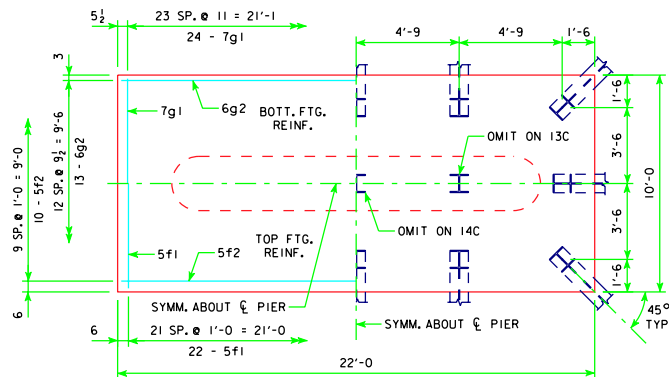


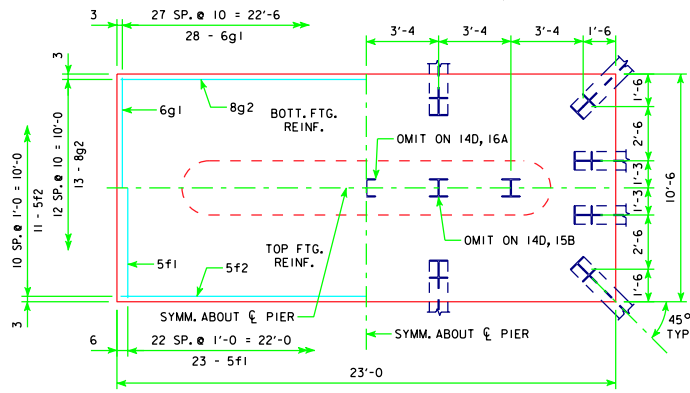
TYPICAL SECTION

| H<br>IN<br>FT. | C - C<br>ABUT.<br>BRG. | PILING (HP10x57) |                          |                               | FOOTING SIZE |
|----------------|------------------------|------------------|--------------------------|-------------------------------|--------------|
|                |                        | NO. &<br>LAYOUT  | ① DES.<br>BRG.<br>(TONS) | ② LRFD<br>DES. BRG.<br>(KIPS) |              |
| 201'-4         | 13C                    | 50               | 146                      | 4' x 10' x 22'                |              |
| 213'-10        | 14C                    | 49               | 140                      |                               |              |
| 226'-4         | 14C                    | 50               | 143                      |                               |              |
| 243'-0         | 15A                    | 49               | 143                      | 4' x 10'-6 x 23'              |              |
| 201'-4         | 14D                    | 48               | 138                      |                               |              |
| 213'-10        | 14D                    | 50               | 143                      |                               |              |
| 226'-4         | 15B                    | 49               | 141                      | 4' x 10'-6 x 23'              |              |
| 243'-0         | 15B                    | 50               | 146                      |                               |              |
| 201'-4         | 14D                    | 50               | 145                      | 4' x 10'-6 x 23'              |              |
| 213'-10        | 15B                    | 49               | 142                      |                               |              |
| 226'-4         | 15B                    | 50               | 146                      |                               |              |
| 243'-0         | 16A                    | 50               | 144                      | 4' x 11' x 24'                |              |
| 201'-4         | 15C                    | 48               | 139                      |                               |              |
| 213'-10        | 15C                    | 49               | 141                      |                               |              |
| 226'-4         | 15C                    | 50               | 144                      | 4' x 12' x 25'                |              |
| 243'-0         | 16B                    | 48               | 140                      |                               |              |
| 201'-4         | 15D                    | 50               | 146                      |                               |              |
| 213'-10        | 15D                    | 50               | 144                      | 4' x 12' x 25'                |              |
| 226'-4         | 16C                    | 49               | 142                      |                               |              |
| 243'-0         | 16C                    | 50               | 144                      |                               |              |

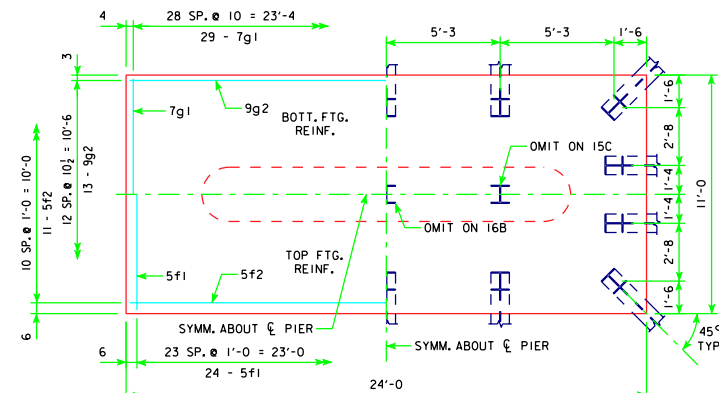
| FOOTING SIZE     | REINFORCING STEEL (ONE FOOTING) |        |              |      | TOTAL WEIGHT (LB.) | STRUCTURAL CONCRETE (CY) |
|------------------|---------------------------------|--------|--------------|------|--------------------|--------------------------|
|                  | BAR NO., SIZE & SPACING         | LENGTH | WEIGHT (LB.) |      |                    |                          |
| 4' x 10' x 22'   | d2 44 - #9 AS SHOWN             | 9'-1   | 1359         | 2704 | 32.6               |                          |
|                  | f1 22 - #5 @ 1'-0               | 9'-8   | 222          |      |                    |                          |
|                  | f2 10 - #5 @ 1'-0               | 21'-8  | 226          |      |                    |                          |
|                  | g1 24 - #7 @ 0'-11              | 9'-8   | 474          |      |                    |                          |
|                  | g2 13 - #6 @ 0'-9 1/2           | 21'-8  | 423          |      |                    |                          |
|                  | d2 44 - #9 AS SHOWN             | 9'-1   | 1359         |      |                    |                          |
| 4' x 10'-6 x 23' | f1 23 - #5 @ 1'-0               | 10'-2  | 244          | 3078 | 35.8               |                          |
|                  | f2 11 - #5 @ 1'-0               | 22'-8  | 260          |      |                    |                          |
|                  | g1 28 - #6 @ 0'-10              | 10'-2  | 428          |      |                    |                          |
|                  | g2 13 - #8 @ 0'-10              | 22'-8  | 787          |      |                    |                          |
|                  | d2 44 - #9 AS SHOWN             | 9'-1   | 1359         |      |                    |                          |
|                  | f1 24 - #5 @ 1'-0               | 10'-8  | 267          |      |                    |                          |
| 4' x 11' x 24'   | f2 11 - #5 @ 1'-0               | 23'-8  | 272          | 3576 | 39.1               |                          |
|                  | g1 29 - #7 @ 0'-10              | 10'-8  | 632          |      |                    |                          |
|                  | g2 13 - #9 @ 0'-10 1/2          | 23'-8  | 1046         |      |                    |                          |
|                  | d2 44 - #9 AS SHOWN             | 9'-1   | 1359         |      |                    |                          |
|                  | f1 25 - #5 @ 1'-0               | 11'-8  | 304          |      |                    |                          |
|                  | f2 12 - #5 @ 1'-0               | 24'-8  | 309          |      |                    |                          |
| 4' x 12' x 25'   | g1 26 - #8 @ 0'-11 1/2          | 11'-8  | 810          | 4040 | 44.4               |                          |
|                  | g2 15 - #9 @ 0'-9 1/2           | 24'-8  | 1258         |      |                    |                          |



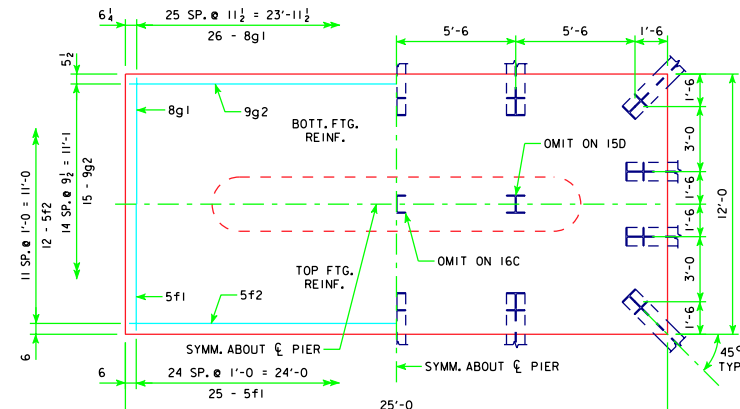
4'-0 x 10'-0 x 22'-0 FOR 13C, 14C & 15A



4'-0 x 10'-6 x 23'-0 FOR 14D, 15B & 16A



4'-0 x 11'-0 x 24'-0 FOR 15C & 16B



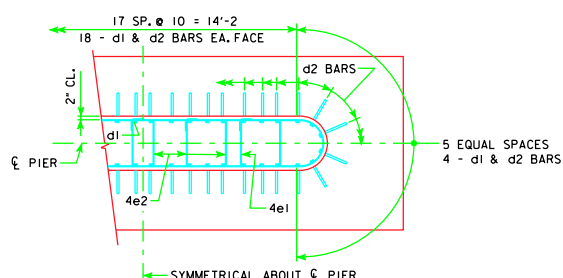
4'-0 x 12'-0 x 25'-0 FOR 15D & 16C

### 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.

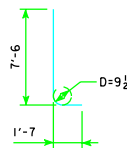
STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.



### d2 BAR LAYOUT

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

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



d2  
NOTE: D = PIN DIAMETER.  
DIMENSIONS ARE OUT TO OUT.

|                                                                                          |                                                                                                                             |                  |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------|
| 01-10<br>LATEST REVISION DATE<br>APPROVED BY BRIDGE ENGINEER<br><i>Thomas E. McQuinn</i> |                                                                                                                             |                  |
|                                                                                          | STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE<br><b>PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES</b><br>DECEMBER, 2006 |                  |
|                                                                                          | TEE PIER - 50 TON<br>STEEL PILE FOOTINGS<br>15° SKEW - H=25' TO 40'                                                         | <b>H24-59-06</b> |