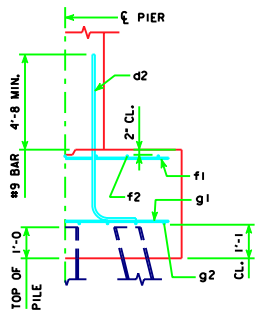
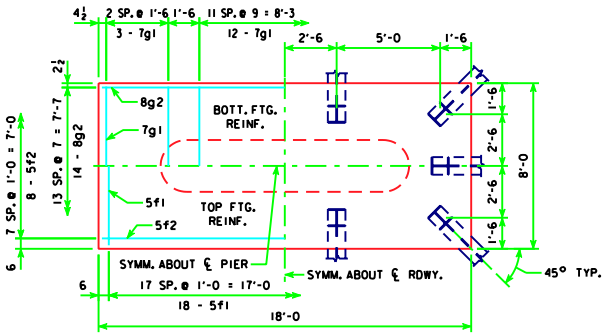
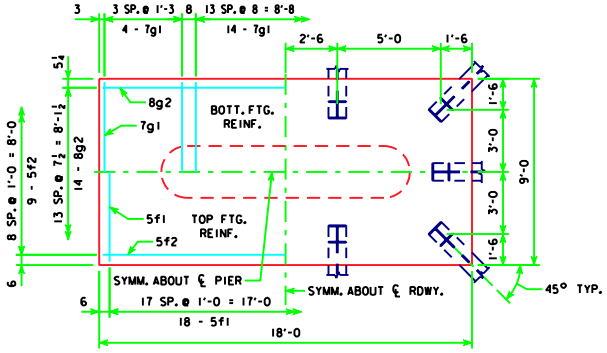


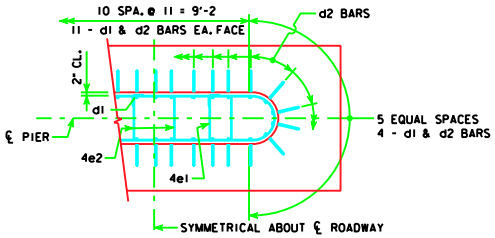
TYPICAL SECTION



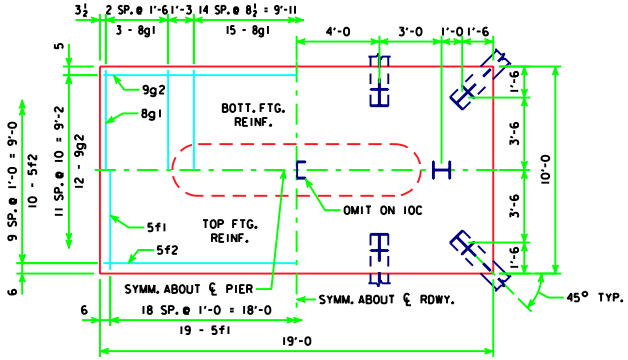
3'-6 x 8'-0 x 18'-0 FOR 10A



3'-6 x 9'-0 x 18'-0 FOR 10B

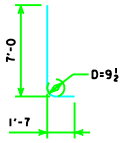


d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H24-46-06.)



3'-6 x 10'-0 x 19'-0 FOR 10C & 11A

H IN FT.	℄ - ℄ ABUT. BRG.	PILING NO. & LAYOUT	PILING DES. BRG. (TONS)	FOOTING SIZE
16 TO 18	201'-4	10A	44	3'-6 x 8' x 18'
	213'-10	10A	46	
	226'-4	10A	48	
	243'-0	10A	50	
19 TO 21	201'-4	10B	46	3'-6 x 9' x 18'
	213'-10	10B	47	
	226'-4	10B	49	
	243'-0	10B	50	
22 TO 24	201'-4	10C	47	3'-6 x 10' x 19'
	213'-10	10C	48	
	226'-4	10C	49	
	243'-0	11A	48	



d2

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

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 8' x 18'	d2	30 - #9 AS SHOWN	8'-7	876	2109	18.7
	f1	18 - #5 @ 1'-0	7'-8	144		
	f2	8 - #5 @ 1'-0	17'-8	147		
	g1	18 - #7 AS SHOWN	7'-8	282		
	g2	14 - #8 @ 0'-7	17'-8	660		
3'-6 x 9' x 18'	d2	30 - #9 AS SHOWN	8'-7	876	2255	21.0
	f1	18 - #5 @ 1'-0	8'-8	163		
	f2	9 - #5 @ 1'-0	17'-8	166		
	g1	22 - #7 AS SHOWN	8'-8	390		
	g2	14 - #8 @ 0'-7½	17'-8	660		
3'-6 x 10' x 19'	d2	30 - #9 AS SHOWN	8'-7	876	2567	24.6
	f1	19 - #5 @ 1'-0	9'-8	192		
	f2	10 - #5 @ 1'-0	18'-8	195		
	g1	21 - #8 AS SHOWN	9'-8	542		
	g2	12 - #9 @ 0'-10	18'-8	762		

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 H24-46-06.

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 STANDARD FOR THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
HL93 SUPERSTRUCTURE DECEMBER 2006 HS25 SUBSTRUCTURE

TEE PIER - STEEL PILE FOOTINGS, H=16' TO 24'
0° SKEW

H24-47-06