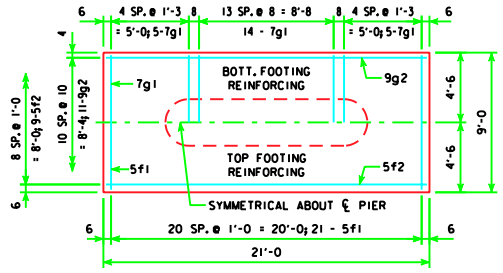
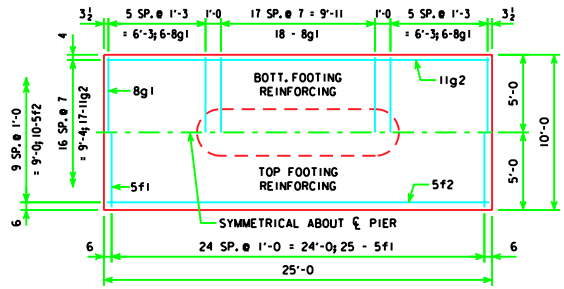
H IN FT.	℄ - ℄ ABUT. BRG.	MIN. BRG. (TSF)	FOOTING SIZE
25 TO 27	138'-10	4	4' x 9' x 21'
	151'-4		
	163'-10	5	
	176'-4		
	188'-10		
	201'-4		
	213'-10		
	226'-4		
	243'-0		
28 TO 30	138'-10	4	4' x 9' x 23'
	151'-4		
	163'-10		
	176'-4	5	
	188'-10		
	201'-4		
	213'-10		
	226'-4		
	243'-0		
31 TO 33	201'-4	5	4' x 10' x 23'
	213'-10		
	226'-4		
	243'-0		
34 TO 36	201'-4	5	4' x 10' x 23'
	213'-10		
	226'-4		
	243'-0		
37 TO 40	201'-4	5	4' x 10' x 25'
	213'-10		
	226'-4		
	243'-0		

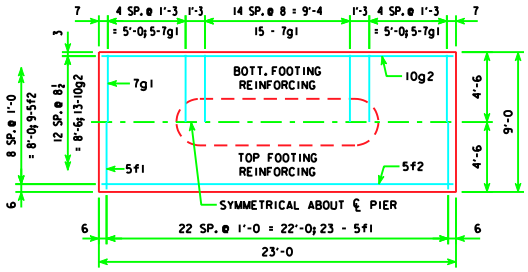
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	
4' x 9' x 21'	d2	30 - #10 AS SHOWN	11'-4	1463	3045	28.0
	f1	21 - #5 @ 1'-0	8'-8	190		
	f2	9 - #5 @ 1'-0	20'-8	194		
	g1	24 - #7 AS SHOWN	8'-8	425		
	g2	11 - #9 @ 0'-10	20'-8	773		
4' x 9' x 23'	d2	30 - #10 AS SHOWN	11'-4	1463	3595	30.7
	f1	23 - #5 @ 1'-0	8'-8	208		
	f2	9 - #5 @ 1'-0	22'-8	213		
	g1	25 - #7 AS SHOWN	8'-8	443		
	g2	13 - #10 @ 0'-8½	22'-8	1268		
4' x 10' x 23'	d2	30 - #10 AS SHOWN	11'-4	1463	4117	34.1
	f1	23 - #5 @ 1'-0	9'-8	232		
	f2	10 - #5 @ 1'-0	22'-8	236		
	g1	28 - #8 AS SHOWN	9'-8	723		
	g2	15 - #10 @ 0'-8	22'-8	1463		
4' x 10' x 25'	d2	30 - #10 AS SHOWN	11'-4	1463	4974	37.0
	f1	25 - #5 @ 1'-0	9'-8	252		
	f2	10 - #5 @ 1'-0	24'-8	257		
	g1	30 - #8 AS SHOWN	9'-8	774		
	g2	17 - #11 @ 0'-7	24'-8	2228		



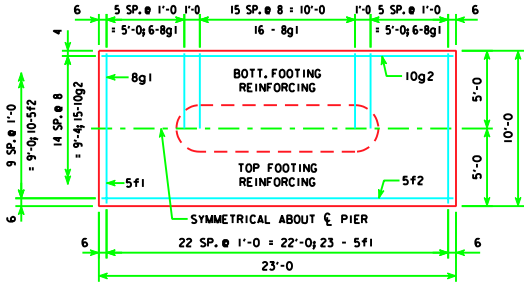
4'-0 x 9'-0 x 21'-0



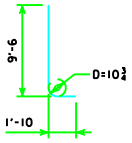
4'-0 x 10'-0 x 25'-0



4'-0 x 9'-0 x 23'-0

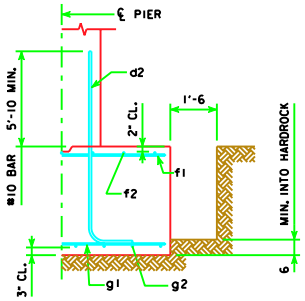


4'-0 x 10'-0 x 23'-0

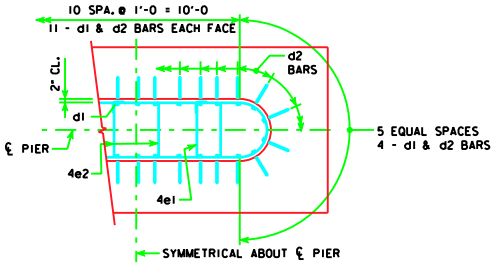


d2

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



TYPICAL SECTION



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H24-56-06.)

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 H24-56-06.

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'
30° SKEW

H24-60-06