

| PANELBOARD: A | | | | | | | | | | | |
|-------------------------------|------------|-----------|-----------------|----|----------|----------|----|------------------|-----------|------------|----------|
| 480/ VOLTS, 1 PHASE, 3 WIRE | | | | | | | | | | | |
| 30 AMP MAIN BKR, SURFACE MTD. | | | | | | | | | | | |
| 22000 AIC LABELED | | | | | | | | | | | |
| CIRC NO. | LOAD V. A. | LOAD TYPE | DESCRIPTION | P. | AMP SIZE | AMP SIZE | P. | LOAD DESCRIPTION | LOAD TYPE | LOAD V. A. | CIRC NO. |
| 1 | 2700 | LF | STREET LIGHTING | 2 | 20 | A | 2 | STREET LIGHTING | LF | 3150 | 2 |
| 3 | | | | | | B | | | | | 4 |
| 5 | | SW | SPARE | 2 | 20 | A | 2 | SPARE | SW | | 6 |
| 7 | | | | | | B | | | | | 8 |
| 9 | | | SPACE | | | A | | | | | 10 |
| 11 | | | SPACE | | | B | | | | | 12 |

① CIRCUITS SHALL BE ROUTED VIA MERCURY CONTACTOR AND CONTROLLED BY PHOTOCELL.

| PANELBOARD: B | | | | | | | | | | | |
|--------------------------------|------------|-----------|-----------------|----|----------|----------|----|------------------|-----------|------------|----------|
| 480/ VOLTS, 1 PHASE, 3 WIRE | | | | | | | | | | | |
| 100 AMP MAIN BKR, SURFACE MTD. | | | | | | | | | | | |
| 22000 AIC LABELED | | | | | | | | | | | |
| CIRC NO. | LOAD V. A. | LOAD TYPE | DESCRIPTION | P. | AMP SIZE | AMP SIZE | P. | LOAD DESCRIPTION | LOAD TYPE | LOAD V. A. | CIRC NO. |
| 1 | 3150 | LF | STREET LIGHTING | 2 | 20 | A | 2 | STREET LIGHTING | LF | 3150 | 2 |
| 3 | | | | | | B | | | | | 4 |
| 5 | | SW | SPARE | 2 | 20 | A | 2 | SPARE | SW | | 6 |
| 7 | | | | | | B | | | | | 8 |
| 9 | | | SPACE | | | A | | | | | 10 |
| 11 | | | SPACE | | | B | | | | | 12 |

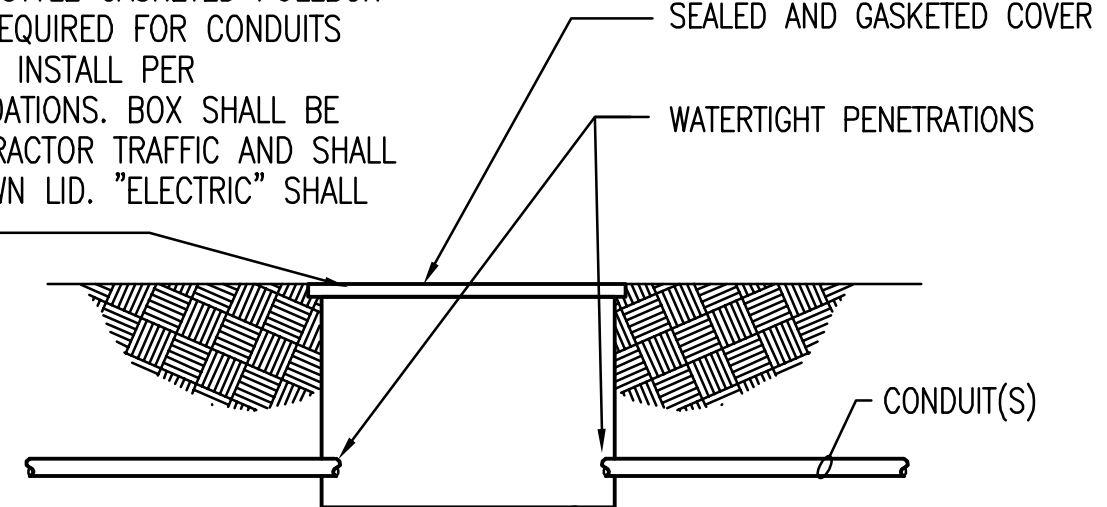
① CIRCUITS SHALL BE ROUTED VIA MERCURY CONTACTOR AND CONTROLLED BY PHOTOCELL.

| PANELBOARD: C | | | | | | | | | | | |
|--------------------------------|------------|-----------|-----------------|----|----------|----------|----|------------------|-----------|------------|----------|
| 480/ VOLTS, 1 PHASE, 3 WIRE | | | | | | | | | | | |
| 100 AMP MAIN BKR, SURFACE MTD. | | | | | | | | | | | |
| 22000 AIC LABELED | | | | | | | | | | | |
| CIRC NO. | LOAD V. A. | LOAD TYPE | DESCRIPTION | P. | AMP SIZE | AMP SIZE | P. | LOAD DESCRIPTION | LOAD TYPE | LOAD V. A. | CIRC NO. |
| 1 | 1350 | LF | STREET LIGHTING | 2 | 20 | A | 2 | SPACE | | | 2 |
| 3 | | | | | | B | | | | | 4 |
| 5 | 1350 | LF | STREET LIGHTING | 2 | 20 | A | 2 | SPACE | | | 6 |
| 7 | | | | | | B | | | | | 8 |
| 9 | | | SPACE | | | A | | | | | 10 |
| 11 | | | SPACE | | | B | | | | | 12 |

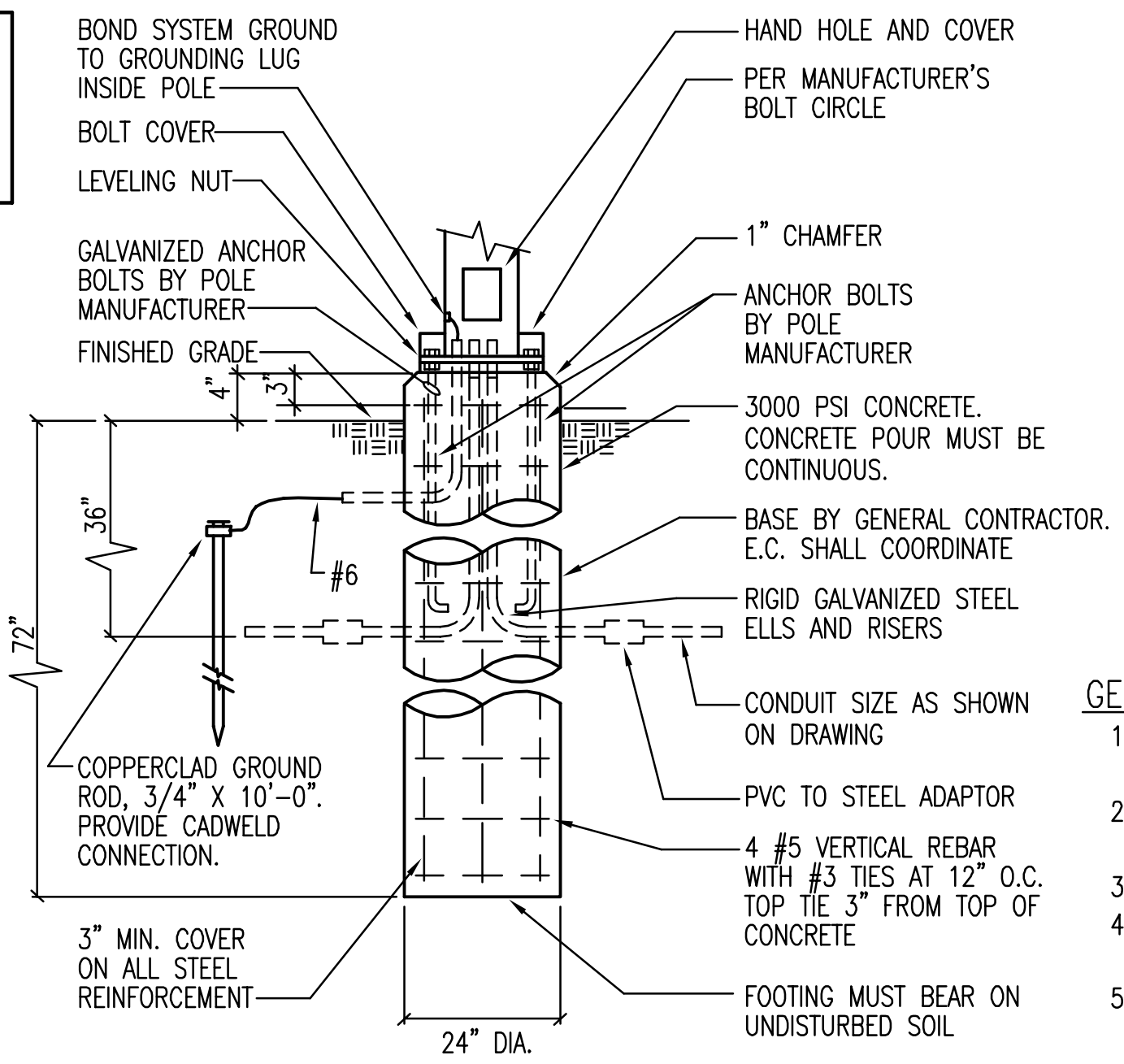
① CIRCUITS SHALL BE ROUTED VIA MERCURY CONTACTOR AND CONTROLLED BY PHOTOCELL.

NOTE:
FIXTURE LAYOUT IS BASED ON THE PHOTOMETRIC CHARACTERISTIC OF THE GARDCO GULLWING 400 WATT METAL HALIDE ON A 25' POLE. OBTAIN POLE ANCHOR BOLTS FROM DEVELOPER.

PROVIDE DEEP QUAZITE "PC" STYLE GASKETED PULLBOX WITH SOLID BASE. SIZE AS REQUIRED FOR CONDUITS AND CONDUCTORS INSTALLED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. BOX SHALL BE RATED FOR RIDING MOWER/TRACTOR TRAFFIC AND SHALL BE PROVIDED WITH BOLT DOWN LID. "ELECTRIC" SHALL BE MOLDED INTO LID.



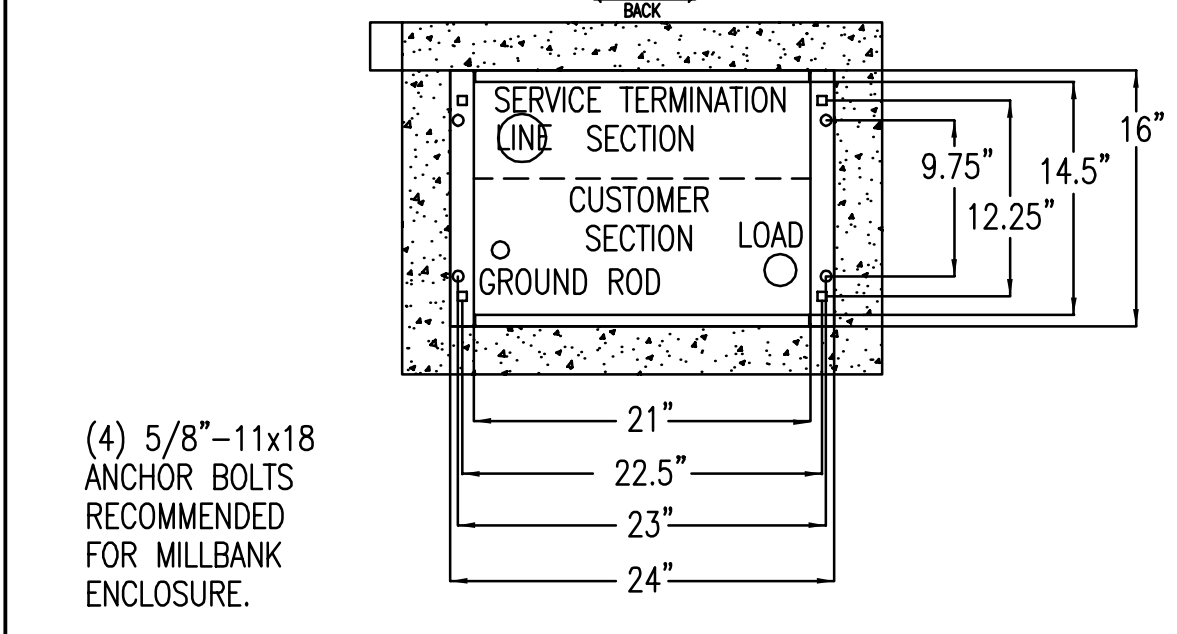
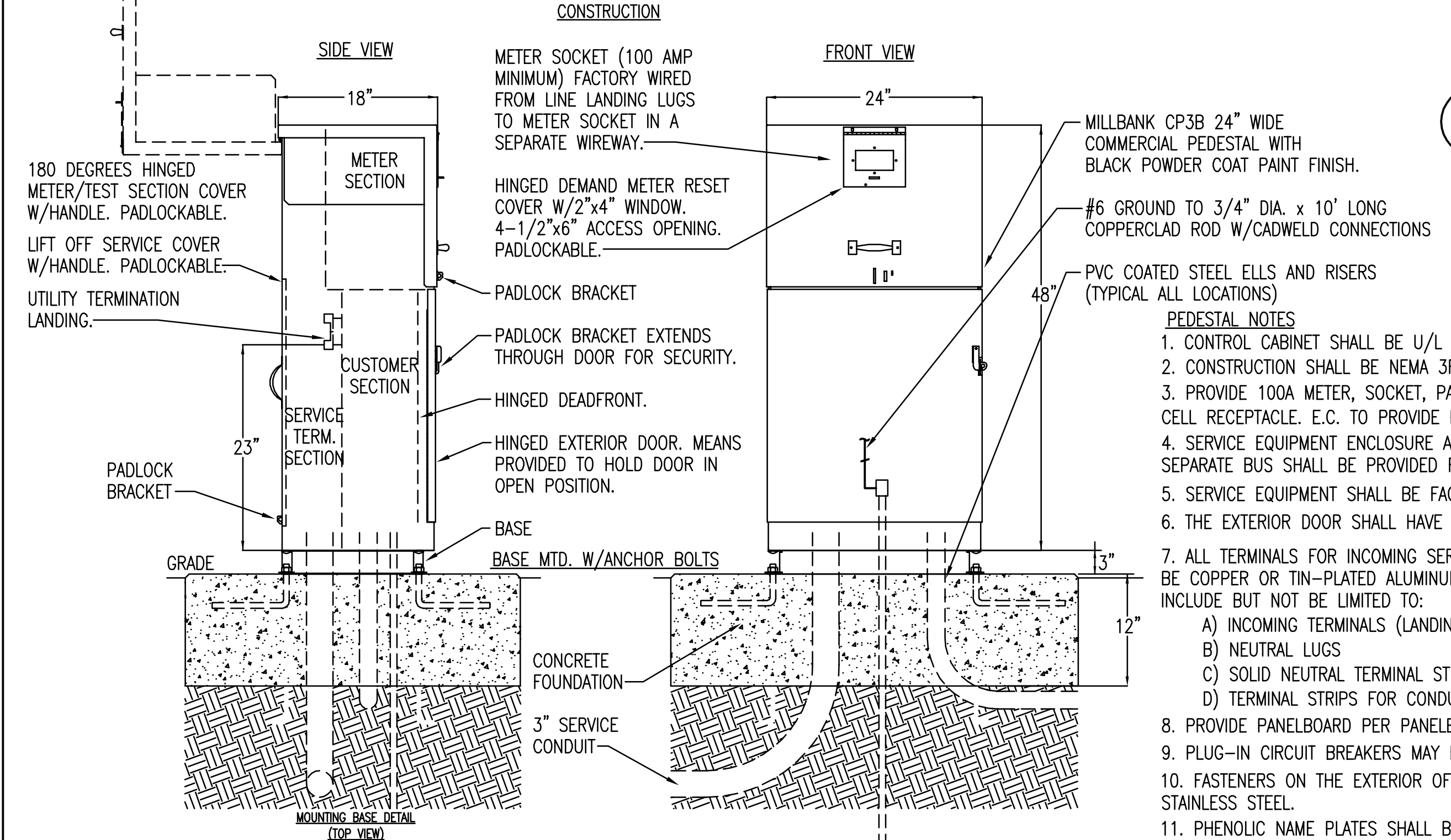
3 PULLBOX DETAIL
NO SCALE



2 POLE BASE DETAIL FOR TYPES 'S2' AND 'S4'
N.T.S.

| SYMBOL LIST | | |
|-------------|---|--------------|
| SYMBOL | DESCRIPTION | MOUNTING |
| S4 | LIGHT FIXTURE & FIXTURE LETTER | POLE |
| WP | WEATHERPROOF | |
| [Box] | PULL BOX | |
| [Hatched] | ELECTRICAL DISTRIBUTION EQUIPMENT | |
| [Line] | CONDUIT RUN 2 CIRCUITS, 3/4" & 1" GRD. - 3/4" | EARTH/FLOOR |
| [Line] | CONDUIT RUN TWO (2) CIRCUITS | CEILING/WALL |
| [Line] | PHASE CONDUCTORS (#12 U.O.N.) | |
| [Line] | NEUTRAL CONDUCTOR (#12 U.O.N.) | |
| [Line] | SWITCH LEGS (#12 U.O.N.) | |
| [Line] | GROUND CONDUCTOR (#12 U.O.N.) | |

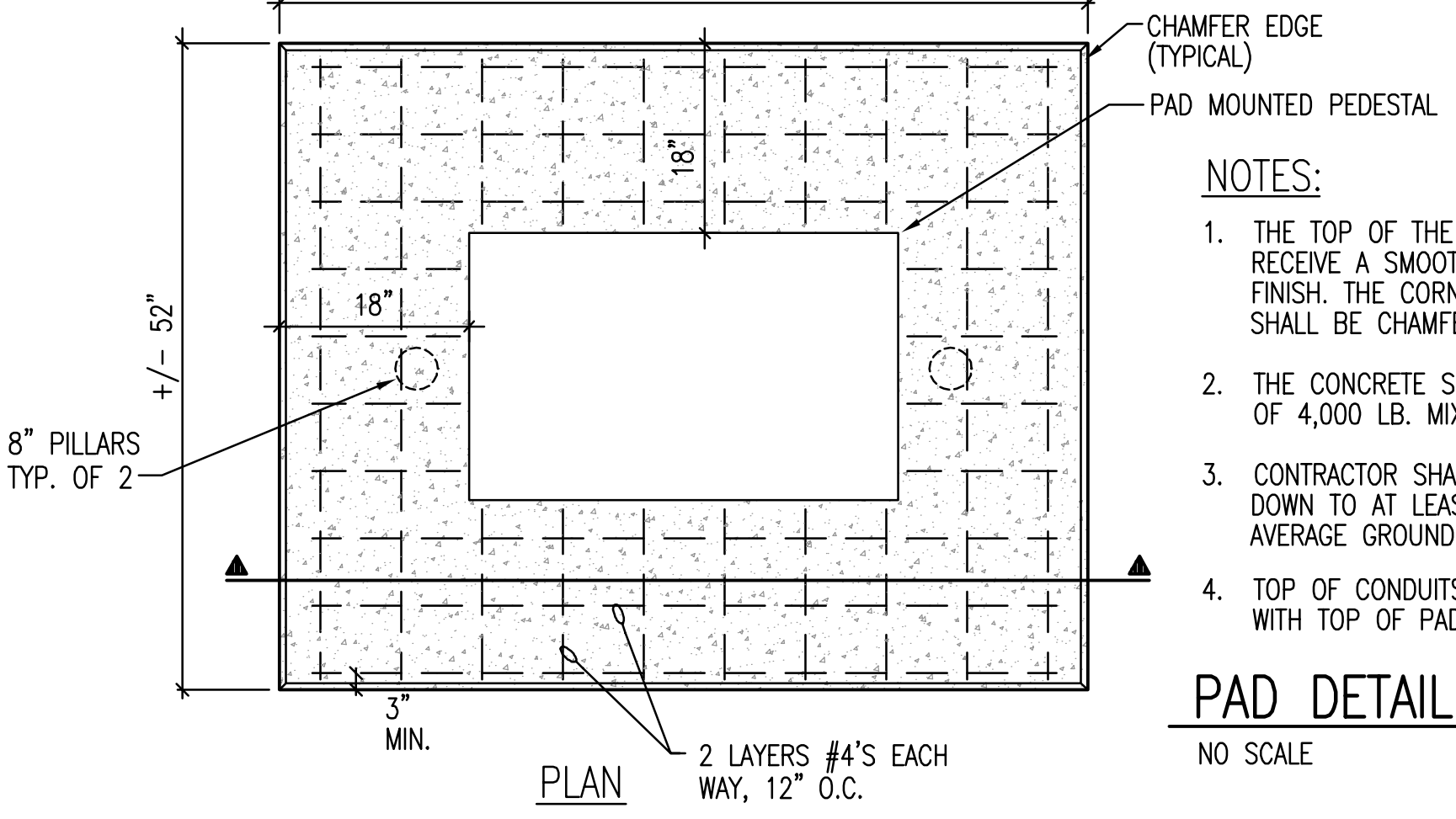
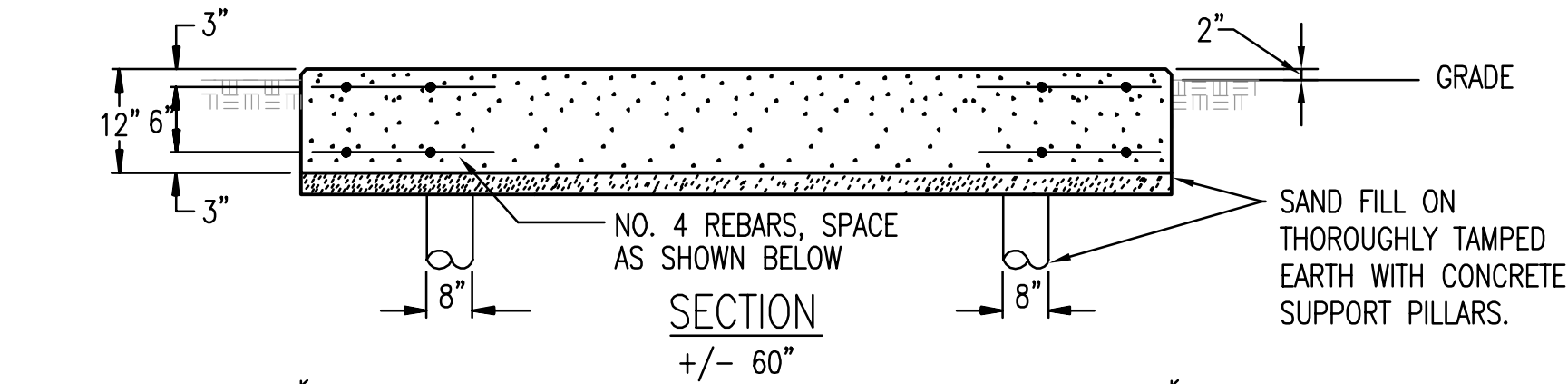
- GENERAL NOTES**
- E.C. SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS AND THE REQUIREMENTS CALLED OUT ON THE PLANS.
 - ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL ELECT. CODES OR REGULATIONS OF THE UTILITY COMPANY.
 - REFER TO SPECIFICATIONS FOR DATA NOT SHOWN ON DRAWINGS.
 - E.C. SHALL PAY FOR ALL FEES AND PERMITS FOR ELECTRICAL WORK ON THIS PROJECT.
 - E.C. IS RESPONSIBLE FOR DAMAGE TO CITY PROPERTY OR THE WORK BY OTHERS THAT MAY BE CAUSED BY THE E.C.'S WORK OR ACTIVITY IN THE AREA.
 - ALL ELECTRICAL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. UNSIGHTLY INSTALLATION WORK SHALL BE REMOVED AND REWORKED AT THE DIRECTION OF THE FIELD ENGINEER OR THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
 - THE G.C. SHALL BE RESPONSIBLE FOR:
 - PAYING ALL UTILITY BILLS FOR OPERATION OF THE ELECTRICAL SYSTEM THROUGH FINAL ACCEPTANCE. ALL SLEEVES, RUBBLE EXCAVATION AND REMOVAL, CONCRETE WORK, REINFORCING, STEEL SUPPOTS AND BRACKETS, SEAL AND GROUT ALL OPENINGS AFTER E.C. HAS COMPLETED ELECTRICAL WORK OR PORTIONS THEREOF, AREA CLEAN UP OF OWN WORK, PAINTING OF SURFACES REQUIRED BY CITY SPECS. OR UTILITY CO., AND ALL WORK REQUIRED FOR THE E.C. THAT IS NOT ELECTRICAL RELATED.
 - E.C. SHALL FURNISH AND INSTALL A SURGE ARRESTER: SQUARE 'D' #SDSA1175 OR APPROVED EQUAL AND INSTALL AT EACH SERVICE ENTRANCE.
 - E.C. SHALL PROVIDE, FURNISH AND INSTALL ALL PARTS, EQUIPMENT, SUPPLIES AND LABOR TO CONSTRUCT AND INSTALL A COMPLETE LIGHTING SYSTEM.
 - E.C. SHALL VERIFY ALL EQUIPMENT SPECIFIED ON THE LIGHTING PLAN AND COORDINATE MANUFACTURER'S CHANGES WITH PLAN INFORMATION AFTER NOTICE TO PROCEED IS GIVEN. THESE CHANGES SHALL NOT ACCRUE ADDITIONAL COST TO THE OWNER.
 - E.C. SHALL RECORD SYSTEM LOAD PER PHASE OF DISTRIBUTION PANEL AND SUBMIT FINAL READINGS TO OWNER WITH PRODUCT INFORMATION.
 - E.C. SHALL TEST COMPLETE SYSTEM TO INSURE CIRCUITS ARE FREE FROM SHORT CIRCUITS AND TO MAKE ALL NECESSARY ADJUSTMENTS TO ELECTRICAL EQUIPMENT. INSTALLED FIXTURES AND POLES SHALL BE CLEAN, FREE OF SCRATCHES AND MARKS.
 - E.C. SHALL DELIVER TO THE OWNER BEFORE FINAL ACCEPTANCE IN TRIPLICATE: SHOP DRAWINGS, CATALOGUE DATA, PRODUCT INFORMATION, OPERATION AND MAINTENANCE INSTRUCTIONS, AND PARTS LIST. DELIVER TWO RED LINE 'AS BUILT' BLUEPRINTS OF THE LIGHTING PLAN, ADDENDA AND CHANGE ORDERS THAT PERTAIN TO THIS WORK.
 - E.C. SHALL FULLY INSTRUCT THE OWNER OR IT'S REPRESENTATIVE AS TO THE PROPER OPERATION, CARE, MAINTENANCE AND CHARACTERISTICS OF THE LIGHTING SYSTEM AND IT'S EQUIPMENT.
 - ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS.
 - REFER TO SHEET 43 FOR ELECTRICAL SPECIFICATIONS.



○ PEDESTAL MOUNTING HOLES
□ ANCHOR BOLT MOUNTING HOLES

NOTE:
1. UTILITY METER SHALL BE LOCATED PER WESTAR REQUIREMENTS. USE PULL BOX IF LOCATION PANEL OVER 300' FROM FIRST POLE. SEE DETAIL 3 ON THIS SHEET. VERIFY ALL SERVICE REQUIREMENTS WITH WESTAR.
2. THIS DETAIL APPLIES TO 3 LOCATIONS. SEE SITE PLANS FOR APPROXIMATE LOCATIONS.

1 TYPICAL ELECTRICAL SERVICE PEDESTAL DETAIL
NO SCALE VOLTEAGE: 480V, 1Ø, 3-WIRE



- NOTES:**
- THE TOP OF THE PAD SHALL RECEIVE A SMOOTH TROWEL FINISH. THE CORNERS AND EDGES SHALL BE CHAMFERED.
 - THE CONCRETE SHALL BE A MINIMUM OF 4,000 LB. MIX.
 - CONTRACTOR SHALL EXTEND FORMS DOWN TO AT LEAST 3" BELOW AVERAGE GROUND LINE.
 - TOP OF CONDUITS SHALL BE FLUSH WITH TOP OF PAD.
 - THE CONDUIT OPENING SHALL BE FREE AND CLEAR OF CONCRETE.
 - CONCRETE FILLED PILLARS ARE FORMED BY AUGERING AN 8" DIAMETER HOLE TO A DEPTH OF UNDISTURBED EARTH (MIN. 36"). A SEPARATOR, SUCH AS TAR PAPER, SHOULD BE PLACED BETWEEN THE PILLAR AND THE PAD SO THE PAD CAN BE LEVELLED AT A LATER TIME IF NECESSARY.

PAD DETAIL
NO SCALE

| | | | |
|---|----------|---------|----------------|
| No. | Revision | By | Date |
| OAK CREEK - PHASE 1 | | | |
| ELECTRICAL SCHEDULES AND DETAILS | | | |
| JAMES L. ARMOUR, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 472-84209 | | | |
| Professional Engineering Consultants, P.A. 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003 | | | |
| Designed by | DCG | Job No. | 20-04688-000 |
| Drawn by | MDB | Date | August 2004 |
| | | | Sheet 40 of 86 |