

VILLAGE OF ROYAL PALM BEACH, FLORIDA

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PROJECT NAME: COMMONS PARK PATHWAY LIGHTING  
PROJECT NUMBER: PR1903

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**ADDENDUM NUMBER: FIVE**

DATE OF ISSUANCE: September 28, 2021

TO: Prospective Bidders

THIS ADDENDUM NO. **Five** INCLUDES THE FOLLOWING:

1. Bid Documents
  - a. Delete the following pages: INV-5, PG-112, PG-113
  - b. Add the following pages: INV-5-ADD-5, PG-112-ADD-5, PG-113-ADD-5
  
2. Plans
  - a. Delete the following plan sheets: 02, 03, E-2 through E-17, E-19 through E-22, E-24, E-25
  - b. Add the following plan sheets: 02-ADD-5, 03-ADD-5, E-2-ADD-5 through E-17-ADD-5, E-19-ADD-5 through E-22-ADD-5, E-24-ADD-5, E-25-ADD-5

APPROVED BY: Christopher A. Marsh, P.E., Village Engineer

ACKNOWLEDGMENT OF RECEIPT: \_\_\_\_\_

Bidder

ADD-5

## INVITATION TO BID

Sealed bids will be received by the Village of Royal Palm Beach, Florida at the Office of the Village Clerk, located at 1050 Royal Palm Beach Boulevard, Royal Palm Beach, Florida 33411, for subject project 3:00 p.m. local time Wednesday, October 6, 2021, then opened publicly at that time.

**PROJECT: Commons Park Pathway Lighting**

**Project NO: PR1903**

**Project Description:**

The project consists of installing fifty-five (55) concrete pedestrian light poles with LED fixtures associated service points, conduit, and wiring along existing pathways. The project is located in Royal Palm Beach Commons Park at 11600 Poinciana Blvd, Royal Palm Beach, FL 33411.

Budget: \$ 625,000

The Contract Documents will be open to inspection at the Clerk's office. Contract documents may be purchased after noon on Friday, August 13, 2021 from the Village of Royal Palm Beach, ATTN: Village Clerk, 1050 Royal Palm Beach Boulevard, Royal Palm Beach, Florida, 33411 at the following prices, which are non-refundable:

Complete Set: 50.00                      Packaging & Mailing Charges / Set: 75.00  
(Drawings & Project Manual)

Project plans and documents may be requested free of charge at: [www.royalpalmbeach.com/rfps](http://www.royalpalmbeach.com/rfps)

Bids must be accompanied by a Bid Security in the form of a certified bank check made payable to the Owner, or a Bid Bond. The amount of the security shall not be less than five (5) percent of the Bidder's total price indicated in Bid Form.

In accordance with F.S. 287.133 (2) (a), persons and affiliates who have been placed on the convicted vendor list may not submit bids, contract with, or perform work (as a contractor, supplier, subcontractor or consultant) with any public entity (i.e. Village of Royal Palm Beach) in excess of Ten Thousand Dollars (or such other amount as may be hereafter established by the Florida Division of Purchasing in accordance with F.S. 287.017) for a period of 36 months from the date of being placed on the convicted vendor list.

A pre-bid conference will be held on Wednesday, August 25, 2021 at 3:00 p.m. via GoToWebinar  
Please join the meeting from your computer, tablet or smartphone.

Registration URL <https://attendee.gotowebinar.com/register/973359577955106571>  
Webinar ID 896-896-883

If you prefer to use your phone, you must select "Use Telephone" after joining the webinar and call in using the numbers below.

United States: +1 (415) 930-5321

Access Code: 893-055-642

Audio PIN: Shown after joining the webinar

The pre-bid conference is **not mandatory**.

The OWNER reserves the right to reject any or all Bids, to waive informalities, and to re-advertise.

Publish:                      Palm Beach Post:                      Monday, August 9, 2021

INV-5-ADD-5

Addendum 5  
9/28/2021  
Revised Bid Opening Date

- B. Contractor shall not obstruct or park along this road or any roadways or parking areas.
- C. Time restrictions for performing work: All work shall be performed during daylight working hours, Monday through Friday, 7:00 AM to 6:00 PM on weekdays. No lane closures shall be permitted outside the hours of 9:30 AM to 3:30 PM. The Contractor may extend working hours only if approved in writing by the Owner.
- D. The Contractor will be responsible for compensation of a Village Inspector at an overtime rate of pay for construction activities approved in the previous paragraph between the hours of 6:00PM and 7:00AM or on weekends, which in the opinion of the Village requires the attendance of a Village Inspector.
- E. The main entrance to the park is closed for food distribution operations on Wednesday mornings until 11:30 a.m., and access in to or out of the park via Poinciana Blvd. will be not permitted. Two alternative entrances located at 109 Heron Pkwy. and 179 Grouse Ln. may be utilized during this time only. Please be advised, these entrances pass through residential areas, so adequate turning radii for large vehicles will not be available.
- F. All work zones shall be appropriately closed off after work on Fridays, as the public will scattered throughout the park for events on Friday evenings.

#### **1.06 OWNER-FURNISHED PRODUCTS**

- A. Products furnished to the site and paid for by Owner: None.
- B. Owner's Responsibilities:
  - 1. Arrange for and deliver Owner-reviewed shop drawings, product data, and samples to Contractor.
  - 2. On delivery, inspect products jointly with Contractor.
- C. Contractor's Responsibilities:
  - 1. Review Owner-reviewed shop drawings, product data, and samples.
  - 2. Receive and unload products at site; inspect for completeness or damage jointly with Owner.
  - 3. Handle, store, install, and finish products.
  - 4. Repair or replace items damaged after receipt.
  - 5. Submit claims for transportation damage and replace damaged, defective, or deficient items.
  - 6. Submit claims for transportation damage and replace damaged, defective, or deficient items.
  - 7. Arrange and pay for product delivery to site.

PR1903

PG-112-ADD-5

Addendum 5

9/28/2021

Revised Item 1.05-E and added 1.05-F

## **1.07 EXISTING UTILITIES / MAIL SERVICE**

- A. All existing utilities and mail delivery must be maintained in service during construction.
- B. Utilities to be abandoned shall not be abandoned until new facilities have been completed, tested, disinfected if required, and cleared for use by Palm Beach County Utilities, Engineer, and Health Department.
- C. Connections to existing utilities must be witnessed by Palm Beach County Utilities. Only Palm Beach County Utilities shall operate valves on existing water and force mains.
- D. Contractor to coordinate tie-in of existing active utilities with Palm Beach County Utilities.
- E. Meet the Requirements noted in Section 101 Mobilization found in the Roadway Technical Specifications

**END OF SECTION**

PR1903

PG-113-ADD-5

Addendum 5

9/28/2021

No change in content. The text was pushed down due to the revisions of the previous page.



DATE: SEPT 2021  
SHEET: 02 OF 03

DESIGNED BY: AD  
DRAWN BY: AD  
REVIEWED BY: CM

By	Date	Revision Description

COMMONS PARK PATHWAY LIGHTING  
PR 1903  
GENERAL NOTES

Village of Royal Palm Beach  
Planning & Engineering  
11900 Royal Palm Beach Boulevard  
Royal Palm Beach, FL 33411-7295  
Phone: (561) 251-1300

SEAL

FORMATTED FOR 12" x 18"  
X:\CAPITAL PROJECTS\PR1806\_PRR1720\_PRR1903\_B08\_MARCELLO\_FIELDS\_2&3\_COMMON LIGHTING\COMMONSPATHWAYLIGHTING\PRE-BID DOCUMENTS\BID PACKAGE\DRAWINGS\03\_GENERAL NOTES\_PRR1903.DWG 9/22/2021

**I. GENERAL NOTES**

- A. THESE GENERAL NOTES APPLY TO ALL WORK WITHIN THIS SET OF DRAWINGS.
- B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND PRIOR TO THE PRE-CONSTRUCTION CONFERENCE AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL PERMIT CONDITIONS. PERMITS APPLICABLE TO THIS PROJECT ARE AS FOLLOWS:
  - B.A. THE VILLAGE OF ROYAL PALM BEACH, OBTAINED BY THE CONTRACTOR, FEES WAIVED
- C. ALL WORK FOR THIS PROJECT WILL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.
- D. CONTRACTOR IS ADVISED THAT THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT ALL OPERATIONS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO OBTAIN THE SAME. A COPY SHALL BE SENT TO THE VILLAGE OF ROYAL PALM BEACH (ATTENTION: ENGINEERING CONSTRUCTION COORDINATOR)
- E. FLORIDA LAW (FS 553.851 PROTECTION OF UNDERGROUND PIPELINES) MANDATES THAT: "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPE LINES IN THE AREA OF PROPOSED EXCAVATION". THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO THE EXCAVATION EXCLUDING HOLIDAYS, SATURDAYS OR SUNDAYS.
- F. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS. INCLUDING BUT NOT LIMITED TO WATER, SANITARY SEWER, POWER, NATURAL GAS, TELEPHONE AND CABLE TV COMPANIES.
- G. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
- H. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW OVERHEAD POWER LINES PRIOR TO WORKING IN THE VICINITY OF THE POWER LINES.
- I. ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE VILLAGE, INVOLVED UTILITY COMPANIES, PROJECT ENGINEER, REGULATORY AGENCIES.
- J. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER, VILLAGE OF ROYAL PALM BEACH IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER, VILLAGE OF ROYAL PALM BEACH.
- K. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND THE FIELD CONDITIONS PRIOR TO CONSTRUCTION IN THE AREA OF THE CONFLICT.
- L. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.
- M. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) AND THE FDOT ROADWAY TRAFFIC DESIGN STANDARDS, BOTH BEING OF THE CURRENT EDITION AT THE TIME OF BIDDING. ALL FDOT STANDARD PLANS ARE INCORPORATED AS REFERENCES HEREIN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETE COPIES OF THE LATEST EDITION OF THE INDEXES.
- N. CONTRACTOR SHALL PROTECT ADJACENT WATER BODIES, WETLANDS AND PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES IN ACCORDANCE WITH FDEP REQUIREMENTS.
- O. CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN ON THE PLAN OR DESIGNATED IN THE FIELD.
- P. IF ANY KNOWN OR SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL IS FOUND ON THE PROJECT OR ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL IMMEDIATELY CEASE OPERATIONS IN THAT AREA, NOTIFY THE VILLAGE ENGINEER CHRIS MARSH AT 561-790-5161 AND PROTECT THE IMMEDIATE AREA OF SUSPECT CONTAMINATED OR HAZARDOUS MATERIALS FROM FURTHER ACCESS WHO SHALL DIRECT CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECT HAZARDOUS MATERIAL FROM FURTHER ACCESS. PROJECT ENGINEER IS TO NOTIFY THE PROPER REGULATORY AUTHORITY OF THE DISCOVERY. THE PROPER REGULATORY AUTHORITY WILL ADVISE/DIRECT VILLAGE ENGINEER IN THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDICATION OF THE MATERIAL IN QUESTION AS NEEDED. CONTRACTOR SHALL NOT RETURN TO THE AREA OF SUSPECTED CONTAMINATION UNTIL APPROVAL IS PROVIDED BY PROJECT ENGINEER, THE REGULATORY AUTHORITY WILL ADVISE PROJECT ENGINEER IN THESE MATTERS.
- Q. CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM VILLAGE ENGINEER. CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO THE DISTRICT CONTAMINATION IMPACT COORDINATOR (DCIC). CONTRACTOR SHALL PROVIDE THE DCIC WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. VILLAGE ENGINEER SHALL COORDINATE WITH THE DCIC PRIOR TO ISSUING WRITTEN APPROVAL TO CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERTY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE AN MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.

**II. SURVEY DATA**

- A. THE CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS TO AVOID DAMAGES TO SURVEY MARKERS DURING CONSTRUCTION. ANY SURVEY MARKERS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- B. BENCHMARK LOCATION AND ELEVATION ARE REPRESENTED BY SURVEYOR AT THE TIME OF SURVEY, CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT THE TIME OF CONSTRUCTION.

**III. PRE CONSTRUCTION RESPONSIBILITIES**

- A. UPON NOTICE OF AWARD, THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE INCLUDING ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE ENGINEER, VILLAGE OF ROYAL PALM BEACH.
- B. THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE ONE CALL OF FLORIDA, INC." (1-800-432-4770) AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
- C. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE PROJECT AREA.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH

IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

- E. CONTRACTOR TO PERFORM SOFT DIGGING, COST TO BE INCLUDED IN APPLICABLE PAY ITEM.
- F. IF, UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT THAN THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- G. THE LOCATIONS OF EXISTING UTILITIES, STORM DRAINAGE, AND IRRIGATION SHOWN ON THE PLANS ARE APPROXIMATE, HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE, AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE EXISTING UTILITIES, STORM DRAINAGE, OR IRRIGATION SHOWN ON PLANS OR FOR ANY EXISTING UTILITIES, STORM DRAINAGE, OR IRRIGATION NOT SHOWN ON PLANS. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR THE FIELD LOCATIONS AND FOR ANY RELOCATION OF THE VARIOUS EXISTING UTILITIES, STORM DRAINAGE, OR IRRIGATION WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE THE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR FOR THE RELOCATION OF UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- H. CONTRACTOR SHALL COORDINATE AND VERIFY ALL ADA ACCESSIBLE ROUTES AND GRADES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ISSUES THAT ARISE WITH THE PROPOSED GRADE OR PROPOSED PAVEMENT SLOPES.
- I. CONTRACTOR SHALL MAINTAIN TEMPORARY PEDESTRIAN ACCESS IN COMPLIANCE WITH THE LATEST A.D.A. REQUIREMENTS ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES.

**IV. SHOP DRAWINGS**

- A. PRIOR TO ANY CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD. SEE SECTION 01300 SUBMITTALS AND PROGRESS SCHEDULES FOR SUBMITTAL FORMAT.
- B. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

**V. CONSTRUCTION SAFETY**

- A. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL SHALL BE STRICTLY OBSERVED.
- B. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO CLOSE ALL TRENCHES AND EXCAVATIONS AT THE END OF EACH WORK DAY. NO EXCAVATIONS SHALL BE LEFT OPEN OVER THE WEEKENDS. ANY EXCAVATIONS TO BE LEFT OPEN ON A WEEK NIGHT SHALL BE ENCLOSED WITH ORANGE SAFETY FENCE PER DETAIL ON SHEET 03, WITH STEEL POSTS SPACED NO MORE THAN 6 FEET APART.

**VI. TRENCH SAFETY**

- A. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
- B. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID
  - A REFERENCE TO THEPS
  - TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
  - WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT EXCAVATION WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
  - A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

**VII. TEMPORARY FACILITIES**

- A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
- B. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE MUTCD AND FDOT DESIGN STANDARDS, BOTH BEING OF THE CURRENT EDITION AT THE TIME OF BIDDING. CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN INDICATING PHASE SEQUENCE OF CONSTRUCTION.
- C. ALL EXISTING UTILITIES, DRIVEWAY INGRESS/EGRESS, MAIL SERVICE, AND TRASH COLLECTION SHALL BE MAINTAINED IN SERVICE AT ALL TIMES.
- D. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS AND WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- E. ALL DROP OFF HAZARDS CREATED BY CONSTRUCTION THAT ARE ADJACENT TO PEDESTRIAN PATHWAYS SHALL BE BACKFILLED OR PROTECTED WITH SOLID BARRIERS AT THE END OF THE DAY'S WORK OPERATION.

**VIII. PROJECT CLOSE OUT**

- A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL AND TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
- B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OR ANY OTHER PUBLIC AGENCY, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY ITS WORK, EQUIPMENT, EMPLOYEES OR SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED IMMEDIATELY PRIOR TO BEGINNING OF OPERATIONS. THE CONTRACTOR SHALL DO ALL NECESSARY HIGHWAY, DRIVEWAY, WALK, IRRIGATION, OR LANDSCAPING WORK TO SATISFY ANY RESTORATION REQUIREMENTS AT HER/HIS EXPENSE. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
- C. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS OR ELSEWHERE AS A RESULT OF CONTRACTOR OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION AT THE EXPENSE OF THE CONTRACTOR.
- D. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF THE WORK ITEMS COMPLETED.
- E. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING LIMEROCK BASE MATERIAL.
- F. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR, AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
- G. REFER TO PROJECT GENERAL REQUIREMENTS SECTION 01720-PROJECT RECORD DOCUMENTS OF THE CONTRACT DOCUMENTS FOR AS BUILT REQUIREMENTS.

**IX. EARTHWORK**

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE EXISTING SITE CONDITIONS DURING THE BID PREPARATION TO DETERMINE IF ANY OFFSITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
- B. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE EXISTING SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC MATERIAL, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE AND MATERIALS TO BE DISPOSED OF OFFSITE. ANY DELAY, INCONVENIENCE OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

**XI. PAVING GRADING AND DRAINAGE NOTES**

- A. CONTRACTOR ACCEPTS SITE AS IS. ANY REPAIRS TO EXISTING SITE ELEMENTS INCLUDING PAVEMENT, SIDEWALKS, CURBING, DRAINAGE, SANITARY SEWER, WATER, SIGNING AND STRIPING, SHALL BE INCLUDED IN THE BID PRICE.
- B. ALL UTILITIES SHALL BE ADJUSTED TO NEW FINISHED GRADE AND PROPERLY SET TO PAVEMENT SLOPES, AS REQUIRED BY PLANS, SPECIFICATIONS, AND CURRENT ADA REQUIREMENTS.
- C. GRADING FROM PROPOSED TO EXISTING CONDITIONS SHALL NOT BE STEEPER THAN 6H:1V NOR FLATTER THAN 20H:1V, ALL SWALES AND SLOPES SHALL BE SODDED AFTER GRADING.
- D. CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PAVEMENT TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE A SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. SHOULD AREAS OF POOR DRAINAGE BE OBSERVED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO THE PLACEMENT OF CURBS AND PAVEMENT COURSES SO THAT THE RECOMMENDATIONS FOR CORRECTION CAN BE MADE.
- E. PAVEMENT CROSS SLOPES OF ADA ROUTES AND PUBLIC CURB RAMPS SHALL NOT EXCEED 2%.
- F. PAVEMENT RUNNING SLOPES OF ADA ROUTES SHALL NOT EXCEED 5%, EXCEPT AT A PUBLIC CURB RAMP PER FDOT STANDARD PLANS INDEX 522-002.
- G. ALL PEDESTRIAN ACCESS RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST FDOT STANDARD PLANS INDEX 522-002.
- H. ALL OFFSITE DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER.
- I. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF ANY KIND, INCLUDING IRRIGATION AND ELECTRICAL CONDUITS, THAT WILL REMAIN UNDER THE PROPOSED PAVEMENT OR WITHIN 10 FEET OF ITS EDGES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE BASE.

STAGING AREA AND ALTERNATIVE ENTRANCES FOR WEDNESDAY MORNINGS  
11600 POINCIANA BLVD., ROYAL PALM BEACH, FL 33411

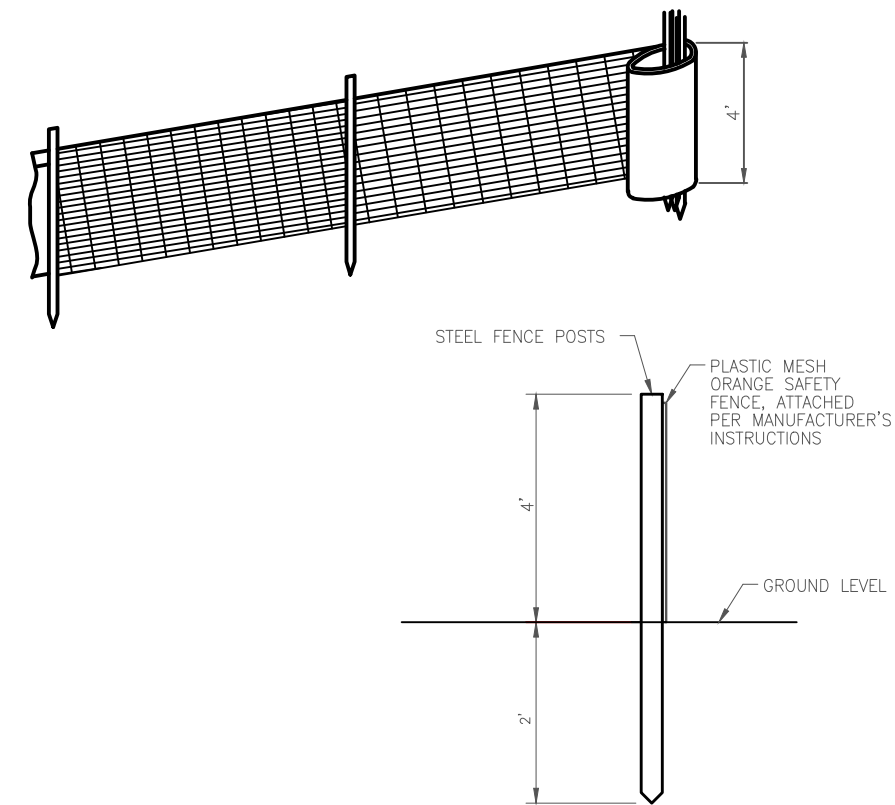
Addendum 5  
9/28/2021

FORMATTED FOR 12" x 18"  
DATE: SEPT 2021  
SHEET: 03 OF 03  
DESIGNED BY: AD  
DRAWN BY: AD  
REVIEWED BY: CM  
COMMONS PARK PATHWAY LIGHTING  
PR 1903  
STAGING AREA  
Village of Royal Palm Beach  
Planning & Engineering  
11600 Royal Palm Beach Boulevard  
Royal Palm Beach, FL 33411-7295  
Phone: (561) 251-1311  
X:\CAPITAL PROJECTS\PR1806\_PRT1720\_PRT1903\_BOB\_MARCELLO\_FIELDS\_2&3\_COMMON5\_LIGHTING\COMMON5PATHWAYLIGHTING\PRE-BID DOCUMENTS\BID PACKAGE\2\DRAWINGS\STAGING AREA\_PRT1903.DWG 9/22/2021



GENERAL NOTES:

1. THE CONTRACTOR SHALL CREATE A CONTINUOUS VIDEO RECORD OF STAGING AREA CONDITIONS BOTH BEFORE AND AFTER CONSTRUCTION, IN ACCORDANCE WITH TECHNICAL SPECIFICATION 101: MOBILIZATION.
2. CONTRACTOR IS RESPONSIBLE FOR RESTORING STAGING AREA TO PRE-CONSTRUCTION CONDITION.
3. CONTRACTOR SHALL SURROUND THE ENTIRE STAGING AREA WITH ORANGE SAFETY FENCE, PER DETAIL BELOW.
4. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY COVERED METAL DUMPSTER PROVIDED BY WASTE PRO. THE DUMPSTER SHALL MEET ALL PALM BEACH COUNTY AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED AS NEEDED SO THERE IS NO OVERFLOW. TRASH SHALL BE HAULED TO AN AUTHORIZED/PERMITTED LANDFILL FACILITY. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE OF WASTE DISPOSAL.
5. ALL HAZARDOUS WASTE MATERIAL SHALL BE DISPOSED OF IN A MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES.
6. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF TWICE PER WEEK BY THE LICENSED SANITARY COMPANY, AS REQUIRED BY LOCAL REGULATIONS.
7. ALL ON-SITE VEHICLES AND TANKS SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDINGLY TO THE MANUFACTURER'S RECOMMENDATIONS. ALL ABOVE GROUND TANKS FOR FUELING SHALL BE SECONDARILY CONTAINED.
8. ANY PESTICIDE AND HERBICIDE USAGE SHALL BE BY STATE LICENSED APPLICATORS.
9. FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNT RECOMMENDED BY THE MANUFACTURER. IF STORED ON-SITE, COVERED STORAGE SHALL BE PROVIDED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZERS SHALL BE TRANSFERRED TO A SEALABLE CONTAINER TO AVOID SPILLS.
10. ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE OR LOCAL REGULATIONS.
11. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN, AS REQUIRED BY STATE LAW.
12. WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE ACCUMULATED SEDIMENT SHALL BE REMOVED FROM IN AND AROUND ALL INLETS AND CATCH BASINS.
13. NON-STORMWATER DISCHARGES SHALL NOT CAUSE EROSION OR CREATE TURBIDITY WITHIN THE RECEIVING BODY AND SHALL BE IN COMPLIANCE WITH REGULATORY REQUIREMENTS. THESE DISCHARGES MAY INCLUDE WATER LINE FLUSHING, FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, DUST CONTROL, IRRIGATION DRAINAGE AND AIR CONDITIONING CONDENSATE AND WATER USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES (WASTEWATER FROM A MORE THOROUGH CLEANING, INCLUDING THE USE OF DETERGENTS OR OTHER CLEANERS IS NOT PERMITTED)
14. ALL EXISTING TREES AND LANDSCAPING SHALL BE PROTECTED.
15. ALL ACTIVITIES WITHIN THE STAGING AREA ARE REQUIRED TO COMPLY WITH NPDES REQUIREMENTS.



NOTES:

1. THE CONTRACTOR SHALL INSPECT AND REPAIR THE SAFETY FENCE AT THE BEGINNING AND END OF EACH WORK DAY.

ORANGE SAFETY FENCE DETAIL  
N.T.S.

Addendum 5 Revisions:  
Alternative entrances for Wednesday mornings have been added.



DATE: AUGUST 2021  
SHEET: E-2 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN  
LARRY M. SMITH, PE FL. REG 45997

Village of Royal Palm Beach  
Planning & Engineering  
10000 Royal Palm Beach Blvd., Suite 312  
West Palm Beach, FL 33411  
Phone: (561) 616-3911 Fax: (561) 616-3912  
www.smithengineeringconsultants.com

**KEY NOTES**

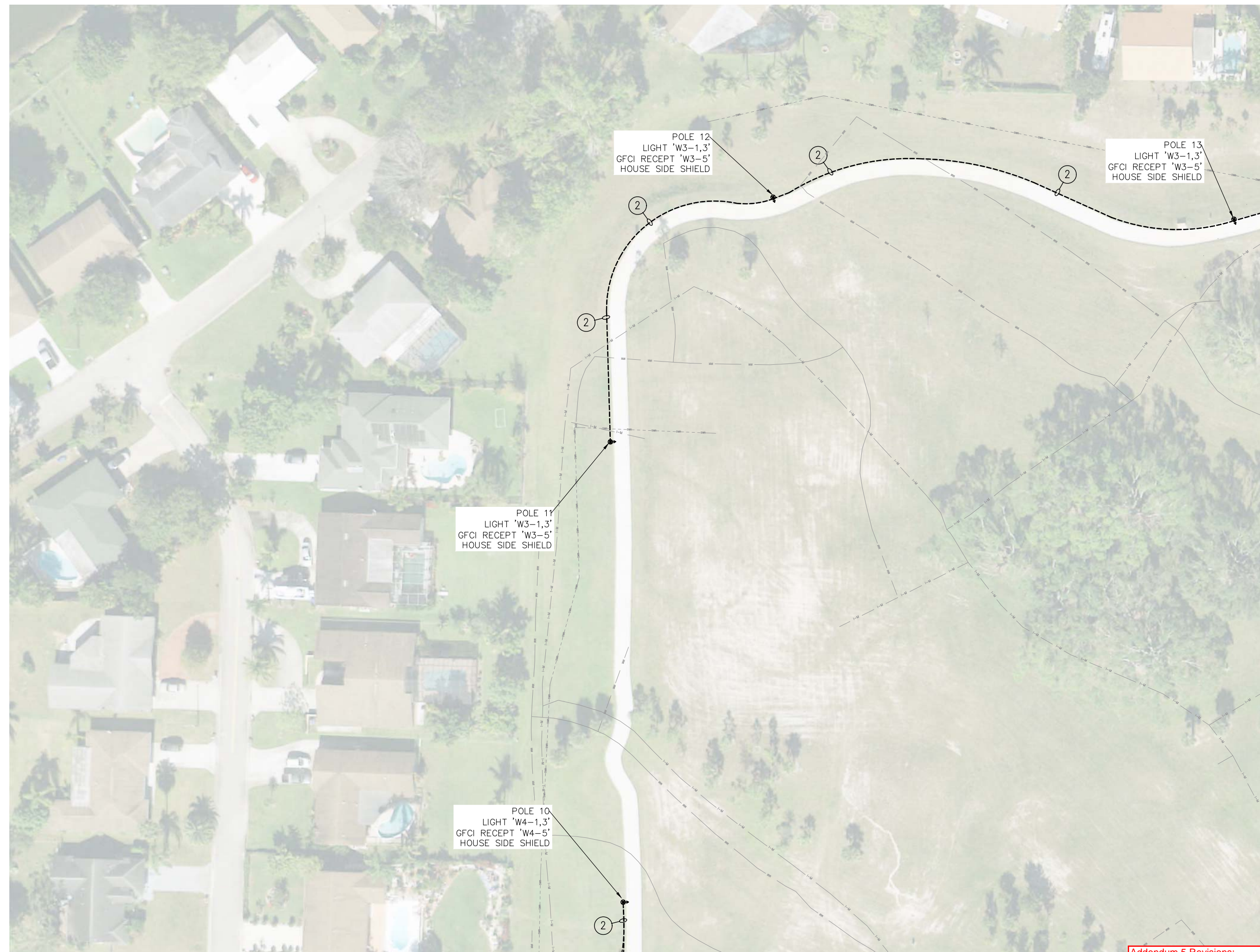
- ① 3#4/0, 2 1/2" C (DIRECTIONAL BORE)
- ② 4#6, 1#6EG, 2" C & 2" C SPARE
- ③ 4#6, 1#6EG, 2" C
- ④ 8#6, 1#6EG, 2" C (DIRECTIONAL BORE)
- ⑤ PROVIDE AND INSTALL PULL BOX LABEL "LIGHTING"
- ⑥ 3-2" C FOR FUTURE USE (DIRECTIONAL BORE)
- ⑦ 6#6, 1#6EG, 2" C & 2" C SPARE
- ⑧ 1 1/2" SPARE CONDUIT (CCTV)
- ⑨ 4#6, 1#6EG, 2" C
- ⑩ 2-1 1/2" SPARE CONDUITS (CCTV)
- ⑪ CONTRACTOR SHALL REMOVE EXISTING OUTLET AND BOLLARD AND PROVIDE AND INSTALL NEW BOLLARD WITH GFI WP OUTLET. RECONNECT TO EXISTING CIRCUIT FOR A COMPLETE WORKING SYSTEM IN PLACE.
- ⑫ DIRECTIONAL BORE 2-1 1/2" SPARE CONDUITS (CCTV)
- ⑬ DIRECTIONAL BORE 1 1/2" SPARE CONDUITS (CCTV)
- ⑭ EXISTING PULL BOX
- ⑮ PROVIDE AND INSTALL PULL BOX LABEL "ELECTRIC"
- ⑯ PROVIDE AND INSTALL PULL BOX LABEL "FIBER".
- ⑰ 4#6, 1#6EG, 2" C (DIRECTIONAL BORE)

**GENERAL NOTES**

- A) CONDUITS SHALL BE MISSILE BORE UNDER PATHWAYS.
- B) CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES AND IRRIGATION.

**LEGEND:**

- NEW UNDERGROUND CONDUIT
- - - EXISTING CONDUIT
- ⦿ NEW PATHWAY LIGHTING
- NEW PULL BOX
- EXISTING PULL BOX.
- ⦿ NEW BOLLARD WITH GFCI RECEPTACLE
- ⦿ EXISTING SPORTS FIELD LIGHTING
- ⦿ EXISTING FPL TRANSFORMER



MATCH LINE - SEE SHEET E-4

Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated; Key Notes 14-17 added; Added Symbol Legend; Intermediate pull boxes in the middle of each run between proposed poles have been removed.

**SEC** Smith Engineering Consultants, Inc.  
State Auth. #8228  
2161 Palm Beach Lakes Blvd., Suite 312  
West Palm Beach, FL 33409  
(561) 616-3911 Fax (561) 616-3912  
www.smithengineeringconsultants.com

SEAL



DATE: AUGUST 2021  
SHEET: E-3 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

Village of Royal Palm Beach  
Planning & Engineering  
10000 Royal Palm Beach Blvd., Suite 312  
Royal Palm Beach, FL 33411  
Phone: (561) 616-3911 Fax: (561) 616-3912

SEAL

**KEY NOTES**

- ① 3#4/0, 2 1/2" C (DIRECTIONAL BORE)
- ② 4#6, 1#6EG, 2" C & 2" C SPARE
- ③ 4#6, 1#6EG, 2" C
- ④ 8#6, 1#6EG, 2" C (DIRECTIONAL BORE)
- ⑤ PROVIDE AND INSTALL PULL BOX LABEL "LIGHTING"
- ⑥ 3-2" C FOR FUTURE USE (DIRECTIONAL BORE)
- ⑦ 6#6, 1#6EG, 2" C & 2" C SPARE
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- B) CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES AND IRRIGATION.

**LEGEND:**

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- - - EXISTING CONDUIT
- ⊙ NEW PATHWAY LIGHTING
- NEW PULL BOX
- EXISTING PULL BOX.
- ⊙ NEW BOLLARD WITH GFCI RECEPTACLE
- ⊙ EXISTING SPORTS FIELD LIGHTING
- ⊙ EXISTING FPL TRANSFORMER

Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated; Key Notes 14-17 added; Added Symbol Legend; Intermediate pull boxes in the middle of each run between proposed poles have been removed.

LARRY M. SMITH, PE FL. REG 45997

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MATCH LINE - SEE SHEET E-2

MATCH LINE - SEE SHEET E-5

POLE 14  
LIGHT 'W3-1,3'  
GFCI RECEPT 'W3-5'  
HOUSE SIDE SHIELD

POLE 15  
LIGHT 'W3-1,3'  
GFCI RECEPT 'W3-5'  
HOUSE SIDE SHIELD

EXISTING FPL PAD  
MOUNTED  
TRANSFORMER  
T23

SERVICE POINT 'W3'

POLE 16  
LIGHT 'W3-2,4'  
GFCI RECEPT 'W3-6'  
HOUSE SIDE SHIELD





DATE: AUGUST 2021  
SHEET: E-4 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

Village of Royal Palm Beach  
Planning & Engineering  
1000 Royal Palm Beach, FL 33411  
Phone: 561.279.2000  
Fax: 561.279.2000

MATCH LINE - SEE SHEET E-2

MATCH LINE - SEE SHEET E-6

**KEY NOTES**

- ① 3#4/0, 2 1/2" C (DIRECTIONAL BORE)
- ② 4#6, 1#6EG, 2" C & 2" C SPARE
- ③ 4#6, 1#6EG, 2" C
- ④ 8#6, 1#6EG, 2" C (DIRECTIONAL BORE)
- ⑤ PROVIDE AND INSTALL PULL BOX LABEL "LIGHTING"
- ⑥ 3-2" C FOR FUTURE USE (DIRECTIONAL BORE)
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**GENERAL NOTES**

- A) CONDUITS SHALL BE MISSILE BORE UNDER PATHWAYS.
- B) CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES AND IRRIGATION.

**LEGEND:**

- NEW UNDERGROUND CONDUIT
- EXISTING CONDUIT
- ☉ NEW PATHWAY LIGHTING
- NEW PULL BOX
- EXISTING PULL BOX.
- ⊕ NEW BOLLARD WITH GFCI RECEPTACLE
- ⊕ EXISTING SPORTS FIELD LIGHTING
- ⊕ EXISTING FPL TRANSFORMER



Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated; Key Notes 14-17 added; Added Symbol Legend; Intermediate pull boxes in the middle of each run between proposed poles have been removed.

LARRY M. SMITH, PE FL. REG. 45997

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State Auth. #8228  
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West Palm Beach, FL 33409  
(561) 616-3911 Fax (561) 616-3912  
www.smithengineeringconsultants.com

ROYAL PALM BEACH - COMMONS PARK PARKING LOT LIGHTING/ELECTRICAL DWGS - PATHWAY LIGHTING 9/27/2021



DATE: AUGUST 2021  
SHEET: E-5 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN  
ROYAL PALM BEACH - COMMONS PARK PARKING LOT LIGHTING/ELECTRICAL DWGS - PATHWAY LIGHTING 9/27/2021

Village of Royal Palm Beach  
Planning & Engineering  
1000 Royal Palm Beach, FL 33411  
Phone: (561) 616-3911 Fax: (561) 616-3912  
www.smithengineeringconsultants.com

**KEY NOTES**

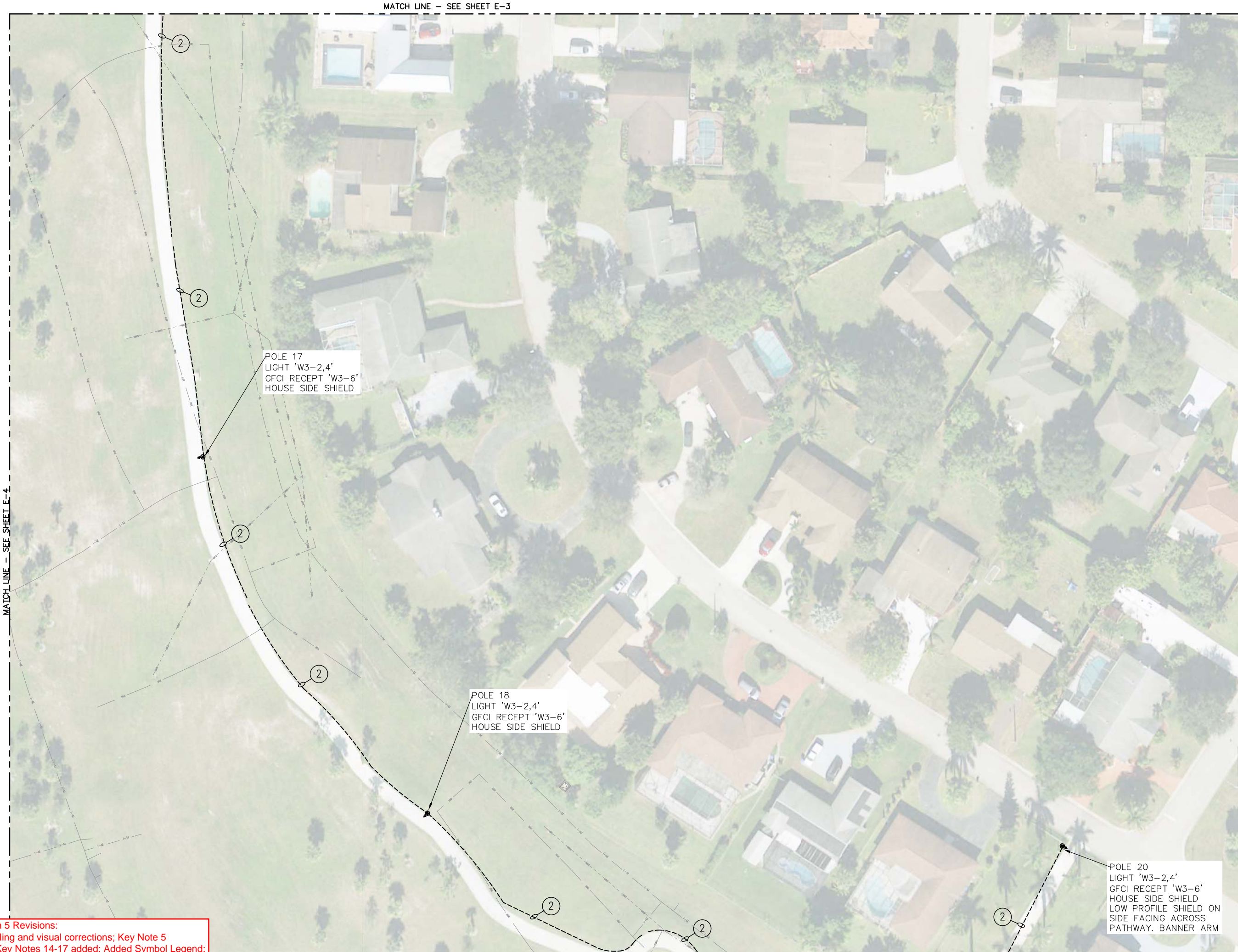
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**LEGEND:**

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**Addendum 5 Revisions:**  
Minor spelling and visual corrections; Key Note 5 updated; Key Notes 14-17 added; Added Symbol Legend; Intermediate pull boxes in the middle of each run between proposed poles have been removed.

LARRY M. SMITH, PE FL. REG 45997

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West Palm Beach, FL 33409  
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www.smithengineeringconsultants.com

SEAL



DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS  
DATE: AUGUST 2021  
SHEET: E-6 OF 25

**KEY NOTES**

- ① 3#4/0, 2 1/2" C (DIRECTIONAL BORE)
- ② 4#6, 1#6EG, 2" C & 2" C SPARE
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**Addendum 5 Revisions:**  
 Minor spelling and visual corrections; Key Note 5 updated;  
 Key Notes 14-17 added; Added Symbol Legend;  
 Intermediate pull boxes in the middle of each run between  
 proposed poles have been removed.  
 The conduit run at eastern edge of the page has been  
 changed from (8) to (10). Future use fiber and electric  
 conduit and pull boxes have been separated.

LARRY M. SMITH, PE FL. REG 45997

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 Consultants, Inc.  
 State Auth. #8228  
 2161 Palm Beach Lakes Blvd., Suite 312  
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ROYAL PALM COMMONS PARK  
 PRI1903 COMMONS PARK PATHWAY LIGHTING  
 LIGHTING PLAN

Village of Royal Palm Beach  
 Planning & Engineering  
 5050 Royal Palm Beach, FL 33411  
 561-616-3911

SEAL  
 T:\SEC 2020\50005 ROYAL PALM BEACH- COMMONS PARK PARKING LOT LIGHTING\ELECTRICAL DWGS -PATHWAY LIGHTING 9/27/2021

MATCH LINE - SEE SHEET E-4

MATCH LINE - SEE SHEET E-7

MATCH LINE - SEE SHEET E-8

MATCH LINE - SEE SHEET E-9



DATE: AUGUST 2021  
SHEET: E-7 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: JMS

Revision Description	Date	By

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

Village of Royal Palm Beach  
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1000 Royal Palm Beach Blvd., Suite 312  
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**KEY NOTES**

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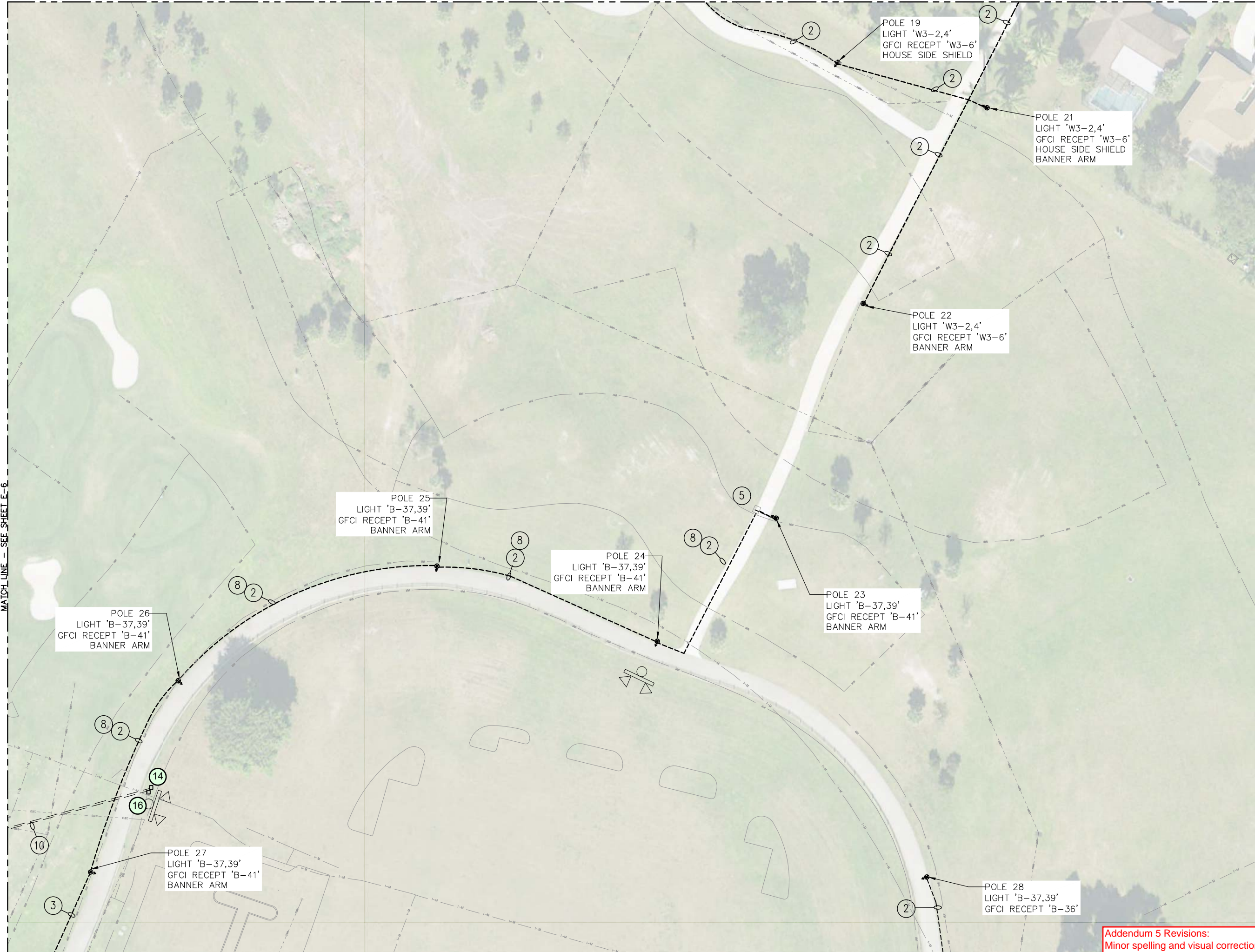
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- ⊕ NEW BOLLARD WITH GFCI RECEPTACLE
- ⊕ EXISTING SPORTS FIELD LIGHTING
- ⊕ EXISTING FPL TRANSFORMER

MATCH LINE - SEE SHEET E-5

MATCH LINE - SEE SHEET E-6

MATCH LINE - SEE SHEET E-9



Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated; Key Notes 14-17 added; Added Symbol Legend; Intermediate pull boxes in the middle of each run between proposed poles have been removed.

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SEAL



DATE: AUGUST 2021  
SHEET: E-8 OF 25

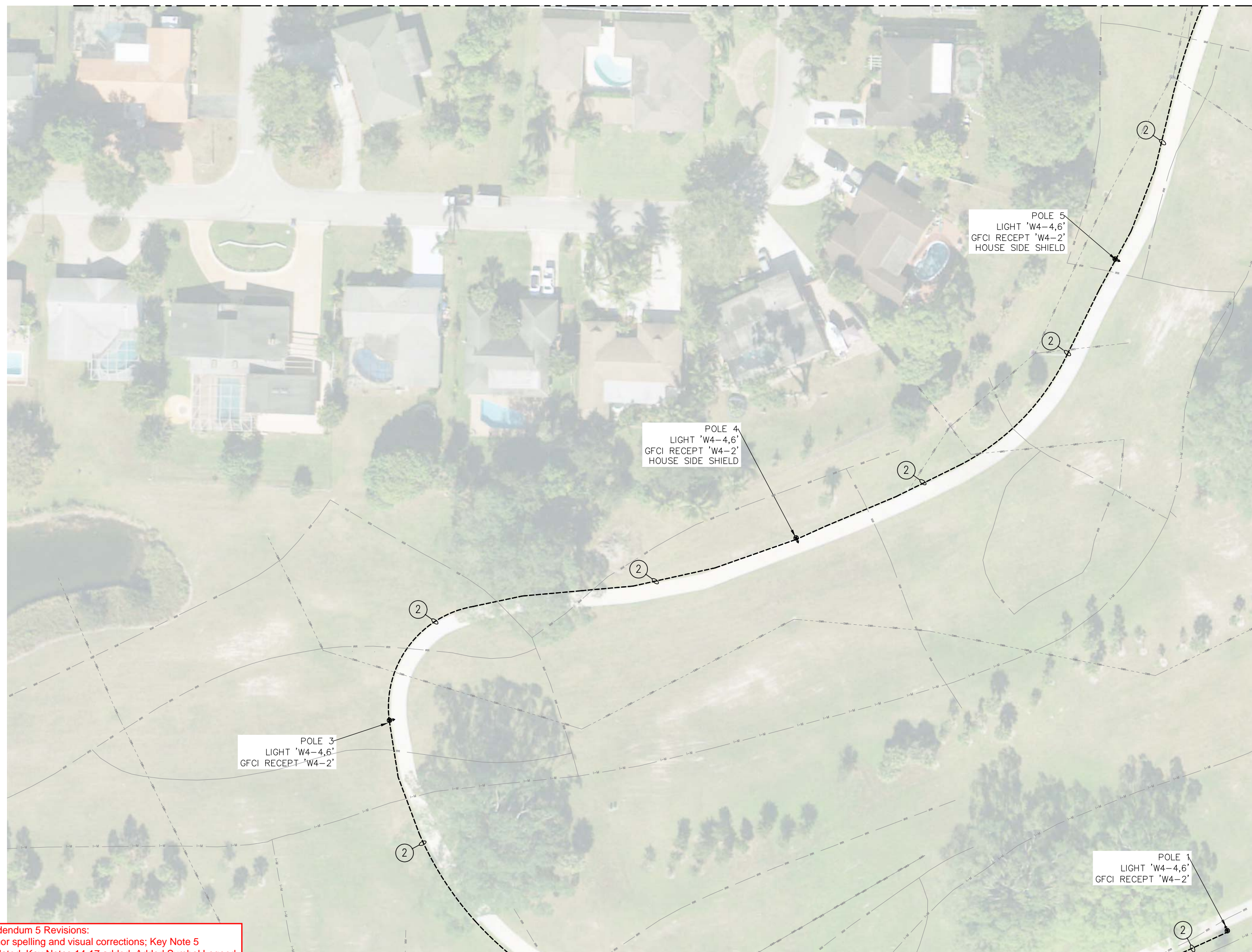
DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: JMS

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN  
LARRY M. SMITH, PE FL. REG 45997

Village of Royal Palm Beach  
Planning & Engineering  
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MATCH LINE - SEE SHEET E-6



MATCH LINE - SEE SHEET E-11

**KEY NOTES**

- ① 3#4/0, 2 1/2" C (DIRECTIONAL BORE)
- ② 4#6, 1#6EG, 2" C & 2" C SPARE
- ③ 4#6, 1#6EG, 2" C
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LARRY M. SMITH, PE FL. REG 45997

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Addendum 5 Revisions:  
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DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: JMS

DATE: AUGUST 2021  
SHEET: E-9 OF 25

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

ROYAL PALM BEACH - COMMONS PARK PARKING LOT LIGHTING/ELECTRICAL DWGS - PATHWAY LIGHTING 9/27/2021

SEAL  
LARRY M. SMITH, PE FL. REG 45997

**KEY NOTES**

- ① 3#4/0, 2 1/2" C (DIRECTIONAL BORE)
- ② 4#6, 1#6EG, 2" C & 2" C SPARE
- ③ 4#6, 1#6EG, 2" C
- ④ 8#6, 1#6EG, 2" C (DIRECTIONAL BORE)
- ⑤ PROVIDE AND INSTALL PULL BOX LABEL "LIGHTING"
- ⑥ 3-2" C FOR FUTURE USE (DIRECTIONAL BORE)
- ⑦ 6#6, 1#6EG, 2" C & 2" C SPARE
- ⑧ 1 1/2" SPARE CONDUIT (CCTV)
- ⑨ 4#6, 1#6EG, 2" C
- ⑩ 2-1 1/2" SPARE CONDUITS (CCTV)
- ⑪ CONTRACTOR SHALL REMOVE EXISTING OUTLET AND BOLLARD AND PROVIDE AND INSTALL NEW BOLLARD WITH GFI WP OUTLET. RECONNECT TO EXISTING CIRCUIT FOR A COMPLETE WORKING SYSTEM IN PLACE.
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- ⑭ EXISTING PULL BOX
- ⑮ PROVIDE AND INSTALL PULL BOX LABEL "ELECTRIC"
- ⑯ PROVIDE AND INSTALL PULL BOX LABEL "FIBER".
- ⑰ 4#6, 1#6EG, 2" C (DIRECTIONAL BORE)

**GENERAL NOTES**

- A) CONDUITS SHALL BE MISSILE BORE UNDER PATHWAYS.
- B) CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES AND IRRIGATION.

**LEGEND:**

- NEW UNDERGROUND CONDUIT
- EXISTING CONDUIT
- ⊙ NEW PATHWAY LIGHTING
- NEW PULL BOX
- EXISTING PULL BOX
- ⊙ NEW BOLLARD WITH GFCI RECEPTACLE
- ⊙ EXISTING SPORTS FIELD LIGHTING
- ⊙ EXISTING FPL TRANSFORMER

Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated;  
Key Notes 14-17 added; Added Symbol Legend;  
Intermediate pull boxes in the middle of each run between proposed poles have been removed.  
Removed 8-9-2 and 8-2 call outs that did not pertain to any proposed poles. Future use fiber and electric conduit and pull boxes have been separated.

MATCH LINE - SEE SHEET E-8

MATCH LINE - SEE SHEET E-6

MATCH LINE - SEE SHEET E-7

MATCH LINE - SEE SHEET E-10

MATCH LINE - SEE SHEET E-12



LARRY M. SMITH, PE FL. REG 45997  
**SEC** Smith Engineering Consultants, Inc.  
State Auth. #8228  
2161 Palm Beach Lakes Blvd., Suite 312  
West Palm Beach, FL 33409  
(561) 616-3911 Fax (561) 616-3912  
www.smithengineeringconsultants.com



DATE: AUGUST 2021  
SHEET: E-10 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: JLM

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

Village of Royal Palm Beach  
Planning & Engineering  
1000 Royal Palm Beach, FL 33411  
Phone: (561) 616-3911 Fax: (561) 616-3912  
www.smithengineeringconsultants.com

**KEY NOTES**

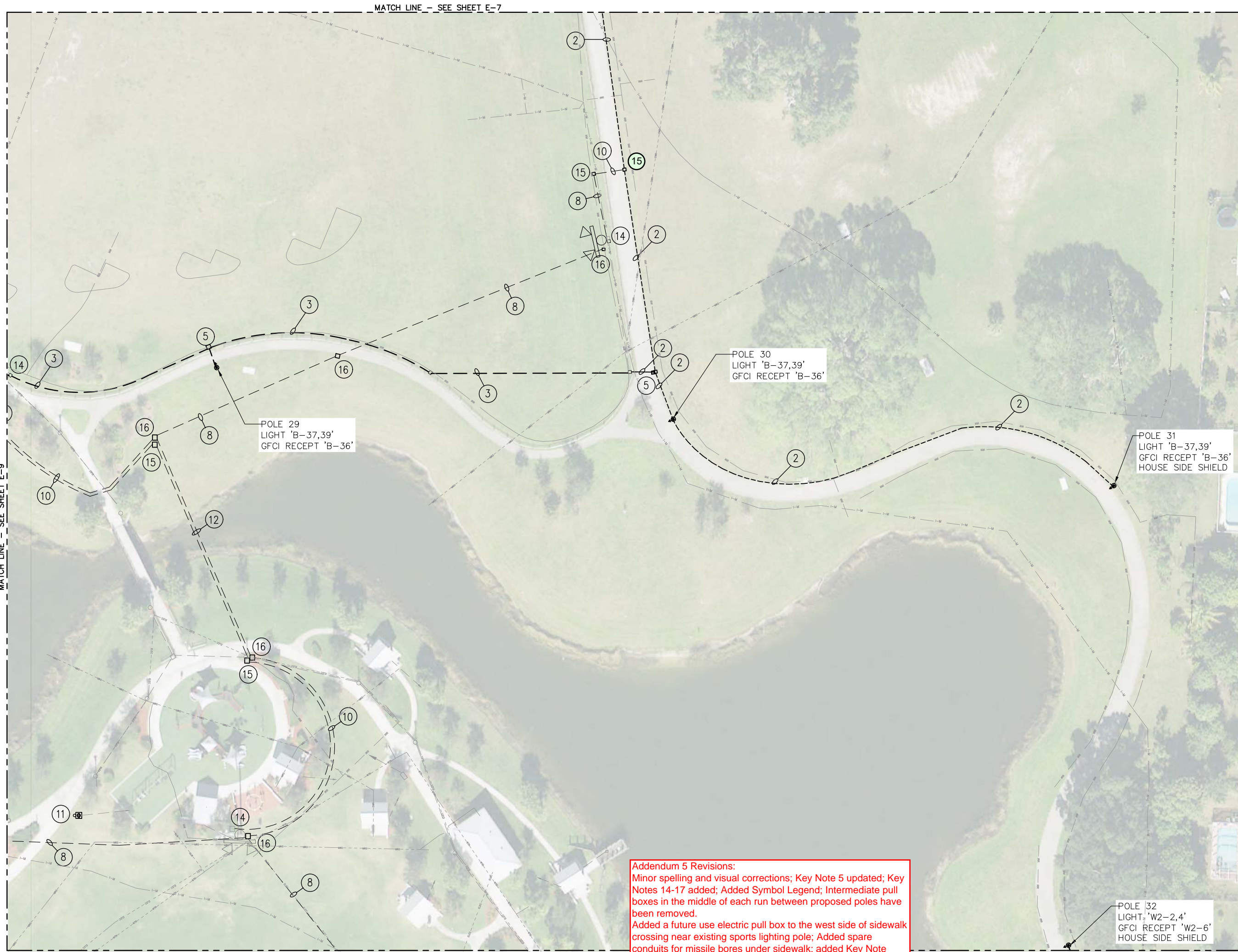
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**Addendum 5 Revisions:**  
 Minor spelling and visual corrections; Key Note 5 updated; Key Notes 14-17 added; Added Symbol Legend; Intermediate pull boxes in the middle of each run between proposed poles have been removed.  
 Added a future use electric pull box to the west side of sidewalk crossing near existing sports lighting pole; Added spare conduits for missile bores under sidewalk; added Key Note designation for directional bore under canal. Future use fiber and electric conduit and pull boxes have been separated.

SEAL



DATE: AUGUST 2021  
SHEET: E-11 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: MLMS

By	Date	Revision Description

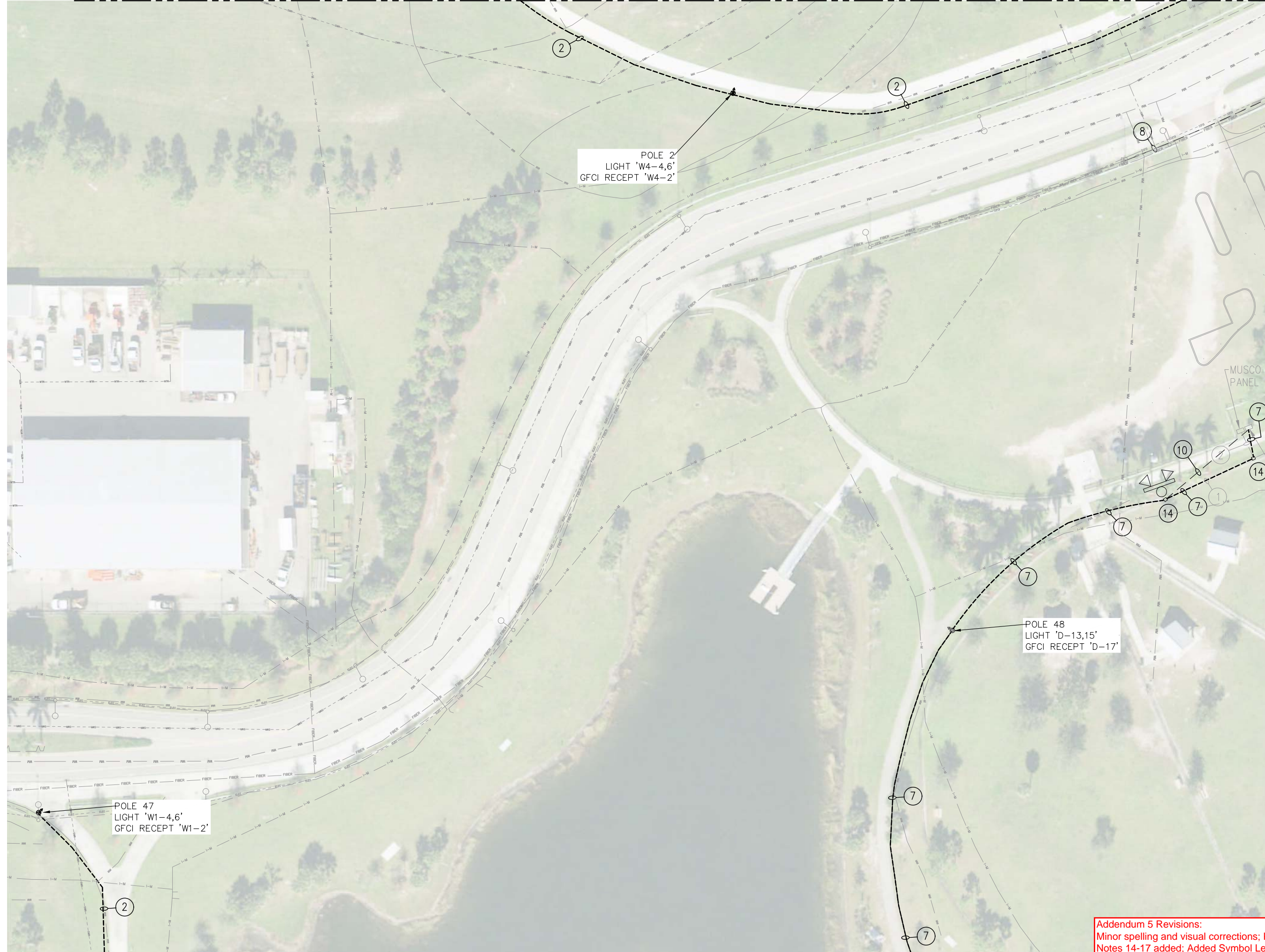
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SEAL

MATCH LINE - SEE SHEET E-8

MATCH LINE - SEE SHEET E-15



**KEY NOTES**

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- ⊙ EXISTING SPORTS FIELD LIGHTING
- ⊙ EXISTING FPL TRANSFORMER

Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated; Key Notes 14-17 added; Added Symbol Legend; Intermediate pull boxes in the middle of each run between proposed poles have been removed.  
Clarified configuration of conduits near existing sports lighting pole

LARRY M. SMITH, PE FL. REG. 45997

**SEC** Smith Engineering  
Consultants, Inc.  
State Auth. #8228  
2161 Palm Beach Lakes Blvd., Suite 312  
West Palm Beach, FL 33409  
(561) 616-3911 Fax (561) 616-3912  
www.smithengineeringconsultants.com





DATE: AUGUST 2021  
SHEET: E-12 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

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Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated; Key Notes 14-17 added; Added Symbol Legend; Intermediate pull boxes in the middle of each run between proposed poles have been removed.  
Added existing pull boxes and separate future use fiber pull boxes.

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Consultants, Inc.  
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MATCH LINE - SEE SHEET E-9

MATCH LINE - SEE SHEET E-11

MATCH LINE - SEE SHEET E-13

MATCH LINE - SEE SHEET E-15

POLE 51  
LIGHT 'D-13,15'  
GFCI RECEPT 'D-17'

POLE 54  
LIGHT 'D-13,15'  
GFCI RECEPT 'D-19'

POLE 55  
LIGHT 'D-13,15'  
GFCI RECEPT 'D-19'

POLE 53  
LIGHT 'D-13,15'  
GFCI RECEPT 'D-19'

CONTROL

EXISTING SERVICE POINT 'D'



DATE: AUGUST 2021  
SHEET: E-13 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

Village of Royal Palm Beach  
Planning & Engineering  
5050 Royal Palm Beach, FL 33411  
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SEAL

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Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated;  
Key Notes 14-17 added; Added Symbol Legend;  
Intermediate pull boxes in the middle of each run between proposed poles have been removed.  
Corrected the bottom Match Sheet reference page number. Added separate future use fiber pull boxes.

MATCH LINE - SEE SHEET E-10

MATCH LINE - SEE SHEET E-12

MATCH LINE - SEE SHEET E-16



POLE 33  
LIGHT 'W2-2,4'  
GFCI RECEPT 'W2-6'  
HOUSE SIDE SHIELD

POLE 34  
LIGHT 'W2-2,4'  
GFCI RECEPT 'W2-6'  
HOUSE SIDE SHIELD

EXISTING FPL PAD  
MOUNTED  
TRANSFORMER T9

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Consultants, Inc.  
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(561) 616-3911 Fax (561) 616-3912  
www.smithengineeringconsultants.com



DATE: AUGUST 2021  
SHEET: E-14 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: JLM

By	Date	Revision Description

ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

Village of Royal Palm Beach  
Planning & Engineering  
1000 Royal Palm Beach, FL 33411  
Phone: 561-279-2000  
Fax: 561-279-2000

**KEY NOTES**

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MATCH LINE - SEE SHEET E-11

MATCH LINE - SEE SHEET E-15

POLE 46  
LIGHT 'W1-4,6'  
GFCI RECEPT 'W1-2'

POLE 49  
LIGHT 'D-13,15'  
GFCI RECEPT 'D-17'

POLE 50  
LIGHT 'D-13,15'  
GFCI RECEPT 'D-17'

POLE 45  
LIGHT 'W1-1,3'  
GFCI RECEPT 'W1-5'  
HOUSE SIDE SHIELD

POLE 44  
LIGHT 'W1-1,3'  
GFCI RECEPT 'W1-5'  
HOUSE SIDE SHIELD

POLE 43  
LIGHT 'W1-1,3'  
GFCI RECEPT 'W1-5'  
HOUSE SIDE SHIELD

Addendum 5 Revisions:  
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DATE: AUGUST 2021  
SHEET: E-15 OF 25

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REVIEWED BY: LMS

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ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

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MATCH LINE - SEE SHEET E-14

MATCH LINE - SEE SHEET E-16



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DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS  
DATE: AUGUST 2021  
SHEET: E-16 OF 25

**KEY NOTES**

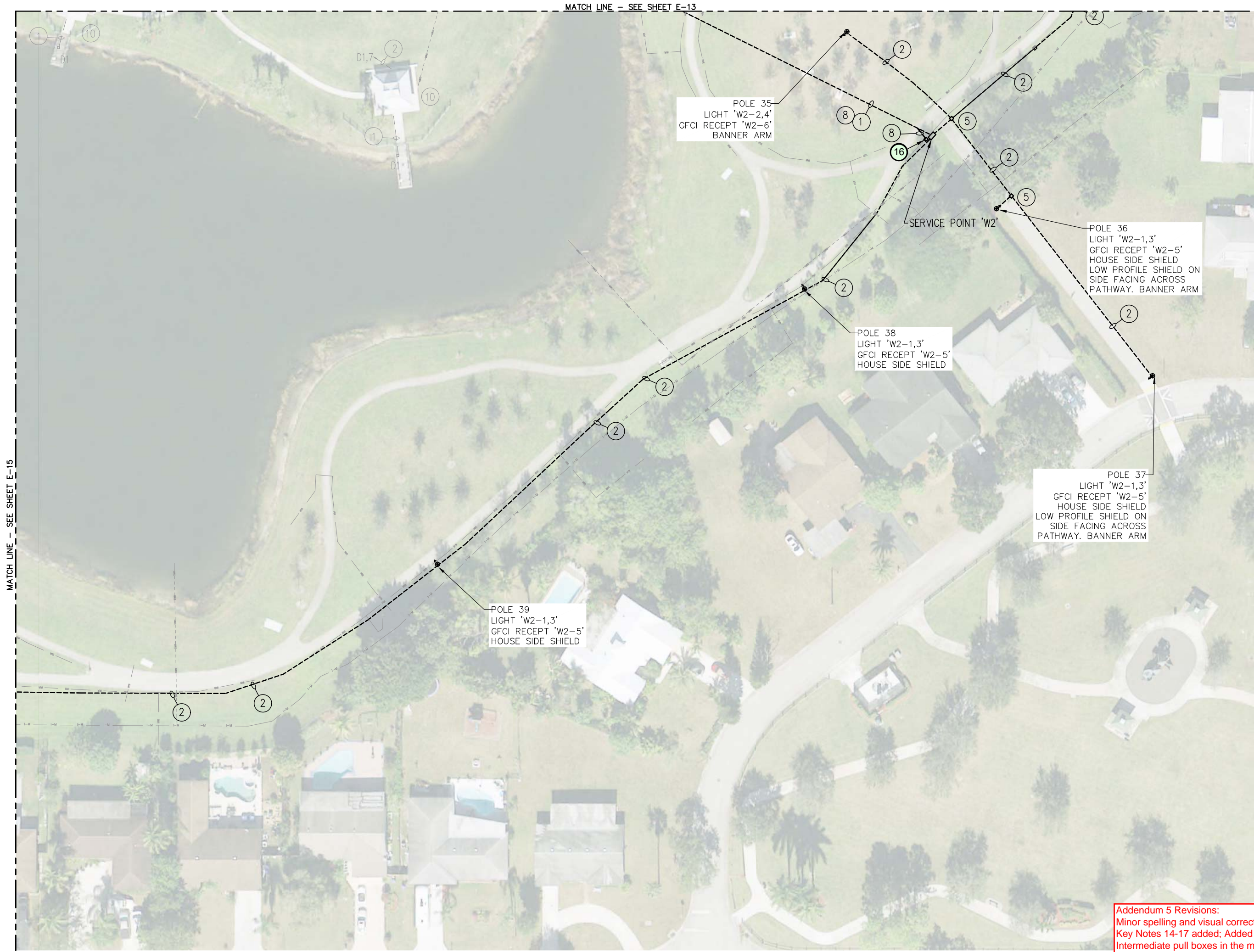
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Key Notes 14-17 added; Added Symbol Legend;  
Intermediate pull boxes in the middle of each run between proposed poles have been removed.  
Added pull box for future use fiber conduit to terminate in.

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ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN  
DATE: 9/27/2021

MATCH LINE - SEE SHEET E-15

MATCH LINE - SEE SHEET E-13



DATE: AUGUST 2021  
SHEET: E-17 OF 25

DESIGNED BY: SPH  
DRAWN BY: SPH  
REVIEWED BY: LMS

By	Date	Revision Description

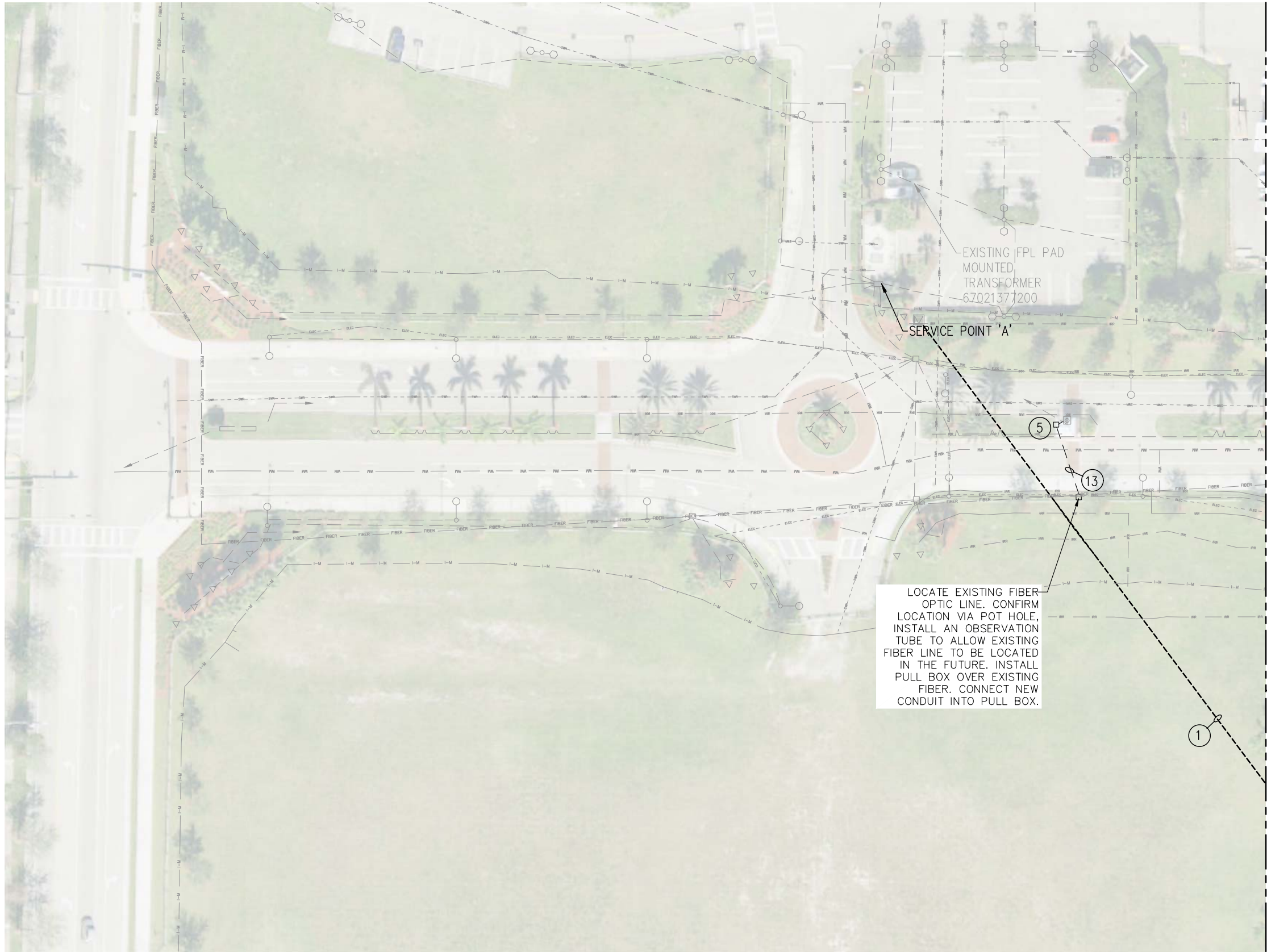
ROYAL PALM COMMONS PARK  
PR1903 COMMONS PARK PATHWAY LIGHTING  
LIGHTING PLAN

ROYAL PALM BEACH - COMMONS PARK PARKING LOT LIGHTING/ELECTRICAL DWGS - PATHWAY LIGHTING 9/27/2021

ROYAL PALM BEACH - COMMONS PARK PARKING LOT LIGHTING/ELECTRICAL DWGS - PATHWAY LIGHTING 9/27/2021

Village of Royal Palm Beach  
Planning & Engineering  
10000 Royal Palm Beach Blvd., Suite 312  
West Palm Beach, FL 33411  
Phone: 561-838-7295

SEAL



**KEY NOTES**

- ① 3#4/0, 2 1/2" C (DIRECTIONAL BORE)
- ② 4#6, 1#6EG, 2" C & 2" C SPARE
- ③ 4#6, 1#6EG, 2" C
- ④ 8#6, 1#6EG, 2" C (DIRECTIONAL BORE)
- ⑤ PROVIDE AND INSTALL PULL BOX LABEL "LIGHTING"
- ⑥ 3-2" C FOR FUTURE USE (DIRECTIONAL BORE)
- ⑦ 6#6, 1#6EG, 2" C & 2" C SPARE
- ⑧ 1 1/2" SPARE CONDUIT (CCTV)
- ⑨ 4#6, 1#6EG, 2" C
- ⑩ 2-1 1/2" SPARE CONDUITS (CCTV)
- ⑪ CONTRACTOR SHALL REMOVE EXISTING OUTLET AND BOLLARD AND PROVIDE AND INSTALL NEW BOLLARD WITH GFI WP OUTLET. RECONNECT TO EXISTING CIRCUIT FOR A COMPLETE WORKING SYSTEM IN PLACE.
- ⑫ DIRECTIONAL BORE 2-1 1/2" SPARE CONDUITS (CCTV)
- ⑬ DIRECTIONAL BORE 1 1/2" SPARE CONDUITS (CCTV)
- ⑭ EXISTING PULL BOX
- ⑮ PROVIDE AND INSTALL PULL BOX LABEL "ELECTRIC"
- ⑯ PROVIDE AND INSTALL PULL BOX LABEL "FIBER".
- ⑰ 4#6, 1#6EG, 2" C (DIRECTIONAL BORE)

**GENERAL NOTES**

- A) CONDUITS SHALL BE MISSILE BORE UNDER PATHWAYS.
- B) CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES AND IRRIGATION.

**LEGEND:**

- NEW UNDERGROUND CONDUIT
- - - EXISTING CONDUIT
- ⊙ NEW PATHWAY LIGHTING
- NEW PULL BOX
- EXISTING PULL BOX.
- ⊕ NEW BOLLARD WITH GFCI RECEPTACLE
- ⊕ EXISTING SPORTS FIELD LIGHTING
- ⊕ EXISTING FPL TRANSFORMER

LOCATE EXISTING FIBER OPTIC LINE. CONFIRM LOCATION VIA POT HOLE. INSTALL AN OBSERVATION TUBE TO ALLOW EXISTING FIBER LINE TO BE LOCATED IN THE FUTURE. INSTALL PULL BOX OVER EXISTING FIBER. CONNECT NEW CONDUIT INTO PULL BOX.

Addendum 5 Revisions:  
Minor spelling and visual corrections; Key Note 5 updated;  
Key Notes 14-17 added; Added Symbol Legend;  
Intermediate pull boxes in the middle of each run between proposed poles have been removed.  
Revised call-out for proposed fiber pull box.

LARRY M. SMITH, PE FL. REG 45997

**SEC** Smith Engineering  
Consultants, Inc.  
State Auth. #8228  
2161 Palm Beach Lakes Blvd., Suite 312  
West Palm Beach, FL 33409  
(561) 616-3911 Fax (561) 616-3912  
www.smithengineeringconsultants.com



**NEW LOAD CENTER W1 SCHEDULE**

BUS AMPS		LOAD	POLES	AMPS	BUS		AMPS	POLES	LOAD	BUS AMPS	
A	B				A	B				A	B
5.0		PATHWAY LIGHTING CIRCUIT	2	30	1	2	30	2	PATHWAY LIGHTING CIRCUIT	5.0	
	5.0	1	1	1	3	4	1	1	1		5.0
6.0		GFCI POLE RECEPTACLES	1	20	5	6	20	1	GFCI POLE RECEPTACLES	6.0	
	1.5	GFCI RECEPTACLE	1	20	7	8	20	1	CONTRACTOR CONTROLS		1.0
		SPARE	1	20	9	10			SPACE		
		SPARE	1	20	11	12			SPACE		
		SPARE	1	20	13	14			SPACE		
		SPARE	1	20	15	16			SPACE		
		SPACE			17	18			SPACE		
		SPACE			19	20			SPACE		
		SPACE			21	22			SPACE		
		SPACE			23	24			SPACE		
		SPACE			25	26			SPACE		
		SPACE			27	28			SPACE		
		SPACE			29	30			SPACE		

TOTAL AMPS: BUS A 22.0 BUS B 12.5 CONNECTED Kva 4.1

RATED VOLTAGE:  120/240  1 PHASE, 3 WIRE BRANCH POLES  16  20  30  42

RATED AMPS:  200  225  400 CABINET:  SURFACE  FLUSH

NEUTRAL BUS  100%  150%  200% GROUND BUS  HINGED DOOR  KEYPED DOOR LATCH LOCATION: \_\_\_\_\_

CIRCUIT BREAKER (BOLT-IN) BRANCH DEVICES  TVSS ENCLOSURE TYPE  NEMA 1  NEMA 3R  NEMA 4X

MAIN LUGS ONLY MAIN \_\_\_\_\_ AMPS  BREAKER \_\_\_\_\_ TO BE GFI BREAKERS

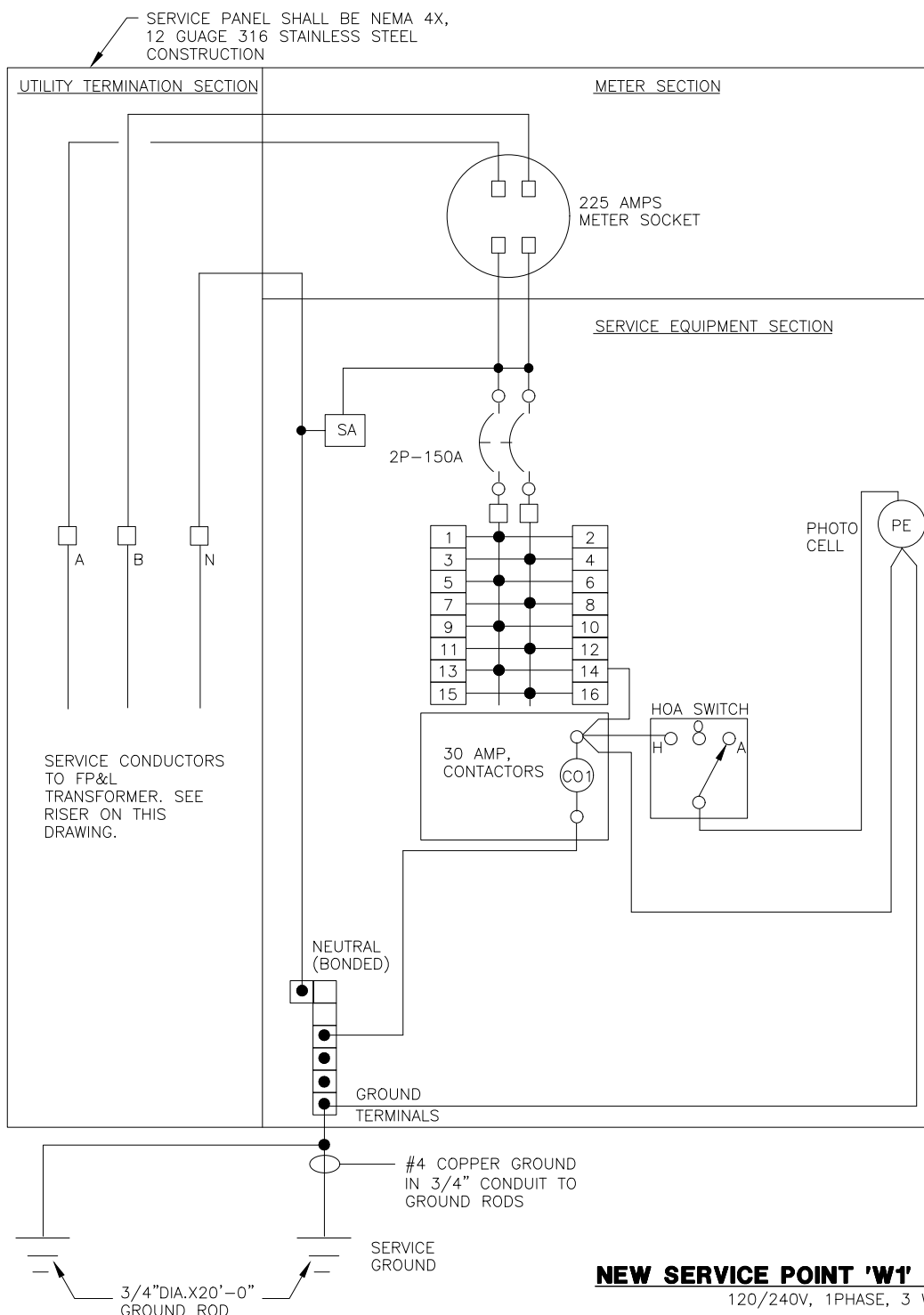
PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF \_\_\_\_\_,000 AMPS SYMMETRICAL.

APPROVED MFR'S. SQUARE D, GE, CUTLER-HAMMER, COPPER BUSSES MAIN LUGS \_\_\_\_\_ SETS SIZE: \_\_\_\_\_

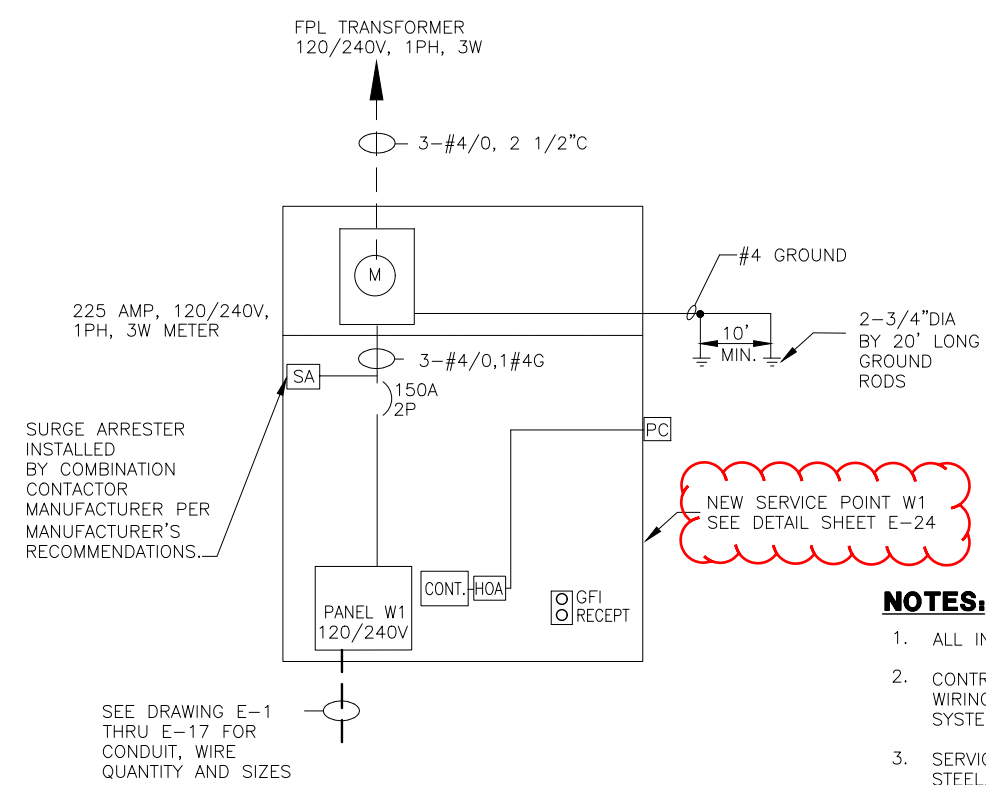
**SERVICE POINT 'W1' DATA**

DESCRIPTION	TOTAL AMPS	TOTAL KVA
LOAD	17.1	4.1

SERVICE CALCULATION  
(17.1A X 1.25) = 21.4A  
150A MAIN BREAKER



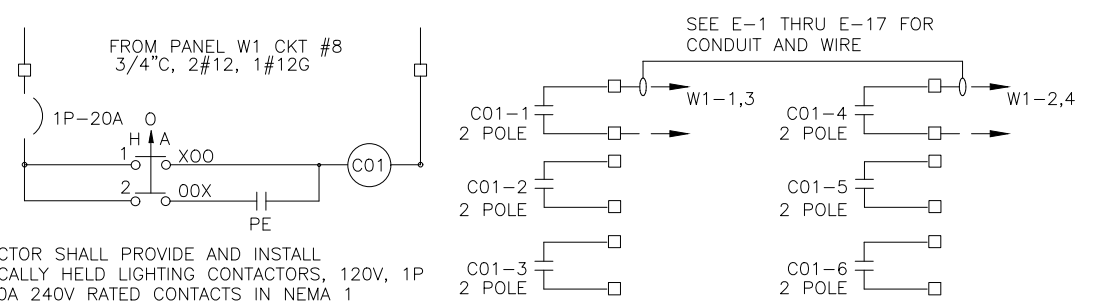
**NEW SERVICE POINT 'W1' RISER DIAGRAM**  
120/240V, 1PHASE, 3 WIRE



**SERVICE POINT 'W1' ONE LINE DIAGRAM**  
120/240V, 1 PHASE, 3 WIRE

**NOTES:**

- ALL INTERIOR WIRING SHALL BE SIZE AS PER NEC CODE.
- CONTRACTOR SHALL PROVIDE ALL CIRCUIT BREAKERS, INTERIOR WIRING, GROUNDING RODS, ETC. FOR A COMPLETE WORKING SYSTEM IN PLACE.
- SERVICE POINT CABINET SHALL BE NEMA 4X, 316 STAINLESS STEEL.
- SERVICE POINT CABINET SHALL BE BUILT BY AN APPROVED UL SHOP AND CARRY A UL LABEL ON THE PANEL AND EQUIPMENT.



**PATHWAY LIGHTING CONTROL SCHEMATIC**  
SCALE: NONE

CONTRACTOR SHALL PROVIDE AND INSTALL ELECTRICALLY HELD LIGHTING CONTACTORS, 120V, 1P COIL, 30A 240V RATED CONTACTS IN NEMA 1 ENCLOSURE. MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE WORKING SYSTEM IN PLACE.

Addendum 5 Revisions:  
Referenced sheet number has been corrected.



**NEW LOAD CENTER W2 SCHEDULE**

BUS AMPS		LOAD	POLES	AMPS	BUS		AMPS	POLES	LOAD	BUS AMPS	
A	B				A	B				A	B
5.0		PATHWAY LIGHTING CIRCUIT	2	30	1	2	30	2	PATHWAY LIGHTING CIRCUIT	5.0	
	5.0	1	1	1	3	4	1	1	1	5.0	5.0
6.0		GFCI POLE RECEPTACLES	1	20	5	6	20	1	GFCI POLE RECEPTACLES	6.0	
	1.5	GFCI RECEPTACLE	1	20	7	8	20	1	CONTRACTOR CONTROLS		1.0
		SPARE	1	20	9	10			SPACE		
		SPARE	1	20	11	12			SPACE		
		SPARE	1	20	13	14			SPACE		
		SPARE	1	20	15	16			SPACE		
		SPACE			17	18			SPACE		
		SPACE			19	20			SPACE		
		SPACE			21	22			SPACE		
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NEUTRAL BUS  100%  150%  200% GROUND BUS  HINGED DOOR  KEYPED DOOR LATCH LOCATION: \_\_\_\_\_

CIRCUIT BREAKER (BOLT-IN) BRANCH DEVICES  TVSS ENCLOSURE TYPE  NEMA 1  NEMA 3R  NEMA 4X

MAIN LUGS ONLY MAIN \_\_\_\_\_ AMPS  BREAKER \_\_\_\_\_ TO BE GFI BREAKERS

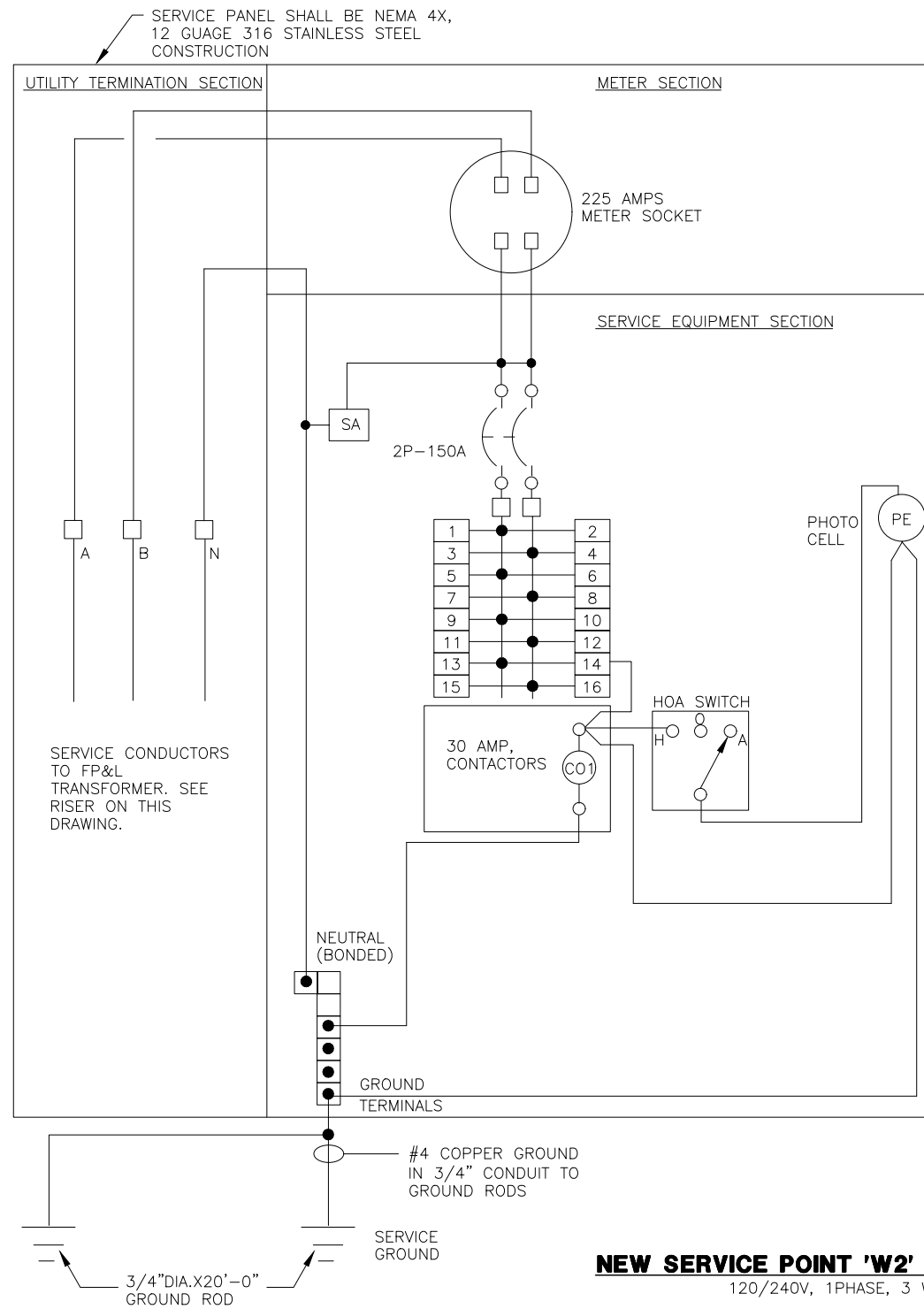
PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF \_\_\_\_\_,000 AMPS SYMMETRICAL.

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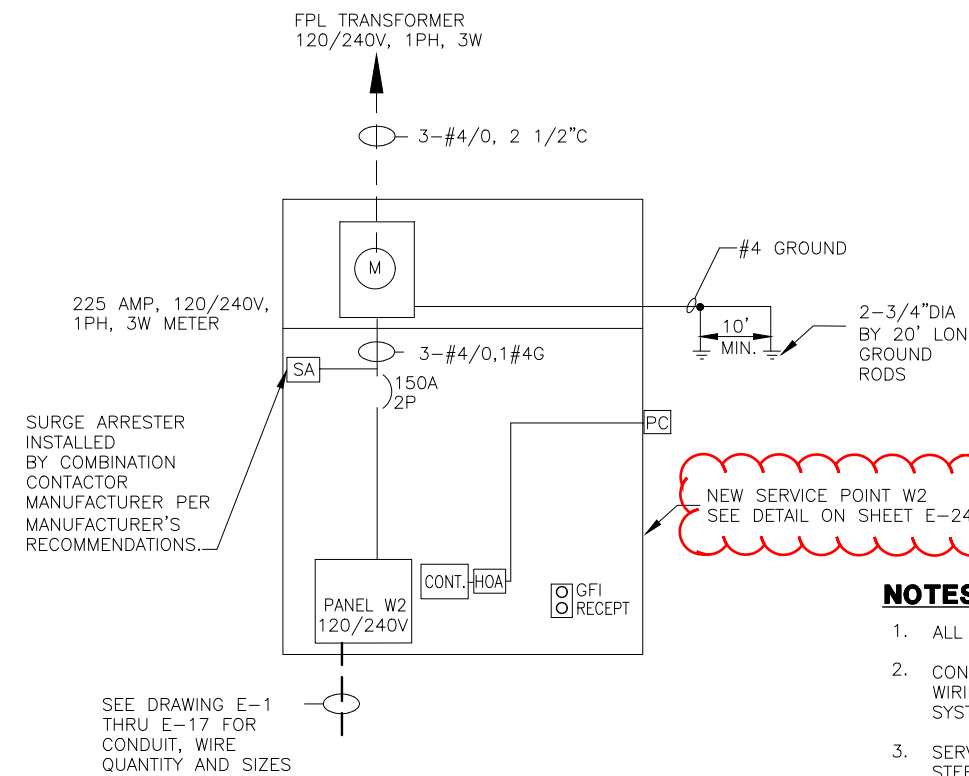
**SERVICE POINT 'W2' DATA**

DESCRIPTION	TOTAL AMPS	TOTAL KVA
LOAD	17.1	4.1

SERVICE CALCULATION  
(17.1A X 1.25) = 21.4A  
150A MAIN BREAKER



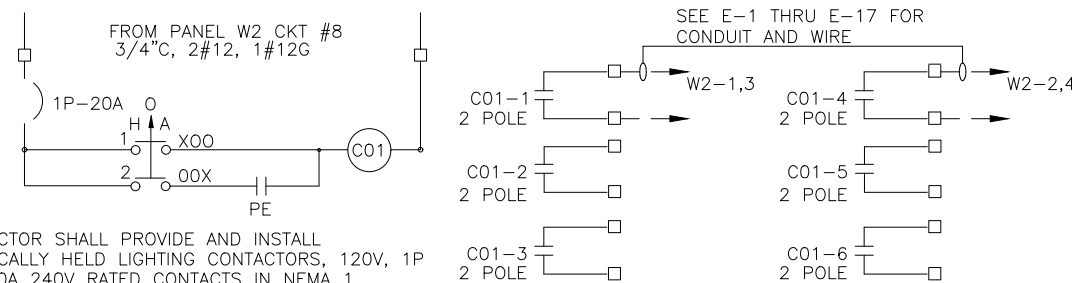
**NEW SERVICE POINT 'W2' RISER DIAGRAM**  
120/240V, 1PHASE, 3 WIRE



**SERVICE POINT 'W2' ONE LINE DIAGRAM**  
120/240V, 1 PHASE, 3 WIRE

**NOTES:**

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- CONTRACTOR SHALL PROVIDE ALL CIRCUIT BREAKERS, INTERIOR WIRING, GROUNDING RODS, ETC. FOR A COMPLETE WORKING SYSTEM IN PLACE.
- SERVICE POINT CABINET SHALL BE NEMA 4X, 316 STAINLESS STEEL.
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**PATHWAY LIGHTING CONTROL SCHEMATIC**

SCALE: NONE

CONTRACTOR SHALL PROVIDE AND INSTALL ELECTRICALLY HELD LIGHTING CONTACTORS, 120V, 1P COIL, 30A 240V RATED CONTACTS IN NEMA 1 ENCLOSURE. MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE WORKING SYSTEM IN PLACE.

LARRY M. SMITH, PE FL. REG 45997

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Addendum 5 Revisions:  
Referenced sheet number has been corrected.





**NEW LOAD CENTER W3 SCHEDULE**

BUS AMPS		LOAD	POLES	AMPS	BUS		AMPS	POLES	LOAD	BUS AMPS	
A	B				A	B				A	B
5.0		PATHWAY LIGHTING CIRCUIT	2	30	1	2	30	2	PATHWAY LIGHTING CIRCUIT	5.0	
	5.0	1	1	1	3	4	1	1	1	5.0	5.0
6.0		GFCI POLE RECEPTACLES	1	20	5	6	20	1	GFCI POLE RECEPTACLES	6.0	
	1.5	GFCI RECEPTACLE	1	20	7	8	20	1	CONTRACTOR CONTROLS		1.0
		SPARE	1	20	9	10			SPACE		
		SPARE	1	20	11	12			SPACE		
		SPARE	1	20	13	14			SPACE		
		SPARE	1	20	15	16			SPACE		
		SPACE			17	18			SPACE		
		SPACE			19	20			SPACE		
		SPACE			21	22			SPACE		
		SPACE			23	24			SPACE		
		SPACE			25	26			SPACE		
		SPACE			27	28			SPACE		
		SPACE			29	30			SPACE		

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RATED AMPS:  200  225  400 CABINET:  SURFACE  FLUSH

NEUTRAL BUS  100%  150%  200% GROUND BUS  HINGED DOOR  KEYPED DOOR LATCH LOCATION: \_\_\_\_\_

CIRCUIT BREAKER (BOLT-IN) BRANCH DEVICES  TVSS ENCLOSURE TYPE  NEMA 1  NEMA 3R  NEMA 4X

MAIN LUGS ONLY MAIN \_\_\_\_\_ AMPS  BREAKER \_\_\_\_\_ TO BE GFI BREAKERS

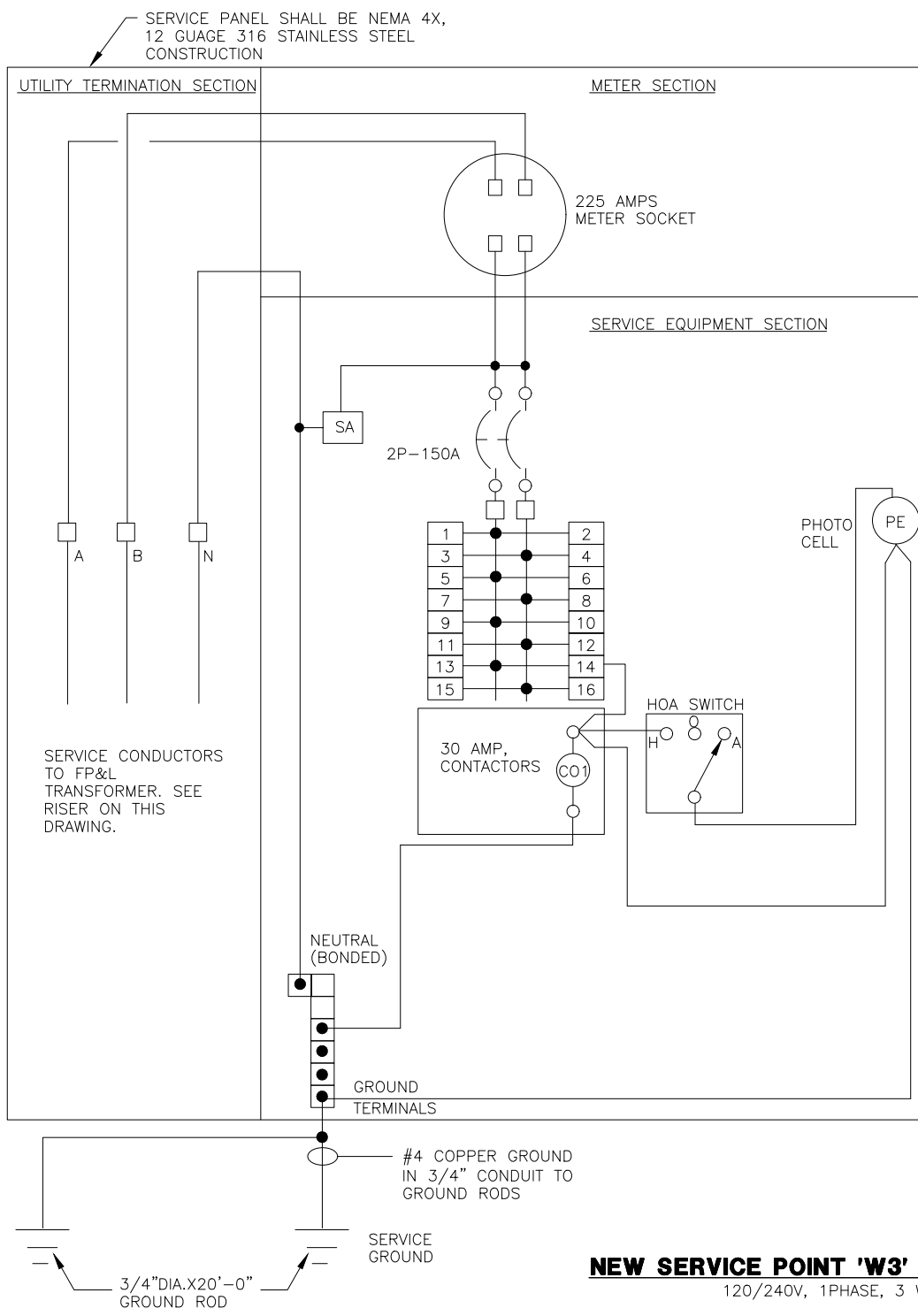
PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF \_\_\_\_\_,000 AMPS SYMMETRICAL.

APPROVED MFR'S. SQUARE D, GE, CUTLER-HAMMER, COPPER BUSSES MAIN LUGS \_\_\_\_\_ SETS SIZE: \_\_\_\_\_

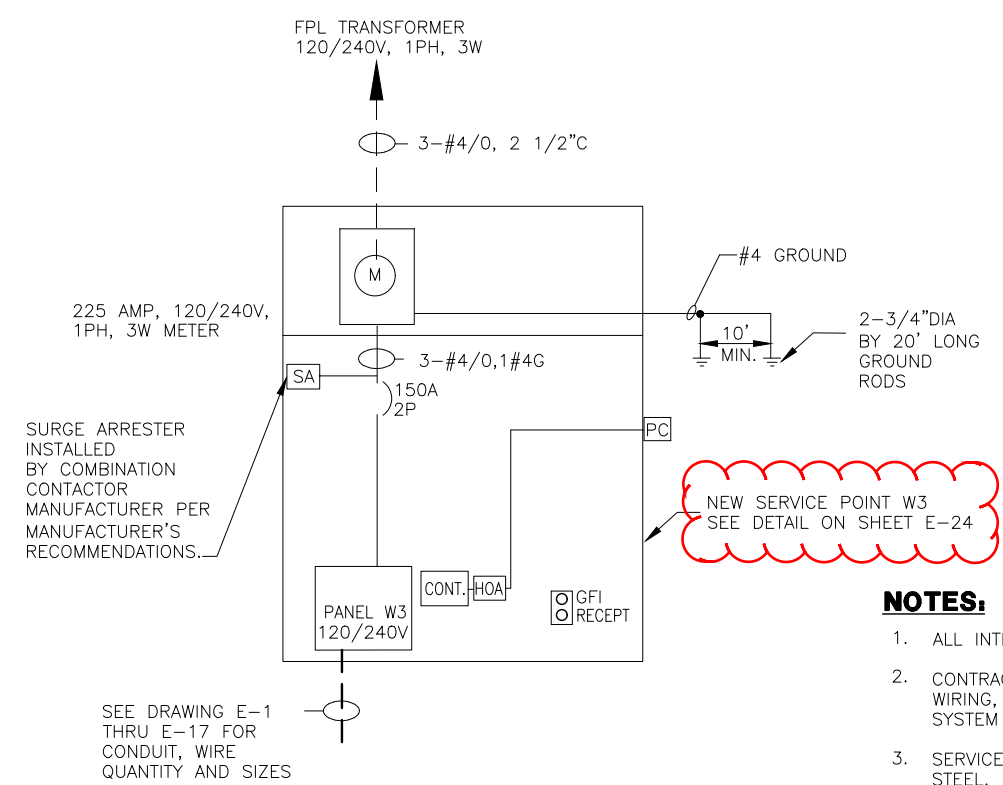
**SERVICE POINT 'W3' DATA**

DESCRIPTION	TOTAL AMPS	TOTAL KVA
LOAD	17.1	4.1

SERVICE CALCULATION  
(17.1A X 1.25) = 21.4A  
150A MAIN BREAKER



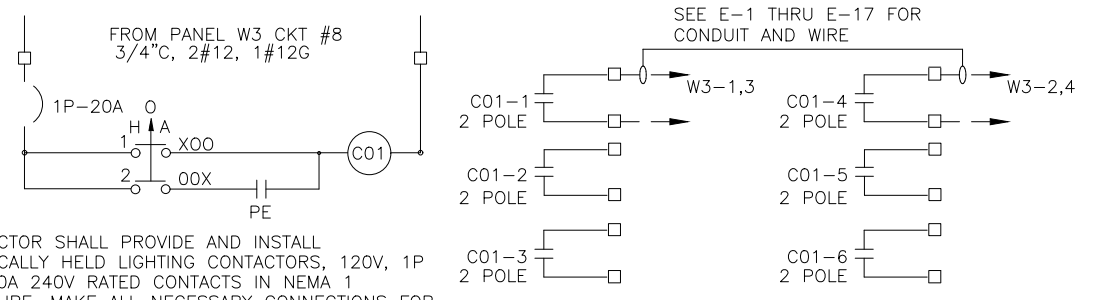
**NEW SERVICE POINT 'W3' RISER DIAGRAM**  
120/240V, 1PHASE, 3 WIRE



**SERVICE POINT 'W3' ONE LINE DIAGRAM**  
120/240V, 1 PHASE, 3 WIRE

**NOTES:**

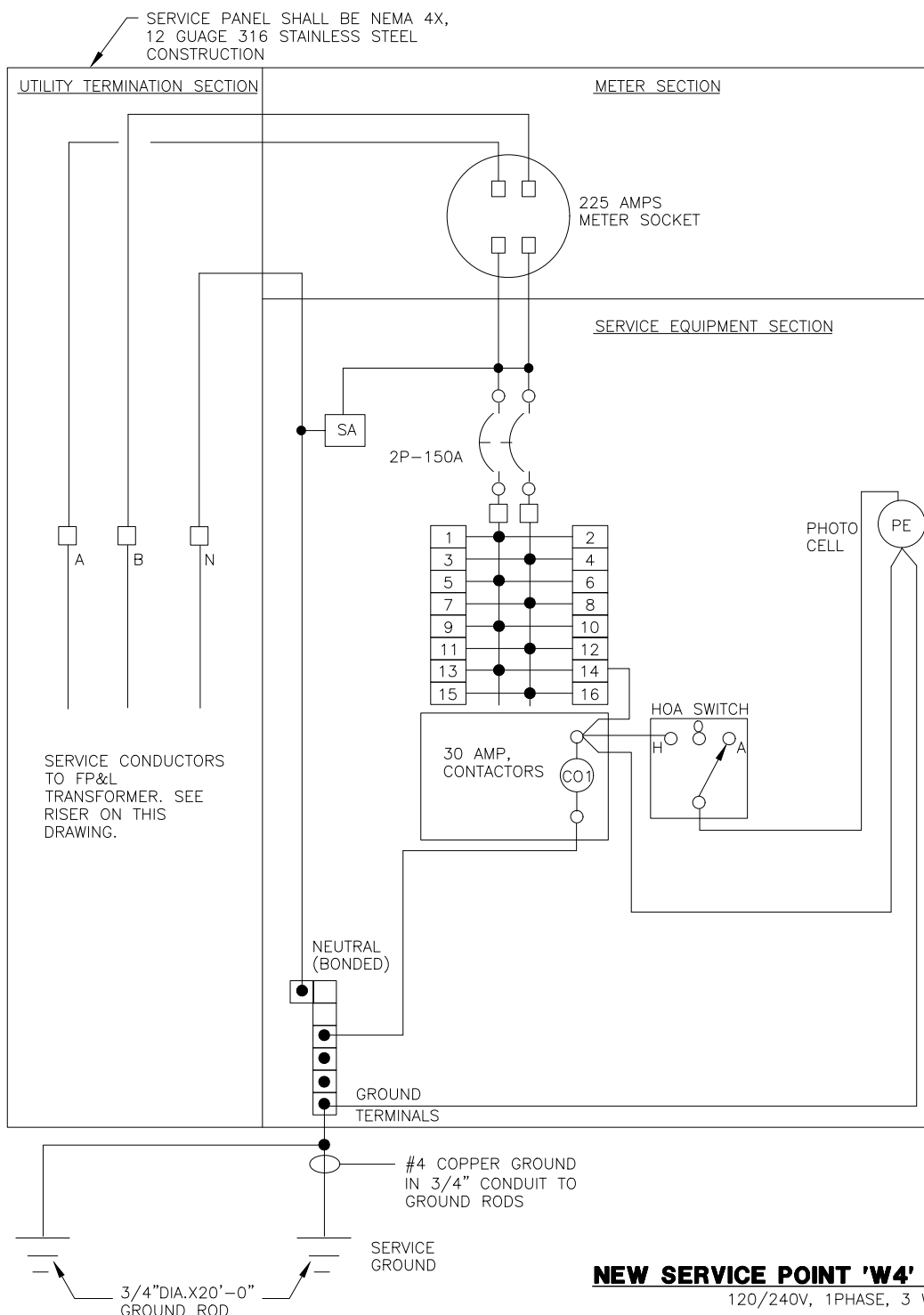
- ALL INTERIOR WIRING SHALL BE SIZE AS PER NEC CODE.
- CONTRACTOR SHALL PROVIDE ALL CIRCUIT BREAKERS, INTERIOR WIRING, GROUNDING RODS, ETC. FOR A COMPLETE WORKING SYSTEM IN PLACE.
- SERVICE POINT CABINET SHALL BE NEMA 4X, 316 STAINLESS STEEL.
- SERVICE POINT CABINET SHALL BE BUILT BY AN APPROVED UL SHOP AND CARRY A UL LABEL ON THE PANEL AND EQUIPMENT.



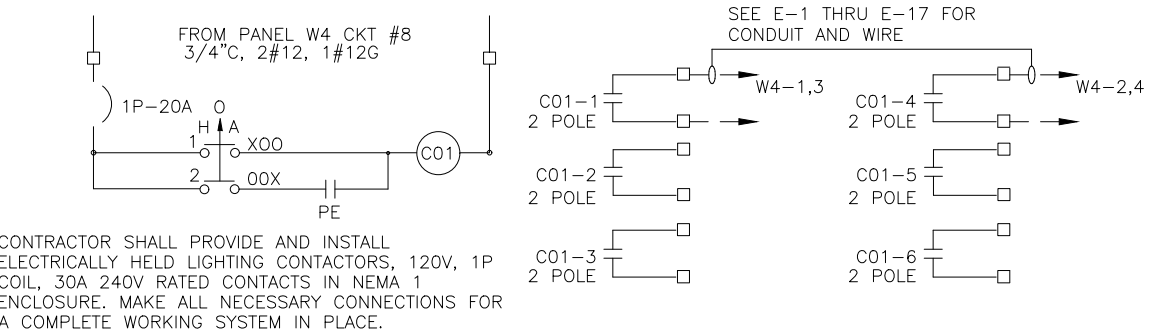
**PATHWAY LIGHTING CONTROL SCHEMATIC**  
SCALE: NONE

CONTRACTOR SHALL PROVIDE AND INSTALL ELECTRICALLY HELD LIGHTING CONTACTORS, 120V, 1P COIL, 30A 240V RATED CONTACTS IN NEMA 1 ENCLOSURE. MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE WORKING SYSTEM IN PLACE.

Addendum 5 Revisions:  
Referenced sheet number has been corrected.



**NEW SERVICE POINT 'W4' RISER DIAGRAM**  
120/240V, 1PHASE, 3 WIRE



**PATHWAY LIGHTING CONTROL SCHEMATIC**  
SCALE: NONE

CONTRACTOR SHALL PROVIDE AND INSTALL ELECTRICALLY HELD LIGHTING CONTACTORS, 120V, 1P COIL, 30A 240V RATED CONTACTS IN NEMA 1 ENCLOSURE. MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE WORKING SYSTEM IN PLACE.

**NEW LOAD CENTER W4 SCHEDULE**

BUS AMPS		LOAD	POLES	AMPS	BUS		AMPS	POLES	LOAD	BUS AMPS	
A	B				A	B				A	B
5.0		PATHWAY LIGHTING CIRCUIT	2	30	1	2	30	2	PATHWAY LIGHTING CIRCUIT	5.0	
	5.0	1	1	1	3	4	1	1	1	5.0	5.0
6.0		GFCI POLE RECEPTACLES	1	20	5	6	20	1	GFCI POLE RECEPTACLES	6.0	
	1.5	GFCI RECEPTACLE	1	20	7	8	20	1	CONTRACTOR CONTROLS		1.0
		SPARE	1	20	9	10			SPACE		
		SPARE	1	20	11	12			SPACE		
		SPARE	1	20	13	14			SPACE		
		SPARE	1	20	15	16			SPACE		
		SPACE			17	18			SPACE		
		SPACE			19	20			SPACE		
		SPACE			21	22			SPACE		
		SPACE			23	24			SPACE		
		SPACE			25	26			SPACE		
		SPACE			27	28			SPACE		
		SPACE			29	30			SPACE		

TOTAL AMPS: BUS A 22.0 BUS B 12.5 CONNECTED Kva 4.1

RATED VOLTAGE:  120/240  1 PHASE, 3 WIRE BRANCH POLES  16  20  30  42

RATED AMPS:  200  225  400 CABINET:  SURFACE  FLUSH

NEUTRAL BUS  100%  150%  200% GROUND BUS  HINGED DOOR  KEYPED DOOR LATCH LOCATION: \_\_\_\_\_

CIRCUIT BREAKER (BOLT-IN) BRANCH DEVICES  TVSS ENCLOSURE TYPE  NEMA 1  NEMA 3R  NEMA 4X

MAIN LUGS ONLY MAIN \_\_\_\_\_ AMPS  BREAKER \_\_\_\_\_ TO BE GFI BREAKERS

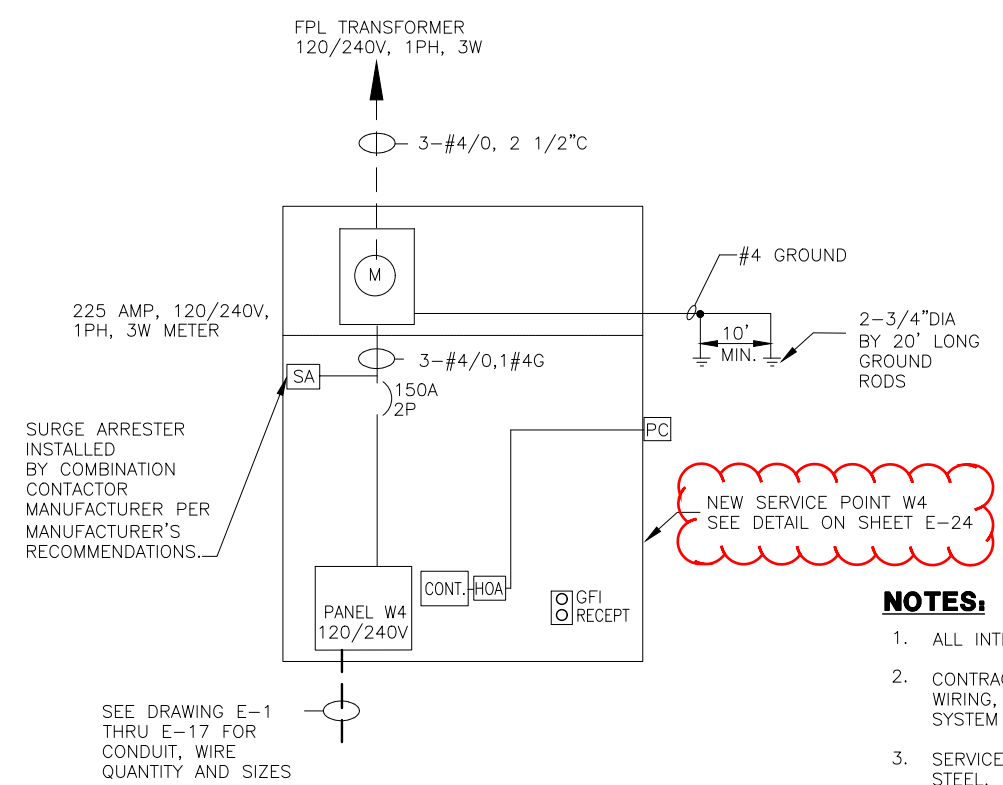
PANELBOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF \_\_\_\_\_,000 AMPS SYMMETRICAL.

APPROVED MFR'S. SQUARE D, GE, CUTLER-HAMMER, COPPER BUSSES MAIN LUGS \_\_\_\_\_ SETS SIZE: \_\_\_\_\_

**SERVICE POINT 'W4' DATA**

DESCRIPTION	TOTAL AMPS	TOTAL KVA
LOAD	17.1	4.1

SERVICE CALCULATION  
(17.1A X 1.25) = 21.4A  
150A MAIN BREAKER

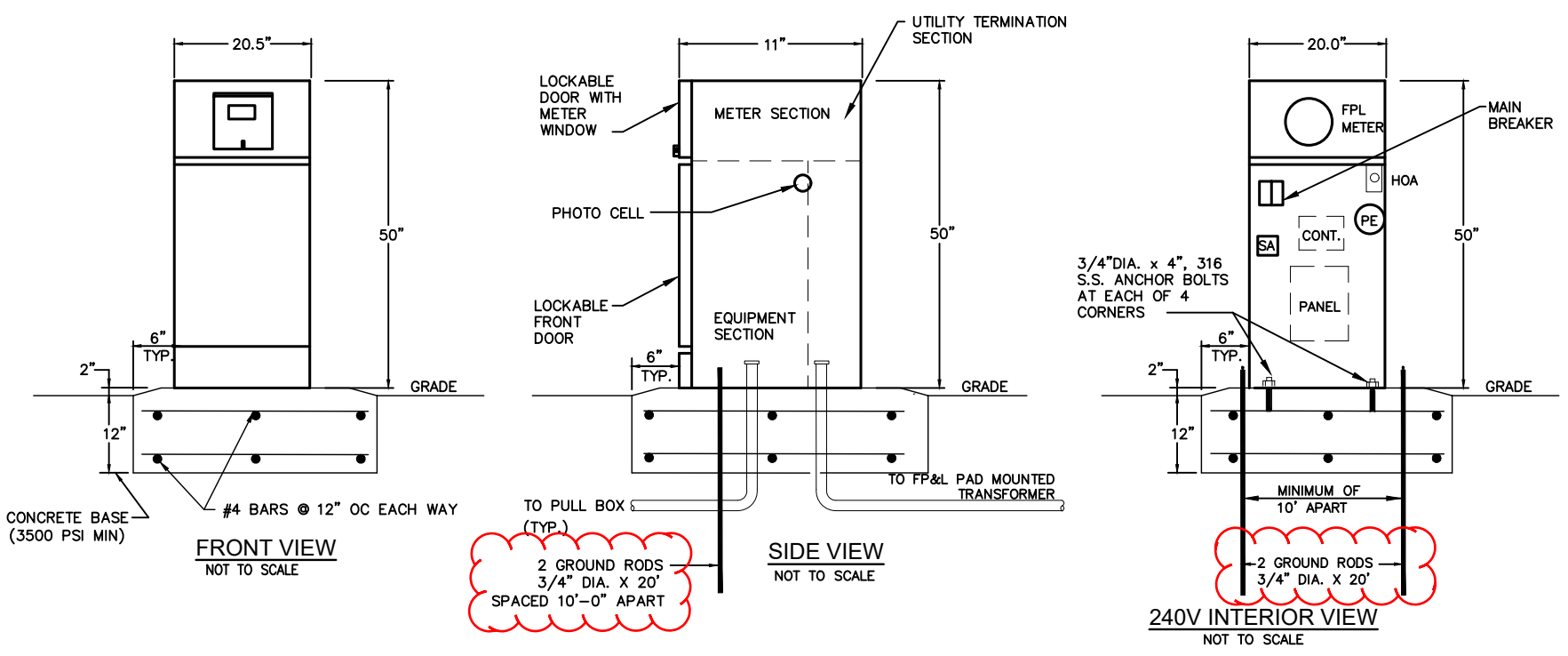


**SERVICE POINT 'W4' ONE LINE DIAGRAM**  
120/240V, 1 PHASE, 3 WIRE

**NOTES:**

- ALL INTERIOR WIRING SHALL BE SIZE AS PER NEC CODE.
- CONTRACTOR SHALL PROVIDE ALL CIRCUIT BREAKERS, INTERIOR WIRING, GROUNDING RODS, ETC. FOR A COMPLETE WORKING SYSTEM IN PLACE.
- SERVICE POINT CABINET SHALL BE NEMA 4X, 316 STAINLESS STEEL.
- SERVICE POINT CABINET SHALL BE BUILT BY AN APPROVED UL SHOP AND CARRY A UL LABEL ON THE PANEL AND EQUIPMENT.

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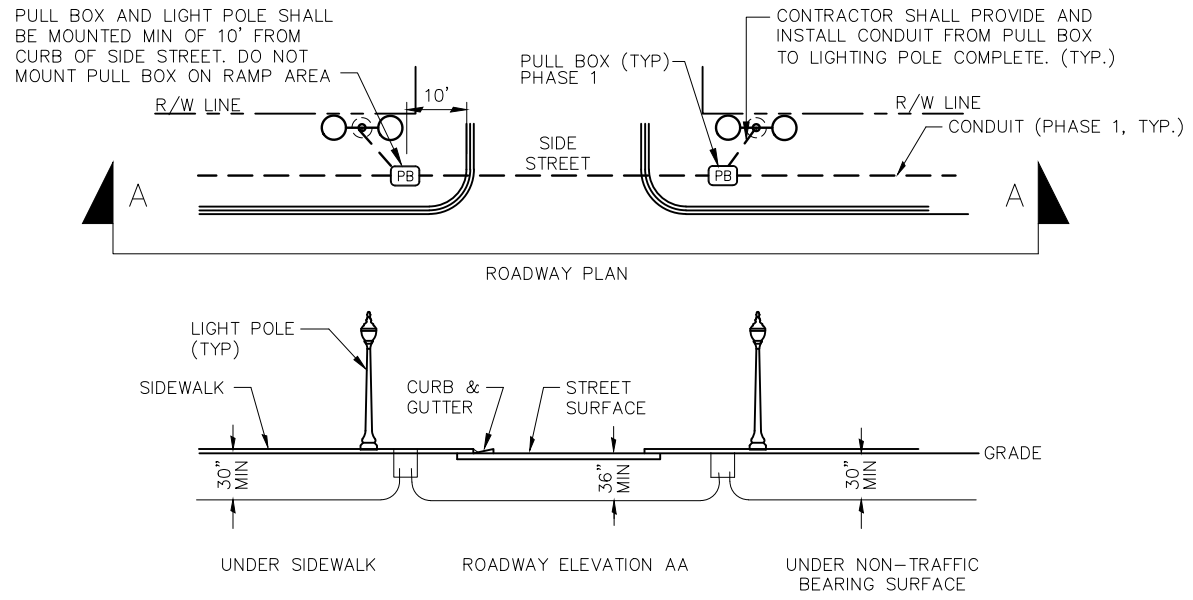
**SERVICE POINT DETAIL**  
NOT TO SCALE

NOTE: CONTRACTOR SHALL SUBMIT ALONG WITH THE SERVICE POINT SHOP DRAWINGS DETAIL DRAWINGS FOR THE CONCRETE PAD SHOWING REQUIRED STEEL REBAR TO MEETING THE WINDLOADING NOTE ON THIS SHEET.

NOTE: ALL INSTALLATIONS SHALL BE SUITABLE FOR WIND LOAD IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A WIND LOADING CALCULATION SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATION WILL MEET THE WIND LOADING REQUIREMENT.

**GENERAL ELECTRICAL NOTES AND SPECIFICATIONS:**

- CONDUCTOR AND/OR CABLE SHALL BE HOUSED IN 2" SCHEDULE 40 CONDUIT AS SHOWN ON APPROVED PLAN SHEETS. PROVIDE ONE SPARE CONDUIT FOR EACH ROADWAY CROSSING. EACH SPARE CONDUIT SHALL BE SUPPLIED WITH PULL STRING.
- CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND MARK UNDERGROUND FACILITIES PRIOR TO EXCAVATION.
- PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET THE MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN THE MANUFACTURER'S REQUIREMENTS.
- ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE ADOPTED LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE AND THE STATE OF FLORIDA BUILDING CODE. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
- IN LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO LIGHTING POLES OR CONDUIT RUNS, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL HAND DIG THE FIRST 4' OF THE HOLE FOUNDATION AND CONDUIT RUN.
- THE WIRES AT THE POLE HAND HOLES AND PULL BOXES SHALL BE LOOPED IN THE POLE AND PULL BOXES WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS AND SPLICES ONE (1.00) FOOT OUTSIDE THE HAND HOLE AND PULL BOXES TO MAKE CONNECTIONS AND SPLICES ACCESSIBLE FOR CHANGING FUSES AND TROUBLESHOOTING THE SYSTEM.
- ALL CONDUCTOR AND/OR WIRE CONNECTIONS SHALL BE BUTT SPLICED AND WATERPROOF. WIRE NUTS WILL NOT BE ACCEPTED.
- EACH POLE SHALL BE EQUIPPED WITH AN ACCESSIBLE FUSE AND WATER PROOF FUSE HOLDER WITH PROTECTIVE BOOTS. FUSE SHALL BE SIZED ACCORDING TO THE LOAD AT THE POLE AND THE NEC.
- EACH POLE SHALL BE EQUIPPED WITH A LIGHTNING SURGE ARRESTOR (SURRESTOR) THAT IS PROPERLY GROUNDED.
- A PULL BOX SHALL BE INSTALLED AT EACH POLE LOCATION. PULL BOX SHOULD BE LOCATED 2" MAX FROM POLE UNLESS OTHERWISE DIRECTED BY PROJECT ENGINEER. EACH PULL BOX SHALL BE SUPPLIED WITH A GROUNDING ROD AND EACH POLE SHALL BE PROPERLY GROUNDED.
- ALL LIGHTING PULL BOXES SHALL BE ARMORCAST PRODUCTS COMPANY #A6001946TAPXX12 POLYMER CONCRETE BOX WITH NON-METALLIC LID AND NON-SKID SURFACE. LID MUST BE STAMPED "LIGHTING". BOX DIMENSIONS ARE 13W X 24L X 12H. 20K WITH OPEN BOTTOM. LID MUST BE FASTENED TO BOX.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND ALL EXISTING UTILITIES, INCLUDING OVERHEAD POWER LINES.
- LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO EXCAVATION.
- CONTACT SUNSHINE ONE CALL OF FLORIDA AT 811 OR SUNSHINE811.COM AT LEAST TWO (2) FULL BUSINESS DAYS BEFORE DIGGING.
- THE LIGHTING SYSTEM WILL BE MAINTAINED BY THE CITY ONLY AFTER FINAL ACCEPTANCE.
- ALL LIGHTING PLANS, SUBMITTAL DATA AND LIGHTING SHOP DRAWINGS SHALL BE APPROVED BY VILLAGE OF ROYAL PALM BEACH PRIOR TO THEIR USE. NO CHANGES TO THE APPROVED LIGHTING PLAN, EQUIPMENT SPECIFICATIONS OR INSTALLATION DETAILS SHALL BE MADE WITHOUT PRIOR APPROVAL BY VILLAGE OF ROYAL PALM BEACH.
- ALL POLE INSTALLATIONS SHALL BE SUITABLE FOR WIND LOADING OF 170MPH MINIMUM OR AS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A POLE WIND LOADING CALCULATION SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATION WILL MEET THE WIND LOADING REQUIREMENT.
- MINIMUM BURIAL DEPTH OF CONDUIT SHALL BE 24 INCHES AND 36 INCHES UNDER PAVED SURFACES. 3" WIDE ELECTRICAL CAUTION TAPE SHALL BE INSTALLED 8" BELOW GRADE ABOVE ALL ELECTRICAL CONDUITS.
- CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION, RATED 600V. SIZES SHOWN ARE MINIMUM. MINIMUM SIZE SHALL BE #12 AWG AND 3/4-INCH CONDUIT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE THE REQUIRED SUPPORT SYSTEM FOR ALL ELECTRICAL EQUIPMENT. CONTRACTOR SHALL PROVIDE A DRAWING TO SCALE SHOWING THE PROPOSED SUPPORT SYSTEM. ALL INSTALLATIONS SHALL MEET THE WIND LOAD AS PER THE BUILDING CODE.
- PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
- ALL UNDERGROUND CONDUITS SHALL SCHEDULE 40 PVC AND ALL OUTDOOR EXPOSED CONDUIT SHALL BE SCHEDULE 80 PVC.
- LIGHT POLES SHALL BE INSTALLED MIN. 5' FROM AWAY FROM WATER OR DRAINAGE PIPES. CONTRACTOR SHALL STAKE ALL LIGHTING POLE LOCATIONS AND NOTIFY THE OWNER/ENGINEER FOR APPROVAL OF LOCATIONS PRIOR TO INSTALLATIONS.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, POLES, CIRCUIT BREAKERS, PANELS, CONDUIT AND WIRE, STAINLESS STEEL HARDWARE, GROUND RODS, EXOTHERMIC WELD MATERIAL AND STANDARD MOLDS, SUBMERSIBLE CONNECTORS, IN-LINE FUSE HOLDERS AND FUSES.
- CONTRACTOR SHALL, WITHIN 30 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, PROVIDE TO THE BUILDING OWNER RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING A SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM AND RELATED FLOOR PLANS INDICATING THE LOCATION AND AREA SERVED FOR THE DISTRIBUTION.
- CONTRACTOR SHALL PROVIDE TO THE OWNER AN OPERATING AND MAINTENANCE MANUAL IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION C405.5.4.2 OF THE 2020 7TH ED. FLORIDA BUILDING CODE - ENERGY CONSERVATION, INCLUDING ANY AMENDMENTS THERETO.
- ALL PANELBOARDS, CONTROL CABINETS, DISCONNECT SWITCHES, ETC. SHALL BE LABELED WITH RAISED LABEL WITH BLACK BACKGROUND AND WHITE LETTERING.
- ALL ELECTRICAL/LIGHTING CONDUITS SHALL HAVE MINIMUM 5'-0" SEPARATION FROM ALL UNDERGROUND UTILITIES INCLUDING LIGHT POLES (USM 16-5).
- THESE DRAWINGS DO NOT SHOW EVERY MINOR DETAIL OF CONSTRUCTION. PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE, OPERATIONAL, AND FUNCTIONAL PROJECT.
- CONTRACTOR SHALL PAY ALL APPLICABLE FEES FOR PERMITS, INSPECTIONS, AND TESTING.
- CORRECTION OF ANY DEFECTS OR DAMAGE TO EXISTING SYSTEMS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY PHASE OF WORK OR EXISTING SYSTEMS WHICH MAY HAVE BEEN DAMAGED.
- CONTRACTOR SHALL PERFORM ALL WORK IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED WORK AND ALL SYSTEMS SHALL BE FULLY OPERATIONAL FOR ACCEPTANCE BY THE ENGINEER AND THE OWNER.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN TWO YEARS UNLESS NOTED LONGER FROM DATE OF FINAL COMPLETION BY SPECIFICATIONS.
- ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED AND BE U.L. LISTED WHERE AVAILABLE OR LISTED BY ANOTHER CERTIFIED TESTING AGENCY.
- ALL MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.
- ALL LUMINAIRES AND LIGHTING POLES SHALL BE PROVIDED IN ACCORDANCE WITH DETAILS AND FIXTURE SCHEDULE. LUMINAIRES MOUNTING HEIGHT SHALL BE ABOVE GRADE AS INDICATED.
- DO NOT SCALE ELECTRICAL DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. VERIFY FIELD CONDITIONS AND PROVIDE ENGINEER SCALED DRAWINGS OF PROPOSED EQUIPMENT LOCATIONS FOR APPROVAL PRIOR TO INSTALLATION. PROVIDE MARKED UP AS-BUILTS AT SUBSTANTIAL COMPLETION. PROVIDE CERTIFIED AS-BUILT DRAWINGS BY LICENSED SURVEY OF ALL POLES AND UNDERGROUND CONDUIT PROVIDED BY THIS CONTRACT. PROVIDE CERTIFIED PHOTOMETRICS AS-BUILT DRAWINGS.
- SMITH ENGINEERING CONSULTANTS IS RESPONSIBLE FOR THE DESIGN OF THE ELECTRICAL SERVICE AND DISTRIBUTION TO THE LIGHT POLES. LIGHT POLE AND FIXTURE SELECTION, POLE LOCATIONS, AND ILLUMINATION CALCULATIONS (PHOTOMETRICS) WERE PERFORMED BY OTHERS.



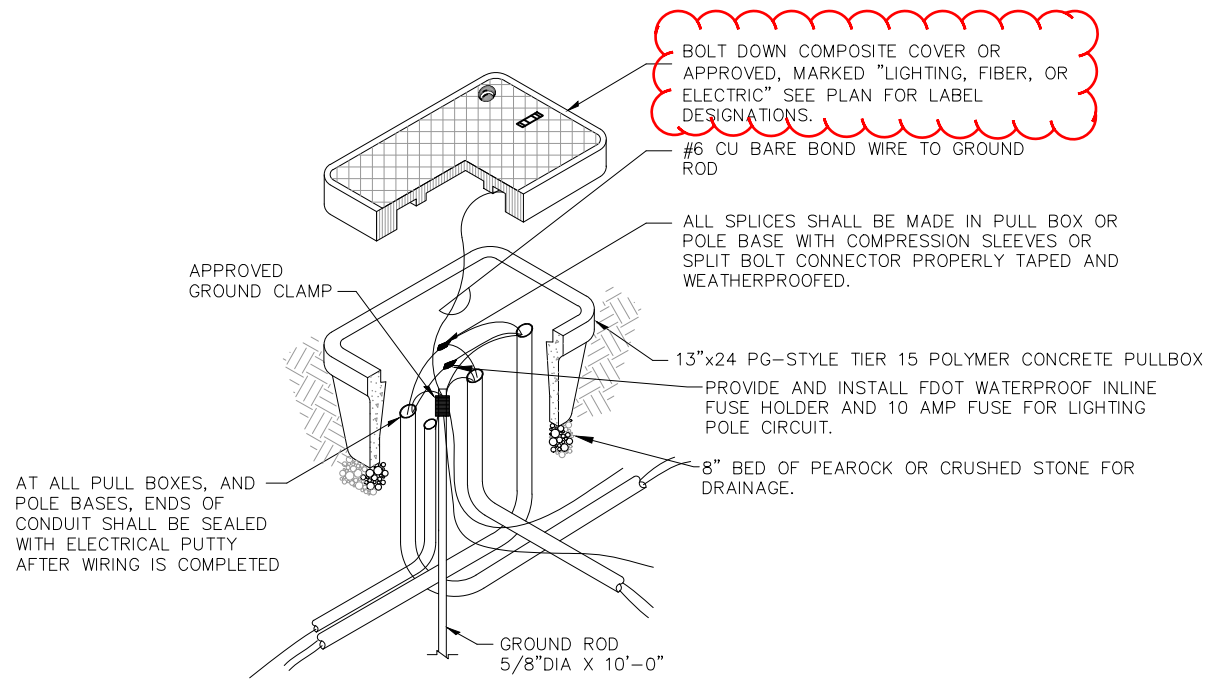
**ROADWAY CONDUIT & PULL BOX LAYOUT**  
N.T.S.

NOTE: REFER TO FDOT DESIGN STANDARDS 17721 FOR ADDITIONAL CONDUIT INSTALLATION REQUIREMENTS.

Addendum 5 Revisions:  
Size of ground rods have been corrected.

LARRY M. SMITH, PE FL. REG 45997

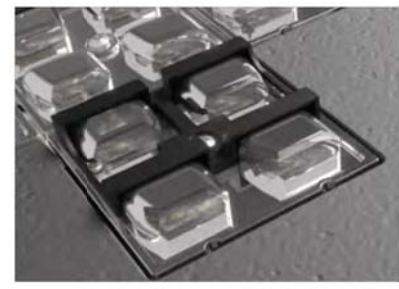
**SEC** Smith Engineering  
Consultants, Inc.  
State Auth. #8228  
2161 Palm Beach Lakes Blvd., Suite 312  
West Palm Beach, FL 33409  
(561) 616-3911 Fax (561) 616-3912  
www.smithengineeringconsultants.com



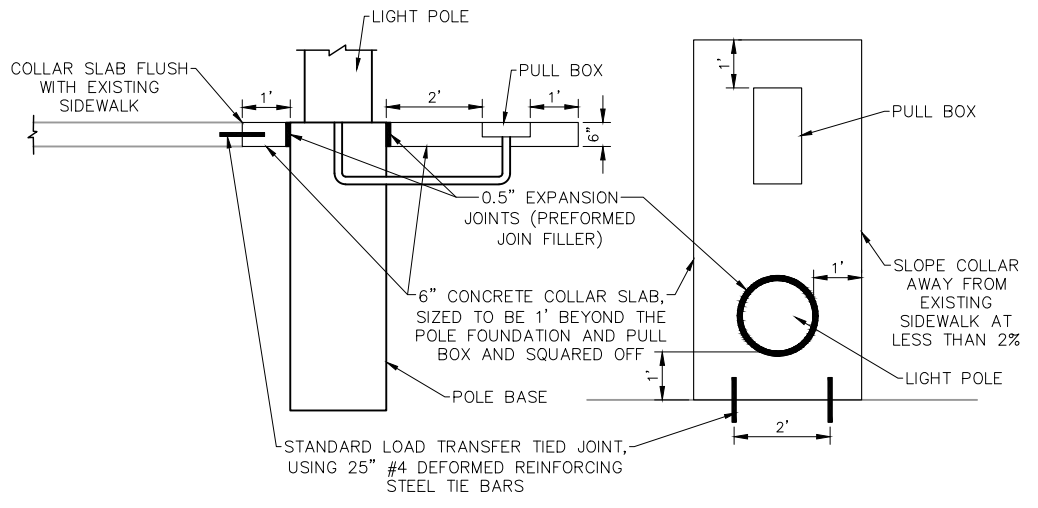
**ELECTRICAL PULL BOX DETAIL**  
N.T.S.

- NOTES:
- PULL BOX SHALL BE INSTALLED AT EACH LIGHT POLE, ON EACH SIDE OF ROADWAY CROSSINGS AND AS NEEDED FOR PULLING DISTANCE WHETHER SHOWN ON PLAN OR NOT.
  - CONTRACTOR SHALL PROVIDE 8' OF EXTRA CONDUCTOR IN PULL BOXES COILED NEATLY.

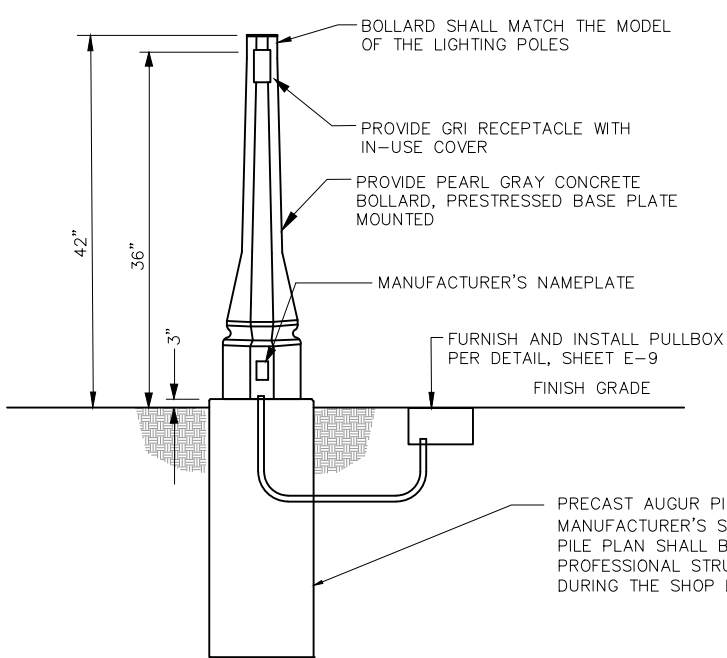
- Suitable for P4 engine with no lens, plus sag, shallow or deep dish lens
- Factory installed house side lighting control
- Shield coverage of 150°
- Virtually invisible to the eye; eliminating the need of a large unsightly reflector



**LOW PROFILE HOUSE SIDE SHIELD**



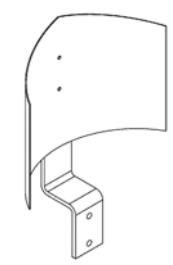
**LIGHT POLE COLLAR DETAIL**  
N.T.S.



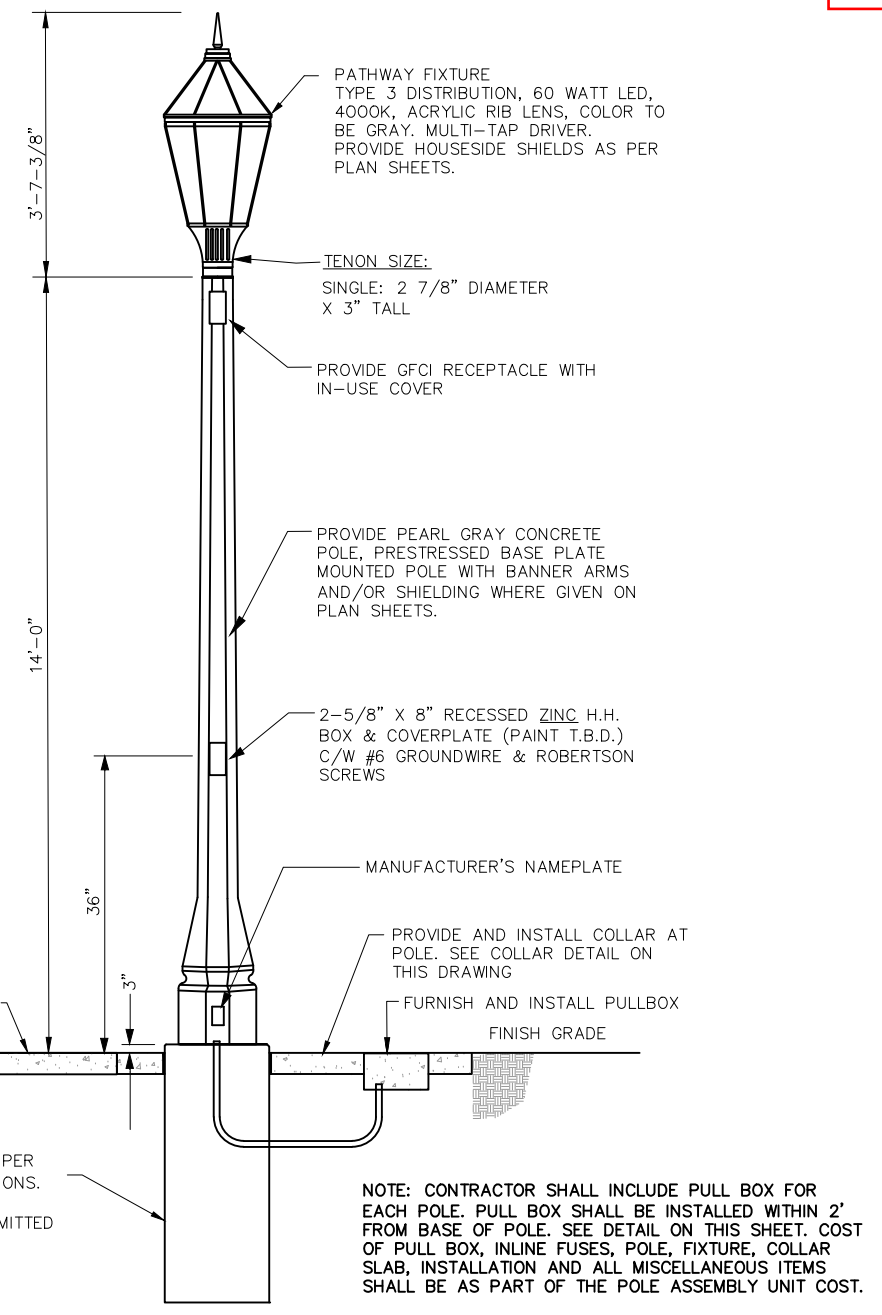
**PATHWAY RECEPTACLE BOLLARD DETAIL**  
N.T.S.

- Available for production of new luminaires
- Suitable for field installation into luminaires that have HSS tower holes located in the bottom portion of the optical system tower
- Available for all distribution patterns
- Shield coverage of 120°

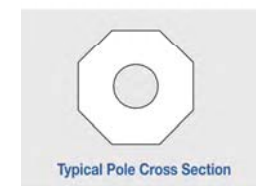
Field installation into existing luminaires: Shield is easily secured to the lower portion of the tower using pre-existing HSS tower holes.



**HOUSE SIDE SHIELD**



**PATHWAY LIGHTING POLE DETAIL**  
N.T.S.



**WINDLOAD NOTE:**

ALL POLE INSTALLATIONS SHALL BE SUITABLE FOR WIND LOAD IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A POLE WIND LOADING CALCULATION SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATION WILL MEET THE WIND LOADING REQUIREMENT.

Addendum 5 Revisions:  
Removed references to Auger Pile Detail and Spread Footing. Removed note in pull box detail that required Copper Keeper (this has been changed to an Add/Alt).  
Added electric and fiber labels for pull boxes.

LARRY M. SMITH, PE FL. REG 45997

