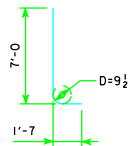


TYPICAL SECTION

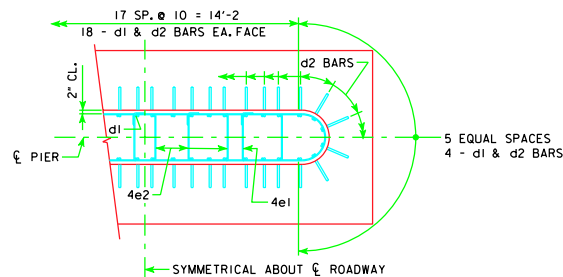


d2

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

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	DES. BRG. (TONS)	
201'-4	12A	48	138	3'-6 x 8' x 21'
213'-10	12A	50	143	
226'-4	13A	49	142	
243'-0	14A	48	139	
201'-4	12A	50	143	3'-6 x 8' x 21'
213'-10	13A	49	141	
226'-4	14A	48	138	
243'-0	14A	50	144	
201'-4	13B	48	138	3'-6 x 9' x 22'
213'-10	13B	49	142	
226'-4	14B	48	139	
243'-0	14B	50	144	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH (LB.)	TOTAL WEIGHT (LB.)	
3'-6 x 8' x 21'	d2	44 - #9 AS SHOWN	8'-7	1284	2218
	f1	21 - #5 @ 1'-0	7'-8	168	
	f2	8 - #5 @ 1'-0	20'-8	172	
	g1	22 - #6 @ 0'-11 1/2	7'-8	253	
	g2	11 - #6 @ 0'-9	20'-8	341	
3'-6 x 9' x 22'	d2	44 - #9 AS SHOWN	8'-7	1284	2607
	f1	22 - #5 @ 1'-0	8'-8	199	
	f2	9 - #5 @ 1'-0	21'-8	203	
	g1	22 - #7 @ 1'-0	8'-8	390	
	g2	12 - #7 @ 0'-9	21'-8	531	

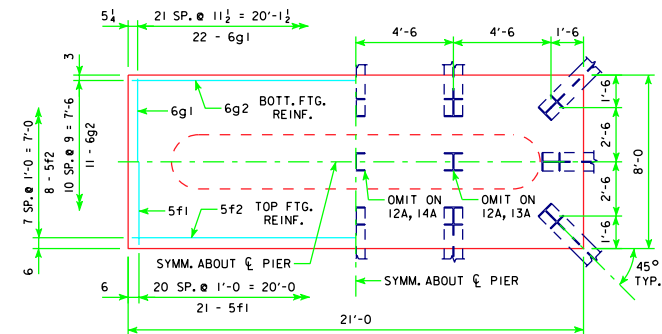


d2 BAR LAYOUT

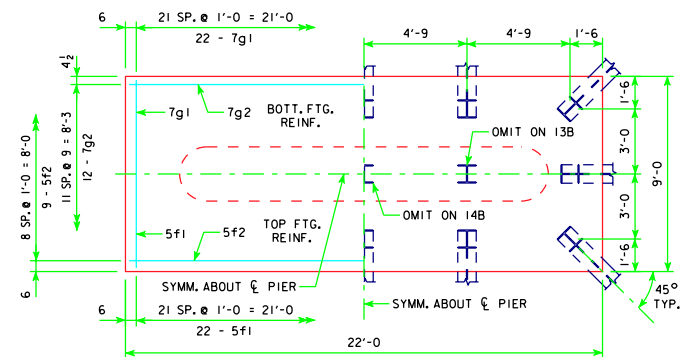
(SEE SECTION A-A ON SHEET H24-50-06.)

① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.



3'-6 x 8'-0 x 21'-0 FOR 12A, 13A & 14A



3'-6 x 9'-0 x 22'-0 FOR 13B & 14B

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 H24-50-06.

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.

01-10 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER		Iowa Department of Transportation Highway Division	
			STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE	
			PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES DECEMBER, 2006	
			TEE PIER - 50 TON STEEL PILE FOOTINGS	H24-51-06
			0° SKEW - H:16' TO 24'	