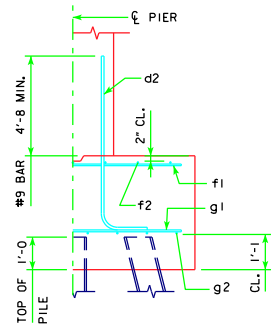
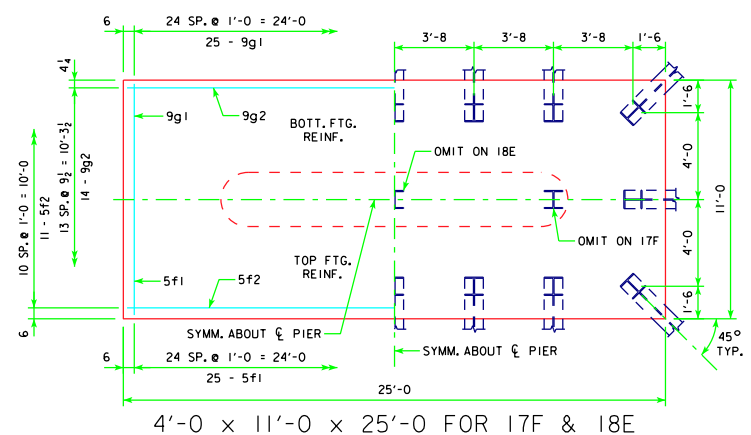
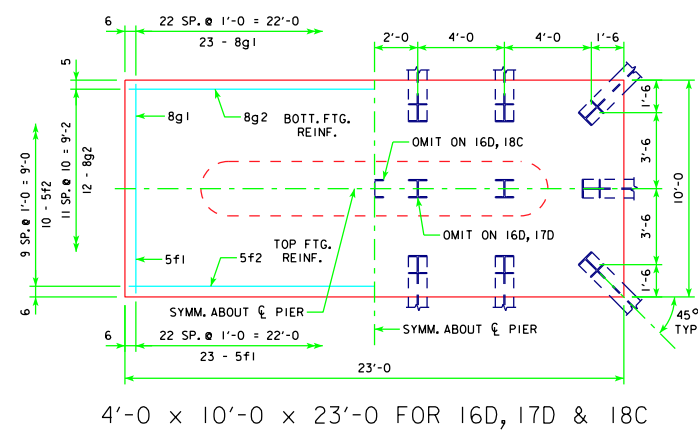
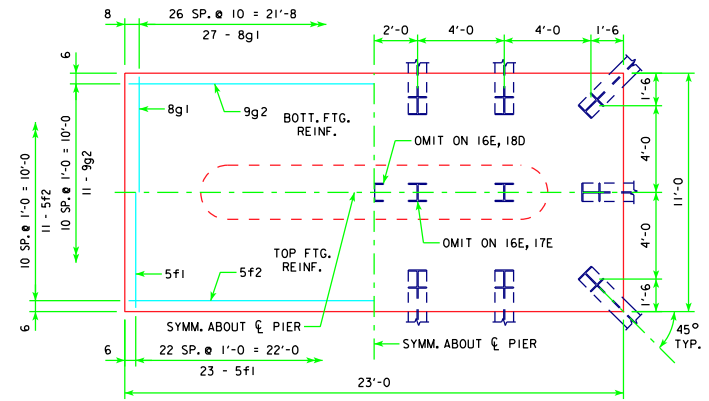
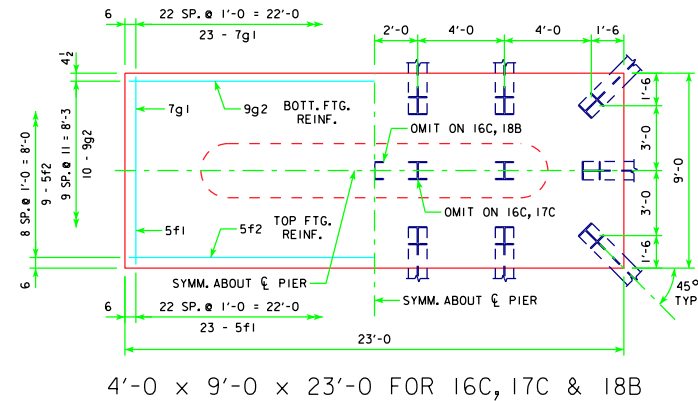


REVISED 07-10 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.

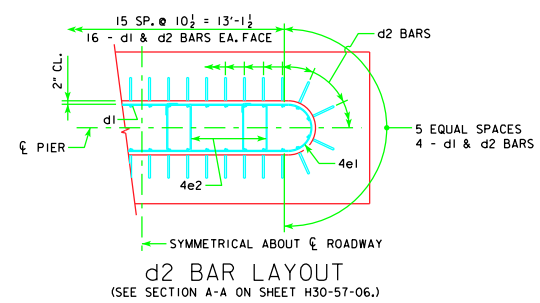


TYPICAL SECTION

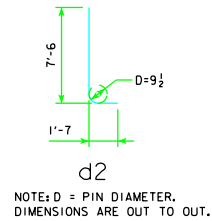


H IN. FT.	PILING (HP10x57)	NO. & LAYOUT	DES. BRG. (TONS)	DES. BRG. (KIPS)	FOOTING SIZE
201'-4	16C	48	138		4' x 9' x 23'
213'-10	16C	50	143		
226'-4	17C	50	143		
243'-0	18B	50	143		
201'-4	16D	48	139		4' x 10' x 23'
213'-10	16D	50	144		
226'-4	17D	50	144		
243'-0	18C	50	144		
201'-4	16E	49	142		4' x 11' x 23'
213'-10	16E	50	146		
226'-4	17E	50	146		
243'-0	18D	50	145		
201'-4	17F	48	138		4' x 11' x 25'
213'-10	17F	49	141		
226'-4	17F	50	144		
243'-0	18E	49	141		
201'-4	18E	47	135		4' x 11' x 25'
213'-10	18E	48	138		
226'-4	18E	49	141		
243'-0	18E	50	146		

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	2834	30.7
	f1	23 - #5 @ 1'-0	8'-8	208		
	f2	9 - #5 @ 1'-0	22'-8	213		
	g1	23 - #7 @ 1'-0	8'-8	407		
4' x 10' x 23'	g2	10 - #9 @ 0'-11	22'-8	771	3023	34.1
	d2	40 - #9 AS SHOWN	9'-1	1235		
	f1	23 - #5 @ 1'-0	9'-8	232		
	f2	10 - #5 @ 1'-0	22'-8	236		
4' x 11' x 23'	g1	23 - #8 @ 1'-0	9'-8	594	3368	37.5
	g2	12 - #8 @ 0'-10	22'-8	726		
	d2	40 - #9 AS SHOWN	9'-1	1235		
	f1	23 - #5 @ 1'-0	10'-8	256		
4' x 11' x 25'	f2	11 - #5 @ 1'-0	22'-8	260	3877	40.7
	g1	27 - #8 @ 0'-10	10'-8	769		
	g2	11 - #9 @ 1'-0	22'-8	848		
	d2	40 - #9 AS SHOWN	9'-1	1235		
	f1	25 - #5 @ 1'-0	10'-8	278		
	f2	11 - #5 @ 1'-0	24'-8	283		
	g1	25 - #9 @ 1'-0	10'-8	907		
	g2	14 - #9 @ 0'-9 1/2	24'-8	1174		



- ① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- ② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.



THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H30-57-06.

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.

7'-6

1'-7

D=9 1/2

d2

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

07-10

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

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

0° SKEW - H=25' TO 40'

H30-59-06