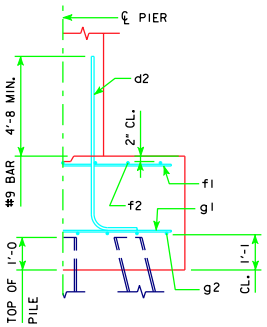
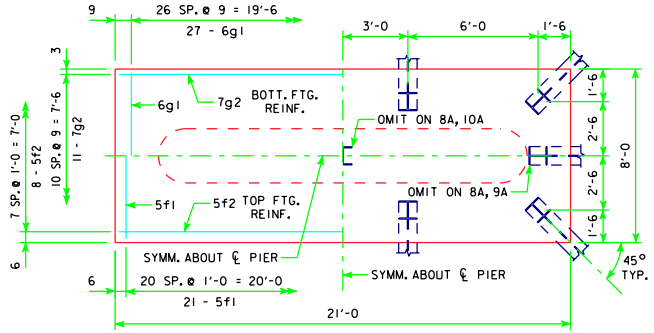
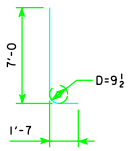


TYPICAL SECTION



3'-6 x 8'-0 x 21'-0 FOR 8A, 9A & 10A

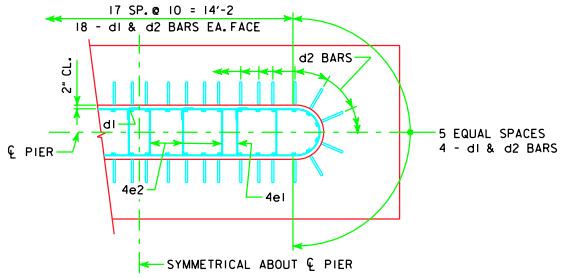


d2

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

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	FOOTING SIZE
16 TO 18	201'-4	8A	73	211	3'-6 x 8' x 21'
	213'-10	8A	76	219	
	226'-4	9A	74	212	
	243'-0	10A	66	189	
19 TO 21	201'-4	8A	75	217	3'-6 x 8' x 21'
	213'-10	10A	63	182	
	226'-4	10A	66	189	
	243'-0	10A	68	196	
22 TO 24	201'-4	10A	63	182	3'-6 x 8' x 21'
	213'-10	10A	65	188	
	226'-4	10A	68	195	
	243'-0	10A	70	202	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 8' x 21'	d2	44 - #9 AS SHOWN	8'-7	1284	2400	21.8
	f1	21 - #5 @ 1'-0	7'-8	168		
	f2	8 - #5 @ 1'-0	20'-8	172		
	g1	27 - #6 @ 0'-9	7'-8	311		
	g2	11 - #7 @ 0'-9	20'-8	465		



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H24-57-06.)

① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

② 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 H24-57-06.

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.

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 - 75 TON STEEL PILE FOOTINGS

15° SKEW - H=16' TO 24'

H24-60-06

REVISED 01-10 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.