



INVITATION TO BID (ITB) & RESPONDENT'S ACKNOWLEDGEMENT

ITB TITLE:

Turtle Friendly Lighting Retrofits on Conservation Lands

ITB NUMBER:

ITB TDD 02-19

ISSUE DATE:

January 21, 2019 8:00 A.M. cst

PRE-BID MEETING:

January 30, 2019 9:00 A.M. cst

LAST DAY FOR QUESTIONS:

February 4, 2019 3:00 P.M. cst

ITB OPENING DATE & TIME:

February 20, 2019 3:15 P.M. cst

NOTE: BIDS RECEIVED AFTER THE BID OPENING DATE & TIME WILL NOT BE CONSIDERED.

Okaloosa County, Florida solicits your company to submit a bid on the above referenced goods or services. All terms, specifications and conditions set forth in this ITB are incorporated into your response. A bid will not be accepted unless all conditions have been met. All bids must have an authorized signature in the space provided below. All bids must be sealed and received by the Okaloosa County Clerk of Court by the "ITB Opening Date & Time" referenced above. All envelopes containing sealed bids must reference the "ITB Title", "ITB Number" and the "ITB Opening Date & Time". Okaloosa County is not responsible for lost or late delivery of bids by the U.S. Postal Service or other delivery services used by the respondent. Neither faxed nor electronically submitted bids will be accepted. Bids may not be withdrawn for a period of ninety (90) days after the bid opening unless otherwise specified.

RESPONDENT ACKNOWLEDGEMENT FORM BELOW MUST BE COMPLETED, SIGNED, AND RETURNED AS PART OF YOUR BID. BIDS WILL NOT BE ACCEPTED WITHOUT THIS FORM, SIGNED BY AN AUTHORIZED AGENT OF THE RESPONDENT.

COMPANY NAME _____

MAILING ADDRESS _____

CITY, STATE, ZIP _____

FEDERAL EMPLOYER'S IDENTIFICATION NUMBER (FEIN): _____

TELEPHONE NUMBER: _____ EXT: _____ FAX: _____

EMAIL: _____

I CERTIFY THAT THIS BID IS MADE WITHOUT PRIOR UNDERSTANDING, AGREEMENT, OR CONNECTION WITH ANY OTHER RESPONDENT SUBMITTING A BID FOR THE SAME MATERIALS, SUPPLIES, EQUIPMENT OR SERVICES, AND IS IN ALL RESPECTS FAIR AND WITHOUT COLLUSION OR FRAUD. I AGREE TO ABIDE BY ALL TERMS AND CONDITIONS OF THIS BID AND CERTIFY THAT I AM AUTHORIZED TO SIGN THIS BID FOR THE RESPONDENT.

AUTHORIZED SIGNATURE: _____ TYPED OR PRINTED NAME _____

TITLE: _____ DATE _____

NOTICE TO RESPONDENTS

ITB TDD 02-19

Notice is hereby given that the Board of County Commissioners of Okaloosa County, FL, will accept sealed bids until **3:15 P.M. on February 20, 2019** for **Turtle Friendly Lighting Retrofits on Conservation Lands**.

Interested respondents desiring consideration shall provide one (1) original and two (2) copies (total of 3) of their Invitation to Bids (ITB) response with the respondent's areas of expertise identified. Submissions shall be portrait orientation, unbound, and 8 ½" x 11" where practical.

All originals must have original signatures in blue ink. Bid documents are available for download by accessing the Okaloosa County website at <http://www.myokaloosa.com/purchasing/home> then accessing the link "View Current Solicitations" or by accessing the Florida Purchasing Group website at <http://www.bidnetdirect.com/florida>.

At **3:15 P.M. on February 20, 2019**, all bids will be opened and read aloud. All bids must be in sealed envelopes reflecting on the outside thereof the Respondent's name and "**Turtle Friendly Lighting Retrofits on Conservation Lands.**" The County will consider all bids properly submitted at its scheduled bid opening in the– **Crestview Courthouse** located at 101 E. James Lee Boulevard, #288, Crestview, FL 32536. Bids may be submitted prior to bid opening by being delivered in person or by mail to the Clerk of Circuit Court, 101 E. James Lee Boulevard, #278, Crestview, FL 32536.

A Pre-Bid Conference will be conducted at the Okaloosa County Visitor's Center, 1540 Miracle Strip Parkway SE, Fort Walton Beach, FL 32548, at January 30, 2019 at 9:00 am (CST).

****NOTE: MUST RING DOORBELL TO GAIN ENTRANCE INTO ROOM 288. THE CLERK WILL COME ACCEPT YOUR PACKAGE OR SHOW YOU TO THE CONFERENCE ROOM FOR THE SCHEDULED BID OPENING****

NOTE: THE NEW CRESTVIEW COURTHOUSE HAS SECURITY AT ENTRY POINT-PLEASE ALLOW FOR TIME TO GET THROUGH SECURITY WHEN ARRIVING FOR THE BID OPENING.

NOTE: Crestview, FL is not a next day guaranteed delivery location by most delivery services. Respondents using mail or delivery services assume all risks of late or non-delivery.

The County reserves the right to award the bid to the lowest responsive respondent and to waive any irregularity or technicality in bids received. Okaloosa County shall be the sole judge of the bid and the resulting Agreement that is in its best interest and its decision shall be final.

Any Respondent failing to mark outside of the envelope as set forth herein may not be entitled to have their bid considered.

All bids should be addressed as follows:

Turtle Friendly Lighting Retrofits on Conservation Lands
ITB TDD 02-19

Clerk of Circuit Court
Attn: BCC Records
Crestview Courthouse
101 E. James Lee Boulevard
Crestview FL 32536

Jeffrey Hyde
Purchasing Manager

Date

OKALOOSA COUNTY
BOARD OF COUNTY COMMISSIONERS

Charles K. Windes, Jr.
Chairman

BID REQUIREMENTS

BID #: ITB TDD 02-19

BID ITEM: Turtle Friendly Lighting Retrofits on Conservation Lands

SCOPE OF WORK:

To replace, modify, and/or upgrade existing building mounted lighting and parking lot lighting at various locations on Conservation Lands, specifically at the Okaloosa County Island Pier/Boardwalk, John C. Beasley Park, Newman C. Brackin Wayside Park and James Lee Park as indicated in the Contract Documents. These improvements are intended to reduce the impacts of artificial lighting to loggerhead sea turtles nesting in the project areas.

SPECIFICATIONS:

1. All luminaires and mounting/installation methods shall be in conformance with Florida Fish and Wildlife Conservation (FWC) recommended products and practices.
2. LED's shall emit true amber (or red if specified) without the use of filters. Acceptable wavelengths of light are in the 560 nm range or longer.
3. Luminaires shall be cutoff, full cutoff, and/or shielded and positioned to focus light where it is needed.
4. All electrical work shall be in accordance with the National Electrical Code and applicable state and local codes and ordinances.
5. Additional requirements and guidance regarding turtle friendly lighting can be obtained from www.myfwc.com.

Contractor must be able to:

1. Be currently listed and in good standing with the state of Florida and provide proof of proper licensing for the project scope and specification..

TERM – Upgrades to the existing building mounted lighting and parking lot lighting shall be completed within one hundred twenty (120) days from the issuance of a Notice to Proceed.

PAYMENT – The contractor shall be paid upon receipt of services and submission of invoice, through the requesting department to the Okaloosa County Board of County Commissioners, Finance Office, 302 N Wilson St, Suite #203, Crestview, FL 32536 for the prices stipulated herein for services offered and accepted. All invoices must show the County contract number.

INFORMATION – Questions about this ITB shall be directed to Jeffrey Hyde, Purchasing department, jhyde@myokaloosa.com. Any changes by the County to specifications shall be in writing in the form of an addendum and furnished to all bidders. Verbal information obtained otherwise will not be considered in awarding of bids.

GENERAL SERVICES INSURANCE REQUIREMENTS

REVISED: 08/01/2018

BONDING REQUIREMENTS

1. **Bid Bond:** A bid bond, in the form prescribed, Cashier's or Certified check, is required in an amount not less than five percent (5%) of the total contract amount. The Bid Bond must be attached to the bid.
2. **Performance and Payment Bond:** The successful Respondent shall furnish to the County, without extra compensation, and shall maintain in effect throughout the life of the Contract, and for the duration of the period described in the bond, acceptable Performance and Payment bonds in sums at least equal to the full amount of the Contract, conditioned to indemnify and save harmless the County from and against any loss, damage, or expense ensuing from failure on the part of the Contractor to faithfully and properly perform the Contract or to promptly pay all its subcontractors, suppliers, material, men or laborers for work completed on the Project. The required forms for the performance and payment bonds are included herein.

If within ten (10) calendar days after the acceptance of the bid, the successful Respondent shall refuse or neglect to execute the contract and to furnish the required performance and payment bonds properly signed by the Respondent and the surety or sureties satisfactorily to the County, the Respondent shall be deemed to be in default and the County will retain the bid surety as liquidated damages, but not as a penalty. The County reserves the option to accept the bid of any of the other Respondents within ten (10) calendar days from default, in which case such acceptance shall have the same effect on such Respondent as though they were the original, successful Respondent.

CONTRACTORS INSURANCE

1. The Contractor shall not commence any work in connection with this Agreement until he has obtained all required insurance and such insurance has been approved by the Okaloosa County Risk Manager or designee.
2. All insurance policies shall be with insurers authorized to do business in the State of Florida.
3. All insurance shall include the interest of all entities named and their respective officials, employees & volunteers of each and all other interests as may be reasonably required by Okaloosa County. The coverage afforded the Additional Insured under this policy shall be primary insurance. If the Additional Insured have other insurance that is applicable to the loss, such other insurance shall be on an excess or contingent basis. The amount of the company's liability under this policy shall not be reduced by the existence of such other insurance.
4. Where applicable, the County shall be shown as an Additional Insured with a Waiver of Subrogation on the Certificate of Insurance.
5. The County shall retain the right to reject all insurance policies that do not meet the requirement of this Agreement. Further, the County reserves the right to change these insurance requirements with sixty (60) days' notice to the Contractor.

6. The County reserves the right at any time to require the Contractor to provide copies (redacted if necessary) of any insurance policies to document the insurance coverage specified in this Agreement.
7. The designation of Contractor shall include any associated or subsidiary company which is involved and is a part of the contract and such, if any associated or subsidiary company involved in the project must be named in the Workers' Compensation coverage.
8. Any exclusions or provisions in the insurance maintained by the Contractor that excludes coverage for work contemplated in this agreement shall be deemed unacceptable and shall be considered breach of contract.

WORKERS' COMPENSATION INSURANCE

1. The Contractor shall secure and maintain during the life of this Agreement Workers' Compensation insurance for all of his employees employed for the project or any site connected with the work, including supervision, administration or management, of this project and in case any work is sublet, with the approval of the County, the Contractor shall require the Subcontractor similarly to provide Workers' Compensation insurance for all employees employed at the site of the project, and such evidence of insurance shall be furnished to the County not less than ten (10) days prior to the commencement of any and all sub-contractual Agreements which have been approved by the County.
2. Contractor must be in compliance with all applicable State and Federal workers' compensation laws, including the U.S. Longshore Harbor Workers' Act or Jones Act, if applicable.
3. No class of employee, including the Contractor himself, shall be excluded from the Workers' Compensation insurance coverage. The Workers' Compensation insurance shall also include Employer's Liability coverage.

BUSINESS AUTOMOBILE LIABILITY

Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than \$1,000,000 combined single limit each accident. If the contractor does not own vehicles, the contractor shall maintain coverage for Hired & Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Policy. Contractor must maintain this insurance coverage throughout the life of this Agreement.

COMMERCIAL GENERAL LIABILITY INSURANCE

1. The Contractor shall carry other Commercial General Liability insurance against all other Bodily Injury, Property Damage and Personal and Advertising Injury exposures.
2. All liability insurance (other than Professional Liability) shall be written on an occurrence basis and shall not be written on a claims-made basis. If the insurance is issued with an aggregate limit of liability, the aggregate limit of liability shall apply only to the locations included in this Agreement. If, as the result of any claims or other reasons, the available limits of insurance reduce to less than those stated in the Limits of Liability, the Contractor shall notify the County representative in writing. The Contractor shall purchase additional liability insurance to maintain the requirements established in this Agreement. Umbrella or Excess Liability insurance can be

purchased to meet the Limits of Liability specified in this Agreement.

3. Commercial General Liability coverage shall include the following:

- 1.) Premises & Operations Liability
- 2.) Bodily Injury and Property Damage Liability
- 3.) Independent Contractors Liability
- 4.) Contractual Liability
- 5.) Products and Completed Operations Liability

4. Contractor shall agree to keep in continuous force Commercial General Liability coverage for the length of the contract.

LIMITS OF LIABILITY

The insurance required shall be written for not less than the following, or greater if required by law and shall include Employer's liability with limits as prescribed in this contract:

	<u>LIMIT</u>
1. Worker's Compensation	
1.) State	Statutory
2.) Employer's Liability	\$500,000 each accident
2. Business Automobile	\$1,000,000 each accident (A combined single limit)
3. Commercial General Liability	\$1,000,000 each occurrence for Bodily Injury & Property Damage \$1,000,000 each occurrence Products and completed operations
4. Personal and Advertising Injury	\$1,000,000 each occurrence

NOTICE OF CLAIMS OR LITIGATION

The Contractor agrees to report any incident or claim that results from performance of this Agreement. The County representative shall receive written notice in the form of a detailed written report describing the incident or claim within ten (10) days of the Contractor's knowledge. In the event such incident or claim involves injury and/or property damage to a third party, verbal notification shall be given the same day the Contractor becomes aware of the incident or claim followed by a written detailed report within ten (10) days of verbal notification.

INDEMNIFICATION & HOLD HARMLESS

Contractor shall indemnify and hold harmless the County, its officers and employees from liabilities, damages, losses, and costs including but not limited to reasonable attorney fees, to the extent caused by the negligence, recklessness, or wrongful conduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this contract.

Note: For Contractor's convenience, this certification form is enclosed and is made a part of the bid package.

CERTIFICATE OF INSURANCE

1. Certificates of insurance indicating the job site and evidencing all required coverage must be submitted not less than 10 days prior to the commencement of any of the work. The certificate holder(s) shall be as follows: Okaloosa County, 5479A Old Bethel Road, Crestview, Florida, 32536.
2. The contractor shall provide a Certificate of Insurance to the County with a thirty (30) day notice of cancellation; ten (10 days' notice if cancellation is for nonpayment of premium).
3. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of the contractor to provide the proper notice. Such notification shall be in writing by registered mail, return receipt requested, and addressed to the Okaloosa County Purchasing Department at 5479-A Old Bethel Road, Crestview, FL 32536.
4. In the event the contract term goes beyond the expiration date of the insurance policy, the contractor shall provide the County with an updated Certificate of insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The County reserves the right to suspend the contract until this requirement is met.
5. The certificate shall indicate if coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the certificate will show a retroactive date, which should be the same date of the initial contract or prior.
6. All certificates shall be subject to Okaloosa County's approval of adequacy of protection and the satisfactory character of the Insurer.
7. All deductibles or SIRs, whether approved by Okaloosa County or not, shall be the Contractor's full responsibility. In particular, the Contractor shall afford full coverage as specified herein to entities listed as Additional Insured.
8. In no way will the entities listed as Additional Insured be responsible for, pay for, be damaged by, or limited to coverage required by this schedule due to the existence of a deductible or SIR.

GENERAL TERMS

Any type of insurance or increase of limits of liability not described above which, the Contractor required for its own protection or on account of statute shall be its own responsibility and at its own expense.

Any exclusions or provisions in the insurance maintained by the contractor that excludes coverage for work contemplated in this contract shall be deemed unacceptable and shall be considered breach of contract.

The carrying of the insurance described shall in no way be interpreted as relieving the Contractor of any responsibility under this contract.

Should the Contractor engage a subcontractor or sub-subcontractor, the same conditions will apply under this Agreement to each subcontractor and sub-subcontractor.

The Contractor hereby waives all rights of subrogation against Okaloosa County and its consultants and other indemnities of the Contractor under all the foregoing policies of insurance.

UMBRELLA INSURANCE

The Contractor shall have the right to meet the liability insurance requirements with the purchase of an umbrella insurance policy. In all instances, the combination of primary and umbrella liability coverage must equal or exceed the minimum liability insurance limits stated in this Agreement.

GENERAL BID CONDITIONS

PRE-BID ACTIVITY -

Except as provided in this section, respondents are prohibited from contacting or lobbying the County, County Administrator, Commissioners, County staff, and Review Committee members, or any other person authorized on behalf of the County related or involved with the solicitation. All inquiries on the scope of work, specifications, additional requirements, attachments, terms and general conditions or instructions, or any issue must be directed in writing, by US mail or email to:

Okaloosa County Purchasing Department
5479A Old Bethel Road
Crestview, FL 32536
Email: jhyde@myokaloosa.com
(850) 689-5960

All questions or inquiries must be received no later than the last day for questions (reference ITB & Respondent's Acknowledgement form). Any addenda or other modification to the bid documents will be issued by the County five (5) days prior to the date and time of bid closing, as written addenda, and will be posted to and the Okaloosa County website at <http://www.myokaloosa.com/purchasing/current-solicitations> and the Bidnet website at <https://www.bidnetdirect.com/florida>.

Such written addenda or modification shall be part of the bid documents and shall be binding upon each respondent. Each respondent is required to acknowledge receipt of any and all addenda in writing and submit with their bid. No respondent may rely upon any verbal modification or interpretation.

PREPARATION OF BID – The bid form is included with the bid documents. Additional copies may be obtained from the County. The respondent shall submit bids in accordance with the public notice.

All blanks in the bid documents shall be completed by printing in ink or by typewriter in both words and numbers with the amounts extended, totaled and the bid signed. A bid price shall be indicated for each section, bid item, alternative, adjustment unit price item, and unit price item listed therein, or the words “No Bid”, “No Change”, or “Not Applicable” entered. No changes shall be made to the phraseology of the form or in the items mentioned therein. In case of any discrepancy between the written amount and the numerical figures, the written amount shall govern. Any bid which contains any omissions, erasures, alterations, additions, irregularities of any kind, or items not called for which shall in any manner fail to conform to the conditions of public notice inviting bids may be rejected.

A bid submitted by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature). The official address of the partnership shall be shown below the signature.

A bid submitted by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm must be shown below the signature.

A bid submitted by an individual shall show the respondent's name and official address.

A bid submitted by a corporation shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm must be shown below the signature.

A bid submitted by a joint venture shall be executed by each joint venture in the manner indicated on the bid form. The official address of the joint venture must be shown below the signature.

It is preferred that all signatures be in blue ink with the names type or printed below the signature. Okaloosa County does not accept electronic signatures.

The bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the form. The address and telephone # for communications regarding the bid shall be shown.

If the respondent is an out-of-state corporation, the bid shall contain evidence of respondent's authority and qualification to do business as an out-of-state corporation in the State of Florida. A state contractor license # for the State of Florida shall also be included on the bid form. Respondent shall be licensed in accordance with the requirements of Chapter 489, Florida Statutes.

INTEGRITY OF BID DOCUMENTS - Respondents shall use the original Bid documents provided by the Purchasing Department and enter information only in the spaces where a response is requested. Respondents may use an attachment as an addendum to the Bid documents if sufficient space is not available. Any modifications or alterations to the original bid documents by the respondent, whether intentional or otherwise, will constitute grounds for rejection of a bid. Any such modification or alteration that a respondent wish to propose must be clearly stated in the respondent's response in the form of an addendum to the original bid documents.

SUBMITTAL OF BID – A bid shall be submitted no later than the date and time prescribed and at the place indicated in the advertisement or invitation to bid and shall be enclosed in an opaque sealed envelope plainly marked with the project title (and, if applicable, the designated portion of the project for which the bid is submitted), the name and address of the respondent, and shall be accompanied by the bid security and other required documents. It is the respondent's responsibility to assure that its bid is delivered at the proper time and place. Offers by telegram, facsimile, or telephone will **NOT** be accepted.

Note: Crestview is not a next day delivery site for overnight carriers.

MODIFICATION & WITHDRAWAL OF BID - A bid may be modified or withdrawn by an appropriate document duly executed in the manner that a bid must be executed and delivered to the place where bids are to be submitted prior to the date and time for the opening of bids.

If within 24 hours after bids are opened any respondent files a duly signed written notice with the County and promptly thereafter demonstrates to the reasonable satisfaction of the County that there was a material substantial mistake in the preparation of its bid, that respondent may withdraw its bid, and the bid security may be returned. Thereafter, if the work is rebid, that respondent will be disqualified from 1) further bidding on the work, and 2) doing any work on the contract, either as a subcontractor or in any other capacity.

BIDS TO REMAIN SUBJECT TO ACCEPTANCE – All bids will remain subject to acceptance or rejection for ninety (90) calendar days after the day of the bid opening, but the County may, in its sole discretion, release any bid and return the bid security prior to the end of this period.

IDENTICAL TIE BIDS - – In cases of identical procurement responses, the award shall be determined either by lot or on the basis of factors deemed to serve the best interest of the County. In the case of the latter, there must be adequate documentation to support such a decision.

CONDITIONAL & INCOMPLETE BIDS - Okaloosa County specifically reserves the right to reject any conditional bid and bids which make it impossible to determine the true amount of the bid.

PRICING – The bid price shall include all equipment, labor, materials, freight, taxes etc. Okaloosa County reserves the right to select that bid most responsive to our needs.

ADDITION/DELETION OF ITEM – The County reserves the right to add or delete any item from this bid or resulting contract when deemed to be in the County’s best interest.

SPECIFICATION EXCEPTIONS – Specifications are based on the most current literature available. Respondent shall clearly list any change in the manufacturer’s specifications which conflict with the bid specifications. Respondent must also explain any deviation from the bid specification in writing, as a foot note on the applicable bid page and enclose a copy of the manufacturer’s specifications data detailing the changed item(s) with their bid. Failure of the respondent to comply with these provisions will result in respondents being held responsible for all costs required to bring the equipment in compliance with bid specifications.

APPLICABLE LAWS & REGULATIONS – All applicable Federal and State laws, County and municipal ordinances, orders, rules and regulations of all authorities having jurisdiction over the project shall apply to the bid throughout, and they will be deemed to be included in the contract the same as though they were written in full therein.

DISQUALIFICATION OF RESPONDENTS - Any of the following reasons may be considered as sufficient for the disqualification of a respondent and the rejection of its bid:

Submission of more than one proposal for the same work from an individual, firm or corporation under the same or different name.

Evidence that the respondent has a financial interest in the firm of another respondent for the same work.

Evidence of collusion among respondents. Participants in such collusion will receive no recognition as respondents for any future work of the County until such participant has been reinstated as a qualified respondent.

Uncompleted work which in the judgment of the County might hinder or prevent the prompt completion of additional work if awarded.

Failure to pay or satisfactorily settle all bills due for labor and material on former contracts in force at the time of advertisement of proposals.

Default under previous contract.

Listing of the respondent by any Local, State or Federal Government on its barred/suspended vendor list.

AWARD OF BID

Okaloosa County Review - Okaloosa County designated Staff will review all bids and will participate in the Recommendation to Award. The intent of the County is to award the total project to one (1) vendor, but reserves the right to make multiple awards.

The County will award the bid to the responsive and responsible vendor(s) with the lowest responsive bid(s), and the County reserves the right to award the bid to the respondent submitting a responsive bid with a resulting negotiated agreement which is most advantageous and in the best interest of the County, and to reject any and all bids or to waive any irregularity or technicality in bids received. Okaloosa County shall be the sole judge of the bid and the resulting negotiated agreement that is in its best interest and its decision shall be final. Okaloosa County reserves the right to waive any informalities or reject any and all bids, in whole or part, to utilize any applicable state contracts in lieu of or in addition to this bid and to accept the bid that in its judgment will best serve the interest of the County.

Okaloosa County specifically reserves the right to reject any conditional bids and will normally reject those which made it impossible to determine the true amount of the bid. Each item must be bid separately and no attempt is to be made to tie any item or items to any other item or items.

PAYMENTS – The respondent shall be paid upon submission of invoices and approval of acceptance by Okaloosa County Board of County Commissioners, Finance Office, 302 N. Wilson St., #203, Crestview FL 32536, for the prices stipulated herein for articles delivered and accepted. Invoices must show Contract #.

DISCRIMINATION - An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not award or perform work as a contractor, supplier, subcontractor, or consultant under contract with any public entity, and may not transact business with any public entity.

PUBLIC ENTITY CRIME INFORMATION - Pursuant to Florida Statute 287.133, a respondent may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. [287.017](#) for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

CONFLICT OF INTEREST - The award hereunder is subject to the provisions of Chapter 112, Florida Statutes. All respondents must disclose with their bids the name of any officer, director, or agent who is also a public officer or an employee of the Okaloosa Board of County Commissioners, or any of its agencies. Furthermore, all respondents must disclose the name of any County officer or employee who owns, directly or indirectly, an interest of five percent (5%) or more in the firm or any of its branches.

Note: For respondent's convenience, this certification form is enclosed and is made a part of the bid package.

REORGANIZATION OR BANKRUPTCY PROCEEDINGS – Bids will not be considered from respondents who are currently involved in official financial reorganization or bankruptcy proceedings.

INVESTIGATION OF RESPONDENT – The County may make such investigations, as it deems necessary to determine the stability of the respondent to perform the work and that there is no conflict of interest as it relates to the project. The respondent shall furnish to the Owner any additional information and financial data for this purpose as the County may request.

CONE OF SILENCE CLAUSE - The Okaloosa County Board of County Commissioners has established a solicitation silence policy (**Cone of Silence Clause**) that prohibits oral and written communication regarding all formal solicitations for goods and services (formal bids, Request for Proposals, Requests for Qualifications) issued by the Board through the County Purchasing Department. The period commences from the date of advertisement until award of contract.

All communications shall be directed to the Purchasing Department.

Note: For respondent's convenience, this certification form is enclosed and is made a part of the bid package.

REVIEW OF PROCUREMENT DOCUMENTS - Per Florida Statute 119.071 (2) 2 sealed bids, proposals, or replies received by the County pursuant to a competitive solicitation are exempt from public disclosure until such time as the County provides notice of an intended decision or until 30 days after opening the bids, proposals, or final replies, whichever is earlier.

COMPLIANCE WITH FLORIDA STATUTE 119.0701 - The Respondent shall comply with all the provisions of section 119.0701, Florida Statutes relating to the public records which requires, among other things, that the Respondent: (a) Keep and maintain public records; (b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records; (c) ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law; and (d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the respondent upon termination of the contract.

PROTECTION OF RESIDENT WORKERS – The Okaloosa County Board of County Commissioners actively supports the Immigration and Nationality Act (INA) which includes provisions addressing employment eligibility, employment verifications, and nondiscrimination. Under the INA, employers may hire only persons who may legally work in the United States (i.e., citizens and nationals of the U.S.) and aliens authorized to work in the U.S. The employer must verify the identity and employment eligibility of anyone to be hired, which includes completing the Employment Eligibility Verifications. The respondent shall establish appropriate procedures and controls so no services or products under the Contract Documents will be performed or manufactured by any worker who is not legally eligible to perform such services or employment. Okaloosa County reserves the right to request documentation showing compliance with the requirements.

Respondents doing construction business with Okaloosa County are required to use the Federal Government Department of Homeland Security's website and use the E-Verify Employment Eligibility Verifications System to confirm eligibility of all employees to work in the United States.

SUSPENSION OR TERMINATION FOR CONVENIENCE - The County may, at any time, without cause, order Respondent in writing to suspend, delay or interrupt the work in whole or in part for such period of time as the County may determine, or to terminate all or a portion of the Contract for the County's convenience. Upon such termination, the Contract Price earned to the date of termination shall be paid to Respondent, but Respondent waives any claim for damages, including loss of profits arising out of or related to the early termination. Those Contract provisions which by their nature survive final acceptance shall remain in full force and effect. If the County orders a suspension, the Contract price and Contract time may be adjusted for increases in the cost and time caused by suspension, delay or interruption. No adjustment shall be made to

the extent that performance is, was or would have been so suspended, delayed or interrupted by reason for which Respondent is responsible; or that an equitable adjustment is made or denied under another provision of this Contract.

FAILURE OF PERFORMANCE/DELIVERY - In case of default by the respondent, the County after due notice (oral or written) may procure the necessary supplies or services from other sources and hold the respondent responsible for difference in cost incurred. Continuous instances of default shall result in cancellation of the award and removal of the respondent from the bid list for duration of one (1) year, at the option of the County.

AUDIT - If requested, respondent shall permit the County or an authorized, independent audit agency to inspect all data and records of respondent relating to its performance and its subcontracts under this bid from the date of the award through three (3) years after the expiration of contract.

EQUAL EMPLOYMENT OPPORTUNITY; NON DISCRIMINATION – Respondent will not discriminate against any employee or an applicant for employment because of race, color, religion, gender, sexual orientation, national origin, age, familial status or handicap.

NON-COLLUSION – Respondent certifies that it has entered into no agreement to commit a fraudulent, deceitful, unlawful or wrongful act, or any act which may result in an unfair advantage over other respondents. See Florida Statute 838.22.

UNAUTHORIZED ALIENS/PATRIOT'S ACT – The knowing employment by respondent or its subcontractors of any alien not authorized to work by the immigration laws is prohibited and shall be a default of the contract. In the event that the respondent is notified or becomes aware of such default, the respondent shall take steps as are necessary to terminate said employment with 24 hours of notification or actual knowledge that an alien is being employed. Respondent's failure to take such steps as are necessary to terminate the employment of any said alien within 24 hours of notification or actual knowledge that an alien is being employed shall be grounds for immediate termination of the contract. Respondent shall take all commercially reasonable precautions to ensure that it and its subcontractors do not employ persons who are not authorized to work by the immigration laws.

Title VI Solicitation Notice:

The **Okaloosa County Board of County Commissioners**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

The following documents shall be submitted with the bid packet:

- A. Drug-Free Workplace Certification Form
- B. Conflict of Interest
- C. Federal E-Verify
- D. Code of Silence Form
- E. Recycled Content Form
- F. Indemnification and Hold Harmless
- G. Prohibition to Lobbying
- H. Company Data
- I. System of Awards Management
- J. Addendum Acknowledgement
- K. Bid Sheet
- L. Supplemental Bid Sheet
- M. Anti-Collusion Statement
- N. Exhibit "C" General Funding Special Conditions

DRUG-FREE WORKPLACE CERTIFICATION

THE BELOW SIGNED RESPONDENT CERTIFIES that it has implemented a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under quote a copy of the statement specified in subsection 1.
4. In the statement specified in subsection 1, notify the employees that, as a condition of working on the commodities or contractual services that are under quote, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893, Florida Statutes, or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in, drug abuse assistance or rehabilitation program if such is available in employee's community, by any employee who is convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

DATE: _____

SIGNATURE: _____

COMPANY: _____

NAME: _____
(Typed or Printed)

ADDRESS: _____

TITLE: _____

E-MAIL: _____

PHONE NO.: _____

CONFLICT OF INTEREST DISCLOSURE FORM

For purposes of determining any possible conflict of interest, all respondents, must disclose if any Okaloosa Board of County Commissioner, employee(s), elected officials(s), or if any of its agencies is also an owner, corporate officer, agency, employee, etc., of their business.

Indicate either “yes” (a county employee, elected official, or agency is also associated with your business), or “no”. If yes, give person(s) name(s) and position(s) with your business.

YES _____

NO _____

NAME(S)

POSITION(S)

FIRM NAME: _____

BY (PRINTED): _____

BY (SIGNATURE): _____

TITLE: _____

ADDRESS: _____

PHONE NO. _____

E-MAIL _____

DATE _____

FEDERAL E-VERIFY COMPLIANCE CERTIFICATION

In accordance with Okaloosa County Policy and Executive Order Number 11-116 from the office of the Governor of the State of Florida, Respondent hereby certifies that the U.S. Department of Homeland Security's E-Verify system will be used to verify the employment eligibility of all new employees hired by the respondent during the contract term, and shall expressly require any subcontractors performing work or providing services pursuant to the contact to likewise utilize the U.S. Department of Homeland Securities E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term; and shall provide documentation such verification to the COUNTY upon request.

As the person authorized to sign this statement, I certify that this company complies/will comply fully with the above requirements.

DATE: _____

SIGNATURE: _____

COMPANY: _____

NAME: _____

ADDRESS: _____

TITLE: _____

E-MAIL: _____

PHONE NO.: _____

CONE OF SILENCE CLAUSE

The Board of County Commissioners have established a solicitation silence policy (**Cone of Silence**) that prohibits oral and written communication regarding all formal solicitations for goods and services (ITB, RFP, ITQ, ITN, and RFQ) or other competitive solicitation between the bidder (or its agents or representatives) or other entity with the potential for a financial interest in the award (or their respective agents or representatives) regarding such competitive solicitation, and any County Commissioner or County employee, selection committee member or other persons authorized to act on behalf of the Board including the County's Architect, Engineer or their subconsultants, or anyone designated to provide a recommendation to award a particular contract, other than the Purchasing Department Staff..

The period commences from the time of advertisement until contract award.

When the solicitation silence period is in effect, no oral or written communication is allowed regarding the solicitation between prospective respondents and members of the Board of County Commissioners, the County Administrator, county employees or members of the Board Approved Review Committee. All questions or requests for information regarding the solicitation **MUST** be directed to the designated Purchasing Representative listed in the solicitation.

Any information thought to affect the committee or staff recommendation submitted after bids are due, should be directed to the Purchasing Director or an appointed representative. It shall be the Purchasing Director decision whether to consider this information in the decision process.

Any violation of this policy shall be grounds to disqualify the respondent from consideration during the selection process.

All respondents must agree to comply with this policy by signing the following statement and including it with their submittal.

I _____ representing _____
Signature Company Name

On this _____ day of _____ 2018 hereby agree to abide by the County's "**Cone of Silence Clause**" and understand violation of this policy shall result in disqualification of my proposal/submittal.

RECYCLED CONTENT FORM

RECYCLED CONTENT INFORMATION

Is the material in the above: Virgin _____ or Recycled _____ (Check the applicable blank). If recycled, what percentage _____%.

Product Description: _____

Is your product packaged and/or shipped in material containing recycled content?

Yes _____ No _____

Specify: _____

Is your product recyclable after it has reached its intended end use?

Yes _____ No _____

Specify: _____

The above is not applicable if there is only a personal service involved with no product involvement.

Name of Respondent: _____

E-Mail: _____

INDEMNIFICATION AND HOLD HARMLESS

Respondent shall indemnify and hold harmless the County, its officers and employees from liabilities, damages, losses, and costs including but not limited to attorney fees, to the extent caused by the negligence, recklessness, or intentional wrongful conduct of the Respondent and other persons employed or utilized by the Respondent in the performance of this Agreement.

Respondent's Company Name

Authorized Signature – Manual

Physical Address

Authorized Signature – Typed

Mailing Address

Title

Phone Number

FAX Number

Cellular Number

After-Hours Number(s)

Date

Email Address

LOBBYING - 31 U.S.C. 1352, 49 CFR Part 19, 49 CFR Part 20

APPENDIX A, 49 CFR PART 20--CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)]

The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1) -(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

_____ Signature of Contractor's Authorized Official

_____ Name and Title of Contractor's Authorized Official

_____ Date

COMPANY DATA

Respondent's Company Name:

Physical Address & Phone #:

Contact Person (Typed-Printed):

Phone #:

Cell #:

Federal ID or SS #:

DUNNS #:

Respondent's License #:

Fax #:

Emergency #'s After Hours,
Weekends & Holidays:

Email Address:

SYSTEM FOR AWARD MANAGEMENT (OCT 2016)

(a) Definitions. As used in this provision.

“Electronic Funds Transfer (EFT) indicator” means a four-character suffix to the unique entity identifier. The suffix is assigned at the discretion of the commercial, nonprofit, or Government entity to establish additional System for Award Management records for identifying alternative EFT accounts (see [subpart 32.11](#)) for the same entity.

“Registered in the System for Award Management (SAM) database” means that.

(1) The Offeror has entered all mandatory information, including the unique entity identifier and the EFT indicator, if applicable, the Commercial and Government Entity (CAGE) code, as well as data required by the Federal Funding Accountability and Transparency Act of 2006 (see [subpart 4.14](#)) into the SAM database;

(2) The offeror has completed the Core, Assertions, and Representations and Certifications, and Points of Contact sections of the registration in the SAM database;

(3) The Government has validated all mandatory data fields, to include validation of the Taxpayer Identification Number (TIN) with the Internal Revenue Service (IRS). The offeror will be required to provide consent for TIN validation to the Government as a part of the SAM registration process; and

(4) The Government has marked the record “Active”.

“Unique entity identifier” means a number or other identifier used to identify a specific commercial, nonprofit, or Government entity. See www.sam.gov for the designated entity for establishing unique entity identifiers.

(b)(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the SAM database prior to award, during performance, and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement resulting from this solicitation.

(2) The Offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation “Unique Entity Identifier” followed by the unique entity identifier that identifies the Offeror’s name and address exactly as stated in the offer. The Offeror also shall enter its EFT indicator, if applicable. The unique entity identifier will be used by the Contracting Officer to verify that the Offeror is registered in the SAM database.

(c) If the Offeror does not have a unique entity identifier, it should contact the entity designated at www.sam.gov for establishment of the unique entity identifier directly to obtain one. The Offeror should be prepared to provide the following information:

(1) Company legal business name.

(2) Tradestyle, doing business, or other name by which your entity is commonly recognized.

(3) Company Physical Street Address, City, State, and Zip Code.

(4) Company Mailing Address, City, State and Zip Code (if separate from physical).

(5) Company telephone number.

(6) Date the company was started.

(7) Number of employees at your location.

(8) Chief executive officer/key manager.

(9) Line of business (industry).

(10) Company Headquarters name and address (reporting relationship within your entity).

- (d) If the Offeror does not become registered in the SAM database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror.
- (e) Processing time, which normally takes 48 hours, should be taken into consideration when registering. Offerors who are not registered should consider applying for registration immediately upon receipt of this solicitation.
- (f) Offerors may obtain information on registration at <https://www.acquisition.gov> .

Offerors SAM information:

Entity Name: _____

Entity Address: _____

Duns Number: _____

CAGE Code: _____

ADDENDUM ACKNOWLEDGEMENT

ITB TDD 02-19

Acknowledgment is hereby made of the following addenda (identified by number) received since issuance of solicitation:

<u>ADDENDUM NO.</u>	<u>DATE</u>

NOTE: Prior to submitting the response to this solicitation, it is the responsibility of the respondent to confirm if any addenda have been issued. If such addenda have been issued, acknowledge receipt by noting number(s) and date(s) above.

BID SHEET

Bid #: ITB TDD 02-19

BID ITEM: Turtle Friendly Lighting Retrofits on Conservation Lands

Island Pier (Building and Pier Mounted Lighting-Reuse Existing Circuits)

Labor and Materials: \$ _____

Island Pier Parking Lot (New Site Lighting Circuits)

Labor and Materials: \$ _____

James Lee Park (Building and Pavilion Mounted Lighting-Reuse Existing Circuits)

Labor and Materials: \$ _____

James Lee Park Parking Lot (New Site Lighting Circuits)

Labor and Materials: \$ _____

Beasley Park (Building and Pavilion Mounted Lighting-Reuse Existing Circuits-New Timer Circuits)

Labor and Materials: \$ _____

TOTAL BASE BID AMOUNT: \$ _____

****The County reserves the right to award to more than one vendor*****

BID SHEET
Supplemental Required Items

Bid #: ITB TDD 02-19

BID ITEM: Turtle Friendly Lighting Retrofits on Conservation Lands

Island Pier (Building and Pier Mounted Lighting-Reuse Existing Circuits)

Luminaire BmA	Unit Price \$: _____
Luminaire BmD	Unit Price \$: _____
Luminaire BmE	Unit Price \$: _____
Luminaire BmF	Unit Price \$: _____
Luminaire BmG	Unit Price \$: _____
Luminaire BmI	Unit Price \$: _____
Panelboard Mounted Surge Protection	Unit Price \$: _____
Outlet Boxes & Misc Hardware	Unit Price \$: _____

Island Pier Parking Lot (New Site Lighting Circuits)

Luminaire S4L And SWT SPD	Unit Price \$: _____
Luminaire D4L And SWT SPD	Unit Price \$: _____
Poles	Unit Price \$: _____
Site Electrical Demolition and Disposal	Unit Price \$: _____
Foundations	Unit Price \$: _____
1" PVC Conduit; Trenching; Backfill; Paving	Unit Price \$: _____
#8 AWG Aluminum Conductor	Unit Price \$: _____

James Lee Park (Building and Pavilion Mounted Lighting-Reuse Existing Circuits)

Luminaire BmA	Unit Price \$:_____
Luminaire BmB	Unit Price \$:_____
Luminaire BmF	Unit Price \$:_____
Luminaire BmG	Unit Price \$:_____
Luminaire BmH	Unit Price \$:_____
Luminaire BmI	Unit Price \$:_____
Relamp and Repair Fixtures	Unit Price \$:_____
Panelboard Mounted Surge Protection	Unit Price \$:_____
Outlet Boxes & Misc Hardware	Unit Price \$:_____
1" EMT Conduit	Unit Price \$:_____
#10 AWG Copper Conductor	Unit Price \$:_____

James Lee Park Parking Lot (New Site Lighting Circuits)

Luminaire S4L and SWT SPD	Unit Price \$:_____
Poles	Unit Price \$:_____
Foundations	Unit Price \$:_____
Lighted Bollards	Unit Price \$:_____
1" PVC Conduit; Trenching; Backfill	Unit Price \$:_____
#6 AWG Aluminum Conductor	Unit Price \$:_____

Beasley Park (Building and Pavilion Mounted Lighting-Reuse Existing Circuits-New Timer Circuits

Luminaire BmA Unit Price \$: _____

Luminaire BmB Unit Price \$: _____

Luminaire BmF Unit Price \$: _____

Panelboard Mounted Surge Protection Unit Price \$: _____

Outlet Boxes & Misc Hardware Unit Price \$: _____

1" EMT Conduit Unit Price \$: _____

#10 AWG Copper Conductor Unit Price \$: _____

ANTI-COLLUSION STATEMENT: The below signed bidder has not divulged to, discussed or compared his bid with other bidders and has not **colluded with any other bidder or parties to bid whatever.** **Note: No premiums, rebates, or gratuities permitted either with, prior to, or after any** delivery of materials. Any such violation will result in the cancellation and/or return of material (as applicable) and the removal from bid list(s).

Bidder's Company Name

Authorized Signature – Manual

Address

Authorized Signature – Typed

Address

Title

Phone #

Fax #

Federal ID # or SS #

Date Submitted: _____

Exhibit "B"

Title VI Clauses for Compliance with Nondiscrimination Requirements

Compliance with Nondiscrimination Requirements

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

Compliance with Regulations: The contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts And Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

Non-discrimination: The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.

Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Nondiscrimination Acts And Authorities on the grounds of race, color, or national origin.

Information and Reports: The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts And Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:

- a. Withholding payments to the contractor under the contract until the contractor complies; and/or
- b. Cancelling, terminating, or suspending a contract, in whole or in part.

Incorporation of Provisions: The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will

take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

Title VI List of Pertinent Nondiscrimination Acts and Authorities

Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;

Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);

Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE)

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers.

The [*contractor / consultant*] has full responsibility to monitor compliance to the referenced statute or regulation. The [*contractor / consultant*] must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division

OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The Contractor retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

E-VERIFY

Enrollment and verification requirements.

(1) If the Contractor is not enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall-

- a. Enroll. Enroll as a Federal Contractor in the E-Verify Program within thirty (30) calendar days of contract award;
- b. Verify all new employees. Within ninety (90) calendar days of enrollment in the E-Verify program, begin to use E-Verify to initiate verification of employment eligibility of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within three (3) business days after the date of hire (but see paragraph (b)(3) of this section); and,
- c. Verify employees assigned to the contract. For each employee assigned to the contract, initiate verification within ninety (90) calendar days after date of enrollment

or within thirty (30) calendar days of the employee's assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section.)

- (2) If the Contractor is enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall use E-Verify to initiate verification of employment eligibility of
 - a. All new employees.
 - i. Enrolled ninety (90) calendar days or more. The Contractor shall initiate verification of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within three (3) business days after the date of hire (but see paragraph (b)(3) of this section); or
 - ii. Employees assigned to the contract. For each employee assigned to the contract, the Contractor shall initiate verification within ninety (90) calendar days after date of contract award or within thirty (30) days after assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section.)
 - b. Enrolled less than ninety (90) calendar days. Within ninety (90) calendar days after enrollment as a Federal Contractor in E-Verify, the Contractor shall initiate verification of all new hires of the contractor, who are working in the United States, whether or not assigned to the contract, within three (3) business days after the date of hire (but see paragraph (b)(3) of this section); or
 - ii. Employees assigned to the contract. For each employee assigned to the contract, the Contractor shall initiate verification within ninety (90) calendar days after date of contract award or within thirty (30) days after assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section.)
- (3) If the Contractor is an institution of higher education (as defined at 20 U.S.C. 1001(a)); a State or local government or the government of a Federally recognized Indian tribe, or a surety performing under a takeover agreement entered into with a Federal agency pursuant to a performance bond, the Contractor may choose to verify only employees assigned to the contract, whether existing employees or new hires. The Contractor shall follow the applicable verification requirements of (b)(1) or (b)(2), respectively, except that any requirement for verification of new employees applies only to new employees assigned to the contract.
- (4) Option to verify employment eligibility of all employees. The Contractor may elect to verify all existing employees hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), rather than just those employees assigned to the contract. The Contractor shall initiate verification for each existing employee working in the United States who was hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), within one hundred eighty (180) calendar days of-
 - i. Enrollment in the E-Verify program; or
 - ii. Notification to E-Verify Operations of the Contractor's decision to exercise this option, using the contract information provided in the E-Verify program Memorandum of Understanding (MOU)
- (5) The Contractor shall comply, for the period of performance of this contract, with the requirements of the E-Verify program MOU.

- i. The Department of Homeland Security (DHS) or the Social Security Administration (SSA) may terminate the Contractor's MOU and deny access to the E-Verify system in accordance with the terms of the MOU. In such case, the Contractor, will be referred to a suspension or debarment official.
- ii. During the period between termination of the MOU and a decision by the suspension or debarment official whether to suspend or debar, the contractor is excused from its obligations under paragraph (b) of this clause. If the suspension or debarment official determines not to suspend or debar the Contractor, then the Contractor must reenroll in E-Verify.
- iii. Web site. Information on registration for and use of the E-Verify program can be obtained via the Internet at the Department of Homeland Security Web site: <http://www.dhs.gov/E-Verify>.

Individuals previously verified. The Contractor is not required by this clause to perform additional employment verification using E-Verify for any employee-

- (a) Whose employment eligibility was previously verified by the Contractor through the E-Verify program;
- (b) Who has been granted and holds an active U.S. Government security clearance for access to confidential, secret, or top secret information in accordance with the National Industrial Security Program Operating Manual; or
- (c) Who has undergone a completed background investigation and been issued credentials pursuant to Homeland Security Presidential Directive (HSPD)-12. Policy for a Common Identification Standard for Federal Employees and Contractors.

Subcontracts. The Contractor shall include the requirements of this clause, including this paragraph € (appropriately modified for identification of the parties in each subcontract that-

- (1) Is for-(i) Commercial and noncommercial services (except for commercial services that are part of the purchase of a COTS item (or an item that would be a COTS item, but for minor modifications), performed by the COTS provider, and are normally provided for that COTS item); or
(ii) Construction;
- (2) Has a value of more than \$3,500; and
- (3) Includes work performed in the United States.

EXHIBIT C

GENERAL GRANT FUNDING SPECIAL PROPOSAL CONDITIONS

Either this solicitation is fully or partially Grant funded. Respondents shall comply with the clauses as enumerated below.

1. **Drug Free Workplace Requirements:** Drug-free workplace requirements in accordance with Drug Free Workplace Act of 1988 (Pub l 100-690, Title V, Subtitle D) All contractors entering into Federal funded contracts over \$100,000 must comply with Federal Drug Free workplace requirements as Drug Free Workplace Act of 1988.
2. **Contractor Compliance:** The contractor shall comply with all uniform administrative requirements, cost principles, and audit requirements for federal awards.
3. **Conflict of Interest:** The contractor must disclose in writing any potential conflict of interest to the County or pass-through entity in accordance with applicable Federal policy.
4. **Mandatory Disclosures:** The contractor must disclose in writing all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award.
5. **Utilization of Minority and Women Firms (M/WBE):** The contractor must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible, in accordance with 2CFR 200.321. If subcontracts are to be let, prime contractor will require compliance by all sub-contractors. Prior to contract award, the contractor shall document efforts to utilize M/WBE firms including what firms were solicited as suppliers and/or subcontractors as applicable and submit this information with their bid submittal. Information regarding certified M/WBE firms can be obtained from:

Florida Department of Management Services (Office of Supplier Diversity)
Florida Department of Transportation
Minority Business Development Center in most large cities and
Local Government M/DBE programs in many large counties and cities
6. **Equal Employment Opportunity:** (As per Executive Order 11246) The contractor may not discriminate against any employee or applicant for employment because of age, race, color, creed, sex, disability or national origin. The contractor agrees to take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their age, race, color, creed, sex, disability or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship.
7. **Davis-Bacon Act:** If applicable to this contract, the contractor agrees to comply with all provisions of the Davis Bacon Act as amended (40 U.S.C. 3141-3148). Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. If the grant award contains Davis Bacon provisions, the County will place a copy of the current prevailing wage determination issued by the Department of Labor in the solicitation document. The decision to award a contract shall be conditioned upon the acceptance of the wage determination.

8. **Copeland Anti Kick Back Act:** If applicable to this contract, contractors shall comply with all the requirements of 18 U.S.C. § 874, 40 U.S.C. § 3145, 29 CFR Part 3 which are incorporated by reference to this contract. Contractors are prohibited from inducing by any means any person employed in the construction, completion or repair of public work to give up any part of the compensation to which he or she is otherwise entitled.
9. **Contract Work Hours and Safety Standards Act** (40 U.S.C. 3701–3708): Where applicable, all contracts awarded in excess of \$100,000 that involve the employment of mechanics or laborers must be in compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor is required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
10. **Clean Air Act (42 U.S.C. 7401–7671q.)** and the Federal Water Pollution Control Act (33 U.S.C. 1251–1387): as amended—The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).
11. **Debarment and Suspension** (Executive Orders 12549 and 12689): A contract award (see 2 CFR 180.220) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension. SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. The contractor shall certify compliance. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions and subcontracts.
12. **Byrd Anti-Lobbying Amendment** (31 U.S.C. 1352): Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award. The contractor shall certify compliance.
13. **Rights to Inventions Made Under a Contract or Agreement:** If the Federal award meets the definition of “funding agreement” under 37 CFR § 401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part

401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

14. **Procurement of Recovered Materials:** Contractors must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

15. **Access to Records and Reports:**

Contractor will make available to the County's granting agency, the granting agency's Office of Inspector General, the Government Accountability Office, the Comptroller General of the United States, Okaloosa County, Okaloosa County Clerk of Court's Inspector General, or any of their duly authorized representatives any books, documents, papers or other records, including electronic records, of the contractor that are pertinent to the County's grant award, in order to make audits, investigations, examinations, excerpts, transcripts, and copies of such documents. The right also includes timely and reasonable access to the contractor's personnel during normal business hours for the purpose of interview and discussion related to such documents. This right of access shall continue as long as records are retained.

16. **Record Retention:**

Contractor will retain of all required records pertinent to this contract for a period of three years, beginning on a date as described in 2 C.F.R. §200.333 and retained in compliance with 2 C.F.R. §200.333.

17. **Federal Changes:** Contractor shall comply with all applicable Federal agency regulations, policies, procedures and directives, including without limitation those listed directly or by reference, as they may be amended or promulgated from time to time during the term of the contract.

18. **Termination for Default (Breach or Cause):**

Contracts in excess of \$10,000 – If Contractor does not deliver supplies in accordance with the contract delivery schedule, or, if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or if the Contractor fails to comply with any other provisions of the contract, the County may terminate the contract for default. Termination shall be effected by serving a notice of termination on the contractor setting forth the manner in which the Contractor is in default. The contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.

19. **Safeguarding Personal Identifiable Information**

Contractor will take reasonable measures to safeguard protected personally identifiable information and other information designated as sensitive by the awarding agency or is considered sensitive consistent with applicable Federal, state and/or local laws regarding privacy and obligations of confidentiality.

20. **Prohibition on utilization of cost plus a percentage of cost contracts:** The County will not award contracts containing Federal funding on a cost plus percentage of cost basis.
21. **Prohibition on utilization of time and material type contracts:** The County will not award contracts based on a time and material basis if the contract contains Federal funding.
22. **Disputes:** Any dispute arising under this Agreement which is not settled by Agreement of the parties may be settled by mediation, arbitration, or other appropriate legal proceedings. Pending any decision, appeal or judgment in such proceedings or the settlement of any dispute arising under this Agreement, shall proceed diligently with the performance of this Agreement in accordance with the decision of the County. This Agreement shall be construed under the laws of the State of Florida, and venue for any actions arising out of this Agreement shall be in the Circuit Court of Okaloosa County.
23. **Energy Policy and Conservation Act (43 U.S.C.§6201)**
All contracts except micro-purchases (\$3000 or less, except for construction contracts over \$2000). Contracts shall comply with mandatory standards and policies relating to energy efficiency, stating in the state energy conservation plan issued in compliance with the Energy Policy and Conservation act. (Pub. L. 94-163, 89 Stat. 871) [53 FR 8078, 8087, Mar. 11, 1988, as amended at 60 FR 19639, 19645, Apr. 19, 1995].

As the person authorized to sign this statement, I certify that this company complies/will comply fully with the above requirements.

DATE: _____

SIGNATURE: _____

COMPANY: _____

NAME: _____

ADDRESS: _____

TITLE: _____

E-MAIL: _____

PHONE NO.: _____

DRAFT CONTRACT

Please note: this contract is a draft for bidder to view and understand the County’s standard terms and conditions, it is subject to revisions. By submitting a bid/proposal bidder/respondent understands and acknowledges that the draft contract is not an offer. Bidders/respondents are not to sign this draft contract.

EXHIBIT “A”

To be inserted later once submittals have been made- Request for Bids and Respondents Acknowledgement solicited for **Turtle Friendly Lighting Retrofits on Conservation Lands** date of opening **November 28, 2018** and any addendums thereto.

**CONTRACT
For ITB TDD 02-19
Turtle Friendly Lighting Retrofits on Conservation Lands**

This Contract executed and entered into this ____ day of _____, 2018, between Okaloosa County, Florida, (hereinafter the “County”), whose principal address is 1250 N. Eglin Parkway, Shalimar, Florida 32579, and _____ (hereinafter the “Contractor”), _____, whose principal address is _____, states as follows:

WITNESSETH:

WHEREAS, the County through an Invitation to Bids has solicited for **Turtle Friendly Lighting Retrofits on Conservation Lands**; and

WHEREAS, after due review of all bids, _____ has been selected for the **Turtle Friendly Lighting Retrofits on Conservation Lands**; and

WHEREAS, the County, as a recipient of federal assistance, is required to incorporate specific provisions in all contracts, regardless of funding source, with additional provisions being required for federally funded projects. These provisions are being incorporated per this amendment as stated in Exhibit “B” attached hereto; and

WHEREAS, the County desires the services of the Contractor and the Contractor is willing and able to perform all services in accordance with this Contract.

NOW, THEREFORE, the parties hereto agree as follows:

I. Incorporation of Documents

The following documents are incorporated herein by reference into this Contract and are attached as:

1. Exhibit “A”, Invitation to Bid & Respondent’s Acknowledgment/Contractor’s Submittal, **ITB TDD 02-19, Turtle Friendly Lighting Retrofits on Conservation Lands** date of opening November 28, 2018 and any addendums thereto.
2. Exhibit “B”, Federal Regulations, attached hereto and made a part of the contract.

All terms within the above referenced documents are in full force and effect and shall be binding upon both parties.

II. Scope of Work

The Contractor will provide **Turtle Friendly Lighting Retrofits on Conservation Lands** as further outlined in the attached Exhibit "A". Any changes to the Contract shall be by a contract amendment, which must be agreed to in writing and fully executed by both parties.

III. Payment

The Contractor will be paid for the services provided in accordance with the terms and conditions of this contract and attached Exhibit "A" (Bid Sheet).

IV. Invoice Requirements

The Contractor shall request payment through submission of a properly completed invoice. County shall make payments within thirty (30) days of invoice date.

In the event a portion of an invoice submitted to the County for payment to the Contractor, as specified above, is disputed, payment for the disputed amount may be withheld pending resolution of the dispute, and the remainder of the invoice will be processed for payment without regard to that portion which is in dispute.

V. Duration of Contract and Termination of the Contract

The Contract will be effective beginning _____ and will run for 120 days.

The County may terminate the Contract with or without cause by providing thirty (30) days written notice to the Contractor. If terminated, Contractor shall be owed for services rendered and equipment provided up until the point of termination.

The County may terminate this Agreement in whole or part for cause, if the County determines that the performance of the Contractor is not satisfactory, the County shall notify the Contractor of the deficiency in writing with a requirement that the deficiency be corrected within ten (10) days of such notice. Such notice shall provide reasonable specificity to the Contractor of the deficiency that requires correction. If the deficiency is not corrected within such time period, the County may either (1) immediately terminate the Agreement, or (2) take whatever action is deemed appropriate to correct the deficiency. In the event the County chooses to take action and not terminate the Agreement, the Contractor shall, upon demand, promptly reimburse the County for any and all costs and expenses incurred by the County in correcting the deficiency.

If the County terminates the Agreement, the County shall notify the Contractor of such termination in writing, with instruction to the effective date of termination or specify the stage of work at which the Agreement is to be terminated.

The County reserves the right to unilaterally cancel this Agreement immediately for refusal by the Contractor or any contractor, sub-contractor or materials vendor to allow public access to all documents, papers, letters or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received in conjunction with this Agreement unless the records are exempt.

Upon receipt of a final termination or suspension notice under this Article, the Contractor shall proceed promptly to carry out the actions required in such notice, which may include any or all of the following:

1. Necessary action to terminate or suspend, as the case may be, Project activities and contracts and such other action as may be required or desirable to keep to a minimum the costs upon the basis of which the financing is to be computed; and
2. Furnish a statement of the activities and other undertakings the cost of which are otherwise includable as costs under this Agreement. The termination or suspension shall be carried out in conformity with the latest schedule of costs as approved by the County. The closing out of federal financial participation in the services provided shall not constitute a waiver of any claim which the County may otherwise have arising out of this Agreement.

VI. Remedies

This Contract shall be governed by the laws of the State of Florida. Any and all legal action necessary to enforce the Contract shall be held in Okaloosa County. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. No single or partial exercise by any party of any right, power, or remedy hereunder shall preclude any other or further exercise thereof.

VII. Intent of Contract Documents

It is the intent of the Contract Documents to describe a functionally complete project to be performed in accordance with the Contract Documents. Any work, materials or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not specifically called for. When words that have a well-known technical or trade meaning are used to describe work, materials or equipment, such words shall be interpreted in accordance with that meaning. Reference to standard specifications, manuals or codes of any technical society, organization or association or to the laws or regulations of any governmental authority having jurisdiction over the Project, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, law or regulation in effect at the time the Work is performed, except as may be otherwise specifically stated herein.

VIII. Investigation

Contractor shall have the sole responsibility of satisfying itself concerning the nature and location of the Work and the general and local conditions, and particularly, but without limitation, with respect to the following: those affecting transportation, access, disposal, handling and storage of materials; availability and quality of labor; water and electric power; availability and condition of roads; work area; living facilities; climatic conditions and seasons; physical conditions at the work site and the project area as a whole; topography and ground surface conditions; nature and quantity of the surface materials to be encountered; subsurface conditions; equipment and facilities needed preliminary to and during performance of the Work; and all other costs associated with such performance. The failure of Contractor to acquaint itself with any applicable conditions shall not relieve Contractor from any of its responsibilities to perform under the Contract Documents, nor shall it be considered the basis for any claim for additional time or compensation.

IX. Notice

All notices required by this Contract shall be in writing to the representatives listed below:

The authorized representatives of the County shall be:

Jennifer Adams, Department Director
1540 Miracle Strip Pkwy SE
Fort Walton Beach, Florida, 32548
Phone: 850-651-7131
Email: jadams@myokaloosa.com

The authorized representative for _____ shall be:

Courtesy copy to:

Okaloosa County Purchasing Department
5479A Old Bethel Road
Crestview, FL 32536
Phone: 850-689-5960
Fax: 850-689-5998
Email: dmason@myokaloosa.com

Any party shall have the right, from time to time, to change the address to which notices shall be sent by giving the other party at least five (5) business days' prior notice of the address change.

X. Governing Law & Venue

This Contract shall be governed by and construed in accordance with the laws of the State of Florida, and the parties stipulate that venue shall be in the state courts of Okaloosa County, Florida.

XI. Public Records

Any record created by either party in accordance with this Contract shall be retained and maintained in accordance with the public records law, Florida Statutes, Chapter 119.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT OKALOOSA COUNTY RISK MANAGEMENT DEPARTMENT 5479 OLD BETHEL ROAD CRESTVIEW, FL 32536 PHONE: (850) 689-5977 riskinfo@co.okaloosa.fl.us.

Contractor must comply with the public records laws, Florida Statute chapter 119, specifically Contractor must:

1. Keep and maintain public records required by the County to perform the service.
2. Upon request from the County's custodian of public records, provide the County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in chapter 119 Florida Statutes or as otherwise provided by law.

3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the contractor does not transfer the records to the County.
4. Upon completion of the contract, transfer, at no cost, to the County all public records in possession of the contractor or keep and maintain public records required by the County to perform the service. If the contractor transfers all public records to the public agency upon completion of the contract, the contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the contractor keeps and maintains public records upon completion of the contract, the contractor shall meet all applicable requirements for retaining the public records. All records stored electronically must be provided to the public agency, upon the request from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.

XIII. Audit

The County and/or its designee shall have the right from time to time at its sole expense to audit the compliance by the Contractor with the terms, conditions, obligations, limitations, restrictions, and requirements of this Contract and such right shall extend for a period of three (3) years after termination of this Contract.

XIV. Assignment

Contractor shall not assign this Contract or any part thereof, without the prior consent in writing of the County. If Contractor does, with approval, assign this Contract or any part thereof, it shall require that its assignee be bound to it and to assume toward Contractor all of the obligations and responsibilities that Contractor has assumed toward the County.

XV. Entire Contract & Waivers

This Contract and all exhibits as incorporated herein, contain the entire contract between the parties and supersedes all prior oral or written contracts. Contractor acknowledges that it has not relied upon any statement, representation, prior or contemporaneous written or oral promises, agreements or warranties, except such as are expressed herein. The terms and conditions of this Contract can only be amended in writing upon mutual agreement of the parties and signed by both parties.

The waiver by a party of any breach or default in performance shall not be deemed to constitute a waiver of any other or succeeding breach or default. The failure of the County to enforce any of the provisions hereof shall not be construed to be a waiver of the right of the County thereafter to enforce such provisions.

XVI. Severability

If any term or condition of this Contract shall be deemed, by a court having appropriate jurisdiction, invalid or unenforceable, the remainder of the terms and conditions of this Contract shall remain in full force and effect. This Contract shall not be more strictly construed against either party hereto by reason of the fact that one party may have drafted or prepared any or all the terms and provisions hereof.

XVII. Independent Contractor

Contractor enters into this Contract as, and shall continue to be, an independent contractor. All services shall be performed only by Contractor and Contractor's employees. Under no circumstances shall

Contractor or any of Contractor's employees look to the County as his/her employer, or as partner, agent or principal. Neither Contractor, nor any of Contractor's employees, shall be entitled to any benefits accorded to the County's employees, including without limitation worker's compensation, disability insurance, vacation or sick pay. Contractor shall be responsible for providing, at Contractor's expense, and in Contractor's name, unemployment, disability, worker's compensation and other insurance as well as licenses and permits usual and necessary for conducting the services to be provided under this Contract.

XVIII. Third Party Beneficiaries

It is specifically agreed between the parties executing this Contract that it is not intended by any of the provisions of any part of the Contract to create in the public or any member thereof, a third party beneficiary under this Contract, or to authorize anyone not a party to this Contract to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Contract.

XIX. Indemnification and Hold Harmless

Contractor agrees to hold harmless, indemnify, and defend or, at the option of the County, pay the cost of defense, the County and its representative from any and all claims, losses, penalties, demands, judgments, and costs of suit, including attorneys' fees and paralegals' fees, for any expense, damage or liability incurred by any of them, whether for personal injury, property damage, direct or consequential damages, or economic loss, arising directly or indirectly on account of or in connection with the Work done by Contractor under this Contract or by any person, firm or corporation to whom any portion of the Work is subcontracted by Contractor or resulting from the use by Contractor, or by any one for whom Contractor is legally liable, of any materials, tools, machinery or other property of the County.

The Contractor's obligation under this provision shall not be limited in any way by the agreed upon contract price as shown in this contract or the Contractor's limit of, or lack of, sufficient insurance protection.

XX. Representation of Authority to Contractor/Signatory

The individual signing this Contract on behalf of _____ represents and warrants that he or she is duly authorized and has legal capacity to execute and deliver this Contract. The signatory represents and warrants to the County that the execution and delivery of this Contract and the performance of _____ obligations hereunder have been duly authorized and that the Contract is a valid and legal agreement binding on the Contractor and enforceable in accordance with its terms.

XXI. Subcontracting

Contractor shall not subcontract any services or work to be provided to County without the prior written approval of the County's Representative. The County reserves the right to accept the use of a subcontractor or to reject the selection of a particular subcontractor and to inspect all facilities of any subcontractors in order to make a determination as to the capability of the subcontractor to perform properly under this Contract. The County's acceptance of a subcontractor shall not be unreasonably withheld. The Contractor is encouraged to seek minority and women business enterprises for participation in subcontracting opportunities. Additionally, any subcontract entered into between the Contractor and subcontractor will need to be approved by the County prior to it being entered into, and said agreement shall incorporate in all required terms in accordance with local, state and Federal regulations.

XXII. Insurance

CONTRACTORS INSURANCE

1. The Contractor shall not commence any work in connection with this Agreement until he has obtained all required insurance and such insurance has been approved by the Okaloosa County Risk Manager or designee.
2. All insurance policies shall be with insurers authorized to do business in the State of Florida.
3. All insurance shall include the interest of all entities named and their respective officials, employees & volunteers of each and all other interests as may be reasonably required by Okaloosa County. The coverage afforded the Additional Insured under this policy shall be primary insurance. If the Additional Insured have other insurance that is applicable to the loss, such other insurance shall be on an excess or contingent basis. The amount of the company's liability under this policy shall not be reduced by the existence of such other insurance.
4. Where applicable, the County shall be shown as an Additional Insured with a Waiver of Subrogation on the Certificate of Insurance.
5. The County shall retain the right to reject all insurance policies that do not meet the requirement of this Agreement. Further, the County reserves the right to change these insurance requirements with 60-day notice to the Contractor.
6. The County reserves the right at any time to require the Contractor to provide copies (redacted if necessary) of any insurance policies to document the insurance coverage specified in this Agreement.
7. The designation of Contractor shall include any associated or subsidiary company which is involved and is a part of the contract and such, if any associated or subsidiary company involved in the project must be named in the Workers' Compensation coverage.
8. Any exclusions or provisions in the insurance maintained by the Contractor that excludes coverage for work contemplated in this agreement shall be deemed unacceptable and shall be considered breach of contract.

WORKERS' COMPENSATION INSURANCE

1. The Contractor shall secure and maintain during the life of this Agreement Workers' Compensation insurance for all of his employees employed for the project or any site connected with the work, including supervision, administration or management, of this project and in case any work is sublet, with the approval of the County, the Contractor shall require the Subcontractor similarly to provide Workers' Compensation insurance for all employees employed at the site of the project, and such evidence of insurance shall be furnished to the County not less than ten (10) days prior to the commencement of any and all sub-contractual Agreements which have been approved by the County.
2. Contractor must be in compliance with all applicable State and Federal workers' compensation laws, including the U.S. Longshore Harbor Workers' Act or Jones Act, if applicable.

3. No class of employee, including the Contractor himself, shall be excluded from the Workers' Compensation insurance coverage. The Workers' Compensation insurance shall also include Employer's Liability coverage.

BUSINESS AUTOMOBILE LIABILITY

Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than \$1,000,000 combined single limit each accident. If the contractor does not own vehicles, the contractor shall maintain coverage for Hired & Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Policy. Contractor must maintain this insurance coverage throughout the life of this Agreement.

COMMERCIAL GENERAL LIABILITY INSURANCE

1. The Contractor shall carry other Commercial General Liability insurance against all other Bodily Injury, Property Damage and Personal and Advertising Injury exposures.
2. All liability insurance (other than Professional Liability) shall be written on an occurrence basis and shall not be written on a claims-made basis. If the insurance is issued with an aggregate limit of liability, the aggregate limit of liability shall apply only to the locations included in this Agreement. If, as the result of any claims or other reasons, the available limits of insurance reduce to less than those stated in the Limits of Liability, the Contractor shall notify the County representative in writing. The Contractor shall purchase additional liability insurance to maintain the requirements established in this Agreement. Umbrella or Excess Liability insurance can be purchased to meet the Limits of Liability specified in this Agreement.
3. Commercial General Liability coverage shall include the following:
 - 1.) Premises & Operations Liability
 - 2.) Bodily Injury and Property Damage Liability
 - 3.) Independent Contractors Liability
 - 4.) Contractual Liability
 - 5.) Products and Completed Operations Liability
5. Contractor shall agree to keep in continuous force Commercial General Liability coverage for the length of the contract.

LIMITS OF LIABILITY

The insurance required shall be written for not less than the following, or greater if required by law and shall include Employer's liability with limits as prescribed in this contract:

- | | <u>LIMIT</u> |
|--------------------------|-------------------------|
| 1. Worker's Compensation | |
| 1.) State | Statutory |
| 2.) Employer's Liability | \$500,000 each accident |

- | | | |
|----|---------------------------------|--|
| 2. | Business Automobile | \$1,000,000 each accident
(A combined single limit) |
| 3. | Commercial General Liability | \$1,000,000 each occurrence
for Bodily Injury & Property Damage
\$1,000,000 each occurrence Products
and completed operations |
| 4. | Personal and Advertising Injury | \$1,000,000 each occurrence |

NOTICE OF CLAIMS OR LITIGATION

The Contractor agrees to report any incident or claim that results from performance of this Agreement. The County representative shall receive written notice in the form of a detailed written report describing the incident or claim within ten (10) days of the Contractor's knowledge. In the event such incident or claim involves injury and/or property damage to a third party, verbal notification shall be given the same day the Contractor becomes aware of the incident or claim followed by a written detailed report within ten (10) days of verbal notification.

CERTIFICATE OF INSURANCE

1. Certificates of insurance indicating the job site and evidencing all required coverage must be submitted not less than 10 days prior to the commencement of any of the work. The certificate holder(s) shall be as follows: Okaloosa County, 5479A Old Bethel Road, Crestview, Florida, 32536.
2. The contractor shall provide a Certificate of Insurance to the County with a thirty (30) day notice of cancellation; ten (10 days' notice if cancellation is for nonpayment of premium).
3. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of the contractor to provide the proper notice. Such notification shall be in writing by registered mail, return receipt requested, and addressed to the Okaloosa County Purchasing Department at 5479-A Old Bethel Road, Crestview, FL 32536.
4. In the event the contract term goes beyond the expiration date of the insurance policy, the contractor shall provide the County with an updated Certificate of insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The County reserves the right to suspend the contract until this requirement is met.
5. The certificate shall indicate if coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the certificate will show a retroactive date, which should be the same date of the initial contract or prior.
6. All certificates shall be subject to Okaloosa County's approval of adequacy of protection and the satisfactory character of the Insurer.
7. All deductibles or SIRs, whether approved by Okaloosa County or not, shall be the Contractor's full responsibility. In particular, the Contractor shall afford full coverage as specified herein to entities listed as Additional Insured.

8. In no way will the entities listed as Additional Insured be responsible for, pay for, be damaged by, or limited to coverage required by this schedule due to the existence of a deductible or SIR.

GENERAL TERMS

Any type of insurance or increase of limits of liability not described above which, the Contractor required for its own protection or on account of statute shall be its own responsibility and at its own expense.

Any exclusions or provisions in the insurance maintained by the contractor that excludes coverage for work contemplated in this contract shall be deemed unacceptable and shall be considered breach of contract.

The carrying of the insurance described shall in no way be interpreted as relieving the Contractor of any responsibility under this contract.

Should the Contractor engage a subcontractor or sub-subcontractor, the same conditions will apply under this Agreement to each subcontractor and sub-subcontractor.

The Contractor hereby waives all rights of subrogation against Okaloosa County and its consultants and other indemnities of the Contractor under all the foregoing policies of insurance.

UMBRELLA INSURANCE

The Contractor shall have the right to meet the liability insurance requirements with the purchase of an umbrella insurance policy. In all instances, the combination of primary and umbrella liability coverage must equal or exceed the minimum liability insurance limits stated in this Agreement.

XXIII. Taxes and Assessments

Contractor agrees to pay all sales, use, or other taxes, assessments and other similar charges when due now or in the future, required by any local, state or federal law, including but not limited to such taxes and assessments as may from time to time be imposed by the County in accordance with this Agreement. Contractor further agrees that it shall protect, reimburse and indemnify County from and assume all liability for its tax and assessment obligations under the terms of the Agreement.

The County is exempt from payment of Florida state sales and use taxes. The Contractor shall not be exempted from paying sales tax to its suppliers for materials used to fulfill contractual obligations with the County, nor is the Contractor authorized to use the County's tax exemption number in securing such materials.

The Contractor shall be responsible for payment of its own and its share of its employees' payroll, payroll taxes, and benefits with respect to this Agreement.

XXIV. Compliance with Laws

Contractor shall secure any and all permits, licenses and approvals that may be required in order to perform the Work, shall exercise full and complete authority over Contractor's personnel, shall comply with all workers' compensation, employer's liability and all other federal, state, county, and municipal laws,

ordinances, rules and regulations required of an employer performing services such as the Work, and shall make all reports and remit all withholdings or other deductions from the compensation paid to Contractor's personnel as may be required by any federal, state, county, or municipal law, ordinance, rule, or regulation.

XXV. Federal Regulations

The contractor agrees to comply with all federal, state and local laws, rules and regulations, including but not limited to, those set forth in Exhibit "B", which is expressly incorporated herein as a part of this contract.

IN WITNESS WHEREOF, the parties hereto have made and executed this Contract on the respective dates under each signature.

OKALOOSA COUNTY, FLORIDA

Printed Name/Title

Graham W. Fountain, Chairman

Signature

Date: ____/____/____

Date:

ATTEST:

J.D. Peacock II, Clerk

Exhibit "B"

Title VI Clauses for Compliance with Nondiscrimination Requirements

Compliance with Nondiscrimination Requirements

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts And Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Nondiscrimination Acts And Authorities on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts And Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
 - a. Withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

Title VI List of Pertinent Nondiscrimination Acts and Authorities

Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE)

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers.

The [*contractor / consultant*] has full responsibility to monitor compliance to the referenced statute or regulation. The [*contractor / consultant*] must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division

OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The Contractor retains full responsibility to monitor its compliance and their subcontractor’s compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

E-VERIFY

Enrollment and verification requirements.

- (6) If the Contractor is not enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall-
 - a. Enroll. Enroll as a Federal Contractor in the E-Verify Program within thirty (30) calendar days of contract award;
 - b. Verify all new employees. Within ninety (90) calendar days of enrollment in the E-Verify program, begin to use E-Verify to initiate verification of employment eligibility of all new hires of the Contractor, who are working in the United States,

whether or not assigned to the contract, within three (3) business days after the date of hire (but see paragraph (b)(3) of this section); and,

- c. Verify employees assigned to the contract. For each employee assigned to the contract, initiate verification within ninety (90) calendar days after date of enrollment or within thirty (30) calendar days of the employee's assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section.)

(7) If the Contractor is enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall use E-Verify to initiate verification of employment eligibility of

- a. All new employees.

- i. Enrolled ninety (90) calendar days or more. The Contractor shall initiate verification of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within three (3) business days after the date of hire (but see paragraph (b)(3) of this section); or

- b. Enrolled less than ninety (90) calendar days. Within ninety (90) calendar days after enrollment as a Federal Contractor in E-Verify, the Contractor shall initiate verification of all new hires of the contractor, who are working in the United States, whether or not assigned to the contract, within three (3) business days after the date of hire (but see paragraph (b)(3) of this section); or

- ii. Employees assigned to the contract. For each employee assigned to the contract, the Contractor shall initiate verification within ninety (90) calendar days after date of contract award or within thirty (30) days after assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section.)

(8) If the Contractor is an institution of higher education (as defined at 20 U.S.C. 1001(a)); a State of local government or the government of a Federally recognized Indian tribe, or a surety performing under a takeover agreement entered into with a Federal agency pursuant to a performance bond, the Contractor may choose to verify only employees assigned to the contract, whether existing employees or new hires. The Contractor shall follow the applicable verification requirements of (b)(1) or (b)(2), respectively, except that any requirement for verification of new employees applies only to new employees assigned to the contract.

(9) Option to verify employment eligibility of all employees. The Contractor may elect to verify all existing employees hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), rather than just those employees assigned to the contract. The Contractor shall initiate verification for each existing employee working in the United States who was hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), within one hundred eighty (180) calendar days of-

- i. Enrollment in the E-Verify program; or

- ii. Notification to E-Verify Operations of the Contractor's decision to exercise this option, using the contract information provided in the E-Verify program Memorandum of Understanding (MOU)
- (10) The Contractor shall comply, for the period of performance of this contract, with the requirements of the E-Verify program MOU.

i. The Department of Homeland Security (DHS) or the Social Security Administration (SSA) may terminate the Contractor's MOU and deny access to the E-Verify system in accordance with the terms of the MOU. In such case, the Contractor, will be referred to a suspension or debarment official.

ii. During the period between termination of the MOU and a decision by the suspension or debarment official whether to suspend or debar, the contractor is excused from its obligations under paragraph (b) of this clause. If the suspension or debarment official determines not to suspend or debar the Contractor, then the Contractor must reenroll in E-Verify.

iii. Web site. Information on registration for and use of the E-Verify program can be obtained via the Internet at the Department of Homeland Security Web site: <http://www.dhs.gov/E-Verify>.

Individuals previously verified. The Contractor is not required by this clause to perform additional employment verification using E-Verify for any employee-

- (d) Whose employment eligibility was previously verified by the Contractor through the E-Verify program;
- (e) Who has been granted and holds an active U.S. Government security clearance for access to confidential, secret, or top secret information in accordance with the National Industrial Security Program Operating Manual; or
- (f) Who has undergone a completed background investigation and been issued credentials pursuant to Homeland Security Presidential Directive (HSPD)-12. Policy for a Common Identification Standard for Federal Employees and Contractors.

Subcontracts. The Contractor shall include the requirements of this clause, including this paragraph € (appropriately modified for identification of the parties in each subcontract that-

- (4) Is for-(i) Commercial and noncommercial services (except for commercial services that are part of the purchase of a COTS item (or an item that would be a COTS item, but for minor modifications), performed by the COTS provider, and are normally provided for that COTS item); or
- (ii) Construction;
- (5) Has a value of more than \$3,500; and
- (6) Includes work performed in the United States.

TURTLE LIGHTING RETROFIT OKALOOSA COUNTY, FLORIDA PROJECT NO. 753600 DECEMBER 19, 2018



THE BOARD OF COUNTY COMMISSIONERS OF OKALOOSA COUNTY, FLORIDA

GRAHAM FOUNTAIN.....VICE CHAIRMAN
DISTRICT 1

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DISTRICT 2

NATHAN BOYLES.....MEMBER
DISTRICT 3

TREY GOODWIN.....MEMBER
DISTRICT 4

KELLY WINDES.....MEMBER
DISTRICT 5



PREPARED BY

VOLKERT

3809 Moffett Road
Mobile, AL 36618

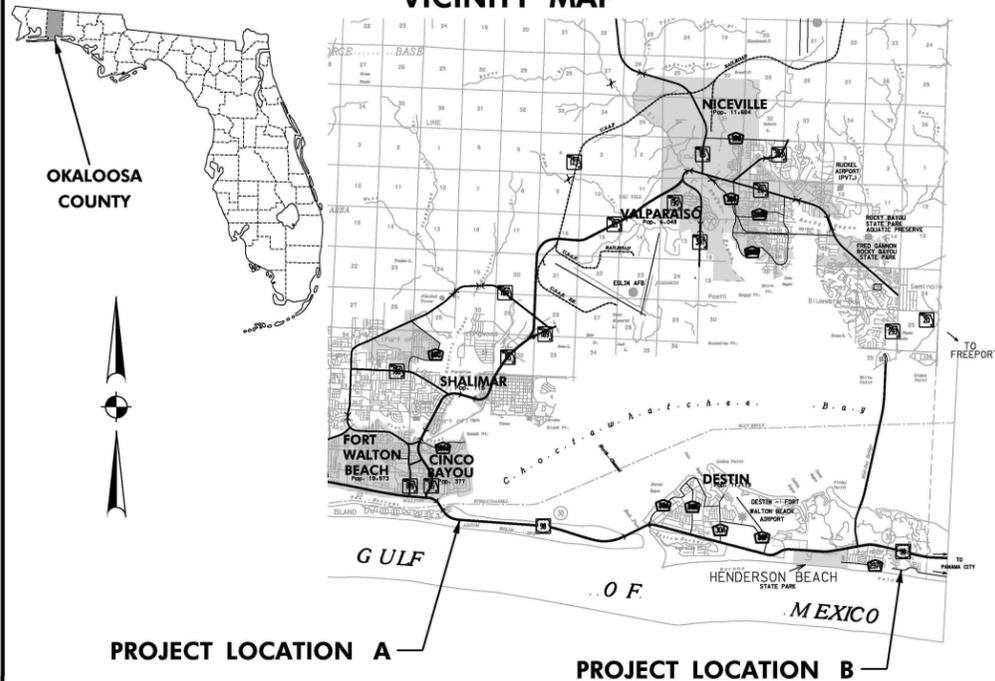
www.Volkert.com

Phone: 251.342.1070
Fax: 251.342.7962

DRAWING INDEX

DRAWING NO.	DRAWING TITLE	REV.	DATE	DESCRIPTION
E-1.0	TITLE SHEET			
E-2.0	LEGEND, NOTES, & ABBREVIATIONS			
E-2.1 - E-2.2	WAYSIDE PARK AND ISLAND PIER - LIGHTING FIXTURE SCHEDULES			
E-2.3 - E-2.4	JOHN BEASLEY PARK - LIGHTING FIXTURE SCHEDULES			
E-2.5 - E-2.6	JAMES LEE PARK - LIGHTING FIXTURE SCHEDULES			
E-2.7	SURGE SUPPRESSION SCHEDULE			
E-2.8	WAYSIDE AND ISLAND PIER - PHOTOMETRICS			
E-2.9	JAMES LEE PARK - PHOTOMETRICS			
E-2.10	PROJECT DETAILS			
E-3.0	PROJECT SITE LAYOUT SHEET			
E-4.0	OMITTED			
E-4.1 - E-4.5	ISLAND PIER - DEMOLITION PLANS			
E-4.6 - E-4.10	ISLAND PIER - LIGHTING PLANS			
E-4.11 - E-4.15	ISLAND PIER - PHOTO REFERENCE DETAILS			
E-5.0	OMITTED			
E-5.1 - E-5.5	WAYSIDE PARK - DEMOLITION PLANS			
E-5.6 - E-5.10	WAYSIDE PARK - LIGHTING PLANS			
E-5.11 - E-5.15	WAYSIDE PARK - PHOTO REFERENCE DETAILS			
E-6.0	OMITTED			
E-6.1 - E-6.2	JOHN BEASLEY PARK - DEMOLITION PLANS			
E-6.3 - E-6.4	JOHN BEASLEY PARK - LIGHTING PLANS			
E-6.5 - E-6.6	JOHN BEASLEY PARK - PHOTO REFERENCE DETAILS			
E-7.0	OMITTED			
E-7.1 - E-7.6	JAMES LEE PARK - DEMOLITION PLANS			
E-7.7 - E-7.12	JAMES LEE PARK - LIGHTING PLANS			
E-7.13 - E-7.16	JAMES LEE PARK - PHOTO REFERENCE DETAILS			

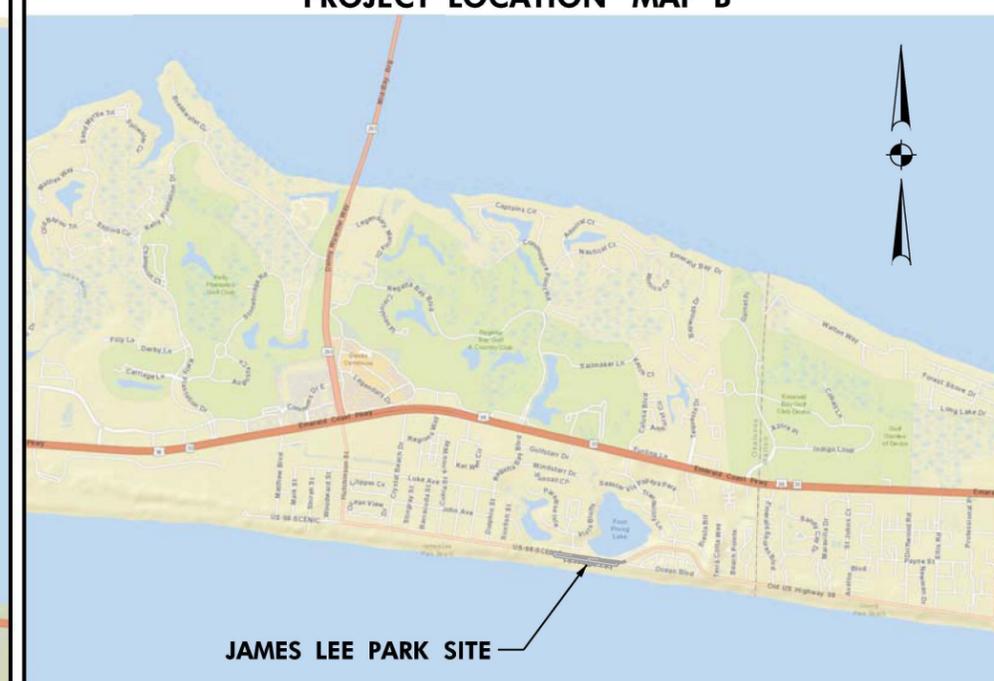
VICINITY MAP



PROJECT LOCATION MAP A



PROJECT LOCATION MAP B



Plot: S:\csl\10000000\00000001.dwg
 \$PENTABLE\$
 19-DEC-2018 2:05

User: is: lachart\lfr
 Project: 753600 Turtle Lighting Retrofit\Code\PLANS ASSEMBLY\E-1.0_TITILE.dgn

WAYSIDE PARK AND ISLAND PIER EXTERIOR LIGHTING FIXTURE TABLE FOR MARINE TURTLE PROTECTION LIGHTING PLAN

Exterior lighting fixtures and lamps must be selected to meet established criteria which minimizes impacts to marine turtles. FWC recommendation of this fixture table does not relieve the applicant from the responsibility of meeting the established criteria once construction has occurred. Upon installation, if the criteria are not met, the fixtures, bulbs and or lamps must be shielded, replaced, realigned, or otherwise modified to meet the criteria. All site lighting installed under a DEP permit must be fully compliant with local lighting regulations, where applicable, and must not cause a disorientation or take of a marine turtle as defined under the Federal Endangered Species Act.

Project Name:	Wayside Park & Island Pier Relighting
DEP File Numbers:	

Submitted by:	
Submittal Date:	
Drawing/Plan Date:	

FWC Reviewer:	To be completed by FWC
FWC Stamp Date:	To be completed by FWC

Note: It is recommended that this document be printed on legal size paper. Column/row sizes or print area can be adjusted as necessary.

Note: The last three (gray) columns will be completed by FWC staff.

Fixture Label	Fixture Quantity	Fixture/ Mounting Type	Fixture Mounting Height	Manufacturer and Catalog No.	Lamp Type, Color and Wattage	Structure Level ² Each structure level must be on a separate row.	Location of Fixture ¹	Drawing Sheet Number	Labeled Cut Sheet Provided (Y/N)	Recommended by FWC (Y/N)	Reason Not Recommended ³ and/or Comments
PmS2L	5	CONC BASE W/ SQUARE NON TAPERED ALUM POLE	12 FEET	US ARCH LGT-RZRM- PLEDII-48LED-350MA-TRUE AMBER CREE XPE2-208-RAL9003T-HSPLED-DF POLE USA SNTA-104125-1-AZ	1 FX EACH WITH 48-350mA-True Amber Cree XP-E2	GROUND LEVEL	L				
PmS2H	4	CONC BASE W/ SQUARE NON TAPERED ALUM POLE	20 FEET	US ARCH LGT-RZRM- PLEDII-48LED-350MA-TRUE AMBER CREE XPE2-208-RAL9003T-HSPLED-DF POLE USA SNTA-184188-1-AZ	1 FX EACH WITH 48-350mA-True Amber Cree XP-E2	GROUND LEVEL	L				
PmD4L	21	CONC BASE W/ SQUARE NON TAPERED ALUM POLE	12 FEET	US ARCH LGT-RZRM- PLEDIV-48LED-350MA-TRUE AMBER CREE XPE2-208-RAL9003T-HSPLED-DF POLE USA SNTA-104125-2180-AZ	2 FX AT 180DEG EACH WITH 48-350mA-True Amber Cree XP-E2	GROUND LEVEL	L				
PmS4L	7	CONC BASE W/ SQUARE NON TAPERED ALUM POLE	12 FEET	US ARCH LGT-RZRM- PLEDIV-48LED-350MA-TRUE AMBER CREE XPE2-208-RAL9003T-HSPLED-DF POLE USA SNTA-104125-2180-AZ	1 FX EACH WITH 48-350mA-True Amber Cree XP-E2	GROUND LEVEL	L				
PmS4H	9	CONC BASE W/ SQUARE NON TAPERED ALUM POLE	20 FEET	US ARCH LGT-RZRM- PLEDIV-48LED-350MA-TRUE AMBER CREE XPE2-208-RAL9003T-HSPLED-DF POLE USA SNTA-184188-1-AZ	1 FX EACH WITH 48-350mA-True Amber Cree XP-E2	GROUND LEVEL	L				
PmS5H	0	CONC BASE W/ SQUARE NON TAPERED ALUM POLE	12 FEET	US ARCH LGT-RZRM- PLEDV SQW-48LED-350MA-TRUE AMBER CREE XPE2-208-RAL9003T-HSPLED-DF POLE USA SNTA-104125-1-AZ	1 FX EACH WITH 48-350mA-True Amber Cree XP-E2	GROUND LEVEL	L				
PmD5H	18	CONC BASE W/ SQUARE NON TAPERED ALUM POLE	20 FEET	US ARCH LGT-RZRM- PLEDV SQW-48LED-350MA-TRUE AMBER CREE XPE2-208-RAL9003T-HSPLED-DF POLE USA SNTA-184188-2180-AZ	2 FX AT 180DEG EACH WITH 48-350mA-True Amber Cree XP-E2	GROUND LEVEL	L				
BmA	22	WALL	VARIES	QSSI WCTRS-A-C3-1X20-U-AM-K-Z-SP-VS	AMBER 590NM LED	VARIES	VARIES				
BmA E	5	WALL	VARIES	QSSI WCTRS-A-C3-1X20-U-AM-K-Z-SP-VS-BU	AMBER 590NM LED	VARIES	VARIES				
BmB	0	POLE OR PENDANT (VARIES)	VARIES	HUBBELL-BEACON-URB-MRSS26-24E245-AMB-UNV-T5W-NRNW-WHT	AMBER 590NM LED	VARIES	VARIES				

- 1 L (Landward side of structure)
B (Beach side of structure)
S (Shore perpendicular side of structure)

- 2 Ground Level (Level 1)
Second Level, Third Level, etc.
Pool Deck
Roof Top

- 3 A Excessive Wattage
B Wrong Type/Wavelength of Lamp
C Not Adequately Shielded
D Mounted Too High

- E Too Many Fixtures
F Inadequate or inaccurate Information Provided
G Decorative, not necessary for human safety

April 2014 FORM

NO.	DATE	DESCRIPTION	REVISIONS



PROJECT NAME: **TURTLE LIGHTING RETROFIT**
 SHEET NAME: **WAYSIDE PARK AND ISLAND PIER LIGHTING FIXTURE SCHEDULE**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-2.1

User: Is: Ischert14fr
 Project: 753600 Turtle Lighting Retrofits
 Plans: ASSEMBLY/E-2.1-2.2-WP_IP_IP_LFS.dgn
 Plot: Schedules\0000001\0000001.dwg
 Date: 19-DEC-2018 2:03

JOHN BEASLEY PARK EXTERIOR LIGHTING FIXTURE TABLE FOR THE MARINE TURTLE PROTECTION LIGHTING PLAN

Exterior lighting fixtures and lamps must be selected to meet established criteria which minimizes impacts to marine turtles. FWC recommendation of this fixture table does not relieve the applicant from the responsibility of meeting the established criteria once construction has occurred. Upon installation, if the criteria are not met, the fixtures, bulbs and or lamps must be shielded, replaced, realigned, or otherwise modified to meet the criteria. All site lighting installed under a DEP permit must be fully compliant with local lighting regulations, where applicable, and must not cause a disorientation or take of a marine turtle as defined under the Federal Endangered Species Act.

Project Name:	John Beasley Park Relighting
DEP File Numbers:	

Submitted by:	
Submittal Date:	
Drawing/Plan Date:	

FWC Reviewer:	To be completed by FWC
FWC Stamp Date:	To be completed by FWC

Note: It is recommended that this document be printed on legal size paper. Column/row sizes or print area can be adjusted as necessary.

Note: The last three (gray) columns will be completed by FWC staff.

Fixture Label	Fixture Quantity	Fixture/Mounting Type	Fixture Mounting Height	Manufacturer and Catalog No.	Lamp Type, Color and Wattage	Structure Level ² Each structure level must be on a separate row.	Location of Fixture ¹	Drawing Sheet Number	Labeled Cut Sheet Provided (Y/N)	Recommended by FWC (Y/N)	Reason Not Recommended ³ and/or Comments
BmA	0	WALL	VARIES	QSS WC TRSA-C3-1X20-U-AM-K-Z-SP-VS	AMBER 590NM LED	VARIES	VARIES				
BmB	6	POLE OR PENDANT (VARIES)	VARIES	HUBBELL-BEACON-URB-MRSS26-24E245-AMB-UNV-T5W-NRNV-WHT	AMBER 590NM LED	VARIES	VARIES				

- 1 L (Landward side of structure)
 B (Beach side of structure)
 S (Shore perpendicular side of structure)

- 2 Ground Level (Level 1)
 Second Level, Third Level, etc.
 Pool Deck
 Roof Top

- 3 A Excessive Wattage
 B Wrong Type/Wavelength of Lamp
 C Not Adequately Shielded
 D Mounted Too High

- E Too Many Fixtures
 F Inadequate or inaccurate Information Provided
 G Decorative, not necessary for human safety

April 2014 FORM

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
JOHN BEASLEY PARK LIGHTING FIXTURE SCHEDULE

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE:	12/19/18
PROJECT NO.:	753600
DRAWING NO.:	

E-2.3

CUTABLE
 19-DEC-2018 2:04

Plot: S:\s\1\00000001\000000
 PENTABLE

User: is... Ischert...
 Project: 753600 Turtle Lighting Retrofits\Code\PLANS ASSEMBLY\E-2.3-2.4...BP_LFS.dgn

JAMES LEE PARK EXTERIOR LIGHTING FIXTURE TABLE FOR MARINE TURTLE PROTECTION LIGHTING PLAN

Exterior lighting fixtures and lamps must be selected to meet established criteria which minimizes impacts to marine turtles. FWC recommendation of this fixture table does not relieve the applicant from the responsibility of meeting the established criteria once construction has occurred. Upon installation, if the criteria are not met, the fixtures, bulbs and or lamps must be shielded, replaced, realigned, or otherwise modified to meet the criteria. All site lighting installed under a DEP permit must be fully compliant with local lighting regulations, where applicable, and must not cause a disorientation or take of a marine turtle as defined under the Federal Endangered Species Act.

Project Name:	James Lee Park Relighting
DEP File Numbers:	

Submitted by:	
Submittal Date:	
Drawing/Plan Date:	

FWC Reviewer:	To be completed by FWC
FWC Stamp Date:	To be completed by FWC

Note: It is recommended that this document be printed on legal size paper. Column/row sizes or print area can be adjusted as necessary.

Note: The last three (gray) columns will be completed by FWC staff.

Fixture Label	Fixture Quantity	Fixture/Mounting Type	Fixture Mounting Height	Manufacturer and Catalog No.	Lamp Type, Color and Wattage	Structure Level ² <small>Each structure level must be on a separate row.</small>	Location of Fixture ¹	Drawing Sheet Number	Labeled Cut Sheet Provided (Y/N)	Recommended by FWC (Y/N)	Reason Not Recommended ³ and/or Comments
PmS4L	23	CONC BASE/W SQUARE NON TAPERED ALUM POLE	12 FEET	USARCH LG T-RZRM-PLEDIV-48LED-350MA-TRUE AMBER CREE XPE2-120-RAL9003T-HSPLED-SF-PC120V POLE: USA SNTA-104125-1-AZ	1 FIX EACH WITH 48-350mA-True Amber Cree XP-E2	GROUND LEVEL	L				
BmA	0	WALL	VARIES	QSSI WC TRSA-C3-1X20-U-AM-K-Z-SP-VS	AMBER 590NM LED	VARIES	VARIES				
BmA E	2	WALL	VARIES	QSSI WC TRSA-C3-1X20-U-AM-K-Z-SP-VS	AMBER 590NM LED	VARIES	VARIES				
BmB	1	POLE OR PENDANT (VARIES)	VARIES	HUBBELL-BEACON-URB-MRSS26-24E245-AMB-UNV-T5W-NRNW-WHT	AMBER 590NM LED	VARIES	VARIES				
BmC	0	POLE OR PENDANT (VARIES)	VARIES	HUBBELL-BEACON-URB-MRSS26-24E245-AMB-UNV-T5W-NRNW-BBT	AMBER 590NM LED	VARIES	VARIES				

- | | | | |
|---|---------------------------------|---------------------------------|---|
| 1 L (Landward side of structure) | 2 Ground Level (Level 1) | 3 A Excessive Wattage | E Too Many Fixtures |
| B (Beach side of structure) | Second Level, Third Level, etc. | B Wrong Type/Wavelength of Lamp | F Inadequate or inaccurate Information Provided |
| S (Shore perpendicular side of structure) | Pool Deck | C Not Adequately Shielded | G Decorative, not necessary for human safety |
| | Roof Top | D Mounted Too High | |

April 2014 FORM

NO.	DATE	DESCRIPTION	BY



PROJECT NAME: **TURTLE LIGHTING RETROFIT**
 SHEET NAME: **JAMES LEE PARK LIGHTING FIXTURE SCHEDULE**



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

CUTABLE
 19-DEC-2018 2:05

Plot_Schedule_00000001_000000
 PENTABLE

User: is_ishart14fr
 P:\Projects\753600_Turtle Lighting Retrofits\Cadd\PLANS ASSEMBLY\E-2.5-2.6-ULP_LFS.dgn

JAMES LEE PARK EXTERIOR LIGHTING FIXTURE TABLE FOR MARINE TURTLE PROTECTION LIGHTING PLAN

Exterior lighting fixtures and lamps must be selected to meet established criteria which minimizes impacts to marine turtles. FWC recommendation of this fixture table does not relieve the applicant from the responsibility of meeting the established criteria once construction has occurred. Upon installation, if the criteria are not met, the fixtures, bulbs and or lamps must be shielded, replaced, realigned, or otherwise modified to meet the criteria. All site lighting installed under a DEP permit must be fully compliant with local lighting regulations, where applicable, and must not cause a disorientation or take of a marine turtle as defined under the Federal Endangered Species Act.

Project Name:	James Lee Park Relighting
DEP File Numbers:	

Submitted by:	
Submittal Date:	
Drawing/Plan Date:	

FWC Reviewer:	To be completed by FWC
FWC Stamp Date:	To be completed by FWC

Note: It is recommended that this document be printed on legal size paper. Column/row sizes or print area can be adjusted as necessary.

Note: The last three (gray) columns will be completed by FWC staff.

Fixture Label	Fixture Quantity	Fixture/Mounting Type	Fixture Mounting Height	Manufacturer and Catalog No.	Lamp Type, Color and Wattage	Structure Level ² Each structure level must be on a separate row.	Location of Fixture ¹	Drawing Sheet Number	Labeled Cut Sheet Provided (Y/N)	Recommended by FWC (Y/N)	Reason Not Recommended ³ and/or Comments
BmD	0	SURFACE CEILING	VARIES	HYDREL-4762-LED-AMBLW-MVOLT120/277-VCNP-CMDE-WLHS-TPH-SND	AMBER 591NM LED	VARIES	VARIES				
BmE	0	SURFACE CEILING	VARIES	HYDREL-4764-LED-AMBLW-MVOLT120/277-VCNP-CMDE-WLHS-TPH-SND	AMBER 591NM LED	VARIES	VARIES				
BmF	20	SURFACE WALL	VARIES	WAVE LIGHTING-S33W-T-INCADESCENT-WH	AMBER 585NM LED SEE NOTE	VARIES	VARIES				
BmG	2	SURFACE CEILING	VARIES	HK LIGHTING ZX30i-CM-AMB-WT (15W)	AMBER 588NM LED	SECOND	B				
BmJ	5	SURFACE STAIRS	VARIES	LED LINEAR XOOLUM A TON COLOR Y / 10"-BA-FS IP67 45-deg AIM	AMBER 588NM LED	VARIES	VARIES				
NOTE: PROVIDE PAR 20 AMBER LED, 10W BULB, WITH EACH BmF FIXTURE											
BRA	22	RELAMP EXIST LGT FX	VARIES	SUNLITE-S14 WITH E26 BASE	EPISTAR-45 LUMENS-600NM	VARIES	VARIES				
BRB	0	RELAMP EXIST LGT FX	VARIES	ECO/SMART-LTLED-A19-10WA-AMBER WITH A19 BASE	9 WATT-590NM-490 LUMENS	VARIES	VARIES				

- 1 L (Landward side of structure)
- B (Beach side of structure)
- S (Shore perpendicular side of structure)

- 2 Ground Level (Level 1)
- Second Level, Third Level, etc.
- Pool Deck
- Roof Top

- 3 A Excessive Wattage
- B Wrong Type/Wavelength of Lamp
- C Not Adequately Shielded
- D Mounted Too High

- E Too Many Fixtures
- F Inadequate or inaccurate Information Provided
- G Decorative, not necessary for human safety

April 2014 FORM

NO.	DATE	DESCRIPTION	REVISIONS	BY



PROJECT NAME: **TURTLE LIGHTING RETROFIT**
SHEET NAME: **JAMES LEE PARK LIGHTING FIXTURE SCHEDULE**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

CUT TABLES
 19-DEC-2018 2:05

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 PRINTABLES

User: is_ishort14fr
 Project: 753600 Turtle Lighting Retrofits@Code@PLANS ASSEMBLY@E-2.6-2.6...JLP_LFS.dgn

NO.	DATE	DESCRIPTION	BY



PROJECT NAME: **TURTLE LIGHTING RETROFIT**
SHEET NAME: **SURGE SUPPRESSION SCHEDULE**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-2.7

Surge Suppression Schedule - Okaloosa County Turtle Lighting Project							
Identifier	Voltage/Phase	SSI Model Number	Peak Surge Current per Phase (kA)	Frequency Responsive Circuitry (Note 1)	NEMA 4X Polycarbonate Enclosure	Meyers Hub w/ Chase Nipple	Remote Indicator Light Kit
SPD-A	120/240 Single Phase	CRMA101S1X3E30-21	100	Yes	Yes	Yes	No
SPD-B	120/240 Three Phase	CRMA103D1X3E30-21	100	Yes	Yes	Yes	No
SPD-C	120Y208 Three Phase	CRMA103Y1X3E30-21	100	Yes	Yes	Yes	No
SPD-D	120/240 Single Phase	CRMA101S1E30-21	100	Yes	No	Yes	No
SPD-E	120/240 Three Phase	CRMA103D1E30-21	100	Yes	No	Yes	No
SPD-F	120Y208 Three Phase	CRMA103Y1E30-21	100	Yes	No	Yes	No
SPD-G	120 Single Phase	SPT2-1P1-LP-21	60	Yes	No	No	Yes
SPD-H	208 Single Phase	SPT2-2N2-LP-21	60	Yes	No	No	Yes

Note 1: Branch Circuit panels serving sensitive electronic equipment shall utilize voltage independent Frequency Responsive Circuitry (FRS) or Sinewave Tracking. EMI/RFI filtering will not be considered as equal to Frequency Responsive Circuitry.

NOTE: CONTRACTOR TO FIELD VERIFY ALL VOLTAGE REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.

Plot: S:\c\1\000000\01\0000000
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19-DEC-2018 2:04

User: is... Ischert...
Project: 753600 Turtle Lighting Retrofit
Retrofits\Codes\PLANS ASSEMBLY\E-2.7_SURGE_SCHEDULE.dgn

MIRACLE STRIP PKWY

NO.	DATE	DESCRIPTION	BY



PROJECT NAME: **TURTLE LIGHTING RETROFIT**
WAYSIDE AND ISLAND PIER
PHOTOMETRICS

VOLKERT



DESIGNED: JB
CHECKED: KP
DRAWN: JG
CHECKED: JB
DATE: 12/19/18
PROJECT NO.: 753600
DRAWING NO.:

E-2.8

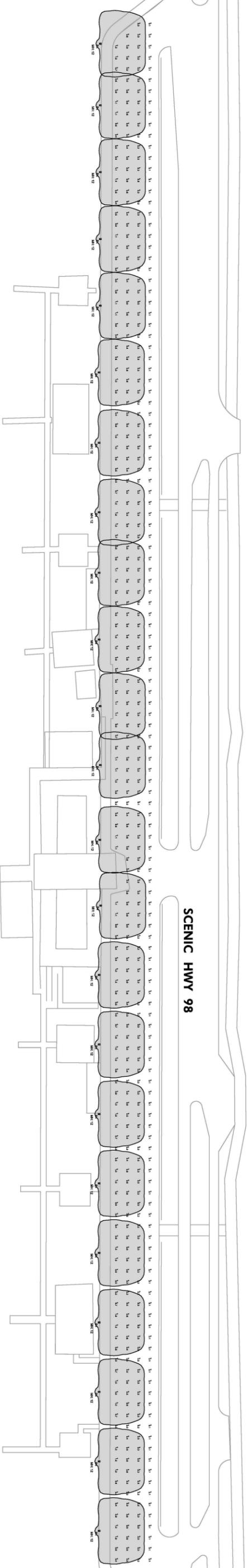
Label	CalcType	Avg	Max	Min	Avg/Min	Max/Min
PARKING	Illuminance	0.65	2.0	0.2	3.25	10.00

Label	Symbol	Qty	Arrangement	Description	LLF	Load VA	Lum. Lumens
B2	[Symbol]	4	SINGLE	USA # RZRM-PLD-II-4LED-350mA-AMBER-VOLT FINISH HS-PLD	0.390	54.7	4530
B21	[Symbol]	4	SINGLE	USA # RZRM-PLD-II-4LED-350mA-AMBER-VOLT FINISH HS-PLD	0.390	54.7	4530
B4	[Symbol]	9	SINGLE	USA # RZRM-PLD-IV-FT-4LED-350mA-AMBER-VOLT FINISH HS-PLD	0.390	54.6	4368
B41	[Symbol]	8	SINGLE	USA # RZRM-PLD-IV-FT-4LED-350mA-AMBER-VOLT FINISH HS-PLD	0.390	54.6	4368
PS2	[Symbol]	18	2 @ 180 DEGREES	USA # RZRM-PLD-V-SQ-4LED-350mA-AMBER-VOLT FINISH	0.390	109.4	6445
C42	[Symbol]	21	2 @ 180 DEGREES	USA # RZRM-PLD-IV-FT-4LED-350mA-AMBER-VOLT FINISH HS-PLD	0.390	109.2	4368



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Individual Summary						
Name	Quantity	Unit	Area	Vol	Weight	Material
FRONT	1	EA	1.1	0.1	1.1	1.1

Inventory Summary						
Name	Symbol	Qty	Arrangement	Description	Unit	Unit Value
FR	FR	1	SINGLE	USA FORDA 2014 F148320304AMBIENT T FRESH HIGHLIGHT	EA	2000

SCENIC HWY 98



DESIGNED: JB
 DRAWN: JG
 DATE: 12/19/18

CHECKED: KP
 CHECKED: JB

PROJECT NO.: 753600
 DRAWING NO.: E-2.9



VOLKERT

PROJECT NAME: **TURTLE LIGHTING RETROFIT**

SHEET NAME: **JAMES LEE PARK PHOTOMETRICS**



NO.	DATE	DESCRIPTION	BY

PROJECT NO.: 753600
 DRAWING NO.: **11 OF 65**

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

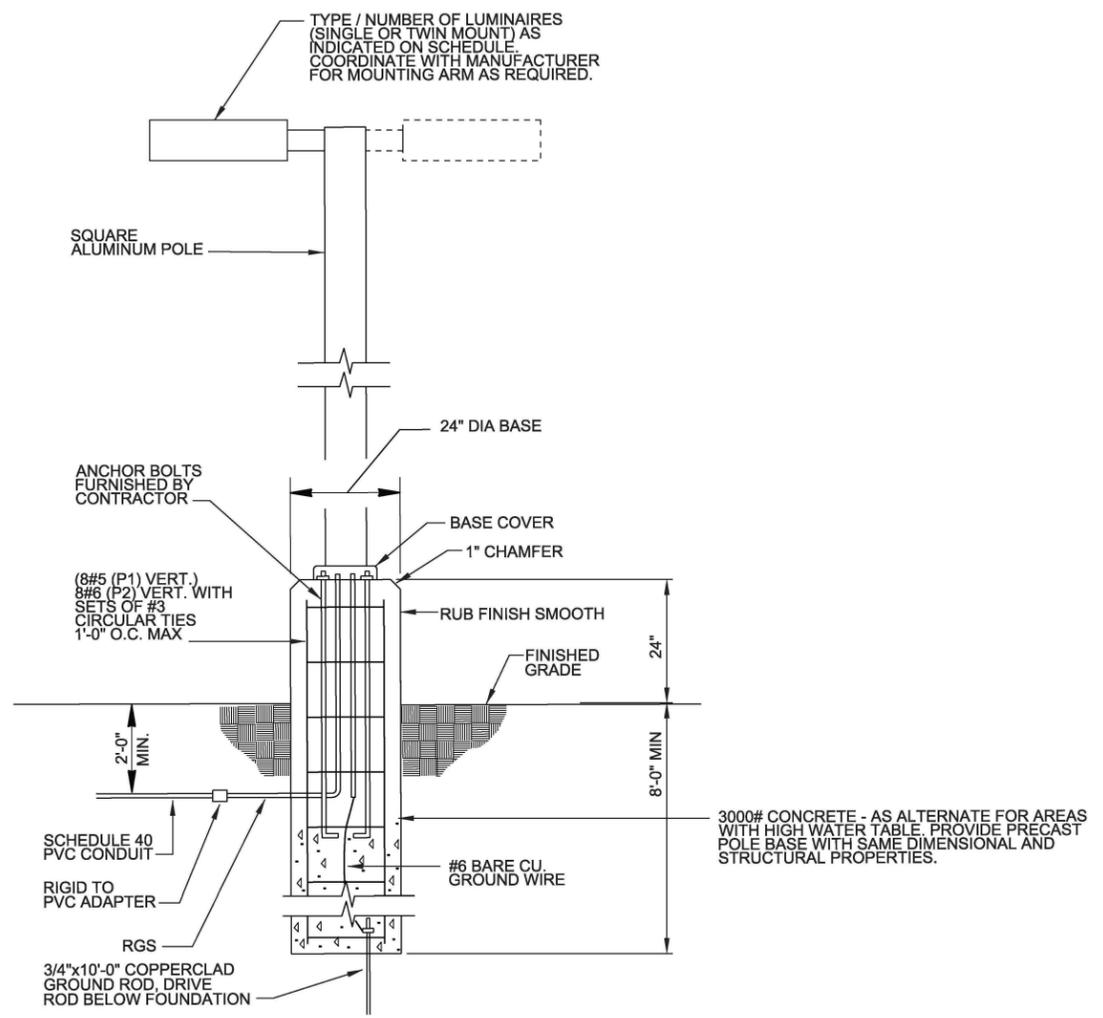
SHEET NAME:
PROJECT DETAILS

VOLKERT



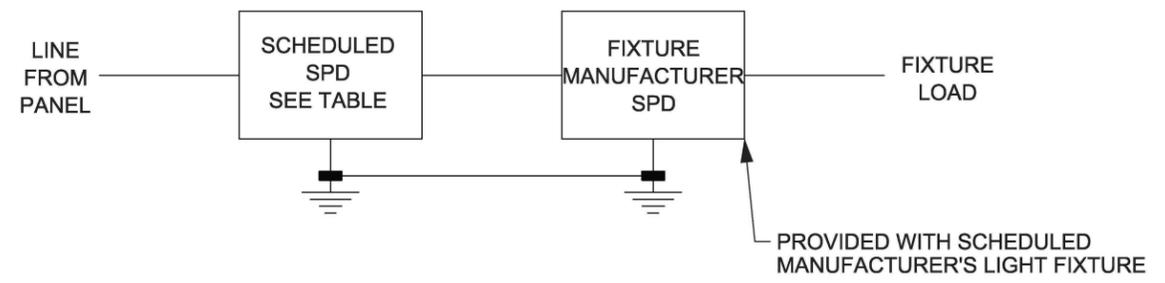
DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-2.10



- NOTES:**
- REFER TO LUMINAIRE SCHEDULE FOR POLE HEIGHTS.
 - INSTALL SURGE PROTECTION IN POLE BASES. BOTH FIXTURE MANUFACTURER SUPPLIED SPD AS WELL AS SPD-G OR SPD-H AS REQUIRED.

LIGHTING POLE DETAIL
SCALE: NONE



SPD WIRING IN POLE BASE
SCALE: NONE

CUI, CRT, BL, E, S
 19-DEC-2018 2:10:05

Plot: S:\cui\753600\00000001.dwg
 \$PENTABLE\$

User: is...
 Project: 753600 Turtle Lighting Retrofit
 Plans: ASSEMBLY/E-2.10.LIGHTING DETAIL.dwg

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

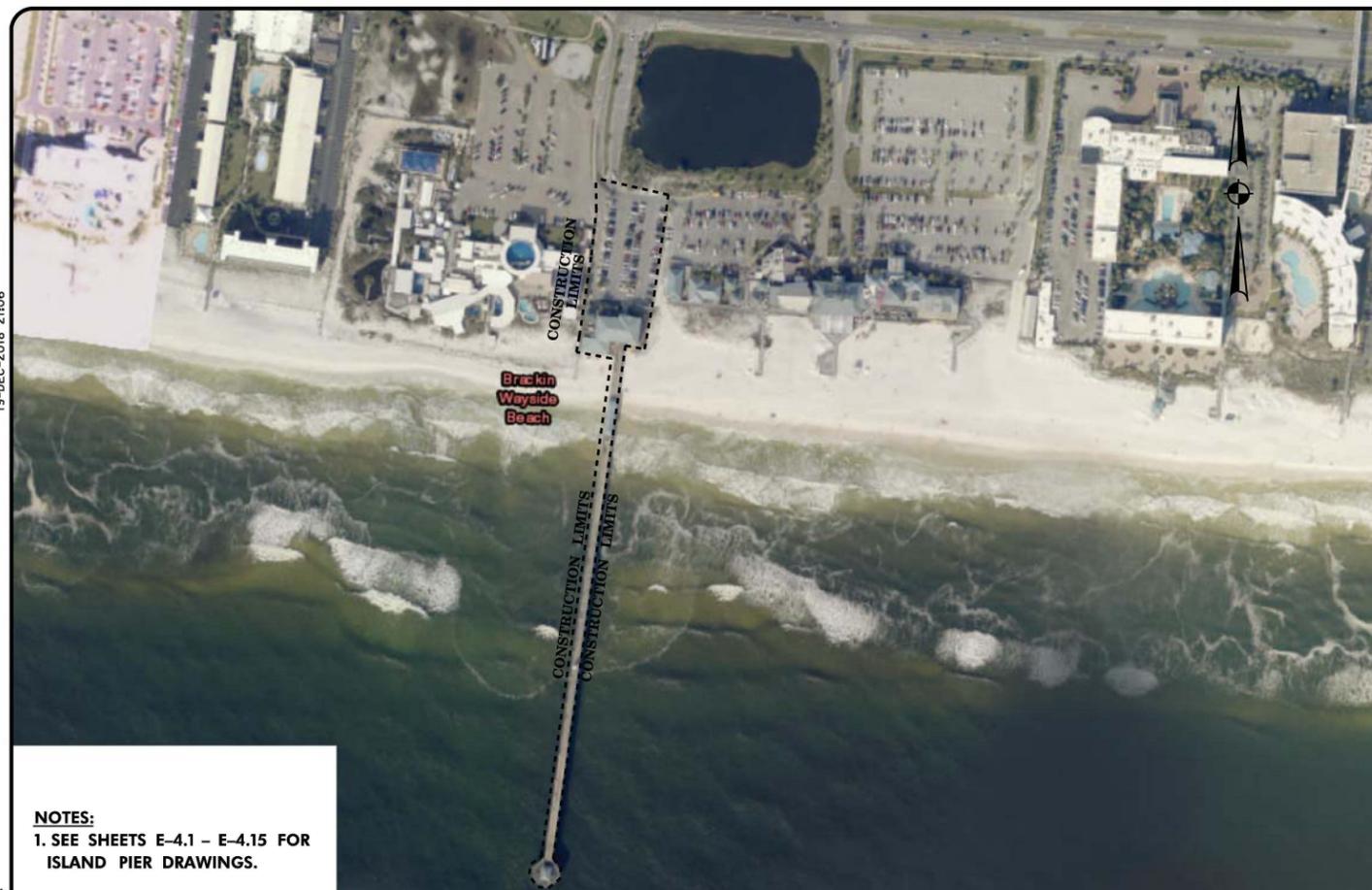
SHEET NAME:
PROJECT SITE LAYOUT SHEET

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE:	12/19/18
PROJECT NO.:	753600
DRAWING NO.:	

E-3.0



NOTES:
1. SEE SHEETS E-4.1 - E-4.15 FOR ISLAND PIER DRAWINGS.

ISLAND PIER SITE



NOTES:
1. SEE SHEETS E-5.1 - E-5.15 FOR WAYSIDE PARK DRAWINGS.

WAYSIDE PARK SITE



NOTES:
1. SEE SHEETS E-6.1 - E-6.6 FOR JOHN BEASLEY PARK DRAWINGS.

JOHN BEASLEY PARK SITE



NOTES:
1. SEE SHEETS E-7.1 - E-7.16 FOR JAMES LEE PARK DRAWINGS.

JAMES LEE PARK SITE

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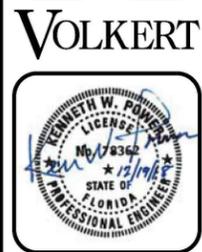
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NO.	DATE	DESCRIPTION	BY



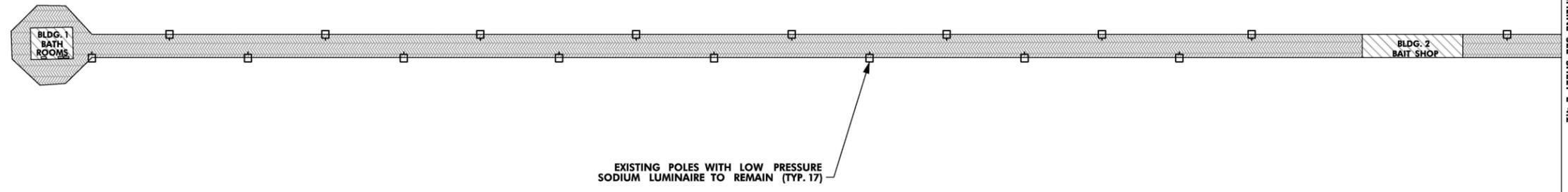
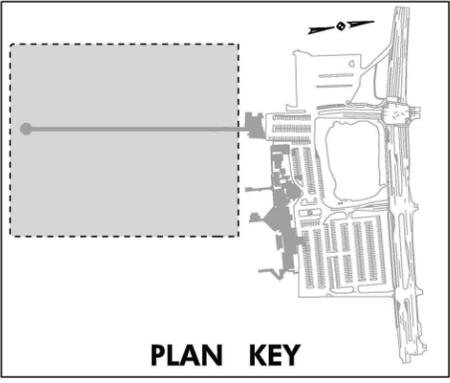
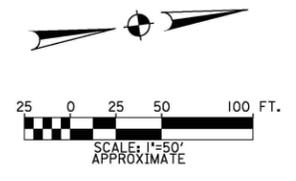
PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
**ISLAND PIER
DEMOLITION PLAN**



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.1



NOTES:
1. RETAIN ALL EXISTING LIGHT POLES AND CIRCUITRY UNLESS OTHERWISE NOTED.
2. SEE SHEETS E-4.3 - E-4.5 FOR BUILDING DEMOLITION PLANS.

Plot: S:\s1s\50-0000000\01-0000000
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User: is_1schert1\fr
 Project: 753600 Turtle Lighting Retrofits\Code\PLANS ASSEMBLY\E-4.1_IP_DEMO_PLAN.dgn

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

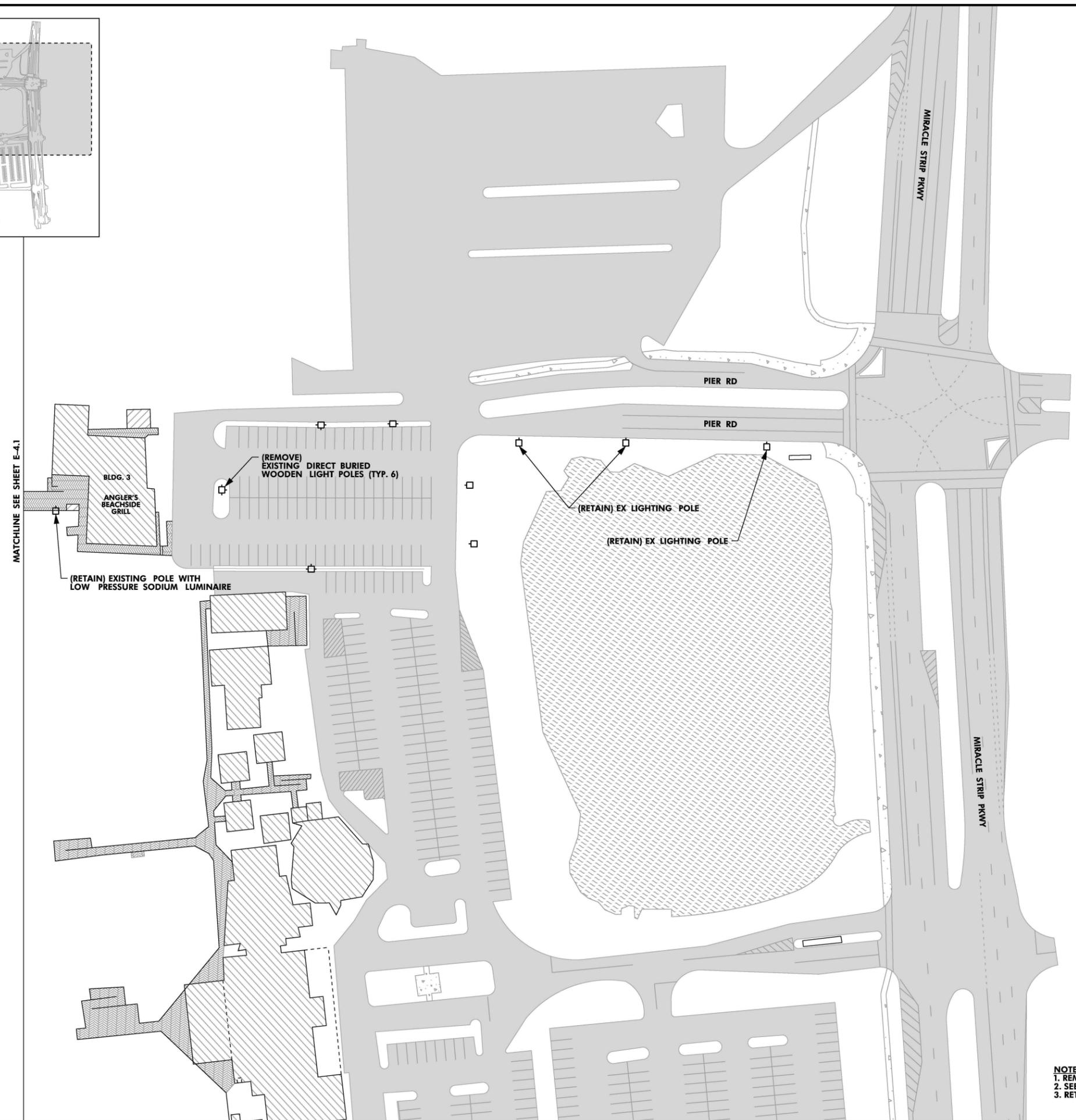
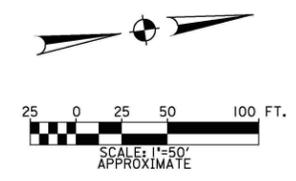
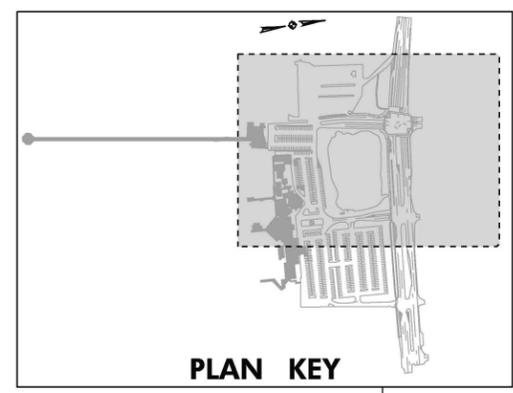
SHEET NAME:
**ISLAND PIER
DEMOLITION PLAN**

VOLKERT



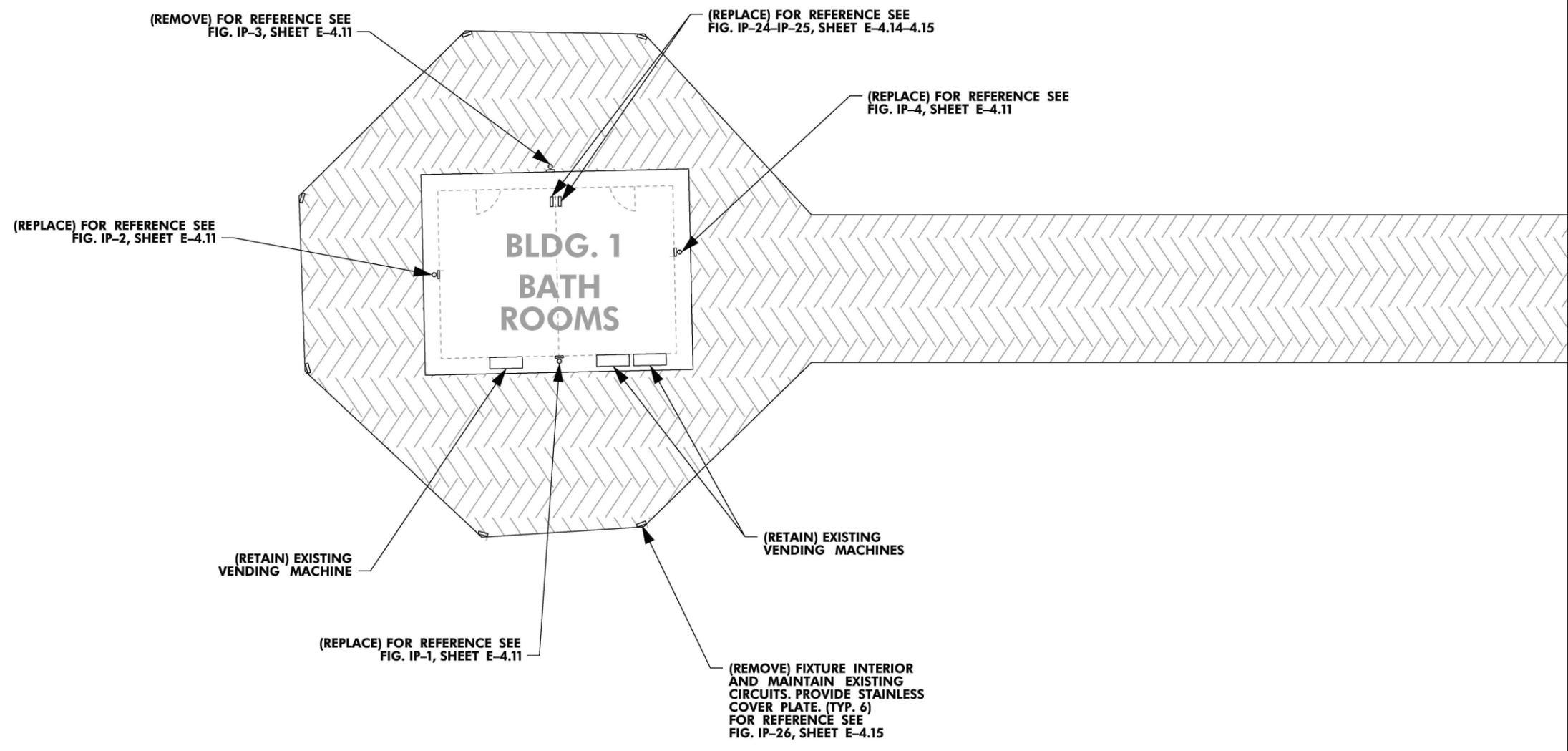
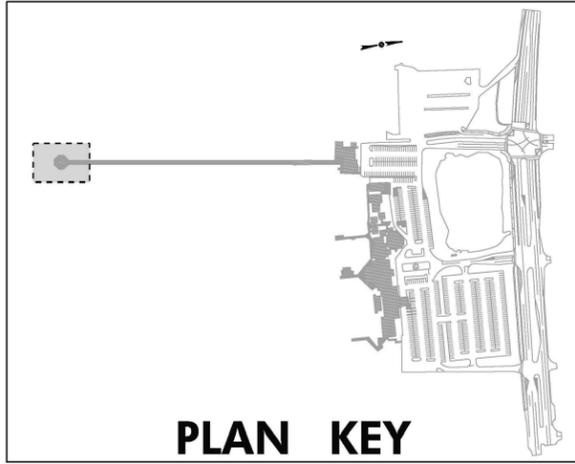
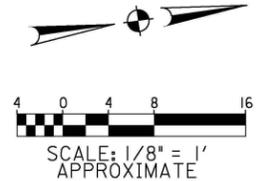
DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.2



NOTES:
1. REMOVE ALL EXISTING LIGHT POLES AND CIRCUITRY UNLESS OTHERWISE NOTED.
2. SEE SHEETS E-4.3 - E-4.5 FOR BUILDING DEMOLITION PLANS.
3. RETAIN ALL EXISTING POWER POLES UNLESS OTHERWISE NOTED.

User: is_ishort116r
 Project: 753600 Turtle Lighting Retrofits@Code@PLANS ASSEMBLY@E-4.2_IP_DEMO_PLAN.dgn
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NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
ISLAND PIER DEMOLITION PLAN

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.3

Plot: S:\s15\8\00000001\00000000.dwg
19-DEC-2018 2:02

Plot: S:\s15\8\00000001\00000000.dwg
19-DEC-2018 2:02

User: is... Ischert...
Project: 753600 Turtle Lighting Retrofits
Plans Assembly: E-4.3_IP_DEMO_PLAN.dgn

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

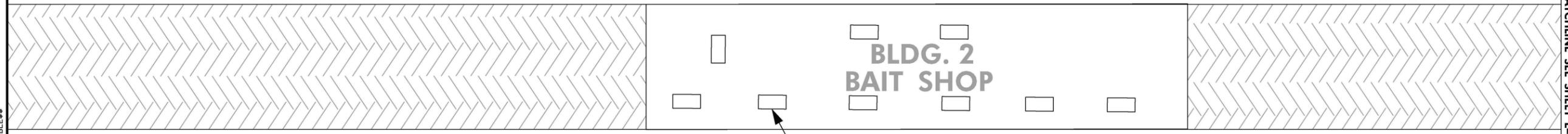
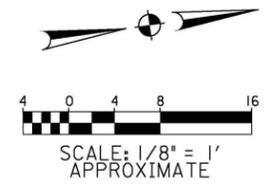
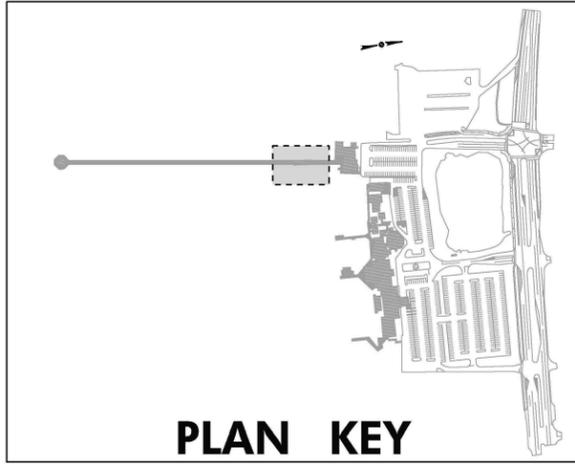
SHEET NAME:
ISLAND PIER DEMOLITION PLAN

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.4



(REPLACE) EXISTING SURFACE MOUNTED 2' X 4' FLUORESCENTS FOR REFERENCE SEE FIG. IP-5, SHEET E-4.11 (TYP. 9)

MATCHLINE SEE SHEET E-4.5

Plot: S:\c1s\8_00000001_00000000.dwg
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Plot: S:\c1s\8_00000001_00000000.dwg
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User: is_1schortliff
Project: 753600 Turtle Lighting Retrofits\Code\PLANS ASSEMBLY\E-4.4_IP_DEMO_PLAN.dgn

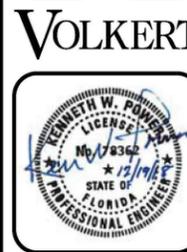
PROJECT NO.:
753600
DRAWING NO.:
19 OF 65

NO.	DATE	DESCRIPTION	BY



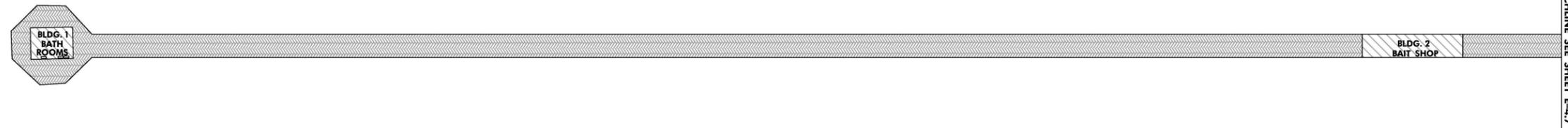
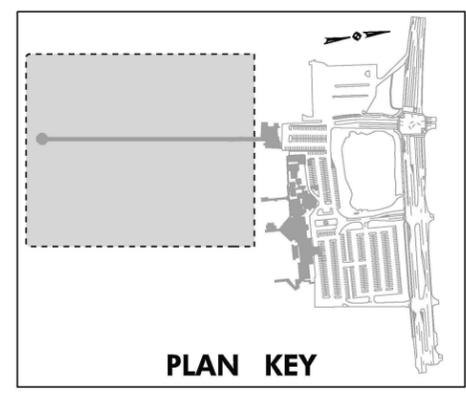
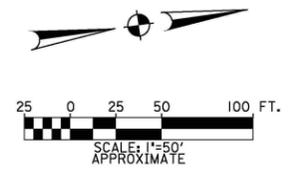
PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
ISLAND PIER LIGHTING PLAN



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.6

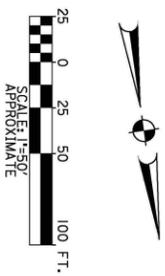
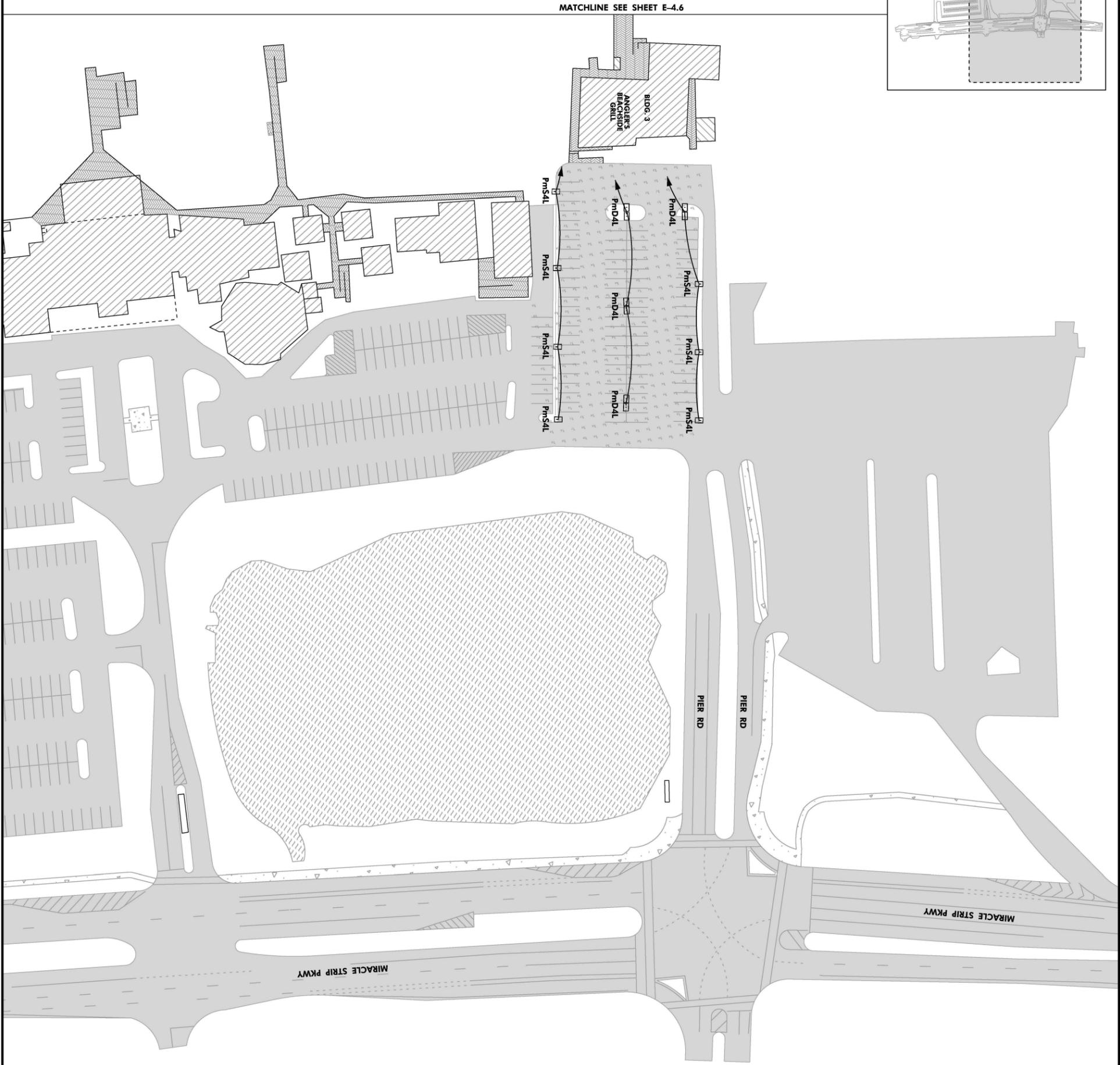
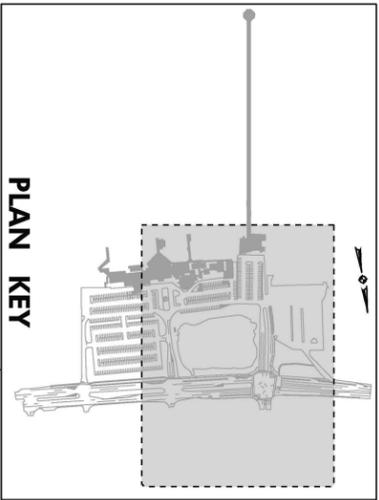


NOTES:
1. SEE SHEETS E-4.8 - E-4.10 FOR BUILDING LIGHTING PLANS.

CUI, CRT, BL, E, S
 19-DEC-2018 2:14:02

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 \$\$\$PEN TABLE\$\$\$

User: is_ishort14fr
 Project: 753600 Turtle Lighting Retrofits@Code@PLANS ASSEMBLY@E-4.6_IP_PLAN.dgn



NOTES:
 1. SEE SHEETS E-4.8 - E-4.10 FOR BUILDING LIGHTING PLANS.
 2. CONNECT NEW SITE LIGHTING CIRCUITS TO EXISTING
 3. CONDUIT AND RISE PANELBOARDS AND CONTRACTORS.
 4. BUILDING MOUNTED PANELBOARDS AND CONTRACTORS.

DESIGNED BY JB	CHECKED BY KP
DRAWN BY JG	CHECKED BY JB
DATE 12/19/18	
PROJECT NO. 753600	
DRAWING NO. E-4.7	



VOLKERT

PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
ISLAND PIER LIGHTING PLAN



NO.	DATE	DESCRIPTION	BY

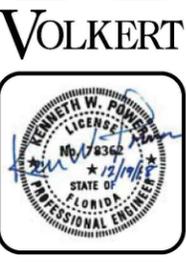
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 753600
 DRAWING NO.4
20 OF 65

NO.	DATE	DESCRIPTION	BY



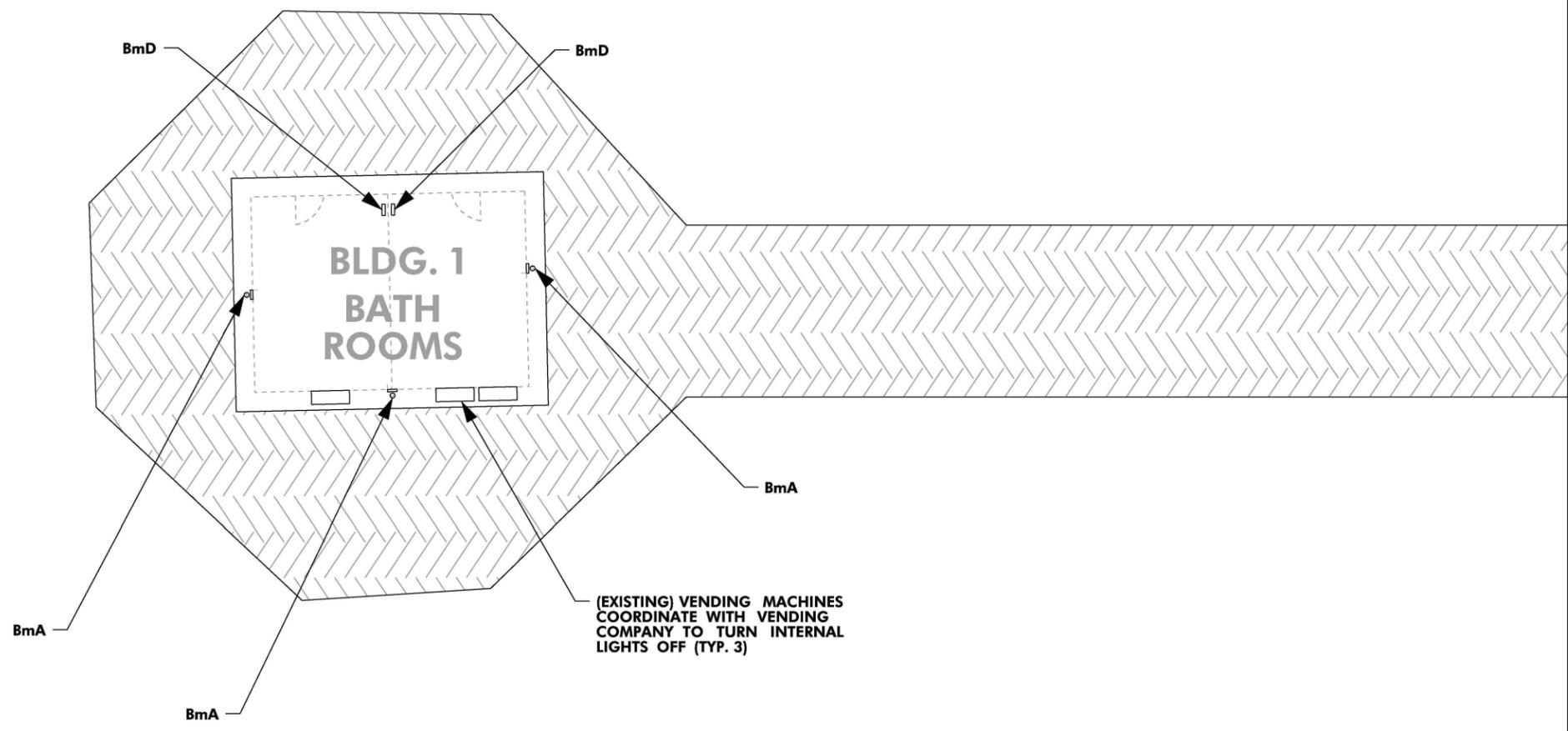
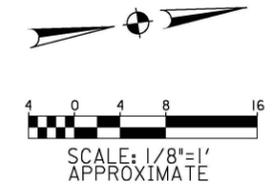
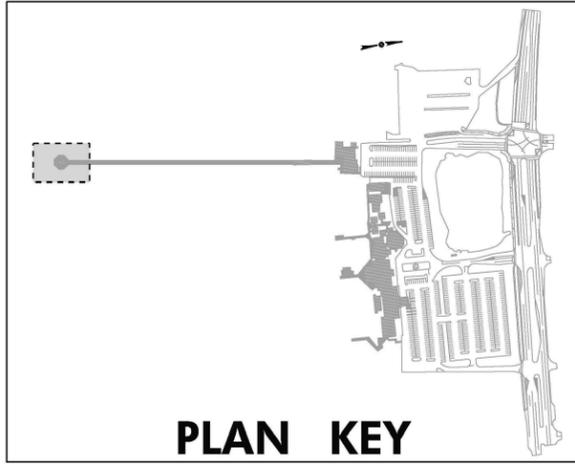
PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
ISLAND PIER LIGHTING PLANS



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.8



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 \$PENTABLE\$

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

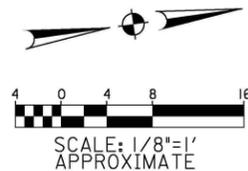
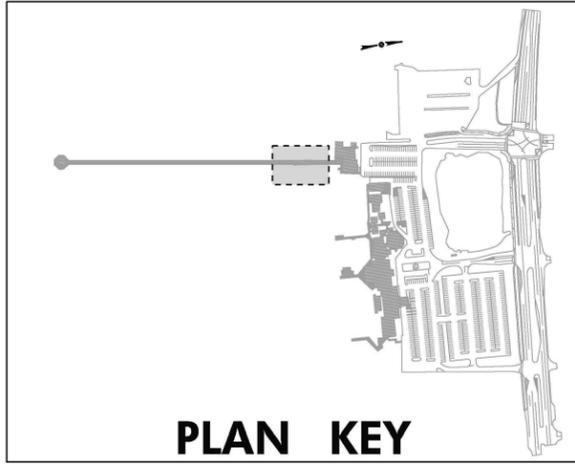
SHEET NAME:
ISLAND PIER LIGHTING PLANS

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.9



CONNECT TO EXISTING CIRCUIT (TYP. 9)

**BLDG. 2
BAIT SHOP**

BmE, (TYP. 9)

MATCHLINE SEE SHEET E-4.10

Plot: S:\s1s\8,000000\1,000000
\$PENTABLE\$

Plot: S:\s1s\8,000000\1,000000
\$PENTABLE\$

User: is_ishort14fr
Project: 753600 Turtle Lighting Retrofits\Code\PLANS ASSEMBLY\E-4.9_IP_PLAN.dgn

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

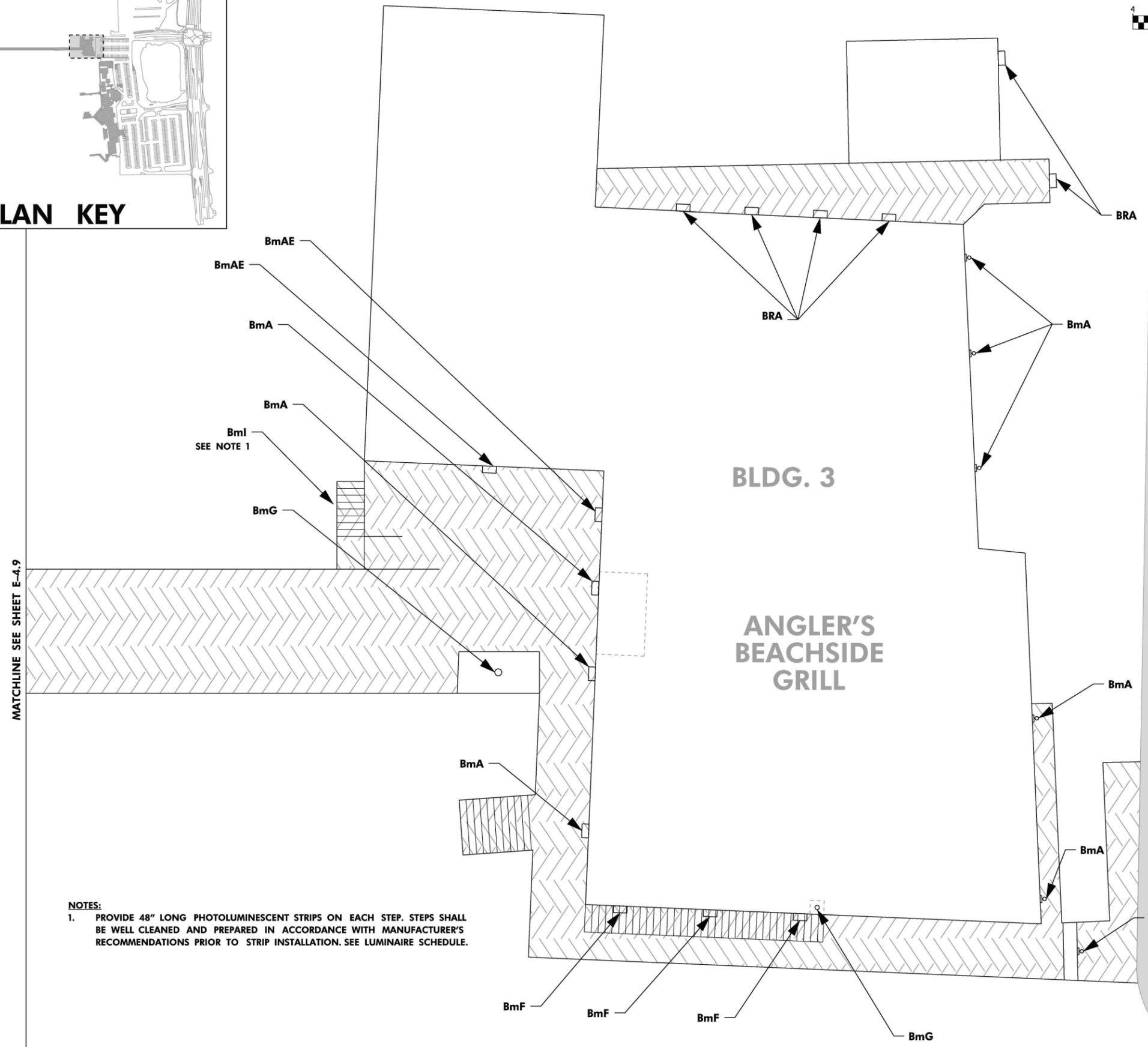
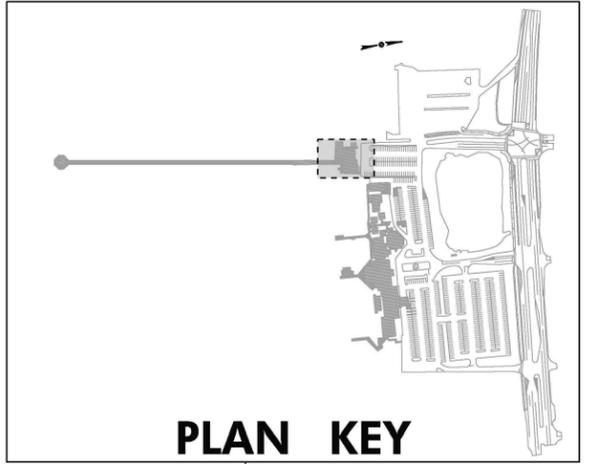
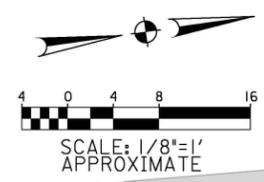
SHEET NAME:
ISLAND PIER LIGHTING PLANS

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.10



NOTES:
1. PROVIDE 48" LONG PHOTOLUMINESCENT STRIPS ON EACH STEP. STEPS SHALL BE WELL CLEANED AND PREPARED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO STRIP INSTALLATION. SEE LUMINAIRE SCHEDULE.

User: is_ishort14fr
 Project: 753600_Turtle Lighting Retrofits@Code@PLANS_ASSEMBLY@E-4.10_IP_PLAN.dgn
 Plot: S:\s\753600\753600.dwg
 19-DEC-2018 2:02

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
**ISLAND PIER
PHOTO REFERENCE DETAILS**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.12



FIG. IP-7



FIG. IP-8



FIG. IP-9



FIG. IP-10



FIG. IP-11



FIG. IP-12

Plot: S:\s1s\1_00000001_00000000
 \$PENTABLE\$
 19-DEC-2018 21:02

User: Is... Ischert...
 Project: 753600 Turtle Lighting Retrofit
 Plans: ASSEMBLY#E-4.12_IP_DETAILS.dgn

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
**ISLAND PIER
PHOTO REFERENCE DETAILS**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-4.15



FIG. IP-25



FIG. IP-26



FIG. IP-27



FIG. IP-28



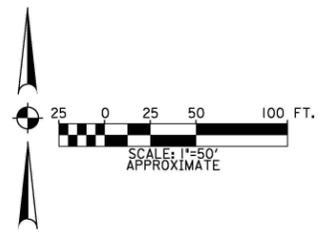
FIG. IP-29



FIG. IP-30

Plot: S:\s1\10000000\10000000.dwg
 \$PENTABLE\$
 19-DEC-2018 2:05

User: jg...
 Project: 753600 - Turtle Lighting Retrofit
 Plans: ASSEMBLY/E-4.15_IP_DETAILS.dgn



NO.	DATE	DESCRIPTION	REVISIONS



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
**WAYSIDE PARK
DEMOLITION PLAN**

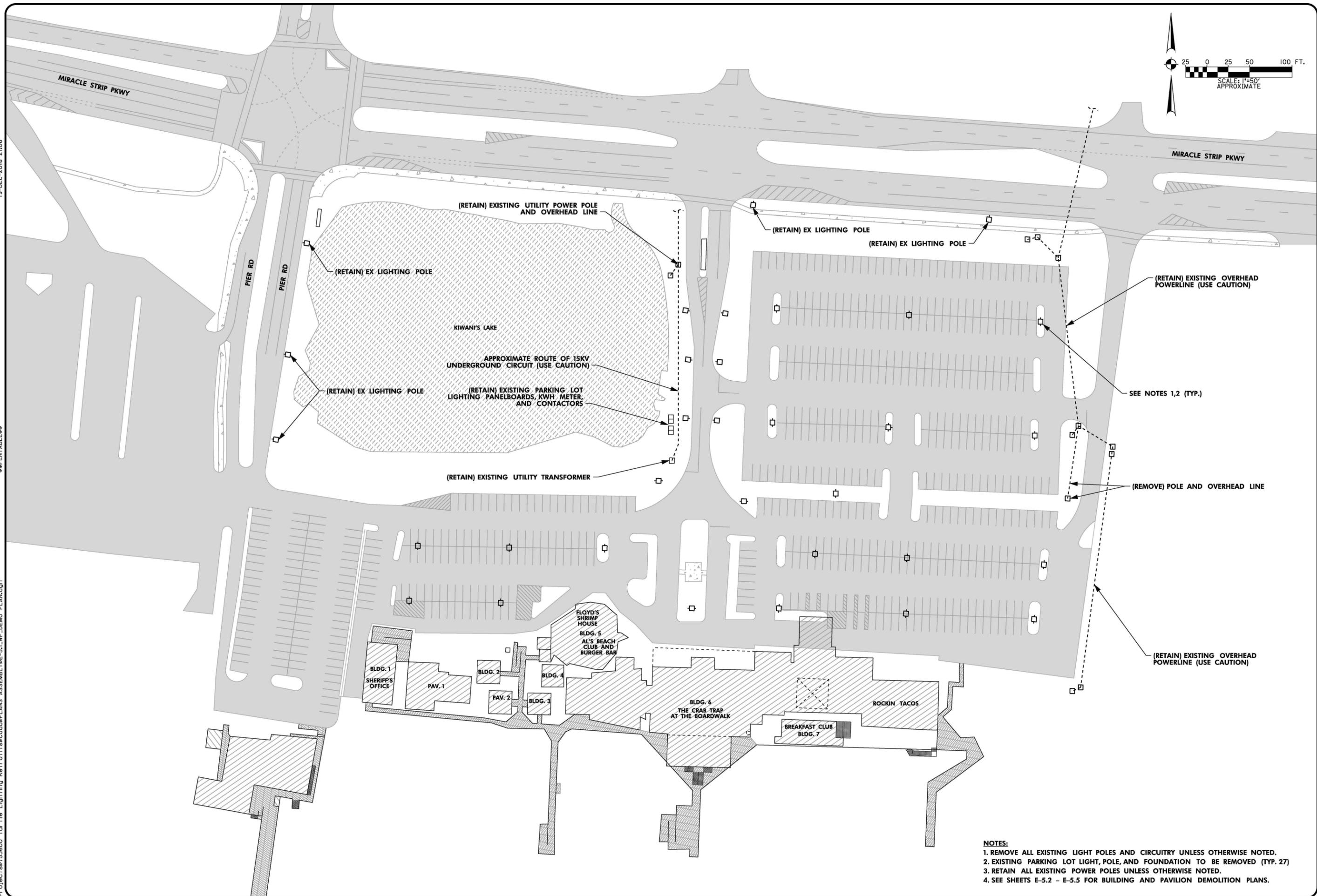
VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-5.1

User: Is: Ischert14fr
 Project: 753600 Turtle Lighting Retrofit
 Plans Assembly: E-5.1_WP_DEMO_PLAN.dgn
 Plot: S:\s\753600\00000001\00000001.dwg
 \$PENTABLE\$
 19-DEC-2018 2:06



- NOTES:**
1. REMOVE ALL EXISTING LIGHT POLES AND CIRCUITRY UNLESS OTHERWISE NOTED.
 2. EXISTING PARKING LOT LIGHT, POLE, AND FOUNDATION TO BE REMOVED (TYP. 27)
 3. RETAIN ALL EXISTING POWER POLES UNLESS OTHERWISE NOTED.
 4. SEE SHEETS E-5.2 - E-5.5 FOR BUILDING AND PAVILION DEMOLITION PLANS.

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

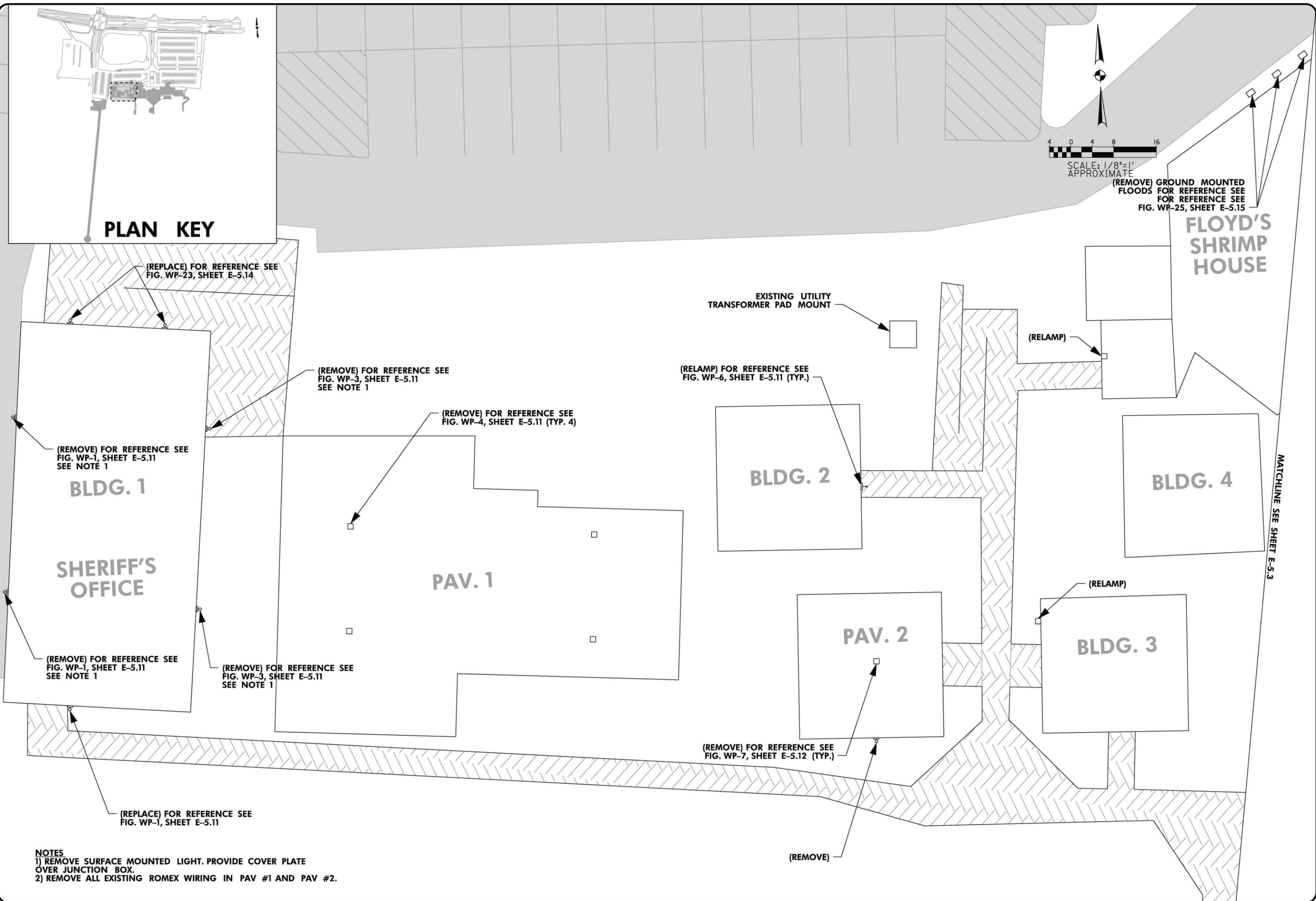
SHEET NAME:
**WAYSIDE PARK
DEMOLITION PLAN**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-5.2



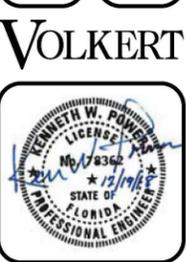
NOTES
1) REMOVE SURFACE MOUNTED LIGHT. PROVIDE COVER PLATE OVER JUNCTION BOX.
2) REMOVE ALL EXISTING ROMEX WIRING IN PAV #1 AND PAV #2.

User: Is: Ischert14fr
 Project: 753600 Turtle Lighting Retrofit
 Plans Assembly: E-5.2_WP_DEMO_PLAN.dgn
 Plot: Scale: 8.00000001, 0.000000
 \$PENTABLE\$

NO.	DATE	DESCRIPTION	BY

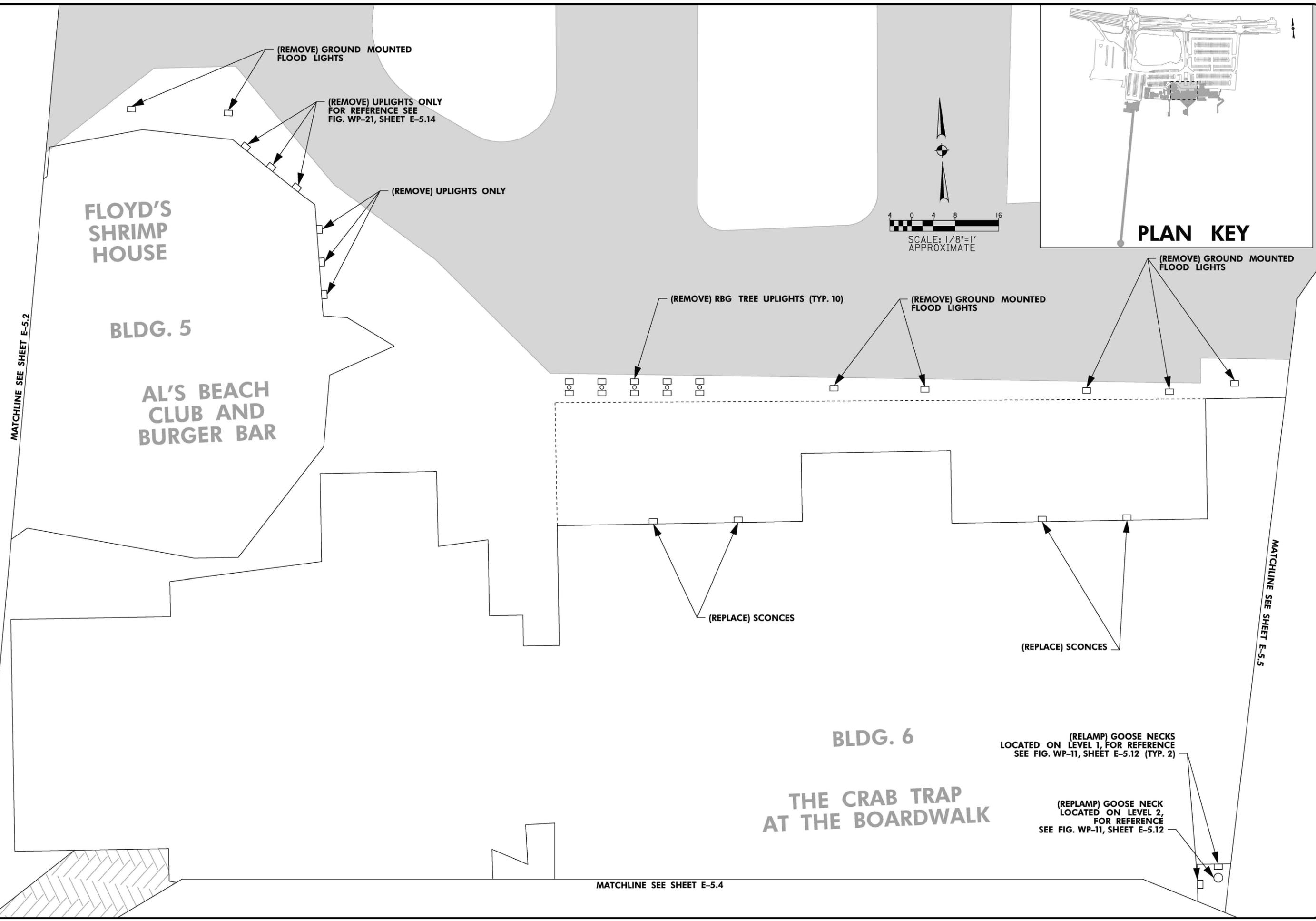
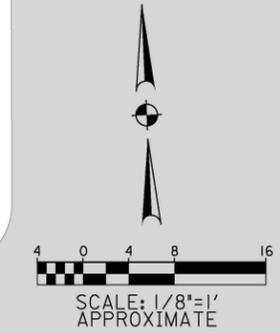
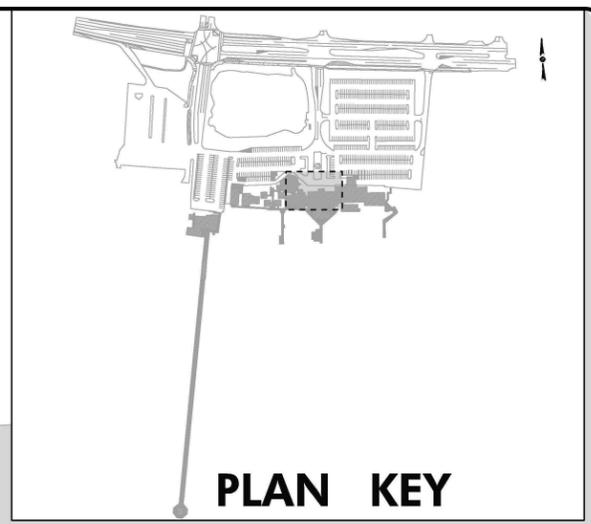


PROJECT NAME: TURTLE LIGHTING RETROFIT
 SHEET NAME: WAYSIDE PARK DEMOLITION PLAN



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-5.3



User: Is: Ischert1.fir
 Project: 753600 Turtle Lighting Retrofits@Plans ASSEMBLY@E-5.3_WP_DEMO_PLAN.dgn
 Plot: Scale: 8,0000000;1,000000
 \$PENTABLE\$
 19-DEC-2018 2:01

MATCHLINE SEE SHEET E-5.2

MATCHLINE SEE SHEET E-5.5

MATCHLINE SEE SHEET E-5.4

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
WAYSIDE PARK DEMOLITION PLAN

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-5.4

MATCHLINE SEE SHEET E-5.3

MATCHLINE SEE SHEET E-5.5

(REMOVE) ROOF MOUNTED FLOOD LIGHTS FOR REFERENCE SEE FIG. WP-8, SHEET E-5.12

(REMOVE) WALL PACKS LOCATED ON LEVEL 1 FOR REFERENCE SEE FIG. WP-9, SHEET E-5.12

(RELAMP) LOCATED ON LEVEL 1 FOR REFERENCE SEE FIG. WP-9, SHEET E-5.12

(RELAMP) LOCATED ON LEVEL 1 FOR REFERENCE SEE FIG. WP-9, SHEET E-5.12

(REPLACE) WALL PACK LOCATED ON LEVEL 1 FOR REFERENCE SEE FIG. WP-9, SHEET E-5.12

(REPLACE) SURFACE MOUNTED HID

(REMOVE) ROOF MOUNTED FLOOD LIGHT

(REPLACE) WALL PACKS LOCATED ON LEVEL 1 FOR REFERENCE SEE FIG. WP-9, SHEET E-5.12

(REMOVE) STEP LIGHTS

(REPLACE) WALL PACK LOCATED ON LEVEL 1

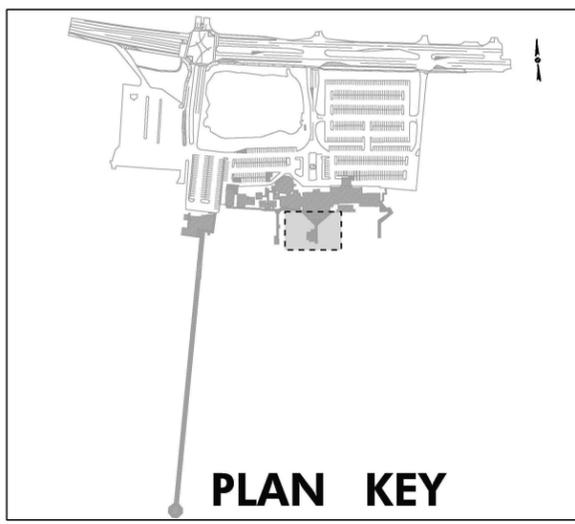
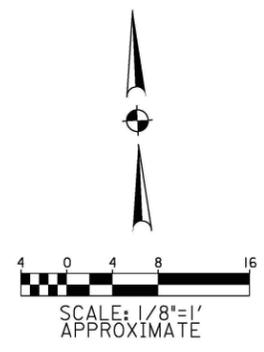
(REMOVE) STEP LIGHT FOR REFERENCE SEE FIG. WP-11, SHEET E-5.12

(REPLACE) STEP LIGHTS FOR REFERENCE SEE FIG. WP-11, SHEET E-5.12

(REPLACE) WALL PACKS LOCATED ON LEVEL 1 FOR REFERENCE SEE FIG. WP-11, SHEET E-5.12

(REMOVE) RAIL LIGHTS FOR REFERENCE SEE FIG. WP-10, SHEET E-5.12 (TYP. 4)

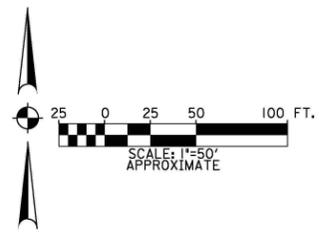
(REMOVE) RAIL LIGHTS FOR REFERENCE SEE FIG. WP-11, SHEET E-5.12 (TYP. 8)



Plot: S:\s\18-000000\01-000000.dwg
19-DEC-2018 2:01:10

User: is...
Project: 753600 Turtle Lighting Retrofit

Project: 753600 Turtle Lighting Retrofit
Assembly: E-5.4_WP_DEMO_PLAN.dwg



NO.	DATE	DESCRIPTION	REVISIONS



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
WAYSIDE PARK LIGHTING PLAN

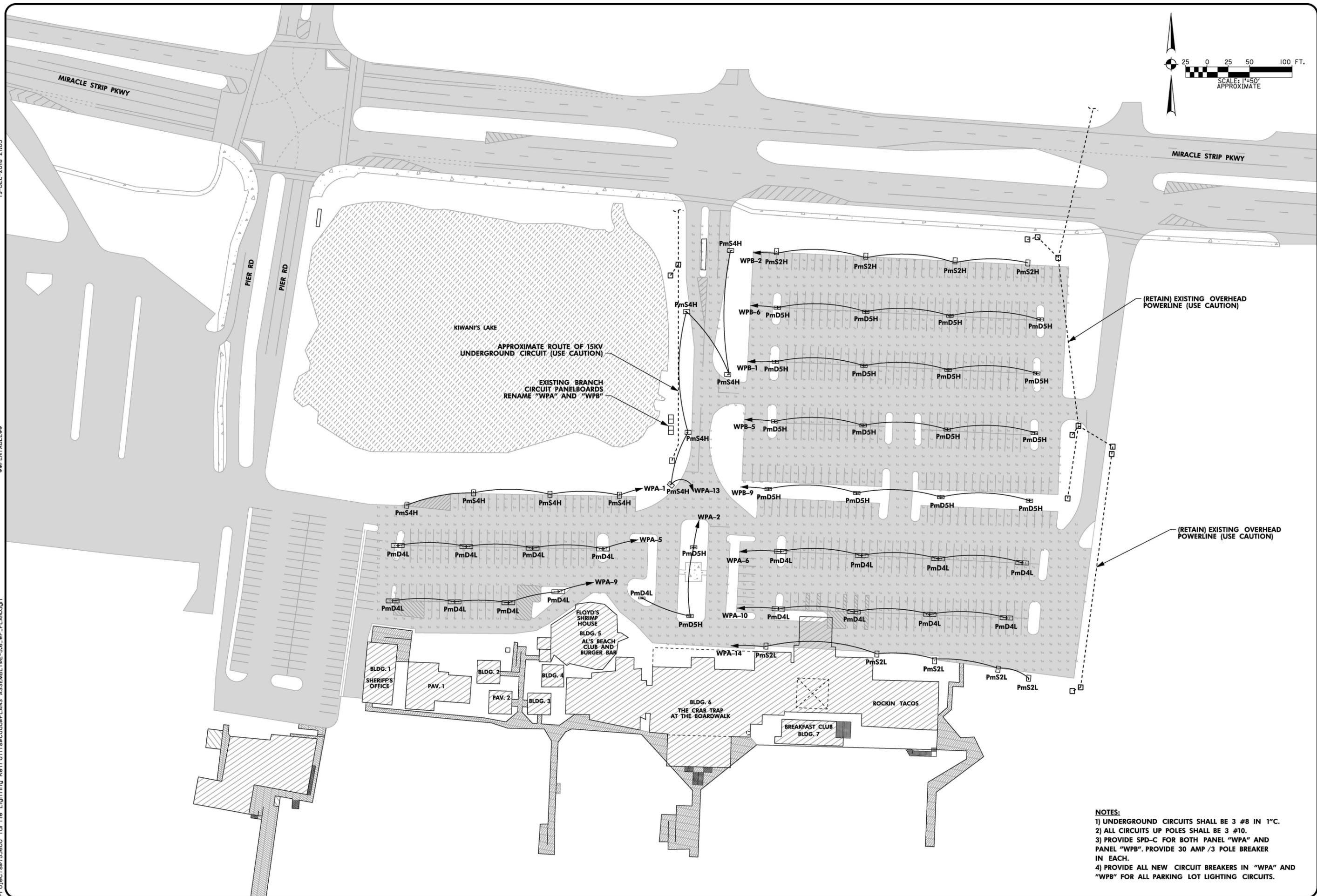
VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-5.6

User: Is: Ischertlfr
 Project: 753600 Turtle Lighting Retrofits@Plans Assembly@E-5.6_WP_PLAN.dgn
 Plot: S:\s\753600\00000001.dwg
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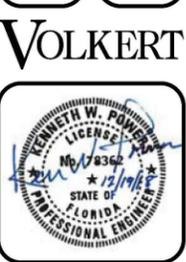
- NOTES:**
- 1) UNDERGROUND CIRCUITS SHALL BE 3 #8 IN 1" C.
 - 2) ALL CIRCUITS UP POLES SHALL BE 3 #10.
 - 3) PROVIDE SPD-C FOR BOTH PANEL "WPA" AND PANEL "WPB". PROVIDE 30 AMP / 3 POLE BREAKER IN EACH.
 - 4) PROVIDE ALL NEW CIRCUIT BREAKERS IN "WPA" AND "WPB" FOR ALL PARKING LOT LIGHTING CIRCUITS.

NO.	DATE	DESCRIPTION	BY



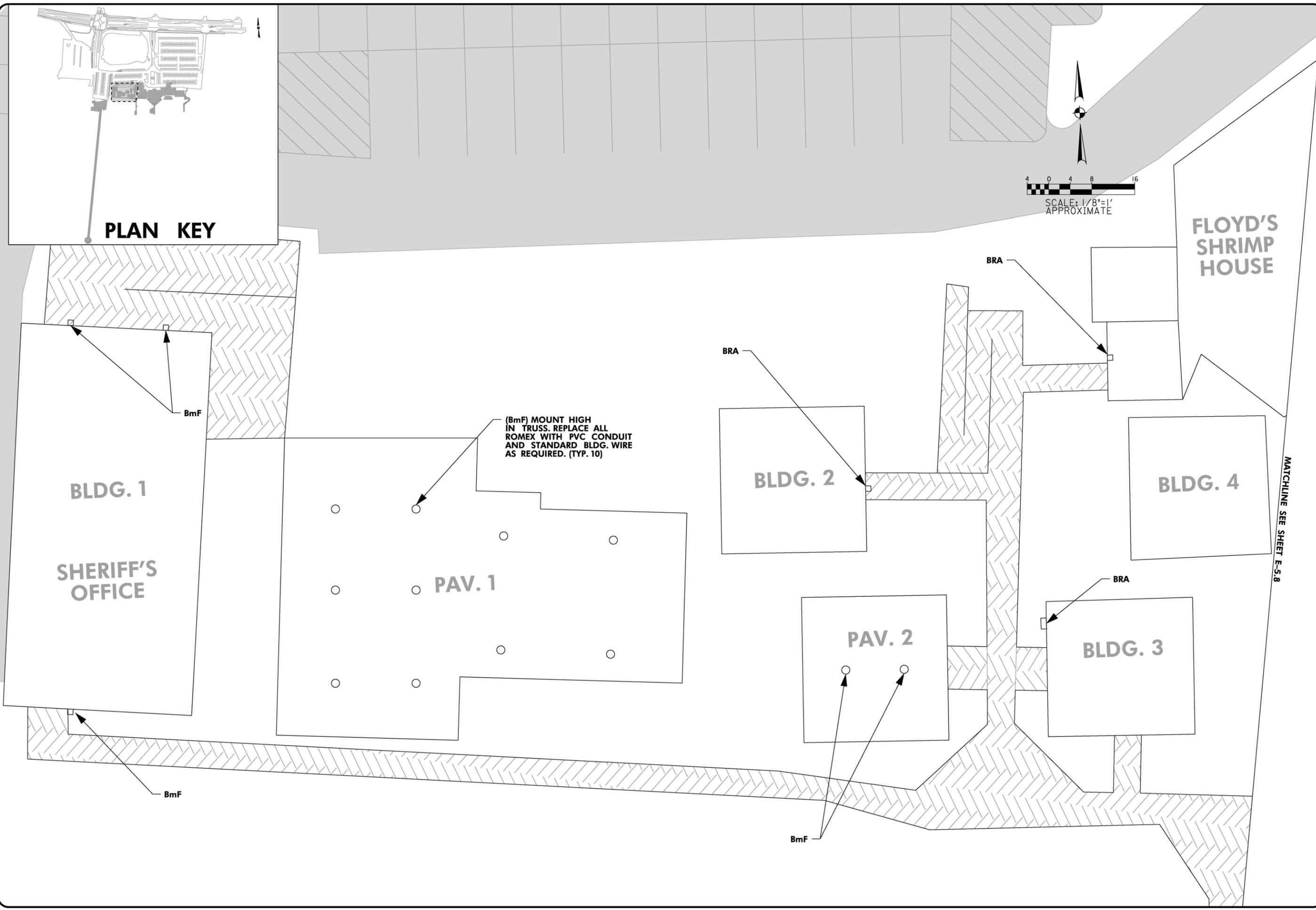
PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
WAYSIDE PARK LIGHTING PLAN



DESIGNED: JB CHECKED: KP
DRAWN: JG CHECKED: JB
DATE: 12/19/18
PROJECT NO.: 753600
DRAWING NO.:

E-5.7



Plot: S:\s\753600\001\000000.dwg
19-DEC-2018 21:05

Plot: S:\s\753600\001\000000.dwg
19-DEC-2018 21:05

User: is...
Project: 753600
Title: Lighting Retrofit
Assemblies: E-5.7_WP_PLAN.dwg

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
WAYSIDE PARK LIGHTING PLAN

VOLKERT

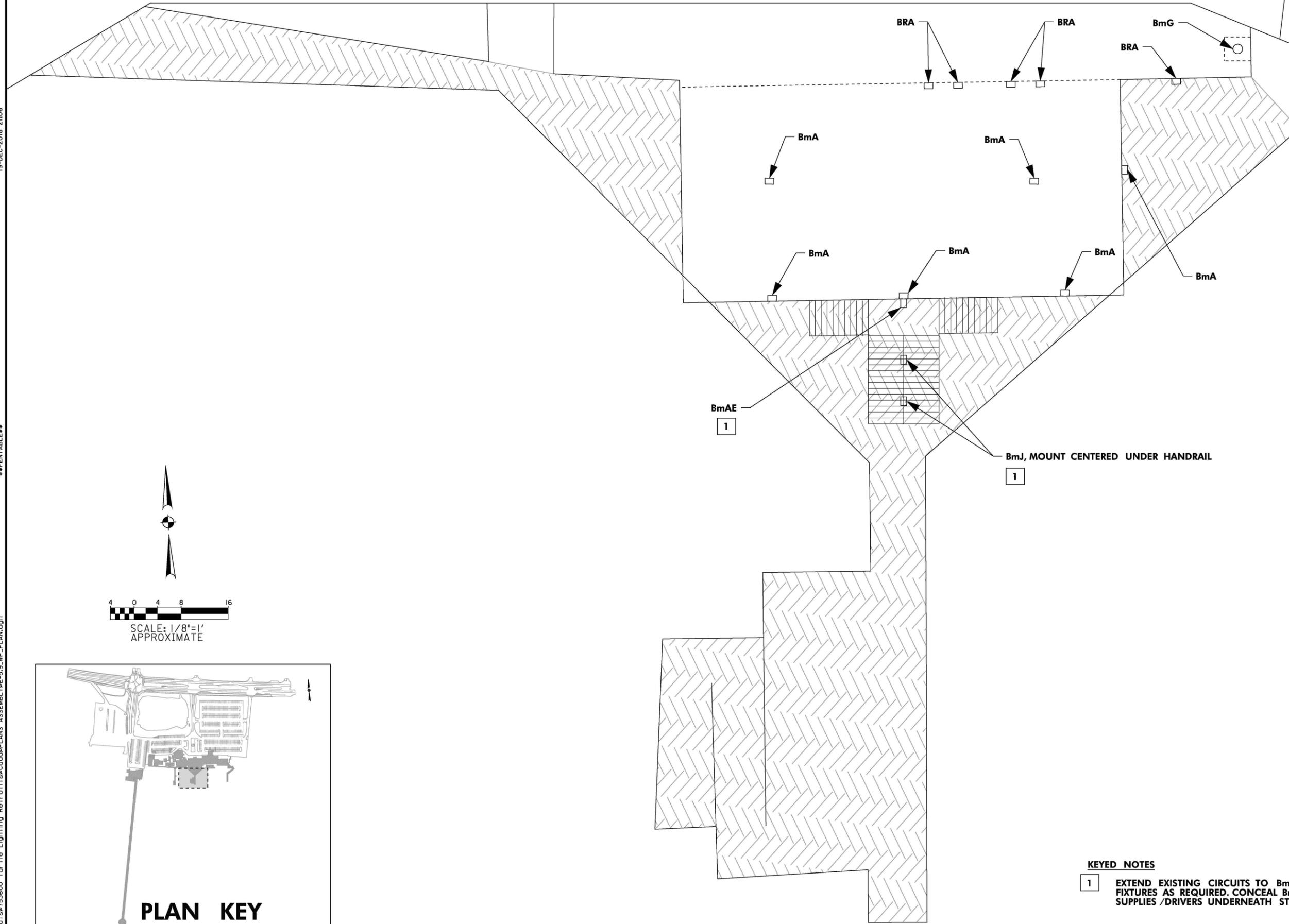


DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

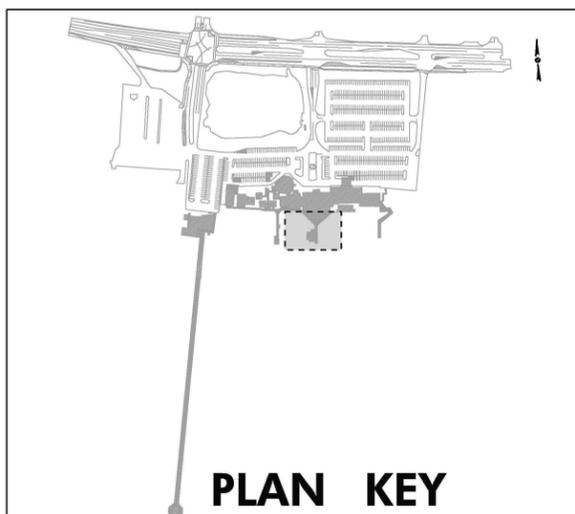
E-5.9

MATCHLINE SEE SHEET E-5.8

MATCHLINE SEE SHEET E-5.10



SCALE: 1/8"=1'
APPROXIMATE



KEYED NOTES

- 1** EXTEND EXISTING CIRCUITS TO BmAE AND BmJ
FIXTURES AS REQUIRED. CONCEAL BmJ POWER
SUPPLIES /DRIVERS UNDERNEATH STAIRS OUT OF SIGHT.

19-DEC-2018 2:06

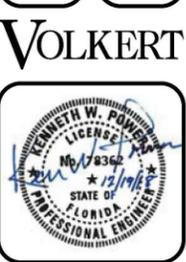
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User: Is: Ischertliff\j...
Project: 753600 Turtle Lighting Retrofits\Cadd\PLANS ASSEMBLY\E-5.9_WP_PLAN.dgn

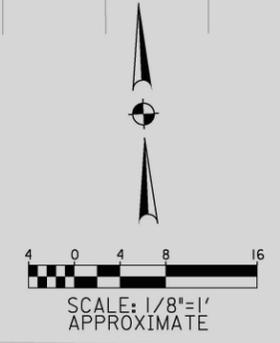
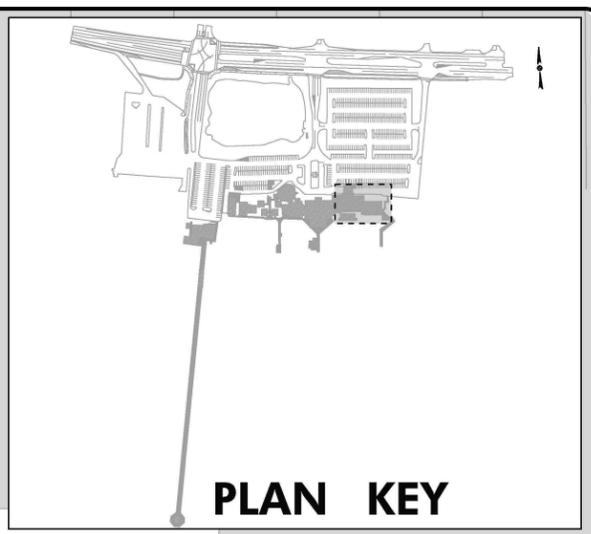
NO.	DATE	DESCRIPTION	BY



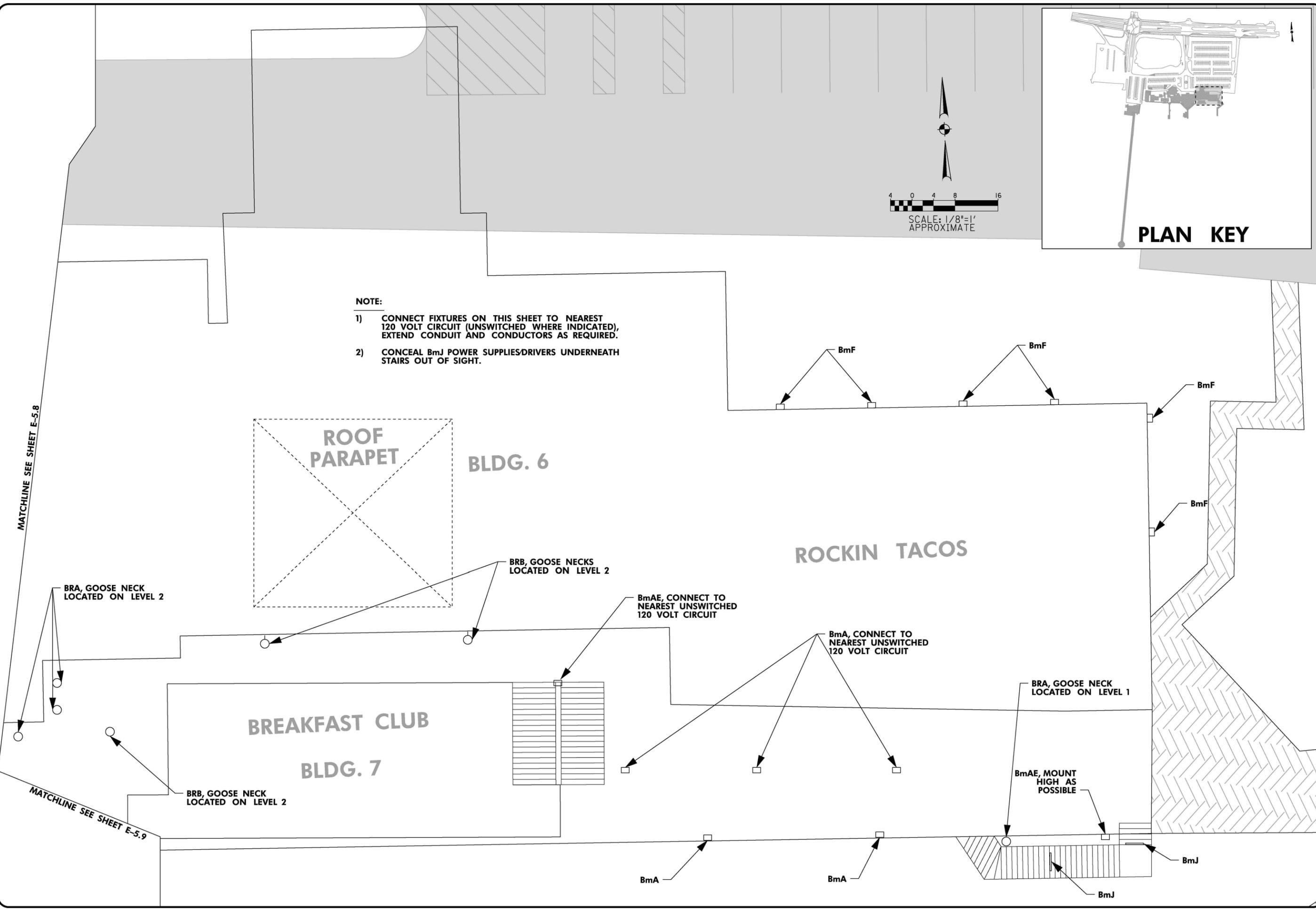
PROJECT NAME: TURTLE LIGHTING RETROFIT
 SHEET NAME: WAYSIDE PARK LIGHTING PLAN



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.: E-5.10	



- NOTE:**
- CONNECT FIXTURES ON THIS SHEET TO NEAREST 120 VOLT CIRCUIT (UNSWITCHED WHERE INDICATED), EXTEND CONDUIT AND CONDUCTORS AS REQUIRED.
 - CONCEAL BmJ POWER SUPPLIES/DRIVERS UNDERNEATH STAIRS OUT OF SIGHT.



User: Is: Ischertliffm
 Project: 753600 Turtle Lighting Retrofits
 Plans Assembly: E-5.10.WP_PLAN.dgn
 Plot: Scales: 8,0000000;1,000000
 \$PENTABLE\$
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FIG. WP-1

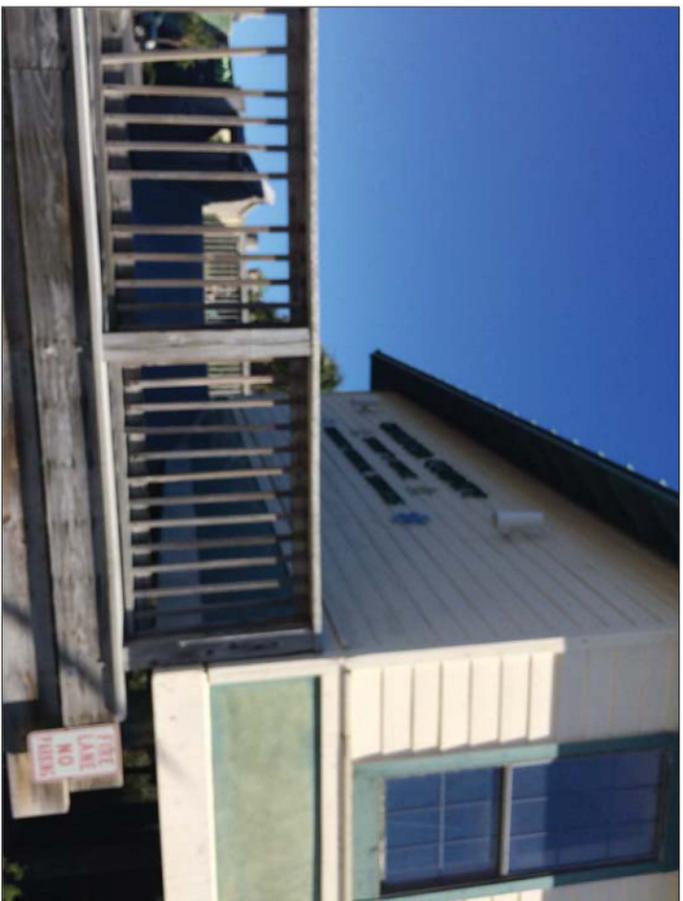


FIG. WP-2

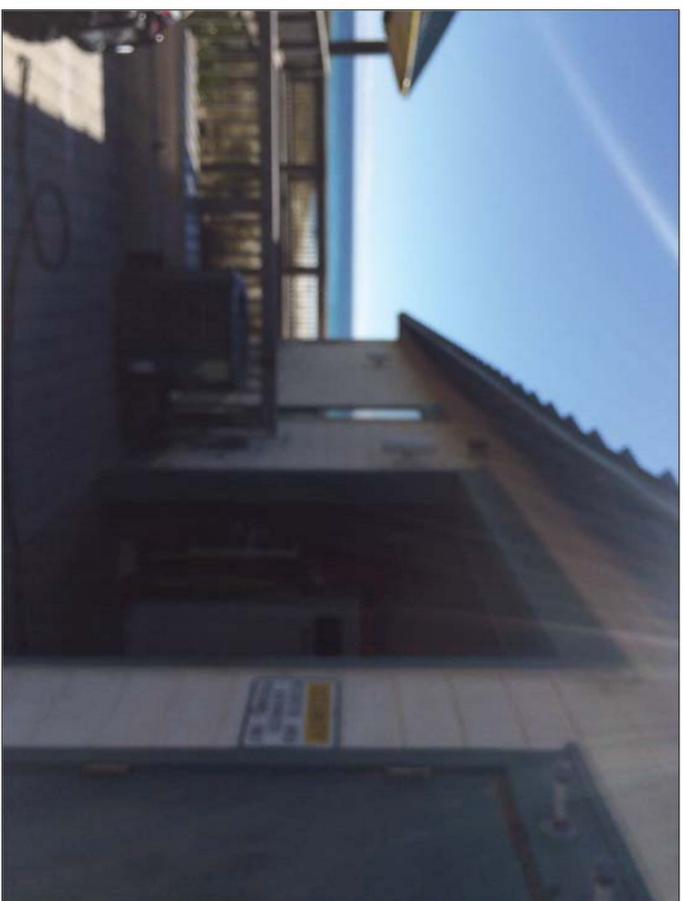


FIG. WP-3

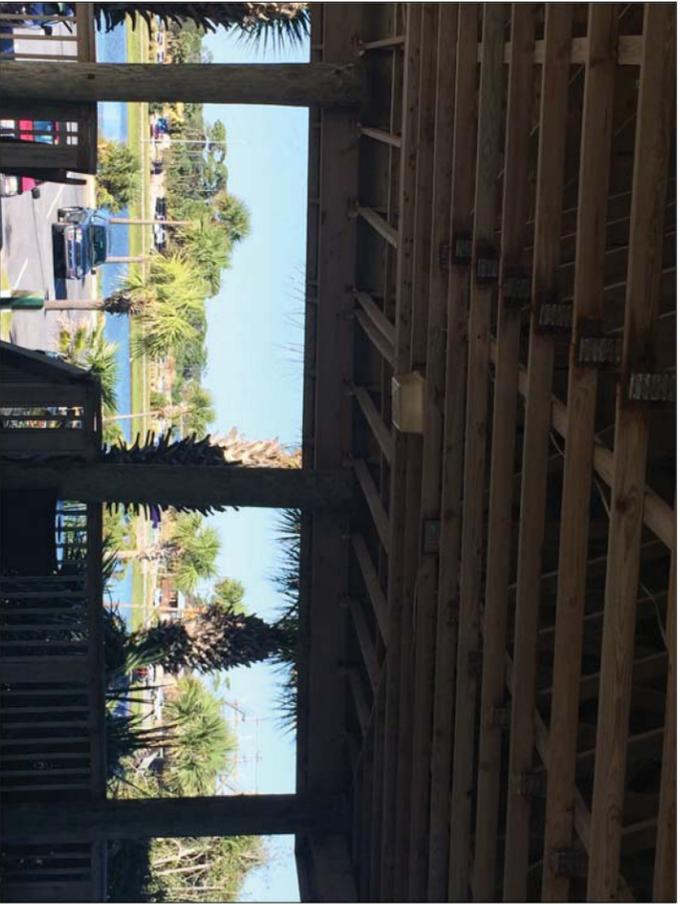


FIG. WP-4



FIG. WP-5

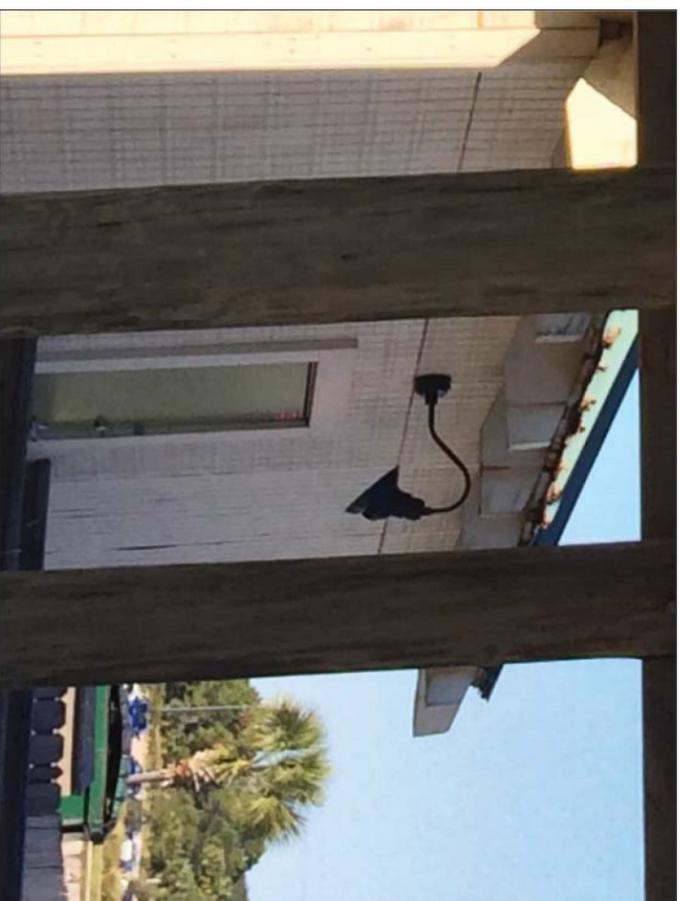


FIG. WP-6

PROJECT NO.:
 753600
 DRAWING NO.:
39 OF 65

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
WAYSIDE PARK PHOTO REFERENCE DETAILS

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.: E-5.11	

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
**WAYSIDE PARK
PHOTO REFERENCE DETAILS**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-5.12



FIG. WP-7

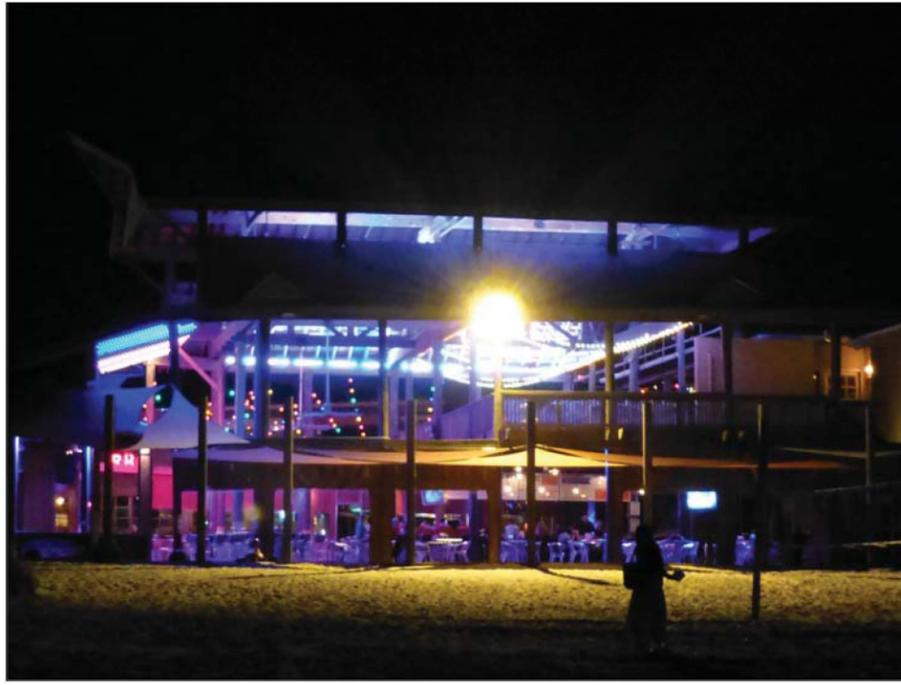


FIG. WP-8



FIG. WP-9



FIG. WP-10



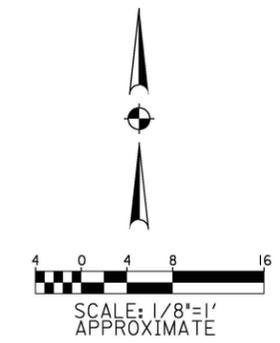
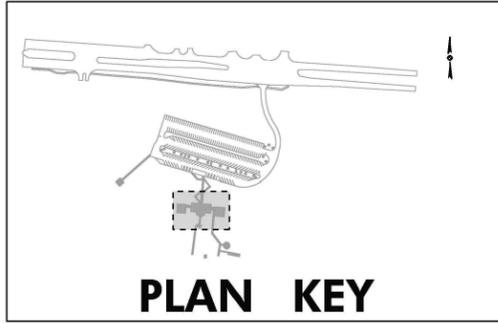
FIG. WP-11



FIG. WP-12

Plot_Sets_L_00000001_000000
 \$PENTABLE\$
 19-DEC-2018 2:01

User: Is: Ischertlfr
 Project: 753600 Turtle Lighting Retrofit
 Plans Assembly: E-5.12_WP_DETAILS.dgn



(REPLACE) SURFACE MOUNTED FOR REFERENCE SEE FIG. JBP-1, SHEET E-6.5

(REMOVE) REPLACE WITH WALL PACK FROM EAST WALL FOR REFERENCE SEE FIG. JBP-5, SHEET E-6.5

(REPLACE) WALL MOUNTED FOR REFERENCE SEE FIG. JBP-2, SHEET E-6.5

(REMOVE) FOR REFERENCE SEE FIG. JBP-6, SHEET E-6.5 (TYP.)

(REMOVE) REPLACE WITH WALL PACK FROM EAST WALL

(REPLACE) WALL PACK

(REPLACE) WALL MOUNTED

(RELOCATE) WALL PACK

(REPLACE) SURFACE MOUNTED FOR REFERENCE SEE FIG. JBP-1, SHEET E-6.5

(REMOVE) SURFACE MOUNTED

(REMOVE) SURFACE MOUNTED

(REPLACE) WALL MOUNTED FOR REFERENCE SEE FIG. JBP-3, SHEET E-6.5

(REPLACE) WALL MOUNTED FOR REFERENCE SEE FIG. JBP-3, SHEET E-6.5

(REPLACE) WALL PACK

(RELOCATE) WALL PACK

(REPLACE) WALL MOUNTED

(REPLACE) WALL MOUNTED

(REPLACE) SURFACE MOUNTED FOR REFERENCE SEE FIG. JBP-1, SHEET E-6.5

(REPLACE)

(REPLACE) RESTROOM LIGHTS FOR REFERENCE SEE FIG. JBP-9, SHEET E-6.6

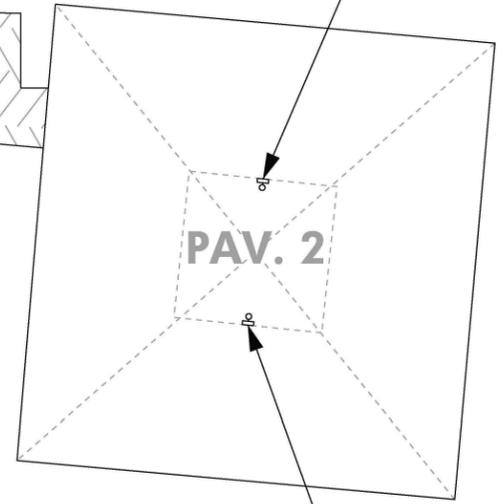
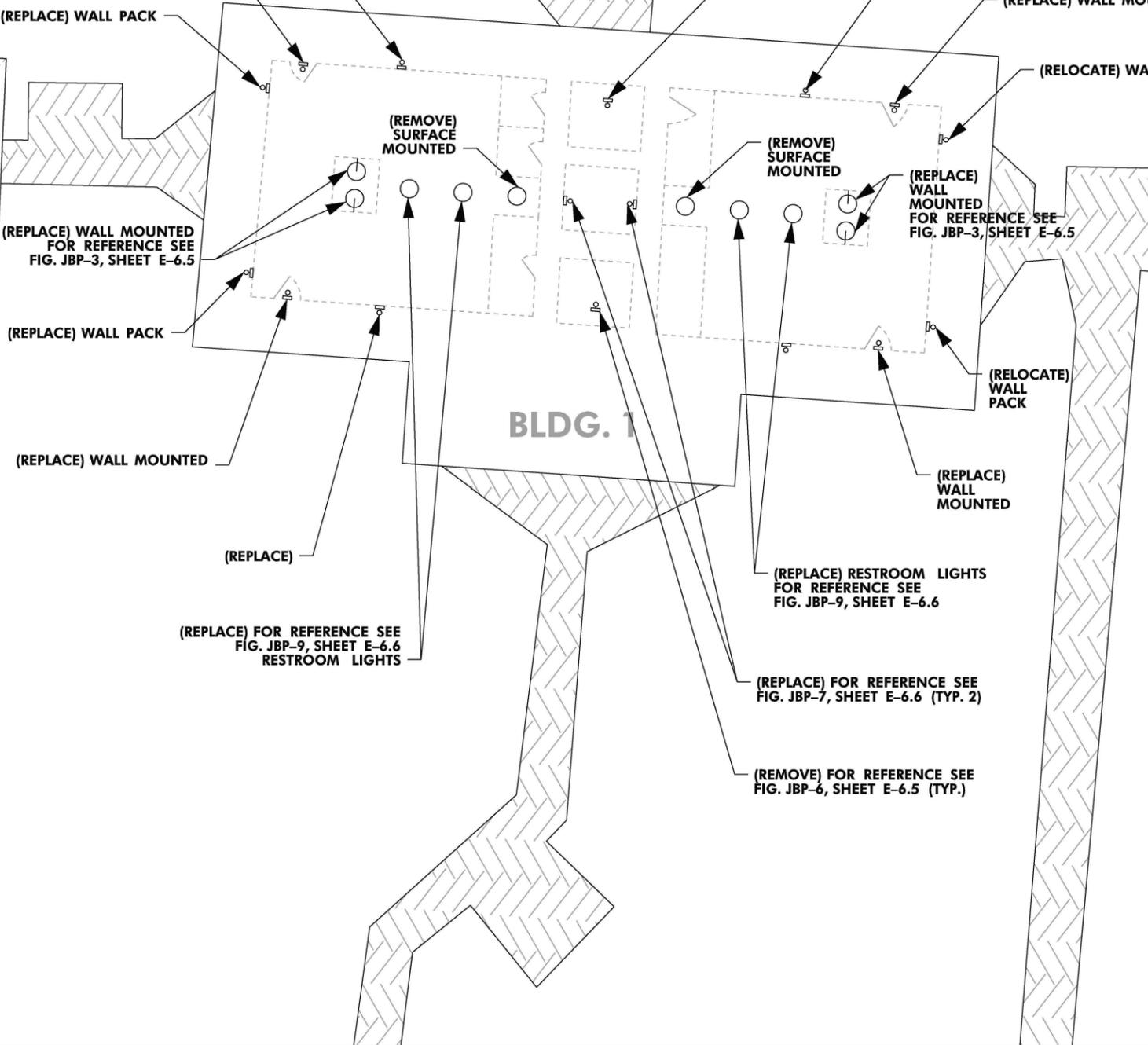
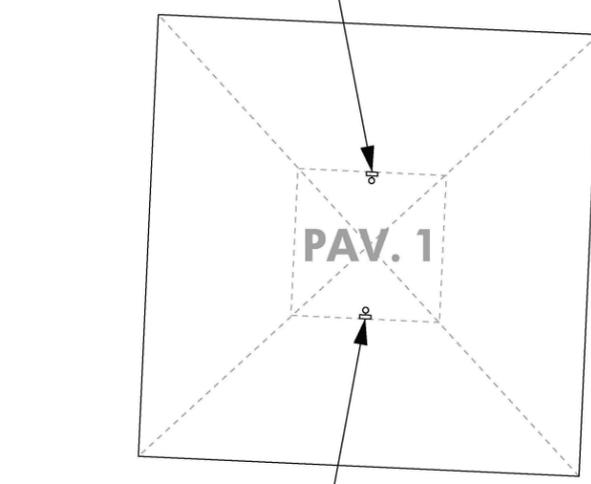
(REPLACE) FOR REFERENCE SEE FIG. JBP-9, SHEET E-6.6 RESTROOM LIGHTS

(REPLACE) FOR REFERENCE SEE FIG. JBP-7, SHEET E-6.6 (TYP. 2)

(REMOVE) FOR REFERENCE SEE FIG. JBP-6, SHEET E-6.5 (TYP.)

(REPLACE) SURFACE MOUNTED FOR REFERENCE SEE FIG. JBP-1, SHEET E-6.5

SEE SHEET E-6.1



PROJECT NO.:
753600

DRAWING NO.:
45 OF 65

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
JOHN BEASLEY PARK DEMOLITION PLAN

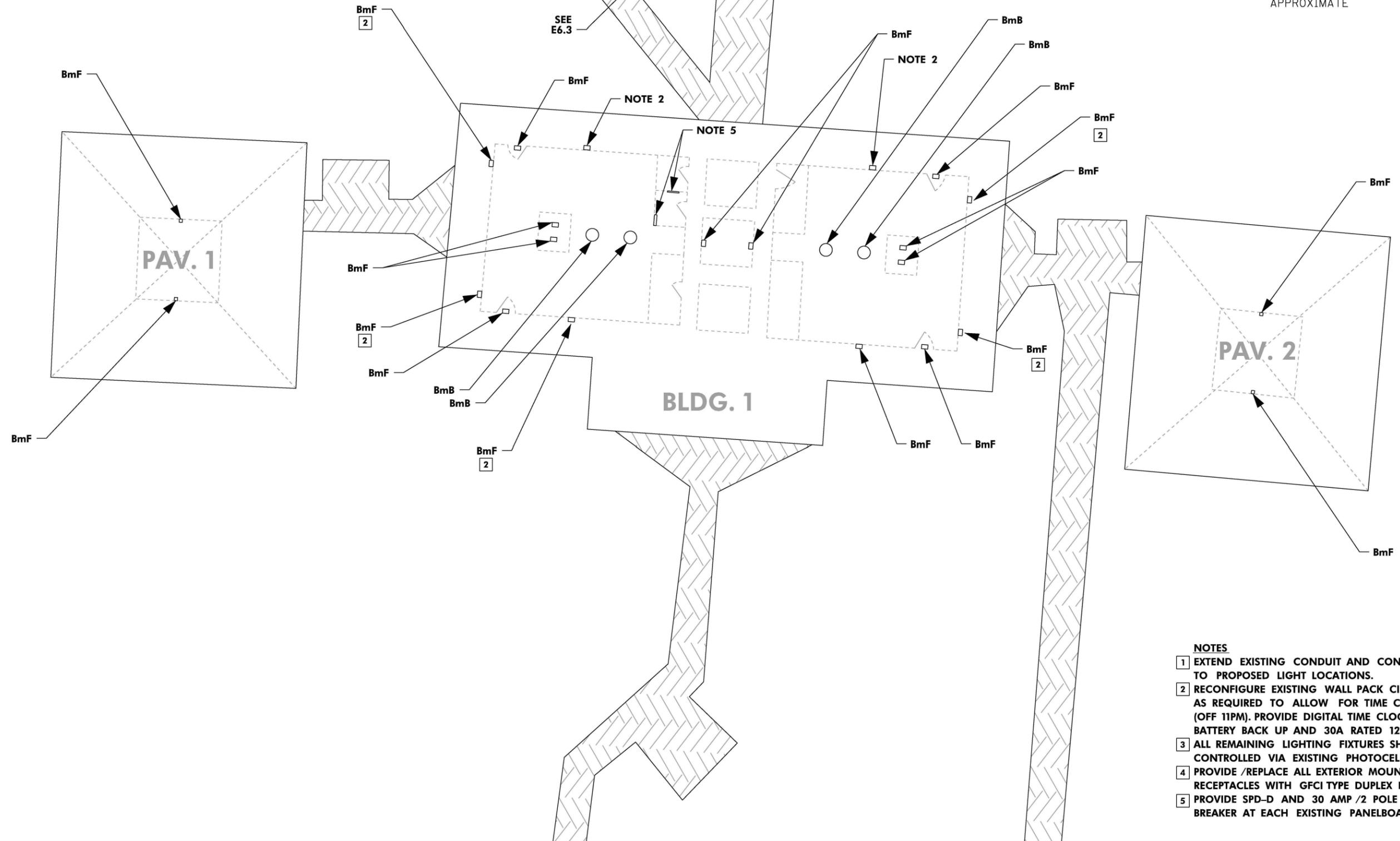
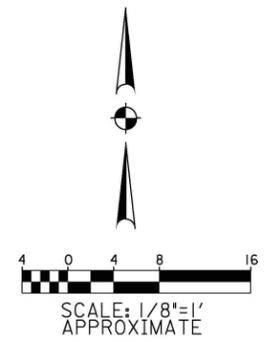
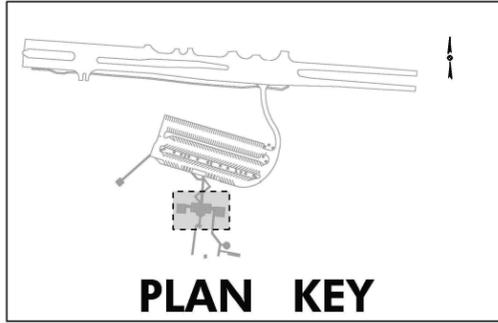
VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-6.2

User: Is: Ischert1@fr
 Project: 753600 Turtle Lighting Retrofit@Code@PLANS ASSEMBLY@E-6.2_JBP_DEMO_PLAN.dgn
 Plot: S:\s\753600\001\000000.dwg
 \$PENTABLE\$



- NOTES**
- 1 EXTEND EXISTING CONDUIT AND CONDUCTORS TO PROPOSED LIGHT LOCATIONS.
 - 2 RECONFIGURE EXISTING WALL PACK CIRCUITS AS REQUIRED TO ALLOW FOR TIME CLOCK CONTROL (OFF 11PM). PROVIDE DIGITAL TIME CLOCK WITH BATTERY BACK UP AND 30A RATED 120V CONTACTORS
 - 3 ALL REMAINING LIGHTING FIXTURES SHALL BE CONTROLLED VIA EXISTING PHOTOCELL CONTROL
 - 4 PROVIDE /REPLACE ALL EXTERIOR MOUNTED DUPLEX RECEPTACLES WITH GFCI TYPE DUPLEX RECEPTACLES
 - 5 PROVIDE SPD-D AND 30 AMP /2 POLE CIRCUIT BREAKER AT EACH EXISTING PANELBOARD

PROJECT NO.:
753600

DRAWING NO.:
47 OF 65

NO.	DATE	DESCRIPTION	REVISIONS	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
JOHN BEASLEY PARK LIGHTING PLAN

VOLKERT



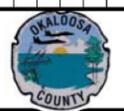
DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-6.4

Plot: S:\s\18_00000001_000000
 \$PENTABLE\$
 19-DEC-2018 21:03

User: Is: Ischert1\fr
 Project: 753600 Turtle Lighting Retrofits\Cadd\PLANS ASSEMBLY\E-6.4_JBP_PLAN.dgn

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
**JOHN BEASLEY PARK
PHOTO REFERENCE DETAILS**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-6.5



FIG. JBP-1

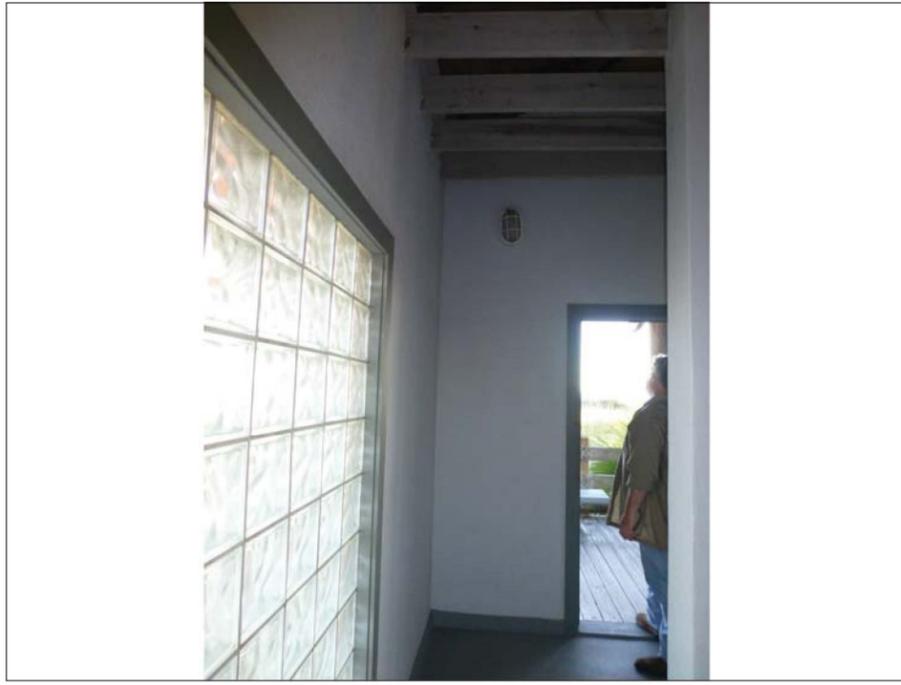


FIG. JBP-2



FIG. JBP-3



FIG. JBP-4



FIG. JBP-5



FIG. JBP-6

Plot: S:\s1s\1_00000001_0000000
 \$PENTABLE\$

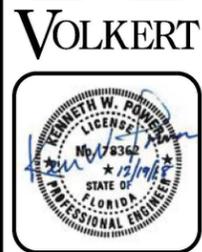
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 Project: 753600 Turtle Lighting Retrofit\Code\PLANS ASSEMBLY\E-6.5_JBP_DETAILS.dgn

NO.	DATE	DESCRIPTION	REVISIONS	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
**JOHN BEASLEY PARK
PHOTO REFERENCE DETAILS**



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-6.6



FIG. JBP-7



FIG. JBP-8



FIG. JBP-9



FIG. JBP-10



FIG. JBP-11



FIG. JBP-12

Plt: 5615e1_00000001_000000
 \$PENTABLE\$
 19-DEC-2018 2:02

User: Is: Ischertliff
 Project: 753600 Turtle Lighting Retrofit
 Plans: ASSEMBLY/E-6.6_JBP_DETAILS.dgn

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

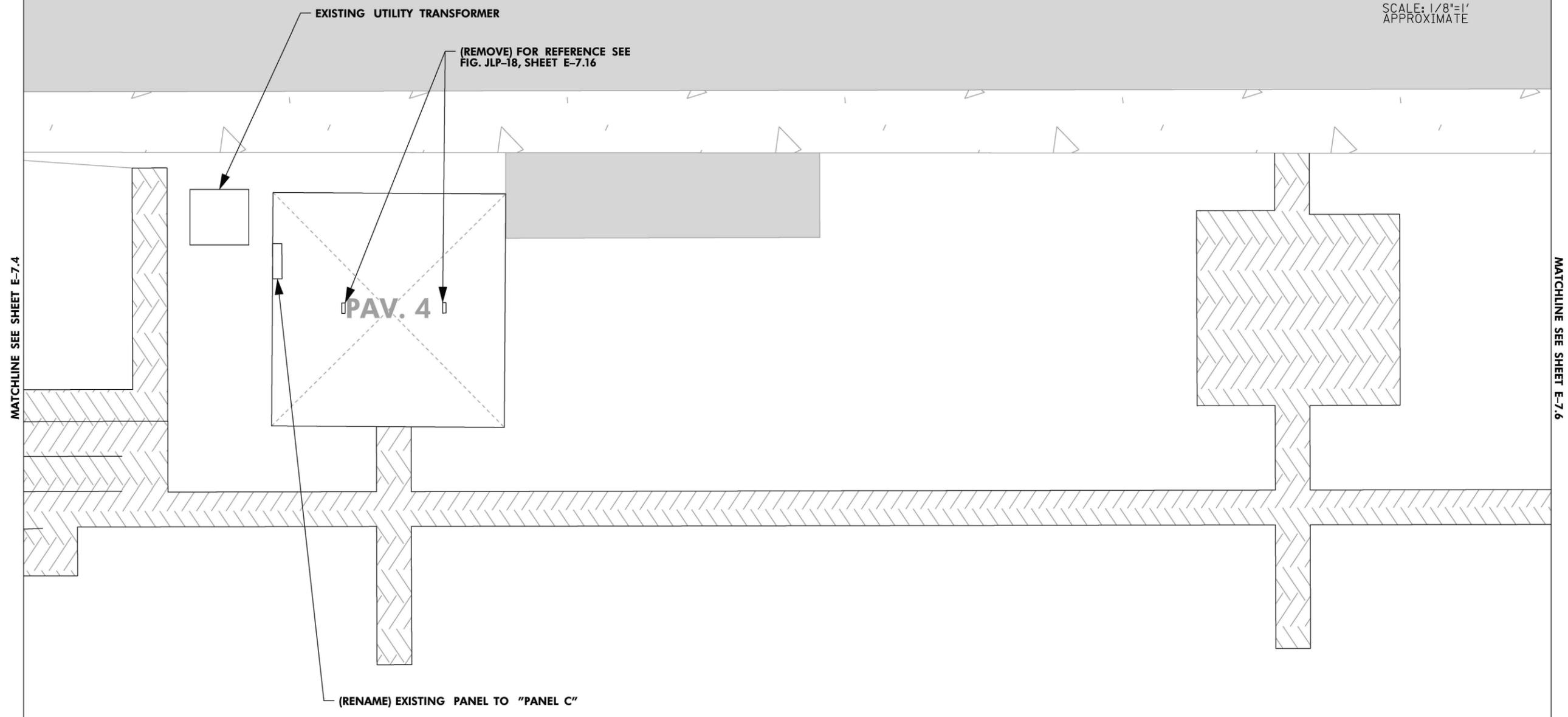
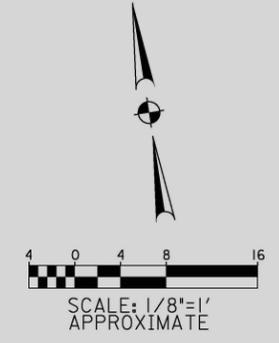
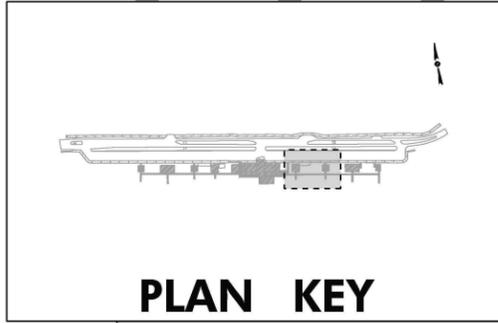
SHEET NAME:
**JAMES LEE PARK
DEMOLITION PLANS**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-7.5



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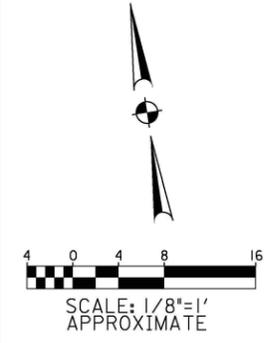
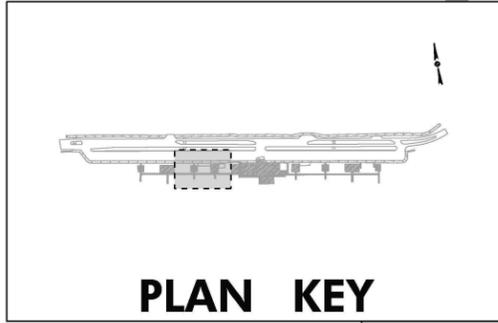
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Project: 753600 Turtle Lighting Retrofit
Retrofits\Cadd\PLANS ASSEMBLY\E-7.5_JLP_DEMO_PLAN.dwg

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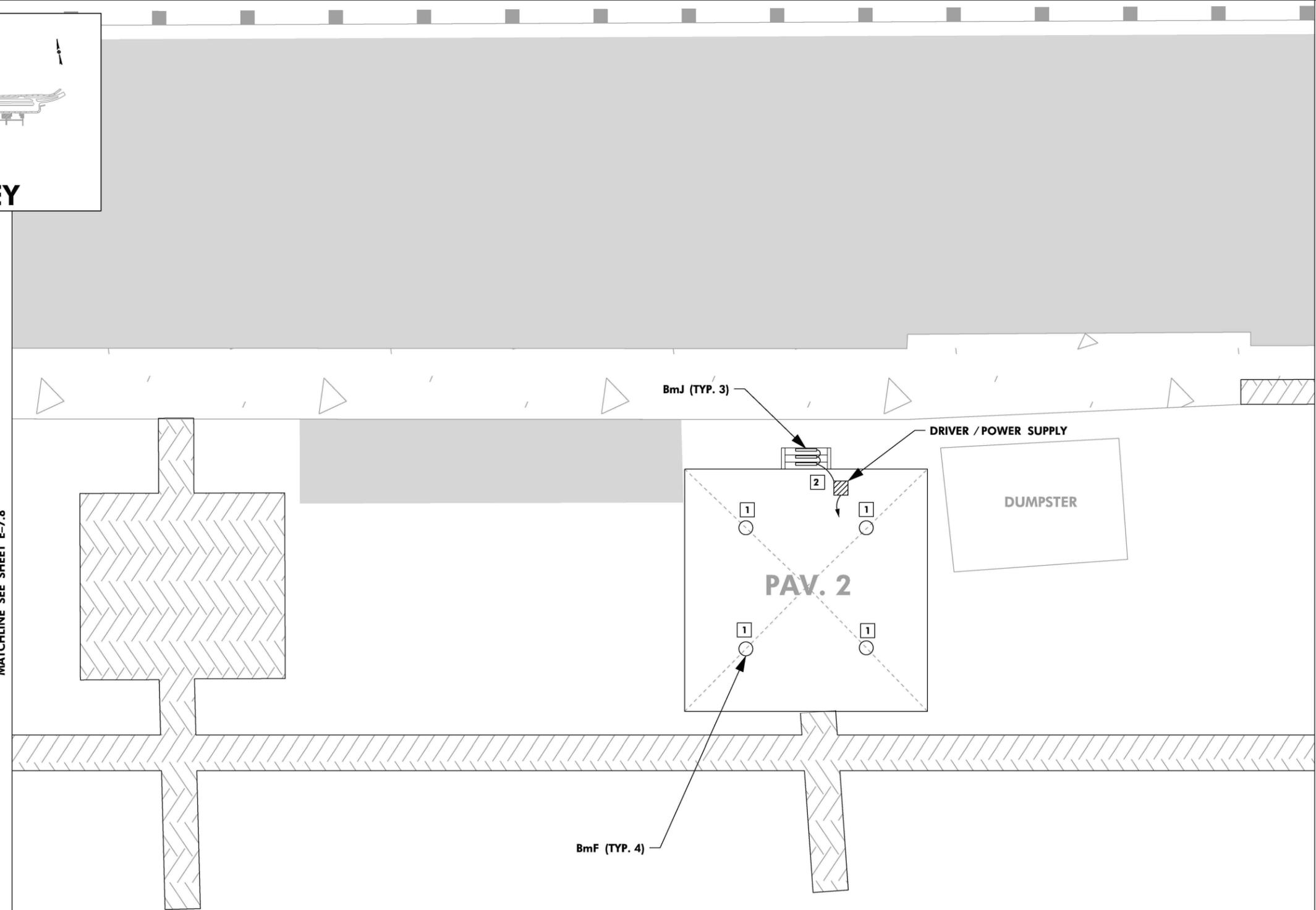
19-DEC-2018 21:03

Project: 753600 Turtle Lighting Retrofits



MATCHLINE SEE SHEET E-7.8

MATCHLINE SEE SHEET E-7.10



- KEYED NOTES**
- 1** EXTEND EXISTING CONDUIT AND CONDUCTORS TO PROPOSED LIGHT FIXTURE LOCATIONS WITH 3 # 12 IN 1/2" C
 - 2** MOUNT BmJ LIGHTS UNDER STAIRS AS INDICATED. POWER SUPPLY /DRIVER SHALL BE MOUNTED TO STRUCTURE UNDERNEATH PAVILION FLOORING. CONNECT TO NEAREST EXISTING 120V PHOTOCELL CIRCUIT, 3 # 12 IN 1/2" C.

PROJECT NO.: 753600

DRAWING NO.: 58 OF 65

NO.	DATE	DESCRIPTION	BY



PROJECT NAME: **TURTLE LIGHTING RETROFIT**

SHEET NAME: **JAMES LEE PARK LIGHTING PLAN**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-7.9

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

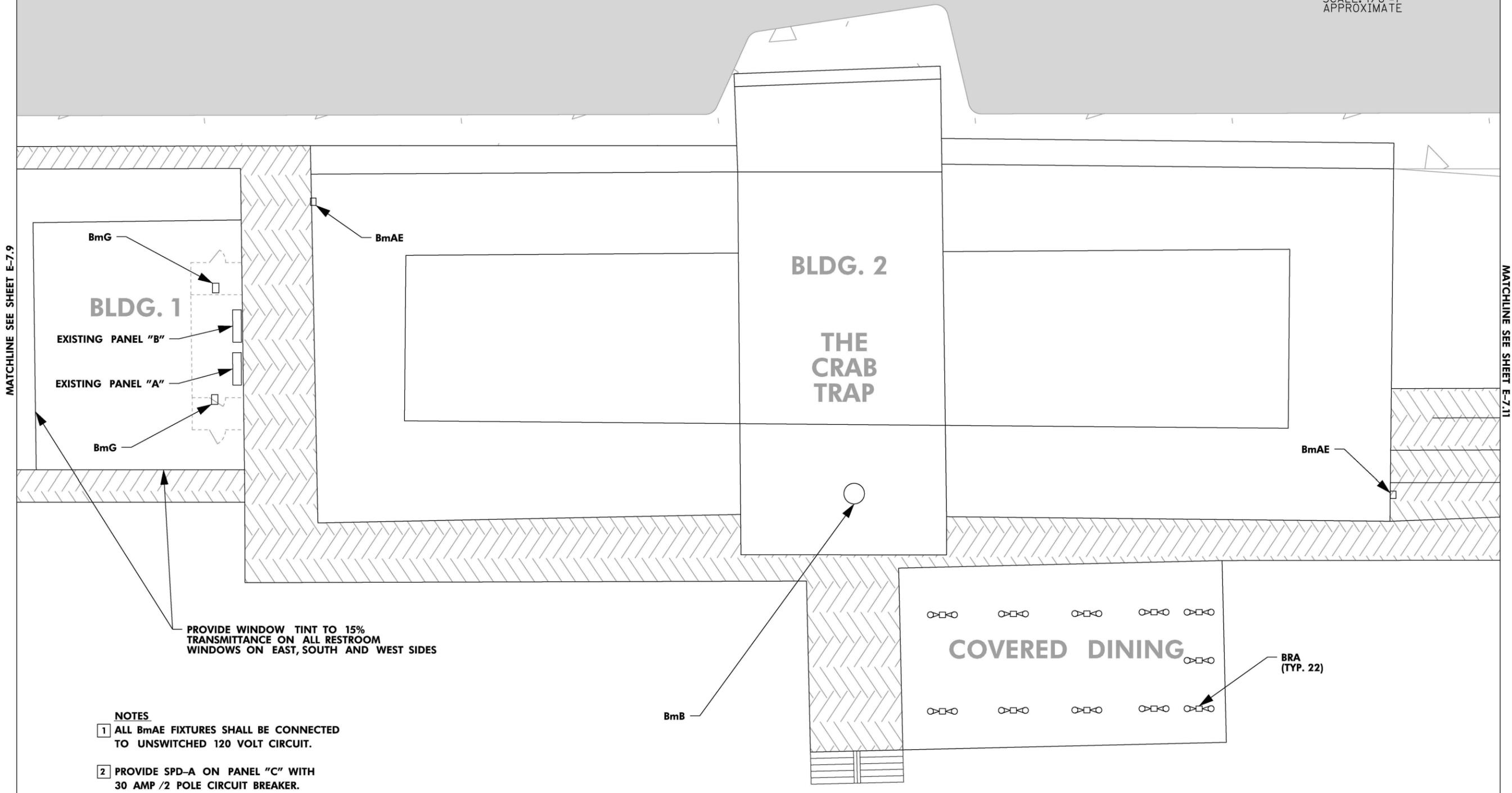
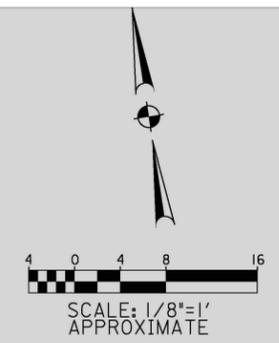
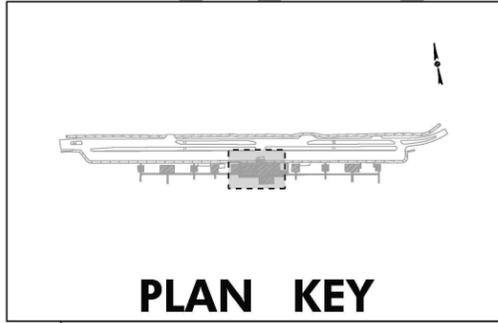
SHEET NAME:
JAMES LEE PARK LIGHTING PLAN

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-7.10



PROVIDE WINDOW TINT TO 15% TRANSMITTANCE ON ALL RESTROOM WINDOWS ON EAST, SOUTH AND WEST SIDES

NOTES

- 1 ALL BmAE FIXTURES SHALL BE CONNECTED TO UNSWITCHED 120 VOLT CIRCUIT.
- 2 PROVIDE SPD-A ON PANEL "C" WITH 30 AMP /2 POLE CIRCUIT BREAKER.
- 3 PROVIDE SPD-D ON PANELS "A" AND "B". REMOVE EXISTING SURGE UNITS. PROVIDE NEW 30 AMP /2 POLE CIRCUIT BREAKERS AS REQUIRED.

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 19-DEC-2018 2:03 PM

User: Is: Ischertliff, Project: 753600 Turtle Lighting Retrofits\Cadd\PLANS_ASSEMBLY\E-7.10_JLP_PLAN.dgn

NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

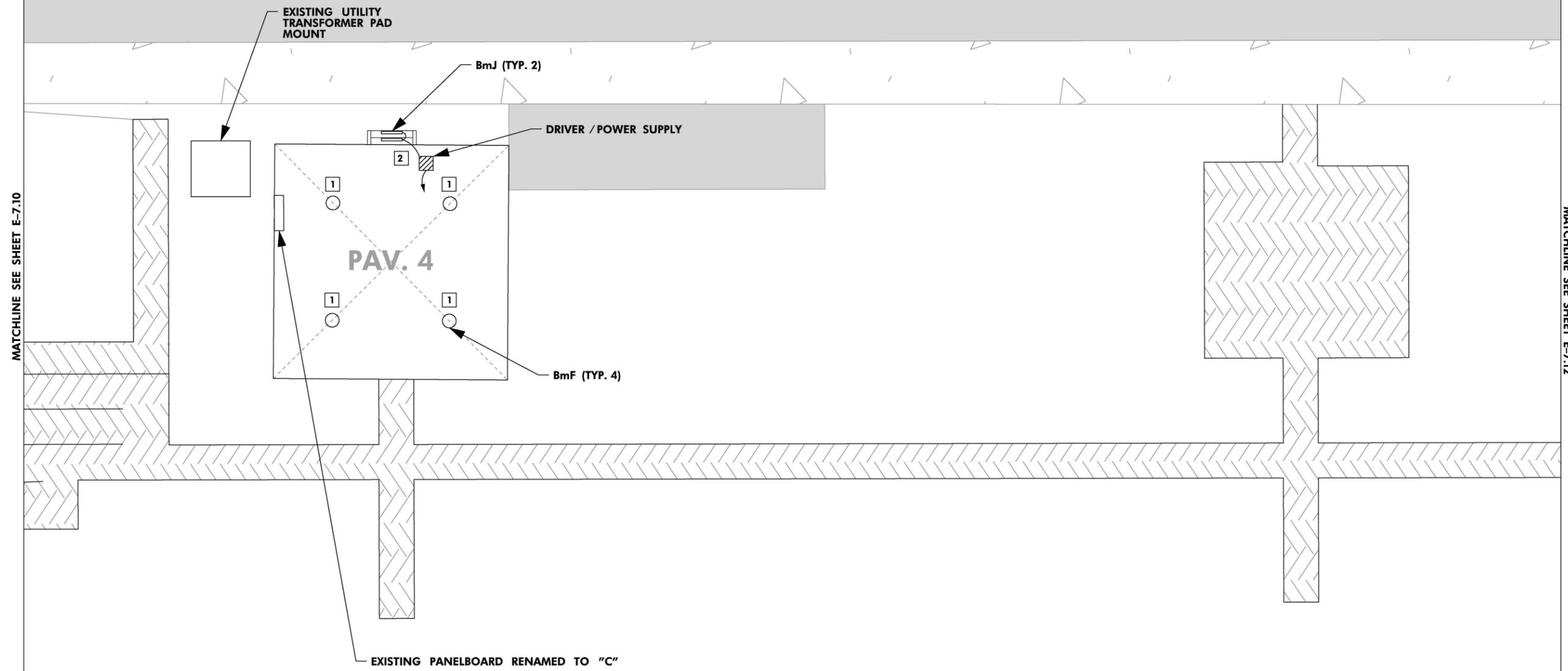
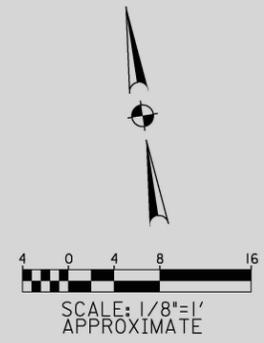
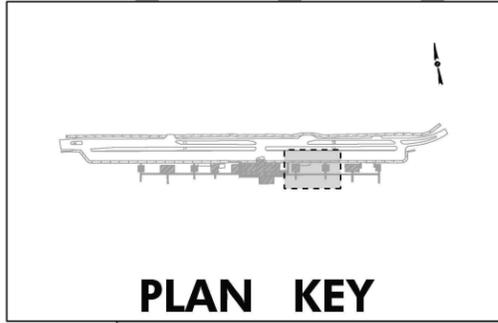
SHEET NAME:
JAMES LEE PARK LIGHTING PLAN

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.:	753600
DRAWING NO.:	

E-7.11



- KEYED NOTES**
- 1 EXTEND EXISTING CONDUIT AND CONDUCTORS TO PROPOSED LIGHT FIXTURE LOCATIONS WITH 3 # 12 IN 1/2" C
 - 2 MOUNT BmJ LIGHTS UNDER STAIRS AS INDICATED. POWER SUPPLY /DRIVER SHALL BE MOUNTED TO STRUCTURE UNDERNEATH PAVILION FLOORING. CONNECT TO NEAREST EXISTING 120V PHOTOCELL CIRCUIT, 3 # 12 IN 1/2" C.

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Plot: S:\s\8.00000001.000000
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Project: 753600 Turtle Lighting Retrofits
PLANS ASSEMBLY/E-7.11.dwg_PLAN.dwg

NO.	DATE	DESCRIPTION	REVISIONS	BY



PROJECT NAME: **TURTLE LIGHTING RETROFIT**
SHEET NAME: **JAMES LEE PARK PHOTO REFERENCE DETAILS**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-7.14



FIG. JLP-7



FIG. JLP-8



FIG. JLP-9



FIG. JLP-10



FIG. JLP-11



FIG. JLP-12

User: Is: Ischertliff
 Project: 753600 Turtle Lighting Retrofits
 Plans Assembly: E-7.14_JLP_Details.dgn
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NO.	DATE	DESCRIPTION	BY



PROJECT NAME:
TURTLE LIGHTING RETROFIT

SHEET NAME:
**JAMES LEE PARK
PHOTO REFERENCE DETAILS**

VOLKERT



DESIGNED: JB	CHECKED: KP
DRAWN: JG	CHECKED: JB
DATE: 12/19/18	
PROJECT NO.: 753600	
DRAWING NO.:	

E-7.15



FIG. JLP-13



FIG. JLP-14



FIG. JLP-15



FIG. JLP-16



FIG. JLP-17



FIG. JLP-18

User: Is: Ischertliff
 Project: 753600 Turtle Lighting Retrofit
 Plans Assembly: E-7.15_JLP_Details.dwg
 Plot: S:\s\753600\06\10000006\10000000.dwg
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WCTRS

L70
25 C

89,000 Hours

AmberLED Down Light Turbine LED Wall Cylinder



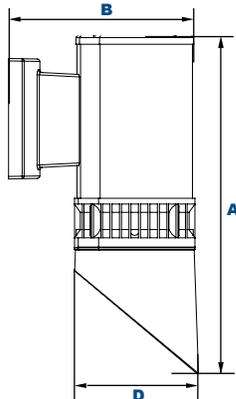
Shown with "VS" Visor



Shown with "A"
Medium Optic



Shown with "D"
Narrow Optic



Dimensions

Diameter (D)	5 1/4" (146mm)
Length (B)	8 5/8" (226mm)
Height (A)	16 1/4" (410mm)

The LEPG AmberLED WCTRS C³ Turbine Full Cut-off wall mount cylinder is available with a shielded IES Type V distribution, and is certified by the Florida Fish & Wildlife Conservation Commission (FWC) for wildlife applications that are directly visible from the shore requiring monochromatic AMBER light. LEDs operate between 585 and 595 nm, greater than 560nm required by FWC. Typical applications include retail centers, hotels, residential, parks, schools and universities, office buildings and medical facilities. Mounting heights of up to 12 feet can be used based on light level and uniformity requirements.

Specifications and Features:

Housing:

Extruded Round Aluminum Housing with Built-in Heat Sinks. Includes Visor Required to Maintain FWC Certification.

Listing & Ratings:

CSA: Listed for Wet Locations, ANSI/UL 1598, 8750; IP66 Sealed LED Compartment.

Finish:

Textured Architectural Bronze or Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

Lens:

Tempered Clear Flat Glass Lens

Reflector:

Wide, Medium and Narrow Distributions

Mounting Options:

Mount Over a 4" Recessed Outlet Box.

COB LED:

Amber COB

Wattage:

COB 20w, System Input 21w; (100w HID Equivalent)

Driver:

Electronic Driver, 120-277V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 2kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

Controls:

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with LEPG Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

Warranty:

5-Year Warranty for -40°C to +50°C Environment.

See Page 2 for Projected Lumen Maintenance Table.

AmberLED



Certification #2018-001

Order Information Example:

WCTRSAC31X20UAMKZSPVS

WCTRS	C3	1X20	U	AM	VS			
Model	Optics	LED	Wattage	Driver	CCT	Color	Options	Shield
WCTRS= AmberLED Down Light Wall Cylinder	A=70° Reflector B=100° Reflector D=30° Reflector	C3=Amber COB	1X20=20w	U=120-277V	AM=Amber	Z=Bronze B=Black C=Custom (Consult Factory)	SF=Single Fuse DF=Double Fuse SP=Surge Protection PC1=Photocell, 120VAC PC3=Photocell, 120-277VAC BU=Battery Backup, 90 Minutes	VS=Visor

→ 'BmAE' where noted on plans

Project Information:

Project Name: _____ Fixture Type: _____

Complete Catalog #: _____ Date: _____

Comments: _____

Certification & Listings:



Specifications subject to change without notice. Rev. 110918

Accessories & Replacement Parts:



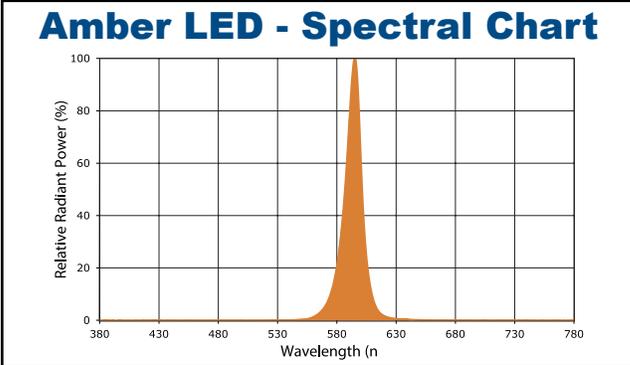
**P18100 &
P18103**

**Replacement Parts
(Order Separately, Field Installed)**

P18100	120VAC Photocell
P18103	120-277VAC Photocell

For Replacement Battery Backup, see the LEPEG LED Battery Backup Specification Sheet.

Photometric Data



Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Beam	
LED COB 20w	525	21	A	Medium
			B	Wide
			D	Narrow

Projected Lumen Maintenance

Data shown for 4100 CCT TM-21-11	Input Watts	Compare to MH				
		Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C
L70 Lumen Maintenance @ 25°C / 77°F	21	1.00	0.92	0.83	0.66	89,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C
L70 Lumen Maintenance @ 50°C / 122°F	21	1.00	0.90	0.81	0.62	78,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C
L80 Lumen Maintenance @ 40°C / 104°F	21	1.00	0.93	0.86	0.72	72,000

NOTES:

1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.

URBAN SERIES

URBAN(LED) TURTLE FRIENDLY

Cat.#

Job

Type



Approvals

SPECIFICATIONS

Intended Use:

The Beacon Urban luminaire is available with a choice of different LED wattage configurations, shapes, sizes and optical distributions designed to replace HID lighting up to 400W MH or HPS.

Construction:

- The drivers shall be located in the top cast housing and shall be accessible without tools by hinging the lower shade assembly. The driver and all electrical components shall be on a tray.
- The lower shade shall be made from a one-piece aluminum spinning.
- The housing is designed for LED thermal management without the use of metallic screens, cages, or fans. The top casting shall be able to be pendent mounted in place with a stainless steel safety pin and then permanently held in place with four stainless steel bolts.

Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV), or 347V or 480V input.
- Power factor is ≥ 0.90 at full load.
- Dimming drivers are standard with connections for external dimming equipment available upon request.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is listed by UL for use at 600VAC at 50°C or higher.
- Plug disconnects are listed by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components.
- Button photocell available.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20KA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131°F). Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

Controls/Options:

- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night visit:
www.beaconproducts.com/products/energeni
- Urban can be specified with SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit:
www.hubbelling.com/products/sitesync/ for more details

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Certifications:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- NRTL Certified, UL8750, UL 1598 and CSA22.2#250. 13-14 for wet locations
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission.

Warranty:

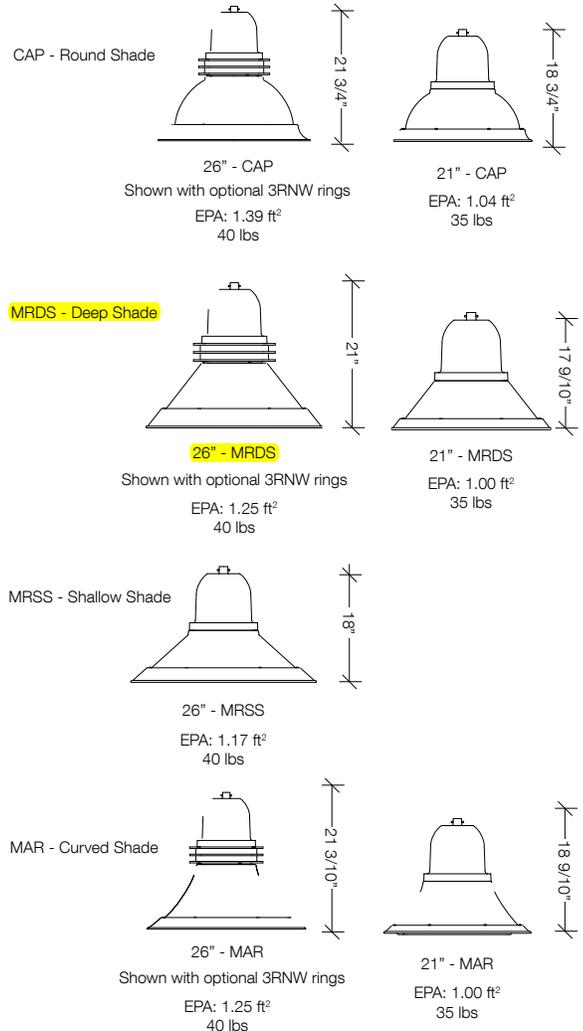
Five year limited warranty for more information visit:
www.hubbelling.com/resources/warranty

PRODUCT IMAGE(S)

Turtle Friendly



STYLES



CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928
Due to our continued efforts to improve our products, product specifications are subject to change without notice.
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ORDERING INFORMATION ORDERING EXAMPLE: URBCAP21/36E2-65/AMB/UNV/T4/RRNW/BBT

MODEL	SERIES	LED COLOR	VOLTAGE	ELECTRICAL OPTIONS	STYLE	FINISH
URB Urban	CAP-21 21" Capitol MRDS-21 21" Miramar deep shade MAR-21 21" Maritas CAP-26 26" Capitol MRSS-26 26" Miramar shallow shade MRDS-26 26" Miramar deep shade MAR-26 26" Maritas	AMB Amber 590 nm ENGINE-WATTS 24E2-45 45 Watts - LED array 36E2-65 65 Watts - LED array 48E2-85¹ 85 Watts - LED array 60E2-105¹ 105 Watts - LED array	UNV 120-277V 347V 347V 480V 480V	ELECTRICAL OPTIONS PEC-120 button, 120V PEC-208 button, 208V PEC-240 button, 240V PEC-277 button, 277V OPTICS² T1 type I T2 type II T3 type III T4 type IV T4BLC type IV, backlight control T5R type V, rectangular T5QM type V, square medium T5W type V, round wide	NRNW No rings 3RNW Three rings CONTROL OPTIONS GENI-XX³ energeni	BBT basic black textured BMT black matte textured WHT white textured MBT metallic bronze textured BZT bronze textured DBT dark bronze textured GYS gray smooth DPS dark platinum smooth GNT green textured MST metallic silver textured MTT metallic titanium textured OWI old world iron RAL _____

¹ 26" only
² To rotate optics Left or Right 90 degrees, specify L or R after the optical distribution example:T4L
³ When ordering Energeni, specify the routine setting code (Example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.





4760 WILDLIFE SERIES

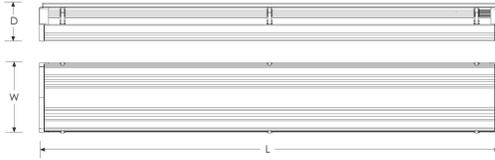
CEILING/PENDANT MOUNT LINEAR LED

CATALOG NUMBER	
NOTES	
TYPE	BmD, BmE

LED IP64 IP65

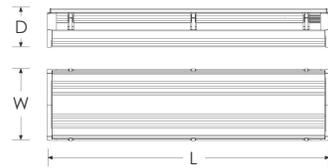
(4764) Specifications

EPA:	0.96 ft ² 0.089 m ²
L:	48" 1220 mm
W:	8" 203 mm
D:	4" 102 mm
Weight	22.6 lbs.



(4762) Specifications

EPA:	.45 ft ² 0.042 m ²
L:	24" 610 mm
W:	8" 203 mm
D:	4" 102 mm
Weight	12 lbs



DESCRIPTION

The Hydrel 4760 Wildlife Series LED Lighting Fixtures are down-ward directed luminaires, with full cut-off, suitable for garage and outdoor applications. These Wildlife-friendly luminaires are equipped with Amber LEDs, producing light in the 591 nm range.



ORDERING INFORMATION

EXAMPLE: 4764 LED AMB MVOLT VNCP CM LP DWH

4764 Series	LED Lamp type	AMB Color	MVOLT Voltage	VNCP Distribution	CM Mounting	
4762	63W	LED AMB Amber (591 nm)	MVOLT (120-277 volt) 120/277	VNCNP Volumetric Canopy	CM ⁵ Ceiling Mount CMDE ^{4,5} Surface Mount Conduit (3/4" NPT)	
4764	125W				PDM _{__1} Pendant Mount Damp Location, Specify Length 6-48" in 6" increments PDMW _{__1} Pendant Mount Wet Location, Specify Length 6-48" in 6" increments	
Accessories					LP Lamp	BL Finish
WLHS Wildlife Friendly House Side Shield	TPH Tamper Proof Hardware	Safety ESM Earthquake Seismic Mount BSK Bird spikes Controls XAD ⁵ Adura® Enabled Wireless Control XADN ⁵ Adura® Enabled Wireless Control (no relay)	PIR360SS0V Occupancy Sensor - On/Off PIR360SS1V Occupancy Sensor - 1 Volt (10% Dim) PIR360SS2V Occupancy Sensor - 2 Volt (20% Dim) PIR360SS3V Occupancy Sensor - 3 Volt (30% Dim) PIR360SS4V Occupancy Sensor - 4 Volt (40% Dim) PIR360SS5V Occupancy Sensor - 5 Volt (50% Dim)		LP Lamp Installed	BL Black BZ Bronze DDB Dark Bronze DNA Natural Aluminum DWH Gloss White GR Gray SND Sand STG Steel Gray WH White CF Custom __Z ⁷ Zinc Undercoat

Notes:

- 12" standard length if not specified.
- Option required for PDM and PDMW installations located in areas subject to seismic activity. Not available with CM mount.
- MVOLT is 50/60 Hz.
- Two (2) 3/4" NPT end knockout direct entry, one on each end.
- CM and CMDE are wet location listed, may be wall mounted.**
- XAD only available with 120/277 Volt.
- Zinc undercoat for harsh environments.

NOTE: Hydrel Reserves The Right To Modify Specification Without Notice. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)



20660 Nordhoff St., Suite B • Chatsworth, CA 91311 • www.hydrel.com
Phone: 866.533.9901 • Fax: 866.533.5291

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4/11/14
4760 WILDLIFE SERIES

PERFORMANCE DATA

IP64  IP65  

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Color	Distribution	Distribution					Power Factor	Rated THD		CCT	CRI	
		B	U	G	Watts	LPW		Lumens	120V (%)			277V (%)
AMB	VCNP	0	2	1	114.15	8	960.82	0.99	3	N/A	1474	-20

OPERATING TEMPERATURE: -30°C Through 40°C

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

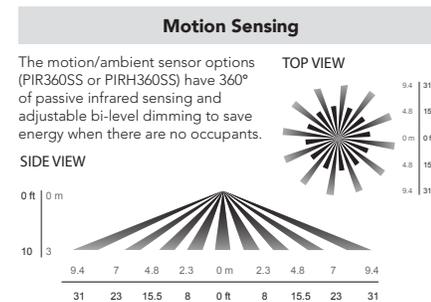
Ambient	Lumen Multiplier
0°C	1.03
10°C	1.02
20°C	1.01
25°C	1.00
30°C	.99
40°C	.98

Electrical Load

LED Chips	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
384	96mA	114.15	.95	.55	.48	.41	.33	.24

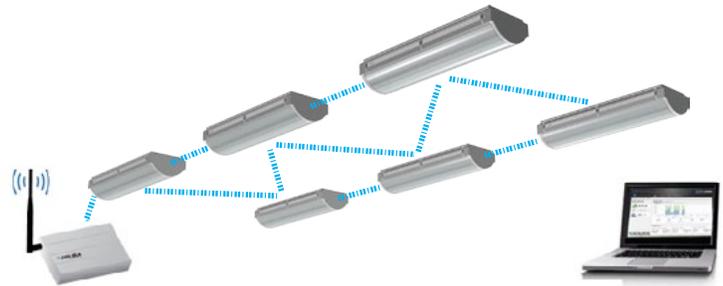
Motion Sensing

PIR360SS specifies the [SensorSwitch SBR-10-ODP](#) control; PIRH360SS specifies the [SensorSwitch SBR-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Dimming driver standard.



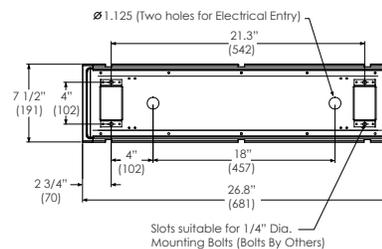
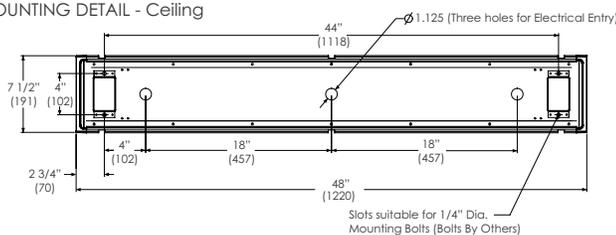
Adura® Wireless Technology

Adura® Enabled options support wireless grouping of multiple fixtures and sensors, wireless dimming control (unless otherwise noted), and two-way communication through LC&D XPoint Wireless System. Consult LC&D Sales for specification of additional wireless components such as occupancy sensors, photocells, system gateway, and software. More information about Adura® wireless technology can be found at http://www.lightingcontrols.com/productcatalog/xPoint_Wireless_System.asp



MOUNTING DETAIL

MOUNTING DETAIL - Ceiling



FEATURES & SPECIFICATIONS

MATERIAL: Extruded 6063-T4 aluminum with die cast A360 aluminum end caps. All fasteners are stainless steel.

LED: High output Amber LEDs, 114 watts, 961 lumens at 591nm.

VOLTAGE: Multi-Volt (120V – 277V 50/60 Hz), 0-10V dimming standard.

DISTRIBUTIONS: VCNP - Volumetric Canopy

LENS: Curved high strength optical grade clear acrylic.

MOUNTING: Ceiling Mounted over recessed box conduit stub-out or Pendant Mounted.

OPTIONS: Tamper-proof hardware and various pendant length options available.

CONTROLS: XAD by Adura and SBOR occupancy sensor available.

DRIVER: Integral Electronic multi-volt, thermally protected, 0-10VDC dimming, FCC 47CFR part 15, -25°C to 50°C.

FINISH: See ordering guide for color options.

ACCESSORIES: House-Side Shield, Flush Source Shield.

WEIGHT: (4762) 12 lbs., (4764) 22.6

EPA: (4762) 0.45 ft², (4762) 0.96 ft²

LISTING: CSA

WARRANTY: Five (5) year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

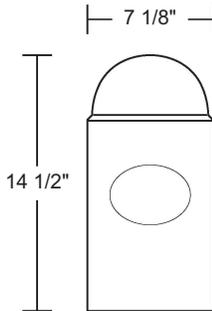
Consult factory for details



20660 Nordhoff St., Suite B • Chatsworth, CA 91311 • www.hydrel.com
Phone: 866.533.9901 • Fax: 866.533.5291

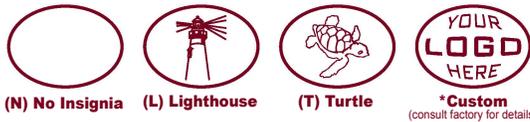
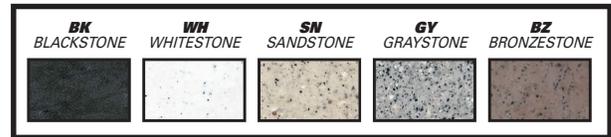
©2014 Acuity Brands Lighting, Inc.
4/11/14
4760 WILDLIFE SERIES

OUTDOOR WALL FIXTURE - S33W



EXTENDS:
4"
H/CTR:
7 3/4"
BACKPLATE:
14 1/8" x 6 3/4"

Wave Lighting's S33W was created for turtle friendly wildlife and security applications. This fixture is available in incandescent LED, and Amber LED, which have a peak wavelength of 590 nanometers and operate between 585 and 595nm required for wildlife protection. Wave Lighting's S33W is designed for wall applications and non-corrosive mounting hardware is included.



LED SOURCE OPTIONS

LED LIGHTWAVE

- 120V, 50/60 Hz
- AC Driver-On-Board Array
- Estimated 50,000 Hrs L₇₀
- Surge Supression
- Dimmable
- 3000K or 4000K CCT, 80 CRI
- 5 Year Warranty
- UL Listed & Energy Star Certified

E26 REPLACEABLE LED

- 120V, 50/60Hz
- "Screw-In" Medium Base A19/E26 LED Lamp
- Estimated 15,000 Hrs L₇₀
- Dimmable
- 3000K CCT 90CRI or 4000K** CCT, 80CRI
- 3 Year Warranty
- UL Listed, Energy Star Certified & T24 Compliant (3K only)

SPECIFICATIONS

- Black, White, Sand, Gray, & Bronzestone
- Nylon Non-Corrosive Hardware Included
- No Insignia, Lighthouse, Turtle or Custom Insignia
- Wall Mount Only
- Minimum Starting Temp -20°F
- Meets Standards for Beachfront, Turtle Safe Lighting

CALL FOR PHOTOMETRIC INFORMATION

ITEM #	INSIGNIA	LIGHT SOURCE	COLOR	OPTION	
S33W	N -No Insignia L -Lighthouse T -Turtle <div style="border: 1px solid red; padding: 2px; color: red; font-size: small;"> PROVIDE WITH MEDIUM BASE SOCKET AND TRUE AMBER LED BULBS, TYP. </div>	INCANDESCENT (1) 60W MAX Medium Base	BK -Blackstone WH -Whitestone SN -Sandstone GY -Graystone BZ -Bronzestone	PC -Photocell (GU24 & LED only)	
		LED LIGHT SOURCE			
		120V LIGHTWAVE LED LR12-13W 1000lm E26 MEDIUM BASE LED LE26-A19 800lm			CCT C-4K W-3K <small>(E26 27K)</small>
		120-277V AMBER LED L9*-A19 470lm, 585-595nm			

* Special order item. Longer lead times may apply. ** Not T24 Compliant. Energy Star Qualified Product

ZXL30i-CM-AMB

Ceiling Mount ■ ZX30-CM Series

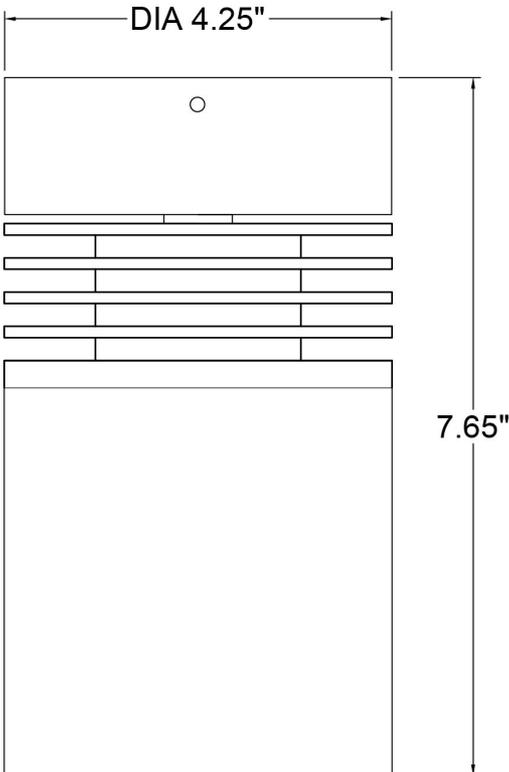


Characteristics



Technical Data

Material	Housing/Cap/Stem - Machined silicone magnesium aluminum alloy (6061-T6) resistant to corrosion Stainless steel (SS304) hardware
Lamp	AMBERLED
Hood	B
Voltage	120V, 277V
Wattage	10W, 15W
Reflector	30°, 40°
Wave-length	588~594nm
Power Supply	Integral LED Driver



PROJECT

FIXTURE TYPE **BmG**

Ordering Guide

Series	ZXL30i-CM-AMB
Hood	B
Glare Shields (optional)	GSL GSS
Voltage	120V 277V
Wattage	10W 15W
Lamp	AMBERLED
Reflector	30° 40°
Louver	LV30
Finish	BK (black) BZ (bronze) WT (white) ABK (anodized black) ACL (anodized clear) CC (custom)

Type Bml

AMERICAN PERMALIGHT INC.



MAIN CATALOG

Photoluminescent Safety Products and Bumper Guards





Dear Customer:

March 2016 marked American PERMALIGHT® Inc.'s 28th Anniversary as a California Incorporation. The Codes and Standards-acceptance of our photoluminescent safety products has come a long way

since 1988. In 1994, following the first terrorist bomb attack in the World Trade Center basement parking garage, the Port Authority of New York and New Jersey installed PERMALIGHT® photoluminescent markings on the steps, landings and handrail top bars of their emergency staircases.

During the 9/11 World Trade Center New York City evacuation, 33% of survivors in WTC Tower I and 17% of survivors in WTC Tower II were aided by the PERMALIGHT® photoluminescent markings on the steps, landings and handrails. (see NIST study at <http://wtc.nist.gov/NCSTAR1/PDF/NCSTAR%201-7.pdf>). Based on the NIST findings, the New York City Department of Buildings developed a range of improvements, enforced by Local Law 26 of 2004, which included photoluminescent exit path markings.

Since then, both NFPA (National Fire Protection Association) and ICC (International Code Council) have added photoluminescent egress path markings to their domestic codes.

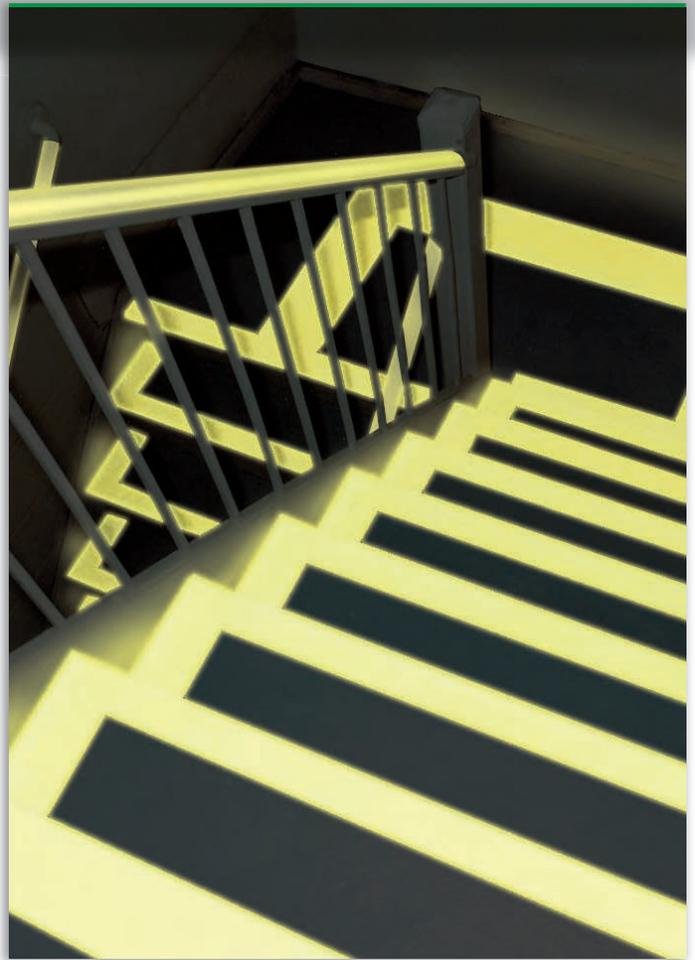
Follow the lead of the Code-writing organizations and improve life safety in your buildings, using PERMALIGHT® photoluminescent exit path markings. Take precautions now! Once the emergency occurs, it is too late!

Browse through the following pages.

Contact our Customer Service team for a complimentary consultation, more detailed product information or a customized price quote.

You may place your order by phone, fax or email. Order online at www.seepermalight.com

Klaus Kroschke, CEO



PERMALIGHT® World Trade Center New York 1994 Installation

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IBC / IFC compliant UL1994 listed Egress Path Markings

IBC / IFC Means of Egress Regulations

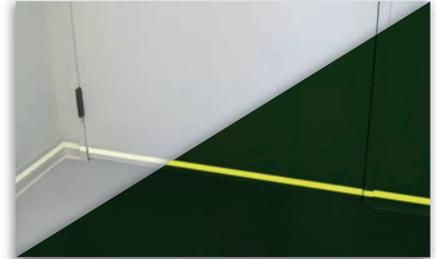
The IBC and IFC require luminous egress path markings in all assembly, business, educational, institutional/ hospital, mercantile and hotel/ motel buildings having occupied floors located more than 75 feet above the lowest level of fire department vehicle access. Photoluminescent markings are required in all exit enclosures on the steps, landings, handrails, as perimeter demarcation lines, on obstacles and doors from exit enclosures. The IBC & IFC requirements are enforced by building inspectors and fire code officials.



» **Steps**
marking applied to horizontal leading edge



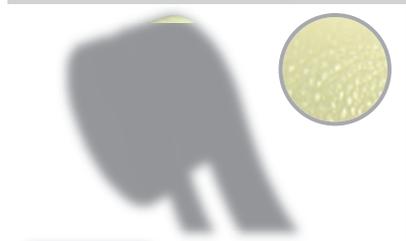
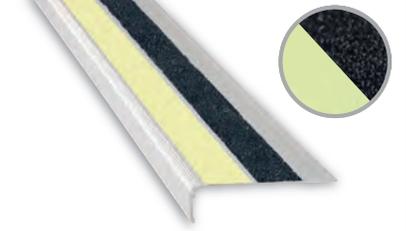
» **Landings**
leading edge & landing outline marked



» **Perimeter**
demarcation lines

PERMALIGHT® Step and Landing Markings, Floor-mounted Demarcation Markings



	Model No.	Item No.	Dimensions	Description
	CC-ALU	83-60207	1" x 48"	Photoluminescent aluminum* strip with foamy adhesive backing. (* Not a thin, flimsy foil but a durable, semi-stiff aluminum metal). Floor-suitability tested by Underwriters Laboratories Inc.
	CC-AST	83-1780	1" x 52 ft.	Photoluminescent anti-slip tape with self-adhesive backing. Slightly structured anti-slip surface. Floor-suitability tested by Underwriters Laboratories Inc.
	CC-AST	83-1780L	1" x 79 ft.	
	CC-AST	83-0780	2" x 52 ft.	
	CC-AST	83-0780L	2" x 79 ft.	
	CC-NOSING	83-40447L	2-5/8" x 1-1/8" x 48"	90° angled aluminum stair nosing (silver-color anodized) with photoluminescent, anti-slip gritty aluminum strip and black, anti-slip gritty insert. Floor-suitability tested by Underwriters Laboratories Inc. Custom-lengths available – Call us!

The right accessories are important for durable, fast and efficient installations. Here are the most important ones at a glance.....



3M Safety-Walk™ Primer 901

One quart covers approximately 35 square feet.

Description	Size	Item No.
Primer	1 Quart	83-0781



Edge Sealing Acrylic Lacquer

This 0.528 pint (250 ml) bottle yields approx. 150 linear feet.

Description	Size	Item No.
Acrylic Lacquer	0.528 pint	83-0783

Pressure roller

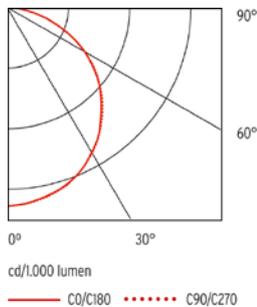
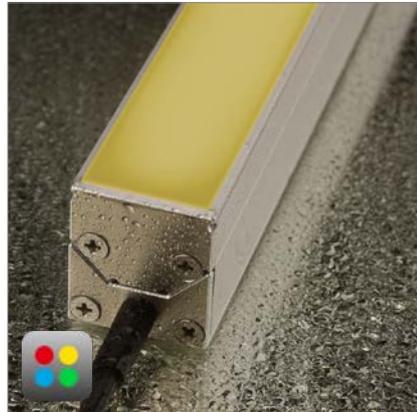
To firmly press-apply self-adhesive tapes for a firm bond:



Description	Item No.
1-3/4" Roller Width	86-7006

XOOLUM™ ATON Color Y IP67

Order code: XOOLUM ATON COLOR Y/4010-B-A-BS-IP67



Tape:	ATON Color Y
Length:	4,010.0 mm
Profile color:	Black
Cable feed:	Back side, 2 meter (through mounting channel)
Step measurement:	mm/ 0 LED
Ingress protection:	IP67
Dimensions (max.):	4,010.0 mm x 25.40 mm x 31.00 mm
Power:	8.0 W/m
Voltage:	V
Temperature (min and max):	T _{c_min} -25°C/T _{c_max} 70°C
Storage temperature (min and max):	T _{s_min} -30°C/T _{s_max} 85°C
Ambient temperature (min and max):	T _{a_min} -25°C/T _{a_max} 40°C
Lumen:	156 lm
Efficiency:	15.00 lm/W
max. serial run length:	0 m
Lifetime:	30,000 h
Ingress protection:	IP67



L80 30,000 h

LM 79 konform

LM 79

LM 80 konform

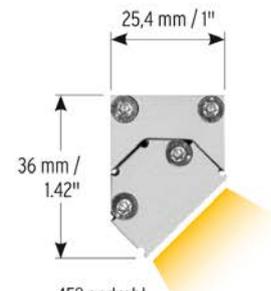
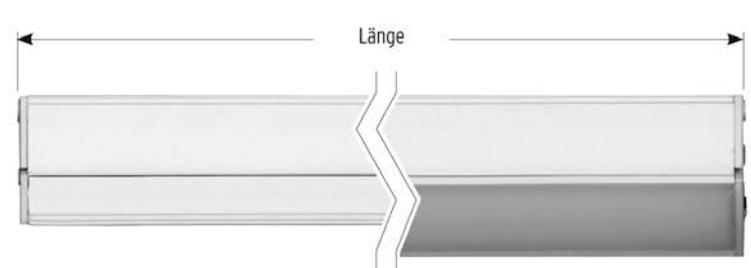
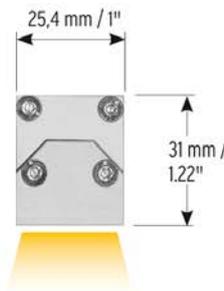
LM 80

UV protected

Resistant to solvents

Saltwater resistant

Protection against temporary



Extrudiertes und eloxiertes Aluminiumgehäuse

45° gedreht



XOOLUM™ ATON Color Y IP67

24 V, modular, light intensive linear LED luminaire in IP67 with adjustable luminaire head (45°) and a homogeneous light emission surface due to an opal encapsulation.

Available in silver or black profile color as surface-mounted version. 2 m black cable with open end on one side. High quality and homogeneous illumination. Japanese LED. Lifetime of (L80).

Installation friendly, attachable and durable luminaire housing with a small cross section made from extruded and anodized aluminium with screwed Al-endcaps.

Made in Germany.



Sunlite LED S14 Colored Sign 1.1W (25W Equivalent) Light Bulb Medium (E26) Base, Amber

Sunlite LED lamps are extremely energy efficient and will greatly reduce your energy costs. These lamps can last up to 30,000 Hours making them virtually maintenance free. They contain no mercury elements and do not release any hazardous gasses so there no need to worry in case a bulb breaks and no need for any special recycling as with CFLs. With their high efficiency, their low wattage does not mean you lose out on brightness. This 120 volts, 1.1 Watt, Sign features a medium base, produces a spectacular amber light, and can fit right into your living room or into the most cutting edge, state of the art, lighting design project.

- These lamps can last up to 50,000 hours making them virtually maintenance free
- This 120 volts, 1.1 watt, S14 is extremely energy efficient and features a medium base
- Produces a spectacular amber light, using only 1.1 watts of energy
- Contains no mercury and doesn't release any hazardous gasses so there's no need to worry if a bulb breaks and no need for recycling as with CFLs
- Can fit right into your living room or into the most cutting edge, state of the art, lighting design project

General Characteristics

Bulb	S14
Lamp Type	Colored Series
Lamp Life Hours	50000 Hours
Material	Glass & Nickel Plating
Bulb Finish	Transparent Amber
LED Type	Epistar
Base	Medium (E26)
Life (based on 3hr/day)	45.7 Years
Estimated Energy Cost	\$0.13 per Year
Ingress Protection	54

Electrical Characteristics

Watts	1.1
Volts	120
Equivalent Watts	25W
LED Chip Manufacturer	Epistar
Number of LEDs	30
Power Factor	0.275
Temperature	-20° To 55°

Light Characteristics

Brightness	40-50 Lumens
Light Appearance	Amber
Color Temperature	600-610nm
Beam Angle	360°

Product Dimensions

MOL (in)	3.14"
Diameter (in)	1.77"
Item Dimensions (in)	(W) 1.77 (H) 3.30 (D) 1.77
Package Dimensions (in)	(W) 2.20 (H) 3.90 (D) 2.20

Product Data

Item Number	80366-SU
Case Quantity	20
Barcode on SKU	653703803661
Brand	SUNLITE
Description	S14/30LED/MED/A



Bulb Type BRB



LED Replacement Lamps

LED Turtle Lights

Wild-life Lighting Approved 9/9.5 Watt LED
A19 Turtle Light - Medium Base Amber



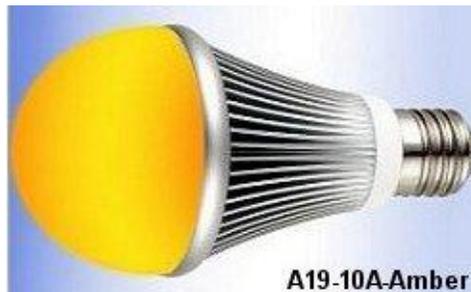
9/9.5W A19 Amber	Eco-\$mart Price: Quoted
LTLED-A19-10WA-Amber	Quote

Eco-\$mart 9/9.5 Watt Amber Turtle Light produces a peak spectral output of 590 nanometers that falls within the optimal wave-length range for sea turtle friendly lighting (over 560 nanometers). Fully encapsulated, 120 Volt, A19 standard medium base LED bulb directly replaces incandescent, halogen and CFL bulbs with significantly fewer watts.

- Save 70-80% energy costs when replacing incandescent lamps.
- Long lifespan, over 50,000 hours. Little to no maintenance for 7 years.
- Safe low heat light.
- Environment friendly, no UV and infrared, no mercury.
- Solid State, Vibration-resistant, Safe shipping, handling, and installation.

Applications: The Eco-\$mart Turtle light is Wildlife Lighting Approved when installed in a wildlife friendly fixture and used to meet minimal lighting standards. It has wide applications and is very suitable for low light areas and decorative lighting in:

- ◆ Landscaping ◆ Service Stations ◆ Clubs ◆ Stores
- ◆ Hotels ◆ Restaurants ◆ Gyms ◆ Airports ◆
- Office Buildings ◆ Factories



Amber Output

Technical Specifications:

Item:	A19-10WA-Amber Power:
9/9.5 Watts	
Base:	Medium E26/27
Size (inches):	2.5 x 5.1
Voltage:	85 to 265VAC
Lumens:	490
Nanometers:	590
Beam Angle:	120°
Approvals:	UL, CE, ROHS, FFWCC Approved
Replace Bulb:	60 Watt

<< [Return to LED Turtle Lights](#)

[My Catalog](#)

©2012 [Eco-\\$mart, Inc.](#) (888) 329-2705 info@eco-smart.com www.eco-smart.com

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Bulb Type BRC

Eco-\$mart, Inc.
(888)329-2705 ph
(941)377-9460 fx
www.eco-smart.com

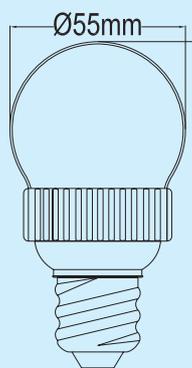
LED Bulb

A-19 3W HO (With Red and Amber Turtle Lamp Option)

Led bulb features

- Long lifespan, over 50,000 hours.
- Low electricity consumption, your electricity bill will be cut down sharply. Save 70—80% electric energy than incandescent lamp.
- Little maintenance cost, you don't need to worry about how to replace the failed bulb for 7 years.
- Safe, the light temperature is low.
- Environment friendly, no UV and infrared, no hazardous substance.
- Vibration-resistant, easy for transportation.
- It is used for replacing incandescent lamp.
- Wide applications: It is very suitable for decoration lighting in stations, clubs, stores, hotels, restaurants, gyms, airports, office buildings, factories, etc.

Products Picture



Application picture



Technical Specifications

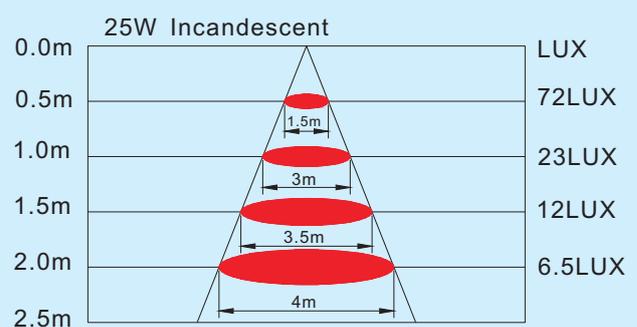
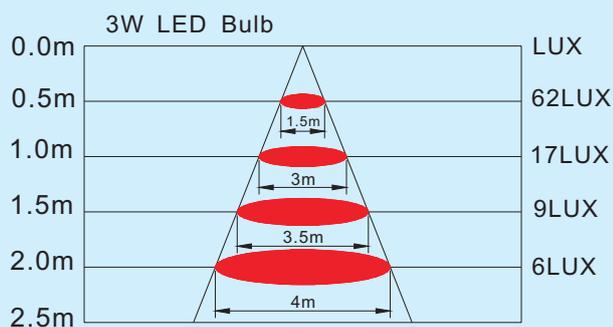
- Power Factor(PF):>0.55
- Total Harmonic Distortion:<15%
- Wavelength: Red - 650,NM. Amber - 585 NM
- Color Temperature: warm white2600K~4500K pure white 5000K~7000K
(Remarks: Different requirements can be met: RGB Color, Watt, Lux, An-gle, etc.)

Item	Power	Voltage	Input Current	Work frequency	Color	Lumens	Package Size	Gross Weight
CTC-11	3W	AC90V~160V	40mA~31mA	60Hz	warm white /pure white Red, Amber	216lm/ 230 lm	87x87x130mm	125g
		AC190V~265V	20mA~17mA	50Hz				

Parameter Comparison

Characteristics	LED Bulb	Incandescent
Efficiency	3W	25W
Long Life	50000 Hour	1000 Hour
Reliability	Solid State	Weak tungsten
Environment	Returnable	Unrecoverable
Heat	<50°C	>150°C
Hart on body	Green Lighting	UV

Lux Parameter



SOLID STATE AREA LIGHTING

RAZAR SERIES-LED

SPECIFICATIONS

PROJECT NAME: **TURTLE LIGHTING RETROFITS**

PROJECT TYPE: _____

OPTICAL HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\leq \pm .002"$) to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ELECTRICAL HOUSING w/ INTEGRATED ARM

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

LED DRIVER(S)

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

LED EMITTERS

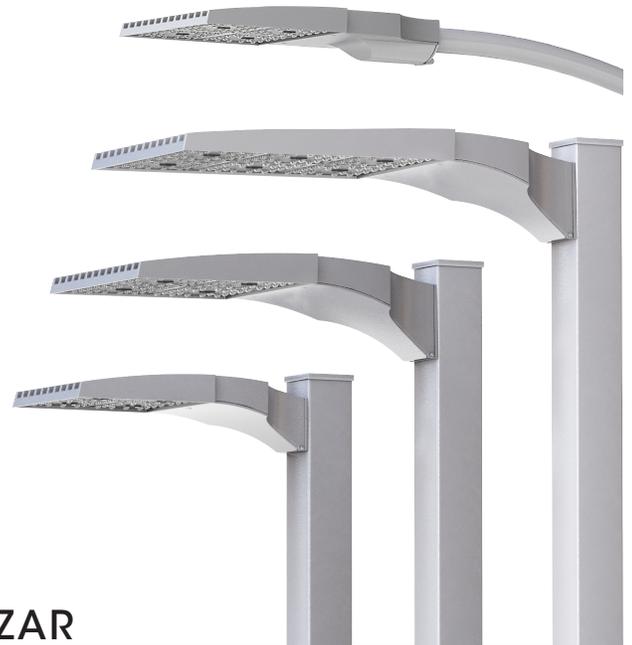
High output LED's are utilized with drive currents ranging from **350mA** to 1050mA. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

MAST ARM FITTER/ELECTRICAL HOUSING

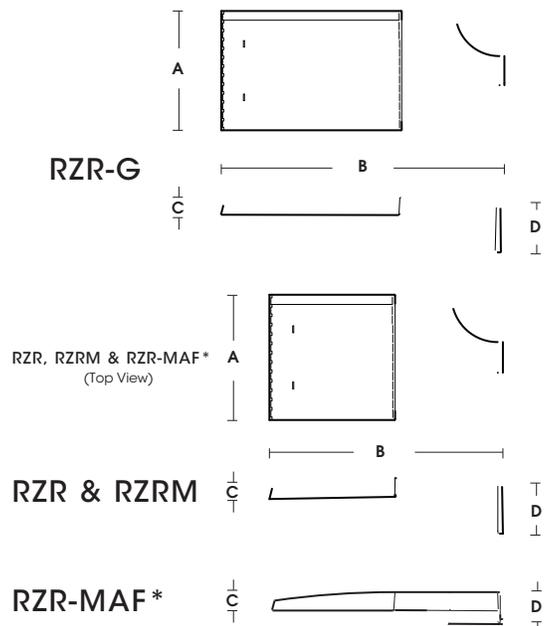
Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon. Two (2) straps with two (2) bolts each encircle the lower half of the tenon. Upper half of the tenon rests on self-centering steps that position the angle of the luminaire at 0°, +1.5°, +1.5° or +3° up from the horizontal. All hardware is stainless steel.



RAZAR

(MODELS: RZRM, RZR, RZR-G & RZR-MAF*)

PATENT PENDING



FIXTURE	A	B	C	D
RZR-G	15" 381mm	36.5" 927mm	3" 76mm	7" 187mm
RZR	14.75" 375mm	28.25" 718mm	2.75" 70mm	6.5" 165mm
RZRM	11.5" 292mm	22" 559mm	2.5" 64mm	5.25" 133mm
RZR-MAF	15" 381mm	28.25" 724mm	2.5" 64mm	4" 102mm

*DLC PENDING AS OF 7/17



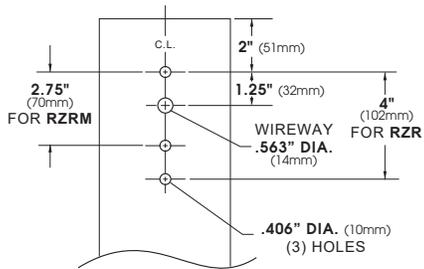
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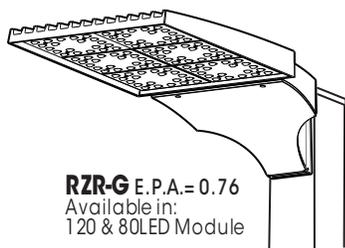
RAZAR SERIES-LED

SPECIFICATIONS

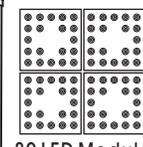
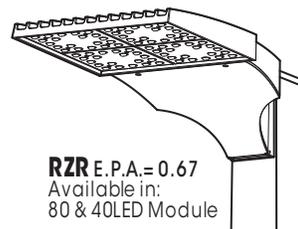
POLE DRILLING TEMPLATE



PLED® MODULES



120 LED Module

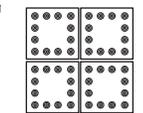
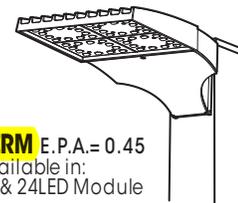


80 LED Module

Approximate Average Lumens - 4000K

(Lumens median of all distributions)

	350mA			525mA			700mA			1050mA		
	Watts	Lumens	HID Eq.	Watts	Lumens	HID Eq.	Watts	Lumens	HID Eq.	Watts	Lumens	HID Eq.
24	28	3541	50	41	5058	70-100	53	6567	100	81	8773	150-175
40	45	5997	70-100	66	8653	100-150	87	10995	175	134	14647	200-250
48	55	7046	100	81	10018	150-175	105	12600	200	160	17566	250
80	87	11622	175-200	131	16736	200-250	174	21235	400	266	28190	450-575
120	127	17405	250	195	24860	450	260	31592	575-750	396	43323	750-1000



48 LED Module

RZR-G/PLED/120LED-350mA/TRUE AMBER-CREE XP-E2/VOLTAGE/FINISH, TYPES II, IV, AND V

Spec/Order Example: RZR/PLED-IV/80LED-700mA/CW/277/RAL-8019-S/10SP

SPEC / ORDERING INFORMATION

MODEL	OPTICS	LED MODE			VOLTAGE	FINISH	OPTIONS
MODEL	OPTICS	LED MODE			VOLTAGE	FINISH	OPTIONS
<input type="checkbox"/> RZR-G	<input type="checkbox"/> TYPE II PLED-II	<input type="checkbox"/> 120LED	<input type="checkbox"/> 350mA	<input type="checkbox"/> NW (4000K)* *STANDARD	<input type="checkbox"/> 120	<input type="checkbox"/> BLACK RAL-9005-T	<input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR HLSW
	<input type="checkbox"/> TYPE II FRONT ROW PLED-II-FR	<input type="checkbox"/> 80LED	<input type="checkbox"/> 525mA	<input type="checkbox"/> CW (5000K)	<input type="checkbox"/> 208	<input type="checkbox"/> WHITE RAL-9003-T	<input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD . . . HS-PLED
<input type="checkbox"/> RZR	<input type="checkbox"/> TYPE II MEDIAN ILLUMINATOR PLED-II-ML	<input type="checkbox"/> 80LED	<input type="checkbox"/> 700mA	<input type="checkbox"/> WW (3000K)	<input type="checkbox"/> 240	<input type="checkbox"/> GREY RAL-7004-T	<input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) . . PC+V
<input type="checkbox"/> RZR-MAF*	<input type="checkbox"/> TYPE III MED. PLED-III-M	<input type="checkbox"/> 40LED	<input type="checkbox"/> 1050mA	<input type="checkbox"/> CONSULT FACTORY FOR OTHER LED COLORS	<input type="checkbox"/> 277	<input type="checkbox"/> DARK BRONZE RAL-8019-T	<input type="checkbox"/> TWIST LOCK PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) . . TPC+V
<input type="checkbox"/> RZRM	<input type="checkbox"/> TYPE III WIDE PLED-III-W	<input type="checkbox"/> 48LED	<input type="checkbox"/> TRUE AMBER-CREE XP-E2		<input type="checkbox"/> 347	<input type="checkbox"/> GREEN RAL-6005-T	<input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY . . . TPR
	<input type="checkbox"/> TYPE IV PLED-IV	<input type="checkbox"/> 24LED			<input type="checkbox"/> 480	FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9005-S)	<input type="checkbox"/> 7-PIN TWIST LOCK RECEPTACLE ONLY . . . TPR7
	<input type="checkbox"/> TYPE IV PLED-IV-FT					CONSULT FACTORY FOR CUSTOM COLORS	<input type="checkbox"/> SINGLE FUSE (120V, 277V, 347V) . . SF
	<input type="checkbox"/> TYPE V NARROW PLED-V-SQ-N						<input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V) . . DF
	<input type="checkbox"/> TYPE V MED. PLED-V-SQ-M						<input type="checkbox"/> STEP DIM MOTION SENSOR (PROGRAMMED 50/100) MS-F211
	<input type="checkbox"/> TYPE V WIDE PLED-V-SQ-W						<input type="checkbox"/> REMOTE MOTION SENSOR CONFIGURATOR MS-FC10



RAZAR SERIES-LED

LED/ELECTRICAL GUIDE

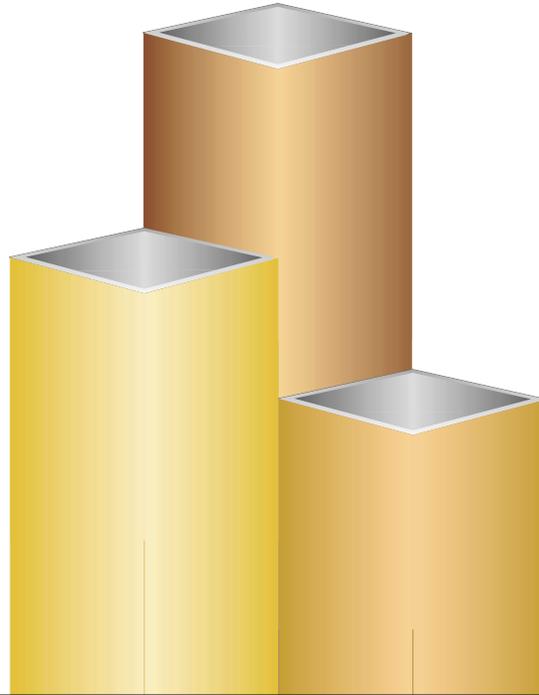
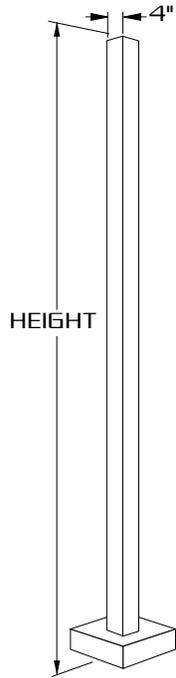
LED COUNT	SOURCE TYPE	SOURCE	INITIAL LUMENS - 4000K CCT	INITIAL LUMENS - 3000K CCT	INITIAL LUMENS - 5000K CCT	L70 GREATER THAN (HR)	STARTING TEMP.	SYSTEM WATTS	VOLTS	MAX INPUT AMPS
24	LED	24 PLED® Optical Module - 350mA	3,298 - 3,784	3,133 - 3,595	3,463 - 3,973	60,000+	-20°F	29	120 277	0.24 0.10
24	LED	24 PLED® Optical Module - 525mA	4,711 - 5,405	4,475 - 5,135	4,947 - 5,675	60,000+	-20°F	42	120 277	0.34 0.15
24	LED	24 PLED® Optical Module - 700mA	6,023 - 6,911	5,722 - 6,565	6,324 - 7,256	60,000+	-20°F	56	120 277	0.45 0.20
24	LED	24 PLED® Optical Module - 1050mA	8,171 - 9,375	7,762 - 8,906	8,580 - 9,844	60,000+	-20°F	82	120 277	0.68 0.30
40	LED	40 PLED® Optical Module - 350mA	5,585 - 6,408	5,306 - 6,088	5,864 - 6,729	60,000+	-20°F	43	120 277	0.38 0.17
40	LED	40 PLED® Optical Module - 525mA	8,059 - 9,246	7,656 - 8,784	8,462 - 9,709	60,000+	-20°F	65	120 277	0.55 0.24
40	LED	40 PLED® Optical Module - 700mA	10,240 - 11,749	9,728 - 11,162	10,752 - 12,337	60,000+	-20°F	87	120 277	0.73 0.32
40	LED	40 PLED® Optical Module - 1050mA	13,642 - 15,652	12,960 - 14,870	14,324 - 16,435	60,000+	-20°F	128	120 277	1.12 0.49
48	LED	48 PLED® Optical Module - 350mA	6,562 - 7,529	6,234 - 7,153	6,890 - 7,909	60,000+	-20°F	53	120 277	0.46 0.20
48	LED	48 PLED® Optical Module - 525mA	9,330 - 10,705	8,864 - 10,170	9,797 - 11,240	60,000+	-20°F	79	120 277	0.68 0.29
48	LED	48 PLED® Optical Module - 700mA	11,735 - 13,464	11,148 - 12,791	12,322 - 14,137	60,000+	-20°F	106	120 277	0.88 0.38
48	LED	48 PLED® Optical Module - 1050mA	16,360 - 18,771	15,542 - 17,832	17,178 - 19,709	60,000+	-20°F	160	120 277	1.33 0.58
RZR										
80	LED	80 PLED® Optical Module - 350mA	10,824 - 12,419	10,283 - 11,798	11,365 - 13,040	60,000+	-20°F	86	120 277	0.75 0.33
80	LED	80 PLED® Optical Module - 525mA	15,587 - 17,884	14,808 - 16,990	16,366 - 18,778	60,000+	-20°F	130	120 277	1.10 0.48
80	LED	80 PLED® Optical Module - 700mA	19,767 - 22,680	18,779 - 21,546	20,755 - 23,814	60,000+	-20°F	174	120 277	1.45 0.63
80	LED	80 PLED® Optical Module - 1050mA	26,255 - 30,124	24,942 - 28,618	27,568 - 31,630	60,000+	-20°F	257	120 277	2.22 0.96
RZR-G										
80	LED	80 PLED® Optical Module - 350mA	10,950 - 12,564	10,403 - 11,936	11,498 - 13,192	60,000+	-20°F	87	120 277	0.75 0.33
80	LED	80 PLED® Optical Module - 525mA	15,735 - 18,054	14,948 - 17,151	16,522 - 18,957	60,000+	-20°F	129	120 277	1.10 0.48
80	LED	80 PLED® Optical Module - 700mA	20,074 - 23,032	19,071 - 21,881	21,078 - 24,184	60,000+	-20°F	174	120 277	1.45 0.63
80	LED	80 PLED® Optical Module - 1050mA	27,651 - 31,725	26,268 - 30,139	29,033 - 33,311	60,000+	-20°F	266	120 277	2.22 0.96
120	LED	120 PLED® Optical Module - 350mA	16,211 - 18,599	15,400 - 17,669	17,021 - 19,529	60,000+	-20°F	130	120 277	1.06 0.46
120	LED	120 LE® Optical Module - 525mA	23,154 - 26,566	21996 - 25,238	24,312 - 27,894	60,000+	-20°F	192	120 277	1.63 0.70
120	LED	120 PLED® Optical Module - 700mA	29,424 - 33,760	27,953 - 32,072	30,895 - 35,448	60,000+	-20°F	260	120 277	2.17 0.94
120	LED	120 LED® Optical Module - 1050mA	40,350 - 46,296	38,333 - 43,981	42,368 - 48,611	60,000+	-20°F	398	120 277	3.33 1.43

- NOTES:**
1. Max Input Amps is the highest of starting, operating, or open circuit currents.
 2. Lumen values for LED Modules vary according to the distribution type. 80LED array appears in both the RZR and RZR-G models.
 3. System Watts includes the source watts and all driver components.
 4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use surge suppressor supplied with luminaire.
Note: Surge suppressors are considered a perishable device.
 5. L70(10K) - TM-21 6x rule applied.

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.



SNTA 4"



4" SQUARE STRAIGHT ALUMINUM

SPECIFICATIONS

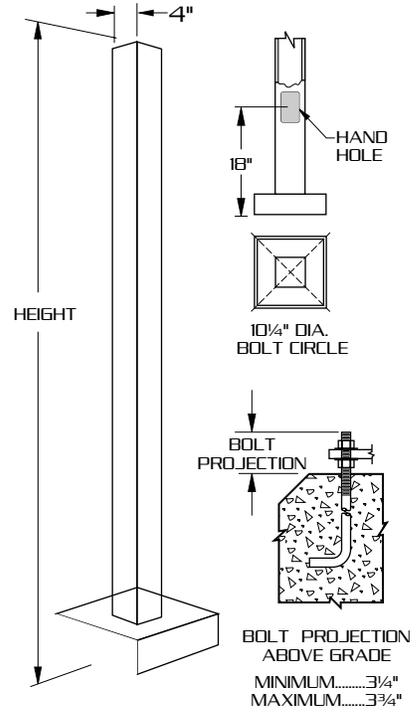
- SHAFT:** 4" SQUARE, EXTRUDED FROM 6063 ALLOY ALUMINUM TUBING. HEAT TREATED TO PRODUCE A T6 TEMPER. SHAFT INCLUDES A PERIPHERALLY REINFORCED HAND HOLE FURNISHED WITH COVER. SHAFT IS FURNISHED WITH GROUND LUG LOCATED ON CAST ALUMINUM BASE PLATE.
- BASE PLATE:** CAST ALUMINUM CONSTRUCTED OF A-356 ALUMINUM ALLOY HEAT TREATED TO PRODUCE A T6 TEMPER. STRUCTURALLY ENGINEERED BASE INCLUDES EIGHT HEAVY WALL REINFORCING VERTICAL GUSSETS. BASE TELESCOPES AND IS CIRCUMFERENTIALLY WELDED TO SHAFT AT BOTH THE OUTSIDE TOP AND INSIDE BOTTOM OF THE BASE.
- ANCHORAGE:** [4] ANCHOR BOLTS FABRICATED FROM HOT ROLLED STEEL BAR. MINIMUM YIELD STRENGTH OF 50,000 P.S.I. BOLTS HAVE "L" BEND ON ONE END AND ARE THREADED ON THE OTHER END. BOLTS ARE FULLY GALVANIZED AND ARE FURNISHED WITH TWO NUTS AND TWO WASHERS.
- BASE COVER:** FABRICATED FROM HEAVY WALL ALUMINUM CONSTRUCTION. TWO PIECE COVER ENTIRELY CONCEALS BASE.
- FINISH:** POLYESTER POWDER COAT-STATE OF THE ART 20 PSI PRESSURE POWER WASH AT 140° TEMPERATURE INCORPORATES FOUR STEP IRON PHOSPHATE PROCESS TO CLEANSE AND PRETREAT THE METAL SURFACE FOR MAXIMUM PAINT ADHESION. ELECTROSTATICALLY APPLIED TEXTURED POLYESTER POWDER TOPCOAT IS BAKED AT 400° TEMPERATURE FOR MAXIMUM HARDNESS AND EXTERIOR DURABILITY.

SNTA SERIES

ENGINEERING DATA Maximum EPA - Square Feet

Catalog Number	Maximum Fixt. wgt.	100 MPH	90 MPH	80 MPH	70 MPH
SNTA 84-125	100	12.2	15.7	20.5	27.4
SNTA 104-125	100	8.2	11.1	14.6	20.0
SNTA 124-125	100	5.4	7.5	10.5	14.9
SNTA 144-125	100	3.3	5.0	7.5	11.2
SNTA 164-125	100	1.8	3.2	5.2	8.2
SNTA 164-188	200	4.4	6.6	9.4	13.7
SNTA 184-125	100	N/A	1.7	3.5	6.2
SNTA 184-188	125	2.9	4.7	7.1	11.0
SNTA 204-188	125	1.4	2.9	5.1	8.3

All above design calculations are based on sustained wind forces plus additional 1.3 wind gust
(Example: Pole rated at 80 MPH withstands 104 MPH gusts)



ORDERING INFORMATION

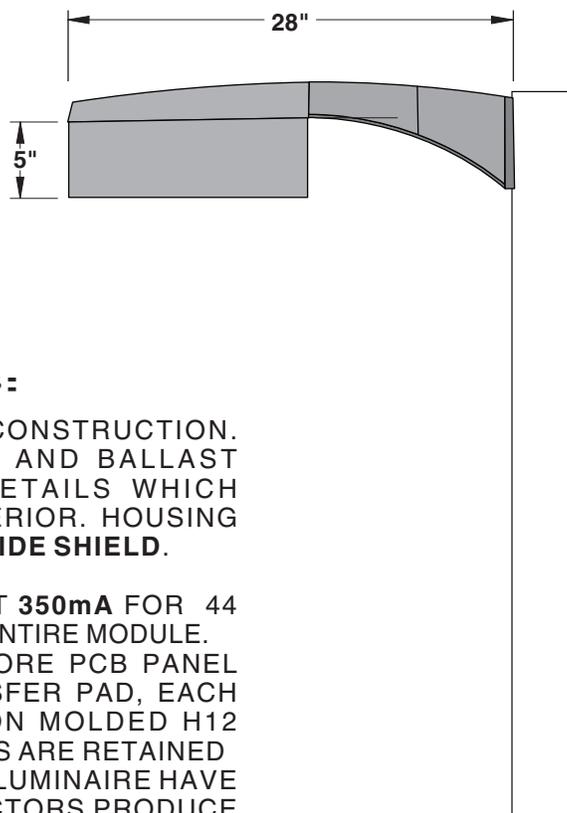
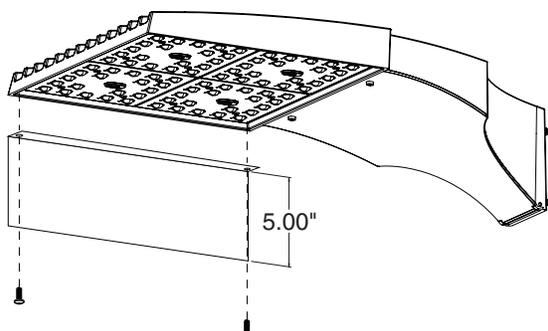
MODEL NO. : SNTA	POLES	MOUNTING	FINISH	OPTIONS
S	POLE HEIGHT	MOUNTING	FINISH	OPTIONS
N	WALL THICKNESS	<input type="checkbox"/> 2 3/8"X4" TENON PT23	STANDARD SMOOTH FINISH	<input type="checkbox"/> DUPLEX RECEPTACLE DUP
T	BOLT CIRCLE	<input type="checkbox"/> 2 7/8"X4" TENON PT27	<input type="checkbox"/> BLACK RAL-9005-S	<input type="checkbox"/> GFI RECEPTACLE GFI
A	ANCHORAGE	<input type="checkbox"/> OTHER TENON MT _____	<input type="checkbox"/> WHITE RAL-9003-S	<input type="checkbox"/> 3 WAY ADAPTER T3120
<input type="checkbox"/> 84-125 8'	.125 10 1/4"	DRILL MOUNT	<input type="checkbox"/> GREY RAL-7004-S	<input type="checkbox"/> 1/2" COUPLING CPLN1/2
<input type="checkbox"/> 104-125 10'	.125 10 1/4"	<input type="checkbox"/> 1.....	<input type="checkbox"/> DRK BRONZE RAL-8019-S	<input type="checkbox"/> 3/4" COUPLING CPLN3/4
<input type="checkbox"/> 124-125 12'	.125 10 1/4"	<input type="checkbox"/> 2-180.....	<input type="checkbox"/> GREEN RAL-6005-S	<input type="checkbox"/> 2" COUPLING CPLN2
<input type="checkbox"/> 144-125 14'	.125 10 1/4"	<input type="checkbox"/> 3-90.....	OPTION:	(SPECIFY COUPLING LOCATION)
<input type="checkbox"/> 164-125 16'	.125 10 1/4"	<input type="checkbox"/> 4-90.....	<input type="checkbox"/> BRONZE ANODIZED AZ313	SEE ACCESSORIES SECTION FOR OTHER OPTIONS.
<input type="checkbox"/> 164-188 16'	.188 10 1/4"	<input type="checkbox"/> 2-90.....	<input type="checkbox"/> NATURAL ANODIZED AZ	
<input type="checkbox"/> 184-125 18'	.125 10 1/4"	<input type="checkbox"/> 3-120.....	<input type="checkbox"/> BLACK ANODIZED AZBK	
<input type="checkbox"/> 184-188 18'	.188 10 1/4"	3-120 REQUIRES PT27 AND T3120 ADAPTER	FOR TEXTURED FINISH REPLACE SUFFIX "S" WITH SUFFIX "T" (EXAMPLE: RAL-9005-T)	
<input type="checkbox"/> 204-188 20'	.188 10 1/4"		CONSULT FACTORY FOR CUSTOM COLORS	

CUSTOMER APPROVAL:

X _____ DATE: _____

A signed approval will be required with the released order

PROPRIETARY SUBMITTAL, DO NOT MODIFY.



SPECIFICATIONS:

HOUSING: PRECISE, ONE PIECE CAST ALUMINUM CONSTRUCTION. AERODYNAMIC STYLING OF HOUSING AND BALLAST COMPARTMENT FEATURES RIBBED DETAILS WHICH DISSIPATES HEAT FROM LUMINAIRE INTERIOR. HOUSING PROVIDED WITH A **RIGHT OR LEFT HOUSE SIDE SHIELD**.

OPTICAL: 40 LUXEON T EMITTERS (LED'S) DRIVEN AT **350mA** FOR 44 TOTAL INPUT WATTS. **TRUEAMBER** FOR THE ENTIRE MODULE. EMITTERS ARE ARRAYED ON A METAL CORE PCB PANEL LOCATED ON A COPPER THERMAL TRANSFER PAD, EACH EMITTER IS ENCLOSED BY AN INJECTION MOLDED H12 ACRYLIC LED REFRACTOR. ALL REFRACTORS ARE RETAINED BY AN ALUMINUM FRAME. ALL PANELS IN A LUMINAIRE HAVE THE SAME OPTICAL PATTERN. LED REFRACTORS PRODUCE STANDARD SITE/AREA DISTRIBUTION **TYPE II,III,IV OR V-SQ**. PANELS ARE FIELD REPLACEABLE AND FIELD ROTATABLE IN 90° INCREMENTS.

DRIVERS: CONSTANT CURRENT ELECTRONIC WITH A POWER FACTOR OF $>.90$ AND A MINIMUM OPERATING TEMPERATURE OF -40°F . DRIVER(S) IS/ARE UL AND CUL RECOGNIZED AND MOUNTED DIRECTLY AGAINST THE ELECTRICAL HOUSING TO FACILITATE THERMAL TRANSFER, HELD DOWN BY UNIVERSAL CLAMPS TO FACILITATE EASY REMOVAL. IN-LINE TERMINAL BLOCKS FACILITATE WIRING BETWEEN THE DRIVER AND OPTICAL ARRAYS. DRIVERS ACCEPT AN INPUT OF 120-277V, 50/60HZ. 20KA SURGE PROTECTOR WITH "ON" LED OPERATIONAL INDICATOR AND END OF LIFE OPEN CIRCUIT PROTECTION FOR LUMINAIRE.

FINISH: POLYESTER POWDER COAT
(SPECIFY COLOR)

SCALE: 3/4"=1'-0"

Cree® XLamp® XP-E2 LEDs



PRODUCT DESCRIPTION

The XLamp® XP-E2 LED builds on the unprecedented performance of the original XP-E by increasing lumen output up to 20% while providing a single die LED point source for precise optical control. The XP-E2 LED shares the same footprint as the original XP-E, providing a seamless upgrade path to more lumens and/or greater efficiency while shortening the design cycle for existing XP customers.

XLamp XP-E2 LEDs are the ideal choice for lighting applications where high light output and maximum efficacy are required, such as LED retrofit lamps, outdoor, portable, indoor directional, emergency vehicle or architectural.

FEATURES

- Available in white, outdoor white, 80-CRI, 85-CRI, 90-CRI white, royal blue, blue, green, PC amber, amber, red-orange & red
- ANSI-compatible chromaticity bins
- White binned at 85 °C
- Maximum drive current: 1 A
- Low thermal resistance: as low as 5 °C/W
- Wide viewing angle: 110°-135°
- Unlimited floor life at ≤ 30 °C/85% RH
- Reflow solderable - JEDEC J-STD-020C compatible
- Electrically neutral thermal path
- RoHS- and REACH-compliant
- UL® recognized component (E349212)

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CHARACTERISTICS

Characteristics	Unit	Minimum	Typical	Maximum
Thermal resistance, junction to solder point - white, royal blue, blue	°C/W		9	
Thermal resistance, junction to solder point - green	°C/W		15	
Thermal resistance, junction to solder point - PC amber	°C/W		9	
Thermal resistance, junction to solder point - amber	°C/W		7	
Thermal resistance, junction to solder point - red-orange, red	°C/W		5	
Viewing angle (FWHM) - white	degrees		110	
Viewing angle (FWHM) - royal blue, blue, green	degrees		135	
Viewing angle (FWHM) - PC amber	degrees		110	
Viewing angle (FWHM) - amber, red-orange, red	degrees		130	
Temperature coefficient of voltage - white	mV/°C		-2.3	
Temperature coefficient of voltage - royal blue, blue	mV/°C		-3.3	
Temperature coefficient of voltage - green	mV/°C		-3.8	
Temperature coefficient of voltage - PC amber	mV/°C		-2.5	
Temperature coefficient of voltage - amber, red-orange, red	mV/°C		-1.8	
ESD withstand voltage (HBM per Mil-Std-883D)- white, royal blue, blue, green	V			8000
ESD classification (HBM per Mil-Std-883D) - PC amber, amber, red-orange, red			Class 2	
DC forward current	mA			1000
Reverse voltage	V			5
Forward voltage (@ 350 mA, 85 °C) - white	V		2.9	3.25
Forward voltage (@ 700 mA, 85 °C) - white			3.05	
Forward voltage (@ 1000 mA, 85 °C) - white			3.15	
Forward voltage (@ 350 mA, 25 °C) - royal blue, blue	V		3.1	3.5
Forward voltage (@ 1000 mA, 25 °C) - royal blue, blue	V		3.4	
Forward voltage (@ 350 mA, 25 °C) - green	V		3.2	3.8
Forward voltage (@ 1000 mA, 25 °C) - green	V		3.7	
Forward voltage (@ 350 mA, 25 °C) - PC amber	V		3.05	3.5
Forward voltage (@ 1000 mA, 25 °C) - PC amber	V		3.28	
Forward voltage (@ 350 mA, 25 °C) - amber, red-orange, red	V		2.2	2.6
Forward voltage (@ 1000 mA, 25 °C) - amber, red-orange, red	V		2.65	
LED junction temperature	°C			150

FLUX CHARACTERISTICS (T_J = 85 °C) - WHITE

The following table provides several base order codes for XLamp XP-E2 LEDs. It is important to note that the base order codes listed here are a subset of the total available order codes for the product family. For more order codes, as well as a complete description of the order-code nomenclature, please consult the XLamp XP Family LEDs Binning and Labeling document.

Color	CCT Range		Minimum Luminous Flux (lm) @ 350 mA			Calculated Minimum Luminous Flux (lm)** @ 85 °C		Order Code
	Min.	Max.	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C*	700 mA	1.0 A	
Cool White	5000 K	10,000 K	Q4	100	116	171	218	XPEBWT-L1-0000-00C51
			Q5	107	124	183	233	XPEBWT-L1-0000-00D51
			R2	114	132	195	249	XPEBWT-L1-0000-00E51
			R3	122	142	209	266	XPEBWT-L1-0000-00F51
			R4	130	152	223	284	XPEBWT-L1-0000-00G51
Outdoor White	4000 K	5300 K	Q4	100	116	171	218	XPEBWT-01-0000-00CE3
			Q5	107	124	183	233	XPEBWT-01-0000-00DE3
			R2	114	132	195	249	XPEBWT-01-0000-00EE3
			R3	122	142	209	266	XPEBWT-01-0000-00FE3
Neutral White	3700 K	5300 K	Q4	100	116	171	218	XPEBWT-L1-0000-00CE4
			Q5	107	124	183	233	XPEBWT-L1-0000-00DE4
			R2	114	132	195	249	XPEBWT-L1-0000-00EE4
80-CRI White	2200 K	4300 K	Q2	87.4	101	150	191	XPEBWT-H1-0000-00AE7
			Q3	93.9	109	161	205	XPEBWT-H1-0000-00BE7
Warm White	2200 K	3700 K	Q2	87.4	101	150	191	XPEBWT-L1-0000-00AE7
			Q3	93.9	109	161	205	XPEBWT-L1-0000-00BE7
			Q4	100	116	171	218	XPEBWT-L1-0000-00CE7
85-CRI White	2600 K	3200 K	P2	67.2	78.0	115	147	XPEBWT-P1-0000-007E7
			P3	73.9	85.7	127	161	XPEBWT-P1-0000-008E7
			P4	80.6	93.5	138	176	XPEBWT-P1-0000-009E7
			Q2	87.4	101	150	191	XPEBWT-P1-0000-00AE7
90-CRI White	2600 K	3200 K	P2	67.2	78.0	115	147	XPEBWT-U1-0000-007E7
			P3	73.9	85.7	127	161	XPEBWT-U1-0000-008E7
			P4	80.6	93.5	138	176	XPEBWT-U1-0000-009E7

Notes:

- Cree maintains a tolerance of ±7% on flux and power measurements, ±0.005 on chromaticity (CCx, CCy) measurements and ±2 on CRI measurements. See the Measurements section (page 14).
- Typical CRI for Cool White (5000 K – 10,000 K CCT) is 70.
- Typical CRI for Neutral White (3700 K – 5300 K CCT) is 75.
- Typical CRI for Outdoor White (4000 K - 5300 K CCT) is 70.
- Typical CRI for Warm White (2200 K – 3700 K CCT) is 80.
- Minimum CRI for 80-CRI White is 80.
- Minimum CRI for 85-CRI White is 85.
- Minimum CRI for 90-CRI White is 90.
- * Flux values @ 25 °C are calculated and for reference only.
- ** Calculated flux values at 700 mA and 1 A are for reference only.

FLUX CHARACTERISTICS ($T_j = 25\text{ }^\circ\text{C}$) - COLOR

The following tables provide several base order codes for XLamp XP-E2 color LEDs. It is important to note that the base order codes listed here are a subset of the total available order codes for the product family. For more order codes, as well as a complete description of the order-code nomenclature, please consult the XLamp XP Family LEDs Binning and Labeling document.

Color	Minimum Radiant Flux @ 350 mA		Dominant Wavelength Range				Order Codes,
	Group	Flux (mW)	Min.		Max.		
			Group	DWL (nm)	Group	DWL (nm)	
Royal Blue	30	450	D3	450	D5	465	XPEBRY-L1-0000-00J01
	31	475	D3	450	D5	465	XPEBRY-L1-0000-00K01
	32	500	D3	450	D5	465	XPEBRY-L1-0000-00L01
	33	525	D3	450	D5	465	XPEBRY-L1-0000-00M01
	34	550	D3	450	D5	465	XPEBRY-L1-0000-00N01
	35	575	D3	450	D5	465	XPEBRY-L1-0000-00P01
	36	600	D3	450	D5	465	XPEBRY-L1-0000-00Q01
	37	625	D3	450	D5	465	XPEBRY-L1-0000-00R01

Color	Dominant Wavelength Range				Minimum Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Blue	B3	465	B6	485	K2	30.6	XPEBBL-L1-0000-00Y01
					K3	35.2	XPEBBL-L1-0000-00Z01
					M2	39.8	XPEBBL-L1-0000-00201
					M3	45.7	XPEBBL-L1-0000-00301

Color	Dominant Wavelength Range				Minimum Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Green	G2	520	G4	535	Q2	87.4	XPEBGR-L1-0000-00A01
					Q3	93.9	XPEBGR-L1-0000-00B01
					Q4	100	XPEBGR-L1-0000-00C01
					Q5	107	XPEBGR-L1-0000-00D01
					R2	114	XPEBGR-L1-0000-00E01
					R3	122	XPEBGR-L1-0000-00F01
					R4	130	XPEBGR-L1-0000-00G01

- Note:
- Cree maintains a tolerance of $\pm 7\%$ on flux and power measurements, ± 0.005 on chromaticity (CCx, CCy) measurements and ± 2 on CRI measurements.

FLUX CHARACTERISTICS (T_j = 25 °C) - COLOR (CONTINUED)

Color	Color Bin	Minimum Luminous Flux (lm) @ 350 mA		Order Code
		Group	Flux (lm)	
PC Amber	Y2	Q2	87.4	XPEBPA-L1-0000-00A01
		Q3	93.9	XPEBPA-L1-0000-00B01
		Q4	100	XPEBPA-L1-0000-00C01
		Q5	107	XPEBPA-L1-0000-00D01

Color	Dominant Wavelength Range				Minimum Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Amber	A2	585	A3	595	N4	62.0	XPEBAM-L1-0000-00601
					P2	67.2	XPEBAM-L1-0000-00701
					P3	73.9	XPEBAM-L1-0000-00801
					P4	80.6	XPEBAM-L1-0000-00901

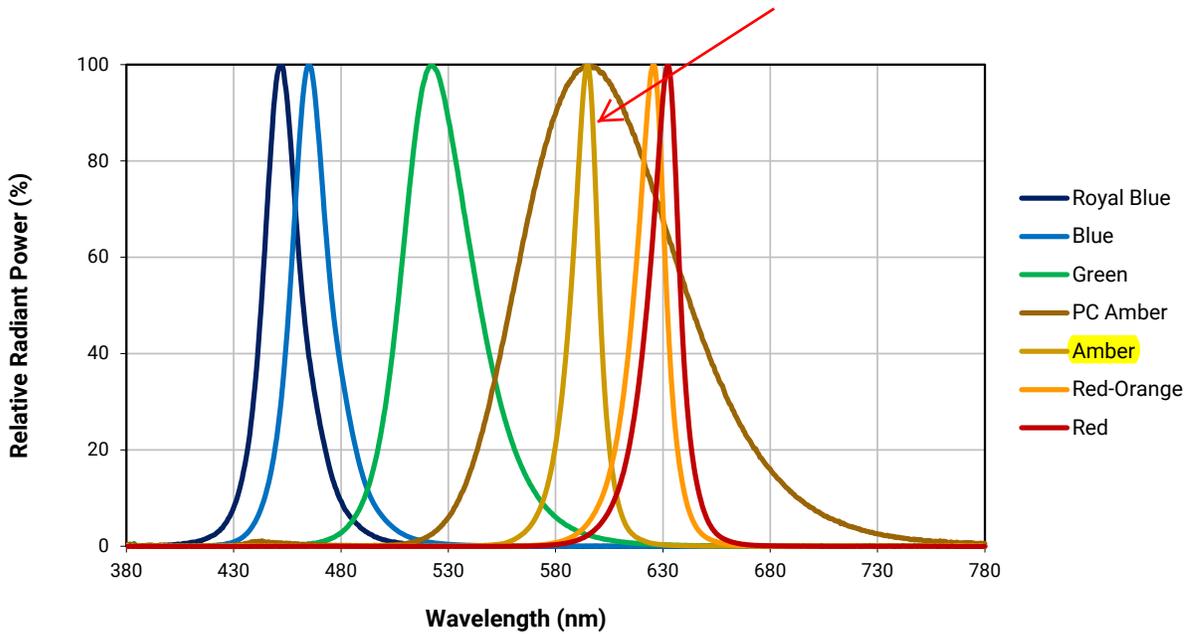
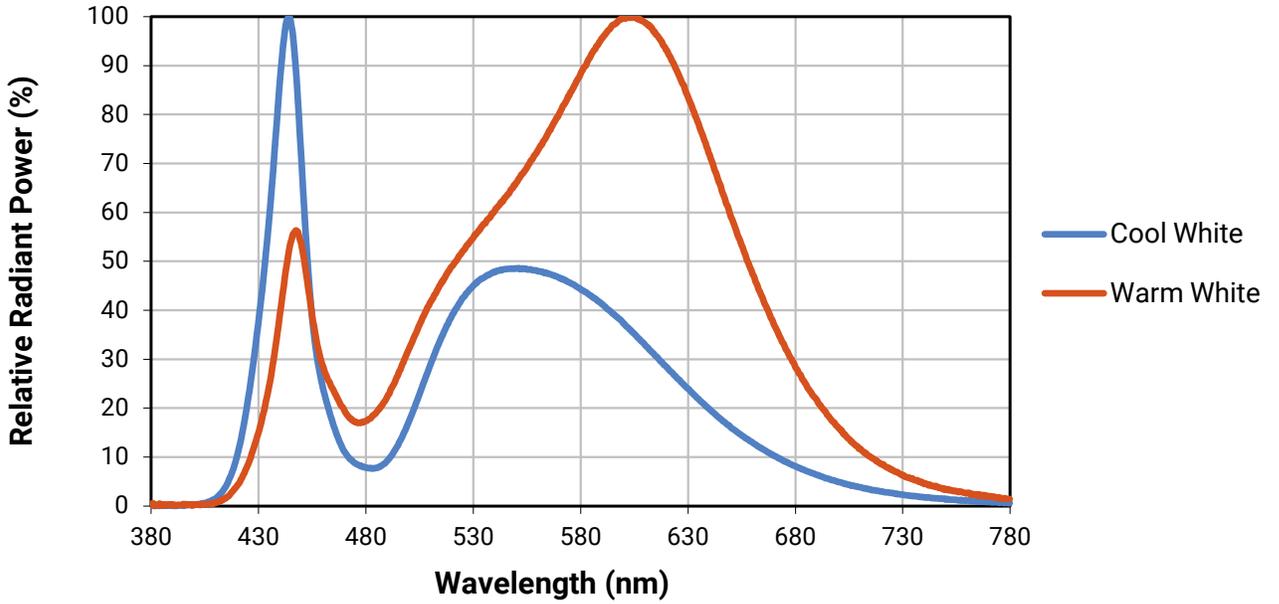
Color	Dominant Wavelength Range				Minimum Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Red-Orange	O3	610	O4	620	P2	67.2	XPEBRO-L1-0000-00701
					P3	73.9	XPEBRO-L1-0000-00801
					P4	80.6	XPEBRO-L1-0000-00901
					Q2	87.4	XPEBRO-L1-0000-00A01
					Q3	93.9	XPEBRO-L1-0000-00B01
					Q4	100	XPEBRO-L1-0000-00C01
					Q5	107	XPEBRO-L1-0000-00D01

Color	Dominant Wavelength Range				Minimum Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Red	R2	620	R3	630	N3	56.8	XPEBRD-L1-0000-00501
					N4	62.0	XPEBRD-L1-0000-00601
					P2	67.2	XPEBRD-L1-0000-00701
					P3	73.9	XPEBRD-L1-0000-00801
					P4	80.6	XPEBRD-L1-0000-00901

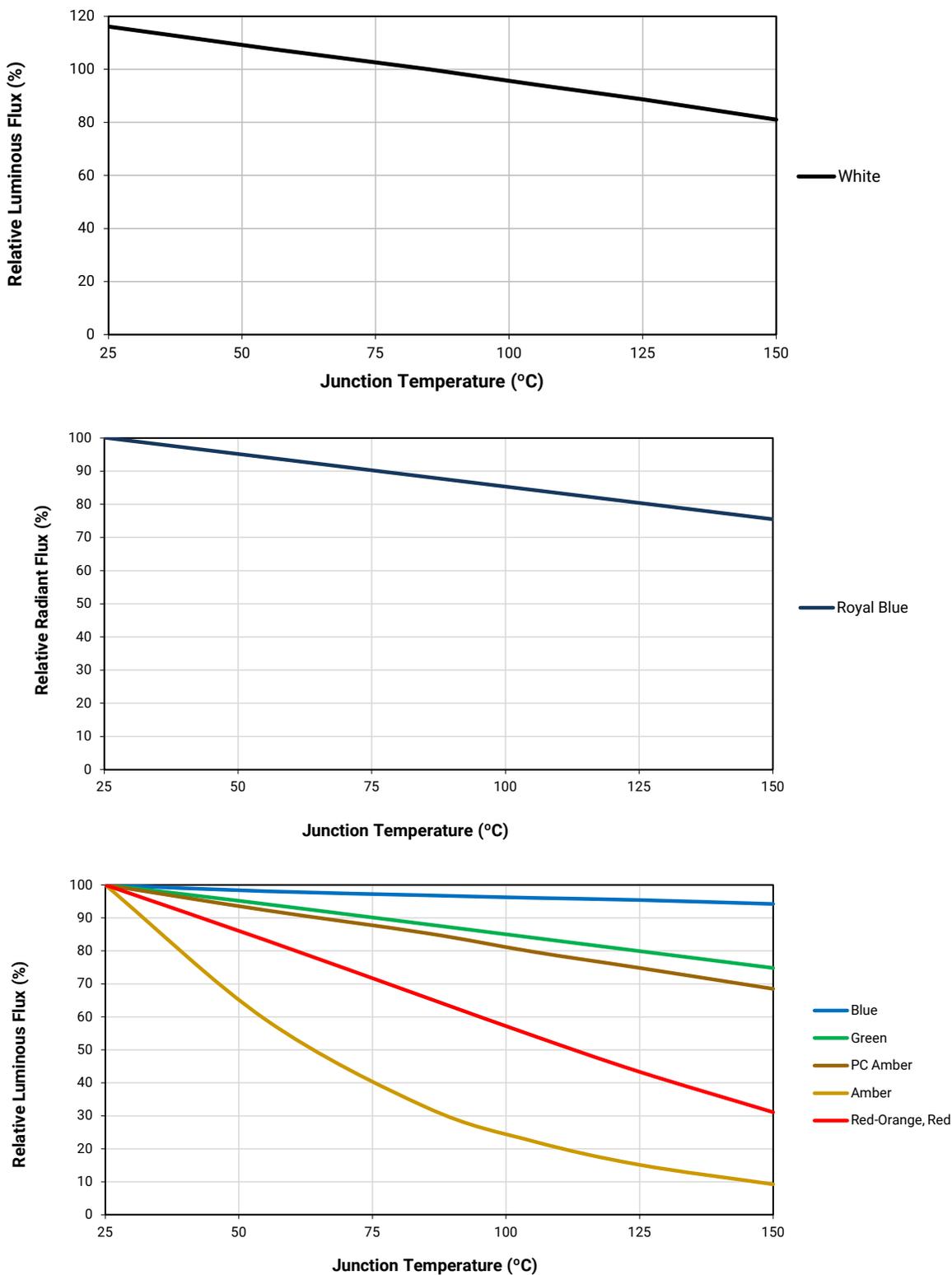
Note:

- Cree maintains a tolerance of ±7% on flux and power measurements, ±0.005 on chromaticity (CCx, CCy) measurements and ±2 on CRI measurements.

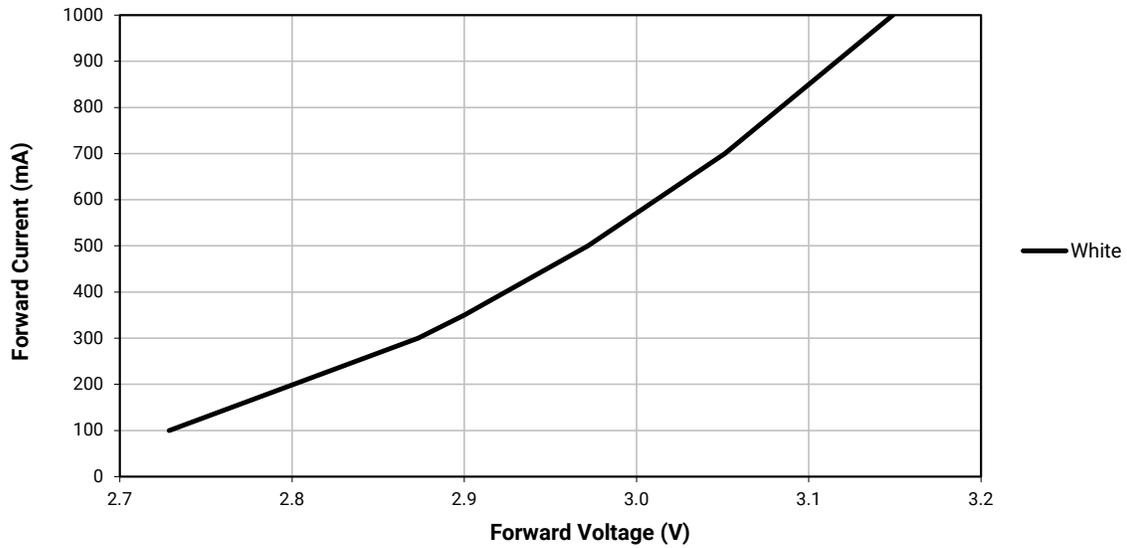
RELATIVE SPECTRAL POWER DISTRIBUTION



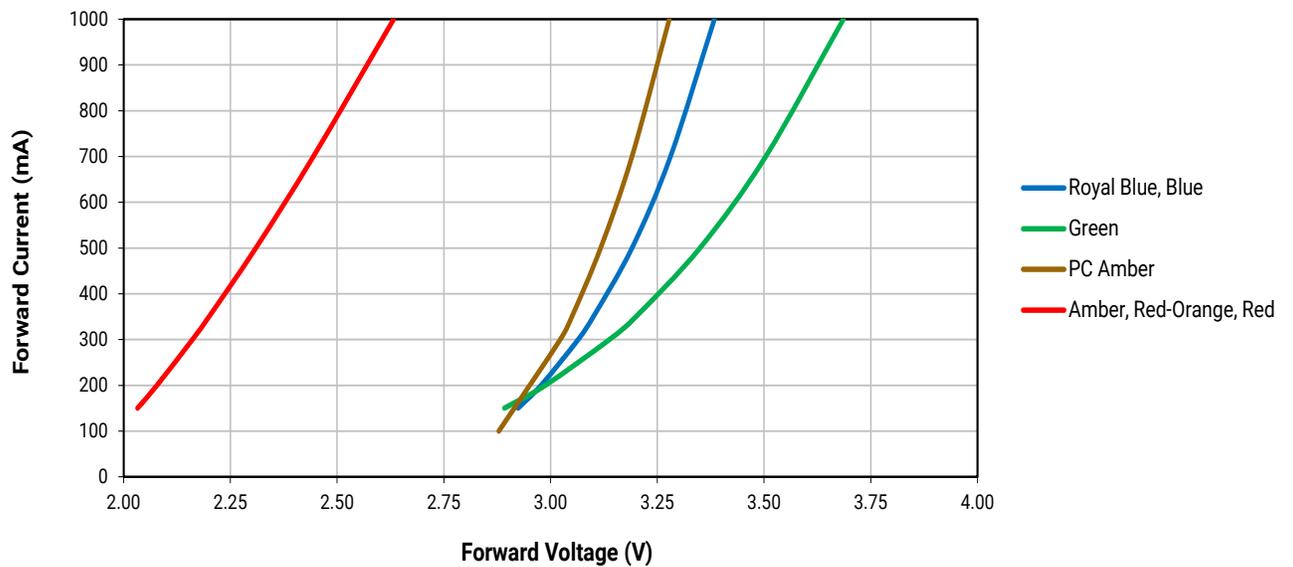
RELATIVE FLUX VS. JUNCTION TEMPERATURE ($I_F = 350$ mA)



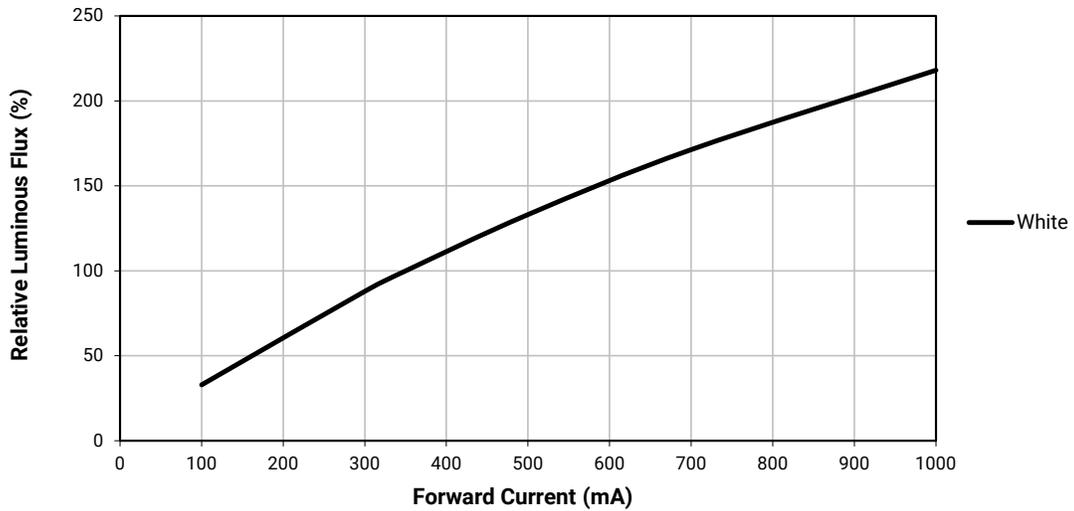
ELECTRICAL CHARACTERISTICS ($T_j = 85\text{ }^\circ\text{C}$) - WHITE



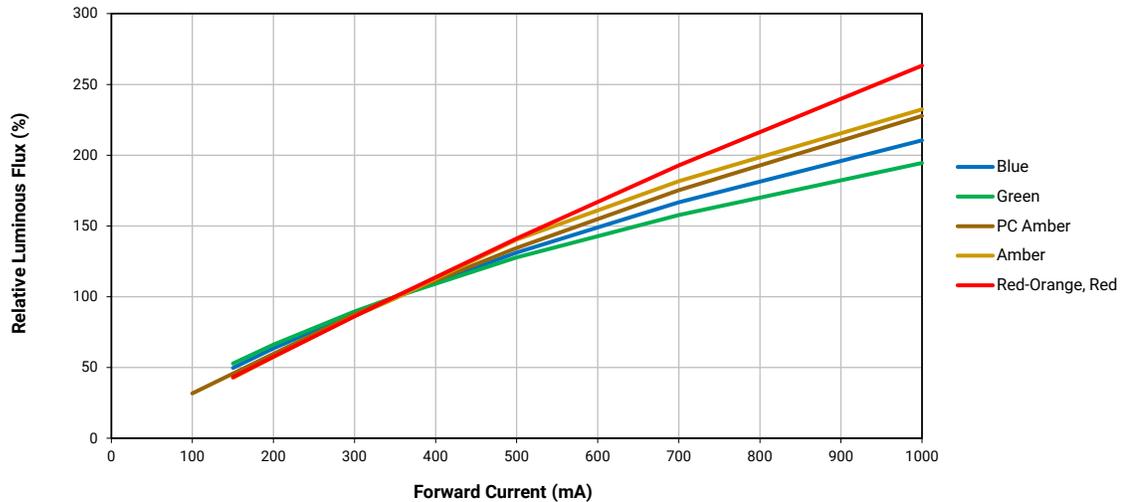
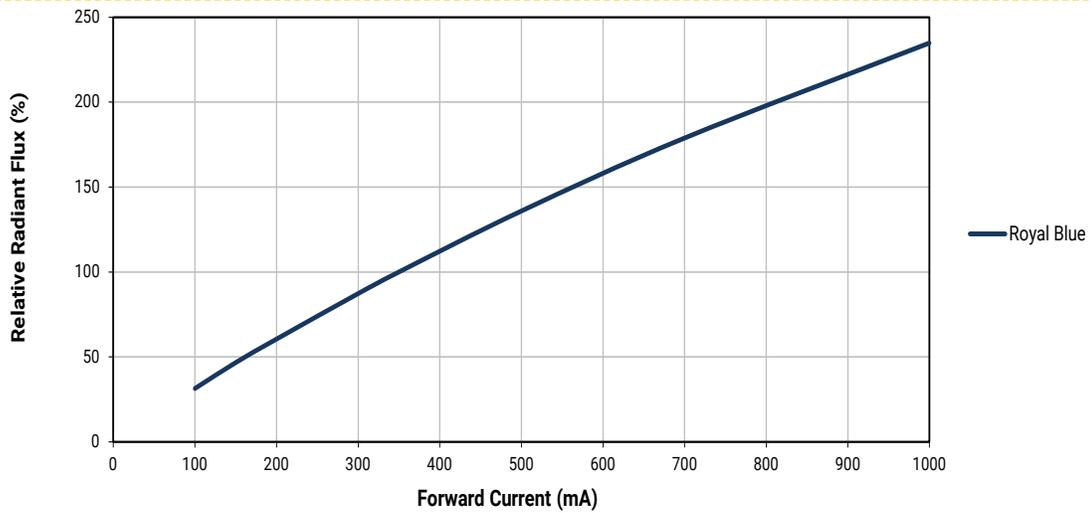
ELECTRICAL CHARACTERISTICS ($T_j = 25\text{ }^\circ\text{C}$) - COLOR



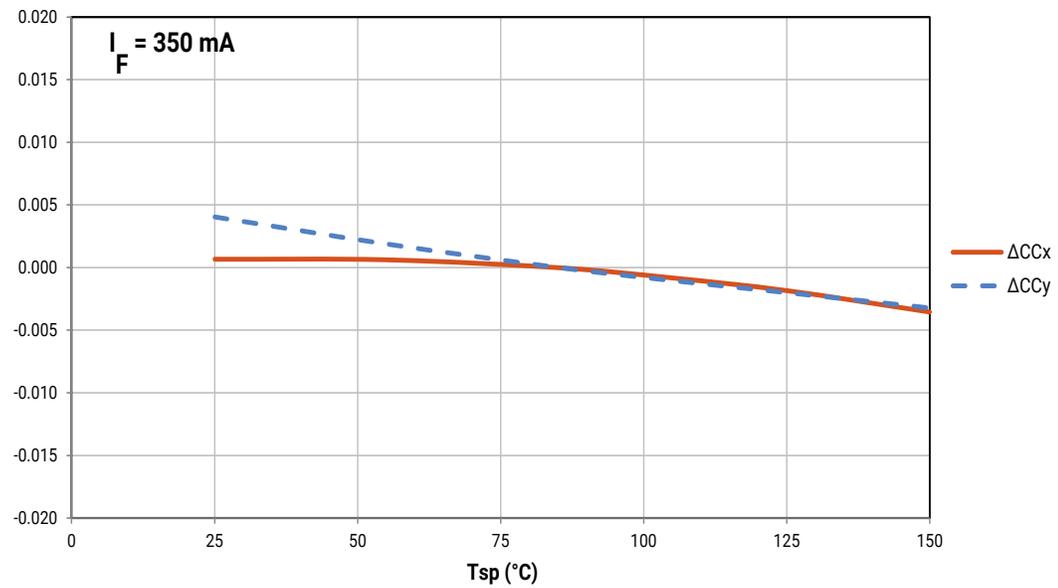
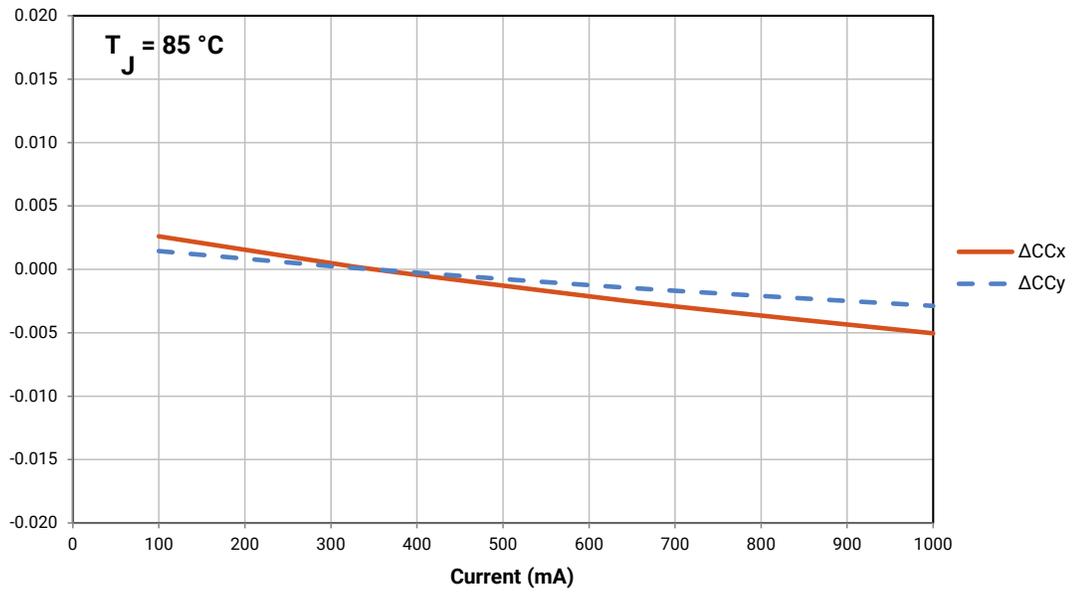
RELATIVE FLUX VS. CURRENT ($T_j = 85\text{ }^\circ\text{C}$) - WHITE



RELATIVE FLUX VS. CURRENT ($T_j = 25\text{ }^\circ\text{C}$) - COLOR

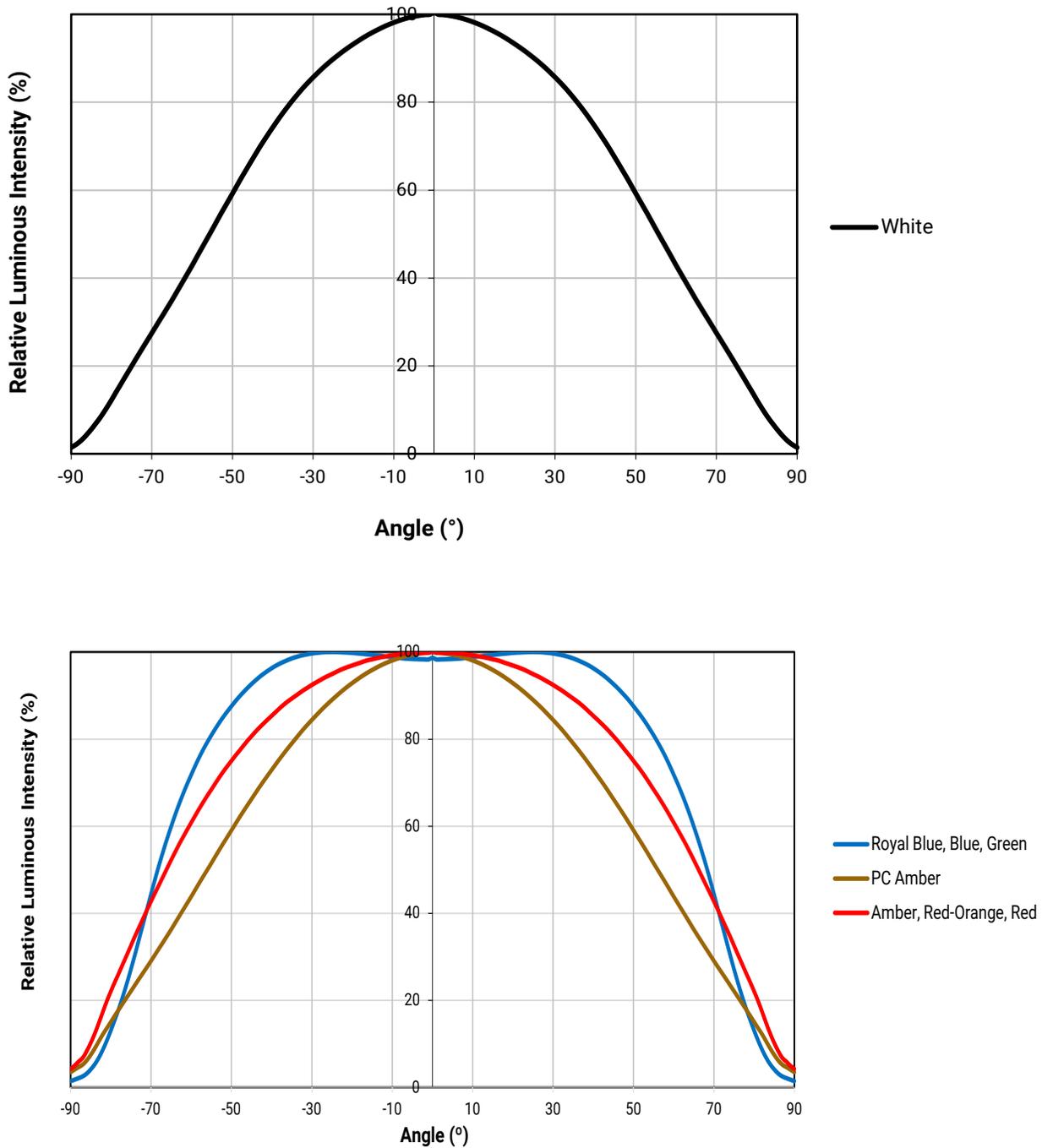


RELATIVE CHROMATICITY VS. CURRENT AND TEMPERATURE - WARM WHITE*



* Warm White XLamp XP-E2 LEDs have a typical CRI of 80.

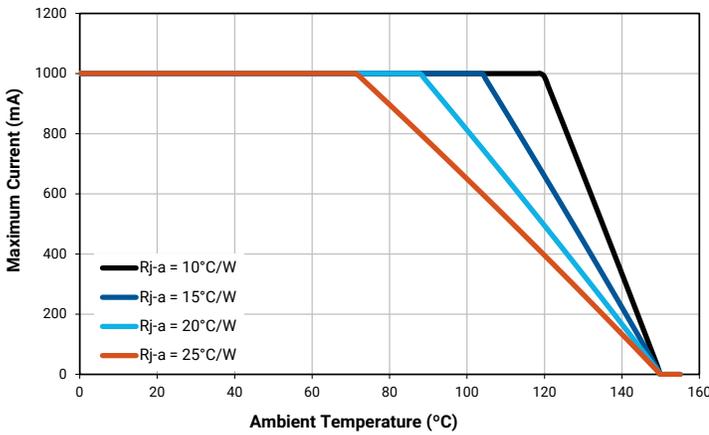
TYPICAL SPATIAL DISTRIBUTION



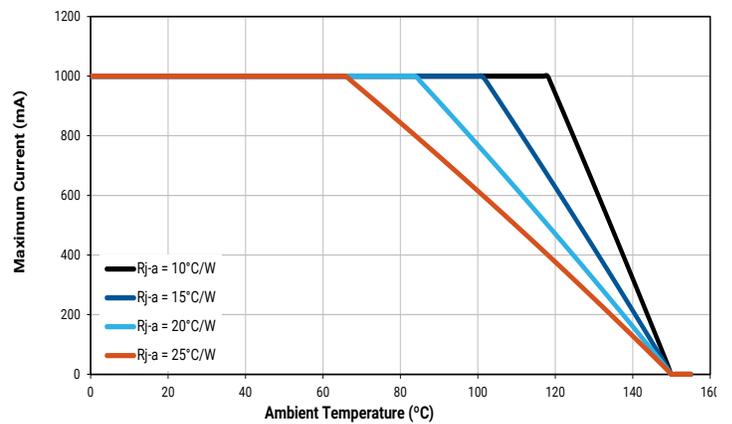
THERMAL DESIGN

The maximum forward current is determined by the thermal resistance between the LED junction and ambient. It is crucial for the end product to be designed in a manner that minimizes the thermal resistance from the solder point to ambient in order to optimize lamp life and optical characteristics.

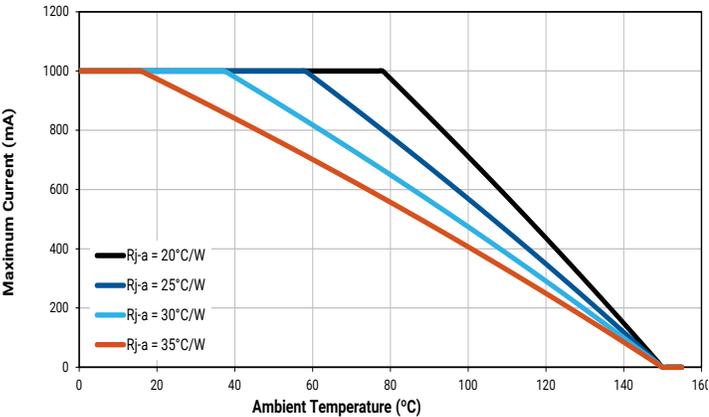
White



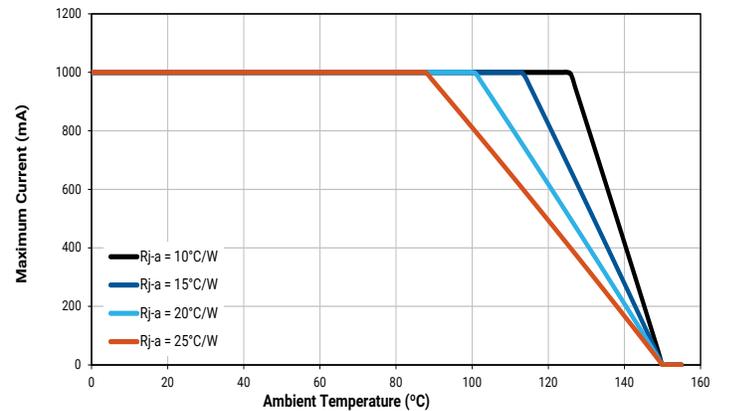
Royal Blue, Blue



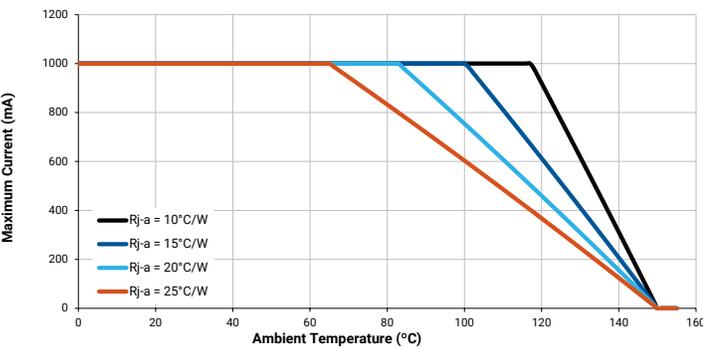
Green



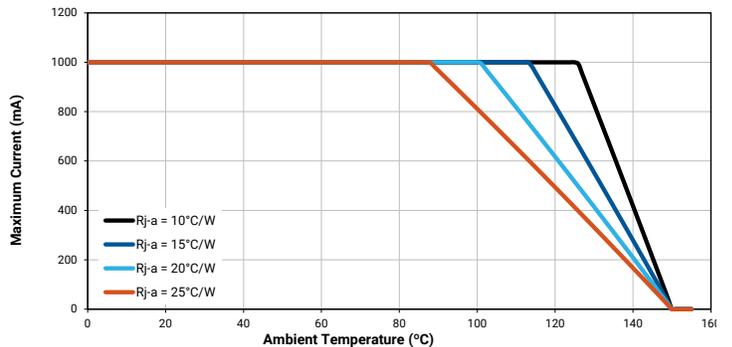
Amber



PC Amber



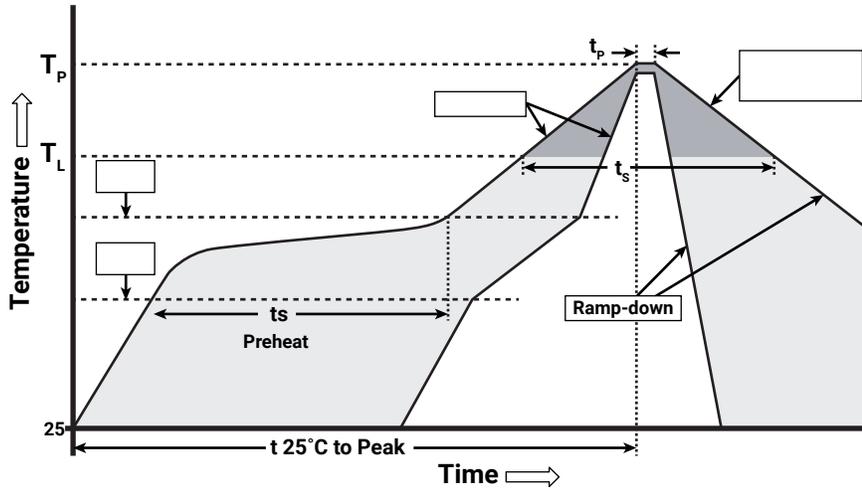
Red-Orange, Red



REFLOW SOLDERING CHARACTERISTICS

In testing, Cree has found XLamp XP-E2 LEDs to be compatible with JEDEC J-STD-020C, using the parameters listed below. As a general guideline, Cree recommends that users follow the recommended soldering profile provided by the manufacturer of the solder paste used.

Note that this general guideline may not apply to all PCB designs and configurations of reflow soldering equipment.



IPC/JEDEC J-STD-020C

Profile Feature	Lead-Free Solder
Average Ramp-Up Rate ($T_{s_{max}}$ to T_p)	1.2 °C/second
Preheat: Temperature Min ($T_{s_{min}}$)	120 °C
Preheat: Temperature Max ($T_{s_{max}}$)	170 °C
Preheat: Time ($t_{s_{min}}$ to $t_{s_{max}}$)	65-150 seconds
Time Maintained Above: Temperature (T_L)	217 °C
Time Maintained Above: Time (t_L)	45-90 seconds
Peak/Classification Temperature (T_p)	235 - 245 °C
Time Within 5 °C of Actual Peak Temperature (t_p)	20-40 seconds
Ramp-Down Rate	1 - 6 °C/second
Time 25 °C to Peak Temperature	4 minutes max.

Note: All temperatures refer to topside of the package, measured on the package body surface.

NOTES

Measurements

The luminous flux, radiant power, chromaticity and CRI measurements in this document are binning specifications only and solely represent product measurements as of the date of shipment. These measurements will change over time based on a number of factors that are not within Cree's control and are not intended or provided as operational specifications for the products. Calculated values are provided for informational purposes only and are not intended as specifications.

Pre-Release Qualification Testing

Please read the [LED Reliability Overview](#) for details of the qualification process Cree applies to ensure long-term reliability for XLamp LEDs and details of Cree's pre-release qualification testing for XLamp LEDs.

Lumen Maintenance

Cree now uses standardized IES LM-80-08 and TM-21-11 methods for collecting long-term data and extrapolating LED lumen maintenance. For information on the specific LM-80 data sets available for this LED, refer to the [LM-80 results document](#).

Please read the [Long-Term Lumen Maintenance application note](#) for more details on Cree's lumen maintenance testing and forecasting. Please read the [Thermal Management application note](#) for details on how thermal design, ambient temperature, and drive current affect the LED junction temperature.

Moisture Sensitivity

Cree recommends keeping XLamp LEDs in the provided, resealable moisture-barrier packaging (MBP) until immediately prior to soldering. Unopened MBPs that contain XLamp LEDs do not need special storage for moisture sensitivity.

Once the MBP is opened, XLamp XP-E2 LEDs may be stored as MSL 1 per JEDEC J-STD-033, meaning they have unlimited floor life in conditions of ≤ 30 °C/85% relative humidity (RH). Regardless of the storage condition, Cree recommends sealing any unsoldered LEDs in the original MBP.

RoHS Compliance

The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2011/65/EC (RoHS2), as implemented January 2, 2013. RoHS Declarations for this product can be obtained from your Cree representative or from the Product Documentation sections of www.cree.com.

REACH Compliance

REACH substances of very high concern (SVHCs) information is available for this product. Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, please contact a Cree representative to insure you get the most up-to-date REACH SVHC Declaration. REACH banned substance information (REACH Article 67) is also available upon request.

NOTES - CONTINUED

UL® Recognized Component

Level 4 enclosure consideration. The LED package or a portion thereof has been investigated as a fire and electrical enclosure per ANSI/UL 8750.

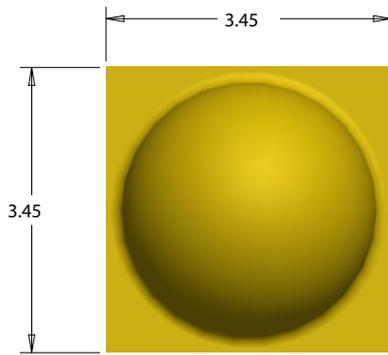
Vision Advisory

WARNING: Do not look at exposed lamp in operation. Eye injury can result. For more information about LEDs and eye safety, please refer to the [LED Eye Safety application note](#).

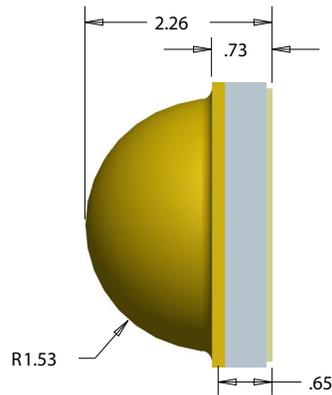
MECHANICAL DIMENSIONS

Thermal vias, if present, are not shown on these drawings.

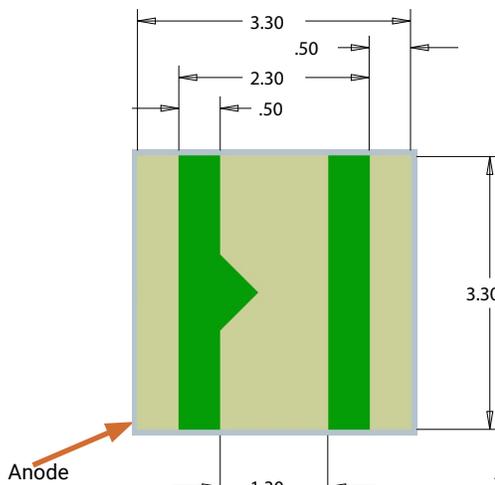
All measurements are ± 0.13 mm unless otherwise indicated.



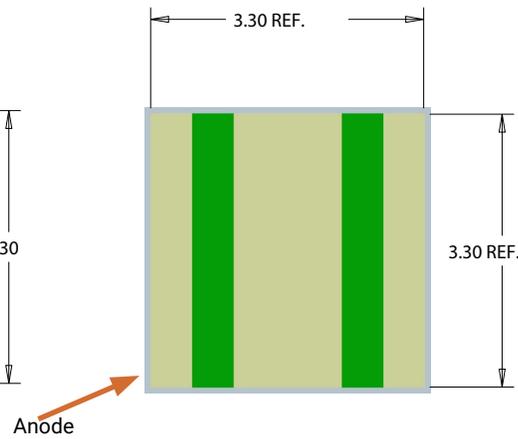
Top View



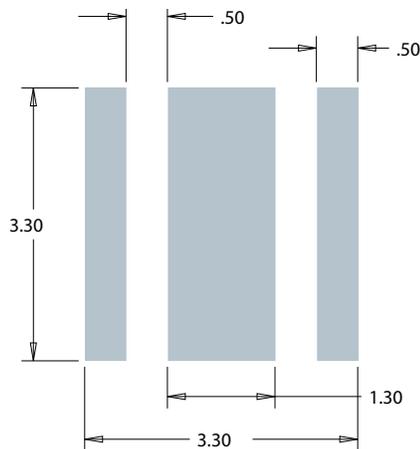
Side View



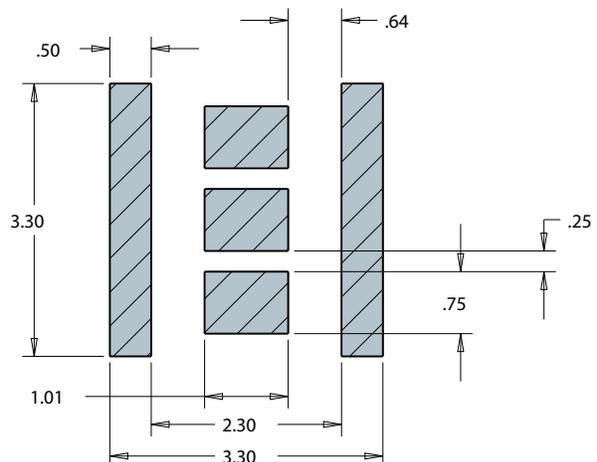
Bottom View



Alternate Bottom View



Recommended PCB Solder Pad

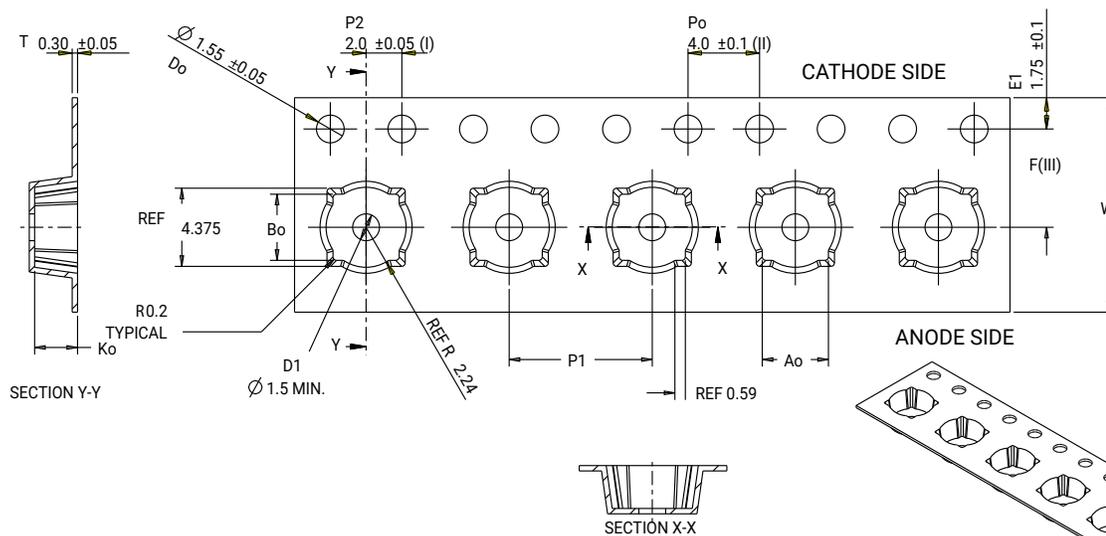


**Recommended Stencil Pattern
(Hatched Area is Open)**

TAPE AND REEL

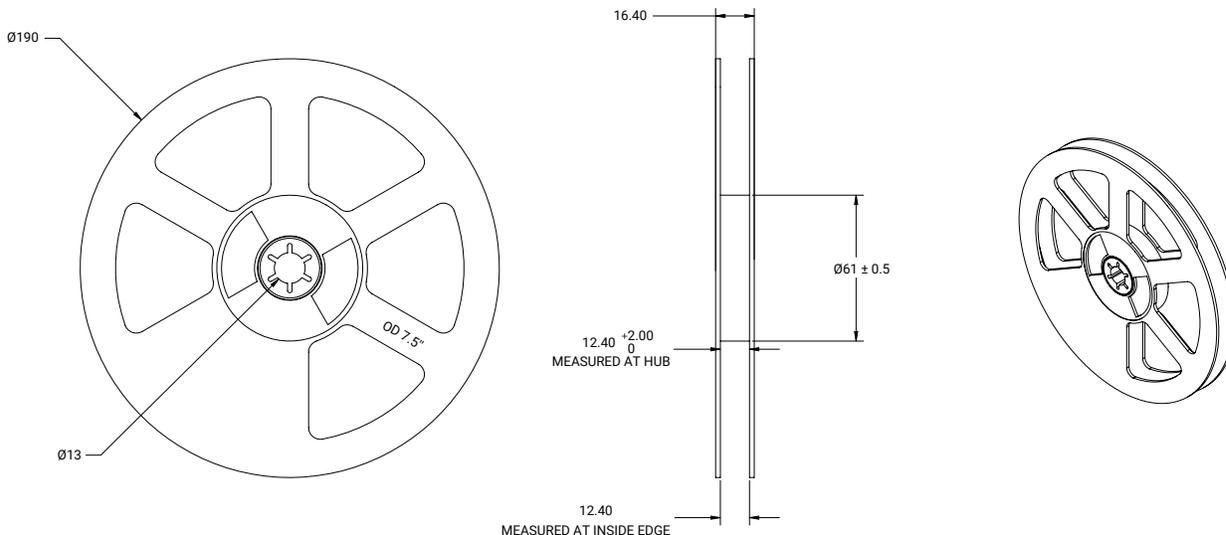
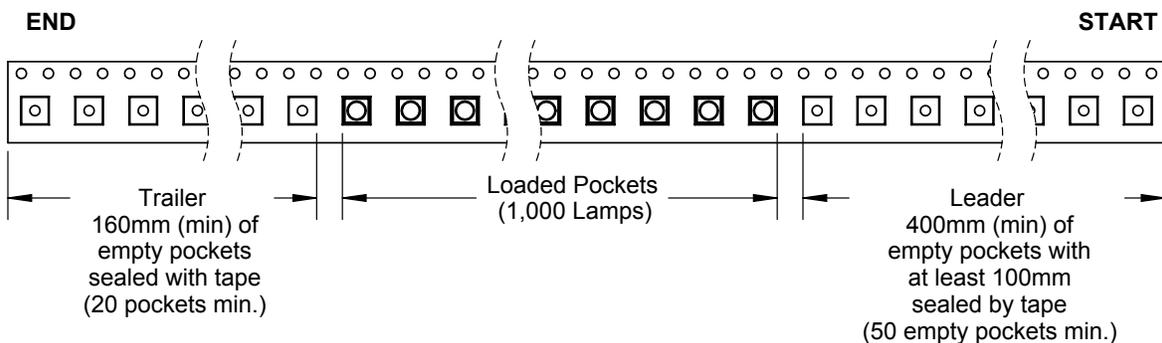
All Cree carrier tapes conform to EIA-481D, Automated Component Handling Systems Standard.

All dimensions in mm.



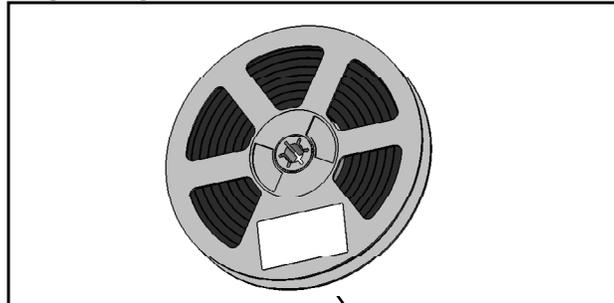
Ao	3.70	+/- 0.1
Bo	3.70	+/- 0.1
Ko	2.40	+0.0/-0.1
F	5.50	+/- 0.05
P 1	8.00	+/- 0.1
W	12.00	+0.3/-0.1

- (I) Measured from centerline of sprocket hole to centerline of pocket.
- (II) Cumulative tolerance of 10 sprocket holes is ± 0.20.
- (III) Measured from centerline of sprocket hole to centerline of pocket.
- (IV) Other material available.



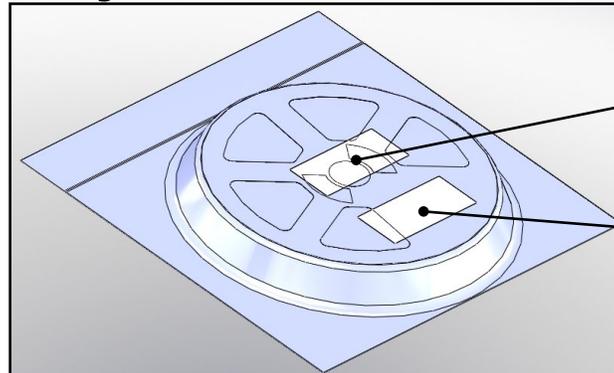
PACKAGING

Unpackaged Reel



Label with Cree Bin Code,
Quantity, Reel ID

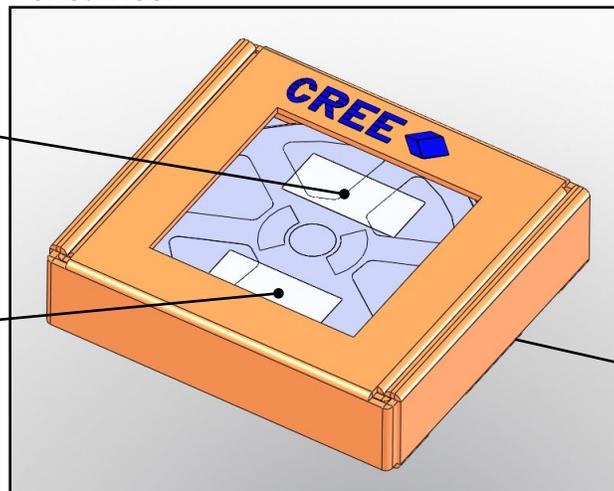
Packaged Reel



Label with Cree Order Code,
Quantity, Reel ID, PO #

Label with Cree Bin Code,
Quantity, Reel ID

Boxed Reel



Label with Cree Order Code,
Quantity, Reel ID, PO #

Label with Cree Bin Code,
Quantity, Reel ID

Patent Label
(on bottom of box)

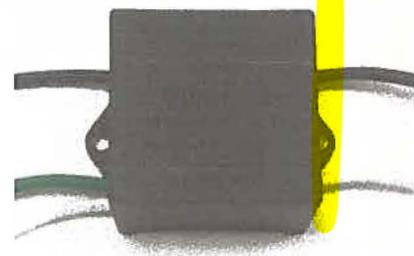
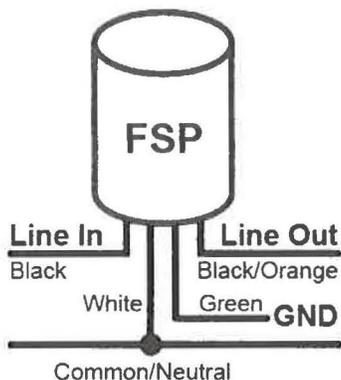
Installation Instructions – Surge Protector for LED Luminaires (120V – 277V)

Surge protectors serve to mitigate current and voltage “spikes” due to a variety of causes external to the lighting fixtures. These “spikes” can damage solid state components, and the surge protector will react quicker than fusing to shunt such “spikes”.

As the surge protector is rated according to the number of and level of spike strikes (refer to the chart below), it is a perishable item that will need periodic replacement. It is therefore **recommended that the surge protector should be mounted in an accessible location** such as at the pole hand hole, at the pole top (below the top cap), or if necessary inside the luminaire electrical compartment.

The surge protector will open circuit when end-of-life is reached turning off voltage to the fixture. The green LED located at the top of the protector is illuminated when it is functioning and will go out at end-of-life (for non-LED SPD’s, check line voltage on both sides of the surge protector). **Installation of the surge protector is required to insure activation of fixture warranty.**

Wiring



Alternate SPD w/o LED indicator

- **7A Maximum load** (Multiple fixtures up to a total current load of 7A may be wired to one surge protector)

Part Number	Mains Voltage	Continuous Max Voltage Rating		Max Clamping Voltage 8/20 μS @ 20kA	UL1449	UL935/ UL1029
		AC	DC			
FSP3-277-20KA	100-277V	320	420	1600	•	•

Pulse rating (8 x 20 μSec)	
Strikes	Surge
1	20,000 A
2	15,000 A
15	10,000 A
120	3,000 A

SHIPS WITH RZR
 LUMINAIRE AT NO
 ADDITIONAL COST WHEN
 USING 20 + LED ARRAY

Okaloosa County Turtle Lighting Retrofits - Opinion of Probable Construction Costs

Wednesday, December 19, 2018

ISLAND PIER (BUILDING AND PIER MOUNTED LIGHTING - REUSE EXISTING CIRCUITS)				
Item Description	Cost	Unit	Qty	Total
Luminaire BmA/BmAe	\$ 630.00	EA	11	\$ 6,930.00
Luminaire BmD	\$ 900.00	EA	2	\$ 1,800.00
Luminaire BmE	\$ 900.00	EA	9	\$ 8,100.00
Luminaire BmF	\$ 360.00	EA	3	\$ 1,080.00
Luminaire BmG	\$ 600.00	EA	2	\$ 1,200.00
Luminaire BmI	\$ 50.00	LF	10	\$ 500.00
Panelboard Mounted Surge Protection	\$ 700.00	EA	0	\$ -
Outlet Boxes & Misc Hardware	\$ 35.00	EA	24	\$ 840.00
Sub-total				\$ 20,450.00
5% Contingency				\$ 1,022.50
Total				\$ 21,472.50

ISLAND PIER PARKING LOT (NEW SITE LIGHTING CIRCUITS)				
Item Description	Cost	Unit	Qty	Total
Luminaire S4L And SWT SPD	\$ 1,500.00	EA	7	\$ 10,500.00
Luminaire D4L And SWT SPD	\$ 2,500.00	EA	4	\$ 10,000.00
Poles	\$ 1,350.00	EA	11	\$ 14,850.00
Site Electrical Demolition and Disposal	\$ 6,500.00	EA	1	\$ 6,500.00
Foundations	\$ 1,500.00	EA	11	\$ 16,500.00
1" PVC Conduit; Trenching; Backfill; Paving	\$ 25.00	LF	1400	\$ 35,000.00
#8 AWG Aluminum Conductor	\$ 1.00	LF	4500	\$ 4,500.00
Sub-total				\$ 97,850.00
5% Contingency				\$ 4,892.50
Total				\$ 102,742.50

WAYSIDE/BOARDWALK PARKING LOT (NEW SITE LIGHTING CIRCUITS)				
Item Description	Cost	Unit	Qty	Total
Luminaire S2H And SWT SPD	\$ 1,600.00	EA	4	\$ 6,400.00
Luminaire D5H And SWT SPD	\$ 2,600.00	EA	18	\$ 46,800.00
Luminaire D4L And SWT SPD	\$ 2,600.00	EA	17	\$ 44,200.00
Luminaire S4H And SWT SPD	\$ 1,600.00	EA	9	\$ 14,400.00
Luminaire S2L And SWT SPD	\$ 1,600.00	EA	5	\$ 8,000.00
Luminaire S4L And SWT SPD	\$ 1,600.00	EA	0	\$ -
Site Electrical Demolition and Disposal	\$ 24,500.00	EA	1	\$ 24,500.00
Poles	\$ 1,350.00	EA	64	\$ 86,400.00
Foundations	\$ 1,500.00	EA	64	\$ 96,000.00
1" PVC Conduit; Trenching; Backfill; Paving	\$ 25.00	LF	7900	\$ 197,500.00
#8 AWG Aluminum Conductor	\$ 1.00	LF	23000	\$ 23,000.00
Sub-total				\$ 547,200.00
5% Contingency				\$ 27,360.00
Total				\$ 574,560.00

WAYSIDE/BOARDWALK (BUILDING AND PAVILION MOUNTED LIGHTING - REUSE EXISTING CIRCUITS)				
Item Description	Cost	Unit	Qty	Total
Luminaire BmA/BmAe	\$ 630.00	EA	11	\$ 6,930.00
Luminaire BmD	\$ 900.00	EA	0	\$ -
Luminaire BmF	\$ 360.00	EA	25	\$ 9,000.00
Luminaire BmG	\$ 600.00	EA	1	\$ 600.00
Luminaire BmH	\$ 550.00	EA	0	\$ -
Luminaire BmI	\$ 1,500.00	EA	0	\$ -
Relamp and Repair Fixtures	\$ 100.00	EA	15	\$ 1,500.00
Luminaires BmJ	\$ 300.00	EA	2	\$ 600.00
Panelboard Mounted Surge Protection	\$ 700.00	EA	0	\$ -
Outlet Boxes & Misc Hardware	\$ 35.00	EA	42	\$ 1,470.00
1" EMT Conduit	\$ 5.00	LF	1000	\$ 5,000.00
#10 AWG Copper Conductor	\$ 0.75	LF	3000	\$ 2,250.00
Sub-total				\$ 27,350.00
5% Contingency				\$ 1,367.50
Total				\$ 28,717.50

JAMES LEE PARK (BUILDING AND PAVILION MOUNTED LIGHTING - REUSE EXISTING CIRCUITS)				
Item Description	Cost	Unit	Qty	Total
Luminaire BmA/BmAe	\$ 630.00	EA	2	\$ 1,260.00
Luminaire BmB	\$ 2,250.00	EA	1	\$ 2,250.00
Luminaire BmF	\$ 360.00	EA	20	\$ 7,200.00
Luminaire BmG	\$ 600.00	EA	2	\$ 1,200.00
Luminaire BmH	\$ 400.00	EA	0	\$ -
Luminaire BmJ	\$ 300.00	EA	5	\$ 1,500.00
Relamp and Repair Fixtures	\$ 100.00	EA	22	\$ 2,200.00
Panelboard Mounted Surge Protection	\$ 700.00	EA	3	\$ 2,100.00
Outlet Boxes & Misc Hardware	\$ 25.00	EA	24	\$ 600.00
1" EMT Conduit	\$ 5.00	LF	750	\$ 3,750.00
#10 AWG Copper Conductor	\$ 0.75	LF	1500	\$ 1,125.00
Sub-total				\$ 23,185.00
5% Contingency				\$ 1,159.25
Total				\$ 24,344.25

JAMES LEE PARK PARKING LOT (NEW SITE LIGHTING CIRCUITS)				
Item Description	Cost	Unit	Qty	Total
Luminaire S4L And SWT SPD	\$ 1,500.00	EA	23	\$ 34,500.00
Poles	\$ 1,350.00	EA	23	\$ 31,050.00
Foundations	\$ 1,500.00	EA	23	\$ 34,500.00
Lighted Bollards	\$ 1,400.00	EA	0	\$ -
1" PVC Conduit; Trenching; Backfill	\$ 8.00	LF	3100	\$ 24,800.00
#6 AWG Aluminum Conductor	\$ 1.75	LF	9300	\$ 16,275.00
Sub-total				\$ 141,125.00
5% Contingency				\$ 7,056.25
Total				\$ 148,181.25

BEASLEY PARK (BUILDING AND PAVILION MOUNTED LIGHTING - REUSE MOST EXISTING CIRCUITS - NEW TIMER CIRCUITS)				
Item Description	Cost	Unit	Qty	Total
Luminaire BmA/BmAe	\$ 630.00	EA	0	\$ -
Luminaire BmB	\$ 2,250.00	EA	6	\$ 13,500.00
Luminaire BmF	\$ 360.00	EA	20	\$ 7,200.00
Panelboard Mounted Surge Protection	\$ 700.00	EA	2	\$ 1,400.00
Outlet Boxes & Misc Hardware	\$ 25.00	EA	26	\$ 650.00
1" EMT Conduit	\$ 1.20	LF	1000	\$ 1,200.00
#10 AWG Copper Conductor	\$ 0.75	LF	3000	\$ 2,250.00
Sub-total				\$ 26,200.00
5% Contingency				\$ 1,310.00
Total				\$ 27,510.00

Total for Buildings; Pier; and Parking Lot Lighting

\$ 927,528.00