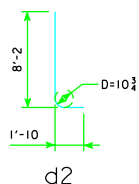


TYPICAL SECTION



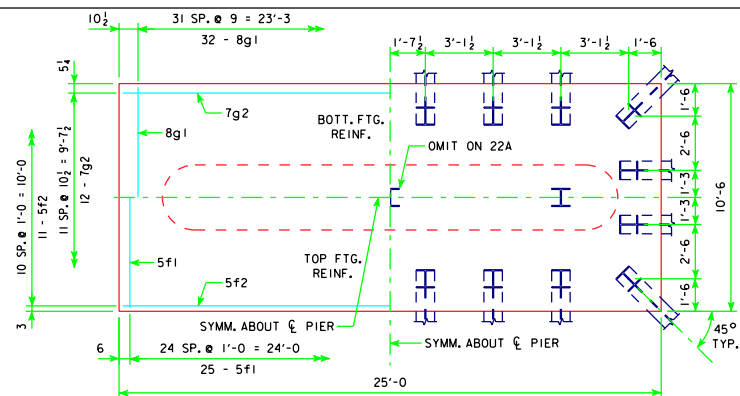
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

FOOTING NOTES:

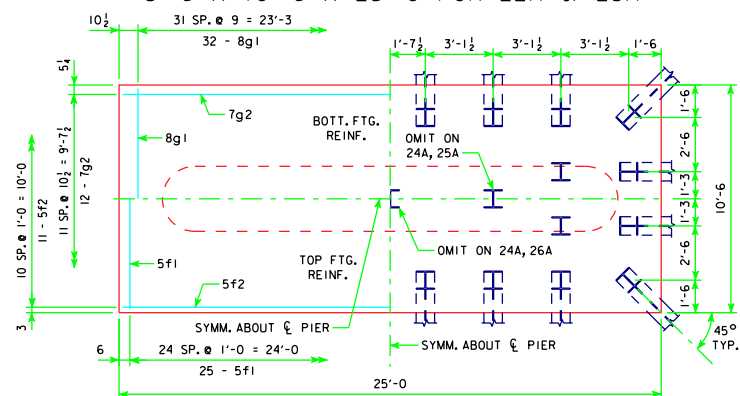
THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H44-66-07.

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".



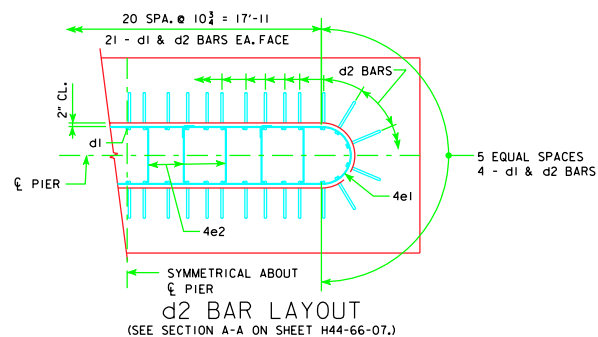
3'-6 x 10'-6 x 25'-0 FOR 22A & 23A



3'-6 x 10'-6 x 25'-0 FOR 24A, 25A, 26A & 27A

H F IN.	C - C ABUT. BRG.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① DRG. BRG. (TONS)	② LRD DRG. (KIPS)	
16 to 21	201'-4	22A	50	143	3'-6 x 10'-6 x 25'
	213'-10	23A	50	145	
	226'-4	24A	50	143	
	243'-0	25A	50	146	
19 to 24	201'-4	22A	50	147	3'-6 x 10'-6 x 25'
	213'-10	24A	49	140	
	226'-4	24A	50	146	
	243'-0	26A	50	144	
22 to 24	201'-4	23A	50	146	3'-6 x 10'-6 x 25'
	213'-10	24A	50	143	
	226'-4	25A	50	146	
	243'-0	27A	50	144	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
3'-6" x 10'-6" x 25'	d2	50 - #10 AS SHOWN	10'-0"	2152	4174	34.0
	f2	25 - #5 @ 1'-0"	10'-2"	265		
	f2	11 - #5 @ 1'-0"	24'-6"	283		
	g1	32 - #8 @ 0'-9"	10'-2"	869		
	g2	12 - #7 @ 0'-10"	24'-8"	605		



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

11-09 LATEST REVISION DATE <i>James E. McQuinn</i> APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
	STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES MARCH, 2007	
	TEE PIER - 50 TON STEEL PILE FOOTINGS 30° SKEW - H=16' TO 24'	H44-68-07