GENERAL NOTES

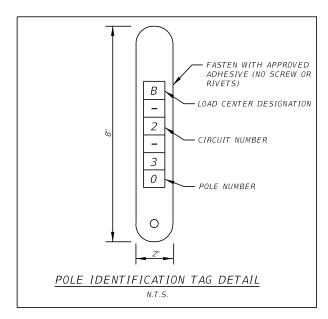
. <u>UTILITY OWNERS:</u>

NOTE TO DESIGNERS

LIST ALL UTILITY OWNERS AFFECTED BY THIS PROJECT PER EXAMPLE BELOW:

MRS. JEANNIE A. TALHOUK. FLORIDA POWER CORP: 4121 ST. LAWRENCE DRIVE. NEW PORT RICHEY, FL 34653 (813) 372-5102.

- 2. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. BEFORE EXCAVATING, NOTIFY THE UTILITY COMPANY OWNER(S) AND REQUEST THEM TO LOCATE AND STAKE THEIR UNDERGROUND FACILITIES. UTILITIES ARE TO BE ADJUSTED BY OTHERS AS DIRECTED BY THE ENGINEER.
- 3. FOR ALTERNATIVE PROPOSED LUMINAIRES, SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUTS SHOWING POINT-TO-POINT HORIZONTAL FOOT-CANDLE LEVELS TO BE OBTAINED ON THIS PROJECT. LIGHTING DESIGN ANALYSIS REPORT SHALL BE USED, IF NO ALTERNATIVE LUMINAIRES ARE PROPOSED. AT FINAL INSPECTION, THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOT-CANDLE LEVELS ON THE ROADWAY WITH AN APPROVED AND PROPERLY CALIBRATED LIGHT METER.
- 4. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILIAR TAGS OF STAINLESS STEEL, IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
- 5. NOTIFY UTILITY POWER SERVICE PROVIDER AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. UTILITY POWER SERVICE PROVIDER, AT IT'S OPTION, SHALL ASSIST THE F.D.O.T.CONTRACTOR TO COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITE OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY, HIGH VOLTAGE COMPONENTS.
- 6. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CABLE USED. PULL CABLE SHALL BE POLYESTER. STEEL CABLE OR FISH TAPES NOT ALLOWED.
- 7. THE LIGHTING SYSTEM WILL BE MAINTAINED BY UPON FINAL ACCEPTANCE.
- 8. EXISTING LIGHTING EQUIPMENT POWER SOURCES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING DEMOLITION/REMOVAL WORK.
- ALL CONDUITS SHALL BE MANDREL TESTED AND CLEANED. CONDUITS PLACED FOR FUTURE USE SHALL HAVE. 3/4" POLYESTER CORD PULLED IN PLACE AND CAPPED WITH NOTATION INSIDE CONDUIT AS TO LOCATION OF OPPOSITE END. PLACE DUCT MARKER OR PULL BOXES TO MARK ENDS OF EMPTY CONDUITS.
- 10. THE CONTRACTOR SHALL REMOVE ALL OUT OF SERVICE ROADWAY LIGHTING SYSTEM COMPONENTS INCLUDING UNDERGROUND AND SURFACE MOUNT CONDUITS, CONDUCTORS, POLE BASES, POLES, PULL BOXES, SERVICE POINTS, LOAD CENTERS, AND ALL OTHER ANCILLARY COMPONENTS RELATED TO THE LIGHTING SYSTEM NOTED IN THE PLANS.
- 11. ON REMOVED SIGN STRUCTURES, THE CONTRACTOR SHALL REMOVE ALL ASSOCIATED WIRING AND COMPONENTS FROM THE PULL BOX TO THE SIGN STRUCTURE, AND RE-SPLICE CONDUCTORS AS NEEDED.



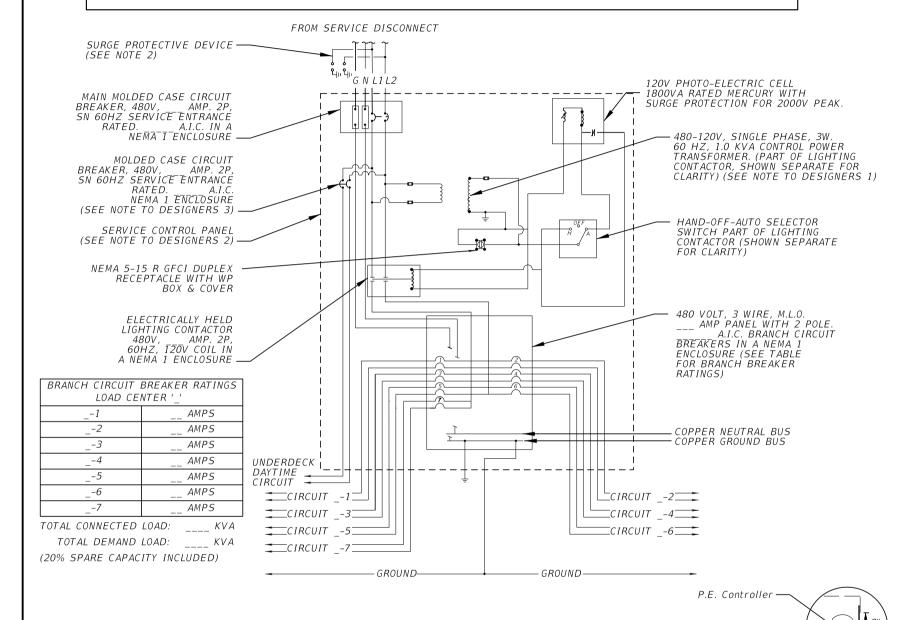
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

PAY ITEM AND
GENERAL NOTE SHEET
ROADWAY LIGHTING DESIGN

SHEET NO. 201 (I OF I) NOTE TO DESIGNERS (NOT TO BE SHOWN ON PROJECT PLANS):

- 1. CONTROL POWER TRANSFORMER FUSE RATING TO BE SHOWN ON THE LOAD CENTER SCHEMATIC DIAGRAM. FUSED PER NEC.
- 2. LOAD CENTER/SERVICE POINTS SHALL BE PROVIDED WITH A MINIMUM OF 20% SPARE CAPACITY.
- 3. BREAKER AND WIRING INSTALLED WHEN DAYTIME LIGHTING CIRCUIT IS REQUIRED.
- 4. CABINET SHALL BE GROUNDED PER NEC AND FDOT STANDARDS. SHOW GROUNDING DETAILS ON LOAD CENTER DETAILS SHEETS.



NOTES:

- 1. CONTRACTOR SHALL FURNISH ENCLOSURE SIZED FOR THE EQUIPMENT (SEE ENCLOSURE DETAIL
- 2. SURGE PROTECTIVE DEVICE (SPD): SPD UNIT SHALL BE WIRED INSIDE THE ENCLOSURE. SPD UNIT SHALL BE MOUNTED ON THE OUTSIDE OF THE ENCLOSURE.
- 3. SHOP DRAWINGS REQUIRED FOR ALL EQUIPMENT ASSOCIATED WITH THE LOAD CENTER.

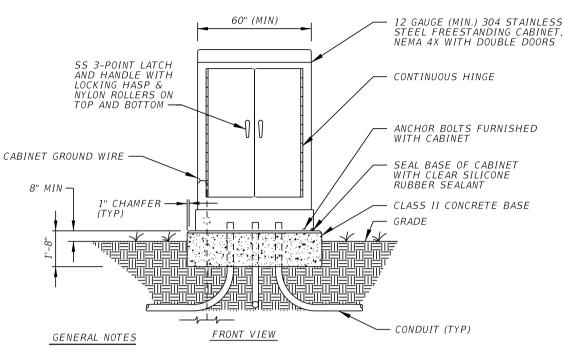
LOAD CENTER SCHEMATIC DIAGRAM

N.T.S.

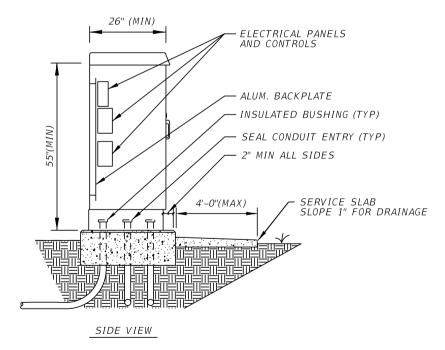
Side or Back of Enclosure CUT A 2" HOLE IN THE SIDE OF THE LIGHTING CONTROL PANEL ENCLOSURE FOR THE OPERATION AND MOUNTING OF THE P.E. CONTROLLER. USE PLEXIGLASS AND A CLEAR SILICONE SEALANT TO COVER HOLE, INSTALL P.E. CONTROLLER.

PHOTO ELECTRIC CONTROLLER DETAIL

N.T.S.



STUB-OUT ONE (1) SPARE 2" PVC CONDUIT BELOW GRADE AND BEYOND CONCRETE BASE. CAP ENDS AND INDICATE LOCATION OF STUB-OUT INSIDE CABINET



LOAD CENTER ENCLOSURE DETAIL

N.T.S.

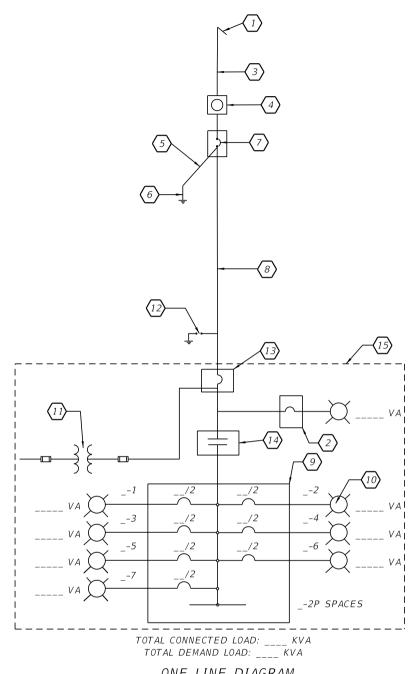
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FLORIDA TURNPIKE LOAD CENTER DETAILS

SHEET NO. 202 (I OF 2)

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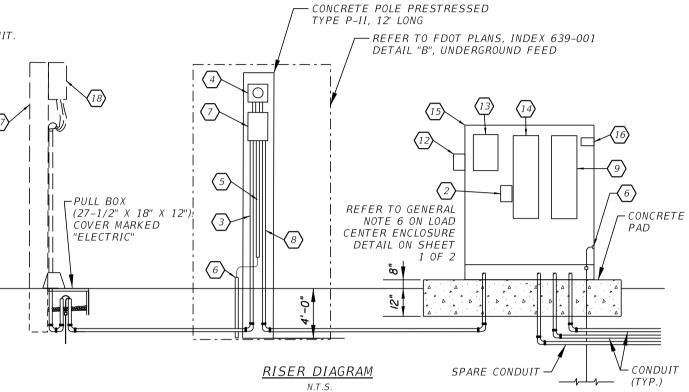
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<u>ONE LINE DIAGRAM</u> N.T.S.

KEYED NOTES

- 240/480 V SINGLE PHASE 3-WIRE "LIST POWER COMPANY"
 ELECTRIC SERVICE. SAFETY SWITCH ON SEVICE SIDE OF
 METER WHEN REQUIRED BY POWER COMPANY.
- $\langle 2 \rangle$ 480V, ___AMP ENCLOSED BREAKER.
- $\langle 3 \rangle$ 2# $_{--}$ AWG & 1 $_{--}$ AWG (N) IN $_{--}$ RIGID GALVANIZED STEEL CONDUIT.
- $\overline{\langle 4 \rangle}$ METER AS REQUIRED. HEIGHT SPECIFIED BY POWER COMPANY.
- 5 1# AWG INSULATED COPPER GROUND WIRE IN 1" RIGID GALVANIZED STEEL CONDUIT.
- 6 #6 INSULATED COPPER GROUND WIRE TO COPPER CLAD GROUND ROD, MIN. 5%" DIA. 40' LONG.
- (7) 480V ENCLOSED BREAKER NEMA 3R SERVICE ENTRANCE RATED WITH NEUTRAL AND GROUND KITS. BOND THE SERVICE NEUTRAL TO GROUND.
- 8 2# AWG, 1# AWG (N), & 1#___ AWG (G) IN _" RIGID GALVANIZED STEEL CONDUIT.
- 9 PANEL BOARD, AMP, 480V, SINGLE PHASE, 3-WIRE WITH CIRCUIT BREAKERS AND GROUND BAR AS INDICATED.
- 10angle ROADWAY LUMINAIRE CONNECTED TO CIRCUIT $\,$ -2.
- (11) CONTROL TRANSFORMER 1 KVA SINGLE PHASE, 480V PRIMARY 120V SECONDARY.
- (12) SURGE PROTECTIVE DEVICE (SPD).
 - angle MAIN CIRCUIT BREAKER $__$ AMPS, 2-POLE, 480V, $__$ AIC.
- $\langle 14 \rangle$ ___ AMP, 2-POLE, ELECTRICALLY HELD CONTACTOR.
- free Standing NEMA 4X STAINLESS STEEL ENCLOSURE WITH TWO DOORS.
- 16**>** PHOTOELECTRIC SWITCH.
- (17) "LIST POWER COMPANY" CONCRETE SERVICE POLE.
- 18ig> "LIST POWER COMPANY" TRANSFORMER.

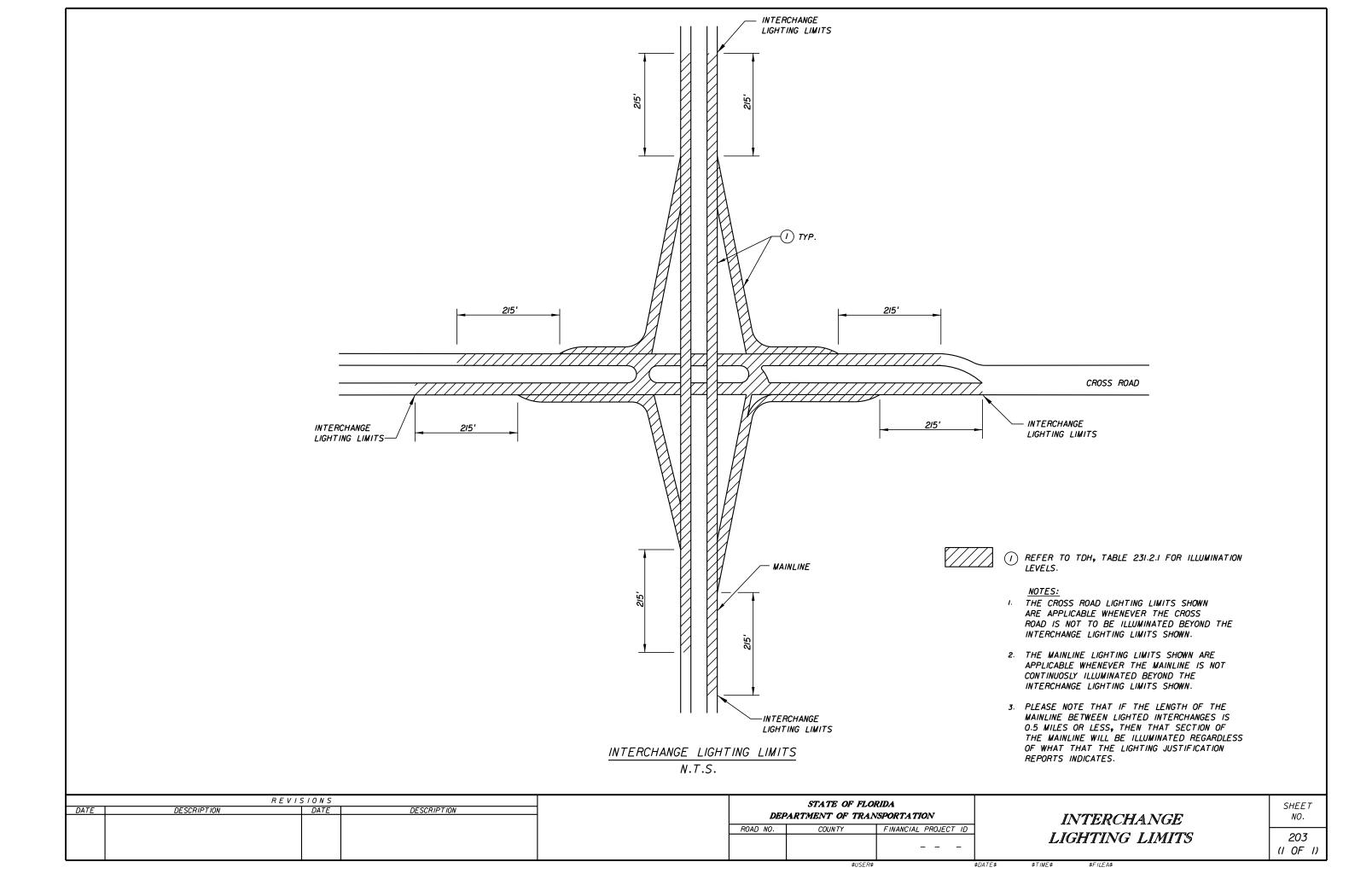


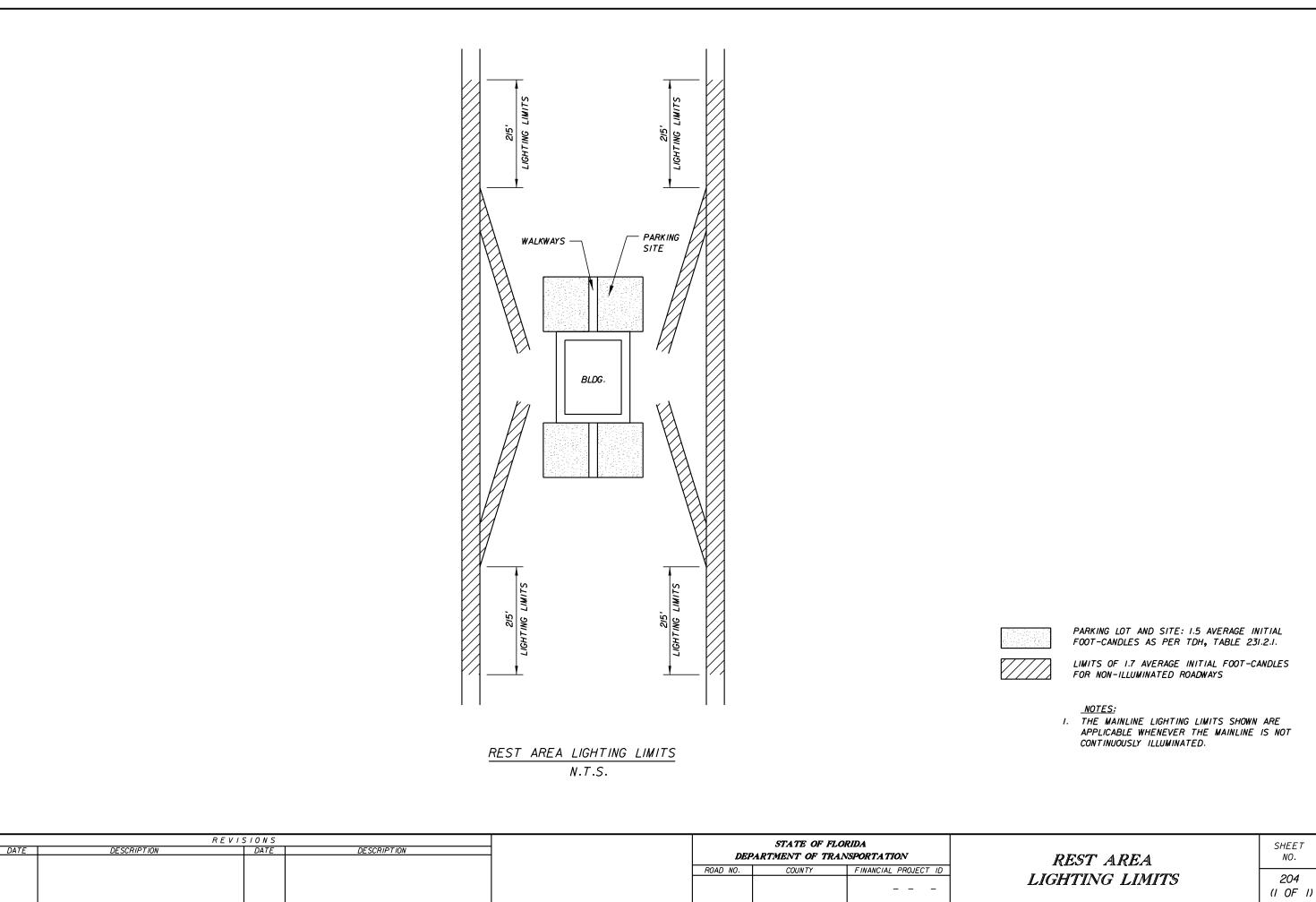
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FLORIDA TURNPIKE SERVICE POINT DETAILS SHEET NO. 202 (2 OF 2)

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