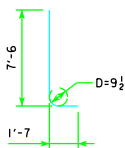


REVISED 07-10 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.

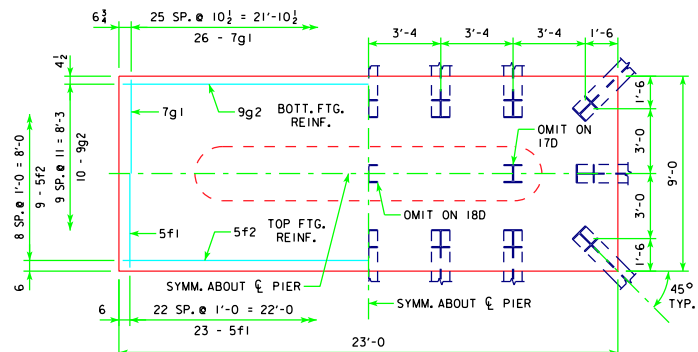


d2

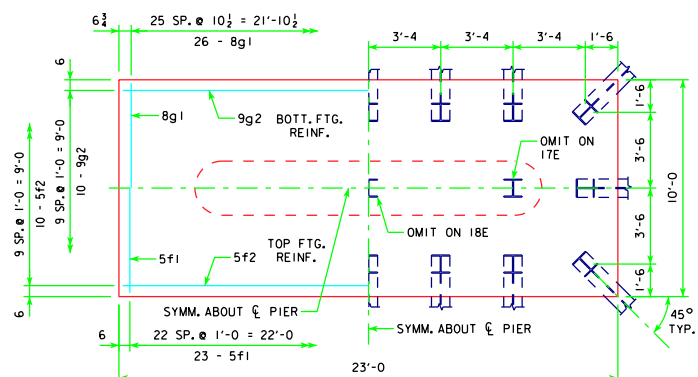
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	PILING (HP10x57) NO. & LAYOUT	DES. BRG. (TONS)	LRFD DES. BRG. (KIPS)	FOOTING SIZE
20'1'-4"	17D	47	135	4' x 9' x 23'
213'-10"	17D	49	140	
226'-4"	17D	50	146	
243'-0"	18D	49	142	
20'1'-4"	17D	48	138	4' x 9' x 23'
213'-10"	17D	49	143	
226'-4"	18D	49	140	
243'-0"	18D	50	145	
20'1'-4"	17E	48	139	4' x 10' x 23'
213'-10"	17E	50	143	
226'-4"	18E	49	141	
243'-0"	18E	50	145	
20'1'-4"	17F	49	141	4' x 10' x 25'
213'-10"	17F	50	144	
226'-4"	18F	49	141	
243'-0"	18F	50	146	
20'1'-4"	18G	48	138	4' x 11' x 25'
213'-10"	18G	49	141	
226'-4"	18G	50	144	
243'-0"	19A	49	143	

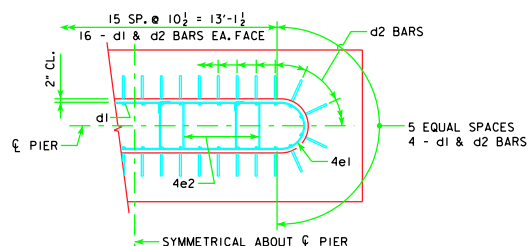
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 9' x 23'	d2	40 - #9 AS SHOWN	9'-1"	1235	2888	30.7
	f1	23 - #5 @ 1'-0"	8'-8"	208		
	f2	9 - #5 @ 1'-0"	22'-8"	213		
	g1	26 - #7 @ 0'-10 1/2"	8'-8"	461		
	g2	10 - #9 @ 0'-11"	22'-8"	771		
	d2	40 - #9 AS SHOWN	9'-1"	1235		
4' x 10' x 23'	f1	23 - #5 @ 1'-0"	9'-8"	232	3145	34.1
	f2	10 - #5 @ 1'-0"	22'-8"	236		
	g1	26 - #8 @ 0'-10 1/2"	9'-8"	671		
	g2	10 - #9 @ 1'-0"	22'-8"	771		
	d2	40 - #9 AS SHOWN	9'-1"	1235		
	f1	25 - #5 @ 1'-0"	9'-8"	252		
4' x 10' x 25'	f2	10 - #5 @ 1'-0"	24'-8"	257	3469	37.0
	g1	26 - #8 @ 0'-11 1/2"	9'-8"	671		
	g2	16 - #8 @ 0'-7 1/2"	24'-8"	1054		
	d2	40 - #9 AS SHOWN	9'-1"	1235		
	f1	25 - #5 @ 1'-0"	10'-8"	278		
	f2	11 - #5 @ 1'-0"	24'-8"	283		
4' x 11' x 25'	g1	25 - #9 @ 1'-0"	10'-8"	907	3793	40.7
	g2	13 - #9 @ 0'-10 1/2"	24'-8"	1090		



4'-0 x 9'-0 x 23'-0 FOR 17D & 18D



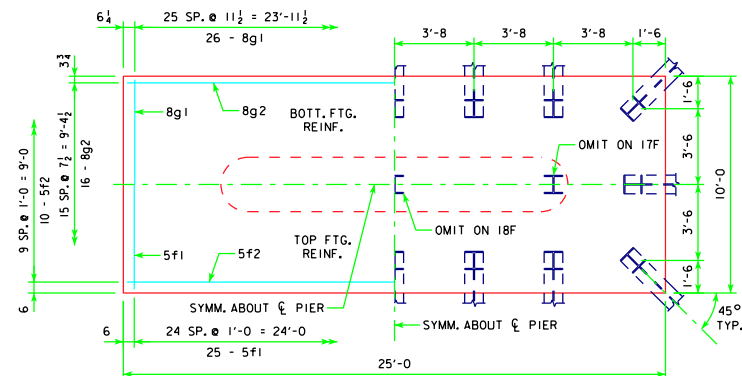
4'-0 x 10'-0 x 23'-0 FOR 17E & 18E



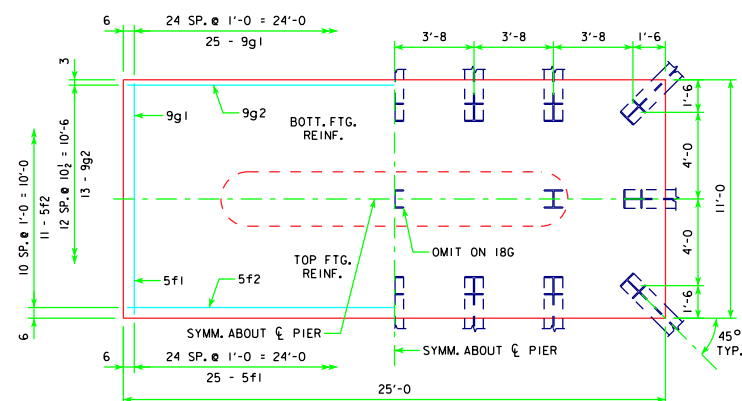
d2 BAR LAYOUT

(SEE SECTION A-A ON SHEET H30-64-06.)

- FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.



4'-0 x 10'-0 x 25'-0 FOR 17F & 18F



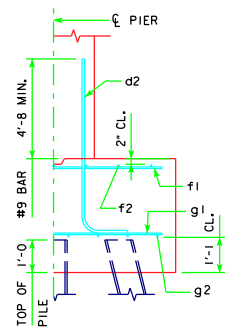
4'-0 x 11'-0 x 25'-0 FOR 18G & 19A

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 H30-64-06.

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".



TYPICAL SECTION

LATEST REVISION DATE	07-10	<i>Thomas E. McQuinn</i> APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
			STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES DECEMBER, 2006	
			TEE PIER - 50 TON STEEL PILE FOOTINGS 15° SKEW - H=25' TO 40'	H30-66-06