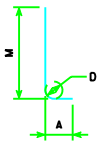
H IN FT.	℄ - ℄ ABUT. BRG.	MIN. BRG. (TSF)	FOOTING SIZE
25 TO 27	138'-10	5	4' x 7' x 24'
	151'-4		
	163'-10		
	176'-4		
	188'-10		
	201'-4		
	213'-10		
	226'-4		
	243'-0		
28 TO 30	138'-10	4	4' x 8' x 24'
	151'-4		
	163'-10		
	176'-4	5	
	188'-10		
	201'-4		
	213'-10		
	226'-4		
	243'-0		
31 TO 33	201'-4	5	4' x 8' x 24'
	213'-10		
	226'-4	5	4' x 9' x 24'
	243'-0		
34 TO 36	201'-4	5	4' x 9' x 24'
	213'-10		
	226'-4		
	243'-0		
37 TO 40	201'-4	5	4' x 10' x 25'
	213'-10		
	226'-4		
	243'-0		

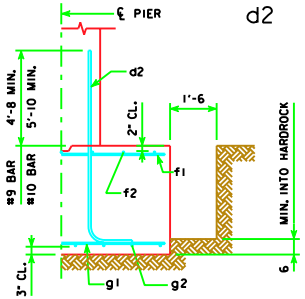
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 7' x 24'	d2	30 - #9 AS SHOWN	9'-11	1012	3018	24.9
	f1	24 - #5 @ 1'-0	6'-8	167		
	f2	7 - #5 @ 1'-0	23'-8	173		
	g1	24 - #6 AS SHOWN	6'-8	240		
	g2	14 - #10 @ 0'-6	23'-8	1426		
4' x 8' x 24'	d2	30 - #9 AS SHOWN	9'-11	1012	3412	28.4
	f1	24 - #5 @ 1'-0	7'-8	192		
	f2	8 - #5 @ 1'-0	23'-8	197		
	g1	24 - #7 AS SHOWN	7'-8	376		
	g2	13 - #11 @ 0'-7½	23'-8	1635		
4' x 9' x 24'	d2	30 - #9 AS SHOWN	9'-11	1012	3737	32.0
	f1	24 - #5 @ 1'-0	8'-8	217		
	f2	9 - #5 @ 1'-0	23'-8	222		
	g1	24 - #8 AS SHOWN	8'-8	555		
	g2	17 - #10 @ 0'-6	23'-8	1731		
4' x 10' x 25'	d2	30 - #10 AS SHOWN	11'-4	1463	4917	37.0
	f1	25 - #5 @ 1'-0	9'-8	252		
	f2	10 - #5 @ 1'-0	24'-8	257		
	g1	25 - #9 AS SHOWN	9'-8	822		
	g2	20 - #10 @ 0'-6	24'-8	2123		



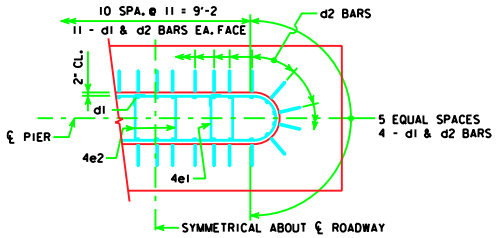
d2

d2 DIMENSIONS			
H IN FT.	D	M	A
25 TO 36	9½	8'-4	1'-7
37 TO 40	10¾	9'-6	1'-10

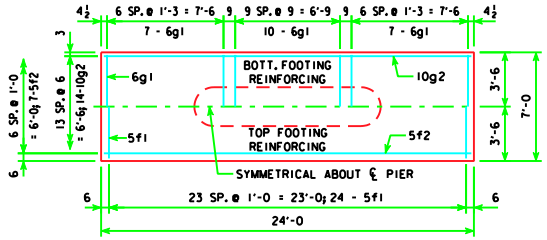
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.



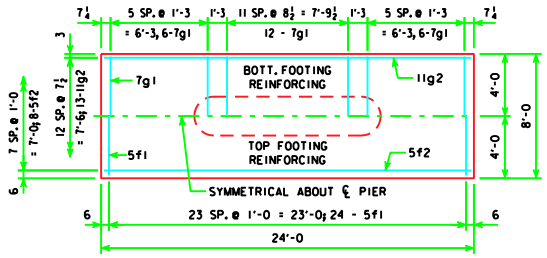
TYPICAL SECTION



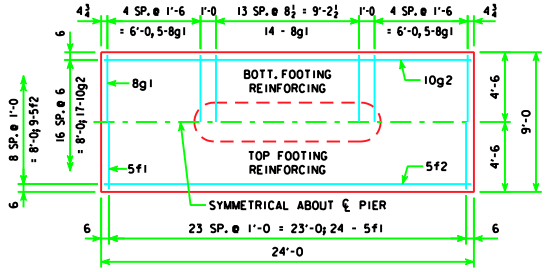
d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H24-51-06.)



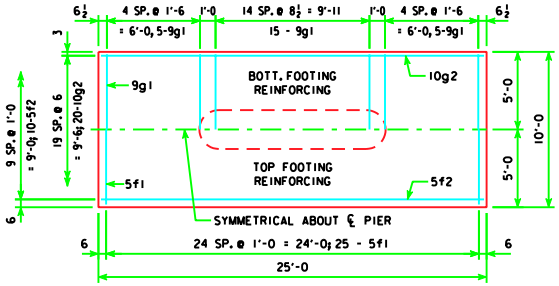
4'-0 x 7'-0 x 24'-0



4'-0 x 8'-0 x 24'-0



4'-0 x 9'-0 x 24'-0



4'-0 x 10'-0 x 25'-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 H24-51-06.

THESE SPREAD FOOTINGS SHALL EXTEND AT LEAST 6 INCHES INTO SUITABLE FOUNDATION ROCK AND THE LAST 6 INCHES OF ROCK EXCAVATION SHALL BE TO NEAT LINES OF MASONRY. SEE TABLE FOR MINIMUM ALLOWABLE BEARING VALUE REQUIRED FOR THE FOUNDATION ROCK.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN STANDARD FOR THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER 2006 HS25 SUBSTRUCTURE

TEE PIER - SPREAD FOOTINGS, H=25' TO 40'
15° SKEW

H24-55-06