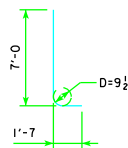


TYPICAL SECTION

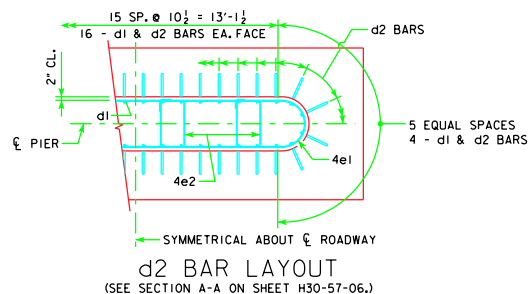


d2

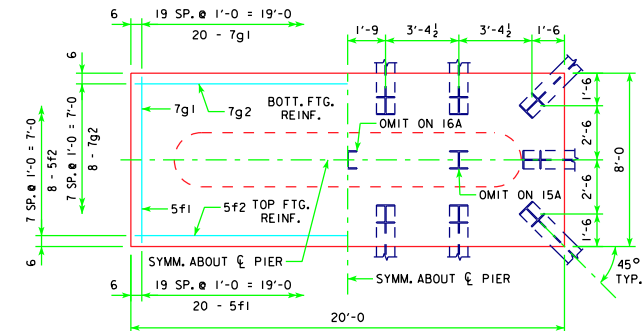
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	
18 16 10 21	201'-4	15A	49	141	3'-6 x 8' x 20'
	213'-10	16A	48	138	
	226'-4	16A	50	144	
	243'-0	17A	50	144	
20 19 10 21	201'-4	15B	50	143	3'-6 x 8' x 22'
	213'-10	16B	49	140	
	226'-4	16B	50	146	
	243'-0	17B	50	146	
22 20 19 24	201'-4	16B	48	139	3'-6 x 8' x 22'
	213'-10	16B	50	144	
	226'-4	17B	50	144	
	243'-0	18A	50	143	

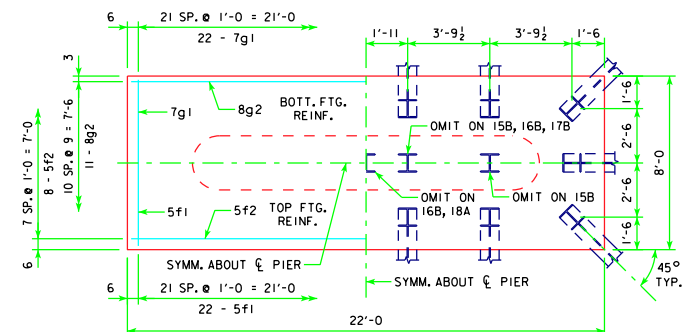
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
3'-6 x 8' x 20'	d2	40 - #9 AS SHOWN	8'-7	1167	2126	20.7
	f1	20 - #5 @ 1'-0	7'-8	160		
	f2	8 - #5 @ 1'-0	19'-8	164		
	g1	20 - #7 1'-0	7'-8	313		
	g2	8 - #7 @ 1'-0	19'-8	322		
	d2	40 - #9 AS SHOWN	8'-7	1167		
3'-6 x 8' x 22'	f1	22 - #5 @ 1'-0	7'-8	176	2505	22.8
	f2	8 - #5 @ 1'-0	21'-8	181		
	g1	22 - #7 @ 1'-0	7'-8	345		
	g2	11 - #8 @ 0'-9	21'-8	636		



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



3'-6 x 8'-0 x 20'-0 FOR 15A, 16A & 17A



3'-6 x 8'-0 x 22'-0 FOR 15B, 16B, 17B & 18A

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	APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES DECEMBER, 2006	
		TEE PIER - 50 TON STEEL PILE FOOTINGS 0° SKEW - H:16' to 24'	H30-58-06



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
0° SKEW - H:16' to 24'

H30-58-06

07-10

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Thomas E. McQuinn