



FLORIDA DEPARTMENT OF Environmental Protection

South District
Post Office Box 2549
Fort Myers, Florida 33902-2549
SouthDistrict@FloridaDEP.gov

Rick Scott
Governor
Carlos Lopez-Cantera
Lt. Governor
Noah Valenstein
Secretary

Permittee/Authorized Entity:
Florida Power & Light Company
Michael Sole, Vice President
700 Universe Blvd.
Juno Beach, FL. 33408
Michael.Sole@fpl.com

FPL Babcock Ranch Solar Energy Center 2

Authorized Agent:
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Sherri Swanson
2601 Cattleman Rd.
Sarasota, Fl. 34232
sherri.swanson@hdrinc.com

Environmental Resource Permit
State-owned Submerged Lands Authorization –Not Applicable

**U.S. Army Corps of Engineers Authorization – Separate Corps Authorization
Required**

Permit No.: 0368560-001 EI

Permit Issuance Date: December 13, 2018
Permit Construction Phase Expiration Date: December 13, 2023

Environmental Resource Permit

Permittee: Florida Power & Light Company
Permit No: 0368560-001 EI

PROJECT LOCATION

The activities authorized by this permit are located 20 miles East of Punta Gorda, Fl. (Parcel Ids 41263220003, 41263330002, and 42260430003), North and South of Tuckers Grade Rd. and approximately 2-miles East of SR 31 in Sections 32, 33 Township 41South, Range 26 East and Sections 4, 5 Township 42 South, Range 26 East in Charlotte County.

PROJECT DESCRIPTION

The project is to impact approximately 0.68 acres of agricultural ditches to construct stormwater management facilities to serve 436 acres of the entire 480-acre site to support a proposed solar energy center site, which includes a proposed 2.08-acre collector yard located within the 480-acre site. The required stormwater treatment and attenuation volume will be retained by berms and perimeter ditches.

AUTHORIZATIONS

001 - FPL Charlotte County 436-acre Solar Energy Center

Environmental Resource Permit

The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).

Sovereignty Submerged Lands Authorization

As staff to the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), the Department has determined the activity is not on submerged lands owned by the State of Florida. Therefore, your project is not subject to the requirements of Chapter 253, F.S., or Rule 18-21, F.A.C.

Federal Authorization

Your proposed activity as outlined on your application and attached drawings **does not qualify** for Federal authorization pursuant to the State Programmatic General Permit and a **SEPARATE permit** or authorization **may be required** from the Corps. A copy of your permit application has been forwarded to the Corps for their review. The Corps will issue their authorization directly to you or contact you if additional information is needed. If you have not heard from the Corps within 30 days from the date your application was received at the local FDEP Office, contact the Corps at Jacksonville ACOE Regulatory office at 904-232-1177 or Corpsjaxreg-FPL@usace.army.mil, for status and further information. **Failure to obtain Corps authorization prior to construction could subject you to federal enforcement action by that agency.**

Authority for review - an agreement with the USACOE entitled “Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection, or Duly Authorized Designee, State Programmatic General Permit”, Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Coastal Zone Management

Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

Water Quality Certification

This permit also constitutes a water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. 1341

Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

PERMIT

The activities described must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit, as described.

SPECIFIC CONDITIONS – ADMINISTRATIVE

1. All required submittals, such as certifications, monitoring reports, notifications, etc., shall be submitted to the Florida Department of Environmental Protection, South District Office, Submerged Lands and Environmental Resource Permitting, P.O. Box 2549, Fort Myers, FL 33902-2549 or via e-mail to FTMERP_Compliance@dep.state.fl.us . All submittals shall include the project name and indicated permit number when referring to this project.

Note: In the event of an emergency, the Permittee should contact the Department by calling (800)320-0519. During normal business hours, the permittee should call (239)344-5600.

SPECIFIC CONDITIONS - PRIOR TO ANY CONSTRUCTION

2. The Notice of Intent for the NPDES Construction General Permit may be used to satisfy the notice requirement in General Condition 4, in lieu of Form 62-330.350(1).

3. Construction and operation of the project shall comply with applicable State Water Quality Standards, namely:

Rule 62-302.500, F.A.C. – Surface Waters: Minimum Criteria, General Criteria; and
Rule 62-302.530, F.A.C. – Table: Surface Water Quality Criteria - Class III Waters.

4. Prior to the commencement of construction, staked filter cloth shall be positioned at the edge of the permitted fill slopes to contain turbid runoff and erosion. All filter cloth shall be maintained in place until all side slopes are completely stabilized by sod, seed, or affirmative plantings. The side slope stabilization shall be completed as soon as possible, but shall occur no later than 72 hours of attaining final grade, and any other time as necessary to prevent erosion, siltation and turbid run-off into Waters of the State, including wetlands.
5. Those portions of the applicant's property that are in wetlands as defined in Chapter 62-340, F.A.C., shall be left in their natural state. **Wetlands boundaries shall be staked with filter cloth.** These areas shall not be used for parking, equipment storage, building supply storage or as a staging area. These areas shall not be filled, sodded, or cleared without prior written consent from the Department in the form of an Environmental Resource Permit or a modification of this permit.
6. The permittee shall implement erosion control measures as shown on C-2, C-15 and C-16 to manage and control disturbed sediment and prevent adverse effects to wetlands.

SPECIFIC CONDITIONS – MONITORING/REPORTING REQUIREMENTS

7. The operation and maintenance entity shall inspect the stormwater treatment system after storm events with greater than one inch of rainfall.
8. Within 30 days of any failure of stormwater treatment system, ponding in the treatment basin after 72 hours of the most recent rain event, or other deviation from the permit, a report shall be submitted to the Department using [Form 62-330.311\(1\)](#) describing the remedial actions taken to resolve the failure or deviation.

9. The operation and maintenance entity shall have a qualified stormwater management inspector inspect the stormwater treatment system, the conveyance systems and the outfall in the conservation easement at least once every 60 months.
10. The operation and maintenance entity shall submit the results of the 5-year stormwater management system inspection within 30 days of the inspection on [Form 62-330.311\(1\)](#).

FWC SPECIFIC CONDITIONS

11. Florida Sandhill Crane

The Permittee shall conduct surveys for nesting sandhill cranes prior to construction activities and during the December through August breeding season. If there is evidence of nesting during this period, the nest site shall be buffered by 400 feet to avoid disturbance by human activities. If nesting is discovered after construction has begun or if maintaining the recommended buffer is not possible, the applicant shall contact FWC staff identified below to discuss potential permitting needs. Basic guidance for conducting wildlife surveys may be found in the Sandhill Crane Species Conservation Measures and Permitting Guidelines

<http://www.myfwc.com/media/4105886/Final-Florida-Sandhill-Crane-Species-Guidelines-2016.pdf>.

12. Least Tern

The permittee shall implement the following measures to reduce nesting potential during construction:

- Conduct construction activities outside of the breeding season (generally April through August) if feasible, or
- If the site is cleared during the breeding season, clear the site only when ready to build, and;
- Avoid leaving cleared areas with little to no activity for an extended amount of time.

If nesting is observed, the Permittee shall contact FWC staff to discuss necessary nest buffers and potential permitting alternatives. For additional information, please refer to FWC's Breeding Bird Protocol for Florida's Seabirds and Shorebirds located at the following web address:

<https://public.myfwc.com/crossdoi/shorebirds/PDFfiles/BreedingBirdProtocolForFloridasSeabirdsAndShorebirds.pdf>.

13. Sherman's Fox Squirrel

The Permittee shall conduct appropriate pre-construction surveys to determine whether Sherman's fox squirrels are nesting on the project site. Sherman's fox squirrels typically nest between October and February and from April to August. Fox squirrels are known to use more than one nest and that nest use can vary over time. For accuracy, surveys shall be conducted within 60 days prior to clearing or construction. If fox squirrel nests are found onsite, a 125-foot buffer distance from the nest shall be maintained. If it will be necessary to remove a nest tree or work within 125 feet of a nest tree, the applicant should then coordinate with FWC staff to discuss permitting alternatives. Final Species Conservation Measures and Permitting Guidelines for the Sherman's fox squirrels can be found on the FWC website:

<http://myfwc.com/media/4105895/Final-Shermans-Fox-squirrel-Species-Guidelines-2016.pdf>.

14. Avian Mortality

The Permittee shall notify FWC staff any documentation of dead, injured, or stranded birds observed during operation to FWC's Avian Conservation Coordinator, Craig Faulhaber at Craig.Faulhaber@MyFWC.com within 30 days of the occurrence.

15. Prescribed Fire

The Permittee shall coordinate with the Florida Forest Service, who manages the Babcock Ranch Preserve, so site management staff is aware of the timing of burns and any necessary actions that could be taken. Information regarding prescribed burning can be found at

<http://myfwc.com/wildlifehabitats/prescribed-fire/inside-look/>.

GENERAL CONDITIONS FOR INDIVIDUAL PERMITS

The following general conditions are binding on all individual permits issued under chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual* (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual* (Florida Department of Environmental Protection, Nonpoint Source

Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.

5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

- a. For all other activities "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)]. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:

- a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
- b. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:

- a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
- b. Convey to the permittee or create in the permittee any interest in real property;
- c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or

- d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the Agency in writing:

- a. Immediately if any previously submitted information is discovered to be inaccurate; and
- b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

Executed in Lee County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Jon M. Iglehart
District Director
South District Office

JMI/jsg

Attachments:

25 project drawings

'Post Issuance' forms: <http://www.dep.state.fl.us/water/wetlands/erp/forms.htm>

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this permit, including all copies, were mailed before the close of business on **December 13, 2018**, to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated Department clerk, receipt of which is hereby acknowledged.



Clerk

December 13, 2018

Date



FDEP PERMIT PLANS FOR FPL BABCOCK PRESERVE SOLAR ENERGY CENTER

PREPARED FOR
FLORIDA POWER AND LIGHT COMPANY
SEPT. 2018
LOCATED IN SECTIONS 4, 5, 32, 33 TOWNSHIP 41S AND 42S, RANGE 26E
CHARLOTTE COUNTY, FLORIDA

APPLICANT:
FLORIDA POWER AND LIGHT (FPL)
700 UNIVERSE BLVD.
JUNO BEACH, FLORIDA 33408
PHONE: 561-304-5847
CONTACT: NAZ R. CAPOREALE, P.E.

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
1412 JACKSON STREET, SUITE 2
FORT MYERS, FLORIDA 33901
PHONE: 941-379-4352
CONTACT: AMY N. WICKS, P.E.

SURVEYOR:
KING ENGINEERING ASSOCIATES, INC.
4921 MEMORIAL HIGHWAY
ONE MEMORIAL CENTER, SUITE 300
TAMPA, FLORIDA 33634
PHONE: 813-880-8881
CONTACT: JAMES DAVID GREER, P.S.M.

ENVIRONMENTAL CONSULTANT:
HOR, INC.
2805 CATTLEMEN RD., SUITE 400
SARASOTA, FLORIDA 34232
PHONE: 941-342-2757
CONTACT: SHERIE R. SWANSON

UTILITY COMPANIES:
POTABLE WATER AND SANITARY SEWER
TOWN AND COUNTRY UTILITIES
17837 MARDOCK CIRCLE
PORT CHARLOTTE, FLORIDA 33948
PHONE: (941) 235-6907

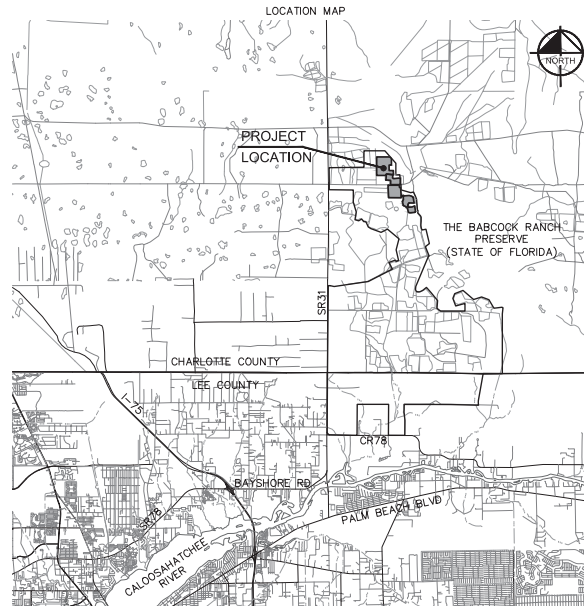
ELECTRIC:
FLORIDA POWER AND LIGHT (FPL)
10650 PALM BEACH BLVD.
FORT MYERS, FLORIDA 33905
PHONE: (239) 334-7754

GAS:
TECO PEOPLES GAS
702 NORTH FRANKLIN STREET
P.O. BOX 2562
TAMPA, FL 33601
PHONE: (813) 275-3700

TELEPHONE:
CENTURY LINK, INC.
1201 E. JOHNSON RD.
PORT CHARLOTTE, FL 33948
PHONE: (941) 629-3311

CABLE TELEVISION:
COMCAST
22208 EDGEWATER DR.
PORT CHARLOTTE, FL 33980
PHONE: (941) 625-6000

SOLID WASTE:
WASTE MANAGEMENT
2500 HARBOR VIEW RD., SUITE 2
PORT CHARLOTTE, FLORIDA 33980
PHONE: (941) 764-4360



PROPERTY INFORMATION	
FOLIO #	412632200003
	412633300002
	422604300003
ORDINANCE #	2006-058
ZONING	MURC

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C-1	TITLE SHEET
C-2	GENERAL NOTES
C-3	AERIAL LOCATION MAP
C-4	EXISTING CONDITION MAP
C-5	SITE PLAN
C-6	MASTER DRAINAGE PLAN
C-7	GRADING AND DRAINAGE PLAN INDEX
C-8	GRADING AND DRAINAGE PLAN
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C-13	GRADING AND DRAINAGE PLAN
C-14	TYPICAL SECTIONS
C-15	EROSION CONTROL PLAN
C-16	EROSION CONTROL DETAILS
C-17	TYPICAL DETAILS
C-18	CHECK VALVE DETAILS
C-19	FENCE DETAILS
C-20	FENCE DETAILS
C-21	FENCE DETAILS
C-22	FENCE DETAILS
C-23	DITCH STABILIZATION DETAILS
C-24	DITCH STABILIZATION DETAILS
C-25	DITCH STABILIZATION DETAILS

Kellie Clark Digitally signed
P.E. 77642 by Kellie Clark
State of P.E. 77642 State
of Florida
Date: 2018.09.06
17:41:29 -04'00'

KELLIE CLARK
FLORIDA P.E. LICENSE NUMBER # 77642
CA # 00000696

DATE

PREPARED BY
Kimley»Horn

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Printed By: Alexander, Mike, Sheet: 5/21/2018, Layout: GENERAL NOTES, September 06, 2018 04:50:05pm, K:\FTM_Civil\148556001 - Baldock, Solar Power, F:\AEC\Projects\Sheet_C-2_GENERAL NOTES.dwg
This document, together with the concepts and designs presented herein, is an instrument of service, to be intended only for the specific purpose and client for which it was prepared. Reuse of or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to K.

GENERAL CONSTRUCTION NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE BEGINNING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DETECTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
- ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

DEMOLITION NOTES

- ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.

GRADING AND DRAINAGE NOTES

CLEARING AND GRUBBING:

- CONTRACTOR TO FILL IN DEPRESSIONAL AREAS WITHIN LIMITS OF CLEARING AND ENSURE POSITIVE DRAINAGE.
- SEED CLEARED AREAS. REFER TO SECTION 981 OF THE STANDARD SPECIFICATION FOR SEEDING AND MAINTENANCE REQUIREMENTS.

MAINTENANCE PATHWAYS:

- THE MAINTENANCE PATHWAYS SHOULD BE CLEARED AND GRUBBED, TO REMOVE TOPSOIL AND GRASS/VEGETATION WITHIN THE PROPOSED WIDTH OF THE PATHWAYS.
- REMOVED TOPSOIL SHALL BE REPLACED WITH CLEAN GRANULAR FILL. IN V LIFTS, COMPACTED TO 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT INITIAL ROLLING RESULTS IN UNSTABLE, YIELDING OR PUMPING CONDITIONS, THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED TO DETERMINE THE CAUSE OF THE PROBLEM AND TO MAKE RECOMMENDATIONS FOR REMEDIATION.

EROSION CONTROL NOTES

- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION "SWPPP" SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
- EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TONIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
- ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

MAINTENANCE

- ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.1" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE MAINTAINED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.
- SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
- THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50 CUBIC YARDS / ACRE.
- ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

Kimley»Horn

2500 N. W. 10TH AVE., SUITE 200
FORT MYERS, FL 33901
PHONE: 239-271-2600 FAX: 844-379-4302
WWW.KIMLEY-HORN.COM ON 03/26/2018

LICENSED PROFESSIONAL

DATE: 09/06/18

SCALE: AS SHOWN

DESIGNED BY: KHA

DRAWN BY: MDJ

CHECKED BY: ANJ

DATE:

KHA PROJECT

148556001

DATE: 09/06/18

SCALE: AS SHOWN

DESIGNED BY: KHA

DRAWN BY: MDJ

CHECKED BY: ANJ

DATE:

GENERAL NOTES

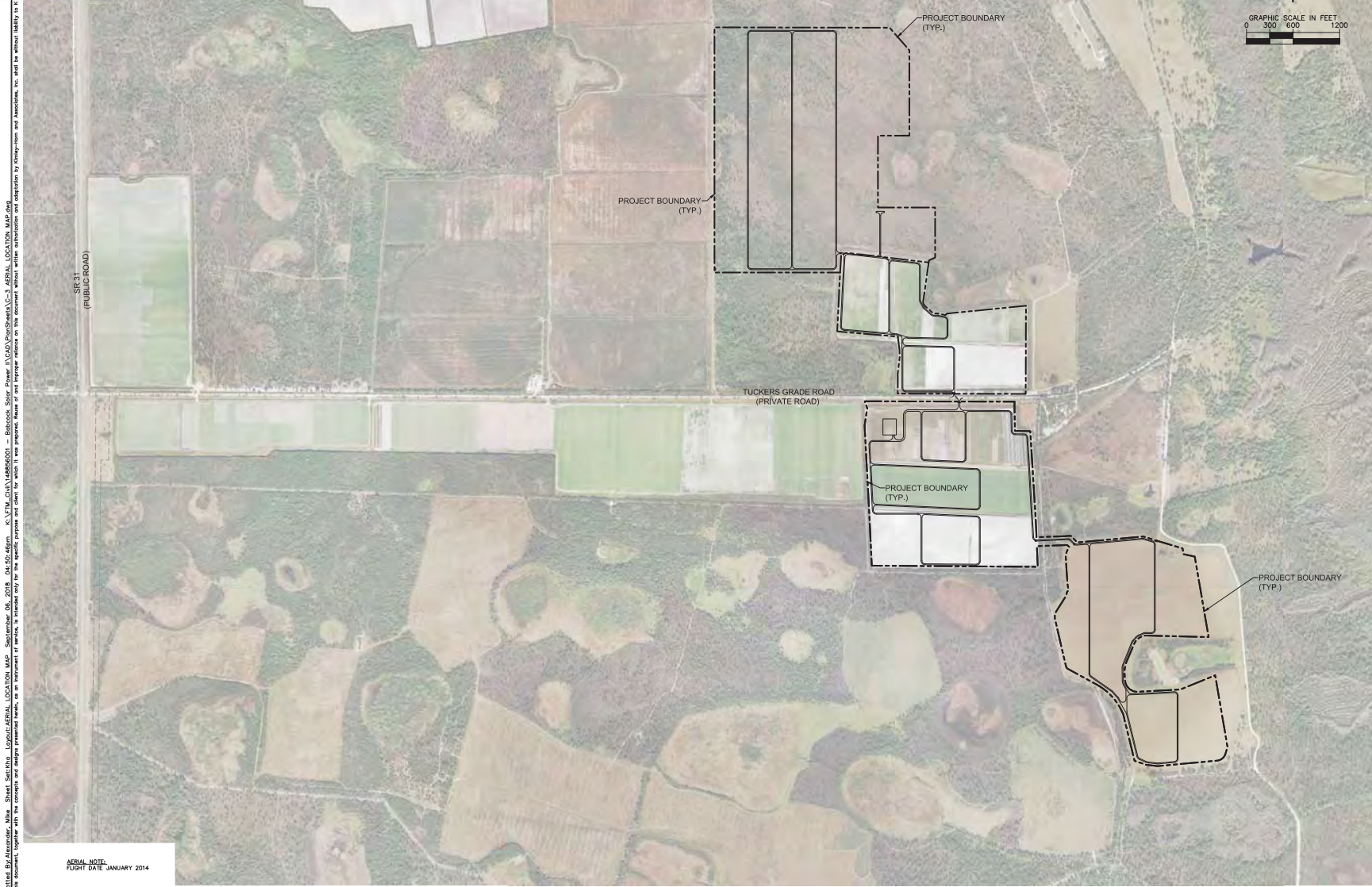
FPL BABCOCK
PRESERVE
PREPARED FOR
FLORIDA POWER & LIGHT

CHARLOTTE COUNTY, FLORIDA

SHEET NUMBER
C-2

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

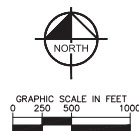
CALL 2 WORKING DAYS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
811
SANDHILL STATE ONE CALL OF FLORIDA, INC.



AERIAL NOTE:
FLIGHT DATE JANUARY 2014

Printed By: Alexander, Mike. Sheet: Section 1 Layout: AERIAL LOCATION MAP. September 05, 2018 04:52:45pm. K:\VTM_GW\14856001 - Babcock Solar Power\14856001 - AERIAL LOCATION MAP.dwg. This document, together with the concepts and design presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and/or alteration of this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to K&A.

FPL BABCOCK PRESERVE PREPARED FOR FLORIDA POWER & LIGHT CHARLOTTE COUNTY FLORIDA	AERIAL LOCATION MAP	KHA PROJECT 14856001 DATE SEPT. 2018 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY MDA CHECKED BY ANW	Kimley»Horn 2018 KIMLEY-HORN AND ASSOCIATES, INC. 1942 S. W. 10TH AVE., SUITE 100 FORT MYERS, FL 33901 PHONE 239-271-2600 FAX 844-379-4332 WWW.KIMLEY-HORN.COM CA 0000096		No.	REVISIONS	DATE	BY



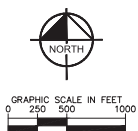
* HATCH PATTERNS ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL HATCH PATTERNS ON DRAWING MAY VARY IN SCALE, ANGLE & COLOR.

SURVEY NOTE:
ELEVATIONS SHOWN HERE ARE RELATIVE TO NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988. INFORMATION PROVIDED BY JOHNSON ENGINEERING.

[illegible]



Plotted By: Alexander, Mike Sheet Set: Kha Layout: SITE PLAN September 06, 2018 04:52:04pm K:\FTM_Civil\148856001 - Babcock Solar Power II\CAD\PlanSheets\C-5 SITE PLAN.dwg



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KHA PROJECT 148856001	LICENSED PROFESSIONAL
DATE SEPT. 2018	KELLIE CLARK
SCALE AS SHOWN	FLORIDA LICENSE NUMBER 77642
DESIGNED BY KHA	
DRAWN BY MDA	

SHEET NUMBER C-55	<p>FPL BABCOCK PRESERVE PREPARED FOR FLORIDA POWER & LIGHT</p>	<p>SITE PLAN</p>
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Plotted By: Alexander, Mike Sheet Set: Kha Layout: MASTER DRAINAGE PLAN September 06, 2018 04:52:34pm K:\FTM_Civ\148856001 - Babcock Solar Power II\CAD\PlanSheets\C-6 MASTER DRAINAGE PLAN.dwg



GRAPHIC SCALE IN FEET
0 250 500 1000

LAND USE SUMMARY						
LAND USE TYPE	ADJUSTED				TOTAL ADJUSTED	PERCENT
	1	2	3	4		
WETLANDS	1	1	1	1	4	100
WATER	1	1	1	1	4	100
FOREST	1	1	1	1	4	100
AGRICULTURE	1	1	1	1	4	100
DEVELOPMENT	1	1	1	1	4	100
BARREN	1	1	1	1	4	100
ROADS	1	1	1	1	4	100
RAILROADS	1	1	1	1	4	100
POWER LINES	1	1	1	1	4	100
WATERWAYS	1	1	1	1	4	100
WETLANDS	1	1	1	1	4	100
WATER	1	1	1	1	4	100
FOREST	1	1	1	1	4	100
AGRICULTURE	1	1	1	1	4	100
DEVELOPMENT	1	1	1	1	4	100
BARREN	1	1	1	1	4	100
ROADS	1	1	1	1	4	100
RAILROADS	1	1	1	1	4	100
POWER LINES	1	1	1	1	4	100
WATERWAYS	1	1	1	1	4	100
WETLANDS	1	1	1	1	4	100
WATER	1	1	1	1	4	100
FOREST	1	1	1	1	4	100
AGRICULTURE	1	1	1	1	4	100
DEVELOPMENT	1	1	1	1	4	100
BARREN	1	1	1	1	4	100
ROADS	1	1	1	1	4	100
RAILROADS	1	1	1	1	4	100
POWER LINES	1	1	1	1	4	100
WATERWAYS	1	1	1	1	4	100
WETLANDS	1	1	1	1	4	100
WATER	1	1	1	1	4	100
FOREST	1	1	1	1	4	100
AGRICULTURE	1	1	1	1	4	100
DEVELOPMENT	1	1	1	1	4	100
BARREN	1	1	1	1	4	100
ROADS	1	1	1	1	4	100

STORM WATER DISCHARGE

FLOW ARROW

SOLAR PANELS

INVERTER PAD

PROJECT BOUNDARY

PERMIT BOUNDARY

WETLAND PRESERVE

UPLAND PRESERVE

CONSERVATION AREA

LIMITS OF CLEARING

EXISTING BERM

EXISTING DITCH

EXISTING DIRT ROAD

EXISTING CONSERVATION EASEMENT

EXISTING DITCH TO BE FILLED

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AERIAL NOTE:
FLIGHT DATE JANUARY 2014

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KHA PROJECT	LICENSED PROFESSIONAL
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148856001	DATE
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SEPT. 2018

SCALE AS SHOWN	DESIGNED BY KHA	FLORIDA LICENSE NUMBER
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RAWN BY	MDA
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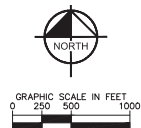
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MASTER DRAINAGE PLAN

FPL BABCOCK
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PREPARED FOR
FLORIDA POWER & LIGHT

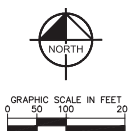
SHEET NUMBER
C-6



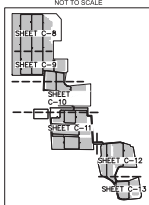
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		DATE SEP 2018	
		SCALE AS SHOWN	
		DESIGNED BY KHA DRAWN BY MHA	
		SHEET NUMBER C-7	
		LICENSED PROFESSIONAL KELLE CLARK FLORIDA LICENSE NUMBER 77642	



















Plotted By: Alexander, Mike Sheet Set: Kha Layout: GRADING PLAN 1 September 06, 2018 04:53:16pm K:\FTM_Civil\148856001 - Bobcock Solar Power II\CAD\PlanSheets\C-8 GRADING AND DRAINAGE PLAN.dwg



GRADING AND DRAINAGE PLAN INDEX



- ## LEGEND
-  FLOW ARROW
 -  SOLAR PANELS
 -  INVERTER (PAGE NOTE 1)
 -  PROPOSED INVERTER
 -  PAD ELEVATION (NOTE 1)
 -  PROJECT BOUNDARY
 -  PERMIT BOUNDARY
 -  4' FIELD FENCE (NOTE 2)
 -  6' FIELD FENCE (NOTE 2)
 -  6' CHAIN LINE FENCE (NOTE 2)
 -  BERM TO BE REMOVED
 -  EXISTING DITCH TO BE REMOVED
 -  PROPOSED DITCH
 -  EXISTING DIRT ROAD
 -  WETLAND PRESERVE
 -  UPLAND PRESERVE

AERIAL NOTE:
FLIGHT DATE JANUARY 2014

NOTE 1: SEE DETAIL SHEET C-17.
NOTE 2: SEE DETAIL SHEET C-22.

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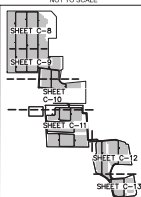
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KHA PROJECT 148856001	LICENSED PROFESSIONAL
DATE SEPT. 2018	KELLIE CLARK
SCALE AS SHOWN	FLORIDA LICENSE NUMBER 77642
DESIGNED BY KHA	
DRAWN BY MDA	
CHECKED BY ANW	DATE:

GRADING AND DRAINAGE PLAN

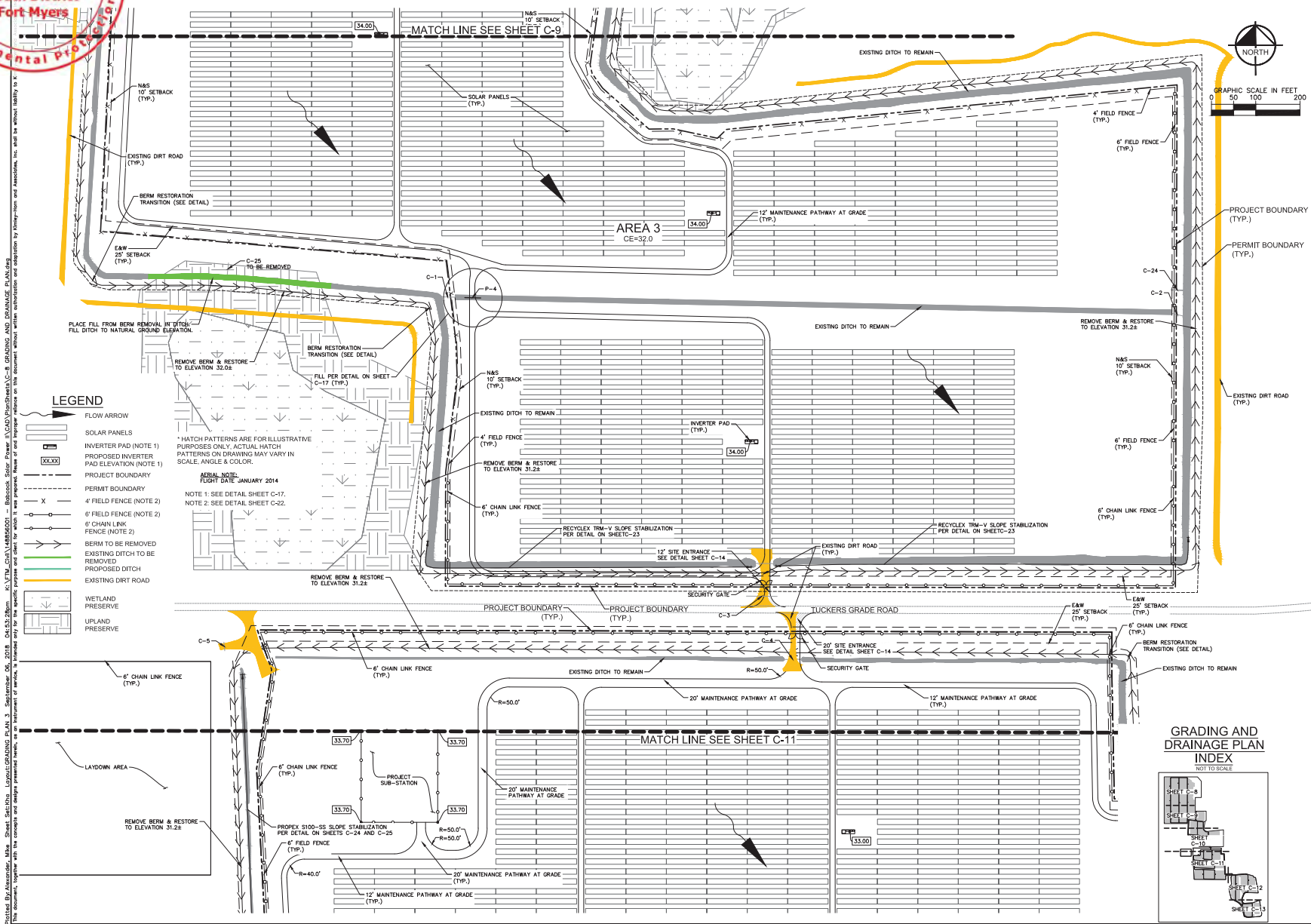
FPL BABCOCK
PRESERVE
PREPARED FOR
FLORIDA POWER & LIGHT
CHARLOTTE COUNTY
FLORIDA

SHEET NUMBER
C-8

SHEET
C



Permit Number
0368560-001 EI
South District
Fort Myers

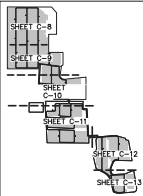


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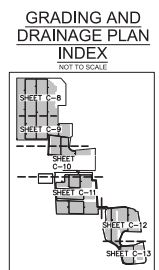
- FLOW ARROW
- SOLAR PANELS
- INVERTER PAD (NOTE 1)
- PROPOSED INVERTER PAD ELEVATION (NOTE 1)
- PROJECT BOUNDARY
- PERMIT BOUNDARY
- 4" FIELD FENCE (NOTE 2)
- 6" FIELD FENCE (NOTE 2)
- 6" CHAIN LINK FENCE (NOTE 2)
- BERM TO BE REMOVED
- EXISTING DITCH TO BE REMOVED
- PROPOSED DITCH
- EXISTING DIRT ROAD
- WETLAND PRESERVE
- UPLAND PRESERVE

REVISIONS
DATE: JANUARY 2014
NOTE 1: SEE DETAIL SHEET C-17.
NOTE 2: SEE DETAIL SHEET C-22.

GRADING AND DRAINAGE PLAN INDEX
NOT TO SCALE

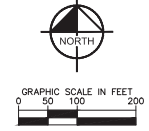


FPL BABCOCK PRESERVE PREPARED FOR FLORIDA POWER & LIGHT CHARLOTTE COUNTY		KIMLEY HORN 200 N. W. 10th Ave., Suite 100 Fort Myers, FL 33901 Phone: 239-271-2600 Fax: 813-379-4332 WWW.KIMLEYHORN.COM		DATE: 09/10/18 SCALE: AS SHOWN DESIGNED BY: KIMLEY HORN DRAWN BY: KIMLEY HORN CHECKED BY: KIMLEY HORN		DATE: 09/10/18 SCALE: AS SHOWN DESIGNED BY: KIMLEY HORN DRAWN BY: KIMLEY HORN CHECKED BY: KIMLEY HORN	
SHEET NUMBER C-10		KIMLEY HORN		DATE: 09/10/18		DATE: 09/10/18	



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GRADING AND DRAINAGE PLAN

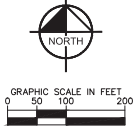
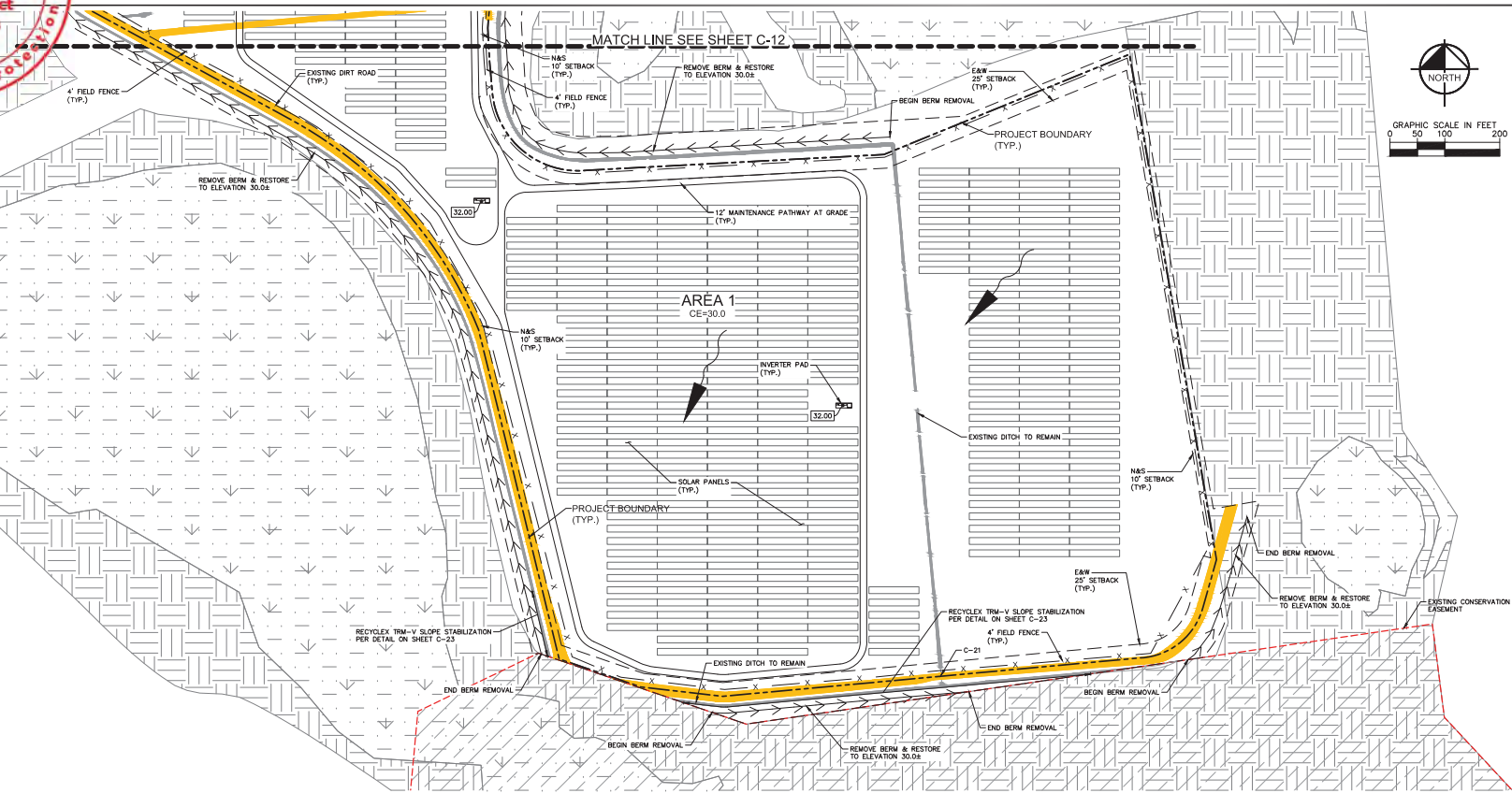
**FPL BABCOCK
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PREPARED FOR
FLORIDA POWER & LIGHT
CHARLOTTE COUNTY
FLORIDA

SHEET NUMBER
C-12

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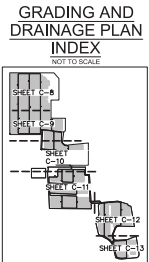


- LEGEND**
- FLOW ARROW
 - SOLAR PANELS
 - INVERTER PAD (NOTE 1)
 - PROPOSED INVERTER PAD ELEVATION (NOTE 1)
 - PROJECT BOUNDARY
 - PERMIT BOUNDARY
 - 4\"/>
 - 6\"/>
 - BERM TO BE REMOVED
 - EXISTING CONSERVATION EASEMENT
 - PROPOSED DITCH
 - EXISTING DIRT ROAD
 - WETLAND PRESERVE
 - UPLAND PRESERVE
 - CONSERVATION AREA

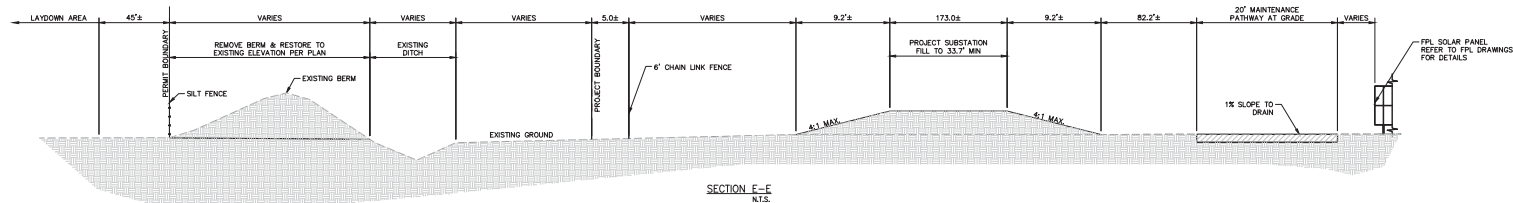
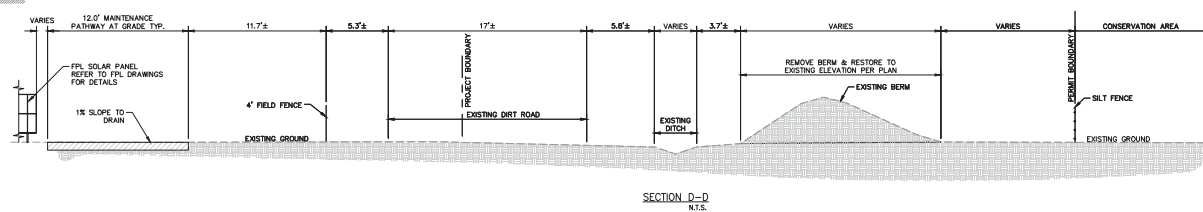
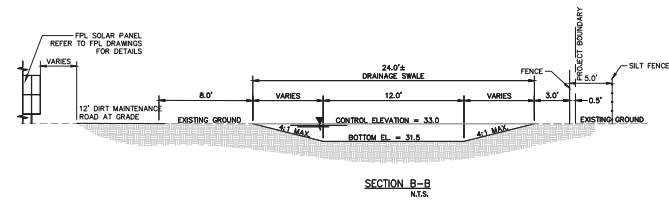
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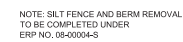
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FLIGHT DATE: JANUARY 2014

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NOTE 2: SEE DETAIL SHEET C-22.

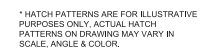


FPL BABCOCK PRESERVE		GRADING AND DRAINAGE PLAN		KIMLEY-HORN AND ASSOCIATES, INC.		NO.		REVISIONS		DATE		BY	
PREPARED FOR		FLORIDA POWER & LIGHT		DESIGNED BY KIMLEY-HORN		DRAWN BY		DATE		DATE		DATE	
CHARLOTTE COUNTY		FLORIDA		SCALE: AS SHOWN		DATE: SEPT. 2018		KIMLEY-HORN PROJECT NO. 14-856001		KIMLEY-HORN LICENSED PROFESSIONAL		KIMLEY-HORN PROJECT NO. 14-856001	
SHEET NUMBER		C-13		KIMLEY-HORN PROJECT NO. 14-856001		KIMLEY-HORN LICENSED PROFESSIONAL		KIMLEY-HORN PROJECT NO. 14-856001		KIMLEY-HORN LICENSED PROFESSIONAL		KIMLEY-HORN PROJECT NO. 14-856001	

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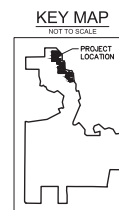


LEGEND



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AERIAL NOTE:
FLIGHT DATE JANUARY 2014

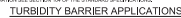
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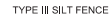
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1. FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIER, LF.
2. STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.



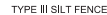
TURBIDITY BARRIERS FOR FLOODING STREAMS AND TIDAL CREEKS MAY BE EITHER
FLOATING OR STAGED TYPES OR ANY COMBINATION OF TYPES THAT WILL SUIT SITE
CONDITIONS AND MEET EROSION CONTROL, AND WATER QUALITY REQUIREMENTS. THE
BARRIER TYPES WILL BE AT THE CONTRACTOR OPTION UNLESS OTHERWISE SPECIFIED
IN THE PLANS. HOWEVER PAYMENT WILL BE UNDER THE PAY (ITEMS) ESTABLISHED IN
THE PLANS FOR FLOATING TURBIDITY BARRIER AND OR STAGED TURBIDITY BARRIERS.
POSTS IN STAGED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS
OTHERWISE DIRECTED BY THE ENGINEER.



SILT FENCE APPLICATIONS



GRAVEL FILLED SAND BAGS BACKED BY FENCE

Kimley» Horn

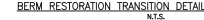
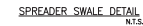
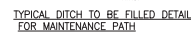
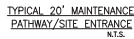
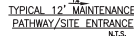
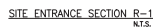
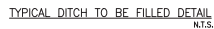
LICENSED PROFESSIONAL

KHA PROJECT
149956001

EROSION CONTROL DETAILS

**FPL BABCOCK
PRESERVE**
PREPARED FOR
FLORIDA POWER & LIGHT
FLORIDA
CHARLOTTE COUNTY

SHEET NUMBER
C-16



NOTE:
ALL PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH SECTION 125 OF THE
FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST
EDITION).

CALL 2 WORK

Know what's below.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

2

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412 JACKSON STREET, SUITE 2, FORT MYERS, FL 33901
PHONE: 239-271-2850 FAX: 941-379-4352
WWW.KIMLEY-HORN.COM CA 00000696

KELLIE CLARK

DATE
SEPT. 2018
SCALE AS SHOWN

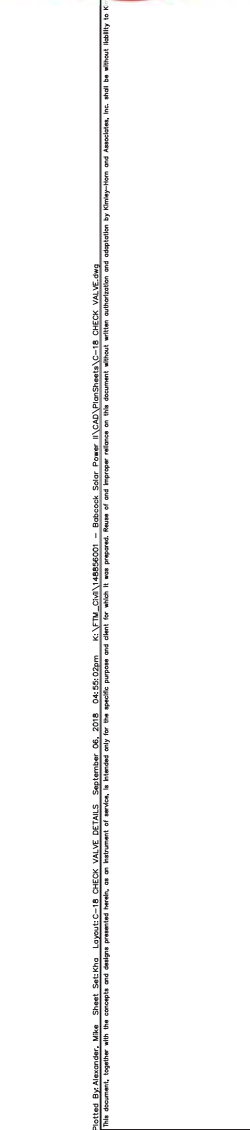
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TYPICAL DETAILS

PREPARED FOR

FLORIDA POWER & LIGHT
CLARKE COUNTY FLORIDA

SHEET NUMBER
C-17



NOTES:

1. PIPE NOSE DIAMETER - **MUST BE SUPPLIED**
2. CLAMP INSTALLED IN UPSTREAM OR DOWNSTREAM DUFF DEPENDING ON INSTALLATION DIRECTION
3. MAXIMUM ALLOWABLE BUCK PRESSURE - **(40 D. FEET)**
4. IT IS RECOMMENDED TO BOLT OR PIN TIEPLAS TO PIPE AS SHOWN, 2 PLACES, 180° APART

[illegible]

CALL 2 WORKING DAYS
BEFORE YOU DIG

IT'S THE LAW!
DIAL 811

811

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THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE

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—ENCE DETAILS

FPL BABCOCK
PRESERVE
PREPARED FOR
FLORIDA POWER & LIGHT
CHARLOTTE COUNTY

SHEET NUMBER
C-19



SECTION "B-B"

GATE FRAME DETAIL

DESCRIPTION	NOMINAL PIPE SIZE
GATE ROLLER POST	6"
GATE LATCH POST	3 1/2"
GATE FRAME	2
GATE VERT. & HORIZ. BRACING	3 1/2"
GATE DIAGONAL BRACING	1 1/2"
BARBED WIRE EXTENSIONS	1 1/2"

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SHEET NUMBER
C-21

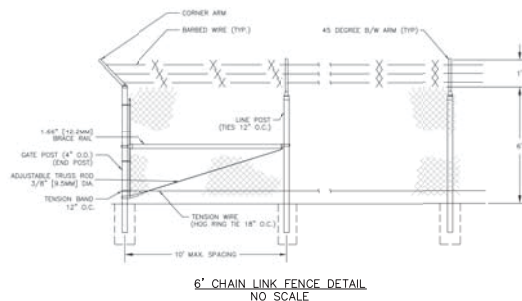
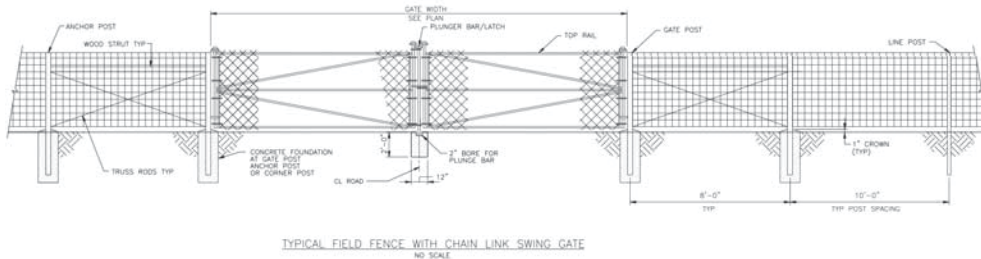
FENCE DETAILS

KHA PROJECT 148856001	DATE SEPT. 2018	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY MDA	ANIM
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Kimley»Horn

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412 JACKSON STREET, SUITE 2, FORT MYERS, FL 33901
PHONE: 239-271-2650 FAX: 941-379-4352
WWW.KIMLEY-HORN.COM CA 00000648

[illegible]



THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SHEET NUMBER C-22	FPL BABCOCK PRESERVE PREPARED FOR FLORIDA POWER & LIGHT	FENCE DETAILS	KHA PROJECT 148556001	DATE SEP 18, 2018	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY MDA	KIMLEY»Horn 2018 KIMLEY-HORN AND ASSOCIATES, INC. 1410 J. D. RILEY AVENUE, SUITE 13001 PHONE: 239-271-2650 FAX: 941-379-4332 WWW.KIMLEY-HORN.COM CA 0000086																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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EXTEND A MINIMUM OF 7'-0" INTO OBJECT OF SLOPE. SEE DETAIL A/D. REINFORCEMENT ANCHORS 6" MIN. SPACING. IF 7'-0" IS NOT AVAILABLE AT THE FOOT OF SLOPE OR A CORNER, MINIMUM ANCHOR SHALL BE 4'-0". SEE DETAIL A/D & B/D.

OVER SLOPE OBJECT METHOD
NO SCALE
NO NEED TO REMOVE SOIL OR CLAY. BE COVERED A MINIMUM OF 7'-0" OVER THE OBJECT OF THE SLOPE.

END ROLL OVERLAP
NO SCALE

BOTTOM OF SLOPE TERMINATION
NO SCALE

Recyclex* TRM Staple Pattern Guide

Reinforcement Length Pattern	A	B
Staple Placement	1.1 Staples/yd ²	1.4 Staples/yd ²

Staple Placement

1.1 Staples/yd²

1.4 Staples/yd²

SLOPE TRIMMING METHOD "A"
NO SCALE

SLOPE TRIMMING METHOD "B"
NO SCALE

SIDE SEAM OVERLAP STAPLE DETAIL
NO SCALE

Notes:

- For cohesive soil use 4 in wire staples and for non-cohesive soil use 6 in wire staples.
- For best results insert staples on both sides parallel to the flow of water.

American Excelsior Company
Earth Science Division

A. The TRM shall be measured by the square yard of surface area covered. No measurement for payment shall be made for overlaps, fine grading, trenching, staples, or other miscellaneous materials necessary for placement of the erosion control TRM.

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SHEET NO. C-23	FPL BABCOCK PRESERVE PREPARED FOR FLORIDA POWER & LIGHT FLORIDA CHARLOTTE COUNTY	DITCH STABILIZATION DETAILS	KWA PROJECT 148656001	DATE SEPT. 2018	KIMLEY-HORN AND ASSOCIATES, INC. 1419 S. 2018 PALM-HORN AND ASSOCIATES, INC. 33001 PHONE: 239-271-3500 FAX: 941-374-4352 WWW.KIMLEY-HORN.COM CA 00000986	No.	REVISIONS	DATE	BY
			SCALE AS SHOWN DESIGNED BY: RHA DRAWN BY: MDA CHECKED BY: ANW						



Plotted By: Alexander, Mike Sheet Set: Kha Layout: DITCH

[illegible]

MAINTENANCE

Maintenance should consist of watering and weeding, repair of all erosion, and any re-seeding as necessary to establish a uniform stand of vegetation during construction and beyond. A minimum of 70% of the armored area should be covered with no less than seed levels greater than 100 lb (45 kg). Establishing vegetation should not be mowed prior to 70% vegetation and a minimum grass height of 4 in (100 mm). Timing of the duration of the project, the Contractor should be responsible for mowing to facilitate growth and should not let the vegetation grow to a height of 4 in (100 mm) or less. The Contractor should water all grassed areas as necessary to establish satisfactory growth and should not let the vegetation die. The Contractor shall maintain its growth throughout the duration of the project. After the project is complete, it is the responsibility of the Owner to maintain and upkeep all ArmorMax installed areas for its term performance and best results as described herein for superior slope armor.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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PREPARED FOR
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CHARLOTTE COUNTY
FLORIDA

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