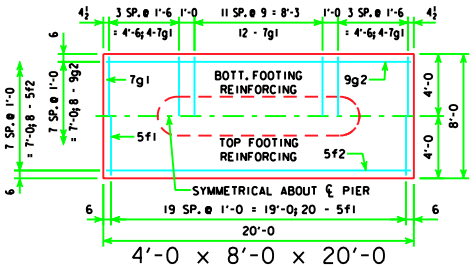
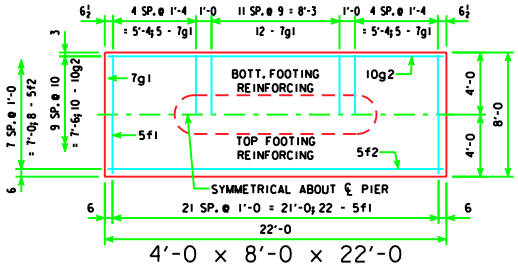
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
25 TO 27	138'-10	4' x 8' x 20'
	151'-4	
	163'-10	
	176'-4	4' x 8' x 22'
	188'-10	
	201'-4	
	213'-10	
	226'-4	
	243'-0	
28 TO 30	138'-10	4' x 8' x 22'
	151'-4	
	163'-10	
	176'-4	
	188'-10	
	201'-4	4' x 8' x 24'
	213'-10	
	226'-4	
	243'-0	
31 TO 33	138'-10	4' x 8' x 22'
	151'-4	
	163'-10	
	176'-4	4' x 8' x 24'
	188'-10	
	201'-4	
	213'-10	
	226'-4	4' x 9' x 24'
	243'-0	
34 TO 36	138'-10	4' x 8' x 24'
	151'-4	
	163'-10	
	176'-4	
	188'-10	4' x 9' x 24'
	201'-4	
	213'-10	
	226'-4	
	243'-0	
37 TO 40	138'-10	4' x 10' x 24'
	151'-4	
	163'-10	
	176'-4	
	188'-10	
	201'-4	
	213'-10	
	226'-4	
	243'-0	

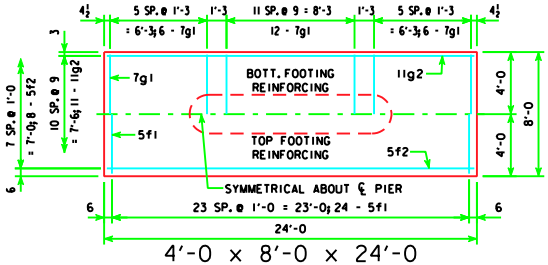
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	
4' x 8' x 20'	d2	32 - #9 AS SHOWN	9'-11	1079	2251	23.7
	f1	20 - #5 @ 1'-0	7'-8	160		
	f2	8 - #5 @ 1'-0	19'-8	164		
	g1	20 - #7 AS SHOWN	7'-8	313		
	g2	8 - #9 @ 1'-0	19'-8	535		
4' x 8' x 22'	d2	32 - #9 AS SHOWN	9'-11	1079	2713	26.1
	f1	22 - #5 @ 1'-0	7'-8	176		
	f2	8 - #5 @ 1'-0	21'-8	181		
	g1	22 - #7 AS SHOWN	7'-8	345		
	g2	10 - #10 @ 0'-10	21'-8	932		
4' x 8' x 24'	d2	32 - #9 AS SHOWN	9'-11	1079	3227	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	11 - #11 @ 0'-9	23'-8	1383		
4' x 9' x 24'	d2	32 - #9 AS SHOWN	9'-11	1079	3732	32.0
	f1	24 - #5 @ 1'-0	8'-8	217		
	f2	9 - #5 @ 1'-0	23'-8	222		
	g1	25 - #8 AS SHOWN	8'-8	579		
	g2	13 - #11 @ 0'-8½	23'-8	1635		
4' x 10' x 24'	d2	32 - #10 AS SHOWN	11'-4	1561	4507	35.6
	f1	24 - #5 @ 1'-0	9'-8	242		
	f2	10 - #5 @ 1'-0	23'-8	247		
	g1	25 - #9 AS SHOWN	9'-8	822		
	g2	13 - #11 @ 0'-9½	23'-8	1635		



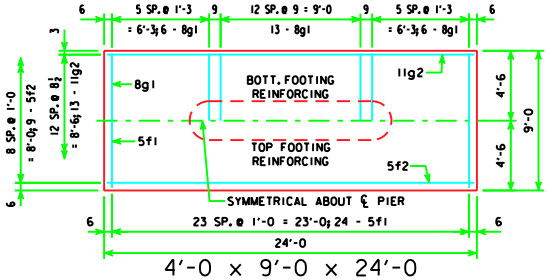
4'-0 x 8'-0 x 20'-0



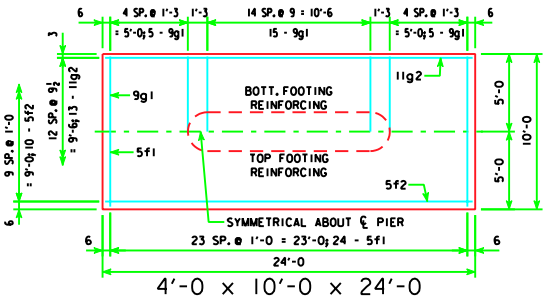
4'-0 x 8'-0 x 22'-0



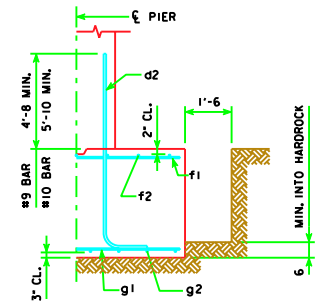
4'-0 x 8'-0 x 24'-0



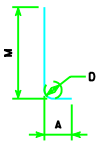
4'-0 x 9'-0 x 24'-0



4'-0 x 10'-0 x 24'-0



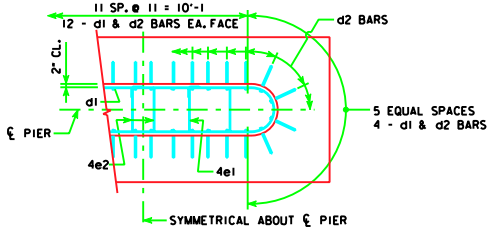
TYPICAL SECTION



d2

d2 DIMENSIONS			
H IN FT.	D	M	A
25 TO 36	9¾	8'-4	1'-7
37 TO 40	10¾	9'-6	1'-10

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



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H30-54-06.)

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 H30-54-06.

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. THE FOUNDATION ROCK SHALL HAVE AN ALLOWABLE BEARING VALUE OF AT LEAST 5 TONS PER SQUARE FOOT.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

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

15° SKEW

H30-58-06