

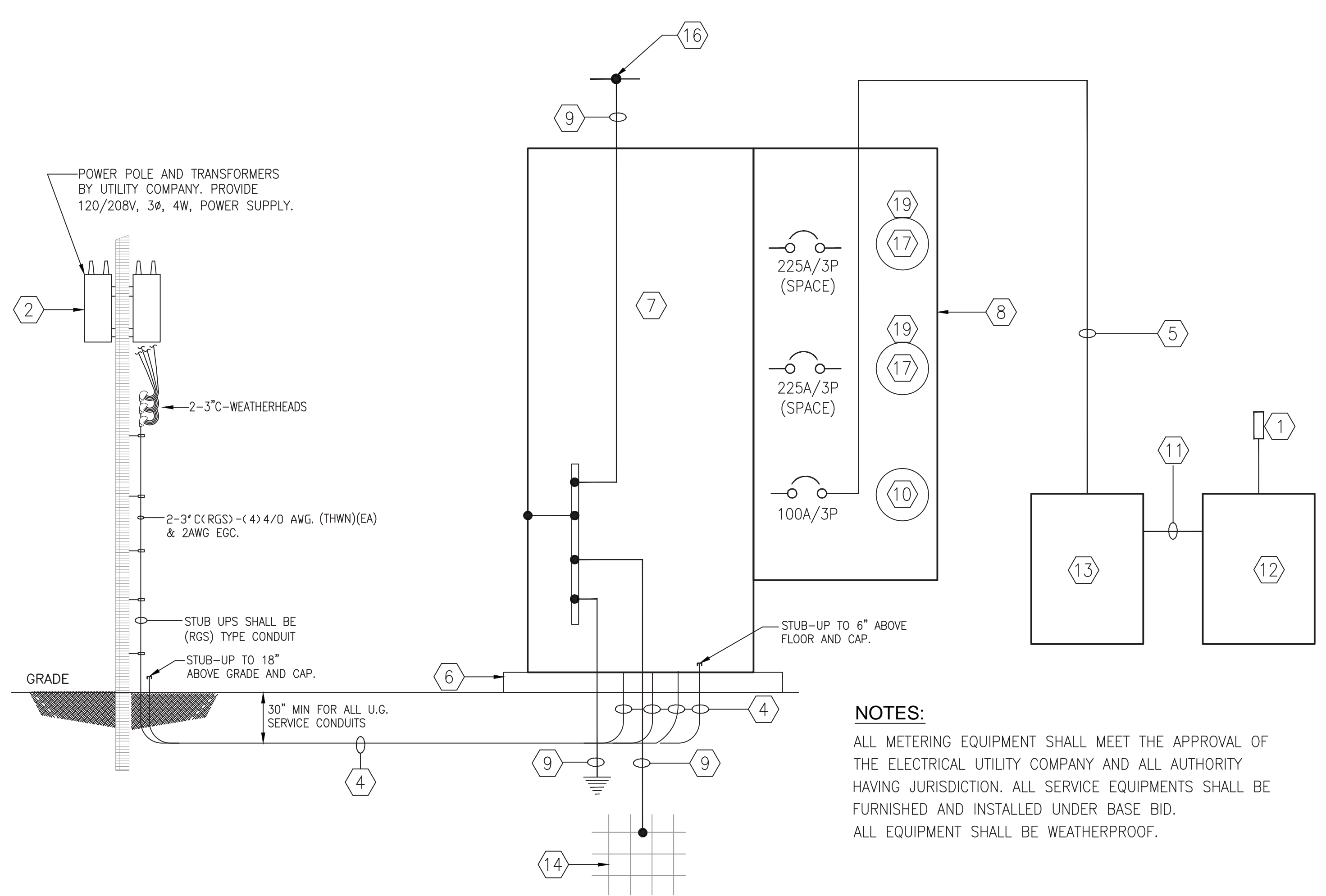
1 ELECTRICAL - FLOOR PLAN
SCALE: 1/8" = 1'-0"

| FIXT TYPE | MANUFACTURER AND CATALOG NUMBER | MOUNTING | LAMPS | | VOLTS | REMARKS |
|-----------|--|----------|-------|------|-------|---|
| | | | NO. | TYPE | | |
| A | GOTHAM ARCHITECTURAL DOWNLIGHT EVO 40/15 4AR WD LD EZ10 TRW | RECESSED | 1 | LED | 120 | 4" LED LENSED DOWNLIGHT, SELF-FLANGED, MATTE-DIFFUSE FINISHING TRIM, AIR TIGHT, LM-80 QUALIFIED, WET LOCATIONS |
| AE | GOTHAM ARCHITECTURAL DOWNLIGHT EVO 40/15 4AR WD LD EZ10 TRW EL | RECESSED | 1 | LED | 120 | SAME AS "A" ABOVE EXCEPT WITH EMERGENCY BATTERY PACK WITH INTEGRAL TEST SWITCH FOR 100% OF RATED LUMENS. RUN TIME: 90+ MINUTES. 120V INPUT. |
| B | LITHONIA LIGHTING ARCHITECTURAL WALL PACK DSXW1 LED 20C 1000 40K T4M MVOLT PIR | SURFACE | 1 | LED | 120 | WALL MOUNTED FIXTURE, WITH TWO-PIECE DIE-CAST ALUMINUM HOUSING, FINISH TO BE SELECTED BY ARCHITECT. MTD 12'-0" A.F.F. |
| BE | LITHONIA LIGHTING ARCHITECTURAL WALL PACK DSXW1 LED 20C 1000 40K T4M ELCW PIR | SURFACE | 1 | LED | 120 | SAME AS "B" ABOVE EXCEPT WITH EMERGENCY BATTERY PACK FOR 100% OF RATED LUMENS. RUN TIME: 90+ MINUTES. 120V INPUT. |

| LOAD DESCRIPTION | | CONDUIT & WIRE | CB | KVA | CT | CT | CT | CT | CONDUIT & WIRE | LOAD DESCRIPTION | CODE |
|------------------|--------------------------------|---------------------|----|-----|----|----|----|-----|----------------|---------------------------------------|------|
| 0 | TYPE A CANOPIES LED LUMINAIRES | 3/4" C-2#10 & 1#10G | 20 | 0.5 | 1 | A | 2 | 0.0 | 20 | SPARE | 0 |
| 0 | TYPE B WALL SCONCE | 3/4" C-2#10 & 1#10G | 20 | 0.7 | 3 | B | 4 | 0.9 | 30 | SPARE | 3 |
| 1 | TELEPHONE SERVICE RECEPTACLES | 3/4" C-2#12 & 1#12G | 20 | 0.5 | 5 | C | 6 | 0.9 | 3 | SUBMERSIBLE PUMP SEP-1 | 3 |
| 2 | IRRIGATION CONTROLLER | 3/4" C-2#12 & 1#12G | 20 | 0.5 | 7 | A | 8 | 0.9 | 3 | MONITORING PL | 2 |
| 0 | HOLIDAY LIGHTING | 3/4" C-2#10 & 1#10G | 20 | 1.5 | 9 | B | 10 | 0.5 | 20 | REFER TO DWG. E1.1 FOR CONDUIT & WIRE | 1 |
| 0 | HOLIDAY LIGHTING | 3/4" C-2#10 & 1#10G | 20 | 1.5 | 11 | C | 12 | 0.8 | 20 | SITE LIGHTING | 1 |
| 0 | HOLIDAY LIGHTING | 3/4" C-2#10 & 1#10G | 20 | 1.5 | 13 | A | 14 | 0.8 | 3 | REFER TO DWG. E1.1 FOR CONDUIT & WIRE | 1 |
| 0 | HOLIDAY LIGHTING | 3/4" C-2#10 & 1#10G | 20 | 1.5 | 15 | B | 16 | 0.8 | 3 | SITE NIGHT LIGHTING | 3 |
| 0 | HOLIDAY LIGHTING | 3/4" C-2#10 & 1#10G | 20 | 1.5 | 17 | C | 18 | 1.3 | 20 | REFER TO DWG. E1.1 FOR CONDUIT & WIRE | 2 |
| 0 | HOLIDAY LIGHTING | 3/4" C-2#10 & 1#10G | 20 | 1.5 | 19 | A | 20 | 1.3 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 21 | B | 22 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 23 | C | 24 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 25 | A | 26 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 27 | B | 28 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 29 | C | 30 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 31 | A | 32 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 33 | B | 34 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 35 | C | 36 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 37 | A | 38 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 39 | B | 40 | 0.0 | 20 | SPARE | 0 |
| | SPARE | | 20 | 0.0 | 41 | C | 42 | 0.0 | 20 | SPARE | 0 |

| LOAD TYPE | CODE | CONNECTED | DIVERSITY | DESIGN | BY PHASES | BY TOTAL |
|--------------------|------|-----------|-----------|--------|-----------|----------|
| LIGHTING | 0 | 15.2 | 125% | 19.0 | 11.2 | 8.2 |
| RECEPTACLES | 1 | 0.5 | (+) | 0.5 | 0.5 | 0.5 |
| EQUIPMENT | 2 | 1.0 | 100% | 1.0 | 1.0 | 1.0 |
| MOTORS | 3 | 2.7 | 100% | 2.7 | 2.7 | 2.7 |
| ELECTRIC HEAT | 4 | 0.0 | 100% | 0.0 | 0.0 | 0.0 |
| LARGEST MTR | 5 | 0.0 | 25% | 0.0 | 0.0 | 0.0 |
| KITCHEN EQUIP | 6 | 0.0 | 80% | 0.0 | 0.0 | 0.0 |
| TOTAL LOADS IN KVA | | 19.4 | | 23.2 | | |
| TOTAL AMPS | | 53.9 | | 64.4 | | |

NOTES:
 ① INDICATES THROUGH CONTACTOR "L-1", "ON" BY PHOTOCELL, "OFF" BY TIME CLOCK.
 ② INDICATES THROUGH CONTACTOR "L-2", "ON" BY PHOTOCELL, "OFF" BY PHOTOCELL.
 ③ INDICATES THROUGH CONTACTOR "L-3", "ON" BY PHOTOCELL, "OFF" BY PHOTOCELL.



2 ELECTRICAL - RISER DIAGRAM
SCALE: NOT TO SCALE

KEYED ELECTRICAL NOTES.- (THIS SHEET)

- ① PHOTOCELL ABOVE ROOF FACING NORTH
- ② GREENVILLE ELECTRIC UTILITY SERVICE POLE MOUNTED TRANSFORMERS
- ③ NOT USED
- ④ 2-3" CONDUITS, (4) 4/0 AWG. (THWN), & (1) 2AWG EGC.
- ⑤ 2"C, -(4)-1 AWG (THWN) & (1)-6AWG EGC.
- ⑥ 4" CONCRETE HOUSEKEEPING PAD
- ⑦ 400AMP MLO SQUARE "D" "EZM3400TBUCU" NEMA 3R ENCLOSURE. PROVIDE WITH HORIZONTAL CROSS BUS ON BOTH SIDES OF UNIT FOR FUTURE EXPANSION.
- ⑧ SQUARE "D" "EZML333225(CU)" NEMA 3R METER/MAIN CB METER PACK.
- ⑨ 1"C(PVC)-1#3/0G
- ⑩ HOUSE METER PER LOCAL UTILITY REQUIREMENTS.
- ⑪ 3-2" CONDUITS OR AS REQUIRED.
- ⑫ LIGHTING CONTROL CABINET, NEMA 3R.
- ⑬ HOUSE PANEL "L"
- ⑭ BUILDING SLAB STEEL. MINIMUM 20' OF REBAR
- ⑮ 10' x 3/4" COPPERCLAD GROUND ROD.
- ⑯ BUILDING STEEL AND METAL PIPING SYSTEMS.
- ⑰ 225 A METER SOCKETS
- ⑱ WEATHERPROOF GFI RECEPTACLE WITH METAL IN-USE COVER MOUNTED ON PARAPET WALL FOR HOLIDAY LIGHTING. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
- ⑲ PROVIDE ALL WEATHERPROOF BLANKS.
- ⑳ RETAIL TELEPHONE SERVICE CABINET. REFER TO DETAIL 4 SHEET "E3.1"
- ㉑ METER PACK, REFER TO DETAIL 2 THIS SHEET FOR BUILDING SERVICE
- ㉒ 3/4"C TO SUBMERSIBLE GRINDER PUMP.

| LOAD ANALYSIS-120/208V, 3ph, 4W | |
|---|-------------------|
| LOAD DESCRIPTION | AMPS |
| RETAIL / HOUSE PANEL "L" | |
| RETAIL STORES → 6000SqFt @ 15W/SqFt | 90.0 KVA |
| HOUSE PANEL "L" | 26.3 KVA |
| TOTAL CONNECTED LOAD | 116.3 |
| AVAILABLE AMPACITY IN PROVIDED SERVICE | 400.0 AMPS |

ELECTRICAL GENERAL NOTES.

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES
- 2. EACH CONDUIT SHALL BE LIMITED TO (3) CIRCUITS MAXIMUM
- 3. NO MORE THAN THREE SINGLE PHASE CIRCUITS AND NO MORE THAN SIX CURRENT CARRYING CONDUCTORS SHALL BE INSTALLED IN A SINGLE RACEWAY. WHEN FOUR, FIVE OR SIX CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY, THEIR CURRENT CARRYING AMPACITIES SHALL BE DERATED AS REQUIRED BY THE NEC FOR NON-DIVERSIFIED LOADS. THE INSTALLED WIRE SIZE SHALL HAVE A NOMINAL AMPACITY RATING OF 125% OF THAT REQUIRED OR SPECIFIED WHEN FOUR OR MORE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY. NEUTRAL CONDUCTORS SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR IN ALL NON-LINEAR LOAD CIRCUITS AS REQUIRED BY THE NEC.
- 4. ALL LIGHTING, RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS CONDUITS SHALL CONTAIN A GROUND WIRE. SING THE CONDUIT SYSTEM AS THE ONLY GROUND PATH IS NOT ACCEPTABLE.
- 5. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH ALL LOCAL AND NATIONAL ELECTRICAL CODES.
- 6. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE TYPE NEMA 3R.
- 7. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR ALL ELECTRICAL REQUIREMENTS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION AS SOON AS POSSIBLE.
- 8. ALL CONDUITS FOR TENANTS SERVICES SHALL BE RUN ON EXTERIOR WALL HORIZONTALLY. ONLY CONDUIT TO BE RUN ON EXTERIOR WALL SHALL BE FROM SERVICE DISCONNECT VERTICALLY TO "LB" THROUGH WALL UP IN JOIST SPACE TO EACH TENANT.
- 9. ALL CONDUITS ASSOCIATED WITH PRIMARY ELECTRIC AND TELEPHONE SERVICE WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY COMPANIES INSTALLATION CRITERIA.
- 10. ALL UTILITY CONDUITS SHALL CONTAIN PULL STRINGS MEETING THE MATERIAL AND INSTALLATION REQUIREMENTS OF THE UTILITY COMPANY.
- 11. ALL ELECTRICAL WORK SHALL BE DONE IN COMPLIANCE WITH THE MOST CURRENT ADDITION OF THE NEC AND THE UTILITY COMPANY'S ELECTRIC UTILITY DESIGN CRITERIA MANUAL.
- 12. ALL CONDUIT ROUTED ABOVE GRADE AT EXTERIOR SHALL BE RIGID GALVANIZED STEEL CONDUIT.

REVISED TO LOWER SLAB ELEVATION

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PAD BUILDING AT THE CROSSROADS MALL GREENVILLE, TEXAS

GREENVILLE PROPERTIES LTD.
GREENVILLE, TEXAS

| | | | |
|-------------|----------|------|--|
| DATE | 2/6/15 | REV. | |
| PROJECT NO. | 08-14-05 | | |
| DRAWN BY | | | |

ELECTRICAL FLOOR PLAN AND SCHEDULES

E2.1

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