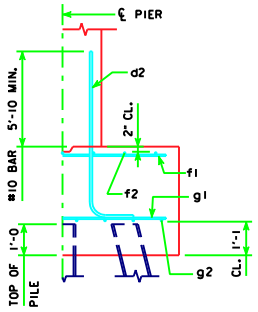
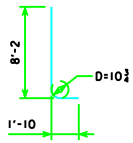
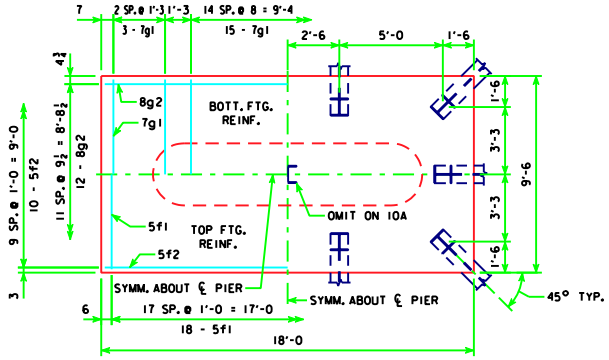


TYPICAL SECTION

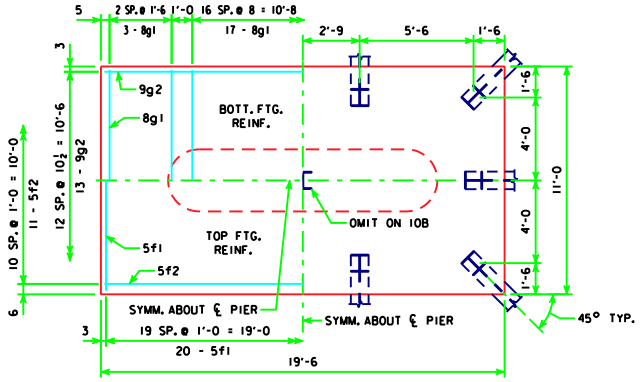


d2

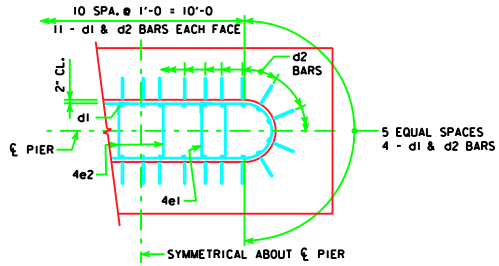
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.



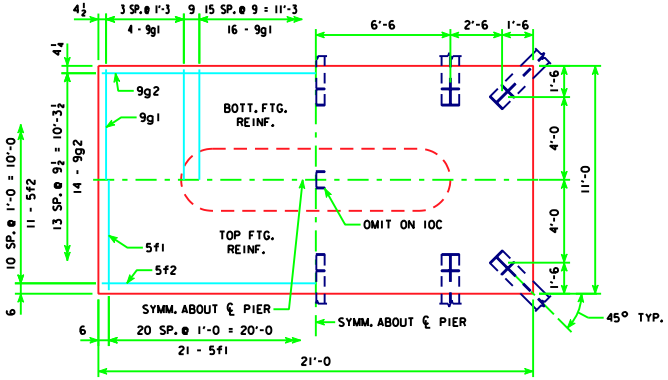
3'-6 x 9'-6 x 18'-0 FOR 10A & 11A



3'-6 x 11'-0 x 19'-6 FOR 10B & 11B



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



3'-6 x 11'-0 x 21'-0 FOR 10C & 11C

H IN FT.	℄ - ℄ ABUT. BRG.	PILING NO. & LAYOUT	PILING DES. BRG. (TONS)	FOOTING SIZE
16 TO 18	201'-4	10A	47	3'-6 x 9'-6 x 18'
	213'-10	10A	49	
	226'-4	10A	50	
	243'-0	11A	49	
19 TO 21	201'-4	10B	48	3'-6 x 11' x 19'-6
	213'-10	10B	50	
	226'-4	11B	48	
	243'-0	11B	49	
22 TO 24	201'-4	10C	49	3'-6 x 11' x 21'
	213'-10	10C	50	
	226'-4	11C	49	
	243'-0	11C	50	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 9'-6 x 18'	d2	30 - #10 AS SHOWN	10'-0	1291	2606	22.2
	f1	18 - #5 @ 1'-0	9'-2	172		
	f2	10 - #5 @ 1'-0	17'-8	184		
	g1	21 - #7 AS SHOWN	9'-2	393		
	g2	12 - #8 @ 0'-9½	17'-8	566		
3'-6 x 11' x 19'-6	d2	30 - #10 AS SHOWN	10'-0	1291	3236	27.8
	f1	20 - #5 @ 1'-0	10'-8	223		
	f2	11 - #5 @ 1'-0	19'-2	220		
	g1	23 - #8 AS SHOWN	10'-8	655		
	g2	13 - #9 @ 0'-10½	19'-2	847		
3'-6 x 11' x 21'	d2	30 - #10 AS SHOWN	10'-0	1291	3616	29.9
	f1	21 - #5 @ 1'-0	10'-8	234		
	f2	11 - #5 @ 1'-0	20'-8	237		
	g1	24 - #9 AS SHOWN	10'-8	870		
	g2	14 - #9 @ 0'-9½	20'-8	984		

FOOTING NOTES:

THESE 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.

BATTER PILES IN EXTERIOR ROWS 1:4 IN THE DIRECTION SHOWN.

PIER PILES (HP10x57) ARE TO BE DRIVEN TO THE DESIGN BEARING VALUE.

STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

TEE PIER - STEEL PILE FOOTINGS, H=16' TO 24'
30° SKEW

H24-57-06