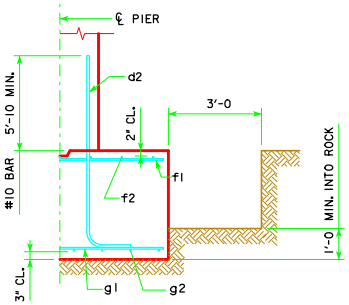
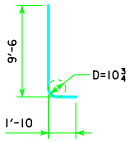
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
25 TO 27	138'-10	4' x 9' x 26'
	151'-4	
	163'-10	
	176'-4	4' x 9' x 28'
	188'-10	
	201'-4	4' x 9' x 30'
	213'-10	
	226'-4	4' x 9' x 32'
	243'-0	
28 TO 30	138'-10	4' x 9' x 26'
	151'-4	
	163'-10	4' x 9' x 28'
	176'-4	
	188'-10	
	201'-4	4' x 9' x 30'
	213'-10	4' x 9' x 32'
	226'-4	
	243'-0	
31 TO 33	138'-10	4' x 9' x 26'
	151'-4	4' x 9' x 28'
	163'-10	
	176'-4	
	188'-10	4' x 9' x 30'
	201'-4	
	213'-10	4' x 9' x 32'
	226'-4	
	243'-0	4' x 10' x 32'
34 TO 36	138'-10	4' x 9' x 26'
	151'-4	4' x 9' x 28'
	163'-10	
	176'-4	4' x 9' x 30'
	188'-10	
	201'-4	4' x 9' x 32'
	213'-10	
	226'-4	4' x 10' x 32'
	243'-0	
37 TO 40	138'-10	4' x 9' x 28'
	151'-4	
	163'-10	4' x 9' x 30'
	176'-4	
	188'-10	
	201'-4	4' x 9' x 32'
	213'-10	
	226'-4	4' x 10' x 32'
	243'-0	



TYPICAL SECTION

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

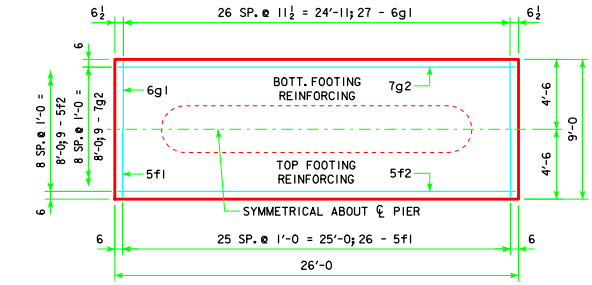
NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.



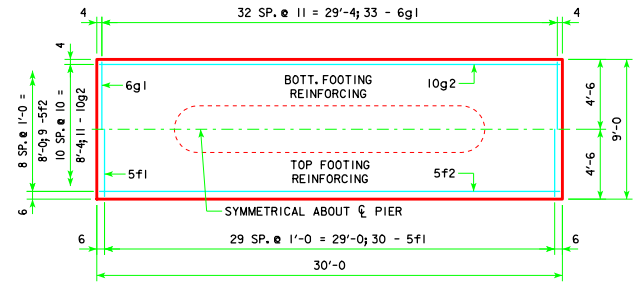
d2

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

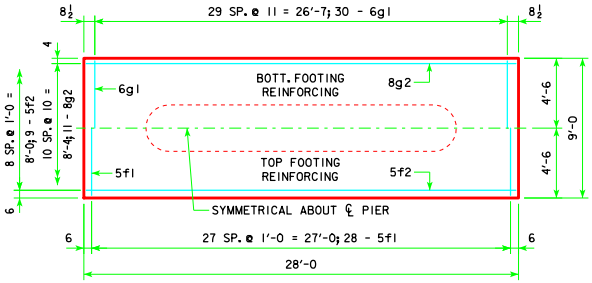
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	
4' x 9' x 26'	d2	48 - #10 AS SHOWN	11'-4	2341	3640	34.7
	f1	26 - #5 @ 1'-0	8'-8	235		
	f2	9 - #5 @ 1'-0	25'-8	241		
	g1	27 - #6 @ 0'-11½	8'-8	351		
	g2	9 - #7 @ 1'-0	25'-8	472		
4' x 9' x 28'	d2	48 - #10 AS SHOWN	11'-4	2341	4058	37.3
	f1	28 - #5 @ 1'-0	8'-8	253		
	f2	9 - #5 @ 1'-0	27'-8	260		
	g1	30 - #6 @ 0'-11	8'-8	391		
	g2	11 - #8 @ 0'-10	27'-8	813		
4' x 9' x 30'	d2	48 - #10 AS SHOWN	11'-4	2341	4724	40.0
	f1	30 - #5 @ 1'-0	8'-8	271		
	f2	9 - #5 @ 1'-0	29'-8	278		
	g1	33 - #6 @ 0'-11	8'-8	430		
	g2	11 - #10 @ 0'-10	29'-8	1404		
4' x 9' x 32'	d2	48 - #10 AS SHOWN	11'-4	2341	5265	42.7
	f1	32 - #5 @ 1'-0	8'-8	289		
	f2	9 - #5 @ 1'-0	31'-8	297		
	g1	32 - #7 @ 1'-0	8'-8	567		
	g2	13 - #10 @ 0'-8½	31'-8	1771		
4' x 10' x 32'	d2	48 - #10 AS SHOWN	11'-4	2341	5594	47.4
	f1	32 - #5 @ 1'-0	9'-8	323		
	f2	10 - #5 @ 1'-0	31'-8	330		
	g1	35 - #7 @ 0'-11	9'-8	692		
	g2	14 - #10 @ 0'-8½	31'-8	1908		



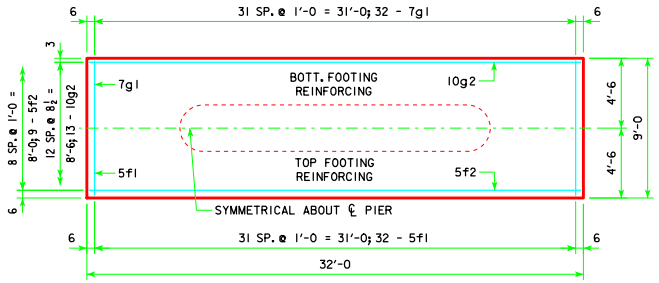
4'-0 x 9'-0 x 26'-0



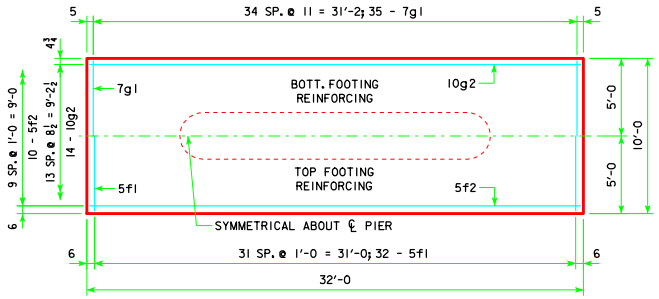
4'-0 x 9'-0 x 30'-0



4'-0 x 9'-0 x 28'-0



4'-0 x 9'-0 x 32'-0

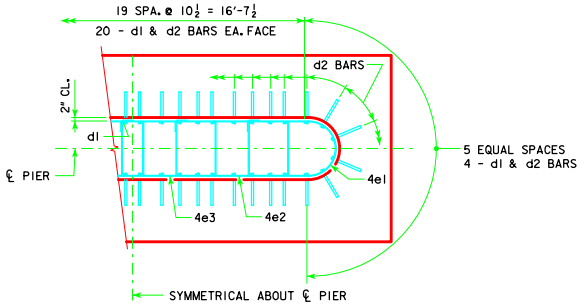


4'-0 x 10'-0 x 32'-0

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 H40-73-14.

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 SERVICE LOAD BEARING VALUE OF AT LEAST 10 KIPS PER SQUARE FOOT).



d2 LAYOUT

(SEE SECTION A-A ON SHEET H40-73-14.)

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

IOWA DOT Highway Division

STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

SEPTEMBER, 2014

TEE PIER - SPREAD FOOTINGS

30° SKEW - H=25' TO 40'

H40-80-14