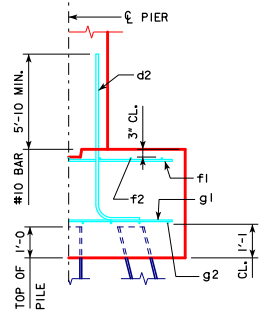
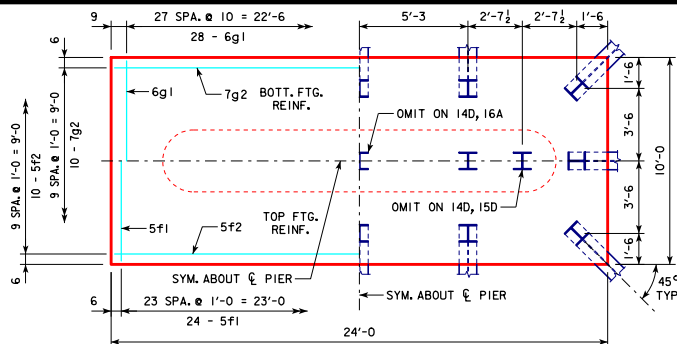


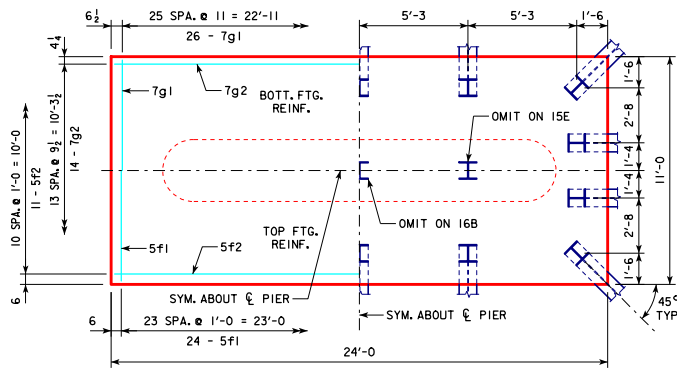
REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.
REVISED 09-2016 - CHANGED VERTICAL CLEARANCE OF REBAR "f2" TO TOP OF PIER FOOTING TO 3" WAS 2".



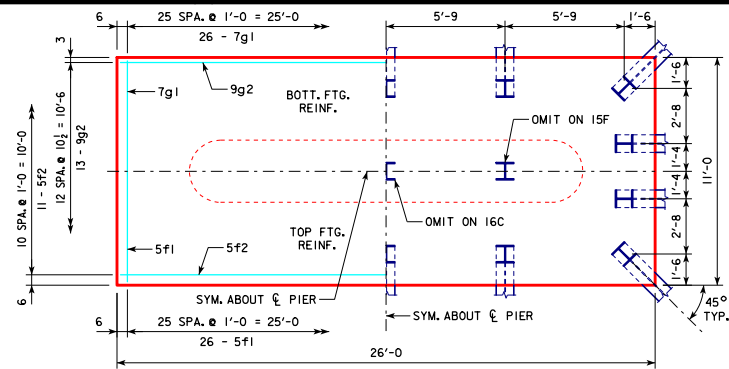
TYPICAL SECTION



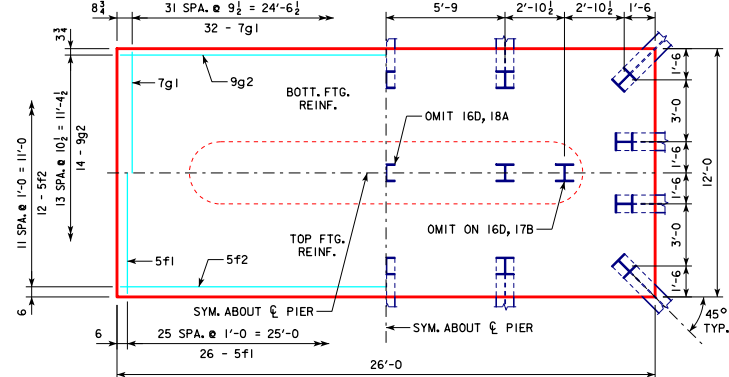
4'-0 x 10'-0 x 24'-0 FOR 14D, 15D & 16A



4'-0 x 11'-0 x 24'-0 FOR 15E & 16B



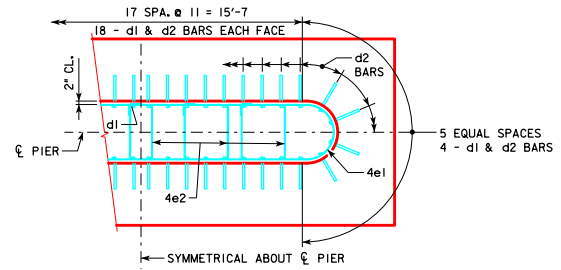
4'-0 x 11'-0 x 26'-0 FOR 15F, 16C & 17A



4'-0 x 12'-0 x 26'-0 FOR 16D, 17B & 18A

H IN. FT.	C - C ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	① LRFD P _u STRENGTH I, DES. LOAD (KIPS)	
201'-4	14D	142		4' x 10' x 24'
213'-10	15D	141		
226'-4	15D	145		
243'-0	16A	138		
201'-4	15E	134		4' x 11' x 24'
213'-10	15E	138		
226'-4	15E	142		
243'-0	16B	139		
201'-4	15E	141		4' x 11' x 24'
213'-10	15E	145		
226'-4	16B	141		
243'-0	16B	144		
201'-4	15F	145		4' x 11' x 26'
213'-10	16C	141		
226'-4	16C	145		
243'-0	17A	142		
201'-4	16D	144		4' x 12' x 26'
213'-10	17B	143		
226'-4	17B	147		
243'-0	18A	140		

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				STRUCTURAL CONCRETE (CY)	
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 10' x 24'	d2	44 - #10 AS SHOWN	10'-6	1988	3368	35.6
	f1	24 - #5 @ 1'-0	9'-8	242		
	f2	10 - #5 @ 1'-0	23'-8	247		
	g1	28 - #6 @ 0'-10	9'-8	407		
	g2	10 - #7 @ 1'-0	23'-8	484		
4' x 11' x 24'	d2	44 - #10 AS SHOWN	10'-6	1988	3771	39.1
	f1	24 - #5 @ 1'-0	10'-8	267		
	f2	11 - #5 @ 1'-0	23'-8	272		
	g1	26 - #7 @ 0'-11	10'-8	567		
	g2	14 - #7 @ 0'-9 1/2	23'-8	677		
4' x 11' x 26'	d2	44 - #10 AS SHOWN	10'-6	1988	4272	42.4
	f1	26 - #5 @ 1'-0	10'-8	289		
	f2	11 - #5 @ 1'-0	25'-8	294		
	g1	26 - #7 @ 1'-0	10'-8	567		
	g2	13 - #9 @ 0'-10 1/2	25'-8	1134		
4' x 12' x 26'	d2	44 - #10 AS SHOWN	10'-6	1988	4610	46.2
	f1	26 - #5 @ 1'-0	11'-8	316		
	f2	12 - #5 @ 1'-0	25'-8	321		
	g1	32 - #7 @ 0'-9 1/2	11'-8	763		
	g2	14 - #9 @ 0'-10 1/2	25'-8	1222		



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H24-64-06.)

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

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

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 H24-64-06.

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.

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

09-2016
LATEST REVISION DATE
Thomas E. McQuill
APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

TEE PIER-HP10x57 SRL-1 STEEL PILE FOOTINGS

30° SKEW - H=25' TO 40'

H24-66-06