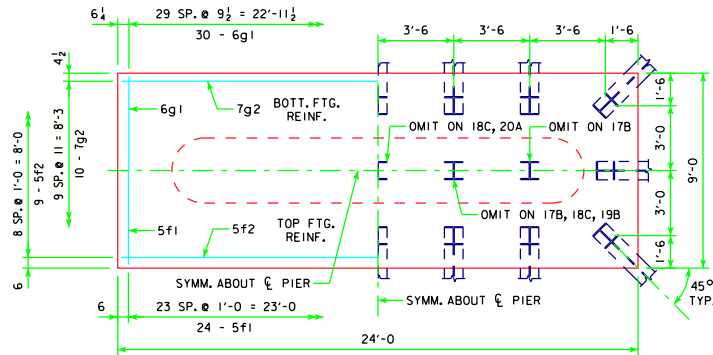
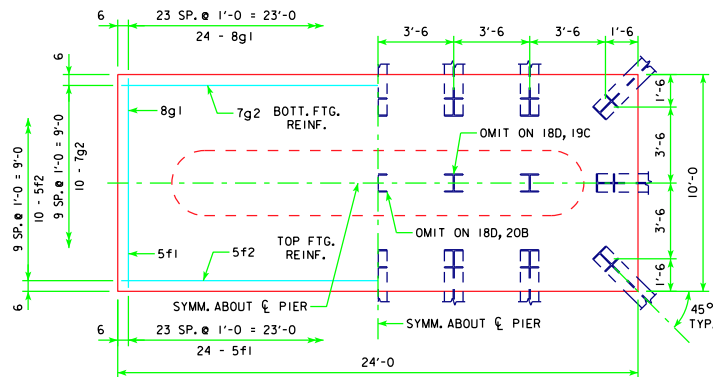


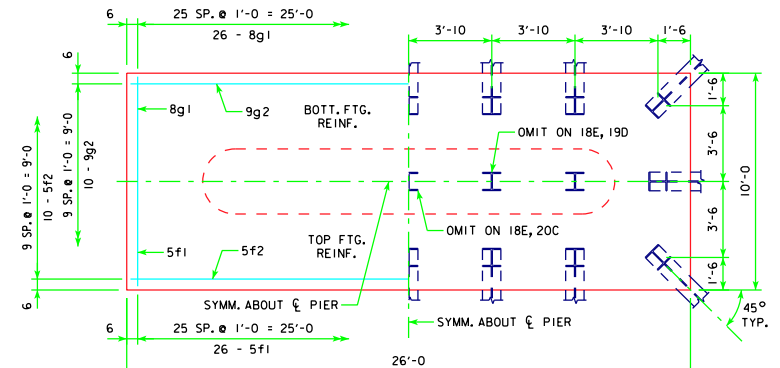
TYPICAL SECTION



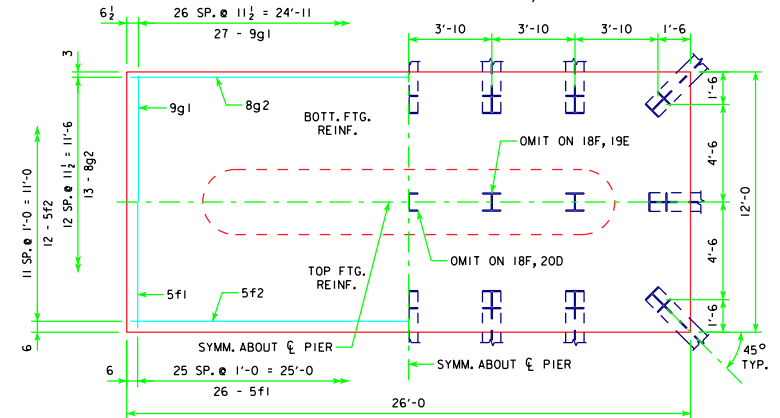
4'-0 x 9'-0 x 24'-0 FOR 17B, 18C, 19B & 20A



4'-0 x 10'-0 x 24'-0 FOR 18D, 19C & 20B



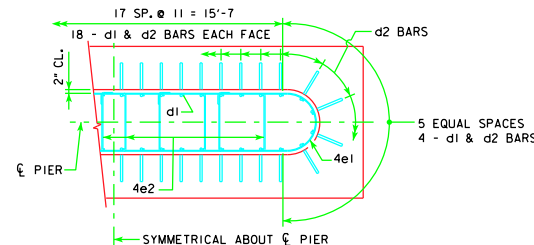
4'-0 x 10'-0 x 26'-0 FOR 18E, 19D & 20C



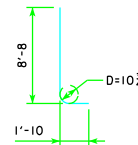
4'-0 x 12'-0 x 26'-0 FOR 18F, 19E & 20D

H IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	DES. BRG. (TONS)	
201'-4	17B	50	144	4' x 9' x 24'
213'-10	18C	49	140	
226'-4	18C	50	145	
243'-0	19B	50	145	4' x 9' x 24'
201'-4	18C	48	139	
213'-10	18C	50	143	
226'-4	19B	50	144	4' x 10' x 24'
243'-0	20A	50	143	
201'-4	18D	49	141	4' x 10' x 24'
213'-10	18D	50	145	
226'-4	19C	50	145	
243'-0	20B	50	144	4' x 10' x 26'
201'-4	18E	49	142	
213'-10	18E	50	146	
226'-4	19D	50	146	4' x 12' x 26'
243'-0	20C	50	145	
201'-4	18F	50	145	
213'-10	19E	50	145	
226'-4	20D	50	143	
243'-0	20D	50	147	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 9' x 24'	d2	44 - #10 AS SHOWN	10'-6	1988	3302	32.0
	f1	24 - #5 @ 1'-0	8'-8	217		
	f2	9 - #5 @ 1'-0	23'-8	222		
	g1	30 - #6 @ 0'-9 1/2	8'-8	391		
	g2	10 - #7 @ 0'-11	23'-8	484		
	d2	44 - #10 AS SHOWN	10'-6	1988		
4' x 10' x 24'	f1	24 - #5 @ 1'-0	9'-8	242	3580	35.6
	f2	10 - #5 @ 1'-0	23'-8	247		
	g1	24 - #8 @ 1'-0	9'-8	619		
	g2	10 - #7 @ 1'-0	23'-8	484		
	d2	44 - #10 AS SHOWN	10'-6	1988		
	f1	26 - #5 @ 1'-0	9'-8	262	4062	38.5
4' x 10' x 26'	f2	10 - #5 @ 1'-0	25'-8	268		
	g1	26 - #8 @ 1'-0	9'-8	671		
	g2	10 - #9 @ 1'-0	25'-8	873		
	d2	44 - #10 AS SHOWN	10'-6	1988		
	f1	26 - #5 @ 1'-0	11'-8	316	4587	46.2
4' x 12' x 26'	f2	12 - #5 @ 1'-0	25'-8	321		
	g1	27 - #9 @ 0'-11 1/2	11'-8	1071		
	g2	13 - #8 @ 0'-11 1/2	25'-8	891		



- d2 LAYOUT
(SEE SECTION A-A ON SHEET H30-71-06.)
- FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
 - FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.



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

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 H30-71-06.

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.

LATEST REVISION DATE	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 30° SKEW - H=25' to 40'	H30-73-06