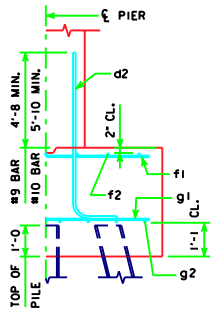
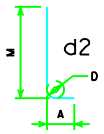
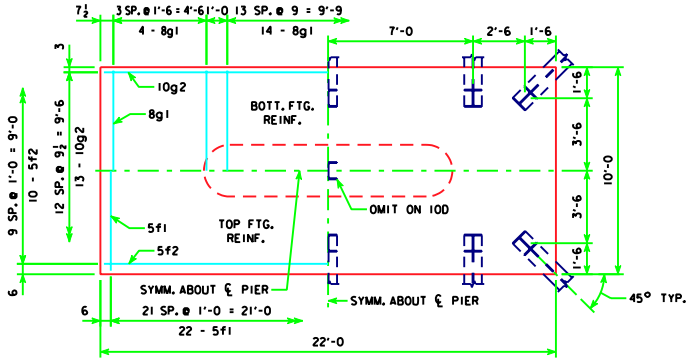


TYPICAL SECTION

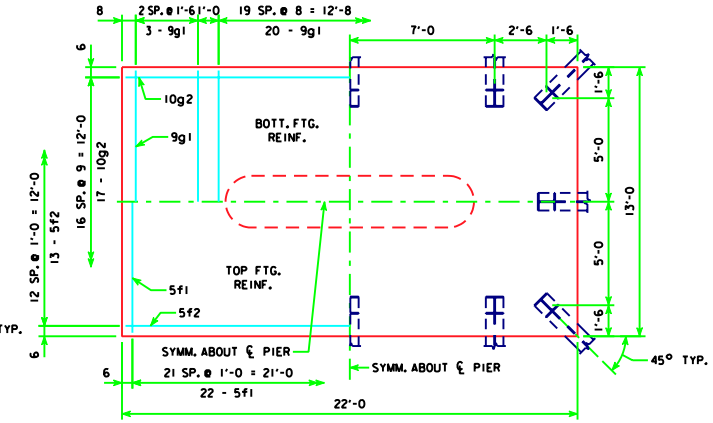


d2 DIMENSIONS			
H IN FT.	D	M	A
25 TO 36	$9\frac{1}{2}$	7'-6	1'-7
37 TO 40	$10\frac{3}{4}$	8'-8	1'-10

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

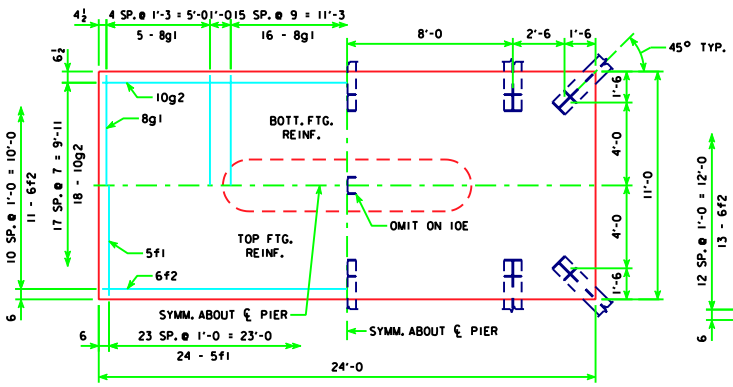


4'-0 x 10'-0 x 22'-0 FOR 10D & 11C

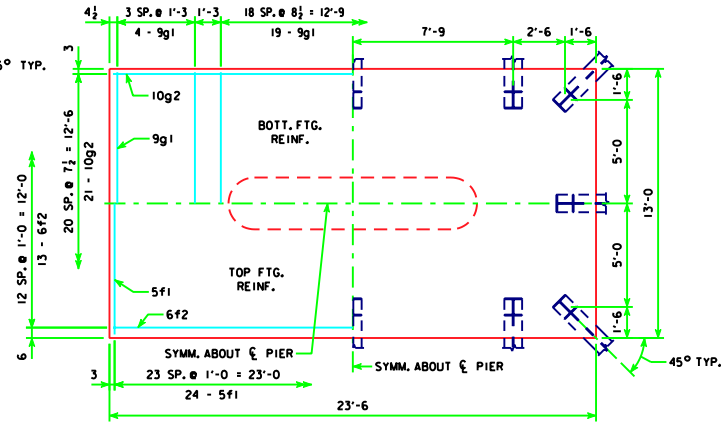


4'-0 x 13'-0 x 22'-0 FOR 12A

H IN FT.	℄ - ℄ ABUT. BRG.	PILING NO. & LAYOUT	PILING DES. BRG. (TONS)	FOOTING SIZE
25 TO 27	201'-4	10D	48	4' x 10' x 22'
	213'-10	10D	49	
	226'-4	11C	47	
	243'-0	11C	48	
28 TO 30	201'-4	10E	49	4' x 11' x 24'
	213'-10	10E	50	
	226'-4	11D	48	
	243'-0	11D	50	
31 TO 33	201'-4	10E	50	4' x 11' x 24'
	213'-10	11D	48	
	226'-4	11D	49	
	243'-0	11D	50	
34 TO 36	201'-4	12A	43	4' x 13' x 22'
	213'-10	12A	45	
	226'-4	12A	46	
	243'-0	12A	47	
37 TO 40	201'-4	12B	45	4' x 13' x 23'-6
	213'-10	12B	46	
	226'-4	12B	47	
	243'-0	12B	48	

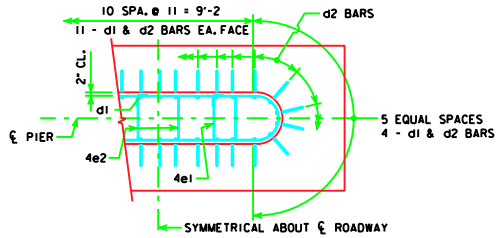


4'-0 x 11'-0 x 24'-0 FOR 10E & 11D



4'-0 x 13'-0 x 23'-6 FOR 12B

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
4' x 10' x 22'	d2	30 - #9 AS SHOWN	9'-1	926	3154	32.6
	f1	22 - #5 @ 1'-0	9'-8	222		
	f2	10 - #5 @ 1'-0	21'-8	226		
	g1	22 - #8 AS SHOWN	9'-8	568		
	g2	13 - #10 @ 0'-$9\frac{1}{2}$	21'-8	1212		
4' x 11' x 24'	d2	30 - #9 AS SHOWN	9'-1	926	4157	39.1
	f1	24 - #5 @ 1'-0	10'-8	267		
	f2	11 - #6 @ 1'-0	23'-8	391		
	g1	26 - #8 AS SHOWN	10'-8	740		
	g2	18 - #10 @ 0'-7	23'-8	1833		
4' x 13' x 22'	d2	30 - #9 AS SHOWN	9'-1	926	4216	42.4
	f1	22 - #5 @ 1'-0	12'-8	291		
	f2	13 - #5 @ 1'-0	21'-8	294		
	g1	26 - #9 AS SHOWN	12'-8	1120		
	g2	17 - #10 @ 0'-9	21'-8	1585		
4' x 13' x 23'-6	d2	30 - #10 AS SHOWN	10'-6	1355	5380	45.3
	f1	24 - #5 @ 1'-0	12'-8	317		
	f2	13 - #6 @ 1'-0	23'-2	452		
	g1	27 - #9 AS SHOWN	12'-8	1163		
	g2	21 - #10 @ 0'-$7\frac{1}{2}$	23'-2	2093		



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

NOTE:
SEE SHEET H24-52-06 FOR FOOTING NOTES.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN STANDARD DRAWING THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER 2006 HS25 SUBSTRUCTURE

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

H24-53-06