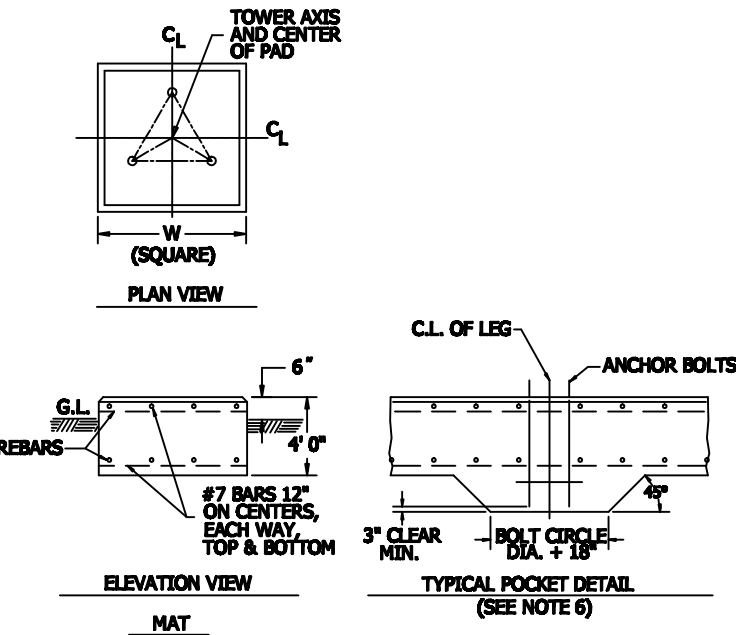
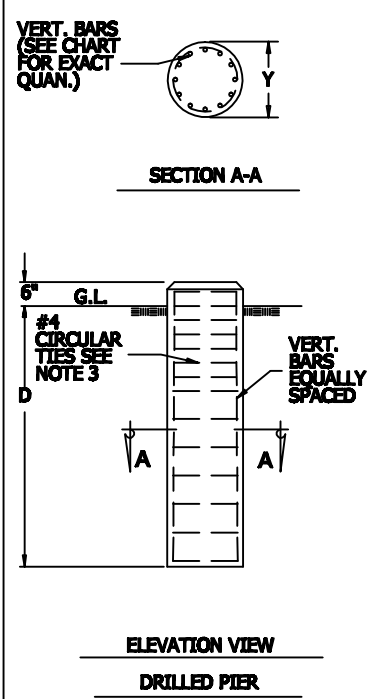
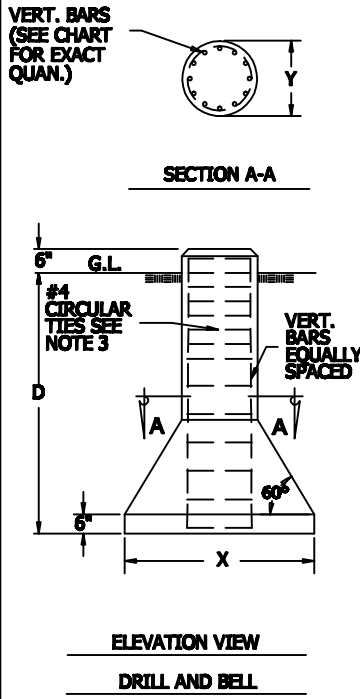
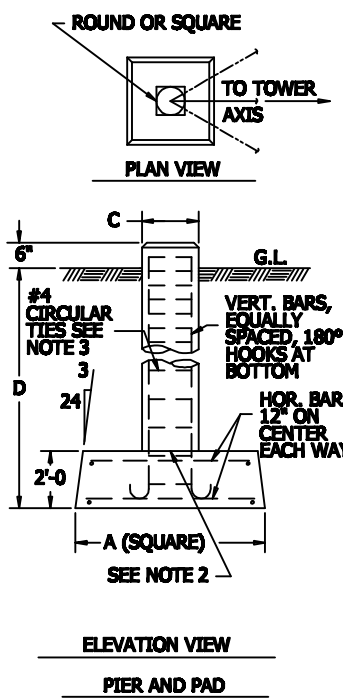


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Vertical

| FDN. I.D. NO. | MAX ANCHOR BOLT SIZE, ALL FND TYPES | LIMITS FOR TYPES 1,2 & 3 |                             |                               | PIER AND PAD (TYPE 1) |       |       |      |            |           |                               |        | DRILL AND BELL (TYPE 2) |       |      |      |            |                               | DRILLED PIER (TYPE 3) |       |      |            |                                 |                                                            | MAT (TYPE 4)         |       |                                |  |
|---------------|-------------------------------------|--------------------------|-----------------------------|-------------------------------|-----------------------|-------|-------|------|------------|-----------|-------------------------------|--------|-------------------------|-------|------|------|------------|-------------------------------|-----------------------|-------|------|------------|---------------------------------|------------------------------------------------------------|----------------------|-------|--------------------------------|--|
|               |                                     | ALLOW. LEG LOAD (KIPS)   | ALLOW. SHEAR (KIPS PER LEG) | MIN ANCHOR BOLT SIZE (NOTE 6) | MIN FACE SPREAD       | D     | A     | C    | VERT. BARS | HOR. BARS | REQ'D CONC. (CU. YDS. 3 FDNS) |        | MIN FACE SPREAD         | D     | X    | Y    | VERT. BARS | REQ'D CONC. (CU. YDS. 3 FDNS) | MIN FACE SPREAD       | D     | Y    | VERT. BARS | REQ'D. CONC. (CU. YDS. 3 PIERS) | MAX FACE SPREAD                                            | MAX O.T.M. FOOT KIPS | W     | REQ'D CONC. (CU.YDS.) (NOTE 6) |  |
|               |                                     |                          |                             |                               |                       |       |       |      |            |           | ROUND                         | SQUARE |                         |       |      |      |            |                               |                       |       |      |            |                                 |                                                            |                      |       |                                |  |
| F1            | (4) 5/8                             | 4.5                      |                             | N/A                           |                       |       |       |      |            |           |                               |        |                         |       |      |      |            |                               |                       |       |      |            |                                 | 1' 6                                                       | 12.8                 | 4' 0  | 2.4                            |  |
| F2            | (4) 5/8                             | 11.2                     |                             | N/A                           |                       |       |       |      |            |           |                               |        |                         |       |      |      |            |                               |                       |       |      |            |                                 | 2' 10                                                      | 33.2                 | 5' 6  | 4.5                            |  |
| F3            | (4) 5/8                             | 19.6                     |                             | N/A                           |                       |       |       |      |            |           |                               |        |                         |       |      |      |            |                               |                       |       |      |            |                                 | 3' 11                                                      | 61.5                 | 6' 9  | 6.8                            |  |
| F4            | (4) 5/8                             | 28.0                     |                             | N/A                           |                       |       |       |      |            |           |                               |        |                         |       |      |      |            |                               |                       |       |      |            |                                 | 5' 0                                                       | 102                  | 8' 0  | 9.5                            |  |
| F5            | (4) 5/8                             | 36.0                     |                             | N/A                           |                       |       |       |      |            |           |                               |        |                         |       |      |      |            |                               |                       |       |      |            |                                 | 5' 8                                                       | 133                  | 8' 9  | 11.3                           |  |
| F6            | (4) 7/8                             | 33.7                     | 4.0                         | 5/8X42                        | 6' 6                  | 8' 0  | 4' 6  | 2' 0 | 8 #6       | #6        | 6.3                           | 6.9    |                         |       |      |      |            |                               |                       |       |      |            |                                 | 7' 7                                                       | 304                  | 11' 6 | 19.6                           |  |
| F7            | (4) 7/8                             | 43.6                     | 6.0                         | 5/8X42                        | 8' 6                  | 8' 9  | 5' 6  | 2' 0 | 8 #7       | #6        | 8.7                           | 9.4    | 7' 6                    | 11' 0 | 4' 6 | 2' 6 | 10 #6      | 7.8                           | 7' 6                  | 16' 0 | 2' 6 | 10 #6      | 9.0                             | 10' 0                                                      | 578                  | 14' 3 | 30.1                           |  |
| F8            | (4) 7/8                             | 52.5                     | 6.0                         | 5/8X42                        | 8' 6                  | 8' 9  | 5' 6  | 2' 0 | 8 #7       | #6        | 8.7                           | 9.4    | 7' 6                    | 11' 0 | 4' 6 | 2' 6 | 10 #6      | 7.8                           | 7' 6                  | 18' 6 | 2' 6 | 10 #6      | 10.4                            | 11' 1                                                      | 819                  | 16' 0 | 37.9                           |  |
| F9            | (4) 7/8                             | 56.0                     | 8.0                         | 5/8X42                        | 8' 6                  | 9' 0  | 5' 6  | 2' 0 | 8 #7       | #6        | 8.8                           | 9.5    | 7' 6                    | 11' 0 | 5' 0 | 2' 6 | 10 #6      | 8.7                           | 7' 6                  | 19' 6 | 2' 6 | 10 #6      | 10.9                            | 13' 0                                                      | 1210                 | 18' 3 | 49.3                           |  |
| F10           | (4) 1                               | 64.9                     | 10.0                        | 3/4X48                        | 8' 6                  | 10' 0 | 5' 6  | 2' 6 | 8 #8       | #6        | 10.8                          | 12.0   | 7' 6                    | 12' 0 | 5' 0 | 2' 6 | 10 #6      | 9.2                           | 7' 6                  | 21' 9 | 2' 6 | 10 #6      | 12.2                            | 14' 11                                                     | 1780                 | 20' 9 | 63.8                           |  |
| F11           | (4) 1                               | 85.6                     | 10.0                        | 3/4X48                        | 8' 6                  | 11' 0 | 5' 6  | 2' 6 | 10 #8      | #6        | 11.3                          | 12.7   | 8' 0                    | 12' 6 | 6' 0 | 2' 6 | 10 #6      | 11.8                          | 9' 0                  | 22' 9 | 3' 0 | 12 #6      | 18.3                            | 16' 10                                                     | 2430                 | 23' 0 | 78.4                           |  |
| F12           | (6) 1                               | 114.0                    | 15.0                        | 7/8X60                        | 9' 6                  | 12' 0 | 6' 3  | 3' 0 | 12 #8      | #6        | 16.3                          | 18.5   | 9' 0                    | 14' 0 | 6' 6 | 3' 0 | 10 #7      | 16.7                          | 10' 6                 | 25' 0 | 3' 6 | 12 #7      | 27.3                            | 18' 11                                                     | 3610                 | 26' 3 | 102                            |  |
| F13           | (6) 1                               | 129.0                    | 15.0                        | 7/8X60                        | 10' 0                 | 12' 6 | 6' 6  | 3' 0 | 12 #8      | #6        | 17.3                          | 19.7   | 9' 0                    | 14' 0 | 7' 0 | 3' 0 | 12 #7      | 18.4                          | 10' 6                 | 27' 6 | 3' 6 | 12 #7      | 30.0                            | NOTE: MAX O.T.M. IS ABOUT MAT CENTERLINE AT BOTTOM OF MAT. |                      |       |                                |  |
| F14           | (6) 1                               | 152.0                    | 15.0                        | 7/8X60                        | 11' 0                 | 13' 0 | 7' 3  | 3' 0 | 12 #8      | #6        | 19.9                          | 22.4   | 9' 3                    | 15' 0 | 7' 3 | 3' 0 | 12 #8      | 20.1                          | 12' 0                 | 30' 0 | 4' 0 | 12 #8      | 42.6                            |                                                            |                      |       |                                |  |
| F15           | (8) 1                               | 184.0                    | 20.0                        | 7/8X60                        | 12' 6                 | 13' 9 | 7' 9  | 3' 6 | 16 #8      | #6        | 25.6                          | 29.2   | 10' 6                   | 16' 0 | 8' 0 | 3' 6 | 12 #8      | 27.6                          | 12' 0                 | 38' 0 | 4' 0 | 12 #8      | 53.8                            |                                                            |                      |       |                                |  |
| F16           | (8) 1                               | 215.0                    | 25.0                        | 1X70                          | 14' 0                 | 14' 0 | 8' 9  | 3' 6 | 16 #8      | #6        | 29.4                          | 33.1   | 10' 9                   | 16' 0 | 8' 9 | 3' 6 | 16 #8      | 31.4                          | 13' 6                 | 38' 0 | 4' 6 | 16 #8      | 68.0                            |                                                            |                      |       |                                |  |
| F17           | (8) 1                               | 242.0                    | 25.0                        | 1X70                          | 15' 3                 | 14' 0 | 9' 9  | 3' 6 | 16 #9      | #7        | 33.4                          | 37.1   | 11' 3                   | 17' 0 | 9' 3 | 3' 6 | 16 #8      | 35.4                          | 13' 6                 | 44' 0 | 4' 6 | 16 #8      | 78.6                            |                                                            |                      |       |                                |  |
| F18           | (8) 1                               | 268.0                    | 35.0                        | 1X70                          | 16' 6                 | 14' 0 | 10' 9 | 4' 0 | 21 #9      | #7        | 42.0                          | 46.7   | 12' 0                   | 17' 0 | 9' 9 | 4' 0 | 16 #9      | 42.7                          | 13' 6                 | 49' 0 | 4' 6 | 16 #8      | 87.5                            |                                                            |                      |       |                                |  |



- GENERAL NOTES**
1. FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION NOTES AND TOLERANCES SEE DRAWING NUMBER B841300.
  2. ROUGHEN CONSTRUCTION JOINT TO A FULL AMPLITUDE OF 1/4 INCH.
  3. CIRCULAR TIES TO BE PLACED ON 3 INCH CENTERS FOR TOP 4 FEET AND 12 INCH CENTERS FROM 4 FEET TO BOTTOM, WITH 22 INCH LAPS.
  4. FOR ANCHOR BOLT SIZE AND QUANTITY SEE ANCHOR BOLT LAYOUT DRAWING FOR TOWER.
  5. MINIMUM ANCHOR BOLT SIZE SHOWN IS REQUIRED FOR DEVELOPMENT WITH VERTICAL REINFORCING BARS. LARGER ANCHOR BOLTS MAY BE REQUIRED BASED ON TOWER REACTIONS.
  6. ANCHOR BOLTS OVER 48 INCH LONG REQUIRE POCKETS UNDERNEATH EACH LEG FOR MAT FOUNDATIONS. CONCRETE VOLUME INDICATED IN TABLE DOES NOT INCLUDE VOLUME OF POCKETS. SEE TYPICAL POCKET DETAILS FOR MAT FOUNDATION.

FILE NO.

Standard-SSV

REVISIONS

| REV. | DESCRIPTION                                                                          | DWN | CHK | APP |
|------|--------------------------------------------------------------------------------------|-----|-----|-----|
| 3    | UPDATED TO STRAIGHT ANCHORS                                                          | M.F | KTL | H.A |
| 4    | DATE: Mar/02/2006<br>REVISED ANCHOR BOLT LENGTH FOR F16, F17 & F18 FROM 110" TO 110" | JWS | JDM | H.A |
| 5    | DATE: Feb/28/2007<br>CORRECTED TABLE NOTES                                           | LGC | JDM | H.A |
|      | DATE: Apr/28/2008                                                                    |     |     |     |

DWG REFERENCE

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FOUNDATION  
FOR SELF SUPPORTING TOWERS

DWN: WDU

CHKD: RAM

DATE: Dec/10/1987

ENGR: XK

DRAWING NO: D870532

REV: 5