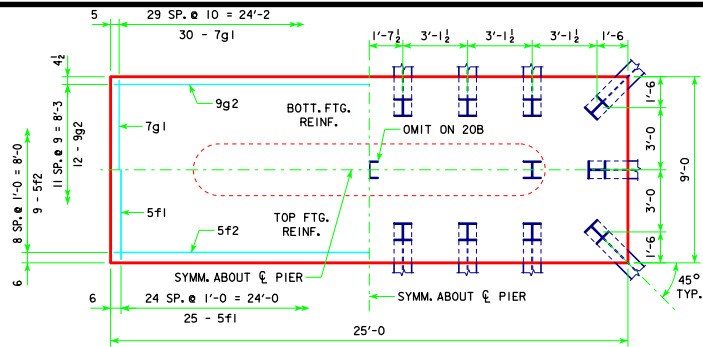
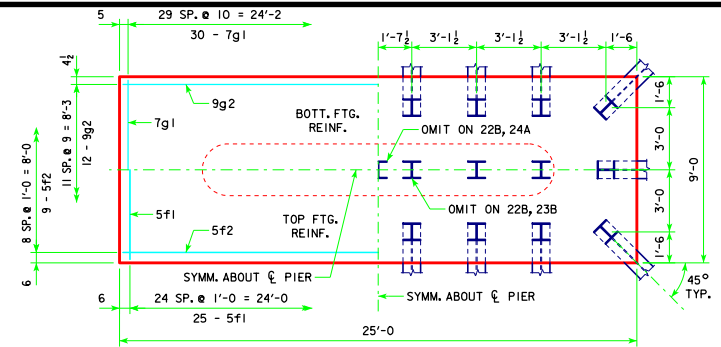


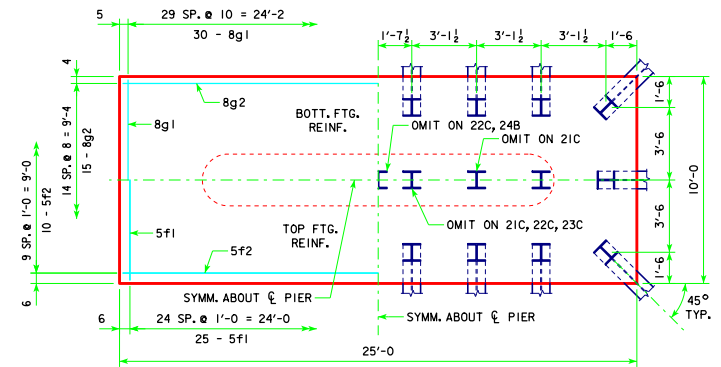
TYPICAL SECTION



4'-0 x 9'-0 x 25'-0 FOR 20B & 21B



4'-0 x 9'-0 x 25'-0 FOR 22B, 23B & 24A

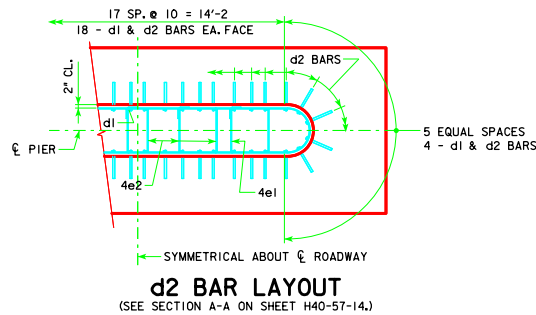


4'-0 x 10'-0 x 25'-0 FOR 21C, 22C, 23C & 24B

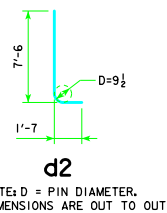
H IN FT.	Ç ABUT. BRG.	Ç LAYOUT	PILING (HP10x57)		FOOTING SIZE
			NO. & LAYOUT	① LRFD PU, STRENGTH I DES. LOAD (KIPS)	
21	201'-4	20B	141		4' x 9' x 25'
21	213'-10	20B	146		
21	226'-4	22B	142		
21	243'-0	23B	144		
22	201'-4	20B	143		4' x 9' x 25'
22	213'-10	21B	144		
22	226'-4	22B	144		
22	243'-0	23B	146		
23	201'-4	20B	145		4' x 9' x 25'
23	213'-10	21B	146		
23	226'-4	22B	146		
23	243'-0	24A	144		
24	201'-4	21B	143		4' x 9' x 25'
24	213'-10	22B	142		
24	226'-4	23B	144		
24	243'-0	24A	146		
25	201'-4	21C	143		4' x 10' x 25'
25	213'-10	22C	143		
25	226'-4	23C	145		
25	243'-0	24B	147		

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.

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	WEIGHT (LB.)		
4' x 9' x 25'	d2 44 - #9 AS SHOWN	9'-1	1359	3354	33.3	
	f1 25 - #5 ø 1'-0	8'-8	226			
	f2 9 - #5 ø 1'-0	24'-8	232			
	g1 30 - #7 ø 0'-10	8'-8	531			
	g2 12 - #9 ø 0'-9	24'-8	1006			
4' x 10' x 25'	d2 44 - #9 AS SHOWN	9'-1	1359	3630	37.0	
	f1 25 - #5 ø 1'-0	9'-8	252			
	f2 10 - #5 ø 1'-0	24'-8	257			
	g1 30 - #8 ø 0'-10	9'-8	774			
	g2 15 - #8 ø 0'-8	24'-8	988			



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



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 H40-57-14.

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	<i>Thomas E. McQuinn</i> APPROVED BY BRIDGE ENGINEER	<b>IOWADOT</b> Highway Division
	STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE <b>PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES</b> SEPTEMBER, 2014	
	<b>TEE PIER-HP10x57 SRL-1 STEEL PILE FOOTINGS</b>	<b>H40-60-14</b>

0° SKEW - H=25' TO 40'