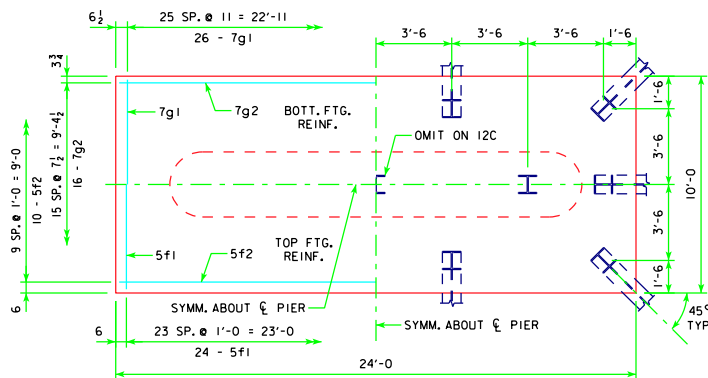
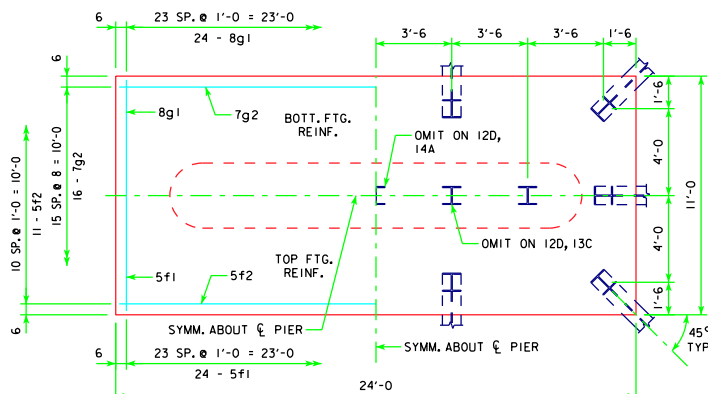


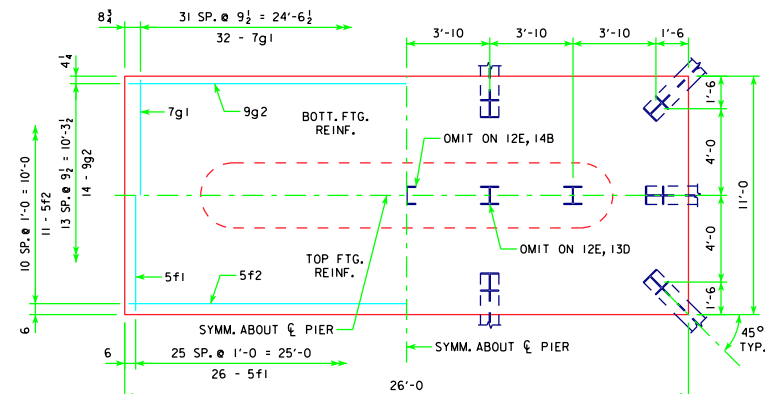
TYPICAL SECTION



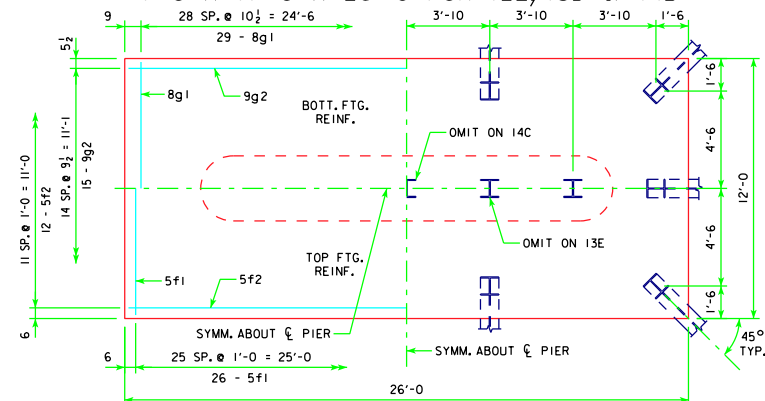
4'-0 x 10'-0 x 24'-0 FOR 12C & 13B



4'-0 x 11'-0 x 24'-0 FOR 12D, 13C & 14A



4'-0 x 11'-0 x 26'-0 FOR 12E, 13D & 14B



4'-0 x 12'-0 x 26'-0 FOR 13E & 14C

FOOTING NOTES:

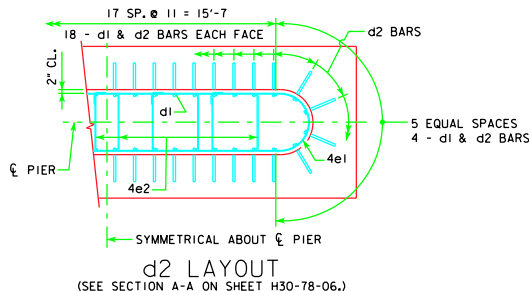
THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H30-78-06.

BATTER PILES IN EXTERIOR ROWS 1/4 IN THE DIRECTION SHOWN.

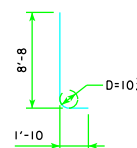
STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① DES. BRG. (TONGS)	② LRFD DES. BRG. (KIPS)	
27	201'-4	12C	71	205	4' x 10' x 24'
28	213'-10	12C	73	211	
29	226'-4	12C	75	220	
30	243'-0	13B	74	215	
31	201'-4	12D	72	208	4' x 11' x 24'
32	213'-10	12D	75	215	
33	226'-4	13C	73	211	
34	243'-0	13C	75	219	
35	201'-4	12D	74	213	4' x 11' x 24'
36	213'-10	13C	72	208	
37	226'-4	13C	75	216	
38	243'-0	14A	73	211	
39	201'-4	12E	75	217	4' x 11' x 26'
40	213'-10	13D	74	212	
41	226'-4	14B	72	209	
42	243'-0	14B	75	215	
43	201'-4	13E	73	210	4' x 12' x 26'
44	213'-10	13E	75	217	
45	226'-4	14C	74	213	
46	243'-0	14C	75	219	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH (LB.)	TOTAL WEIGHT (LB.)	
4' x 10' x 24'	d2	44 - #10 AS SHOWN	10'-6	1988	3765
	f1	24 - #5 @ 1'-0"	9'-8	242	
	f2	10 - #5 @ 1'-0"	23'-8	247	
	g1	26 - #7 @ 0'-11"	9'-8	514	
	g2	16 - #7 @ 0'-7 1/2"	23'-8	774	
	d2	44 - #10 AS SHOWN	10'-6	1988	
4' x 11' x 24'	f1	24 - #5 @ 1'-0"	10'-8	267	3985
	f2	11 - #5 @ 1'-0"	23'-8	272	
	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"	10'-8	289	
4' x 11' x 26'	f2	11 - #5 @ 1'-0"	25'-8	294	4491
	g1	32 - #7 @ 0'-9 1/2"	10'-8	698	
	g2	14 - #9 @ 0'-9 1/2"	25'-8	1222	
	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
	g2	15 - #9 @ 0'-9 1/2"	25'-8	1309	



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



d2
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

LATEST REVISION DATE		Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES DECEMBER, 2006	
TEE PIER - 75 TON STEEL PILE FOOTINGS 45° SKEW - H=25' to 40'	H30-82-06		