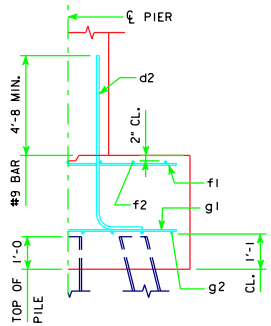
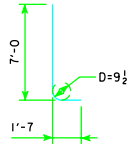
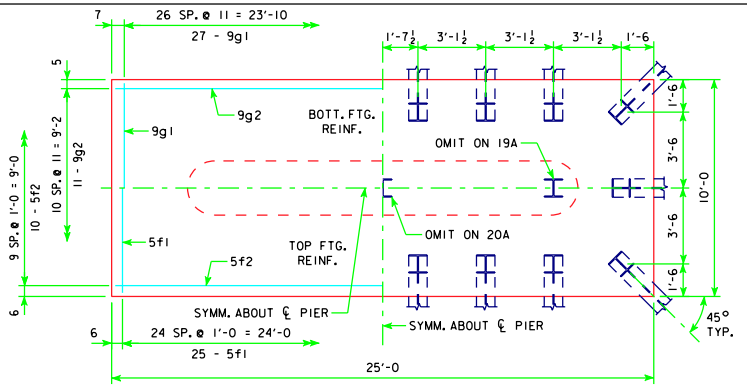


TYPICAL SECTION

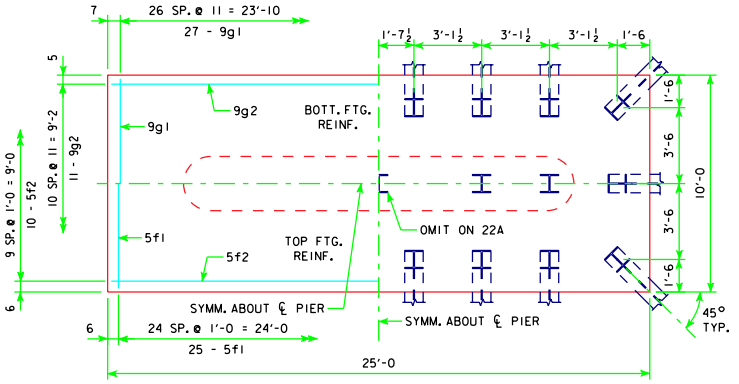


d2

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



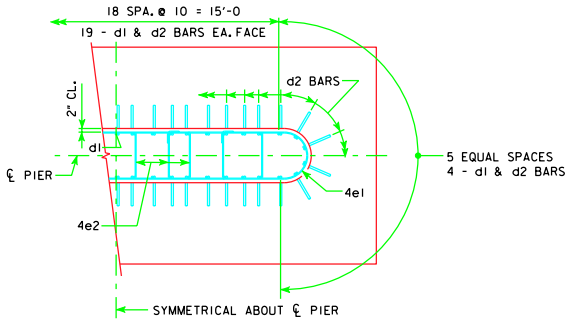
3'-6 x 10'-0 x 25'-0 FOR 19A, 20A & 21A



3'-6 x 10'-0 x 25'-0 FOR 22A & 23A

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	FOOTING SIZE
16 TO 18	201'-4	19A	50	146	3'-6 x 10' x 25'
	213'-10	20A	49	142	
	226'-4	21A	50	144	
	243'-0	22A	50	145	
19 TO 21	201'-4	20A	49	140	3'-6 x 10' x 25'
	213'-10	20A	50	145	
	226'-4	22A	49	142	
	243'-0	23A	50	143	
22 TO 24	201'-4	20A	50	143	3'-6 x 10' x 25'
	213'-10	21A	50	144	
	226'-4	22A	50	144	
	243'-0	23A	50	146	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 10' x 25'	d2	46 - #9 AS SHOWN	8'-7	1342	3661	32.4
	f1	25 - #5 @ 1'-0	9'-8	252		
	f2	10 - #5 @ 1'-0	24'-8	257		
	g1	27 - #9 @ 0'-11	9'-8	887		
	g2	11 - #9 @ 0'-11	24'-8	923		



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H40-65-06.)

① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

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 H40-65-06.

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

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.

10-09
LATEST REVISION DATE

Thomas K. McDonald
APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

AUGUST, 2009

TEE PIER - 50 TON STEEL PILE FOOTINGS

15° SKEW - H=16' TO 24'

H40-67-06

REVISED 10-09 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.