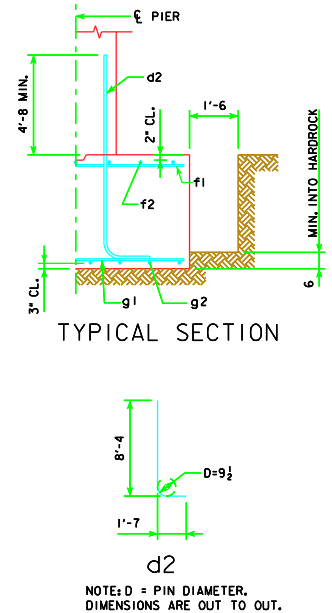


| FOOTING SIZE   | REINFORCING STEEL (ONE FOOTING) |                     |        |              | TOTAL WEIGHT (LB.) | STRUCTURAL CONCRETE (CY) |
|----------------|---------------------------------|---------------------|--------|--------------|--------------------|--------------------------|
|                | BAR                             | NO., SIZE & SPACING | LENGTH | WEIGHT (LB.) |                    |                          |
| 4' x 8' x 26'  | d2                              | 54 - #9 AS SHOWN    | 9'-11  | 1821         | 2962               | 30.8                     |
|                | f1                              | 26 - #5 @ 1'-0      | 7'-8   | 208          |                    |                          |
|                | f2                              | 8 - #5 @ 1'-0       | 25'-8  | 214          |                    |                          |
|                | g1                              | 26 - #6 @ 1'-0      | 7'-8   | 299          |                    |                          |
|                | g2                              | 8 - #7 @ 1'-0       | 25'-8  | 420          |                    |                          |
| 4' x 9' x 26'  | d2                              | 54 - #9 AS SHOWN    | 9'-11  | 1821         | 3160               | 34.7                     |
|                | f1                              | 26 - #5 @ 1'-0      | 8'-8   | 235          |                    |                          |
|                | f2                              | 9 - #5 @ 1'-0       | 25'-8  | 241          |                    |                          |
|                | g1                              | 30 - #6 @ 0'-10 1/2 | 8'-8   | 391          |                    |                          |
|                | g2                              | 9 - #7 @ 1'-0       | 25'-8  | 472          |                    |                          |
| 4' x 9' x 28'  | d2                              | 54 - #9 AS SHOWN    | 9'-11  | 1821         | 3577               | 37.3                     |
|                | f1                              | 28 - #5 @ 1'-0      | 8'-8   | 253          |                    |                          |
|                | f2                              | 9 - #5 @ 1'-0       | 27'-8  | 260          |                    |                          |
|                | g1                              | 33 - #6 @ 0'-10     | 8'-8   | 430          |                    |                          |
|                | g2                              | 11 - #8 @ 0'-10     | 27'-8  | 813          |                    |                          |
| 4' x 10' x 28' | d2                              | 54 - #9 AS SHOWN    | 9'-11  | 1821         | 3950               | 41.5                     |
|                | f1                              | 28 - #5 @ 1'-0      | 9'-8   | 282          |                    |                          |
|                | f2                              | 10 - #5 @ 1'-0      | 27'-8  | 289          |                    |                          |
|                | g1                              | 34 - #7 @ 0'-10     | 9'-8   | 672          |                    |                          |
|                | g2                              | 12 - #8 @ 0'-10     | 27'-8  | 886          |                    |                          |
| 4' x 10' x 30' | d2                              | 54 - #9 AS SHOWN    | 9'-11  | 1821         | 4575               | 44.4                     |
|                | f1                              | 30 - #5 @ 1'-0      | 9'-8   | 302          |                    |                          |
|                | f2                              | 10 - #5 @ 1'-0      | 29'-8  | 309          |                    |                          |
|                | g1                              | 37 - #7 @ 0'-9 1/2  | 9'-8   | 731          |                    |                          |
|                | g2                              | 14 - #9 @ 0'-8 1/2  | 29'-8  | 1412         |                    |                          |
| 4' x 11' x 30' | d2                              | 54 - #9 AS SHOWN    | 9'-11  | 1821         | 5062               | 48.9                     |
|                | f1                              | 30 - #5 @ 1'-0      | 10'-8  | 334          |                    |                          |
|                | f2                              | 11 - #5 @ 1'-0      | 29'-8  | 340          |                    |                          |
|                | g1                              | 37 - #8 @ 0'-9 1/2  | 10'-8  | 1054         |                    |                          |
|                | g2                              | 15 - #9 @ 0'-9      | 29'-8  | 1513         |                    |                          |
| 4' x 11' x 32' | d2                              | 54 - #9 AS SHOWN    | 9'-11  | 1821         | 5831               | 52.1                     |
|                | f1                              | 32 - #5 @ 1'-0      | 10'-8  | 356          |                    |                          |
|                | f2                              | 11 - #5 @ 1'-0      | 31'-8  | 363          |                    |                          |
|                | g1                              | 39 - #8 @ 0'-9 1/2  | 10'-8  | 1111         |                    |                          |
|                | g2                              | 16 - #10 @ 0'-8     | 31'-8  | 2180         |                    |                          |



**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 RS40-126-10.

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).

|                                                                                       |                                                                                                                                                           |             |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| LATEST REVISION DATE<br><br><i>Norman E. Mc Donald</i><br>APPROVED BY BRIDGE ENGINEER |  <b>Iowa Department of Transportation</b><br><b>Highway Division</b> |             |
|                                                                                       | STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES<br><br><b>ROLLED STEEL BEAM BRIDGES</b><br><br>JUNE, 2010                                                   |             |
|                                                                                       | TEE PIER - SPREAD<br>FOOTINGS<br>10° SKEW - SHEET 1                                                                                                       | RS40-134-10 |