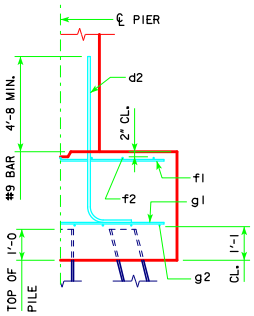
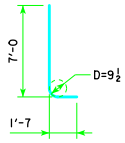
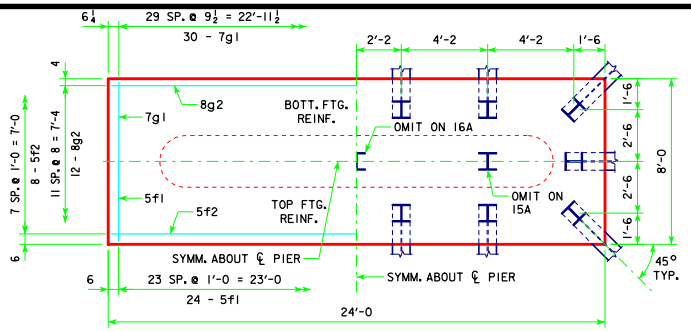



## TYPICAL SECTION

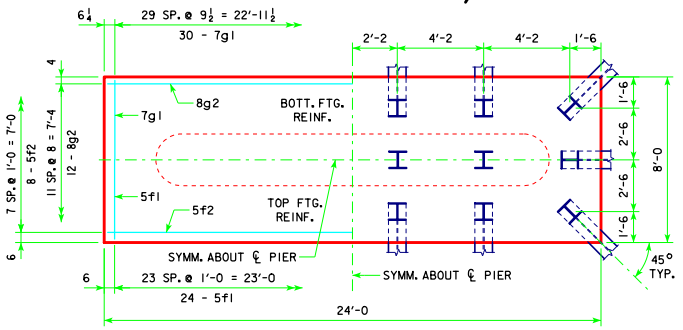



## d2

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



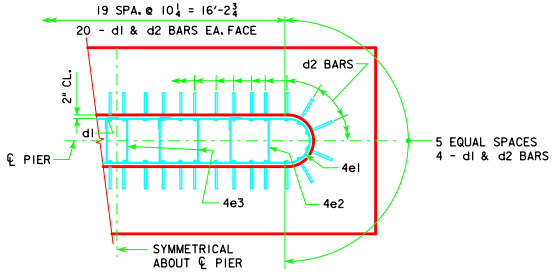

## 3'-6 x 8'-0 x 24'-0 FOR 15A, 16A & 17A




## 3'-6 x 8'-0 x 24'-0 FOR 18A

| H IN FT. | ℄ - ℄ ABUT. BRG. | PILING (HP10x57) NO. & LAYOUT | ① LRFD PU, STRENGTH I DES. BRG. (KIPS) | FOOTING SIZE |
|---|---|---|---|---|
| 16 TO 18 | 201'-4 | 15A | 207 | 3'-6 x 8' x 24' |
| | 213'-10 | 15A | 215 | |
| | 226'-4 | 16A | 211 | |
| | 243'-0 | 16A | 220 | |
| 19 TO 21 | 201'-4 | 15A | 212 | 3'-6 x 8' x 24' |
| | 213'-10 | 15A | 220 | |
| | 226'-4 | 16A | 215 | |
| | 243'-0 | 17A | 216 | |
| 22 TO 24 | 201'-4 | 15A | 216 | 3'-6 x 8' x 24' |
| | 213'-10 | 16A | 210 | |
| | 226'-4 | 16A | 219 | |
| | 243'-0 | 18A | 212 | |

| FOOTING SIZE | REINFORCING STEEL (ONE FOOTING) BAR | NO., SIZE & SPACING | LENGTH | WEIGHT (LB.) | TOTAL WEIGHT (LB.) | STRUCTURAL CONCRETE (CY) |
|---|---|---|---|---|---|---|
| 3'-6 x 8' x 24' | d2 | 48 - #9 AS SHOWN | 8'-7 | 1401 | 3018 | 24.9 |
| | f1 | 24 - #5 @ 1'-0 | 7'-8 | 192 | | |
| | f2 | 8 - #5 @ 1'-0 | 23'-8 | 197 | | |
| | g1 | 30 - #7 @ 0'-9½ | 7'-8 | 470 | | |
| | g2 | 12 - #8 @ 0'-8 | 23'-8 | 758 | | |




## d2 BAR LAYOUT

(SEE SECTION A-A ON SHEET H44-58-07.)

① NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

## 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 H44-58-07.

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.

PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.

05-13
LATEST REVISION DATE

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-HP10x57 SRL-2 STEEL PILE FOOTINGS

15° SKEW - H=16' TO 24'

H44-62-07

REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.