

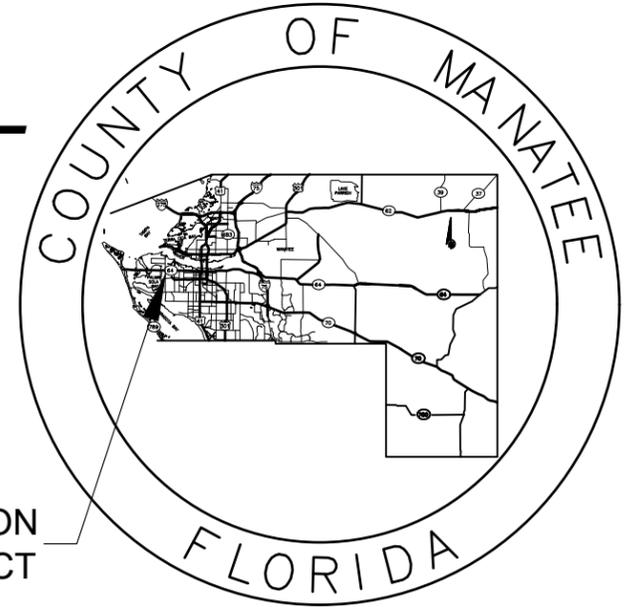
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MANATEE COUNTY PROJECT No: 6108261

*INTERSECTION IMPROVEMENTS AT 75TH STREET WEST
AND MANATEE AVENUE W. (SR 64)*

BRADENTON, FLORIDA

LIGHTING PLANS



LOCATION
OF PROJECT

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	TABULATION OF QUANTITIES
L-4	GENERAL NOTES
L-5	PAY ITEM FOOTNOTES
L-6	LIGHT POLE DATA TABLE AND LEGEND
L-7	LIGHTING PLAN

60% SUBMITTAL
JULY 2023
(NOT FOR CONSTRUCTION)



ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ENLARGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

**LIGHTING PLANS
ENGINEER OF RECORD:**

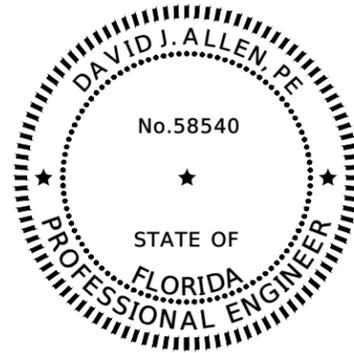
DAVID J. ALLEN, P.E. NO. 58540
STANTEC CONSULTANT SERVICES, INC.
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA, 33578
(813) 664-4500



Know what's below
Call before you dig

COUNTY PROJECT MANAGER:
ANTHONY RUSSO, P.E.

FISCAL YEAR	SHEET NO.
23	L-1



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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

DAVID J. ALLEN, PE
STANTEC CONSULTING SERVICES, INC.
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA, 33578
(813) 664-4500

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING
SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	TABULATION OF QUANTITIES
L-4	GENERAL NOTES
L-5	PAY ITEM FOOTNOTES
L-6	LIGHT POLE DATA TABLE AND LEGEND
L-7	LIGHTING PLAN

REVISIONS				 STANTEC CONSULTING SERVICES, INC.	DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA, 33578 (813) 664-4500	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6108261	INTERSECTION IMPROVEMENTS AT 75TH STREET WEST AND MANATEE AVENUE W. (SR 64)	SHEET NO.
NO.	DESCRIPTION	DATE	BY				SIGNATURE SHEET	L-2
---	---							

LIGHTING GENERAL NOTES

1. SPARE CONDUIT AT PAVEMENT CROSSINGS SHALL BE CAPPED AT BOTH ENDS.
2. THE CONTRACTOR SHALL SUBMIT DESIGN DATA AND SHOP DRAWINGS FOR ALL EQUIPMENT TO CITY OF BRADENTON TRAFFIC OPERATIONS DIVISION FOR REVIEW AND APPROVAL PRIOR TO ORDERING EQUIPMENT.
3. 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. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
4. BEFORE EXCAVATING, IT IS REQUIRED THAT NOTICE BE GIVEN TO SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) AT 1-800-432-4770 A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE WORK BEGINS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.
5. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED WITHIN THE RIGHT-OF-WAY 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 AND APPROVED BY THE ENGINEER PER INDIVIDUAL POLE LOCATION.
6. ALUMINUM POLES, LUMINAIRES, AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", AND SHALL HAVE BEEN TESTED BY FHWA APPROVED METHODS (LATEST EDITION). CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
7. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER NEC REQUIREMENTS.
8. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES, ON OUTSIDE OF ENCLOSURE.
9. IN ACCORDANCE WITH NEC, IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING THE CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE OF EACH POLE.
10. THE CONTRACTOR SHALL NOTIFY FLORIDA POWER AND LIGHT AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE DISTANCE PER OSHA'S CURRENT REQUIREMENTS OF ANY ENERGIZED ELECTRICAL CONDUCTORS. FLORIDA POWER AND LIGHT, AT ITS OPTION, SHALL ASSIST THE CONTRACTOR TO COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITES 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.

TABLE A - MINIMUM CLEARANCE DISTANCES SPECIFIED IN SUBPART CC OF OSHA RULE 1926 (AS THEY PERTAIN TO CRANE/DERRICK OPERATIONS), AND/OR THOSE MINIMUM DISTANCES SPECIFIED IN 29 CFR 1910.333(c)(3)(i)(A) AND (iii)(A) FOR WORK IN PROXIMITY TO POWER LINES NOT COVERED BY THIS SUBPART CC, ARE TO BE MAINTAINED.
11. FINAL OFFSETS FOR THE STREET LIGHT POLES OR ARMS SHALL BE A MINIMUM OF 10 FEET FROM OVERHEAD CONDUCTORS.
12. 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 THE NATIONAL ELECTRICAL CODE OR NATIONAL ELECTRICAL SAFETY CODE FOR CABLE USED.
13. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING. THIS INCLUDES NOTIFYING FLORIDA POWER AND LIGHT ON REVIEWING THE STAKED LOCATIONS WITH RESPECT TO THE OVERHEAD POWER LINES.
14. ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE SPECIFIED IN THE PLANS.
15. DIRECTIONAL BORE OPERATIONS, IF USED, SHALL MEET THE REQUIREMENTS OF FDOT'S UTILITY ACCOMMODATION MANUAL (LATEST EDITION).
16. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHTING POLE FOUNDATION OR CONDUIT RUN, THE CONTRACTOR SHALL HAND DIG THE FIRST FIVE (5) FEET OF THE HOLE FOR THE POLE FOUNDATION AND/OR CONDUIT RUN.
17. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PROVISIONS THAT REQUIRES THE PREPARATION AND APPROVAL OF AN EROSION CONTROL PLAN THAT ADDRESSES PREVENTION, CONTROL AND ABATEMENT OF WATER POLLUTION.
18. THE CONTRACTOR SHALL BE AWARE THAT NO TEST BORINGS WHERE 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.
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 CAN NOT BE BACKFILLED IN THE SAME WORK PERIOD.
20. MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.
21. NO SCREW TYPE BASE FOUNDATIONS SHALL BE USED ON THIS PROJECT.
22. THE CONTRACTOR SHALL NOTIFY THE CITY OF BRADENTON BEFORE ANY TRENCHING OR DIGGING AT SIGNALIZED INTERSECTIONS SO THAT ALL UNDERGROUND LOOP LEAD-INS AND ELECTRICAL CABLES CAN BE IDENTIFIED AND MARKED APPROPRIATELY.

23. THE LIGHTING SYSTEM WILL BE MAINTAINED BY THE CITY OF BRADENTON UPON FINAL ACCEPTANCE. NOTIFY THE PUBLIC WORKS AND UTILITIES (KIM CLAYBACK, PE, 941-708-6300)EXT. 224))) AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO SCHEDULE THE FINAL INSPECTION. UPON PASSING THE FINAL INSPECTION, SEND A WRITTEN REQUEST TO THE FOLLOWING:

KIM CLAYBACK, PE'
INFRASTRUCTURE ENGINEER
CITY OF BRADENTON PUBLIC WORKD AND UTILITIES
1411 9TH STREET WEST
BRADENTON, FLORIDA 34205
EMAIL: KIM.CLAYBACK@CITY OF BRADENTON.COM

REQUESTING TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO THE CITY OF BRADENTON. THE CITY WILL RESPOND WITHIN FIVE (5) WORKING DAYS TO ESTABLISH A TIME TABLE FOR THE TRANSFER OF MAINTENANCE IRRESPONSIBILITY.

24. WHEN CONSTRUCTION IS COMPLETE, A HARD COPY SET OF "AS-BUILT" PLANS IN ADDITION TO AN ELECTRONIC COPY (pdf) IS TO BE SUBMITTED TO:

KIM CLAYBACK, PE'
INFRASTRUCTURE ENGINEER
CITY OF BRADENTON PUBLIC WORKD AND UTILITIES
1411 9TH STREET WEST
BRADENTON, FLORIDA 34205
EMAIL: KIM.CLAYBACK@CITY OF BRADENTON.COM

RECORD DRAWINGS AND INSPECTION FORMS MUST BE DELIVERED TO THE CITY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.

25. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

26. THE WIRES AT THE POLE HANDHOLES AND PULL BOXES SHALL BE LOOPED IN THE POLE AND PULL BOXES WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS AND SPLICES ONE FOOT OUTSIDE OF THE HANDHOLE AND PULL BOXES. THE SLACK IS FOR MAKING CONNECTIONS AND SPLICES ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.

27. LIGHT POLES AND PULL BOXES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DITCHES, WETLANDS, DRIVEWAYS, SURFACE WATER, PAVED SHOULDERS OR PEDESTRIAN RAMPS. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR AN APPROVED OFFSET ADJUSTMENT IF NECESSARY.

28. FOR LOCATIONS WHERE THE LIGHT POLE IS WITHIN OR ADJACENT TO THE PROPOSED SIDEWALK, THE POLE FOUNDATION ELEVATION SHALL MATCH THE PROPOSED SIDEWALK GRADE.

29. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER ASSOCIATED PROPOSED LIGHT POLE COMPLETE PAY ITEM.

30. FLORIDA POWER & LIGHT (FP&L) SHALL FURNISH AND INSTALL THE LUMINAIRE AND BRACKET ARM ON THE EXISTING WOOD POWER POLE AS SPECIFIED ON THE LIGHTING PLAN SHEET.

CONDUIT LEGEND
LC = LIGHTING CONDUIT
SP = SPARE CONDUIT

REVISIONS				 STANTEC CONSULTING SERVICES, INC.	DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA, 33578 (813) 664-4500	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6108261	INTERSECTION IMPROVEMENTS AT 75TH STREET WEST AND MANATEE AVENUE W. (SR 64)	SHEET NO.
NO.	DESCRIPTION	DATE	BY				GENERAL NOTES	L-4
---	---							

LIGHTING PAY ITEM FOOTNOTES

1. **PAY ITEM 630-2-11:**
 THIS PAY ITEM SHALL INCLUDE CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING, AND BACKFILL AS INDICATED IN THE PLANS AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS. THE LINEAR FOOT PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING CUT PAVEMENT, SIDEWALK, SOD, ETC., TO ITS ORIGINAL CONDITION. SOD SHALL BE REPLACED IN LIKE KIND OF THE ADJACENT SURROUNDINGS. THE CONDUIT SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF 2 INCHES. THE SIZE OF CONDUIT SHALL MEET NEC CONDUIT FILL CRITERIA WITH RESPECT TO THE SIZE AND NUMBER OF CONDUCTORS.

 PAYMENT FOR CONDUIT PLACED UNDERGROUND WILL BE BASED ON THE HORIZONTAL LENGTH OF THE TRENCH MEASURED IN A STRAIGHT LINE BETWEEN THE CENTERS OF PULL BOXES, CABINETS, POLES, ETC., IN LINEAR FEET REGARDLESS OF THE LENGTH OR NUMBER OF CONDUITS INSTALLED. NO ADDITIONAL PAYMENT WILL BE MADE FOR MULTIPLE CONDUITS IN THE SAME TRENCH.
2. **PAY ITEM 630-2-12:**
 ALL CONDUITS INSTALLED WITH THE DIRECTIONAL BORE METHOD SHALL BE HDPE TYPE SDR 11 WITH A MINIMUM SIZE OF 2 INCHES. THE SIZE OF CONDUIT SHALL MEET NEC CONDUIT FILL CRITERIA WITH RESPECT TO THE SIZE AND NUMBER OF CONDUCTORS. HDPE CONDUIT AND THE TRANSITION COUPLING SHALL BE UL LISTED. ALL DIRECTIONAL BORE SHALL INCLUDE A 2 INCH SPARE CONDUIT WHERE BOTH ENDS SHALL SWEEP UP INTO A STREET LIGHT PULL BOX AND CAPPED WITH A WATER TIGHT CAP. THE SPARE CONDUIT SHALL BE POPULATED WITH A PULL CORD.

 PAYMENT FOR CONDUIT PLACED UNDERGROUND WILL BE BASED ON THE HORIZONTAL LENGTH OF THE BORE MEASURED IN A STRAIGHT LINE BETWEEN THE CENTERS OF PULL BOXES, CABINETS, POLES, ETC., IN LINEAR FEET REGARDLESS OF THE LENGTH OR NUMBER OF CONDUITS INSTALLED. NO ADDITIONAL PAYMENT WILL BE MADE FOR MULTIPLE CONDUITS IN THE SAME BORE.
3. **PAY ITEM 635-2-11:**
 FDOT APPROVED STREET LIGHT COMPOSITE PULL BOXES SHALL BE NOMINAL 24 INCHES LONG BY 13 INCHES WIDE AND A MINIMUM 18 INCHES DEEP WITH HEAVY DUTY NON-METALLIC LIDS. GROUNDING IS NOT REQUIRED FOR THE PULL BOX. LIDS SHALL HAVE A PERMANENT "STREET LIGHTING" LOGO STAMPED IN RAISED LETTERS. INCLUDED IN THIS COST IS THE CONCRETE APRON PER FDOT STANDARD PLANS INDEX 715-001. THIS PAY ITEM SHALL ALSO INCLUDE THE COST OF MANATEE COUNTY APPROVED SECURITY BOLTS FOR THE LIDS. THE BOLTS SHALL BE INSTALLED UPON FINAL ACCEPTANCE.
4. **PAY ITEMS 715-1-12:**
 THIS PAY ITEM SHALL INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS. PAYMENT SHALL BE MADE BASED ON LINEAR FOOT OF SINGLE CONDUCTOR.
5. **PAY ITEM 715-61-252:**
 THIS PAY ITEM SHALL INCLUDES A STANDARD FDOT STYLE LIGHT POLE WITH 35-FOOT MOUNTING HEIGHT, 15-FOOT BRACKET ARM, LED LUMINAIRE, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, VIBRATION DAMPENING DEVICE, FRANGIBLE BREAKAWAY TRANSFORMER TYPE BASE AND FOUNDATION. THE COST OF BREAK-AWAY WATERTIGHT, IN-LINE FUSE HOLDERS, THE STRAIN RELIEF AND THE SURGE ARRESTOR SHALL BE PAID FOR UNDER PAY ITEM 715-500-1.

 THE LUMINAIRE SHALL BE THE ROADFOCUS LED LUMINAIRE AS SPECIFIED ON THE LIGHTING DATA TABLE.

 THE COST OF THE MAINTENANCE SLAB AS SPECIFIED IN THE FDOT STANDARD PLANS INDEX 715-001 IS INCLUDED UNDER THIS PAY ITEM. THE ORIENTATION OF THE MAINTENANCE SLAB IN THE PLANS IS SCHEMATIC AND MAYBE ADJUSTED BY THE CONTRACTOR UNDER APPROVAL OF THE ENGINEER. IF THE SLAB CONFLICTS WITH THE PROPOSED SIDEWALK OR RIGHT-OF-WAY LINE, THE SLAB SHALL BE MODIFIED BY ENDING THE SLAB ADJACENT TO THE EDGE OF THE SIDEWALK OR AT THE RIGHT-OF-WAY LINE. THERE SHOULD BE NO GAP BETWEEN THE SLAB AND THE EDGE OF SIDEWALK. THE SLAB ELEVATION SHALL MATCH THE BACK OF THE SIDEWALK ELEVATION.
6. **PAY ITEM 715-500-1:**
 THIS PAY ITEM INCLUDES THE COST OF BREAKAWAY WATERTIGHT, IN-LINE FUSE HOLDERS. THE STRAIN RELIEF, AND THE SURGE ARRESTOR PER STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS INDEX 715-001.

REVISIONS				 Stantec <small>STANTEC CONSULTING SERVICES, INC.</small>	<small>DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA, 33578 (813) 664-4500</small>	 MANATEE COUNTY PUBLIC WORKS <small>COUNTY PROJECT NO: 6108261</small>	INTERSECTION IMPROVEMENTS AT 75TH STREET WEST AND MANATEE AVENUE W. (SR 64)	SHEET NO.
NO.	DESCRIPTION	DATE	BY				PAY ITEM FOOTNOTES	L-5
----	----							

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LIGHT POLE DATA TABLE

POLE NO.	CKT.	STATION & OFFSET	ARM LEGNTH	VOLTAGE	DIST. TYPE	COLOR TEMP	LUMINAIRE WATTAGE	MOUNTING HEIGHT
1	EXIST. *	323+80, 51.5' LT	15'	480	III	4000K	190	35'

* THE PROPOSED LIGHT POLE SHALL BRANCH OF THE EXISTING SR 54 LIGHTING CIRCUIT.

FDOT INTERSECTION LIGHTING DESIGN CRITERIA

AVERAGE HORIZONTAL INTENSITY 3.0 FOOT CANDLES
(1.5 FOOT CANDLES MINIMUM)
UNIFORMITY RATIO AVG./MIN. 4:1 OR LESS
MAX./MIN. 10:1 OR LESS
AVERAGE VERTICAL INTENSITY 1.5 FOOT CANDLES
(1.2 FOOT CANDLES MINIMUM)
WIND SPEED 140 MPH

LEGEND

SYMBOLS



PROPOSED FDOT LIGHT POLE WITH A 190W ROADFOCUS LARGE LED LUMINAIRE WITH 4000K COLOR TEMPERATURE AND DISTRIBUTION TYPE III. LUMINAIRE IS TO BE WIRED FOR 480 VOLT OPERATION. THE PHOTOMETRIC CURVE IS RFL-190W112LED4K-G2-4.IES. LIGHT POLE MOUNTING HEIGHT IS 35 FEET WITH 15-FOOT ARM. LIGHT POLE INCLUDES THE COST OF A MAINTENANCE PAD. PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM (PCDS) TO BE PAID FOR SEPARATELY.



FPL TO FURNISH AND INSTALL A 12-FOOT BRACKET ARM AND THE FPL ROADWAY 17,000 LUMEN 130 WATT ARCHEON LED LUMINAIRE WITH DISTRIBUTION TYPE III AND 4000K COLOR TEMPERATURE. PHOTOMETRICS FILE USED FOR ANALYSIS IS ARCH-M-PA2-130-740-U-T3.IES. SEE THE LIGHTING PLAN SHEET FOR MORE INFORMATION.



EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN AS IS



PROPOSED PULL BOX. FOR SPECIFICATIONS SEE SECTION 635 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

REVISIONS			
NO.	DESCRIPTION	DATE	BY



DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA, 33578
(813) 664-4500



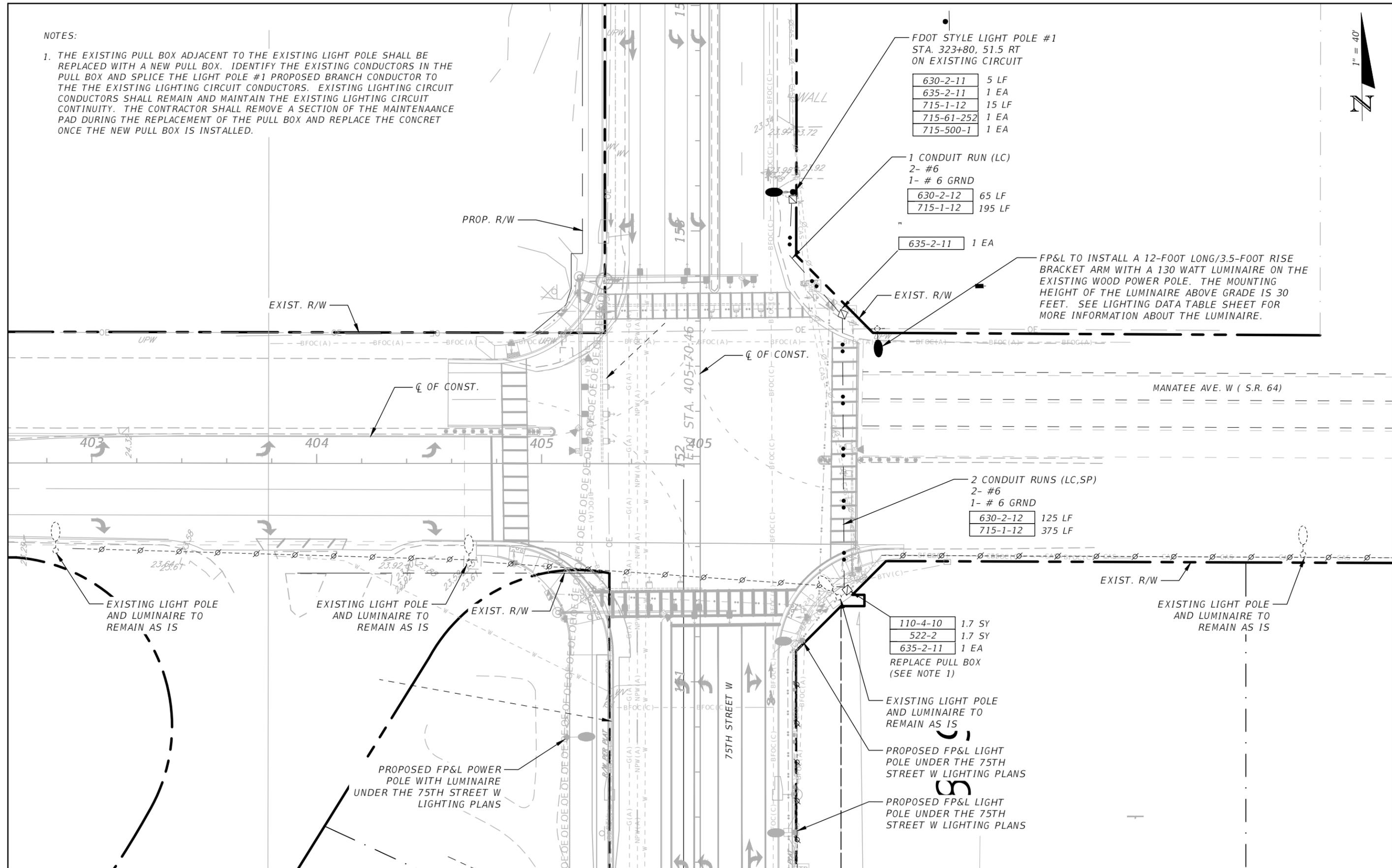
MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6108261

INTERSECTION IMPROVEMENTS AT 75TH STREET WEST
AND MANATEE AVENUE W. (SR 64)
**LIGHT POLE DATA TABLE AND
LEGEND**

SHEET
NO.
L-6

NOTES:

1. THE EXISTING PULL BOX ADJACENT TO THE EXISTING LIGHT POLE SHALL BE REPLACED WITH A NEW PULL BOX. IDENTIFY THE EXISTING CONDUCTORS IN THE PULL BOX AND SPLICE THE LIGHT POLE #1 PROPOSED BRANCH CONDUCTOR TO THE THE EXISTING LIGHTING CIRCUIT CONDUCTORS. EXISTING LIGHTING CIRCUIT CONDUCTORS SHALL REMAIN AND MAINTAIN THE EXISTING LIGHTING CIRCUIT CONTINUITY. THE CONTRACTOR SHALL REMOVE A SECTION OF THE MAINTENANCE PAD DURING THE REPLACEMENT OF THE PULL BOX AND REPLACE THE CONCRET ONCE THE NEW PULL BOX IS INSTALLED.



FDOT STYLE LIGHT POLE #1
STA. 323+80, 51.5 RT
ON EXISTING CIRCUIT

630-2-11	5 LF
635-2-11	1 EA
715-1-12	15 LF
715-61-252	1 EA
715-500-1	1 EA

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

630-2-12	65 LF
715-1-12	195 LF

635-2-11	1 EA
----------	------

FP&L TO INSTALL A 12-FOOT LONG/3.5-FOOT RISE BRACKET ARM WITH A 130 WATT LUMINAIRE ON THE EXISTING WOOD POWER POLE. THE MOUNTING HEIGHT OF THE LUMINAIRE ABOVE GRADE IS 30 FEET. SEE LIGHTING DATA TABLE SHEET FOR MORE INFORMATION ABOUT THE LUMINAIRE.

2 CONDUIT RUNS (LC,SP)
2- #6
1- # 6 GRND

630-2-12	125 LF
715-1-12	375 LF

110-4-10	1.7 SY
522-2	1.7 SY
635-2-11	1 EA

REPLACE PULL BOX
(SEE NOTE 1)

EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN AS IS

EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN AS IS

EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN AS IS

PROPOSED FP&L POWER POLE WITH LUMINAIRE UNDER THE 75TH STREET W LIGHTING PLANS

EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN AS IS

PROPOSED FP&L LIGHT POLE UNDER THE 75TH STREET W LIGHTING PLANS

PROPOSED FP&L LIGHT POLE UNDER THE 75TH STREET W LIGHTING PLANS

REVISIONS			
NO.	DESCRIPTION	DATE	BY



DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA, 33578
(813) 664-4500



MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6108261

INTERSECTION IMPROVEMENTS AT 75TH STREET WEST AND MANATEE AVENUE W. (SR 64)

LIGHTING PLAN

SHEET NO.
L-7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.