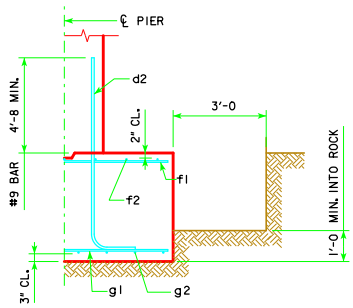
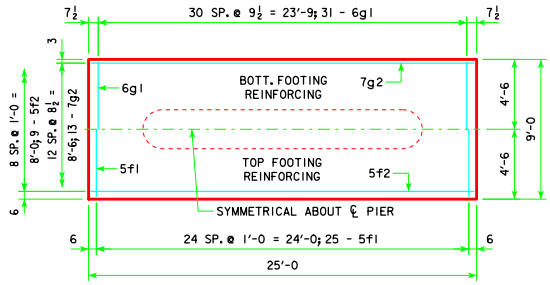
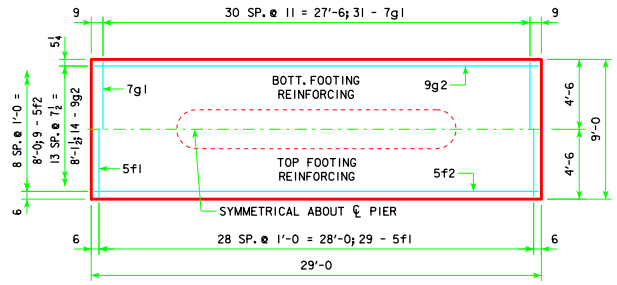


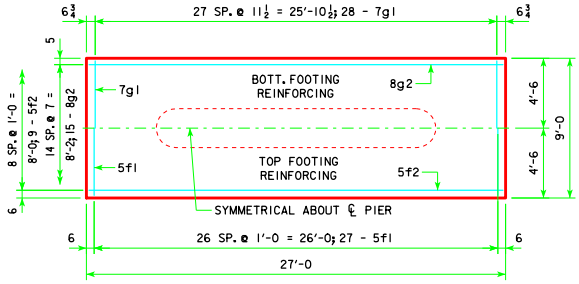

TYPICAL SECTION



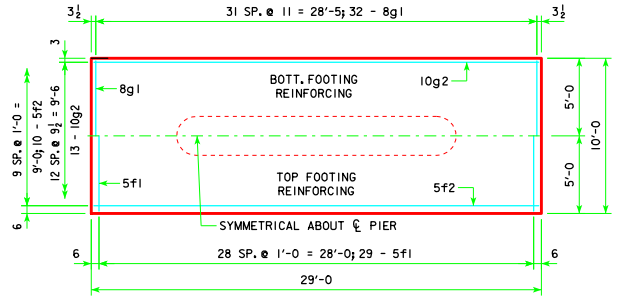

3'-6 x 9'-0 x 25'-0




3'-6 x 9'-0 x 29'-0

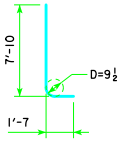



3'-6 x 9'-0 x 27'-0




3'-6 x 10'-0 x 29'-0

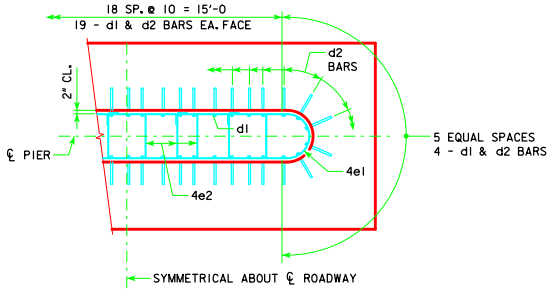
| H IN FT. | ℄ - ℄ ABUT. BRG. | FOOTING SIZE |
|---|---|---|
| 16 TO 18 | 138'-10 | 3'-6 x 9' x 25' |
| | 151'-4 | |
| | 163'-10 | |
| | 176'-4 | 3'-6 x 9' x 27' |
| | 188'-10 | |
| | 201'-4 | 3'-6 x 9' x 29' |
| | 213'-10 | |
| | 226'-4 | 3'-6 x 10' x 29' |
| | 243'-0 | |
| 19 TO 21 | 138'-10 | 3'-6 x 9' x 25' |
| | 151'-4 | |
| | 163'-10 | |
| | 176'-4 | 3'-6 x 9' x 27' |
| | 188'-10 | |
| | 201'-4 | 3'-6 x 9' x 29' |
| | 213'-10 | |
| | 226'-4 | 3'-6 x 10' x 29' |
| | 243'-0 | |
| 22 TO 24 | 138'-10 | 3'-6 x 9' x 25' |
| | 151'-4 | |
| | 163'-10 | |
| | 176'-4 | 3'-6 x 9' x 27' |
| | 188'-10 | |
| | 201'-4 | 3'-6 x 9' x 29' |
| | 213'-10 | |
| | 226'-4 | 3'-6 x 10' x 29' |
| | 243'-0 | |




d2

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

| FOOTING SIZE | REINFORCING STEEL (ONE FOOTING) | | | | | STRUCTURAL CONCRETE (CY) |
|---|---|---|---|---|---|---|
| | BAR | NO., SIZE & SPACING | LENGTH | WEIGHT (LB.) | TOTAL WEIGHT (LB.) | |
| 3'-6 x 9' x 25' | d2 | 46 - #9 AS SHOWN | 9'-5 | 1473 | 2990 | 29.2 |
| | f1 | 25 - #5 @ 1'-0 | 8'-8 | 226 | | |
| | f2 | 9 - #5 @ 1'-0 | 24'-8 | 232 | | |
| | g1 | 31 - #6 @ 0'-9½ | 8'-8 | 404 | | |
| | g2 | 13 - #7 @ 0'-8½ | 24'-8 | 655 | | |
| 3'-6 x 9' x 27' | d2 | 46 - #9 AS SHOWN | 9'-5 | 1473 | 3531 | 31.5 |
| | f1 | 27 - #5 @ 1'-0 | 8'-8 | 244 | | |
| | f2 | 9 - #5 @ 1'-0 | 26'-8 | 250 | | |
| | g1 | 28 - #7 @ 0'-11½ | 8'-8 | 496 | | |
| | g2 | 15 - #8 @ 0'-7 | 26'-8 | 1068 | | |
| 3'-6 x 9' x 29' | d2 | 46 - #9 AS SHOWN | 9'-5 | 1473 | 3918 | 33.8 |
| | f1 | 29 - #5 @ 1'-0 | 8'-8 | 262 | | |
| | f2 | 9 - #5 @ 1'-0 | 28'-8 | 269 | | |
| | g1 | 31 - #7 @ 0'-11 | 8'-8 | 549 | | |
| | g2 | 14 - #9 @ 0'-7½ | 28'-8 | 1365 | | |
| 3'-6 x 10' x 29' | d2 | 46 - #9 AS SHOWN | 9'-5 | 1473 | 4494 | 37.6 |
| | f1 | 29 - #5 @ 1'-0 | 9'-8 | 292 | | |
| | f2 | 10 - #5 @ 1'-0 | 28'-8 | 299 | | |
| | g1 | 32 - #8 @ 0'-11 | 9'-8 | 826 | | |
| | g2 | 13 - #10 @ 0'-9½ | 28'-8 | 1604 | | |




d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H44-50-07.)

## FOOTING NOTES:

THESE SPREAD 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.

THESE SPREAD FOOTINGS SHALL EXTEND AT LEAST 6 INCHES INTO SUITABLE FOUNDATION ROCK AND THE LAST 6 INCHES OF ROCK EXCAVATION SHALL BE TO NEAT LINES OF MASONRY. THE FOUNDATION ROCK SHALL HAVE A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 30 kips PER SQUARE FOOT (ALLOWABLE BEARING VALUE OF AT LEAST 5 TONS PER SQUARE FOOT).

04-12
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 - SPREAD FOOTINGS

0° SKEW - H=16' TO 24'

H44-56-07

REVISED 04-12 - EXCAVATION LIMIT WAS CHANGED TO 3'-0.