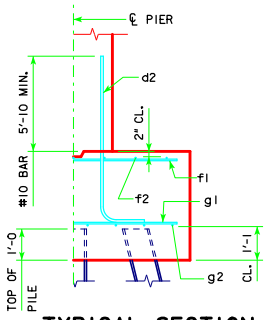
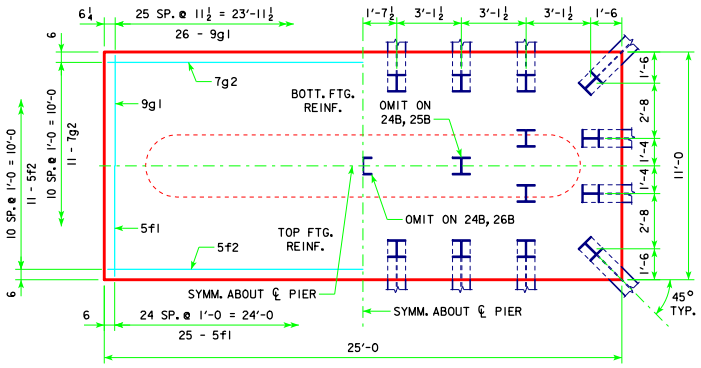
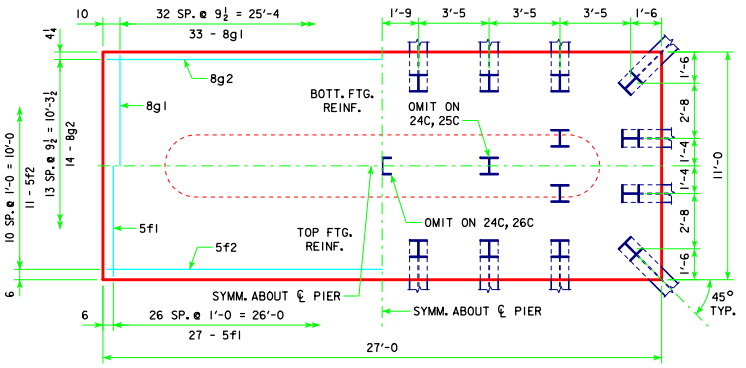


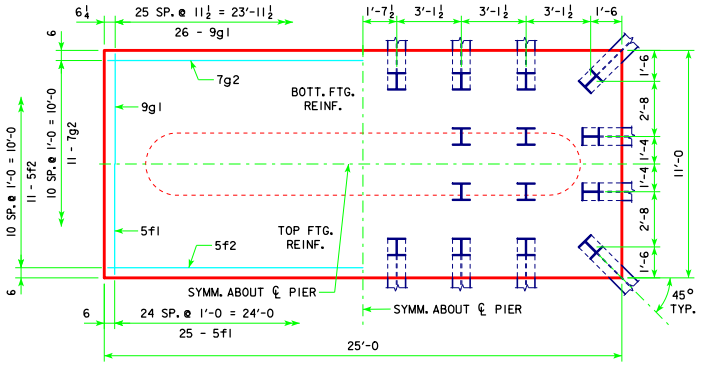
TYPICAL SECTION



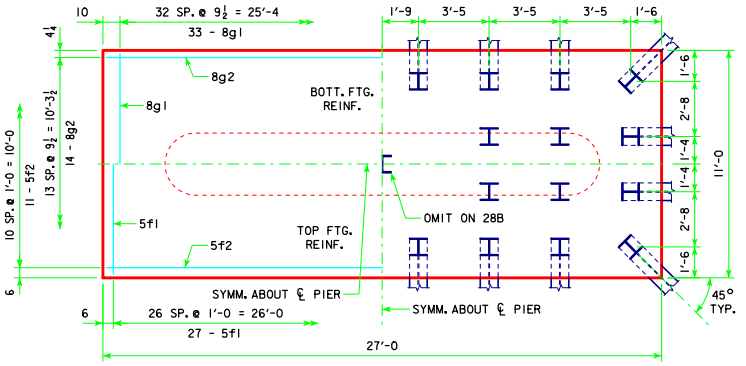
4'-0 x 11'-0 x 25'-0 FOR 24B, 25B, 26B & 27B



4'-0 x 11'-0 x 27'-0 FOR 24C, 25C, 26C & 27C



4'-0 x 11'-0 x 25'-0 FOR 28A



4'-0 x 11'-0 x 27'-0 FOR 28B & 29A

NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

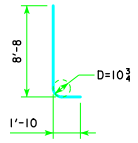
NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

NOTE: THE PILE TYPE IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	PILING (HP10x57) ① LRFD PU, STRENGTH I DES. BRG. (KIPS)	FOOTING SIZE
25 TO 27	201'-4	24B	141	4' x 11' x 25'
	213'-10	24B	146	
	226'-4	26B	144	
	243'-0	27B	146	
28 TO 30	201'-4	24B	143	4' x 11' x 25'
	213'-10	25B	145	
	226'-4	26B	146	
	243'-0	28A	144	
31 TO 33	201'-4	24C	143	4' x 11' x 27'
	213'-10	25C	144	
	226'-4	26C	145	
	243'-0	28B	143	
34 TO 36	201'-4	24C	145	4' x 11' x 27'
	213'-10	25C	146	
	226'-4	27C	144	
	243'-0	28B	145	
37 TO 40	201'-4	25C	145	4' x 11' x 27'
	213'-10	26C	145	
	226'-4	28B	142	
	243'-0	29A	144	

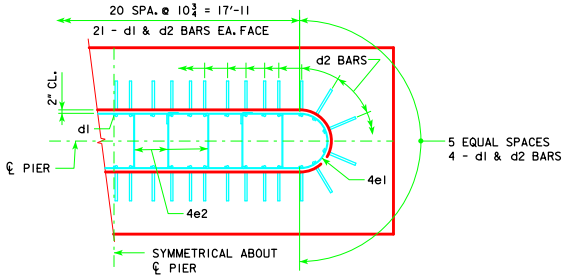
① NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
4' x 11' x 25'	d2	50 - #10 AS SHOWN	10'-6	2259	4318	40.7
	f1	25 - #5 @ 1'-0	10'-8	278		
	f2	11 - #5 @ 1'-0	24'-8	283		
	g1	26 - #9 @ 0'-11½	10'-8	943		
	g2	11 - #7 @ 1'-0	24'-8	555		
4' x 11' x 27'	d2	50 - #10 AS SHOWN	10'-6	2259	4802	44.0
	f1	27 - #5 @ 1'-0	10'-8	300		
	f2	11 - #5 @ 1'-0	26'-8	306		
	g1	33 - #8 @ 0'-9½	10'-8	940		
	g2	14 - #8 @ 0'-9½	26'-8	997		



d2

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



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H44-66-14.)

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 H44-66-14.

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.

PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

IOWADOT Highway Division

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

SEPTEMBER, 2014

TEE PIER-HP10x57 SRL-1 STEEL PILE FOOTINGS

30° SKEW - H=25' TO 40'

H44-69-14