





- NOTES**
- 1) ALL ELEVATIONS AND COORDINATES ARE IN "m" AND DIMENSIONS ARE IN "mm" UNLESS OTHERWISE NOTED.
 - 2) ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - 3) 28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF CONCRETE IS 30MPa. (ON CYLINDRICAL SPECIMEN)
 - 4) 28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 15MPa. (ON CYLINDRICAL SPECIMEN)
 - 5) CONCRETE COVER OVER BARS SHALL BE 75mm FOR FOUNDATION AND 40mm FOR CAST IN-SITU OTHER PARTS.
 - 6) TENSION STRENGTH OF BARS SHALL BE OF MINIMUM $F_y = 400 \text{ kg/cm}^2$.
 - 7) CEMENT TYPE II SHALL BE USED ACCORDING TO GEOTECHNICAL REPORT SUGGESTION.
 - 8) FILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR) METHOD.
 - 9) REINFORCEMENT SHALL BE ADJUSTED LOGICALLY TO SUIT THE RECESS OF ANCHOR BOLTS, HOLES AND OTHER EMBEDDED MATERIALS.
 - 10) THE EMULSION SHOULD BE USED ON CONCRETE EXPOSED WITH SOIL. B-90-QOAT.M.E IS A BITUMEN-BASED ONE-COMPONENT EMULSION PROTECTIVECOATING TO PREVENT THE PENETRATION OF DESTRUCTIVE SALTS & IONS.
 - 11) THIS MATERIAL IS CONTROLLED ACCORDING TO THE FOLLOWING STANDARDS: ASTM D1227, ASTM D2939, ASTM D1640
 - 12) SAND PAD MATERIAL SHALL BE CLEAN WASHED SAND, SAND CHARACTERISTICS SHALL SATISFY THE REQUIREMENTS IN API 651 (PAR.5.3.2.1) FOR NON CORROSIVE SAND.

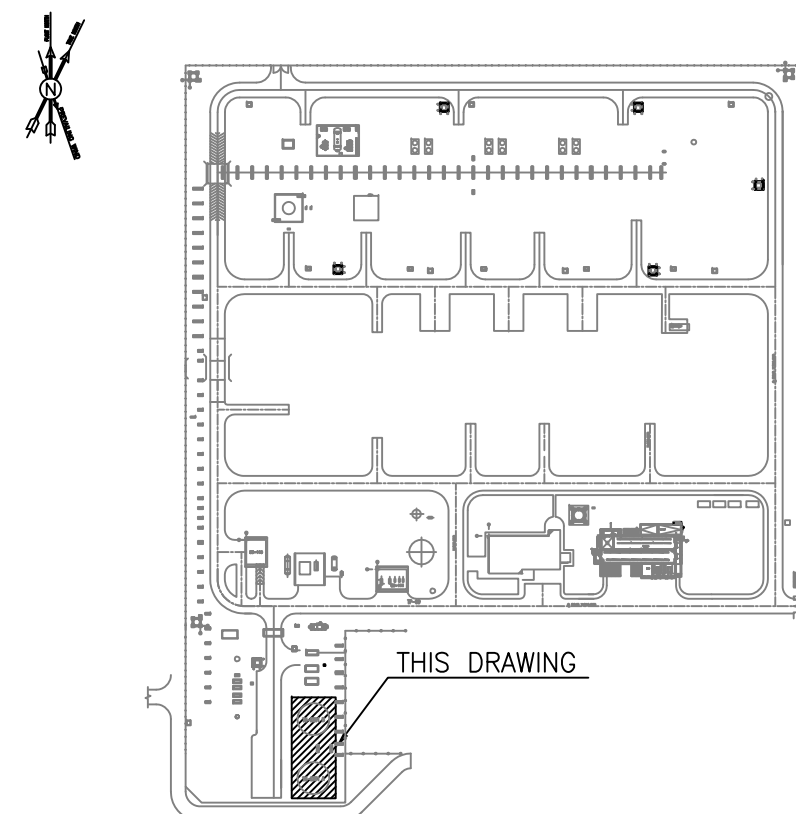
$$\pm 0.00 = +11.05(\text{R.G.L.})\text{MSL}$$

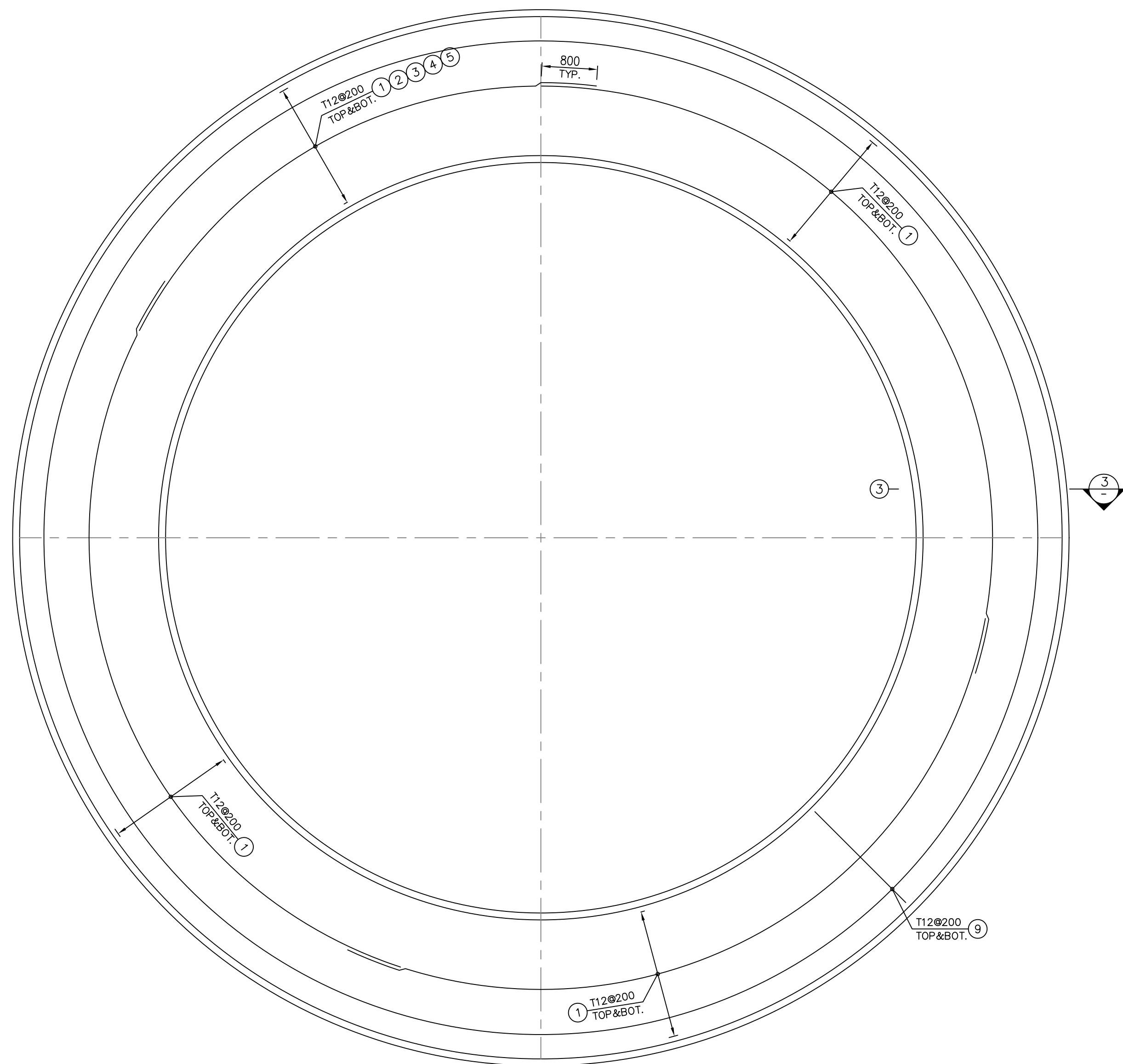
LEGEND AND ABBREVIATION

| | | | |
|---|---------------------|--------|----------------------|
|  | REINFORCED CONCRETE | T.O.F. | TOP OF FOUNDATION |
|  | LEAN CONCRETE | B.O.F. | BOTTOM OF FOUNDATION |
|  | GRAVEL | C.J. | CONSTRUCTION JOINT |
|  | SUB GRADE | R.G.L. | ROUGH GRADING LEVEL |
| | | T.O.G. | TOP OF GROUT |

| REFERENCE DRAWING | DRG. No. |
|-----------------------------------|------------------------------|
| UNIT PLOT PLAN DRAWING | BK-GCS-PEDCO-120-PI-PY-0001 |
| STANDARD DRAWING FOR ANCHOR BOLTS | BK-GNRL-PEDCO-000-ST-DW-0002 |
| SPECIFICATION FOR CONCRETE WORK | BK-GNRL-PEDCO-000-ST-SP-0001 |
| SPECIFICATION FOR GROUTING | BK-GNRL-PEDCO-000-ST-SP-0004 |


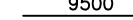
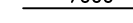
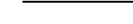


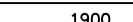
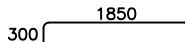

KEY PLAN

[illegible]



Technical drawing of a circular structure, likely a culvert or tunnel, showing reinforcement details. The drawing includes a cross-section view and a plan view. The cross-section view shows a circular structure with a diameter of 800 TYP. The reinforcement is indicated by a line labeled 6T16 (6). The plan view shows the circular structure with a diameter of 800 TYP. The reinforcement is indicated by a line labeled 6T16 (6). The drawing also includes a detail of a reinforcement bar labeled T16Ø200 (8). A note at the bottom right indicates that the reinforcement is to be placed in the top and bottom of the structure.





[illegible]

| BAR BENDING SCHEDULE | | | | | | |
|--------------------------|-------|---|-------|-----|---------|---------|
| Pos | Spec. | Shape | L/A | No. | T12 | T16 |
| 1 | T12 |  | 12.00 | 64 | 768.0 | |
| 2 | T12 |  | 9.50 | 4 | 38.0 | |
| 3 | T12 |  | 7.00 | 4 | 28.0 | |
| 4 | T12 |  | 4.50 | 4 | 18.0 | |
| 5 | T12 |  | 2.00 | 4 | 8.0 | |
| 6 | T16 |  | 12.00 | 60 | | 720.0 |
| 7 | T16 |  | 8.00 | 20 | | 160.0 |
| 8 | T16 |  | 2.40 | 440 | | 1056.0 |
| 9 | T12 |  | 2.45 | 400 | 980.0 | |
| | | | | | | |
| TOTAL LENGTH OR AREA (m) | | | | | 1840.0 | 1936.0 |
| UNIT WEIGHT (Kg/m) | | | | | 0.888 | 1.578 |
| WEIGHT (Kg) | | | | | 1633.92 | 3055.01 |
| GRAND TOTAL (Kg) | | | | | 4690 | |

[illegible]

- $$\pm 0.00 = +11.05(\text{R.G.L.})\text{MSL}$$

LEGEND AND ABBREVIATION

| | | | |
|---|---------------------|--------|----------------------|
|  | REINFORCED CONCRETE | T.O.F. | TOP OF FOUNDATION |
|  | LEAN CONCRETE | B.O.F. | BOTTOM OF FOUNDATION |
|  | GRAVEL | C.J. | CONSTRUCTION JOINT |
|  | SUB GRADE | R.G.L. | ROUGH GRADING LEVEL |
| | | T.O.G. | TOP OF GROUT |

| REFERENCE DRAWING | DRG. No. |
|-----------------------------------|------------------------------|
| UNIT PLOT PLAN DRAWING | BK-GCS-PEDCO-120-PI-PY-0001 |
| STANDARD DRAWING FOR ANCHOR BOLTS | BK-GNRL-PEDCO-000-ST-DW-0002 |
| SPECIFICATION FOR CONCRETE WORK | BK-GNRL-PEDCO-000-ST-SP-0001 |
| SPECIFICATION FOR GROUTING | BK-GNRL-PEDCO-000-ST-SP-0004 |

KEY PLAN

