INDEX OF LIGHTING PLANS

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LIGHTING PLANS

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

LIGHTING PLANS

INTERSECTION CONTROL (ROUNDABOUT)
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE

PROJECT LOCATION

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

David J Allen
2020.01.27 16:09:50 -05'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

LIGHTING PLANS
ENGINEER OF RECORD:
DAVID ALLEN, P.E.
P.E. NO. 58540
CARDNO, INC.
3905 CRESCENT PARK DR.
RIVERVIEW FL. 33578
(813) 257-0005
CERTIFICATE OF AUTHORIZATION NO.: 29915

COUNTY PROJECT MANAGER:
Alejandro J. Slaibe, P.E.

<table>
<thead>
<tr>
<th>CIP NO.</th>
<th>FISCAL YEAR</th>
<th>SHEET NO.</th>
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<tbody>
<tr>
<td>200671</td>
<td>20</td>
<td>L-1</td>
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
**TABULATION OF QUANTITIES**

<table>
<thead>
<tr>
<th>PAY ITEM NO.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>Total Sheet</th>
<th>Grand Total</th>
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<tbody>
<tr>
<td>630-2-11</td>
<td>CONDUIT, FURNISH &amp; INSTALL, OPEN TRENCH</td>
<td>LF</td>
<td>405</td>
<td>405</td>
</tr>
<tr>
<td>630-2-12</td>
<td>CONDUIT, FURNISH &amp; INSTALL, DIRECTIONAL BORE</td>
<td>LF</td>
<td>2400</td>
<td>2400</td>
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<tr>
<td>633-2-11</td>
<td>PULL &amp; SPLICE BOX, F&amp;A</td>
<td>EA</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>636-2-11</td>
<td>CUTOFF POOL BOX, 12' x 30' COVER SIZE</td>
<td>EA</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>636-2-12</td>
<td>CUTOFF POOL BOX, 12' x 24' COVER SIZE</td>
<td>EA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>639-1-122</td>
<td>ELECTRICAL POWER SERVICE, F&amp;A</td>
<td>AS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>641-2-12</td>
<td>PRECAST CONCRETE POLE, F&amp;A, TYPE P-11 SERVICE POLE (12')</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>715-7-11</td>
<td>LIGHTING CONDUCTORS, F&amp;A, INSULATED, NO 8 TO NO 8</td>
<td>LF</td>
<td>132675</td>
<td>132675</td>
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<tr>
<td>715-7-60</td>
<td>LIGHTING CONDUCTORS, REMOVE &amp; DISPOSE, CONTRACTOR OWNS</td>
<td>EA</td>
<td>2107</td>
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<tr>
<td>715-7-12</td>
<td>LIGHT PILE COMPLETE, FURNISH &amp; INSTALL STANDARD POLE STANDARD FOUNDATION, 25 MOUNTING HEIGHT</td>
<td>EA</td>
<td>18</td>
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<tr>
<td>715-7-65</td>
<td>LIGHT PILE COMPLETE, REMOVE &amp; INSTALL POLE AND FOUNDATION</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>715-7-13</td>
<td>LOAD CENTER, F&amp;A, SECONDARY VOLTAGE</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**PAY ITEM FOOTNOTES**

1. **PAY ITEM 630-2-12:**
   - The conduits shall be fitted with bell ends or equivalent fittings prior to the pulling of any wire into the conduits.

2. **PAY ITEM 630-2-12:**
   - The conduits shall be fitted with bell ends or equivalent fittings prior to the pulling of any wire into the conduits. All directional boxes under roadway shall include a spare conduit containing a pull wire and sealed with a water tight cap.

3. **PAY ITEM 630-2-12:**
   - Pull boxes designated with (lcdt) shall be for the proposed lighting system maintained by lee county. These pull boxes shall have "cutoff street lighting" stenciled in raised lettering on the pull box covers and include a concrete apron. The pull box shall be 12" x 30" and 12" deep. This pull box shall follow section 635 in foot specifications.

4. **PAY ITEM 630-2-12:**
   - Pull boxes designated with (gs) shall be for the adjusted gateway service community development district existing light system. These pull boxes shall have "cutoff street lighting" stenciled in raised lettering on the pull box covers. The pull box and cover shall be concrete with the size of 12" x 24" and 12" deep.

5. **PAY ITEM 640-2-12:**
   - Concrete service pole for the power service assemblies shall be 12 feet.

6. **PAY ITEM 715-1-60:**
   - At locations where existing lighting conductors are to be removed, the conduit shall remain below grade and be filled with grout. All conduit remaining above final grade shall be cut below grade. This is covered under this pay item.

7. **PAY ITEM 715-4-12:**
   - This pay item includes the luminaire optional 7 pin photocell receptacle and the cost of furnishing and installing the field installed houseside shield (atb2ss40) and roadside shield accessories (atb2ss40) for each luminaire. The house side shield shall be installed on all luminaires. The contractor shall install the roadside shields only on specified luminaires as directed by the engineer to help reduce glare to local businesses and residents. However, the lighting criteria and uniformity ratio must still be met if using the roadside shields. All shields not field installed shall be delivered to the location determined by lee county department of transportation. See pole data and legend for the specifications for the two luminaires.

8. **PAY ITEM 715-4-70:**
   - Includes the removal of pole, bracket arm, luminaire, transformer base, foundation, associated wiring and all restoration.

9. **PAY ITEM 715-4-70:**
   - This pay item for the load center shall include but not limited to nema 4x pole mount cabinet, additional enclosures, panel boards, main breaker, circuit breakers, lighting protection, photo-electric assembly, contactor, h.o.a switch, conduit and feeder conductors from the power service assembly to the lighting control panel and all miscellaneous hardware for a complete installation. Two type p-11 concrete service pedestals for the load center assembly are paid for separately.

   The load center shall be a three wire, single phase 120v/240v power service assembly.
ROADWAY LIGHTING GENERAL NOTES

1. ADHERING TO REQUIREMENTS IN "LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNAL & STREET LIGHTING", DATE REVISED APRIL 15, 2014, CONTACT LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) FOR ADDITIONAL EQUIPMENT OR INSTALLATION REQUIREMENTS. FOLLOW THE LOCAL GOVERNING STANDARDS AND SPECIFICATIONS FOR ALL ITEMS NOT COVERED BY LEE COUNTY SPECIFICATIONS.

2. SPADE CONCRETE AT PAVEMENT CROSSINGS SHALL BE CAPPED AT BOTH ENDS.

3. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE ROADWAY LIGHTING PROJECT TO THE ENGINEER OF RECORD IN ACCORDANCE WITH THE SPECIFICATIONS.

4. PROVIDE SHOP DRAWINGS OF THE PHOTOOMETRIC CALCULATIONS FOR LUMINAIRES OTHER THAN THE BASIS OF DESIGN. THE LUMINAIRE BASIS OF DESIGN IS THE FOLLOWING:

- AMERICAN ELECTRIC LIGHTING AUTOBAHN ATB2 88 WATT LED LUMINAIRES 4000K COLOR TEMPERATURE WITH TYPE III DISTRIBUTION AND HOUSING SHIELD. PHOTOOMETRIC CURVE IS ATB2 404LED70 XXXX R2 HS.
- AMERICAN ELECTRIC LIGHTING AUTOBAHN ATB2 133 WATT LED LUMINAIRE 4000K COLOR TEMPERATURE WITH TYPE III DISTRIBUTION AND HOUSING SHIELD. PHOTOOMETRIC CURVE IS ATB2 404LED70 XXXX R3 HS.

SEE PULL BOX AND LEGEND SHEET AND PAY ITEM FOOTNOTES FOR ADDITIONAL INFORMATION. MEET ALL PHOTOOMETRIC REQUIREMENTS IN THE CONTRACT DOCUMENTS.

5. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE NEIGHBORING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AND LOCALITY TO AVOID DAMAGE TO UNDERGROUND UTILITIES. NO DAMAGE TO UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE NOTIFIED TO THE PROPERTY OWNERS.

6. BEFORE EXCAVATING, IT IS REQUIRED THAT NOTICE BE GIVEN TO SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) AT 1-800-434-7000. ADDITIONAL NOTICE OF TWO (2) FULL BUSINESS DAYS PRIOR TO WORK BEGINS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.

7. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, AND JUNCTION BOXES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE CONTRACTOR WITH APPROVAL FROM THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS. THE MAINTENANCE SLAB ORIENTATION SHALL BE DETERMINED BY THE CONTRACTOR PER INDIVIDUAL POLE LOCATION.

8. ALUMINUM POLES, LUMINAIRES AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED PER NEC REQUIREMENTS.

10. IN ACCORDANCE WITH NEC, IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACID" TAGS. INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING THE CIRCUIT FOR EACH LUMINAIRE AT ACCESS HAND HOLE FOR EACH POLE.

11. NOTIFY FLORIDA POWER AND LIGHT (FPL) AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE DISTANCE PER CURRENT OSHA REQUIREMENTS OF ENERGIZED ELECTRICAL CONDUCTORS, FPL, AT ITS OPTION, WILL SHUT OFF POWER TO ENERGIZED CONDUCTORS AT INSTALLATION SITES OR THE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.

12. OVERHEAD FACILITIES ARE TO REMAIN ENERGIZED AND IN PLACE. TABLE "A", MINIMUM CLEARANCE DISTANCES SPECIFIED IN SUBPART CC OF OSHA RULE 1926 (AS THEY PERTAIN TO CRANE/DERRICK OPERATIONS), AND/OR THOSE MINIMUM CLEARANCES AS SPECIFIED IN THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED PER NEC REQUIREMENTS.

13. THE POWER SERVICE CONDUIT AND CABLE SHALL BE INSTALLED FROM THE PROPOSED LOAD CENTER TO THE LEFT-FRONT OF THE TRANSFORMER. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.

14. AT LOCATIONS WHERE THE PROXIMITY OF THE INSTALLATION IS CLOSE TO THE EXISTING OVERHEAD POWER, AS DETERMINED BY THE ENGINEER, A "LOW PROFILE" RIG SHALL BE REQUIRED TO DRILL THE FOUNDATION AND INSTALL THE POLE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.

15. NO SCREW TYPE BASE FOUNDATIONS SHALL BE USED.

17. ARRANGEMENTS FOR ELECTRICAL SERVICE TO THE LIGHT POLES CONDUCTORS OR CONDUIT RUN, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.

18. THE NEW LIGHTING SYSTEM CONDUIT SHALL GO STRAIGHT TO THE PROPOSED LIGHT POLE FOUNDATION. ALL SPACES SHALL BEault IN THE TRANSFORMER BASES.

19. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME WORK PERIOD.

20. THE LIGHTING SYSTEM WILL BE MAINTAINED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) UPON FINAL ACCEPTANCE.

21. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.

22. UPON PASSING THE FINAL INSPECTION, SUBMIT A WRITTEN REQUEST TO THE FOLLOWING:

- LEE COUNTY DEPARTMENT OF TRANSPORTATION
  TRAFFIC ENGINEERING DEPARTMENT
  2500 MONROE STREET
  FORT MYERS, FLORIDA 33901
  PHONE: 239-533-8580

23. WHEN REQUESTING TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO LCDOT, LCDOT WILL RESPONSIBLY WITHIN FIVE (5) WORKING DAYS TO ESTABLISH TIME TABLE FOR THE TRANSFER OF MAINTENANCE RESPONSIBILITY.

24. IN CIRCUMSTANCES WHERE INDUCTION IS COMPLETE, A HARD COPY SET OF "AS-BUILT" PLANS IN ADDITION TO AN ELECTRONIC COPY (PDF) IS TO BE SUBMITTED TO THE CONTRACTOR WITH A MINIMUM OF TWO (2) WEEKS PRIOR TO ANY WORK ON THE EXISTING LIGHTING SYSTEM. CONTACT INFORMATION IS AS FOLLOWS:

- BILL SHAW
  GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT
  13240 GRIFFIN DRIVE
  FORT MYERS, FLORIDA 33933
  PHONE: 239-561-1313

25. LIGHT POLES AND BOXES SHALL NOT BE LOCATED IN GRADE SWALES, DITCHES, WETLANDS, DRIVEWAYS, SURFACE WATER, FAVED SHOULDERS OR PEDESTRIAN RAMPS.

26. THE CONTRACTOR SHALL BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUIT OR PULL BOXES ARE TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

27. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOOTER SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE CONTRACTOR. ENGINEER'S IS PAID FOR UNDER PAY ITEMS 715-11.

28. CONTACT GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT A MINIMUM OF TWO (2) WEEKS PRIOR TO ANY WORK ON THE EXISTING LIGHTING SYSTEM. CONTACT INFORMATION IS AS FOLLOWS:

- BILL SHAW
  GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT
  13240 GRIFFIN DRIVE
  FORT MYERS, FLORIDA 33933
  PHONE: 239-561-1313

29. COORDINATE WITH GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT FOR EXISTING LIGHTING LOAD CENTER WHEN WORKING ON THE EXISTING LIGHTING SYSTEM.

30. THE EXISTING LIGHTING SYSTEM WITHIN PROJECT LIMITS SHALL BE IN COMPLETE WORKING ORDER PRIOR TO FINAL ACCEPTANCE.

31. ALL REMOVED ITEMS INCLUDING BUT NOT LIMITED TO THE LIGHT POLES, LUMINAIRES, PULL BOXES, WIRING AND CONCRETE ARE TO BE DISPOSED OF BY THE CONTRACTOR AT A PLACE DETERMINED BY THE CONTRACTOR.

32. ALL CONDUIT INSTALLATION NEAR TREES SHALL MEET ANSI 300 STANDARDS.

33. THE EXISTING LIGHTING SYSTEM WITHIN PROJECT LIMITS SHALL BE IN COMPLETE WORKING ORDER PRIOR TO FINAL ACCEPTANCE.

34. THE CONTRACTOR SHALL BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUIT OR PULL BOXES ARE TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

35. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOOTER SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE CONTRACTOR. ENGINEER'S IS PAID FOR UNDER PAY ITEMS 715-11.

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  13240 GRIFFIN DRIVE
  FORT MYERS, FLORIDA 33933
  PHONE: 239-561-1313

37. COORDINATE WITH GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT FOR EXISTING LIGHTING LOAD CENTER WHEN WORKING ON THE EXISTING LIGHTING SYSTEM.

38. THE EXISTING LIGHTING SYSTEM WITHIN PROJECT LIMITS SHALL BE IN COMPLETE WORKING ORDER PRIOR TO FINAL ACCEPTANCE.

39. ALL REMOVED ITEMS INCLUDING BUT NOT LIMITED TO THE LIGHT POLES, LUMINAIRES, PULL BOXES, WIRING AND CONCRETE ARE TO BE DISPOSED OF BY THE CONTRACTOR AT A PLACE DETERMINED BY THE CONTRACTOR.

40. ALL CONDUIT INSTALLATION NEAR TREES SHALL MEET ANSI 300 STANDARDS.

41. THE EXISTING LIGHTING SYSTEM WITHIN PROJECT LIMITS SHALL BE IN COMPLETE WORKING ORDER PRIOR TO FINAL ACCEPTANCE.

42. ALL REMOVED ITEMS INCLUDING BUT NOT LIMITED TO THE LIGHT POLES, LUMINAIRES, PULL BOXES, WIRING AND CONCRETE ARE TO BE DISPOSED OF BY THE CONTRACTOR AT A PLACE DETERMINED BY THE CONTRACTOR.

43. ALL CONDUIT INSTALLATION NEAR TREES SHALL MEET ANSI 300 STANDARDS.

FACTORIES, INDUSTRIES AND SCHOOLS ARE COVERED UNDER CODE 61G15-23.004, F.A.C.
CERTIFICATE OF AUTHORIZATION: 29915
RIVERVIEW, FL  33578
3905 CRESCENT PARK DRIVE
CARDNO
P.E. NO.: 58540
DAVID J. ALLEN, PE

DATE
DESCRIPTION
REVISIONS
DATE
DESCRIPTION

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INTERSECTION CONTROL (ROUNDABOUT)
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
DEPARTMENT OF TRANSPORTATION

LIGHTING DESIGN CRITERIA
Average Horizontal Initial Intensity  3.0 Foot Candles
Average Vertical Initial Intensity  2.3 Foot Candles
Uniformity Ratio Avg./Min.  43 Or Less
Max./Min.  105 Or Less
Veiling Luminance Ratio  0.22 Or Less
Wind Speed  170 MPH

LEGEND

POLE DATA

POLE NO.  CIRCUIT  STATION  DIST. OR ARM  LUMINAIRE WATTAGE  WANTED HEIGHT  POLE SETBACK TO CENTER OF POLE  PAY ITEM

1  A-3  105+60, BL GATEWAY LT  15  88  35'  7' FROM FOC  715-4-12
2  A-3  106+93, BL GATEWAY RT  15  133  35'  3' FROM BOS  715-4-12
3  A-3  107+40, BL GATEWAY LT  15  88  35'  3' FROM BOS  715-4-12
4  A-7  211+87, BL COMMERCE RT  15  88  35'  3' FROM BOS  715-4-12
5  A-3  209+56, BL COMMERCE RT  15  133  35'  2' FROM BOS  715-4-12
6  A-3  213+12, BL COMMERCE RT  15  88  35'  5' FROM FOC  715-4-12
7  A-3  207+02, BL COMMERCE RT  15  88  35'  7' FROM FOC  715-4-12
8  A-2  214+06, BL COMMERCE LT  15  88  35'  10' FROM FOC  715-4-12
9  A-4  208+28, BL COMMERCE LT  15  88  35'  10' FROM FOC  715-4-12
10 A-2  212+27, BL COMMERCE LT  15  133  35'  7' FROM BOS  715-4-12
11 A-4  209+76, BL COMMERCE LT  15  133  35'  2' FROM BOS  715-4-12
12 A-2  210+67, BL GATEWAY LT  15  88  35'  2' FROM BOS  715-4-12
13 A-3  213+62, BL GATEWAY RT  15  88  35'  5' FROM FOC  715-4-12
14 A-2  207+02, BL GATEWAY RT  15  88  35'  12' FROM FOC  715-4-12
15 A-4  211+59, BL GATEWAY LT  15  88  35'  12' FROM FOC  715-4-12
16 A-2  211+09, BL GATEWAY RT  15  88  35'  10' FROM EOP  715-4-12

FOC = FACE OF CURB, FOS = FRONT OF SIDEWALK, BOS = BACK OF SIDEWALK, EOP = EDGE OF PAVEMENT, GW = GRAVITY WALL

FACILITY NAME: GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

POWER SERVICE ASSEMBLY. FOR SPECIFICATIONS SEE SECTION 639 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PROPOSED 120V/240V LOAD CENTER. FOR REQUIREMENTS SEE INDEX NO. 639-001 OF THE FDOT STANDARD PLANS.

POWER SERVICE ASSEMBLY. FOR SPECIFICATIONS SEE SECTION 639 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

POWER SERVICE ASSEMBLY. FOR SPECIFICATIONS SEE SECTION 639 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CIP NO.  SHT. NO.

POLE DATA AND LEGEND

200671  L-4

DOE NO.
305490

P.E. NO.
58540

DAVID J. ALLEN, PE

P.O. BOX 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FL  33578
CERTIFICATE OF AUTHORIZATION: 29915

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INTERSECTION CONTROL (ROUNDABOUT)

DEPARTMENT OF TRANSPORTATION

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NOTES:

1. A PROPOSED GS PULL BOX IS TO BE PLACED TO INTERCEPT THE EXISTING CONDUIT CROSSING COMMERCE LAKES DRIVE. AT THE INTERSECTION, THE EXISTING CONDUIT SHALL BE SPLICED TO THE PROPOSED ADJUSTED CONDUCTORS TO REMAIN FROM THE SOUTH. THE LIGHT POLES TO REMAIN FROM THE EAST. THE EXISTING LIGHTING SYSTEM CONDUCTORS FROM THE SOUTH SHALL BE ADJUSTED TO THE PROPOSED ADJUSTED EXISTING COMMERCE LIGHTING SYSTEM CONDUCTORS FROM THE EAST.
NOTES:
1. EXISTING LIGHT POLE IS TO BE REMOVED AND REPLACED WITH A GS POUL BOX. THE EXISTING LIGHTING CONDUCTORS SHALL BE SPLICED FROM BOTH SIDES OF THE REMOVED LIGHT POLE TO MAINTAIN POWER TO THE EXISTING DOWNSTREAM LIGHT POLES.

2. GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT INHERITED THE EXISTING LIGHT POLES, CONDUIT AND CONDUCTORS ON COMMERCE LAKE DRIVE EAST OF GATEWAY REGIONAL ROAD. CONTACTS WITH BOTH GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT AND FPL A MINIMUM OF TWO (2) WEEKS FOR THE LOAD CENTER LOCATION AND ACCESS WHEN WORKING ON THE EXISTING COMMERCE LIGHTING SYSTEM ON THIS SHEET.

EXISTING COMMERCE LIGHTING CONDUCTORS TO REMAIN

LIGHT POLE TO BE REMOVED
SEE NOTES 1 AND 2

1 CONDUIT RUN (LC)
2- #6 AWG
1- #6 AWG GRND

EXISTING COMMERCE LIGHTING CONDUCTORS TO REMAIN

2 1/27/2020
4:06:55 PM

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KEYED NOTES

1. 120/240V SINGLE PHASE 3-WIRE FPL ELECTRIC DISTRIBUTION UNDERGROUND SERVICE FROM FPL TRANSFORMER.
2. INSULATED #2 COPPER FEEDER CONDUCTORS IN RIGID GALVANIZED STEEL CONDUIT.
3. METER SOCKET BY CONTRACTOR. METER BY FPL.
4. SERVICE MAIN DISCONNECT: 600V, 2-POLE HEAVY DUTY NEMA 3R WITH ENCLOSED BREAKER.
5. POST-MOUNTED 4X CABINET WITH LOCKABLE HINGED DOOR SIZE PER EQUIPMENT REQUIREMENT.
6. 12' PEDESTAL CONCRETE POLE.
7. ELECTRICAL PANEL, 120/240V, SINGLE PHASE 3-WIRE WITH GROUND BAR AND CIRCUIT BREAKERS. SEE PANEL SCHEDULE FOR MORE INFORMATION.
8. COPPER CLAD GROUND ROD ¾-INCH DIA. 40 FEET LONG.
9. FPL REQUIRED SIZED INSULATED COPPER GROUND WIRE IN 1-INCH RIGID GALVANIZED STEEL. BOND THE SERVICE NEUTRAL TO GROUND AT SERVICE MAIN DISCONNECT.
10. LIGHTNING ARRESTER MOUNTED ON OUTSIDE OF ENCLOSURE.
11. MAIN CIRCUIT BREAKER 2-POLE, 120/240V. SEE DISTRIBUTION POINT DESCRIPTION ON LIGHTING PLAN SHEETS FOR SIZE.
12. 2-POLE, ELECTRICALLY HELD CONTACTOR WITH SAME AMPACITY RATING AS MAIN CIRCUIT BREAKER.
13. PHOTO ELECTRIC CELL SWITCH - 120V RATED, INSIDE ENCLOSURE.
14. 'HAND-OFF-AUTOMATIC' SELECTOR SWITCH (PART OF LIGHTING CONTACTOR).
15. UNDERGROUND FEEDER CONDUIT INSULATED #2 COPPER FEEDER CONDUCTORS.
16. 12' CONCRETE PEDESTAL POLES WITH GALVANIZED UNISTRUT TO SUPPORT ELECTRICAL EQUIPMENT.
17. CONDUIT(S) WITH CONDUCTORS FOR THE LIGHTING CIRCUITS. THE CONTRACTOR SHALL DETERMINE THE NUMBER OF NECESSARY CONDUIT DROPS.

POWER SERVICE ASSEMBLY
(6391-122)

LOAD CENTER
(7153-11)

INSTALL PE SWITCH INSIDE ENCLOSURE WITH A 2 INCH BY 2 INCH SQUARE PLEXIGLASS WINDOW.

RISER DIAGRAM
(NYS)
## PANEL "A" SCHEDULE

Panel ID: Proposed Load Center "A"  
Main Breaker: 100 A  
Location: Sta. 107+36 BL GATEWAY RT, 2.5' FROM BOS  
Voltage: 120/240 V  
Mounting: Surface  
Single Phase, 3-wire

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<th>Load (KVA)</th>
<th>Breaker Pole</th>
<th>Bus Pole</th>
<th>Breaker</th>
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### NOTES

1. SAFETY SWITCH - 100 AMP F/A 100 AMP  
2. BOS = BACK OF SIDEWALK

### TOTAL DEMAND

- **5.06 KVA**  
- **21.08 AMPS**  
- **16** POLES