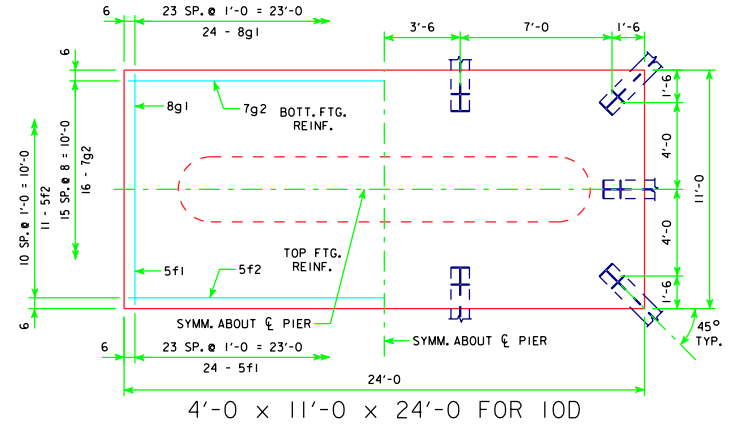
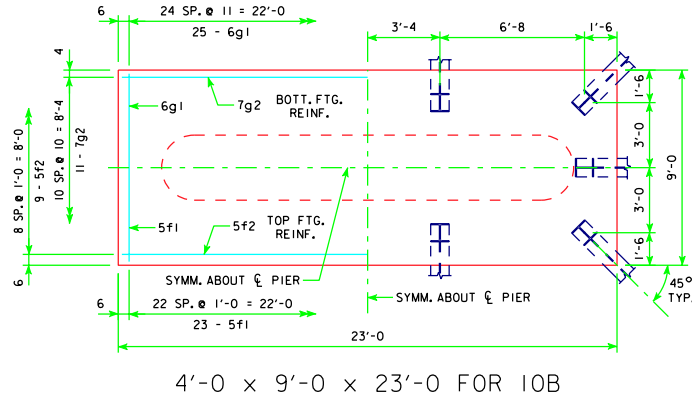
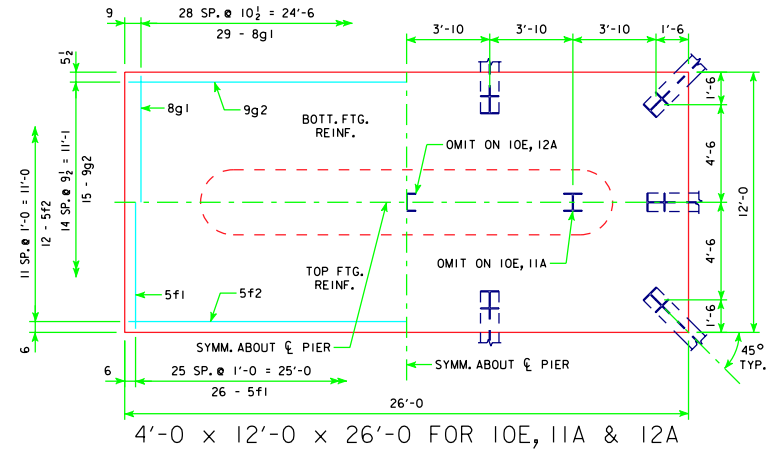
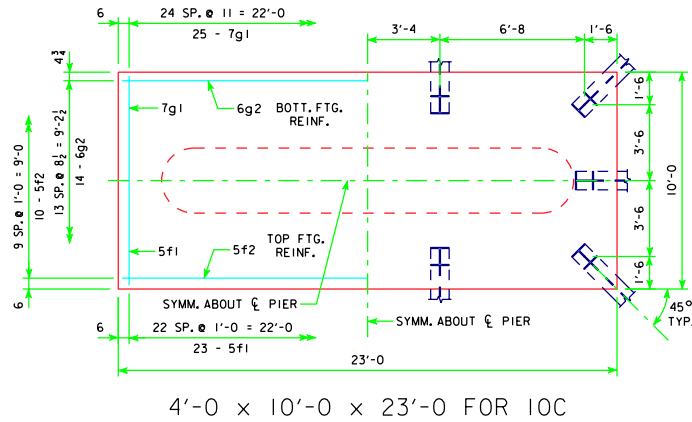


TYPICAL SECTION



H IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	(1) DES. BRG. (TONS) (2) LRFD DES. BRG. (KIPS)	
20'1'-4	10B	67	193	4' x 9' x 23'
213'-10	10B	69	199	
226'-4	10B	71	206	
243'-0	10B	74	212	4' x 10' x 23'
201'-4	10C	68	197	
213'-10	10C	70	203	
226'-4	10C	73	210	4' x 11' x 24'
243'-0	10C	75	216	
201'-4	10D	70	203	
213'-10	10D	72	209	4' x 12' x 26'
226'-4	10D	74	215	
243'-0	10D	75	220	
201'-4	10E	72	208	4' x 12' x 26'
213'-10	10E	74	213	
226'-4	10E	75	219	
243'-0	11A	73	211	4' x 12' x 26'
201'-4	10E	75	219	
213'-10	11A	74	213	
226'-4	11A	75	218	4' x 12' x 26'
243'-0	12A	70	203	



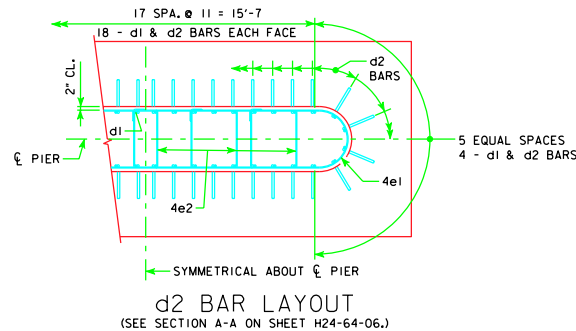
FOOTING NOTES:

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.

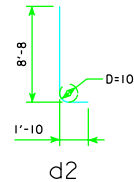
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)			TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 9' x 23'	d2 44 - #10 AS SHOWN	10'-6	1988	3244	30.7
	f1 23 - #5 @ 1'-0	8'-8	208		
	f2 9 - #5 @ 1'-0	22'-8	213		
	g1 25 - #6 @ 0'-11	8'-8	325		
	g2 11 - #7 @ 0'-10	22'-8	510		
	d2 44 - #10 AS SHOWN	10'-6	1988		
4' x 10' x 23'	f1 23 - #5 @ 1'-0	9'-8	232	3427	34.1
	f2 10 - #5 @ 1'-0	22'-8	236		
	g1 25 - #7 @ 0'-11	9'-8	494		
	g2 14 - #6 @ 0'-8 1/2	22'-8	477		
	d2 44 - #10 AS SHOWN	10'-6	1988		
	f1 24 - #5 @ 1'-0	10'-8	267		
4' x 11' x 24'	f2 11 - #5 @ 1'-0	23'-8	272	3985	39.1
	g1 24 - #8 @ 1'-0	10'-8	684		
	g2 16 - #7 @ 0'-8	23'-8	774		
	d2 44 - #10 AS SHOWN	10'-6	1988		
	f1 26 - #5 @ 1'-0	11'-8	316		
	f2 12 - #5 @ 1'-0	25'-8	321		
4' x 12' x 26'	g1 29 - #8 @ 0'-10 1/2	11'-8	903	4837	46.2
	g2 15 - #9 @ 0'-9 1/2	25'-8	1309		



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

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

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



01-10 LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER <i>Norman E. McQuinn</i>	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES DECEMBER, 2006	
		TEE PIER - 75 TON STEEL PILE FOOTINGS 30° SKEW - H=25' TO 40'	H24-68-06