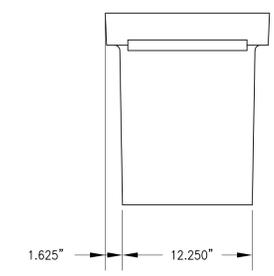
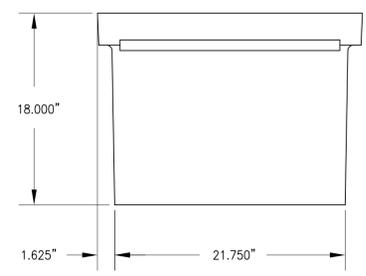
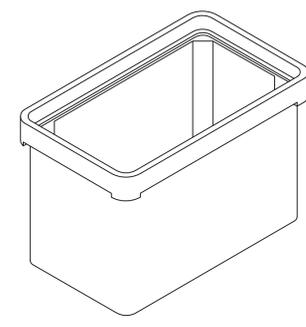
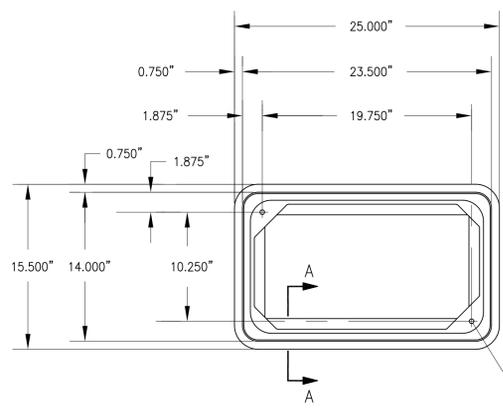
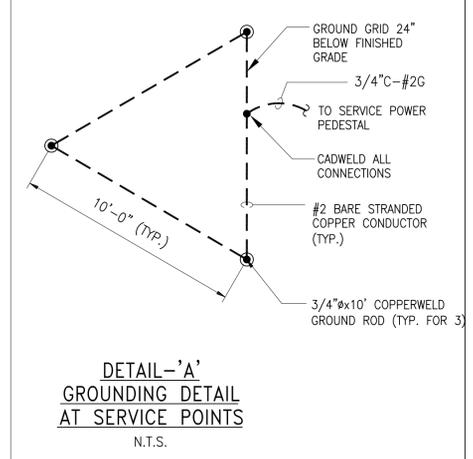
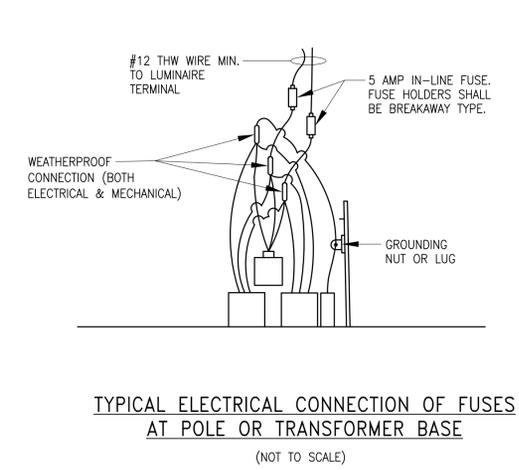
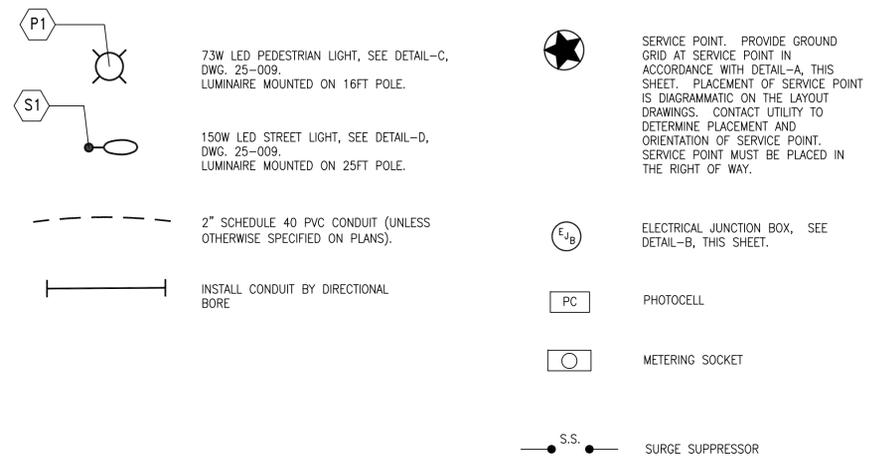


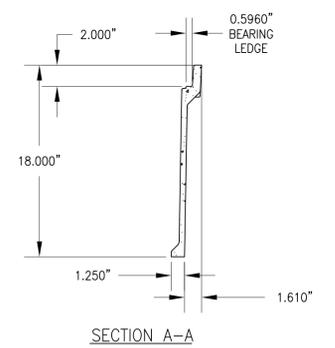
GENERAL NOTES

- ALL LAMPS SHALL BE LED UNLESS OTHERWISE NOTED.
- OPERATING VOLTAGE SHALL BE 240 VOLTS.
- ALL FUSES AND FUSEHOLDERS SHALL BE IN-LINE TYPE AND WATERPROOF. PROVIDE FUSES, FUSEHOLDERS AND MOLDED BREAKAWAY PLUG & CONNECTOR ASSEMBLY FOR POWER CABLE IN THE HANDHOLE OF EACH POLE. THE FUSEHOLDERS SHALL BE BREAKAWAY TYPE.
- CONDUIT ACCESSORIES, SUCH AS EXPANSION JOINTS, PULLBOXES, CONDULETS, ELBOWS, FLEXIBLE CONDUIT, ETC., SHALL BE INCLUDED IN THE PRICE BID FOR CONDUIT.
- THE CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONDUIT. THE COST OF THIS ITEM WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
- LIGHTING DESIGN CRITERIA:
 - LIGHT LOSS FACTOR = 0.8
 - FOR ROADWAYS:
 - MIN AVERAGE MAINTAINED ILLUMINATION FOR ROADWAYS = 0.9fc
 - UNIFORMITY RATIO (AVG./MIN.) = 4:1 MAXIMUM
 - FOR SIDEWALK:
 - MIN AVERAGE MAINTAINED ILLUMINATION FOR SIDEWALK = 1fc
 - UNIFORMITY RATIO (AVG./MIN.) = 4:1 MAXIMUM
- THE LIGHTING CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON THE LUMINAIRES.
- THE CONTRACTOR SHALL BE AWARE OF OVERHEAD POWER LINES AND LOCATE LIGHTING STANDARDS SUCH THAT THEY WILL HAVE TEN FEET MINIMUM CLEARANCE FROM DISTRIBUTION LINES OR 20 FEET MINIMUM CLEARANCE FROM TRANSMISSION LINES.
- UTILITY CONTACT AT GEORGIA POWER CO. IS MS. LARHONDA MABRY (770-550-2761) LMABRY@SOUTHERCO.COM.
- ALL CONDUIT AND ELECTRICAL JUNCTION BOX (EJB) PLACEMENTS ON THE LAYOUT DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL THEM WITHIN RIGHT OF WAY. EJB'S SHOULD NOT BE INSTALLED IN SIDEWALKS IF POSSIBLE.
- INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROJECT LIGHTING IS TO BE IN ACCORDANCE WITH GDOT SPECIFICATION SECTION 680 HIGHWAY LIGHTING AND ALL REFERENCED SECTIONS THEREIN.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES BEFORE INSTALLATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE CLIENT.
- NO CONDUIT IS TO BE RUN ON PRIVATE PROPERTY.
- ALL CONDUIT WHICH IS RUN UNDER A ROADWAY SHALL BE INSTALLED PRIOR TO ANY NEW PAVING. NO NEW PAVING SHALL BE CUT TO INSTALL ELECTRICAL LINES.
- ALL ELECTRICAL MATERIALS, SUCH AS CONDUIT, CABLES, WIRES AND JUNCTION BOXES, SHALL BE NEW, U.L. LISTED AND MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AND THE AMERICAN NATIONAL STANDARDS INSTITUTE.
- ALL CONDUITS MUST BE SEALED AFTER INSTALLATION OF WIRES AND SUCCESSFUL TESTING OF THE CIRCUITS. THE SEALING COMPOUND SHALL BE OZ/GEDNEY TYPE 'DUX' OR APPROVED EQUAL.
- ALL CABLES MUST BE CLEARLY LABELED AT EACH JUNCTION BOX AND TERMINATION POINT. THE WIRE MARKERS SHALL BE PVC HEAT SHRINKABLE TUBULAR TYPE AND SHOW THE CIRCUIT NUMBER.
- THE COST OF THE FOUNDATIONS FOR THE LIGHT POLES SHALL BE INCLUDED IN THE PAY ITEM FOR THE LIGHTING STANDARDS
- FOR ALL LIGHT POLES, A MINIMUM OF 1'-6" MUST BE MAINTAINED AT ALL TIMES FROM THE FACE OF THE CURB (OR EDGE OF PAVEMENT) TO THE OUTSIDE EDGE OF THE LIGHT POLE.
- EXPOSED CONDUIT SHALL BE RIGID STEEL UNLESS OTHERWISE NOTED.
- ALL UNDERGROUND CONDUITS SHALL BE PVC, SCHEDULE 40 UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ROUTE ALL CONDUIT RUNS BETWEEN EACH FIXTURE AND FROM THE LAST FIXTURE TO THE UTILITY COMPANY SERVICE LOCATION IN THE MOST DIRECT ROUTE POSSIBLE. CONTRACTOR SHALL INSTALL PULLBOXES AS NEEDED AND APPROVED BY GDOT/ENGINEER.
- ALL POLES SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH GDOT'S QUALIFIED PRODUCTS LIST (QPL) FOR APPROVED SUPPLIERS FOR PROJECTS RECEIVING FEDERAL FUNDING.
- ALL LUMINAIRES SUPPLIED FOR THIS PROJECT MUST MEET THE GDOT STANDARD SPECIFICATION SECTION 921-LUMINAIRES AND 924-LUMINAIRES, LED FOR PROJECTS RECEIVING FEDERAL FUNDING.
- RIGID CONDUIT, INSTALLED ON STRUCTURES, SHALL BE SUPPORTED AT LEAST EVERY 10 FEET AND WITHIN 3 FEET OF JUNCTION BOXES, LUMINAIRES, ETC.
- CONTRACTOR SHALL PROVIDE BANNER ARM FOR ALL PEDESTRIAN LIGHTS. CONTRACTOR SHALL FOLLOW DETAIL FOR ORIENTATION OF BANNER ARM, DWG. 25-009.
- FOR P9, P10, P11, P12, P14, P15, P16, S7, S8, S9, S10, S11, S13, S14, S15, S16 FOUNDATION OF LIGHT POLE SHALL BE INSTALLED ON SIDEWALK. FOUNDATION SHALL BE FLUSH WITH SIDEWALK. SEE DETAIL-F, DWG. 25-009.
- FOR S17 & S20, FOUNDATION OF LIGHT POLE SHALL BE INSTALLED ON SIDEWALK IN FRONT OF WALL. BACK OF LIGHT POLE FOUNDATION SHALL BE 1' FROM FACE OF WALL. SEE DETAIL-E, DWG. 25-009.

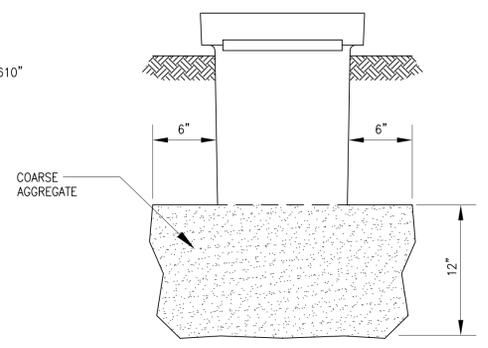
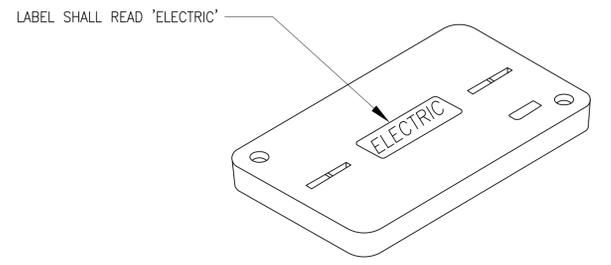
LEGEND



OPEN BOTTOM JUNCTION BOX
(NOT TO SCALE)
(PROVIDE 12" COARSE AGGREGATE AT THE BOTTOM OF THE BOX.)



- NOTES**
- JUNCTION BOXES AND COVERS MUST BE DESIGNED PER ASTM C-857-87 DESIGNATION A-16(HS20-44) AND ASTM C-497.
 - JUNCTION BOXES SHALL HAVE A WEATHER PROOF GASKET.



BASE OF BURIED OPEN BOTTOM BOX
(NOT TO SCALE)

DETAIL-B'

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REVISION DATES	

COBB COUNTY
DEPARTMENT OF TRANSPORTATION

OFFICE:
Lighting Legend, Notes and Details

CUMBERLAND BOULEVARD

DRAWING No.
25-001

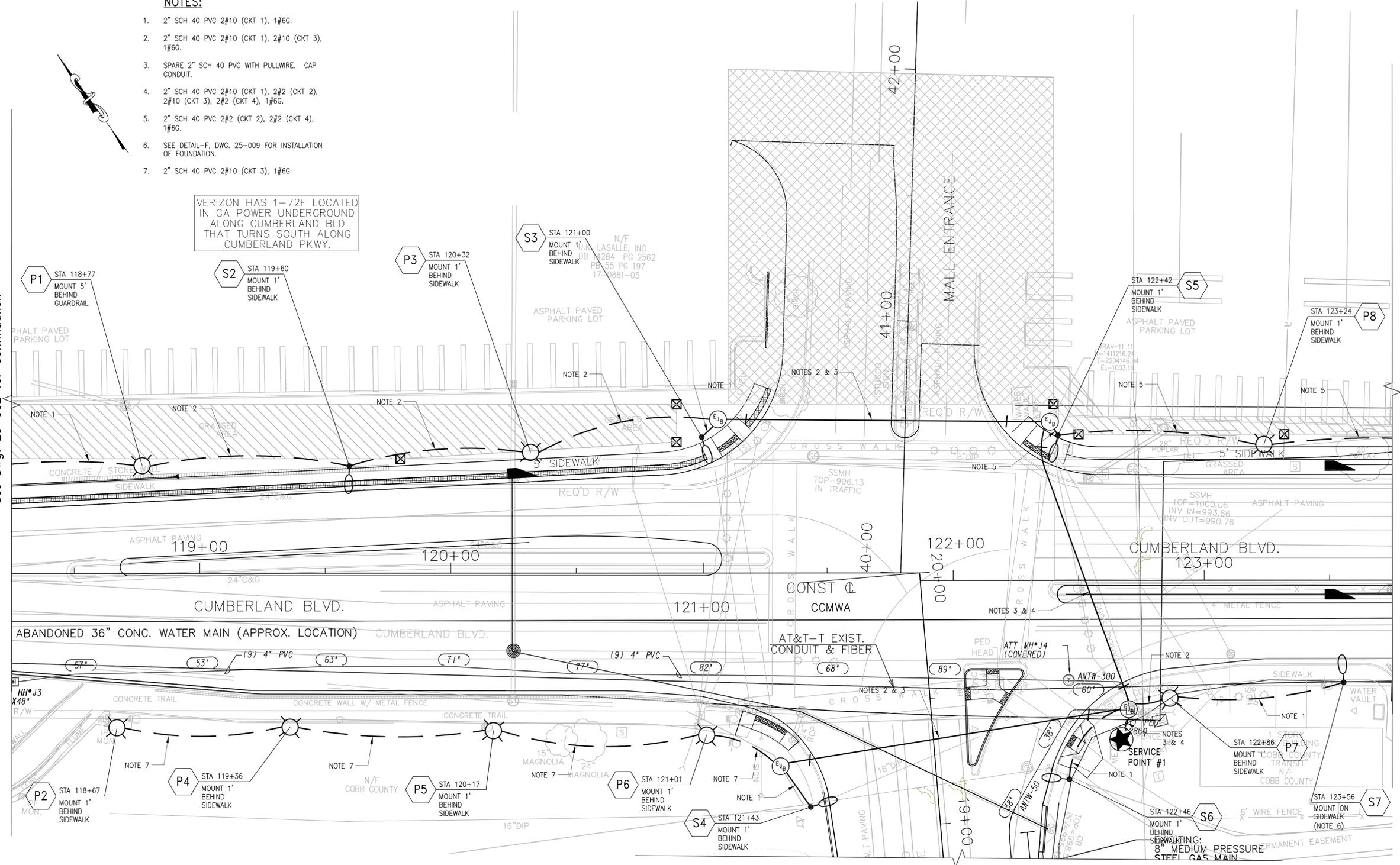
NOTES:

- 2" SCH 40 PVC 2#10 (CKT 1), 1#6G.
- 2" SCH 40 PVC 2#10 (CKT 1), 2#10 (CKT 3), 1#6G.
- SPARE 2" SCH 40 PVC WITH PULLWIRE. CAP CONDUIT.
- 2" SCH 40 PVC 2#10 (CKT 1), 2#2 (CKT 2), 2#10 (CKT 3), 2#2 (CKT 4), 1#6G.
- 2" SCH 40 PVC 2#2 (CKT 2), 2#2 (CKT 4), 1#6G.
- SEE DETAIL-F, DWG. 25-009 FOR INSTALLATION OF FOUNDATION.
- 2" SCH 40 PVC 2#10 (CKT 3), 1#6G.



VERIZON HAS 1-72F LOCATED IN GA POWER UNDERGROUND ALONG CUMBERLAND BLD THAT TURNS SOUTH ALONG CUMBERLAND PKWY.

See Dwg. 25-002 for Continuation



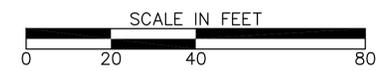
See Dwg. 25-004 for Continuation

See Dwg. 25-007a for Continuation

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ARCADIS
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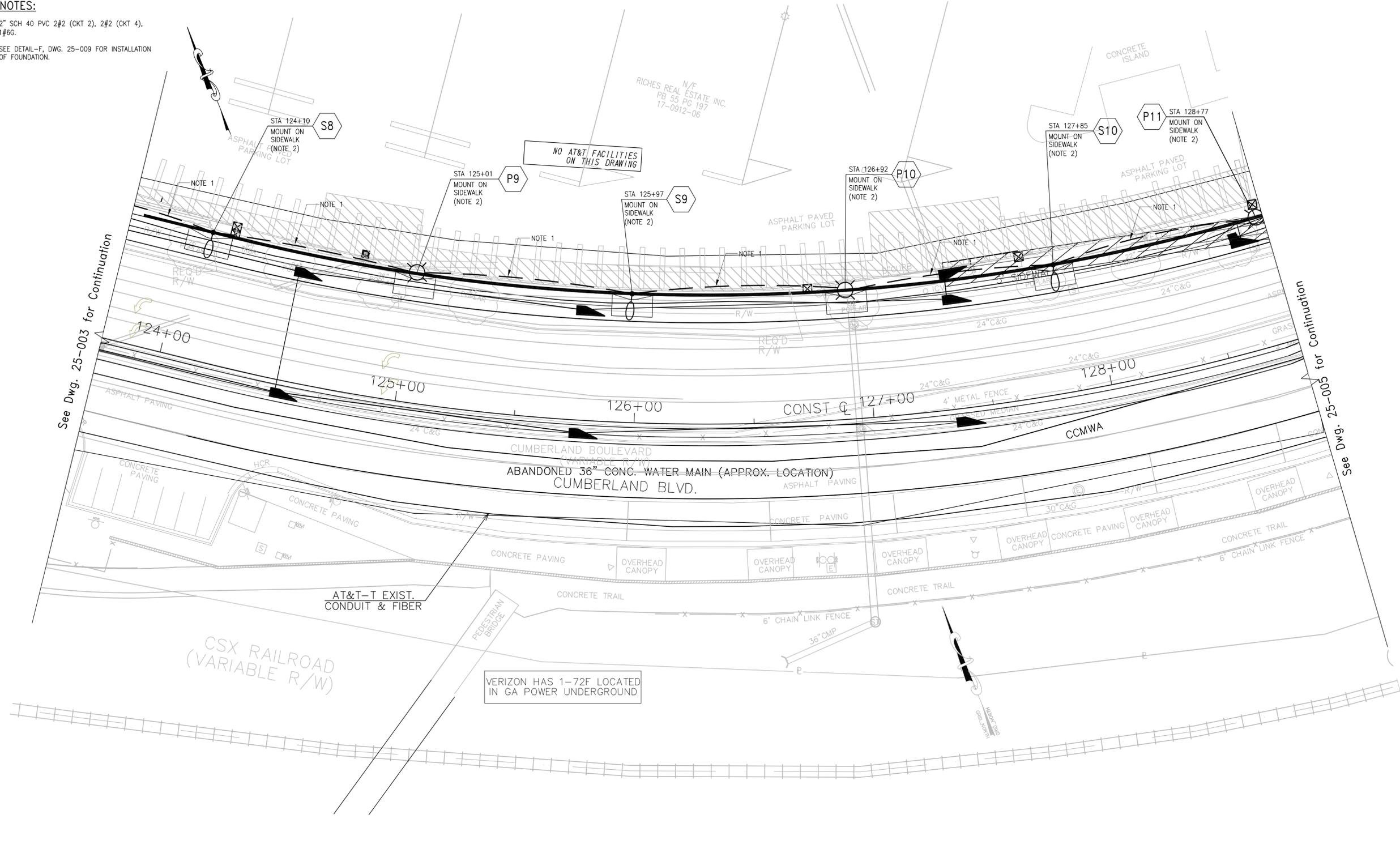
REVISION DATES

COBB COUNTY DEPARTMENT OF TRANSPORTATION
 OFFICE:
 Lighting Layout
 CUMBERLAND BOULEVARD

DRAWING No.
 25-003

NOTES:

- 2" SCH 40 PVC 2#2 (CKT 2), 2#2 (CKT 4), 1#6G.
- SEE DETAIL-F, DWG. 25-009 FOR INSTALLATION OF FOUNDATION.

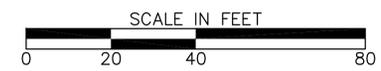


See Dwg. 25-003 for Continuation

See Dwg. 25-005 for Continuation

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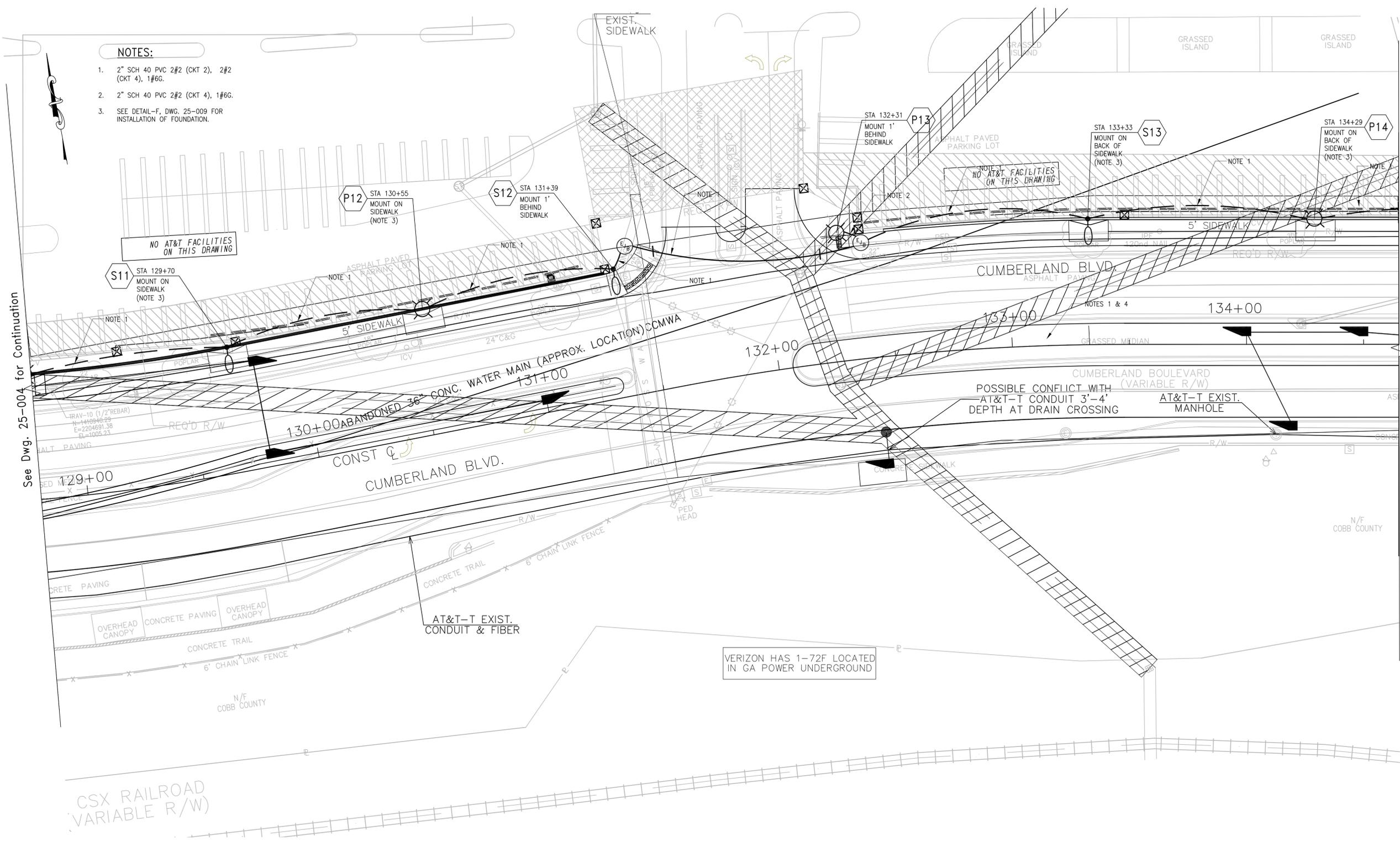


REVISION DATES	

COBB COUNTY
 DEPARTMENT OF TRANSPORTATION
 OFFICE:
 Lighting Layout
 CUMBERLAND BOULEVARD
 DRAWING No.
 25-004

- NOTES:**
- 2" SCH 40 PVC 2#2 (CKT 2), 2#2 (CKT 4), 1#66.
 - 2" SCH 40 PVC 2#2 (CKT 4), 1#66.
 - SEE DETAIL-F, DWG. 25-009 FOR INSTALLATION OF FOUNDATION.

See Dwg. 25-004 for Continuation

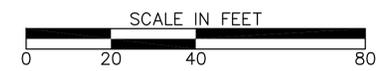


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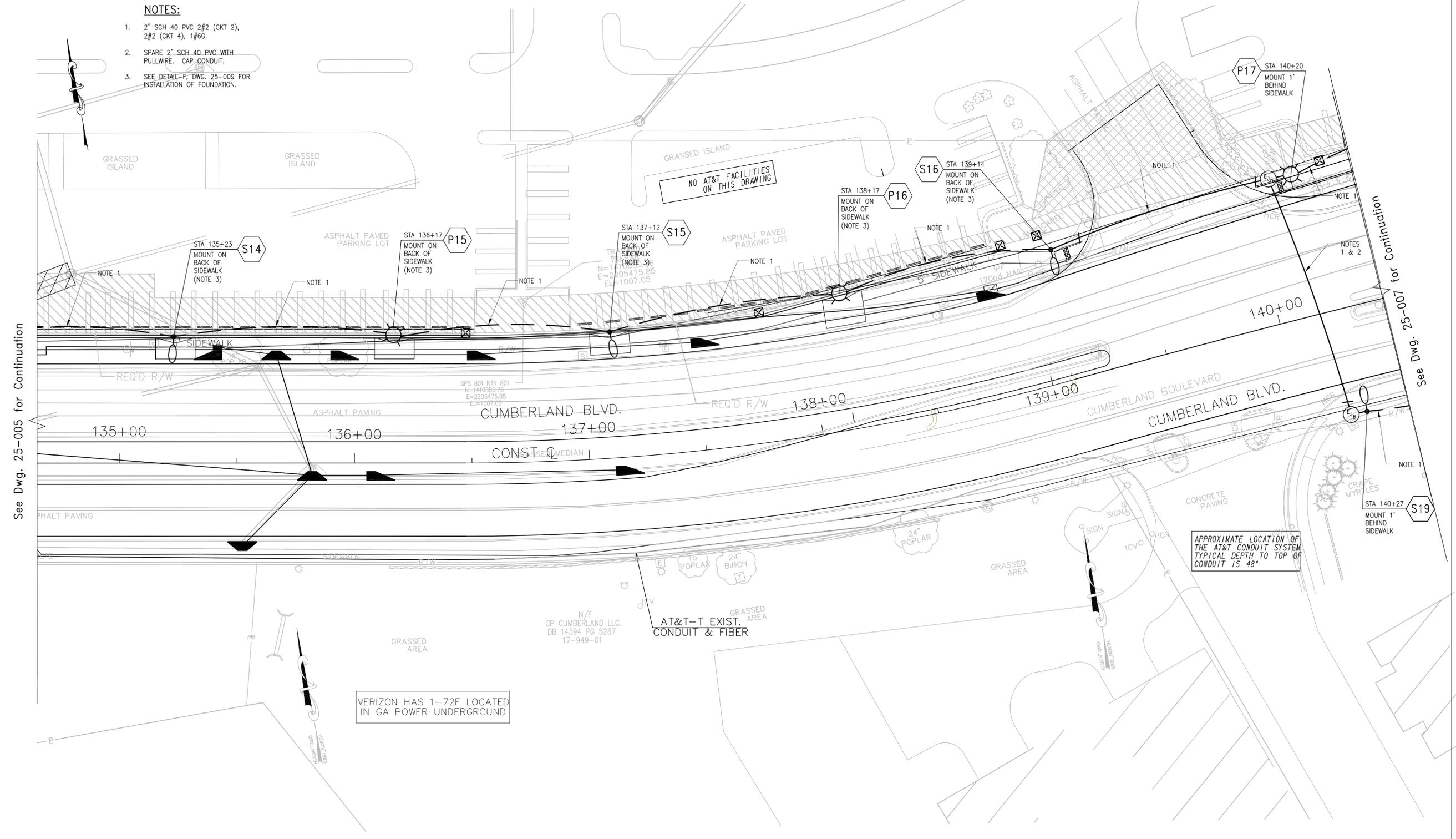
COBB COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:
Lighting Layout

CUMBERLAND BOULEVARD

DRAWING No.
25-005

NOTES:

- 2" SCH 40 PVC 2#2 (CKT 2), 2#2 (CKT 4), 1#6G.
- SPARE 2" SCH. 40 PVC WITH PULLWIRE. CAP CONDUIT.
- SEE DETAIL-F, DWG. 25-009 FOR INSTALLATION OF FOUNDATION.

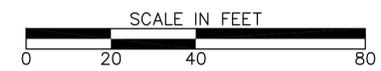


See Dwg. 25-005 for Continuation

See Dwg. 25-007 for Continuation

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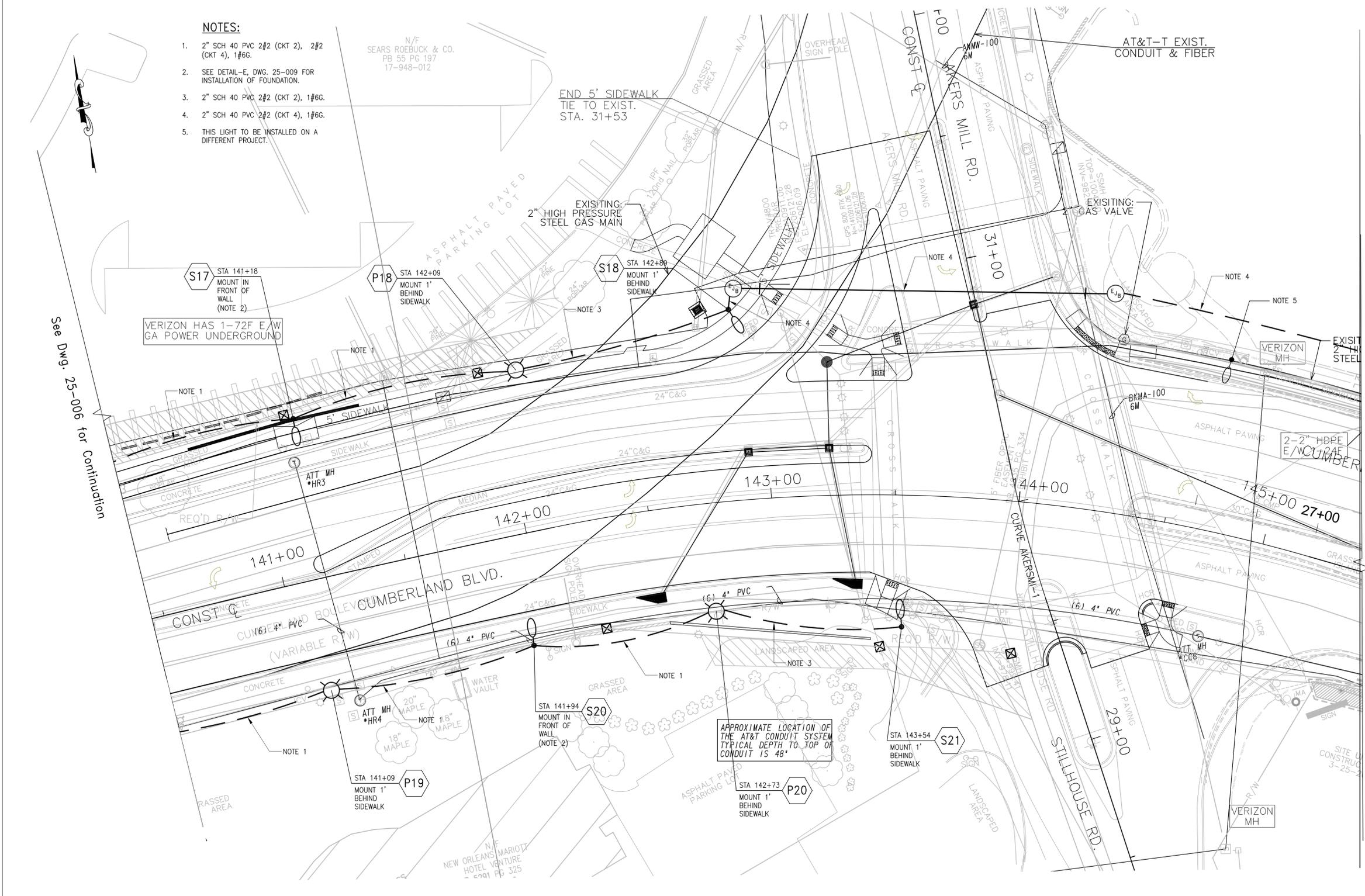
COBB COUNTY
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 OFFICE:
 Lighting Layout
 CUMBERLAND BOULEVARD
 DRAWING No.
 25-006

NOTES:

- 2" SCH 40 PVC 2#2 (CKT 2), 2#2 (CKT 4), 1#6G.
- SEE DETAIL-E, DWG. 25-009 FOR INSTALLATION OF FOUNDATION.
- 2" SCH 40 PVC 2#2 (CKT 2), 1#6G.
- 2" SCH 40 PVC 2#2 (CKT 4), 1#6G.
- THIS LIGHT TO BE INSTALLED ON A DIFFERENT PROJECT.

See Dwg. 25-006 for Continuation

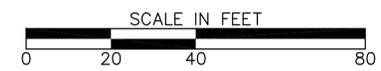
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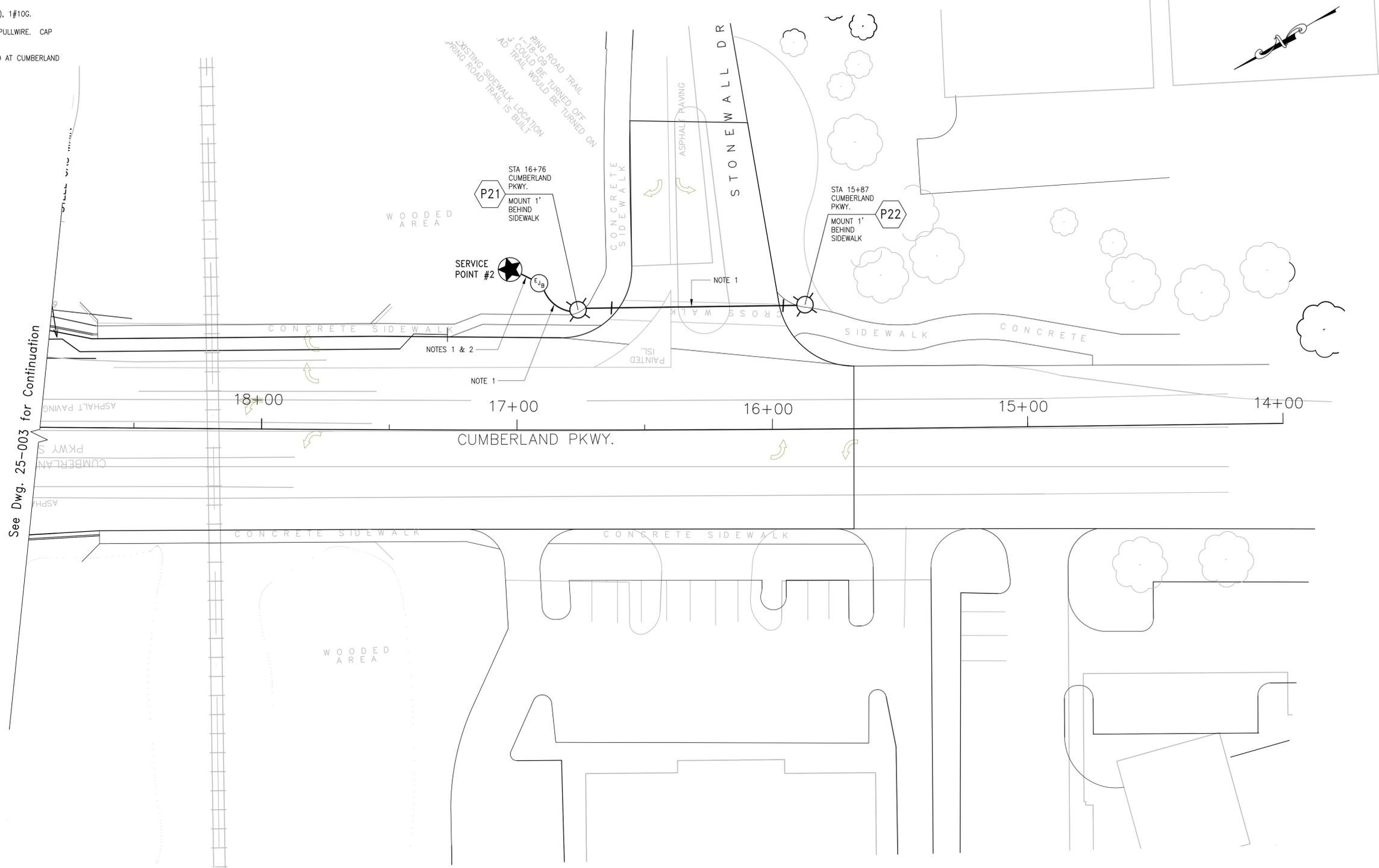
COBB COUNTY
 DEPARTMENT OF TRANSPORTATION
 OFFICE:
 Lighting Layout

CUMBERLAND BOULEVARD

DRAWING No.
 25-007

NOTES:

- 2" SCH 40 PVC 2#10 (CKT 1), 1#10G.
- SPARE 2" SCH 40 PVC WITH PULLWIRE. CAP CONDUIT.
- P21 & P22 SHOULD BE AIMED AT CUMBERLAND PARKWAY.

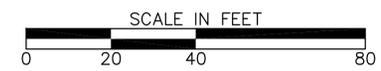


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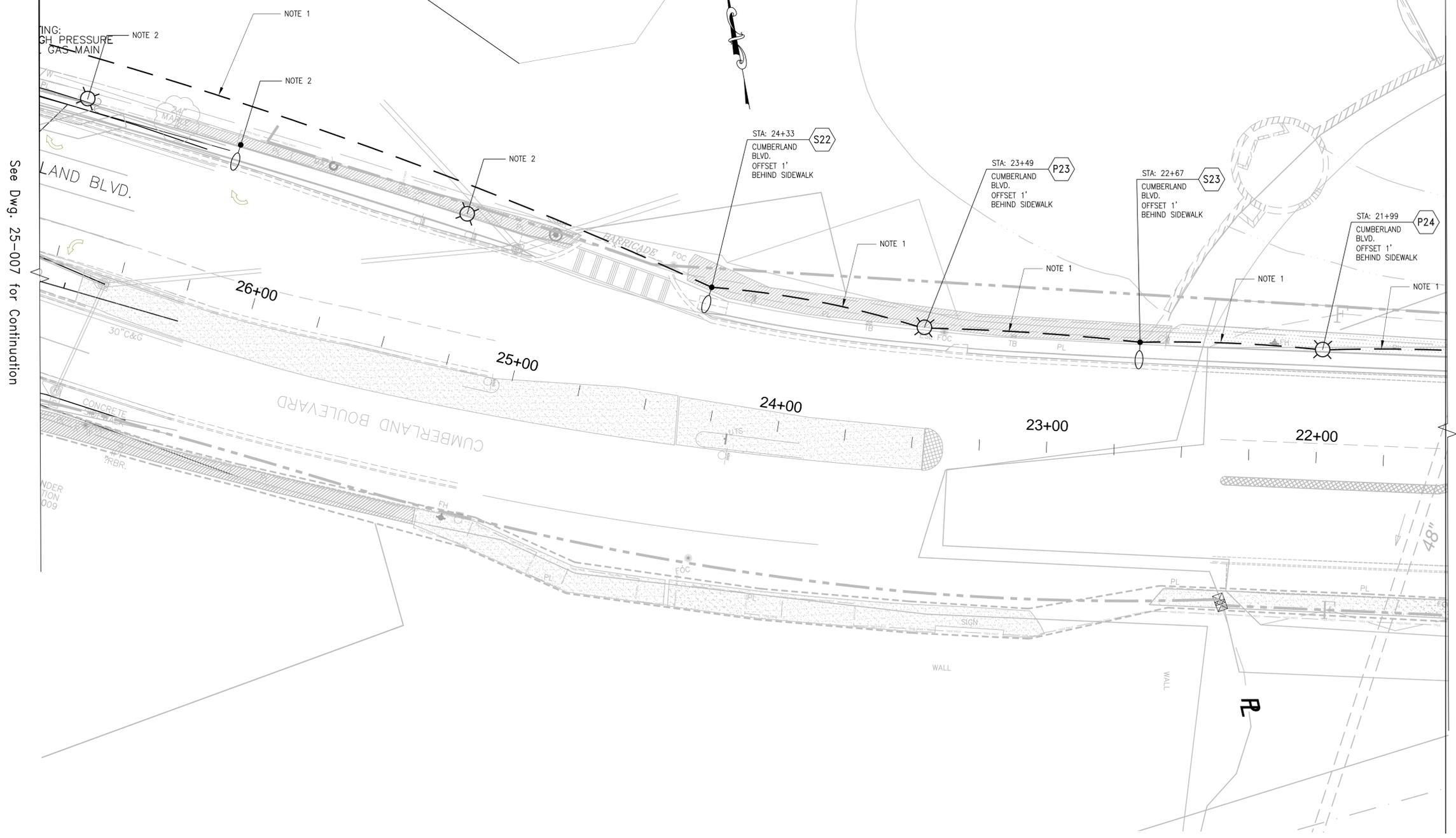
OFFICE:
Lighting Layout

CUMBERLAND BOULEVARD

DRAWING No.
25-007a

NOTES:

- 2" SCH 40 PVC 2#2 (CKT 4), 1#6G.
- THIS LIGHT TO BE INSTALLED ON A DIFFERENT PROJECT.



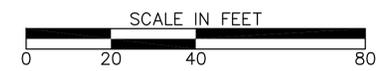
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See Dwg. 25-007c for Continuation

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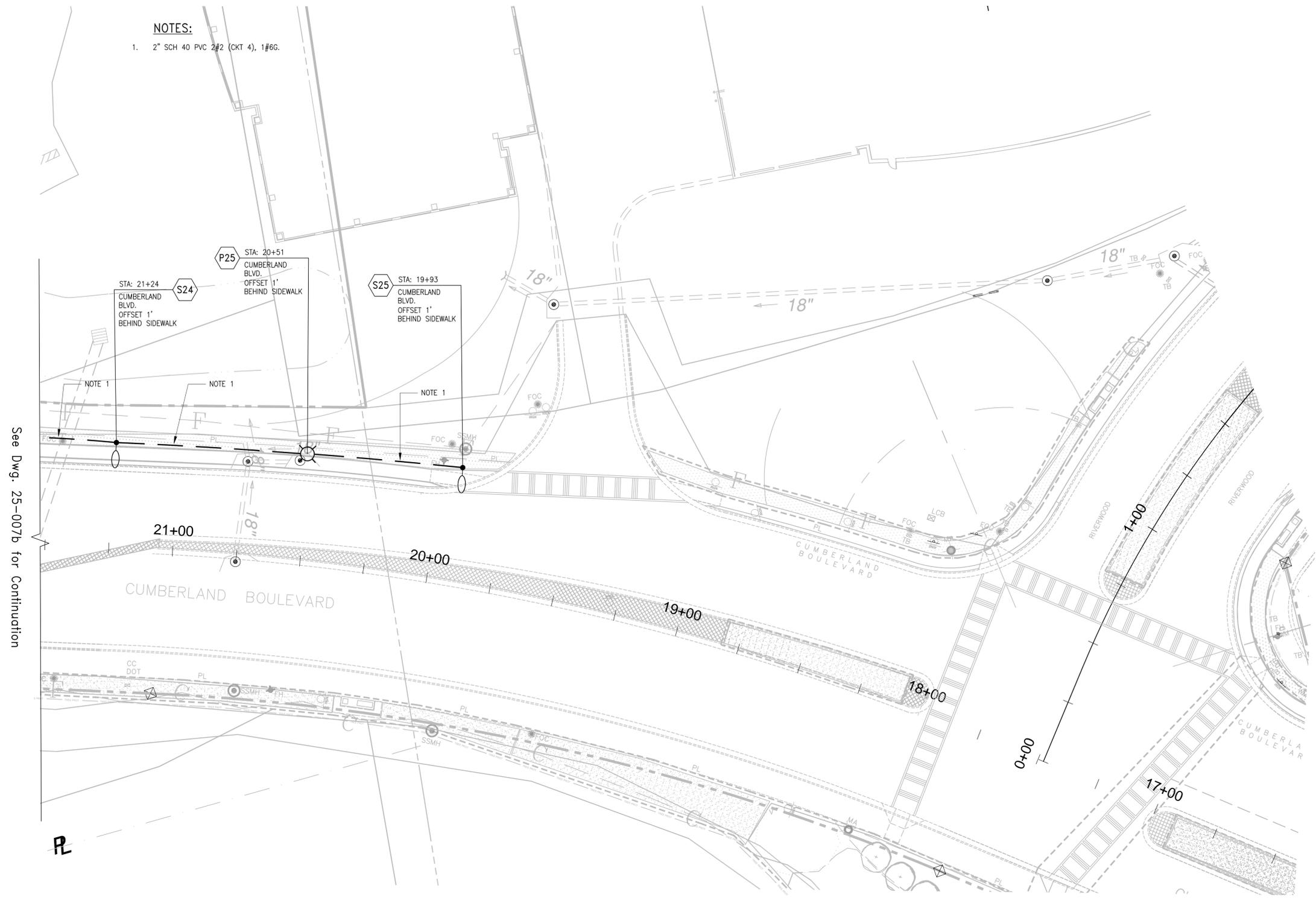
COBB COUNTY
DEPARTMENT OF TRANSPORTATION

OFFICE:
Lighting Layout

CUMBERLAND BOULEVARD

DRAWING No.
25-007b

NOTES:
 1. 2" SCH 40 PVC 2#2 (CKT 4), 1#6G.

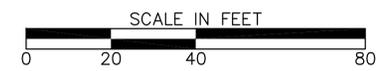


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COBB COUNTY
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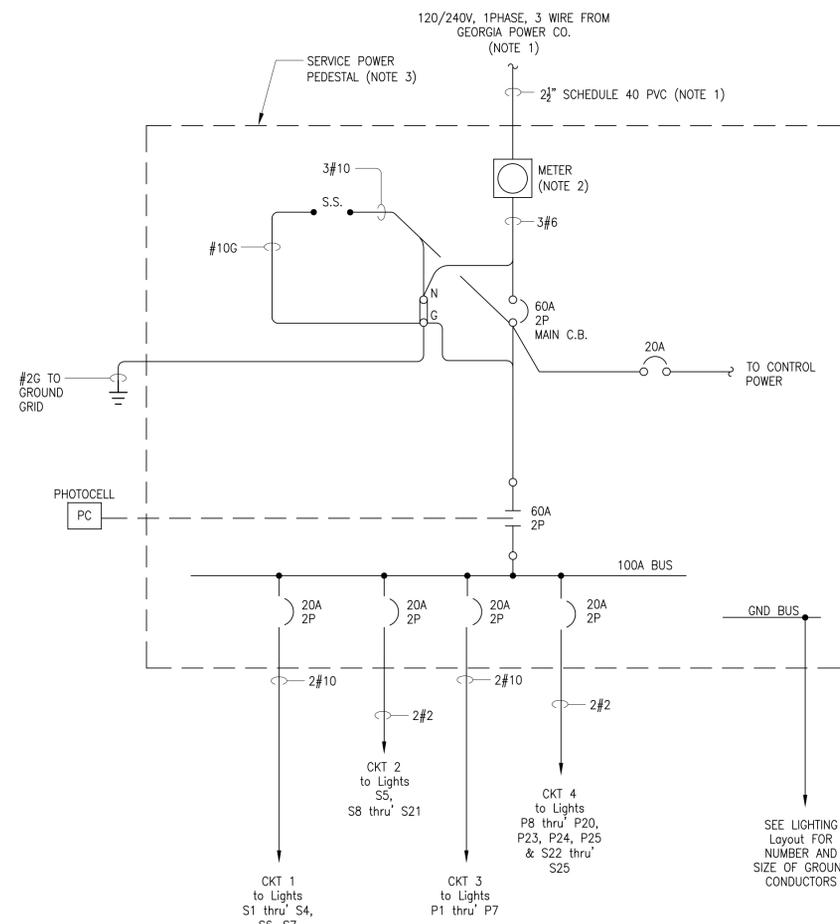
OFFICE:
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CUMBERLAND BOULEVARD

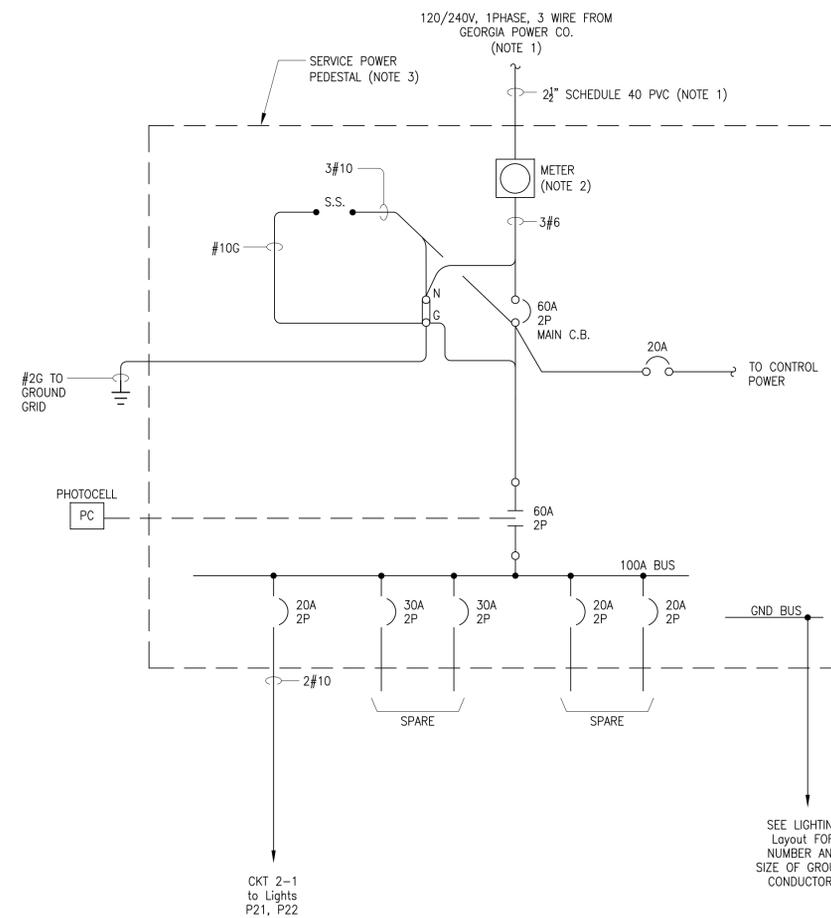
DRAWING No.
 25-007c

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER FOR LOCATION OF POWER SERVICE.
2. CONTRACTOR SHALL INSTALL METER IN THE METER SOCKET PROVIDED WITH THE SERVICE POWER PEDESTAL IN ACCORDANCE WITH GEORGIA POWER.
3. REFER TO DWG. 25-010 FOR THE DETAILS AND SPECIFICATIONS FOR THE SERVICE POWER PEDESTAL.



**SINGLE LINE DIAGRAM
SERVICE POINT #1**

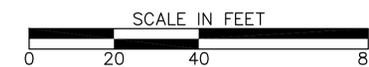


**SINGLE LINE DIAGRAM
SERVICE POINT #2**

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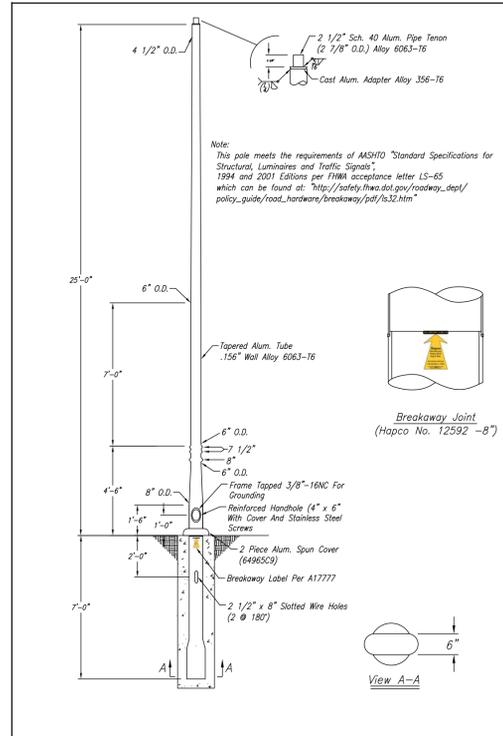
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DEPARTMENT OF TRANSPORTATION

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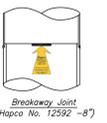
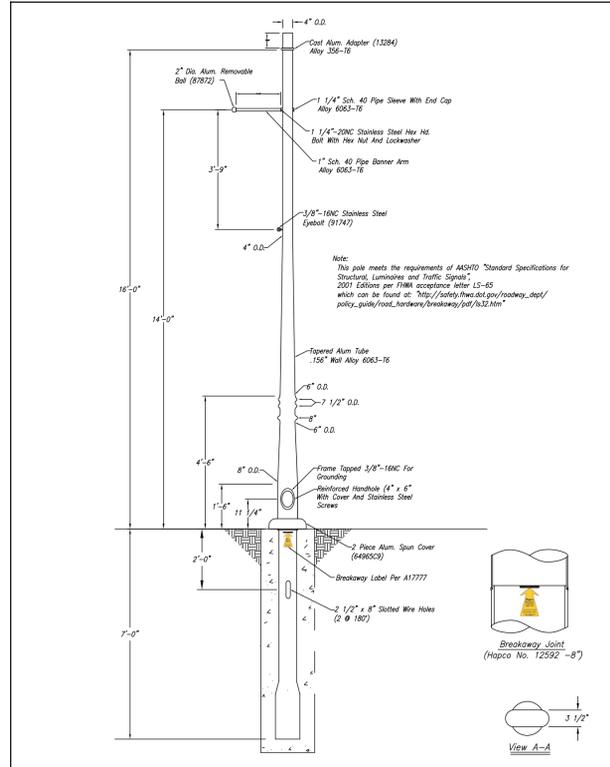
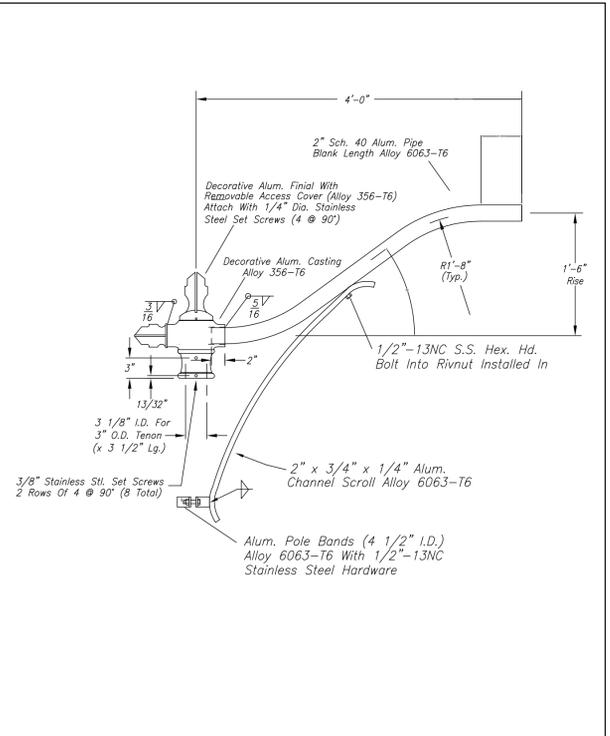
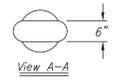
Single Line Diagram

CUMBERLAND BOULEVARD

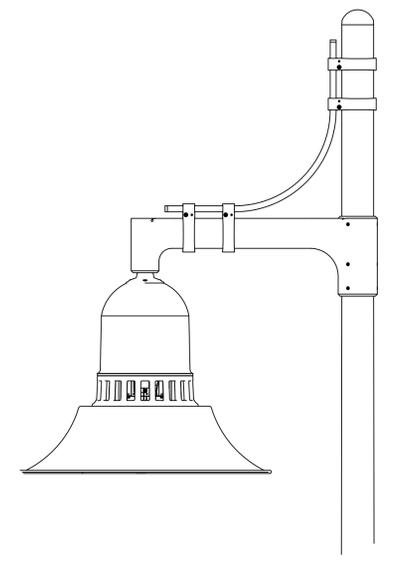
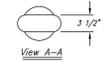
DRAWING No.
25-008



Breakaway Joint
(Hapco No. 12592 -8")

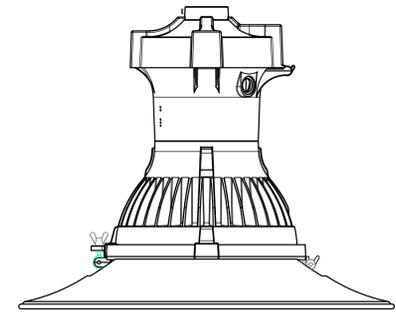


Breakaway Joint
(Hapco No. 12592 -8")



DETAIL FOR
PEDESTRIAN LIGHT WITH
MOUNTING BRACKET
N.T.S.

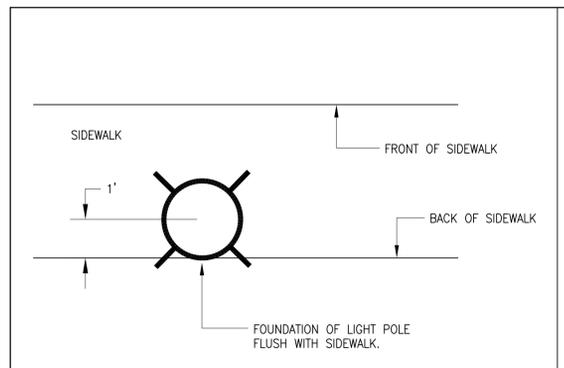
COOPER LIGHTING: EML EPIC MODERN LARGE LED
CATALOG NUMBER: EML-B03-LED-E1-T3-ST-FL-BK-VA6110-XX



DETAIL FOR
STREET LIGHT

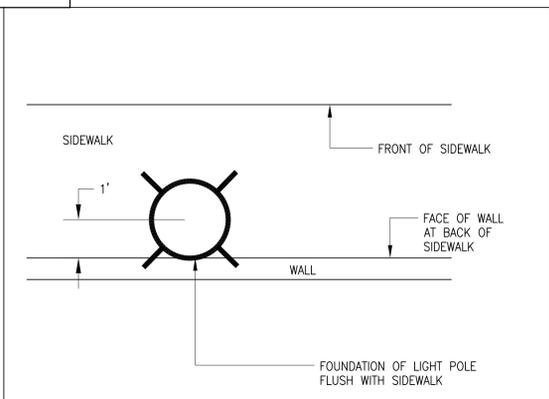
SHALLOW SKIRT, SAG GLASS, 150W LED
N.T.S.

DETAIL-'D'
STREET LIGHT DETAILS



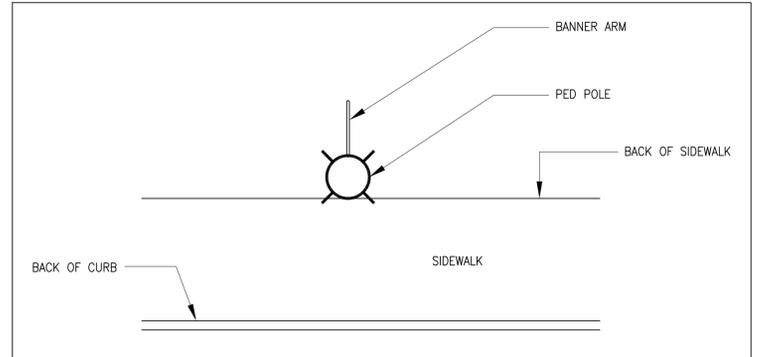
DETAIL-'F'

INSTALLATION OF FOUNDATION FOR P9, P10, P11, P12, P14,
P15, P16, S7, S8, S9, S10, S11, S13, S14, S15, S16
(N.T.S.)



DETAIL-'E'

INSTALLATION OF FOUNDATION FOR S17, S20
(N.T.S.)



PLAN VIEW DETAIL OF
ORIENTATION OF BANNER ARM
ON PEDESTRIAN POLES
(NOT TO SCALE)

DETAIL-'C'
PEDESTRIAN LIGHT DETAILS

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REVISION DATES			

COBB COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:
Lighting Details
CUMBERLAND BOULEVARD

DRAWING No.
25-009

NOTES

1. THE DIMENSIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. THE CONTRACTOR SHALL OBTAIN THE ACTUAL DIMENSIONS FROM THE SERVICE POWER PEDESTAL MANUFACTURER.

Service Power Pedestal Specifications

The service power pedestals shall be provided at each service point and shall consist of all the components indicated on the single line diagrams.

The ratings shall be as follows:

Voltage rating: 120/240V, 1phase, 3wire
 *Available short circuit current: 14,000A R.M.S. symmetrical
 Current rating: See single line diagrams

The pedestal shall be of NEMA Type 3R rainproof construction and shall be UL listed as "Enclosed Industrial Control Equipment" (UL 508A). External construction shall comply with UL50 requirements and shall be of aluminum with light green #14672 Federal Specification 595 polyurethane industrial grade powder paint of 1.7 mil minimum thickness. Internal construction shall be G 90 galvanized steel with 1.7 mil minimum thickness polyurethane industrial grade powder coat paint. No fasteners except sealing screws shall be removable by external access. Hinges shall be stainless steel and of the continuous piano hinge type.

The pedestal mounting bolts shall not be externally accessible. The pedestal shall be offered with an optional base designed to be embedded in concrete in place of anchor bolts.

The service pedestal must have two separate isolated sections for utility termination and customer equipment.

The utility termination section must be pad-lockable and sealable and shall have a stainless steel handle provided on a lift-off cover. Sufficient clearance shall be provided for the indicated conduit for utility cables entrance. Utility landing lugs shall be UL listed and shall accommodate #6 - 350 kcmil conductors.

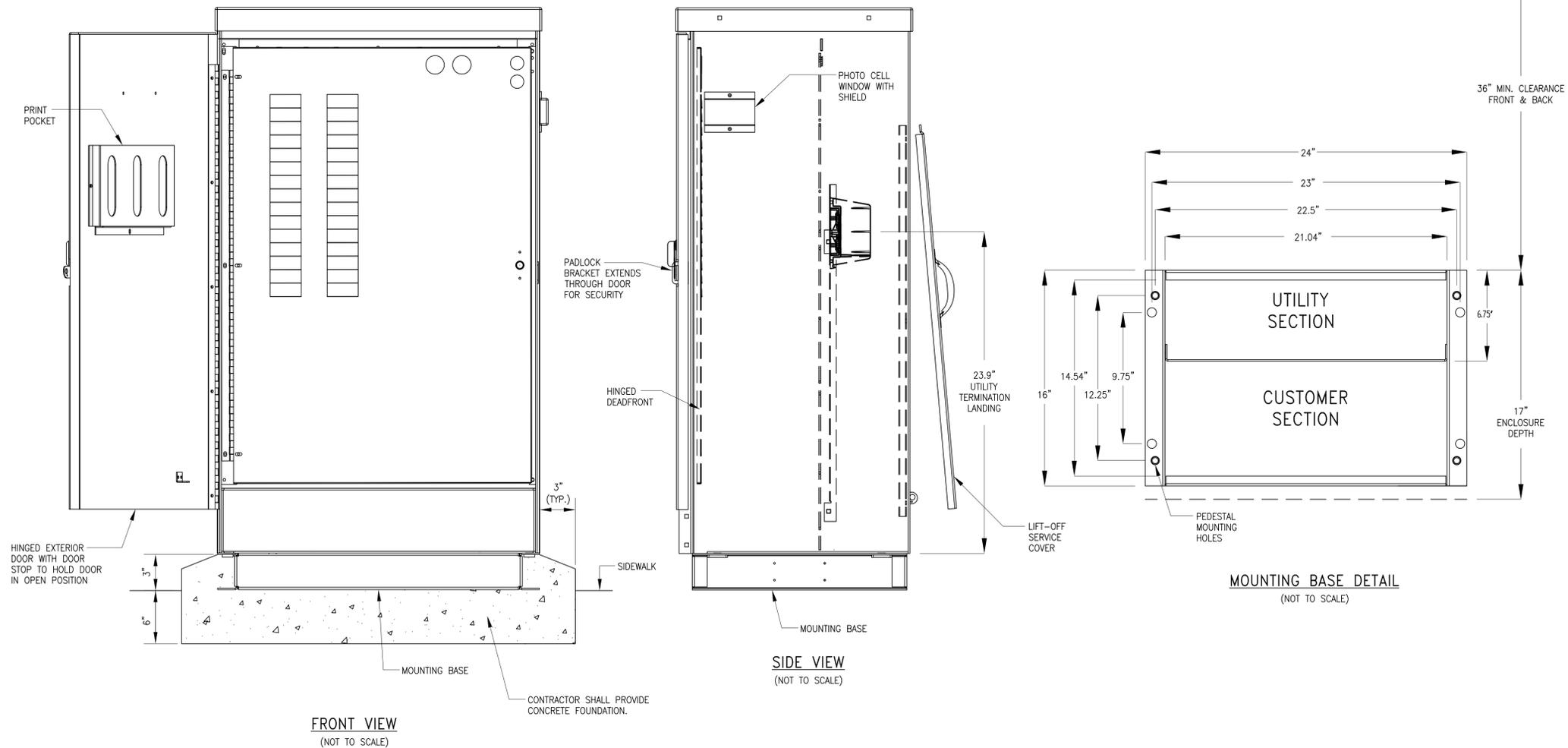
The customer compartment door shall be hinged on the left hand side. A stainless pad-lockable hasp provided to secure customer compartment. A door keeper provided to keep the door in an open position. A print pocket on the inside of the door shall hold all wiring schematics, circuit directories and instructions in a clear, weatherproof sleeve. Required UL labeling shall be located on the inside of the customer door. Distribution and control equipment shall be behind an internal dead-front door with a quarter-turn securing latch and be hinged to open more than 90 degrees. The dead-front door shall be hinged on the same side as the customer section door. All distribution and control equipment shall be factory wired using 600 volt wire sized to NEC and UL requirements.

Circuit breakers shall be permanently labeled with engraved name plates. The contactors for the switched section shall be controlled from 'Hand-Off-Auto' selector switches provided on the door. A photocell provided with each service pedestal shall control the contactor in the 'Auto' position of the selector switch. A surge suppressor Emerson catalog No. 510SA08ANAJ1S shall be provided inside each service power pedestal enclosure.

The service power pedestal shall be Milbank CP3B 'SL' series or approved equal, custom built for each service point in accordance with the single line diagrams.

See Dwg. 25-001, Detail-A, for ground grid.

* Confirm with utility.



SERVICE POWER PEDESTAL
(NOTE 1)

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REVISION DATES	

COBB COUNTY
 DEPARTMENT OF TRANSPORTATION
 OFFICE:
 Service Power Pedestal
 CUMBERLAND BOULEVARD
 DRAWING No.
 25-010