOBER, 2014
	TEE PIER-HP10x57 SRL-1 STEEL PILE FOOTINGS 10° SKEW - SHEET 1
	RS40-128-14