

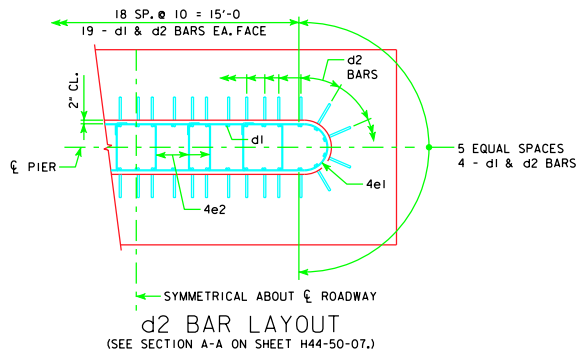
Diagram illustrating a 90-degree corner with dimensions and a fillet radius. The corner is defined by a vertical line and a horizontal line. The vertical dimension is labeled $7'-0$ and the horizontal dimension is labeled $1'-7$. A fillet with a radius $D=9\frac{1}{2}$ is shown at the corner, with a dimension line indicating the radius.

d2

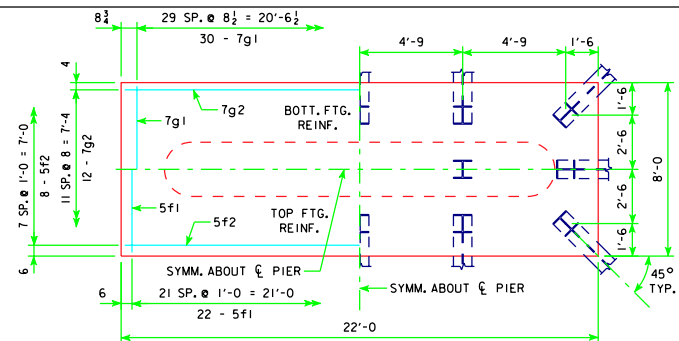
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	
201'-4 213'-10 226'-4 243'-0	16 to 18	14A	75	220	3'-6 x 8' x 22'
		15A	74	210	
		16A	73	210	
		16A	75	219	
201'-4 213'-10 226'-4 243'-0	16 to 21	15A	73	210	3'-6 x 8' x 22'
		15A	75	218	
		16A	74	214	
		17A	75	215	
201'-4 213'-10 226'-4 243'-0	22 to 24	15A	74	213	3'-6 x 8' x 22'
		16A	72	208	
		16A	75	217	
		17A	75	218	

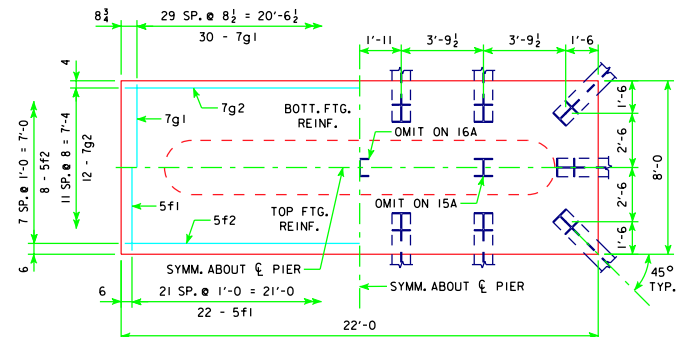
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
3'-6" x 8' x 22'	d2	46 - #9 AS SHOWN	8'-7"	1342	2700	22.8
	f1	22 - #5 @ 0'-10"	7'-8"	176		
	f2	8 - #5 @ 0'-10"	21'-1"	181		
	g1	30 - #7 @ 0'-8 1/2"	7'-8"	470		
	g2	12 - #7 @ 0'-8"	21'-1"	531		



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



3'-6 x 8'-0 x 22'-0 FOR 14A



3'-6 x 8'-0 x 22'-0 FOR 15A, 16A & 17A

THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H44-50-07.

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".

11-09 LATEST REVISION DATE <i>Norman 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 - 75 TON STEEL PILE FOOTINGS 0° SKEW - H=16' TO 24'	H44-54-07