

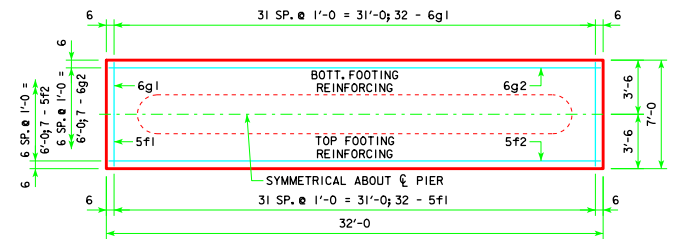
H IN FT.	CL - CL ABUT. BRG.	FOOTING SIZE	H IN FT.	CL - CL ABUT. BRG.	FOOTING SIZE	
16 TO 18	160'-0	4' x 7' x 32'	37 TO 40	160'-0	4' x 8' x 36'	
	180'-0	4' x 7' x 34'		180'-0	4' x 9' x 36'	
	200'-0	4' x 7' x 34'		200'-0	4' x 9' x 36'	
	220'-0	4' x 8' x 34'		220'-0	4' x 9' x 36'	
	240'-0	4' x 8' x 34'		240'-0	4' x 10' x 38'	
	260'-0	4' x 8' x 36'		260'-0	4' x 10' x 38'	
	280'-0	4' x 8' x 36'		280'-0	4' x 10' x 38'	
19 TO 21	300'-0	4' x 9' x 36'	37 TO 40	300'-0	4' x 10' x 38'	
	320'-0	4' x 9' x 36'		320'-0	4' x 10' x 38'	
	340'-0	4' x 9' x 36'		340'-0	4' x 10' x 38'	
	160'-0	4' x 7' x 32'		37 TO 40	160'-0	4' x 8' x 34'
	180'-0	4' x 7' x 34'			180'-0	4' x 9' x 36'
	200'-0	4' x 7' x 34'			200'-0	4' x 9' x 36'
	220'-0	4' x 8' x 34'			220'-0	4' x 9' x 36'
240'-0	4' x 8' x 34'	240'-0	4' x 10' x 38'			
260'-0	4' x 8' x 36'	260'-0	4' x 10' x 38'			
280'-0	4' x 8' x 36'	280'-0	4' x 10' x 38'			
22 TO 24	300'-0	4' x 9' x 36'	37 TO 40	300'-0	4' x 10' x 38'	
	320'-0	4' x 9' x 36'		320'-0	4' x 10' x 38'	
	340'-0	4' x 9' x 36'		340'-0	4' x 10' x 38'	
	160'-0	4' x 7' x 32'		37 TO 40	160'-0	4' x 8' x 34'
	180'-0	4' x 7' x 34'			180'-0	4' x 9' x 36'
	200'-0	4' x 7' x 34'			200'-0	4' x 9' x 36'
	220'-0	4' x 8' x 34'			220'-0	4' x 9' x 36'
240'-0	4' x 8' x 34'	240'-0	4' x 10' x 38'			
260'-0	4' x 8' x 36'	260'-0	4' x 10' x 38'			
280'-0	4' x 8' x 36'	280'-0	4' x 10' x 38'			
25 TO 27	300'-0	4' x 9' x 36'	37 TO 40	300'-0	4' x 10' x 38'	
	320'-0	4' x 9' x 36'		320'-0	4' x 10' x 38'	
	340'-0	4' x 9' x 36'		340'-0	4' x 10' x 38'	
	160'-0	4' x 7' x 32'		37 TO 40	160'-0	4' x 8' x 34'
	180'-0	4' x 7' x 34'			180'-0	4' x 9' x 36'
	200'-0	4' x 7' x 34'			200'-0	4' x 9' x 36'
	220'-0	4' x 8' x 34'			220'-0	4' x 9' x 36'
240'-0	4' x 8' x 34'	240'-0	4' x 10' x 38'			
260'-0	4' x 8' x 36'	260'-0	4' x 10' x 38'			
280'-0	4' x 8' x 36'	280'-0	4' x 10' x 38'			
28 TO 30	300'-0	4' x 9' x 36'	37 TO 40	300'-0	4' x 10' x 38'	
	320'-0	4' x 9' x 36'		320'-0	4' x 10' x 38'	
	340'-0	4' x 9' x 36'		340'-0	4' x 10' x 38'	
	160'-0	4' x 7' x 32'		37 TO 40	160'-0	4' x 8' x 34'
	180'-0	4' x 7' x 34'			180'-0	4' x 9' x 36'
	200'-0	4' x 7' x 34'			200'-0	4' x 9' x 36'
	220'-0	4' x 8' x 34'			220'-0	4' x 9' x 36'
240'-0	4' x 8' x 34'	240'-0	4' x 10' x 38'			
260'-0	4' x 8' x 36'	260'-0	4' x 10' x 38'			
280'-0	4' x 8' x 36'	280'-0	4' x 10' x 38'			
31 TO 33	300'-0	4' x 9' x 36'	37 TO 40	300'-0	4' x 10' x 38'	
	320'-0	4' x 9' x 36'		320'-0	4' x 10' x 38'	
	340'-0	4' x 9' x 36'		340'-0	4' x 10' x 38'	
	160'-0	4' x 7' x 32'		37 TO 40	160'-0	4' x 8' x 34'
	180'-0	4' x 7' x 34'			180'-0	4' x 9' x 36'
	200'-0	4' x 7' x 34'			200'-0	4' x 9' x 36'
	220'-0	4' x 8' x 34'			220'-0	4' x 9' x 36'
240'-0	4' x 8' x 34'	240'-0	4' x 10' x 38'			
260'-0	4' x 8' x 36'	260'-0	4' x 10' x 38'			
280'-0	4' x 8' x 36'	280'-0	4' x 10' x 38'			
34 TO 36	300'-0	4' x 9' x 36'	37 TO 40	300'-0	4' x 10' x 38'	
	320'-0	4' x 9' x 36'		320'-0	4' x 10' x 38'	
	340'-0	4' x 9' x 36'		340'-0	4' x 10' x 38'	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
4' x 7' x 32'	d2	74 - #9 AS SHOWN	9'-11"	2495	3602	33.2
	f1	32 - #5 @ 1'-0"	6'-8"	223		
	f2	7 - #5 @ 1'-0"	31'-8"	231		
	g1	32 - #6 @ 1'-0"	6'-8"	320		
	g2	7 - #6 @ 1'-0"	31'-8"	333		
	d2	74 - #9 AS SHOWN	9'-11"	2495		
4' x 7' x 34'	f1	34 - #5 @ 1'-0"	6'-8"	236	3772	35.3
	f2	7 - #5 @ 1'-0"	33'-8"	246		
	g1	34 - #6 @ 1'-0"	6'-8"	340		
	g2	9 - #6 @ 0'-9 1/2"	33'-8"	455		
	d2	74 - #9 AS SHOWN	9'-11"	2495		
	f1	34 - #5 @ 1'-0"	7'-8"	272		
4' x 8' x 34'	f2	8 - #5 @ 1'-0"	33'-8"	281	3946	40.3
	g1	34 - #6 @ 1'-0"	7'-8"	392		
	g2	10 - #6 @ 0'-10"	33'-8"	506		
	d2	74 - #9 AS SHOWN	9'-11"	2495		
	f1	36 - #5 @ 1'-0"	7'-8"	288		
	f2	8 - #5 @ 1'-0"	35'-8"	298		
4' x 8' x 36'	g1	36 - #6 @ 1'-0"	7'-8"	415	4444	42.7
	g2	13 - #7 @ 0'-7 1/2"	35'-8"	948		
	d2	74 - #9 AS SHOWN	9'-11"	2495		
	f1	36 - #5 @ 1'-0"	8'-8"	325		
	f2	9 - #5 @ 1'-0"	35'-8"	335		
	g1	44 - #6 @ 0'-9 1/2"	8'-8"	573		
4' x 9' x 36'	g2	11 - #8 @ 0'-10"	35'-8"	1048	4776	48.0
	d2	74 - #9 AS SHOWN	9'-11"	2495		
	f1	38 - #5 @ 1'-0"	8'-8"	343		
	f2	9 - #5 @ 1'-0"	37'-8"	354		
	g1	47 - #6 @ 0'-9 1/2"	8'-8"	612		
	g2	16 - #8 @ 0'-6 1/2"	37'-8"	1609		
4' x 9' x 38'	d2	74 - #9 AS SHOWN	9'-11"	2495	5413	50.7
	f1	38 - #5 @ 1'-0"	9'-8"	383		
	f2	10 - #5 @ 1'-0"	37'-8"	393		
	g1	47 - #7 @ 0'-9 1/2"	9'-8"	929		
	g2	17 - #8 @ 0'-7"	37'-8"	1710		
	d2	74 - #9 AS SHOWN	9'-11"	2495		
4' x 10' x 38'	f1	40 - #5 @ 1'-0"	9'-8"	403	5910	56.3
	f2	10 - #5 @ 1'-0"	39'-8"	414		
	g1	50 - #7 @ 0'-9 1/2"	9'-8"	988		
	g2	17 - #9 @ 0'-7"	39'-8"	2293		
	d2	74 - #9 AS SHOWN	9'-11"	2495		
	f1	38 - #5 @ 1'-0"	9'-8"	383		
4' x 10' x 40'	f2	10 - #5 @ 1'-0"	39'-8"	414	6593	59.3
	g1	50 - #7 @ 0'-9 1/2"	9'-8"	988		
	g2	17 - #9 @ 0'-7"	39'-8"	2293		

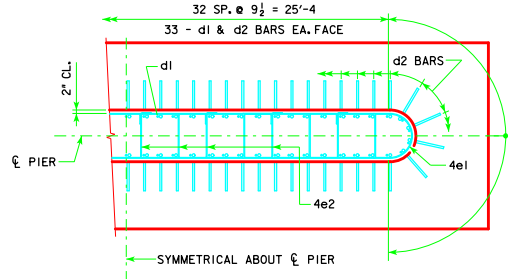
NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.
 NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

FOOTING NOTES:

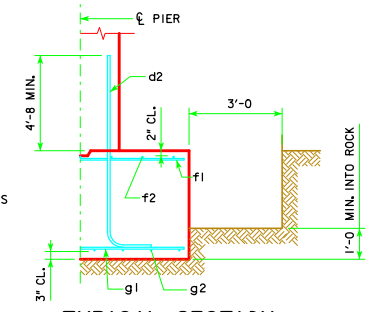
THESE SPREAD FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET RS40-156-14.
 THESE SPREAD FOOTINGS SHALL EXTEND AT LEAST 12 INCHES INTO SUITABLE FOUNDATION ROCK AND THE LAST 12 INCHES OF ROCK EXCAVATION SHALL BE TO NEAT LINES OF MASONRY. THE FOUNDATION ROCK SHALL HAVE A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 30 KIPS PER SQUARE FOOT (ALLOWABLE BEARING VALUE OF AT LEAST 10 KIPS PER SQUARE FOOT).



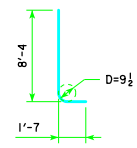
4'-0 x 7'-0 x 32'-0



d2 LAYOUT
(SEE SECTION A-A ON SHEET RS40-156-14.)



TYPICAL SECTION



d2
NOTE: D = PIN DIAMETER. DIMENSIONS ARE OUT TO OUT.

LATEST REVISION DATE <i>Thomas E. McQuinn</i> APPROVED BY BRIDGE ENGINEER	
	STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES OCTOBER, 2014
	TEE PIER - SPREAD FOOTINGS 45° SKEW - SHEET 1

RS40-164-14