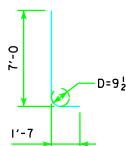


TYPICAL SECTION

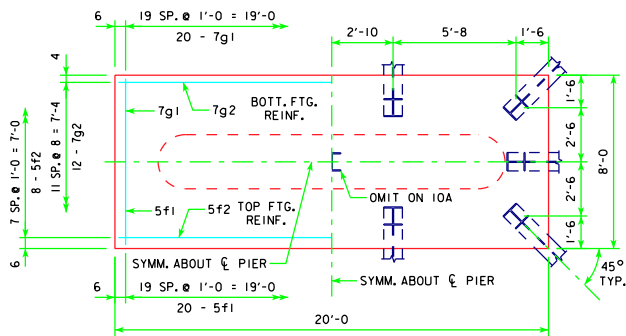


d2

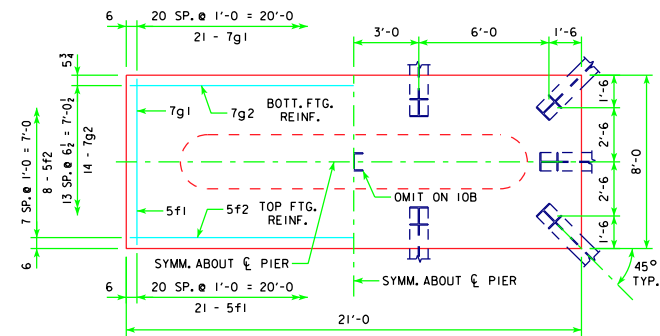
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	
18 TO 21	201'-4	10A	70	203	3'-6 x 8' x 20'
	213'-10	10A	73	211	
	226'-4	11A	71	206	
	243'-0	11A	74	214	
21 TO 24	201'-4	10B	72	208	3'-6 x 8' x 21'
	213'-10	10B	75	215	
	226'-4	11B	73	210	
	243'-0	11B	75	218	
24 TO 27	201'-4	10C	72	209	3'-6 x 9' x 21'
	213'-10	10C	75	216	
	226'-4	11C	73	211	
	243'-0	11C	75	219	

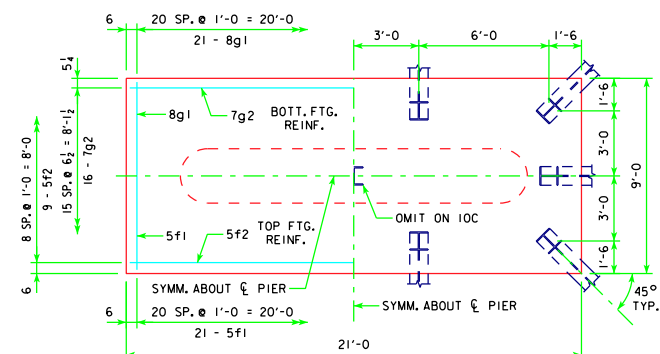
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
3'-6 x 8' x 20'	d2	40 - #9 AS SHOWN	8'-7	1167	2286	20.7
	f1	20 - #5 @ 1'-0	7'-8	160		
	f2	8 - #5 @ 1'-0	19'-8	164		
	g1	20 - #7 @ 1'-0	7'-8	313		
3'-6 x 8' x 21'	g2	12 - #7 @ 0'-8	19'-8	482	2427	21.8
	d2	40 - #9 AS SHOWN	8'-7	1167		
	f1	21 - #5 @ 1'-0	7'-8	168		
	f2	8 - #5 @ 1'-0	20'-8	172		
3'-6 x 9' x 21'	g1	21 - #7 @ 1'-0	7'-8	329	2713	24.5
	g2	14 - #7 @ 0'-6 1/2	20'-8	591		
	d2	40 - #9 AS SHOWN	8'-7	1167		
	f1	21 - #5 @ 1'-0	8'-8	190		
	f2	9 - #5 @ 1'-0	20'-8	194		
	g1	21 - #8 @ 1'-0	8'-8	486		
	g2	16 - #7 @ 0'-6 1/2	20'-8	676		



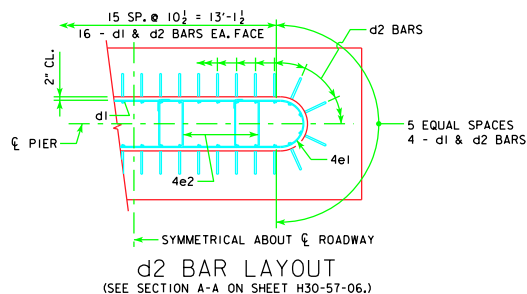
3'-6 x 8'-0 x 20'-0 FOR IOA & IIA



3'-6 x 8'-0 x 21'-0 FOR IOB & IIB



3'-6 x 9'-0 x 21'-0 FOR IOC & IIC



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

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 H30-57-06.

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	07-10	 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	
			0° SKEW - H:16' to 24'	
APPROVED BY BRIDGE ENGINEER		H30-60-06		