



FLORIDA DEPARTMENT OF Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

May 15, 2020

Gregg Hall, Siting Manager
Florida Power & Light Co.
700 Universe Blvd., TS4-JW
Juno Beach, FL 33408
robert.beaulieu@fpl.com

RE: FPL Raven Substation Expansion
Modification of Permit No: 12-0296190-003-EI
Modification No.: 12-0296190-004-EM

Dear Mr. Hall:

Your request to modify the above permit has been reviewed by Department staff in accordance with Section 62-343.100 and 62-343.120, Florida Administrative Code (F.A.C.). Your permit was issued under the authority of Part IV of Chapter 373, Florida Statutes (S.F.), and Title 62, F.A.C., Chapter 253 and Chapter 258, F. S., and Chapter 18-20, F.A.C., if located within an Aquatic Preserve, and Chapter 18-21, and Section 62-343.075, F.A.C., and the policies of the Board of Trustees and in accordance to Operating Agreements executed between the Department and the Water Management Districts, as referenced in Chapter 62-113, F.A.C., and a Coordination Agreement Between the U.S. Army Corps of Engineers, Jacksonville District, and the Department for a State Programmatic General Permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 401 of the Clean Water Act.

This permit contains a regulatory authorization for the construction and operation of the system, a proprietary authorization for the use of sovereignty submerged lands for private purposes, if applicable, and the Federal State Programmatic General Permit (SPGP) for activities in Wetlands and/or Waters of the United States, if applicable.

The requested modification is to expand the existing substation yard to the west; add a perimeter driveway around southern portion of the yard (which will result a swale at southeast to be partially filled); construct an associated drainage system including inlets, pipes and site grading to direct stormwater runoff to the wet detention pond permitted under ERP No. 12-0296190-003-EI; and increase orifice of the pond control structure from 3.25-inch to 4.50-inch in diameter. With the modification, the stormwater management will provide runoff collection, treatment and attenuation for the entire substation during storm events up to 100-year frequency, 1-, 2-, 4-, 8-, 24-hour, 3-, 7-, and 10 days durations.

The requested modification(s) will affect these authorizations as listed:

REGULATORY AUTHORIZATION FOR CONSTRUCTION AND OPERATION

The above change(s) is/are not expected to adversely affect water quality and will not be contrary to public interest and not expected to result in any adverse environmental impact or water quality degradation. The authority sought under the provisions of Part IV of Chapter 373, F.S., and Title 62, F.A.C. to construct and operate the system is modified as described above.

PROPRIETARY REVIEW

Your project does not occur on state-owned submerged lands and will not require authorization from the Department to use these lands for private purposes in accordance with Section 253.77, Florida statutes.

Federal Review

This permit does not include Federal authorization or imply the presence or limits of Waters of the United States (WOTUS) on the subject property. Activities that may impact WOTUS shall require a separate permit from the Corps. It is recommended that you contact your local Corps office to determine whether your project site contains WOTUS and/or if a Department of the Army permit is needed. A map of local Corps offices and the federal application form (ENG 4345) are available online at the Jacksonville District Regulatory Division website.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and

(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

If you have any questions regarding this matter, please contact Junhong Shi, P.E. at the letterhead address or at Junhong.Shi@floridadep.gov.

EXECUTION AND CLERKING

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Thomas G. Kallemeyn
Permitting Program Administrator


Enclosures:

Project Drawings and Design Specs., 8 pages
Construction Commencement Notice/Form 62-330.350(1)
As-built Certification and Request for Conversion to Operational Phase / Form 62-330.310(1)
Operation and Maintenance Inspection Certification / Form 62-330.311(1)

TK:mn/js/cc


CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Steve Buswell, P.E. Parker Mynchenberg & Associates, info@parkermynchenberg.com
Thomas Kallemeyn, FDEP NED
Michelle Neeley, FDEP NED 
Kim Pearce, FDEP NED
Junhong Shi, FDEP NED

FILING AND ACKNOWLEDGMENT

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



Clerk

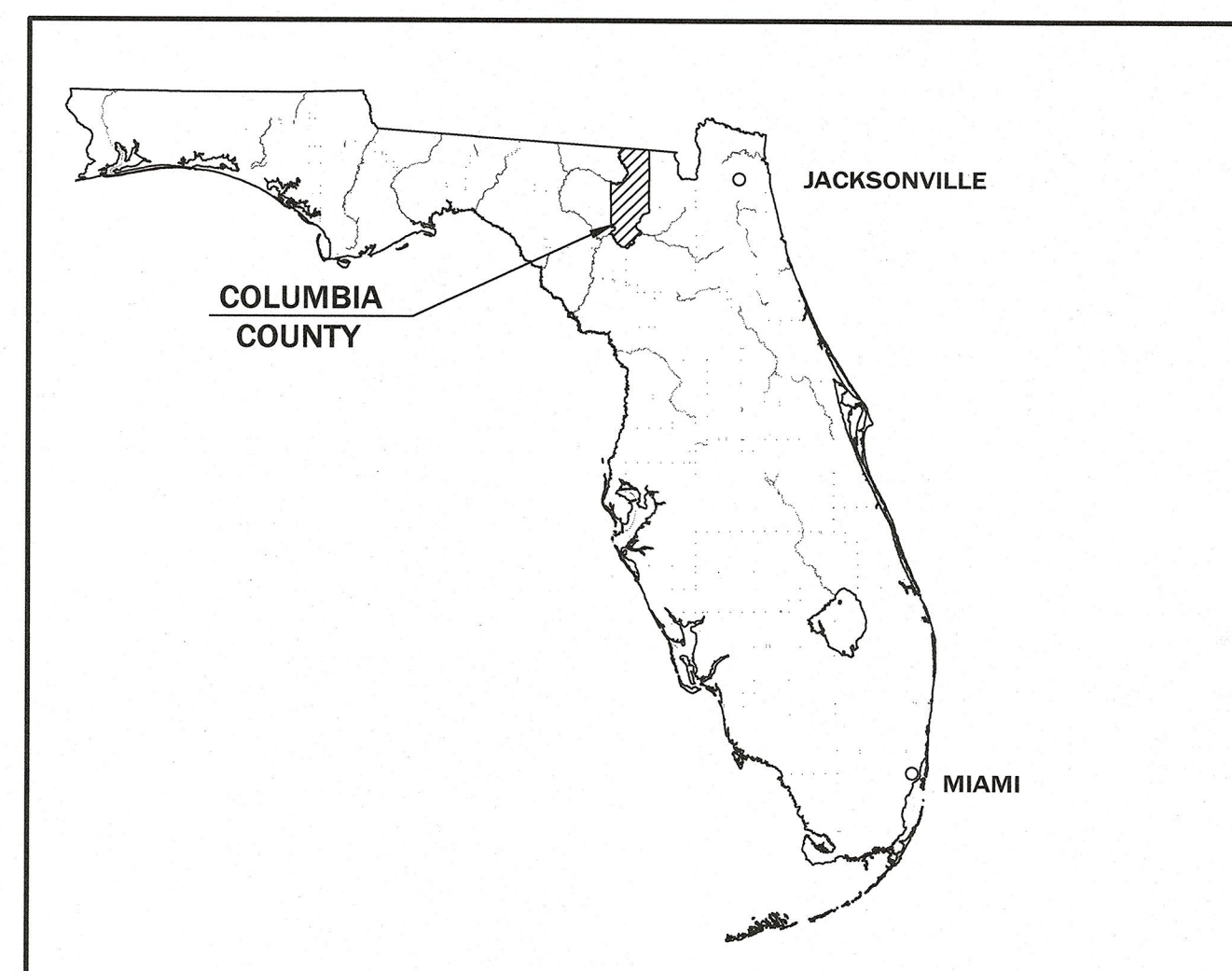
May 15, 2020

Date

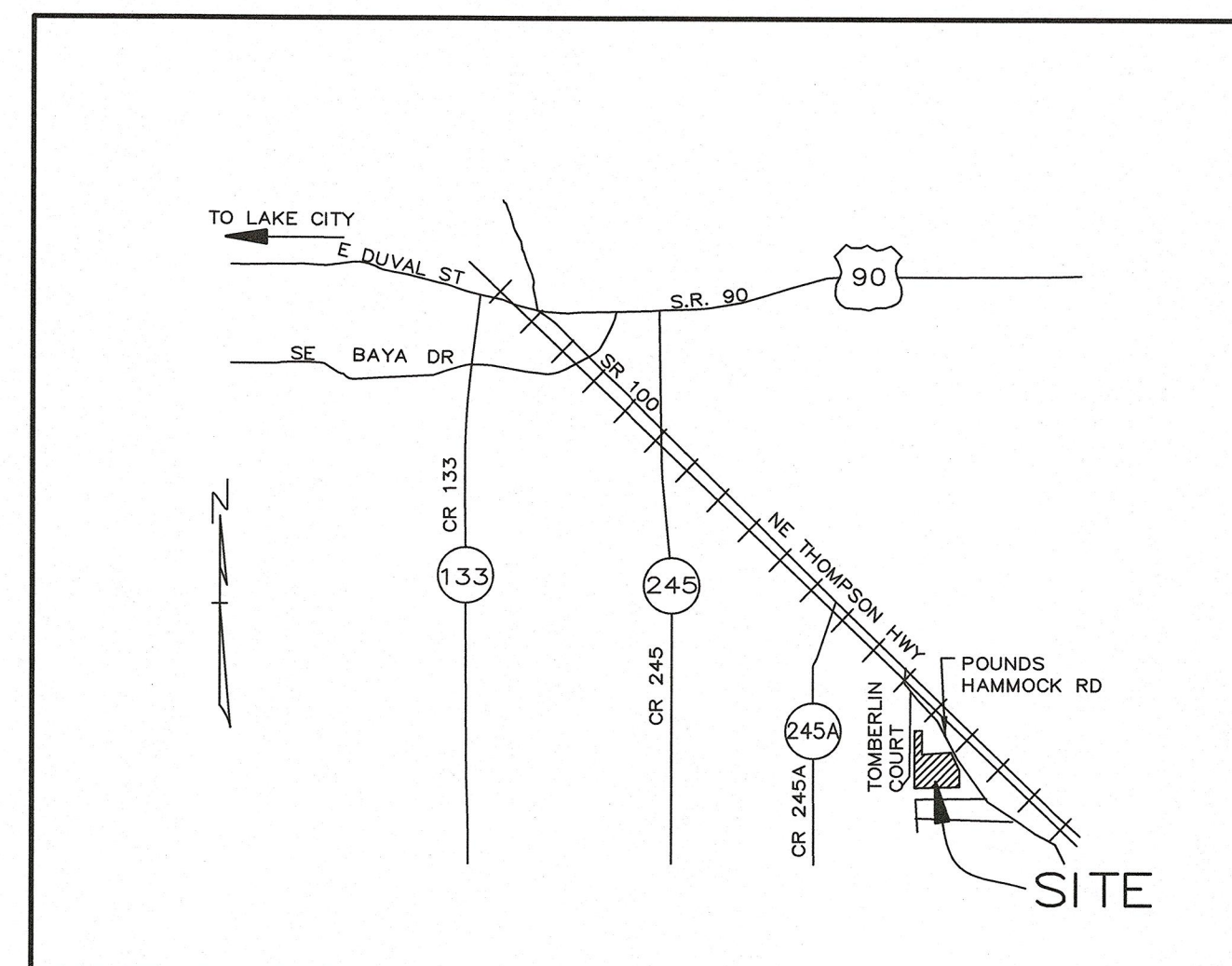
RAVEN SUBSTATION PHASE 2 EXPANSION SITE DEVELOPMENT PLAN



COLUMBIA COUNTY, FLORIDA A PORTION OF SECTION 12, TOWNSHIP 4S, RANGE 17E



LOCATION MAP



VICINITY MAP

GENERAL NOTES

SURVEY PROVIDED BY :

L.D. BRADLEY LAND SURVEYORS
5773 NORMANDY BLVD.
JACKSONVILLE, FLORIDA 32205
PHONE (904) 786-6400
DATE: 05/01/19

PLANS PREPARED BY :

PARKER MYNCHENBERG & ASSOCIATES, INC.
1729 RIDGEWOOD AVENUE
HOLLY HILL, FLORIDA 32117
PHONE (386) 677-6891
FAX (386) 677-2114

1. EXISTING ZONING:
2. BOUNDARY, TOPOGRAPHIC, WETLAND & TREE SURVEY PROVIDED BY L.D. BRADLEY LAND SURVEYORS, JACKSONVILLE, FLORIDA DATED 5/1/19.
3. LOCATIONS OF EXISTING UTILITIES ARE SHOWN BASED ON AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK AND TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION (I.E. SHEETING, DE-WATERING, ETC.). CONTRACTOR TO NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES OR CONFLICTS.
4. THERMOPLASTIC STRIPING AND TRAFFIC CONTROL SIGNAGE TO MEET FDOT AND COLUMBIA COUNTY SPECIFICATIONS.
5. TRAFFIC CONTROL SIGNS TO BE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS. ALL STOP SIGNS, SPEED LIMIT AND STREET SIGNS REQUIRED TO BE PROVIDED BY DEVELOPER TO COLUMBIA COUNTY SPECIFICATIONS.
6. ALL TRAFFIC CONTROL SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES USING 3M BRAND "SCOTCHLIGHT" SHEETING (ENGINEER GRADE) ON MINIMUM 0.080 GAUGE 5052-H38 ALUMINUM BLANKS. ALL STOP SIGNS SHALL BE HIGH INTENSITY 30" OCTAGON INSTALLED ON 12" 3 LBS/FT. "U" CHANNEL POSTS (RAIL STEEL ONLY) OR 3" X 12", ROUND ALUMINUM POSTS. "U" CHANNEL POSTS MAY BE USED FOR ALL SIGNS SMALLER THAN 36" X 48". ALL WARNING SIGNS SHALL BE 30" X 30".

7. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND/OR LICENSES TO COMMENCE CONSTRUCTION.
8. ALL CONCRETE SHALL DEVELOP A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF PLANS, SPECIFICATIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
10. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
11. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
12. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
13. ALL OF THIS PROPERTY LIES WITHIN ZONE "X" OF FEMA FLOOD MAPS.

14. FORTY EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES AUTHORIZED BY THE FDP (ERP) #64-0288758-001 PERMIT, THE PERMITTEE SHALL SUBMIT TO THE DEPARTMENT THE NOTICE OF COMMENCEMENT, DEP FORM #62-343.900(3), F.A.C. INDICATING THE START DATE.
15. WITHIN 30 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE SURFACE WATER MANAGEMENT SYSTEM, THE PERMITTEE SHALL SUBMIT THE CERTIFICATION OF CONSTRUCTION COMPLETION, DEP FORM #62-343.900(5), F.A.C. AND TWO SETS OF RECORD DRAWINGS OF THE PROJECT, AS ACTUALLY CONSTRUCTED.

INDEX OF DRAWINGS

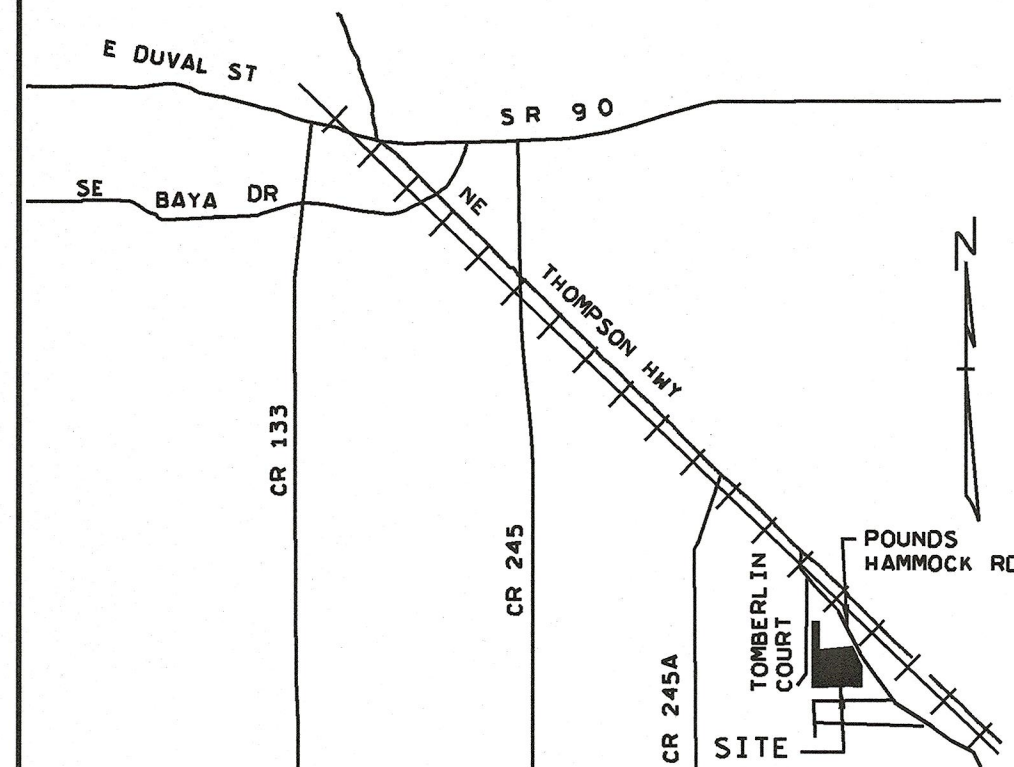
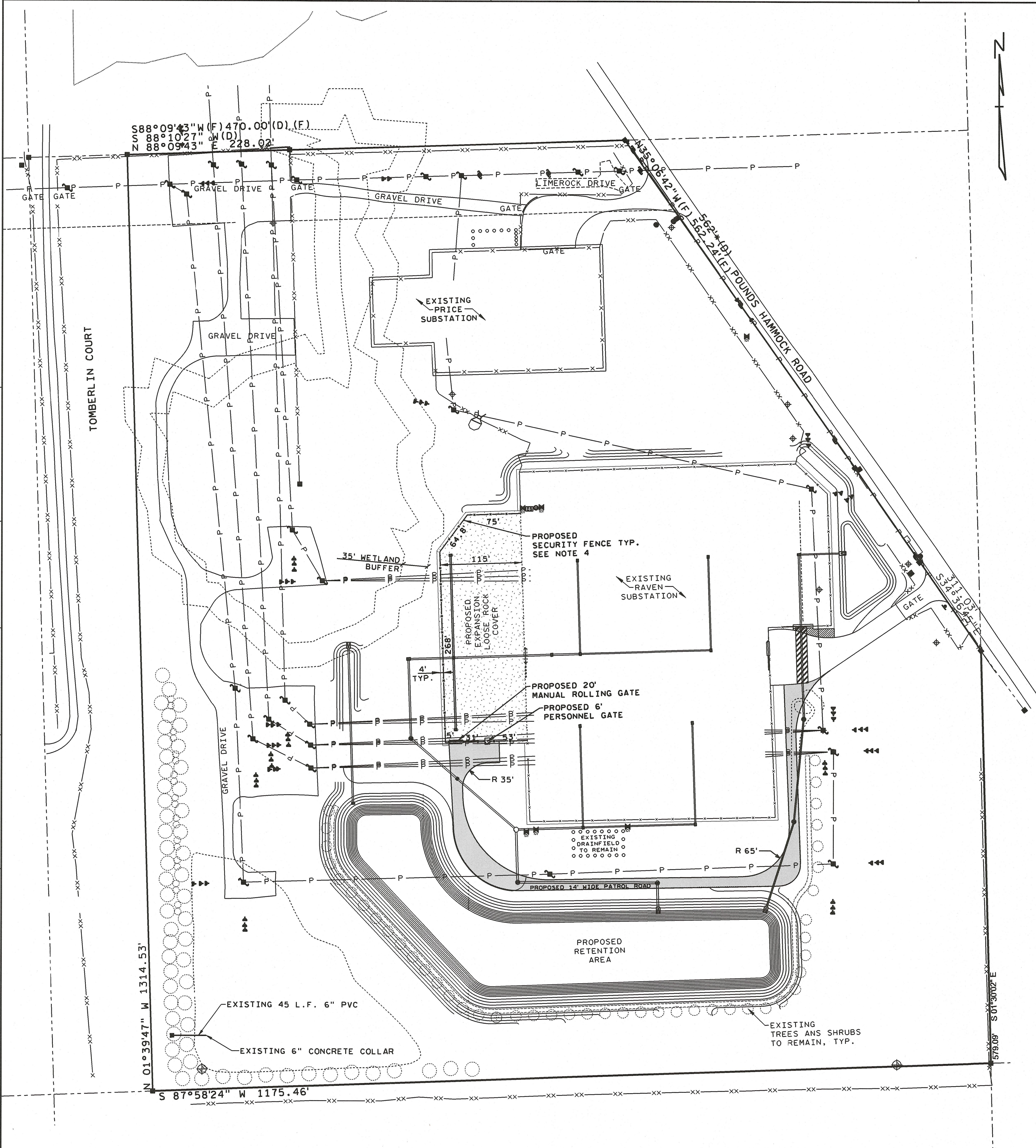
SKETCH NO.	DESCRIPTION
E-RAV00	COVER SHEET
E-RAV01 (1 OF 1)	SITE PLAN
E-RAV02 (1 OF 4)	FENCE, FILL & GRADE PLAN
E-RAV02 (2 OF 4)	PAVING AND DRAINAGE DETAILS
E-RAV02 (3 OF 4)	PAVING AND DRAINAGE DETAILS
E-RAV02 (4 OF 4)	STORMWATER POLLUTION PREVENTION PLAN
E-245766 (5 OF 12)	20' MANUAL ROLLING GATE
E-216798 (7 OF 7)	NON-CONDUCTIVE FENCE DETAILS

700 UNIVERSE BLVD. (PDP-JB)
JUNO BEACH, FLORIDA 33408

1	04-13-20	REVISED PER FPL REVIEW
REVISIONS		
RAVEN SUBSTATION FPL PROJECT NO. 2019		
06382751 R2	RAV 00	SKETCH NO.
CADE		

STEVEN R. BUSWELL
LICENSE
No. 53985
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

MAY 15 2020
ENGINEER'S SEAL



LOCATION SKETCH

SEC. 12, TWP. 4 S., RGE. 17 E.,
COLUMBIA COUNTY

GENERAL NOTES:

1. APPLICANT AND AGENT: BOB BEAULIEU
FOR FLORIDA POWER AND LIGHT, OWNER & DEVELOPER,
700 UNIVERSE BLVD., (TS4/JW), JUNO BEACH, FLORIDA 33408.
PHONE (561)904-3603.
2. THIS UNMANNED FACILITY WILL BE USED FOR TRANSFORMATION,
REGULATION, AND DISTRIBUTION OF ELECTRICITY.
3. FPL CERTIFIES THAT THIS FACILITY WILL BE USED ONLY BY
EMPLOYEES, AND THE WORK ASSOCIATED WITH HIGH VOLTAGE
ELECTRICAL EQUIPMENT CANNOT REASONABLY BE PERFORMED BY
HANDICAPPED PERSONS. PURSUANT TO CHAPTER 553.504(1),
OF FLORIDA STATUTES, THIS FACILITY IS NOT SUBJECT TO
THE ACCESSIBILITY REQUIREMENTS OF THE ADA.
4. FENCE SHALL BE 7'-0" CHAIN LINK WITH 6 STRANDS OF
BARBED WIRE ON "V" EXTENSION ARMS TO MAKE AN OVERALL
TOTAL HEIGHT OF 8'-0".
5. THIS FACILITY WILL CONSUME NO UNRECOVERABLE ENERGY AND
IS EXEMPT FROM THE FLORIDA ENERGY REVIEW CODE.
6. THIS FACILITY WILL GENERATE NO SOLID WASTE.
7. THIS IS AN UNMANNED RESTRICTED ACCESS FACILITY. NO
FPL EMPLOYEES REPORT TO THIS LOCATION AND MAINTENANCE
CREWS WILL PARK INSIDE THE FENCED AREA. THEREFORE, NO
PARKING SPACES WILL BE PROVIDED.
8. FPL TWO-MAN MAINTENANCE CREWS WILL AVERAGE TWO TRIPS
PER MONTH TO THIS FACILITY.
9. USE TWO (2) TWELVE FEET (12 FT) BY FIFTY INCH TALL TARTER
GALVANIZED MESH GATE SKU#360294099 FROM TRACTOR SUPPLY CO.
WITH RESPECTIVE SPEECO GATE WHEELS ON EACH LEAF
SKU#360352299 FROM TRACTOR SUPPLY CO.
OR FPL APPROVED EQUIVALENT.
10. INSTALL FIELD FENCE AS CLOSE TO THE PROPERTY LINE
AS POSSIBLE.
11. ZONING DISTRICT: AG-3
12. FUTURE LAND USE: AG
13. ADDRESS: TO BE ASSIGNED
14. PARCEL TAX ID NUMBER: 12-45-17-08323-00HX
15. THIS PROPERTY LIES IN FLOOD ZONE X.
PANEL 12023C0315C EFF. 2/4/09

SURVEY INFO PROVIDED BY:
LD BRADLEYLAND SURVEYORS
510 SOUTH 5TH STREET
MACLENNY, FLORIDA 32063
904-786-6400 05-01-2019

DATE 02-24-20	SCALE 0 75 112 150 225	DR VALENTIN ER
POWER DELIVERY	CH COR APP	COR
FPL	APPROVED	
ER NO DATE	REVISION	BY CH COR APP

RAVEN SUBSTATION
WEST EXPANSION
SITE PLAN

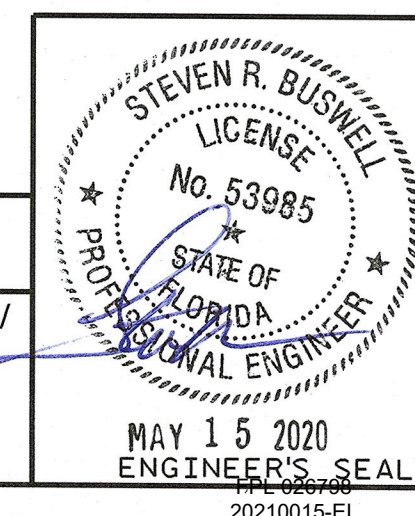
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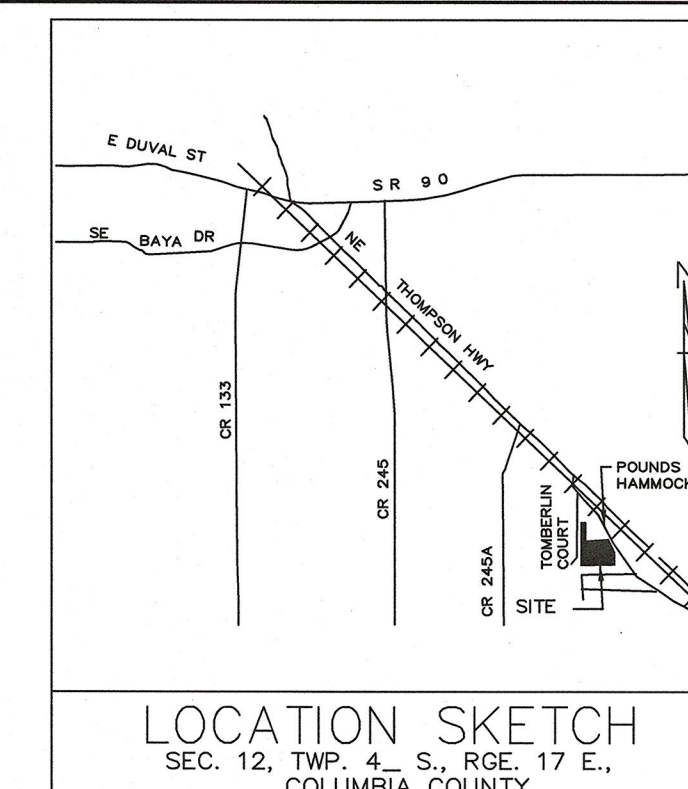
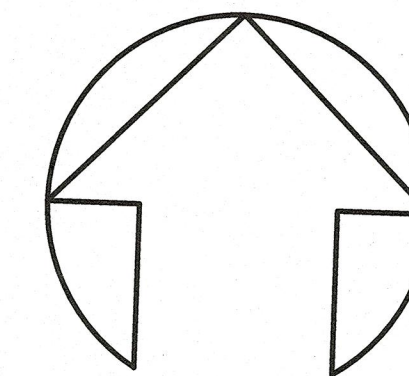
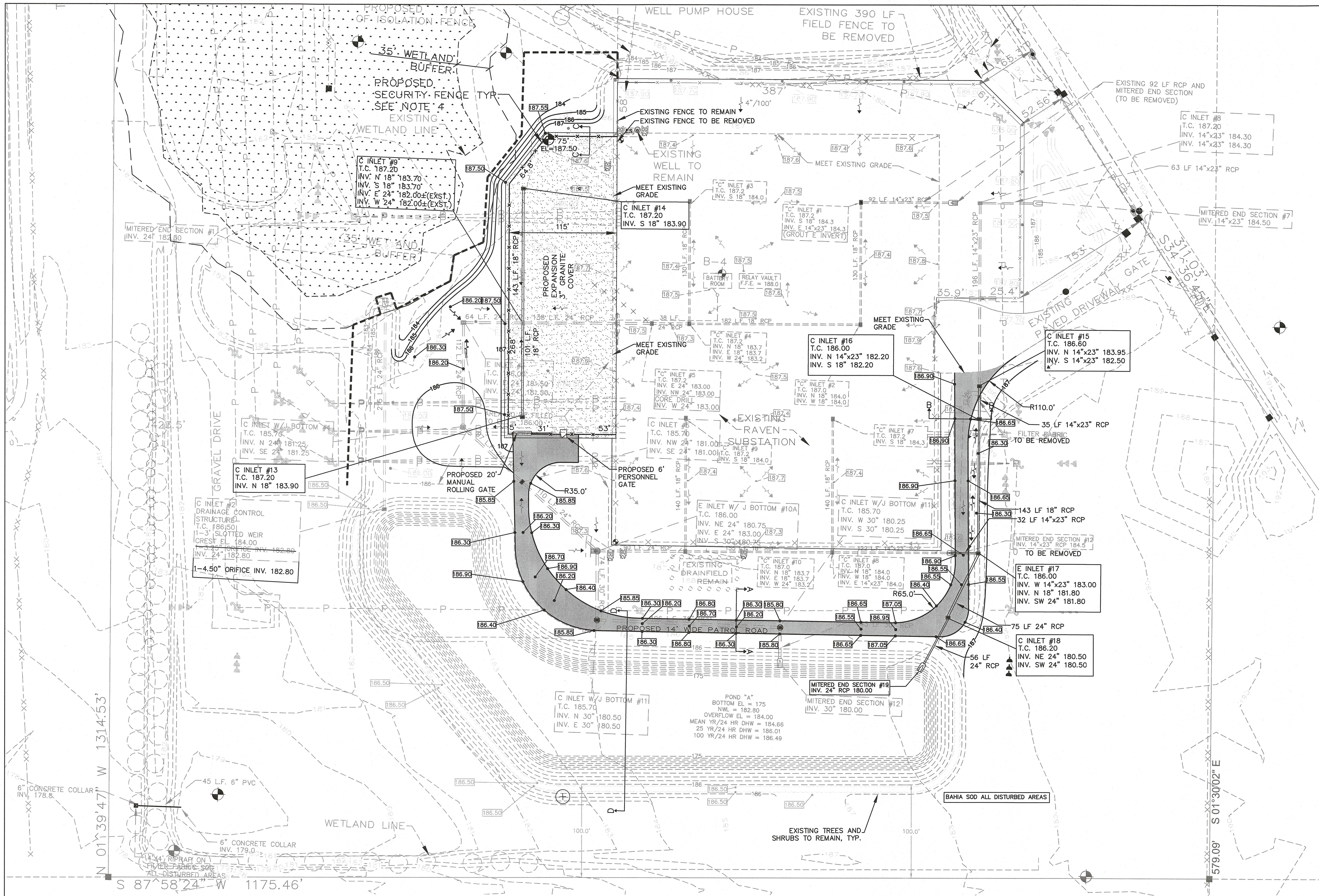
SHEET 1 OF 1

E-RAV01

C A D E

REV NO

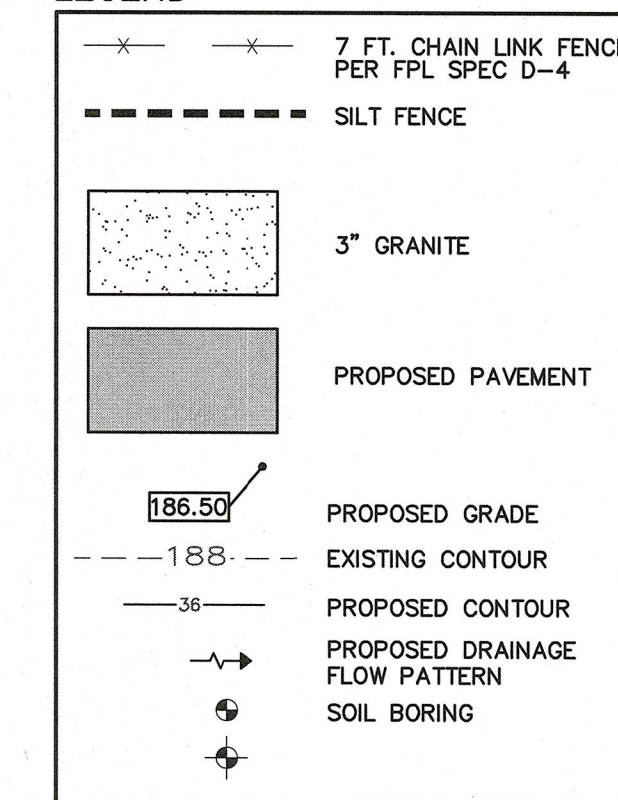




GENERAL NOTES:

1. APPLICANT AND AGENT: BOB BEAULIEU, FOR FLORIDA POWER AND LIGHT, OWNER & DEVELOPER, 700 UNIVERSE BLVD., (T54/JW), JUNO BEACH, FLORIDA 33408. PHONE (561)904-3603.
2. THIS UNMANNED FACILITY WILL BE USED FOR TRANSFORMATION, REGULATION, AND DISTRIBUTION OF ELECTRICITY.
3. FPL CERTIFIES THAT THIS FACILITY WILL BE USED ONLY BY EMPLOYEES, AND THE WORK ASSOCIATED WITH HIGH VOLTAGE ELECTRICAL EQUIPMENT CANNOT REASONABLY BE PERFORMED BY HANDICAPPED PERSONS. PURSUANT TO CHAPTER 553.504(1), OF FLORIDA STATUTES, THIS FACILITY IS NOT SUBJECT TO THE ACCESSIBILITY REQUIREMENTS OF THE ADA.
4. FENCE SHALL BE 7'-0" CHAIN LINK WITH 6 STRANDS OF BARBED WIRE ON "V" EXTENSION ARMS TO MAKE AN OVERALL TOTAL HEIGHT OF 8'-0".
5. THIS FACILITY WILL CONSUME NO UNRECOVERABLE ENERGY AND IS EXEMPT FROM THE FLORIDA ENERGY REVIEW CODE.
6. THIS FACILITY WILL GENERATE NO SOLID WASTE.
7. THIS IS AN UNMANNED RESTRICTED ACCESS FACILITY. NO FPL EMPLOYEES REPORT TO THIS LOCATION AND MAINTENANCE CREWS WILL PARK INSIDE THE FENCED AREA. THEREFORE, NO PARKING SPACES WILL BE PROVIDED.
8. FPL TWO-MAN MAINTENANCE CREWS WILL AVERAGE TWO TRIPS PER MONTH TO THIS FACILITY.
9. USE TWO (2) TWELVE FEET (12 FT) BY FIFTY INCH TALL TARTER GALVANIZED MESH GATE SKU#360294099 FROM TRACTOR SUPPLY CO. WITH RESPECTIVE SPECCO GATE WHEELS ON EACH LEAF SKU#360352289 FROM TRACTOR SUPPLY CO. OR FPL APPROVED EQUIVALENT.
10. INSTALL FIELD FENCE AS CLOSE TO THE PROPERTY LINE AS POSSIBLE.
11. ZONING DISTRICT: AG-3
12. FUTURE LAND USE: AG
13. ADDRESS: TO BE ASSIGNED
14. PARCEL TAX ID NUMBER: 12-4S-17-08323-00HX
15. THIS PROPERTY LIES IN FLOOD ZONE X. PANEL 12023C0315C EFF. 2/4/09

LEGEND



48 HOURS BEFORE DIGGING
CALL SUNSHINE
TOLL FREE
1 800 432 4770
UNDERGROUND UTILITIES NOTIFICATION
CENTER OF FLORIDA

PARKER MYNCHENBERG & ASSOCIATES, INC.

PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
(386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com
CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

NO.	DATE	REVISION
1	04-13-20	ER INO

REVISOR: CH CORIAPP

DATE	03/12/20	SCALE	0 50 100 150
POWER SYSTEMS	DR M. GRECO	ER	
	CH S. BUSWELL	COR	
	APPROVED		

RAVEN SUBSTATION PHASE 2 EXPANSION FENCE, FILL & GRADE PLAN

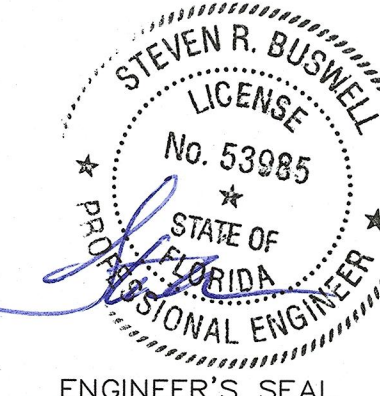
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E-RAV02

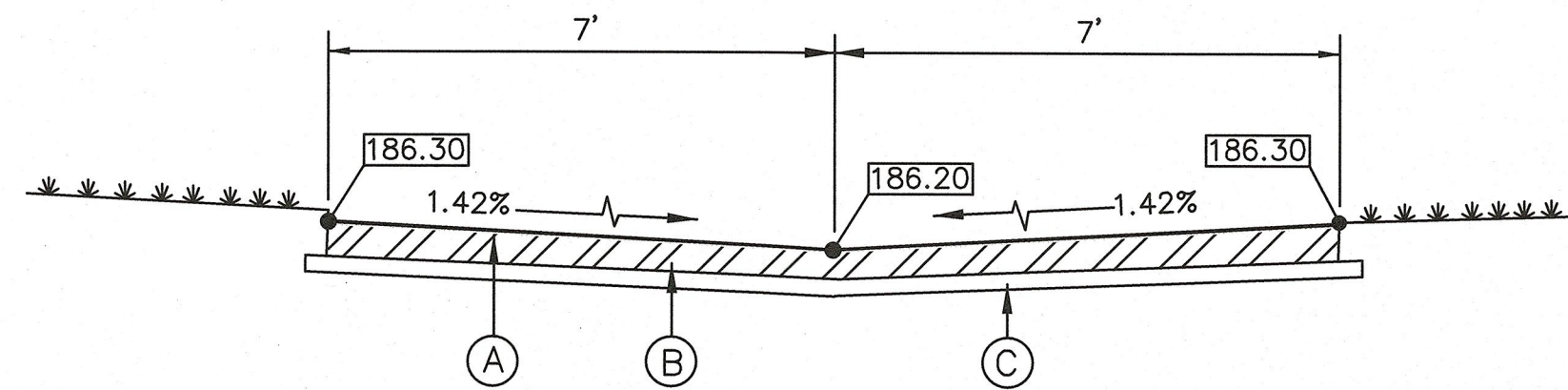
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MAY 15 2020

FPL 026799
20210115-EI

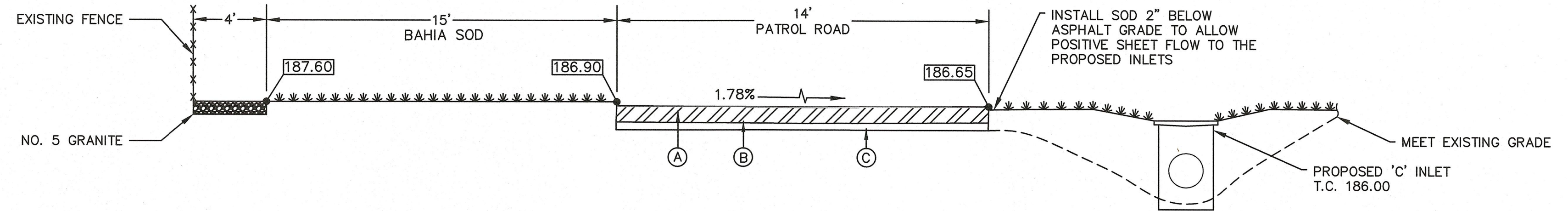


- (A) ASPHALT PAVEMENT:
2" SUPERPAVE ASPHALT CONCRETE TYPE SP-9.5, MINIMUM MARSHALL FIELD STABILITY 1500, COMPACTED TO 98% DENSITY PER FM 1-1238 (METHOD B), NUCLEAR DENSITY TEST, "BACK SCATTER METHOD" AND/OR MINIMUM 90 PERCENT MAXIMUM VOIDLESS SPECIFIC GRAVITY
- (B) BASE:
8" LIMEROCK (LBR 100) OR CRUSHED CONCRETE (LBR 130) COMPACTED TO MINIMUM 98% DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST
NOTE: RECYCLED CONCRETE OR LIMEROCK FOR BASE OR SUBBASE APPLICATIONS SHALL BE ALLOWED ON PARKING AREAS ONLY WHERE THE LOWEST ELEVATION OF THE PARKING SUBGRADE IS A MINIMUM OF 6" ABOVE THE SEASONAL HIGH GROUNDWATER TABLE AS CERTIFIED BY A FLORIDA LICENSED PROFESSIONAL SOILS ENGINEER AND SUBSEQUENTLY APPROVED FOR BY THE CITY. IN AREAS NOT MEETING THESE STANDARDS, A SOIL CEMENT BASE WILL BE REQUIRED.
- (C) SUBGRADE:
12" STABILIZED TO MINIMUM LBR 40 AS SPECIFIED BY FDOT REQUIREMENTS FOR TYPE B STABILIZED SUBGRADE AND COMPACTED TO 98% DENSITY BASED ON MODIFIED PROCTOR MAXIMUM DRY TEST PER AASHTO T-180

NOTES:

- ALL MATERIALS ARE TO BE APPROVED BY THE CITY'S ENGINEER AND THE DEVELOPER'S LICENSED SOILS ENGINEER PRIOR TO PLACEMENT.
- A REPRESENTATIVE OF A CERTIFIED SOIL LABORATORY SHALL BE PRESENT DURING ALL CONSTRUCTION PHASES UTILIZING A SOIL CEMENT BASE.

SECTION A-A
NOT TO SCALE

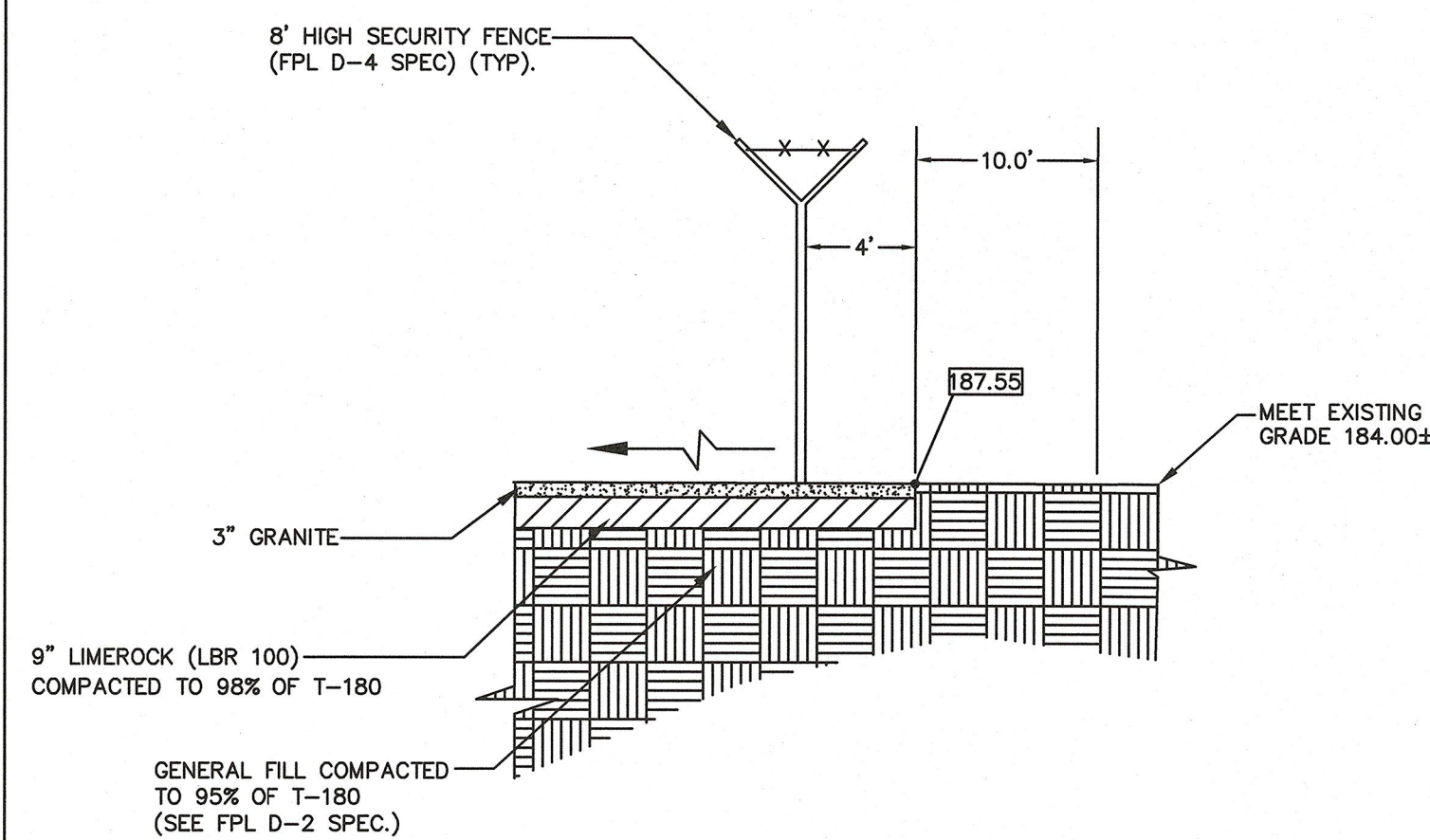


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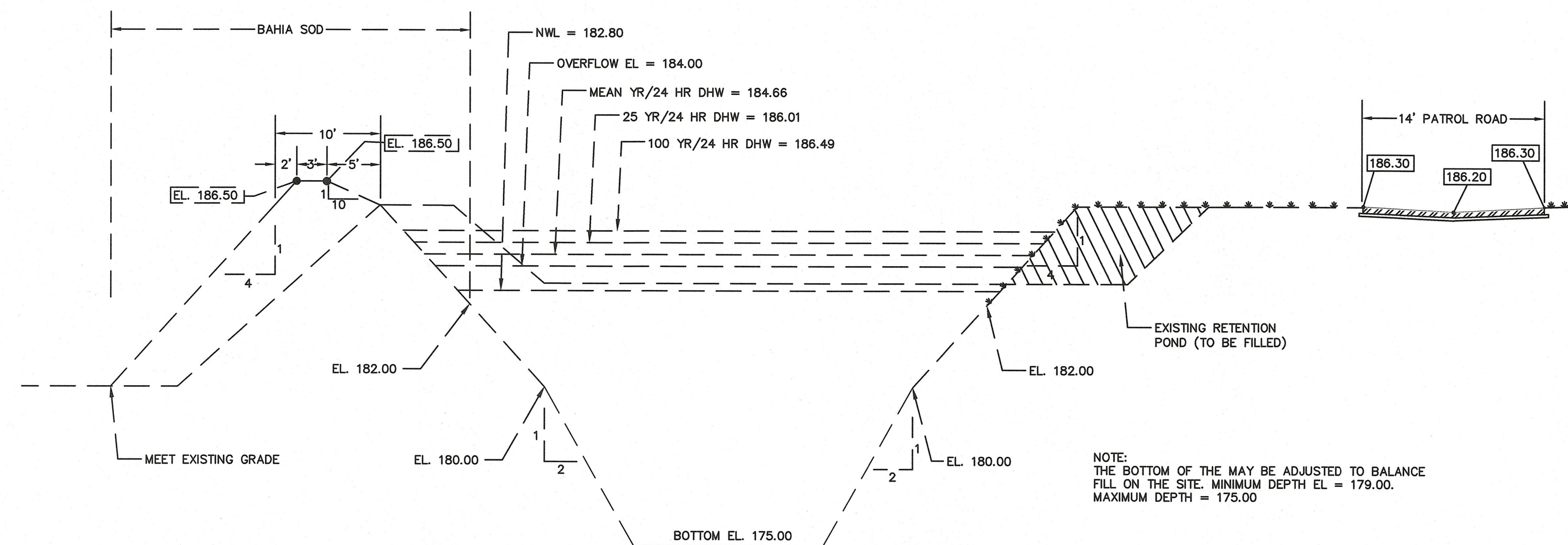
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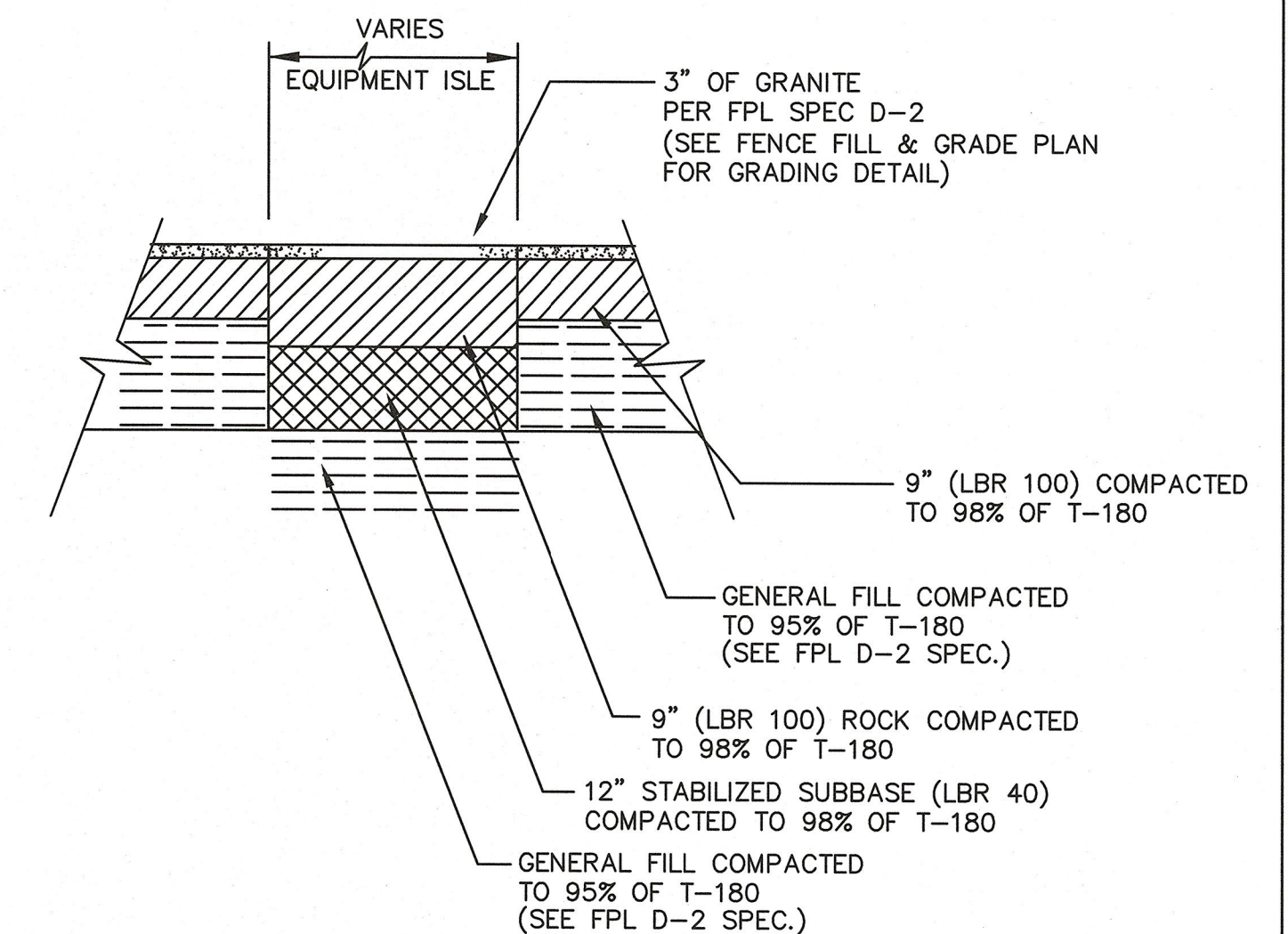
SECTION B-B
NOT TO SCALE



SECTION "C-C"
NOT TO SCALE



SECTION "D-D"
NOT TO SCALE



TYPICAL SECTION THROUGH EQUIPMENT AISLE
NOT TO SCALE

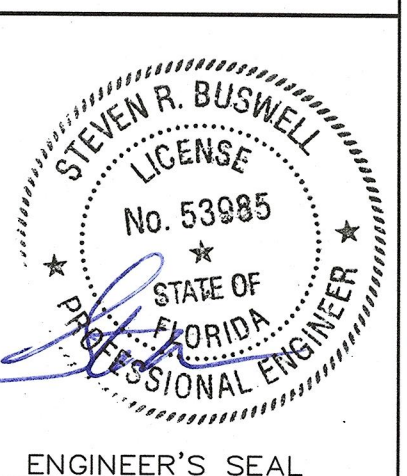
48 HOURS BEFORE DIGGING
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UNDERGROUND UTILITIES NOTIFICATION
CENTER OF FLORIDA

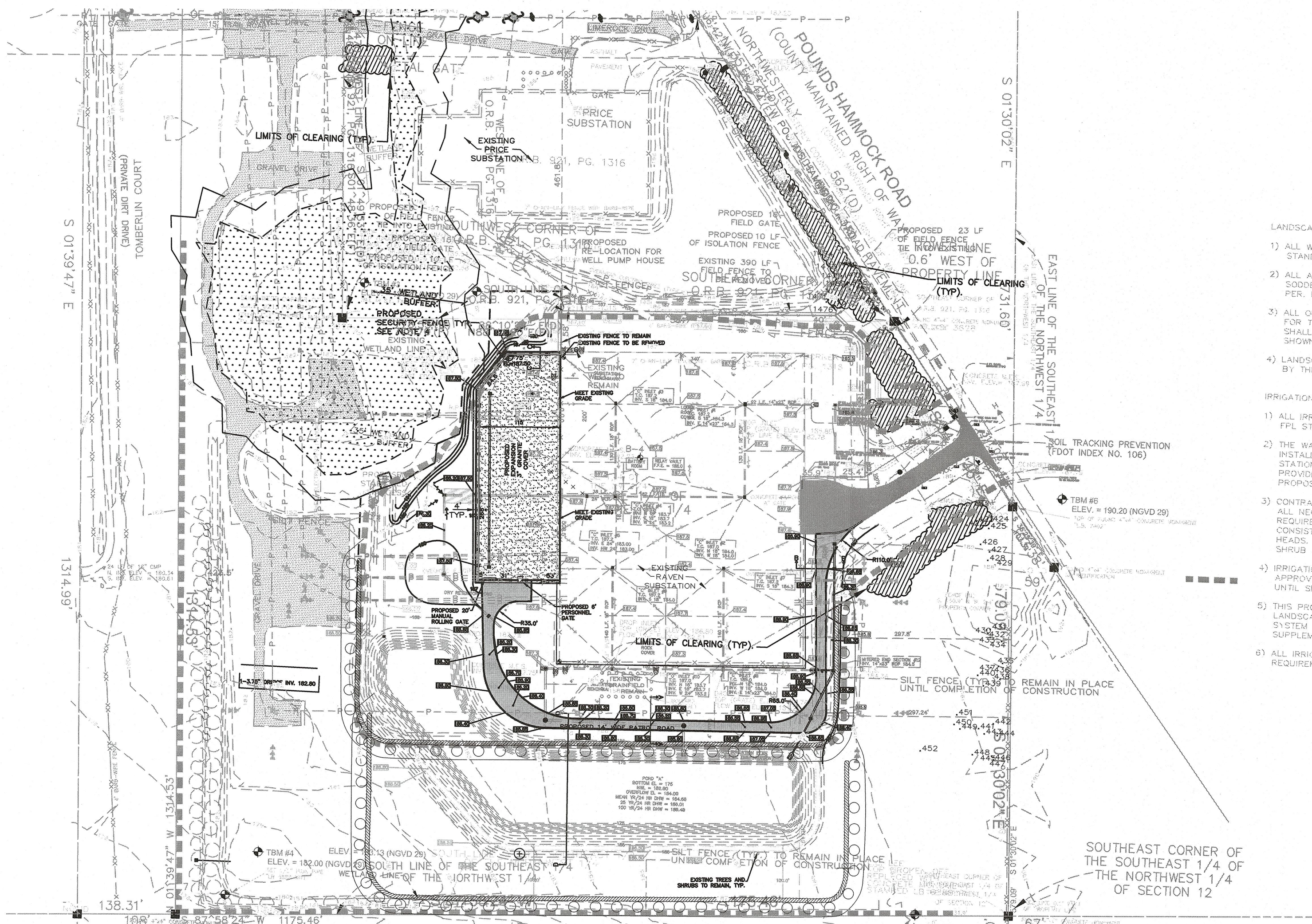
PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
(386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com
CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

DATE	03/12/20	SCALE	0 50 100 150
POWER SYSTEMS	DR M. GRECO	ER	
FPL	CH S. BUSWELL	COR	
	APPROVED		
ER	NO	DATE	04-13-20
		REVISION	REVISED PER FPL REVIEW
		MRB	
		BY	CH
		COR	APP

RAVEN SUBSTATION
PHASE 2 EXPANSION
PAVING AND DRAINAGE DETAILS

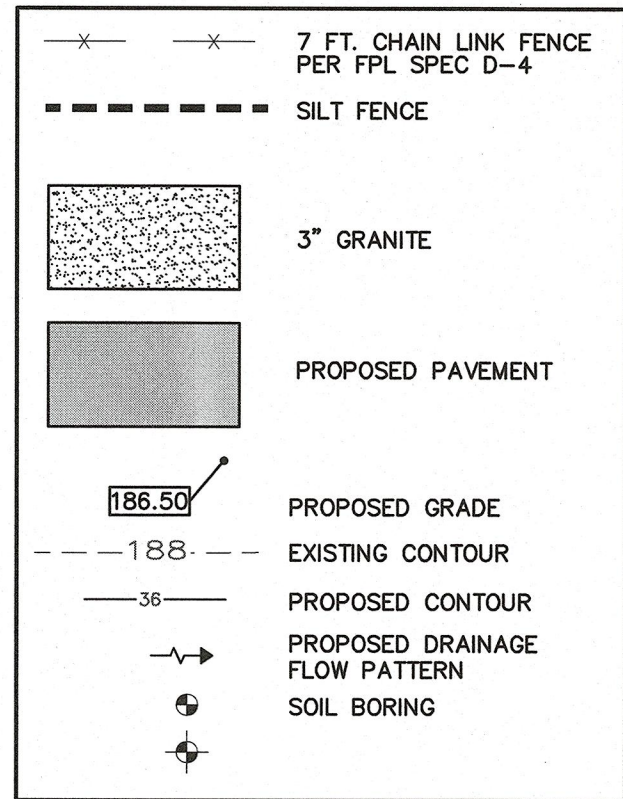
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2 OF 4
REV NO
1
E-RV02





- LANDSCAPE
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 - 2) ALL AF SODS PER F
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 - 4) LANDSC BY THE
- IRRIGATION
- 1) ALL IRR FFL ST
 - 2) THE W/ STATION PROVIDE PROPOS
 - 3) CONTRA ALL NEC REQUIRE, CONSIST HEADS: SHRUB F
 - 4) IRRIGAT APPROVE UNTIL SH
 - 5) THIS PRO LANDSCA SYSTEM: SUPPLI
 - 6) ALL IRRIG REQUIRE

LEGEND



SITE LOCATION:
LAT: 30°09'31\" N
LONG: 82°34'12\" W

EROSION & SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION, SEDIMENTATION, AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
2. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF NATURAL VEGETATION TO THE MAXIMUM EXTENT PRACTICAL DURING THE CONSTRUCTION PROCESS.
3. SILT FENCE AND TURBIDITY BARRIERS SHALL BE INSTALLED PRIOR TO CONSTRUCTION ON SITE, TO BE INSPECTED WEEKLY AND CORRECTIVE ACTION TAKEN AS NECESSARY.
4. STORMWATER RETENTION AND DETENTION STORAGE MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA SERVED BY THOSE SYSTEMS. ADEQUATE MEASURES MUST BE TAKEN TO PREVENT SILTATION OF THESE TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING CONSTRUCTION OR SILTATION MUST BE REMOVED PRIOR TO FINAL GRADING AND STABILIZATION.
5. CONTRACTOR SHALL SOD ALL SWALES AND STORMWATER PONDS IN ACCORDANCE WITH THE DETAIL PROVIDED AS SOON AS POSSIBLE AFTER CONSTRUCTION IN ORDER TO STABILIZE THE SLOPES AND MINIMIZE EROSION.
6. DURING ANY CONSTRUCTION OF THE PERMITTED SYSTEM INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, CONTRACTOR IS RESPONSIBLE FOR THE SELECTION, IMPLEMENTATION, AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ONSITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE.
7. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A PROTECTIVE COVER (VEGETATIVE OR SUITABLE ALTERNATIVE) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT, UNLESS MODIFIED BY ANOTHER CONDITION OF THE PERMIT OR OTHERWISE SPECIFIED ON A DISTRICT APPROVED EROSION AND SEDIMENT CONTROL PLAN. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT VEGETATIVE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF ITS INSTALLATION. THE PERMITTEE'S REQUIREMENT TO MAINTAIN COVER ON OFFSITE SURFACES SHALL NOT BE COMPLETE UNTIL AFTER THE DISTRICT RECEIVES THE PERMITTEE'S STATEMENT OF COMPLIANCE.
8. AT A MINIMUM, TURBIDITY BARRIERS AND SILT FENCES SHALL BE INSTALLED PER PLAN. ADDITIONAL MEASURES MUST BE TAKEN TO MINIMIZE IMPACTS OF RECEIVING WATERS SUCH AS THE USE OF FILTER FABRIC AT INLETS, ADDITIONAL SILT FENCING, AND SODDING.

PREPARED BY CERTIFICATION

STORMWATER POLLUTION PREVENTION PLAN

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

NAME (OPERATOR AND/OR RESPONSIBLE AUTHORITY) _____ DATE _____

PROJECT NAME AND LOCATION INFORMATION

THE PROJECT IS LOCATED WITHIN COLUMBIA COUNTY. A VICINITY MAP IS PROVIDED ON THE COVER SHEET OF THE PLANS.

INCLUDED IN THE CONSTRUCTION PLANS ARE THE FOLLOWING INFORMATION:

1. DRAINAGE PATTERNS,
2. APPROXIMATE SLOPES AFTER MAJOR GRADING ACTIVITIES,
3. AREAS OF SOIL DISTURBANCE,
4. OUTLINE ALL AREAS THAT ARE NOT TO BE DISTURBED,
5. LOCATION OF ALL MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS,
6. THE LOCATION OF EXPECTED STABILIZATION PRACTICES,
7. WETLANDS AND SURFACE WATERS, AND
8. LOCATIONS WHERE STORMWATER MAY DISCHARGE TO SURFACE WATER OR MS4.

CONTRACTOR'S CERTIFICATION

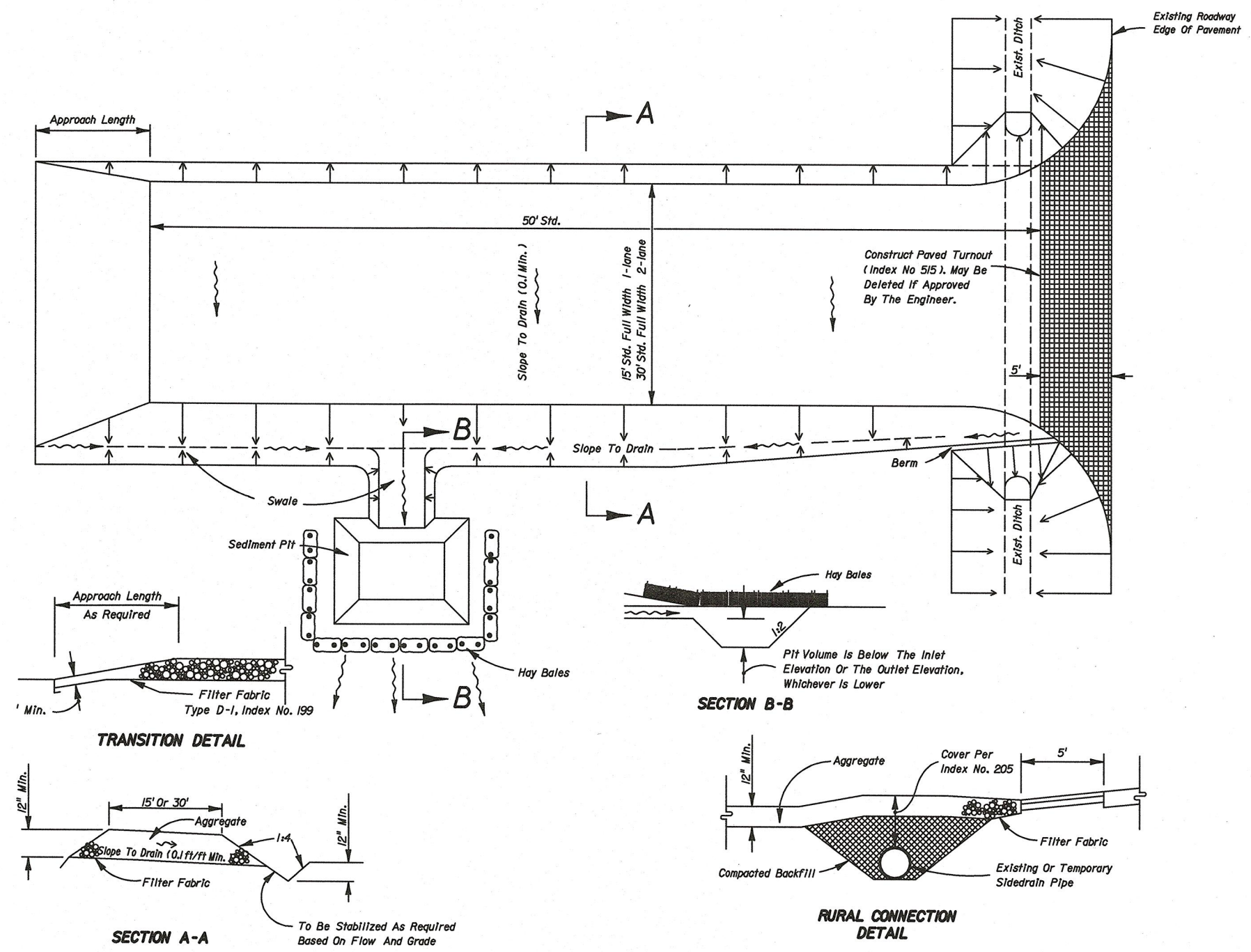
"THIS SWPPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION."

NAME _____
TITLE _____
COMPANY NAME, ADDRESS AND PHONE NUMBER _____
DATE _____

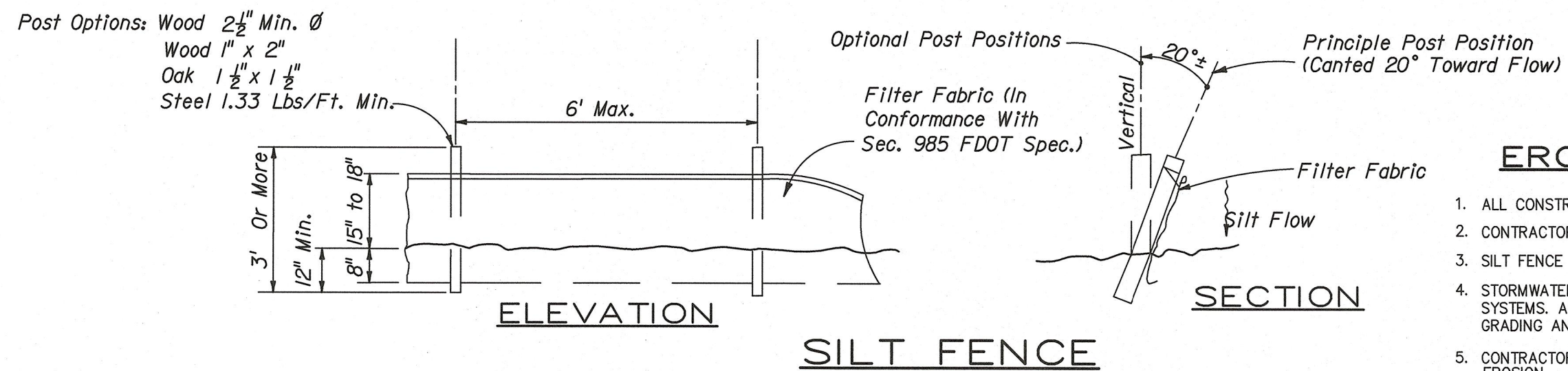
NAME	TITLE	COMPANY NAME, ADDRESS AND PHONE NUMBER	DATE

GENERAL NOTES

1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where offsite tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
2. The Contractor may propose an alternative technique to minimize offsite tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the p and are unsuitable.
5. The sediment pit should provide a retention volume of 3600 cubic feet/capacity of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
15' x 50' x 100 ft³ 30' x 50' x 200 ft³
As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, hay bales or silt fence shall be placed along the entire length.
6. The swale ditch draining the STPD shall have a 0.2% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
7. Filtered and sections are not required when the side drain pipe satisfies the clear zone requirements.
8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent offsite tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD, including but not limited to excavation, grading, temporary pipe (including MES when required), fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Hay bales shall be paid for under the contract unit price for Hay or Straw Bales, EA. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and exiting vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2' for each location.



SOIL TRACKING PREVENTION-FDOT INDEX NO. 106



48 HOURS BEFORE DIGGING
CALL SUNSHINE
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1 800 432 4770
UNDERGROUND UTILITIES NOTIFICATION
CENTER OF FLORIDA

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CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

NO	DATE	REVISION
1	04-13-20	REVISED PER FPL REVIEW

DATE 03/12/20	SCALE 0 100 200 300
POWER SYSTEMS	DR M. GRECO ER
FPL	CH S. BUSWELL COR
	APPROVED

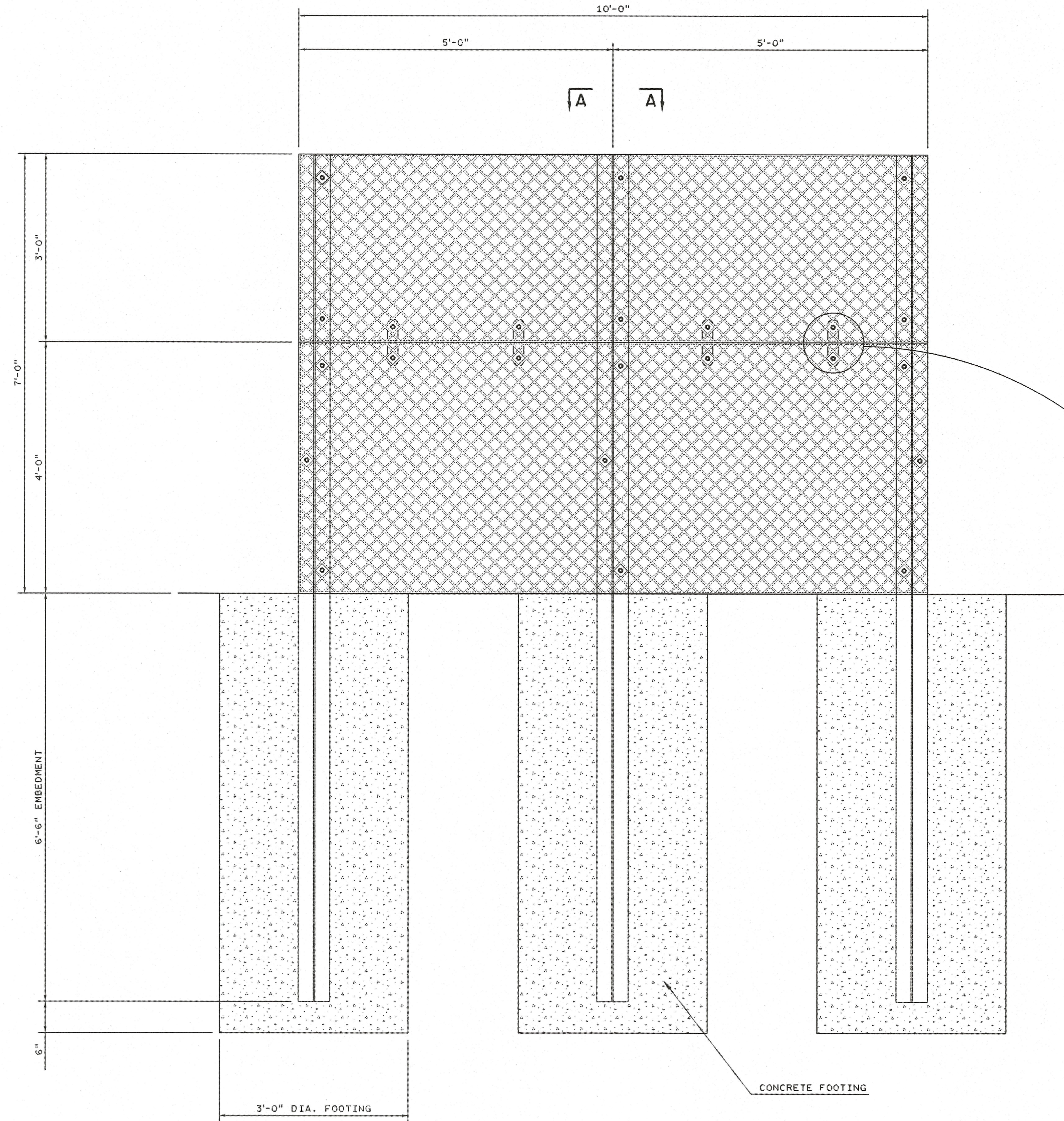
**RAVEN SUBSTATION
PHASE 2 EXPANSION
STORMWATER PREVENTION &
POLLUTION CONTROL PLAN**

(SU,G,FF)
4 OF 4
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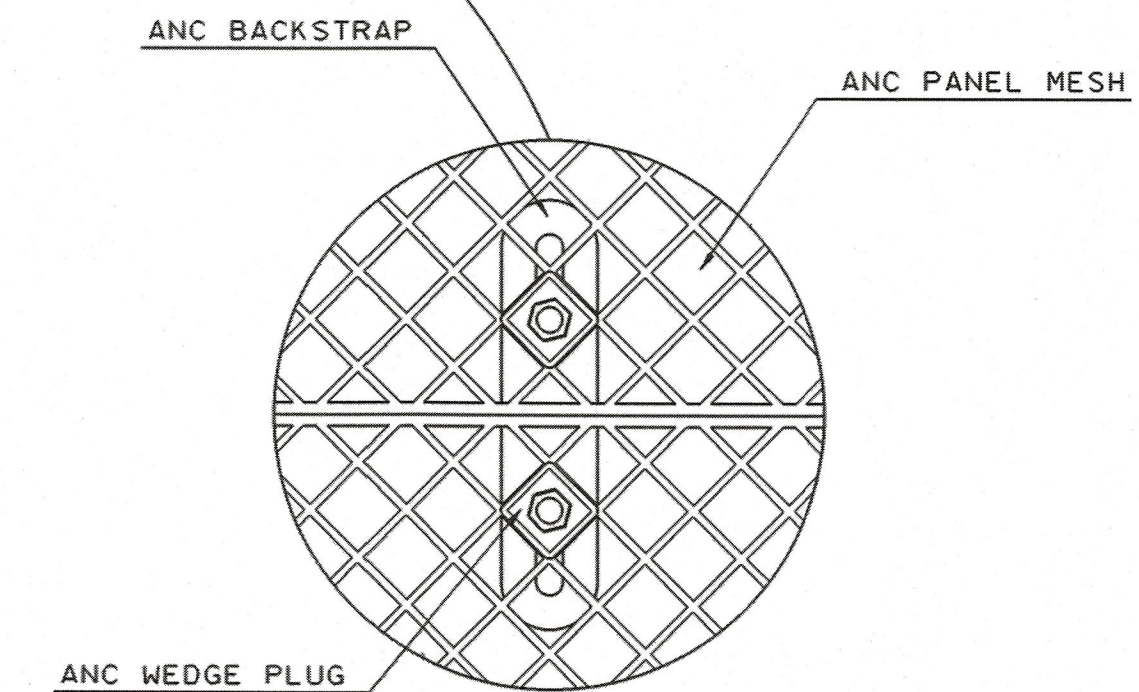
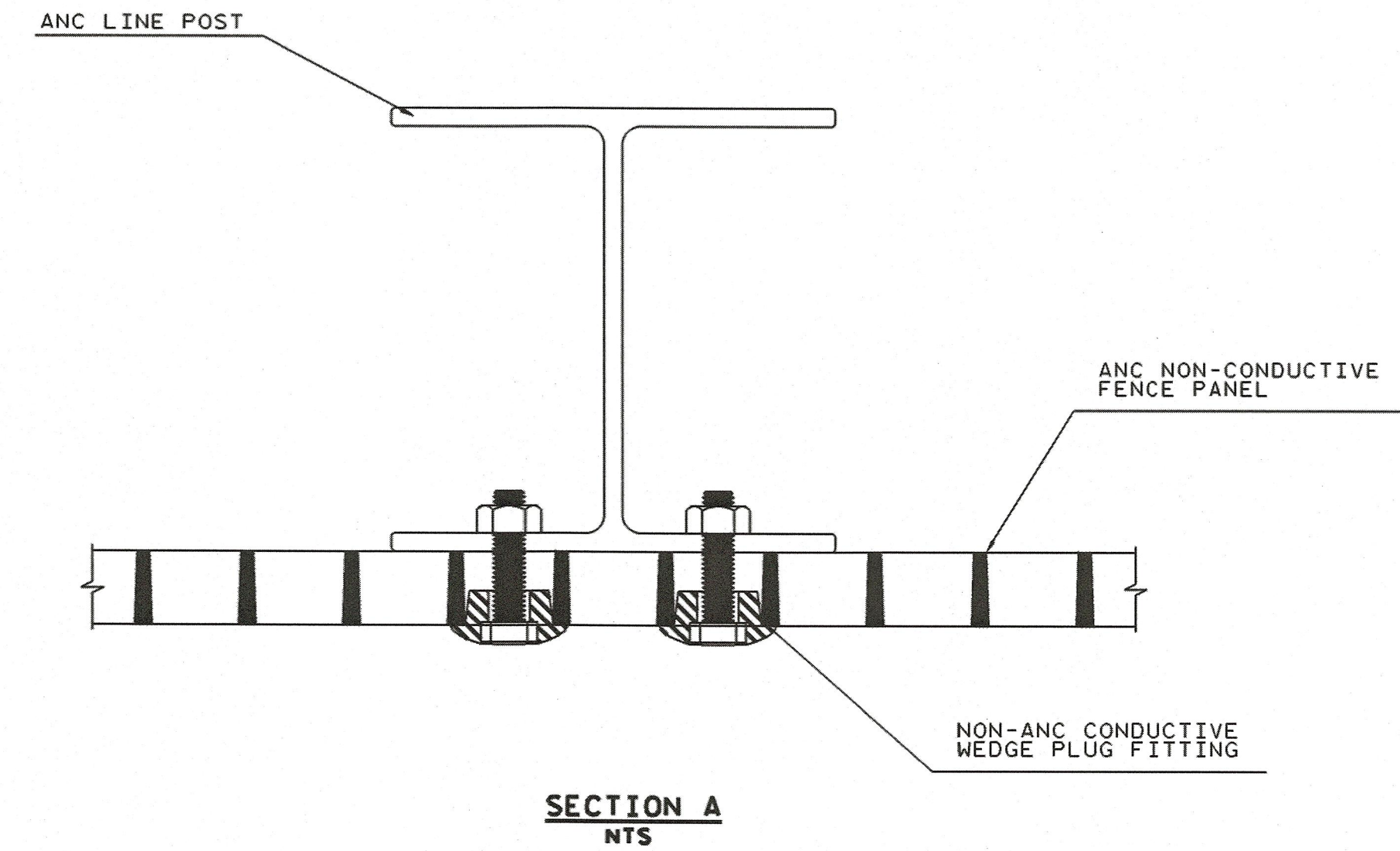
STEVEN R. BUSWELL
LICENSE
No. 53985
STATE OF FLORIDA
PROFESSIONAL ENGINEER
ENGINEER'S SEAL

MAY 15 2020

SEAL
FPL 02680.
20210015-E



7'-0" TALL ANC ISOLATION FENCE SECTION ELEVATION
NTS



ISOLATION FENCE BY SEASAFE ANC FENCING & GATE SYSTEMS. LOCATED AT 209 GLASER DRIVE LAFAYETTE, LA, 70508.
CONTACT OLIVIA HERNANDEZ AT 1-800-326-8842, 1-337-406-2345 OR EMAIL TO OHERNANDEZ@GIBRALTARI.COM.
DETAILS PROVIDED IN THIS PLAN SET ARE SPECIFICALLY FOR THIS NON-CONDUCTIVE FENCE MANUFACTURER. NO
DEVIATION ARE ALLOWED UNLESS DRAWINGS AND CALCULATIONS ARE PROVIDED FOR REVIEW AND APPROVAL.

NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH FPL FENCING SPECIFICATION D-4 AS APPLICABLE.
2. ALL BOLTS, NUTS, WASHERS, ETC. SHALL BE FRP AS APPROVED BY ANC FENCING. NO METAL PRODUCT IN ISOLATION FENCE.
3. FOUNDATION AND POST CONCRETE SHALL BE F'C = 4,000 PSI 5" MAX. SLUMP. W/C RATIO MAX. OF .50.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR FPL APPROVAL PRIOR TO FABRICATION.
5. CONTRACTOR SHALL MINIMIZE FIELD WELDING. ALL FIELD WELDS SHALL BE CLEANED/PING AND COATED WITH COLD GALVANIZING MATERIAL ZRC M&S#504-148-119. BRUSH ON COLD GALVANIZING COMPOUND ONLY SHALL BE UTILIZED. FOLLOW MANUFACTURERS INSTRUCTIONS.
6. ACTIVE SUBSTATIONS SHALL BE SECURED AT ALL TIME. TEMPORARY FENCING SHALL BE INSTALLED AS NECESSARY TO SECURE THE SITE.
7. SUBSTATION SHALL BE ACCESSIBLE FOR EMERGENCY OPERATIONS AT ALL TIMES DURING CONSTRUCTION.
8. CONTRACTOR SHALL OBTAIN FENCE PERMIT AS REQUIRED BY LOCAL BUILDING CODES.
9. GATES SHALL BE DESIGNED TO WITHSTAND 194 MPH ULT. WIND VELOCITY IN ACCORDANCE WITH ASCE 7-16 AND FBCB 2017.

ER	NO	DATE
1	04-13-20	

REVISED PER FPL REVIEW
REVISION

MRB	BY	CH	COR	APP

DATE 04-08-19	SCALE 0 1 1.5 2 3
POWER DELIVERY	DR VALENTIN ER
	CH COR
	APPROVED

SUBSTATION STANDARDS
NON-CONDUCTIVE FENCE
INSTALLATION DETAILS

(SU, G, PP)

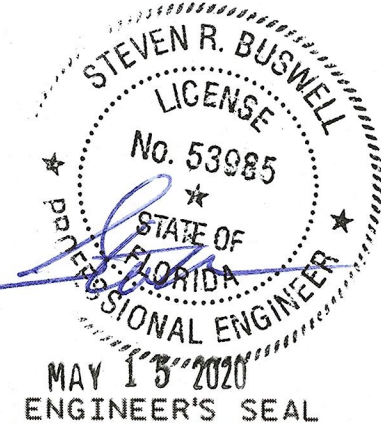
SHEET 7 OF 7

E-216798

CADE

REV NO

FOR BIDDING
PURPOSES ONLY



CONSTRUCTION COMMENCEMENT NOTICE

Instructions: In accordance with Chapter 62-330.350(1)(d), F.A.C., complete and submit this form at least 48 hours prior to commencement of activity authorized by permit.

Permit No. _____ Application No. _____
Project _____
Name _____ Phase _____

Construction of the system authorized by the above referenced Environmental Resource
Permit and Application, is expected to commence on _____, 20____
and will have an estimated completion date of _____, 20____

PLEASE NOTE: If the actual construction commencement date is not known within 30 days of issuance of the permit, District staff should be so notified in writing. As soon as a construction commencement date is known, the permittee shall submit a completed construction commencement notice form.

_____ Permittee's or Authorized Agent's Signature	_____ Company	
_____ Print Name	_____ Title	_____ Date
_____ E-mail	_____ Phone Number	



As-Built Certification And Request for Conversion to Operation Phase

Instructions: Complete and submit this page within 30 days of completion of the entire project, or any independent portion of the project, as required by the permit conditions. The operation phase of the permit is effective when the construction certification for the entire permit/application is approved by the Agency. If the final operation and maintenance entity is not the permittee, the permittee shall operate the project, system, works, or other activities temporarily until such time as the transfer to the operation entity is finalized (use Form 62-330.310(2)).

Permit No: _____ Application No: _____ Permittee: _____
Project Name: _____ Phase or Independent Portion (if applicable): _____

I HEREBY CERTIFY THAT (please check only one box):

- ☐ To the best of my knowledge, information, and belief, construction of the project has been completed in substantial conformance with the plans specifications and conditions permitted by the Agency. Any minor deviations will not prevent the project from functioning in compliance with the requirements of Chapter 62-330, F.A.C. Attached are documents to demonstrate satisfaction of the outstanding permit conditions, other than long term monitoring and inspection requirements.
- ☐ Construction of the project was NOT completed in substantial conformance with the plans and specifications permitted by the Agency. Any deviations or independent phasing will not prevent the project from functioning in compliance with the requirements of Chapter 62-330, F.A.C. (Contact the permitting agency to determine whether a modification of the permit will be required in accordance with Rule 62-330.315, F.A.C.) Attached is a description of substantial deviations, a set of as-built drawings, and documents to demonstrate satisfaction of the outstanding permit conditions, other than long term monitoring and inspection requirements.
- ☐ Construction of the project was NOT completed in substantial conformance with the plans and specifications permitted by the Agency. There are substantial deviations that prevent the project from functioning in compliance with the requirements of Chapter 62-330, F.A.C. I acknowledge that corrections to the project and/or a modification of the permit will likely be required, and that conversion to the operation phase cannot be approved at this time. As-built or record drawings reflecting the substantial deviations are attached.

For activities that require certification by a registered professional:

By: _____ (Print Name) (Fla. Lic. or Reg. No.)
Signature
(Company Name) (Company Address)
(Telephone Number) (Email Address)

AFFIX SEAL

(Date)

For activities that do not require certification by a registered professional:

By: _____ (Print Name)
Signature
(Company Name) (Company Address)



(Telephone Number)

(Email Address)

(Date)



Drawings and Information Checklist

Following is a list of information that is to be verified and/or submitted by the Registered Professional or Permittee:

1. All surveyed dimensions and elevations shall be certified by a registered Surveyor or Mapper under Chapter 472, F.S.
2. The registered professional's certification shall be based upon on-site observation of construction (scheduled and conducted by the registered professional of record or by a project representative under direct supervision) and review of as-built drawings, with field measurements and verification as needed, for the purpose of determining if the work was completed in accordance with original permitted construction plans, specifications, and conditions.
3. If submitted, the as-built drawings are to be based on the permitted construction drawings revised to reflect any substantial deviations made during construction. Both the original design and constructed condition must be clearly shown. The plans need to be clearly labeled as "as-built" or "record" drawings that clearly highlight (such as through "red lines" or "clouds") any substantial deviations made during construction. As required by law, all surveyed dimensions and elevations required shall be verified and signed, dated, and sealed by an appropriate registered professional. The following information, at a minimum, shall be verified on the as-built drawings, and supplemental documents if needed:
 - a. Discharge structures - Locations, dimensions and elevations of all, including weirs, orifices, gates, pumps, pipes, and oil and grease skimmers;
 - b. Detention/Retention Area(s) – Identification number, size in acres, side slopes (h:v), dimensions, elevations, contours, or cross-sections of all, sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems,
 - c. Side bank and underdrain filters, or exfiltration trenches - locations, dimensions, and elevations of all, including clean-outs, pipes, connections to control structures, and points of discharge to receiving waters;
 - d. System grading - dimensions, elevations, contours, final grades, or cross-sections to determine contributing drainage areas, flow directions, and conveyance of runoff to the system discharge point(s);
 - e. Conveyance - dimensions, elevations, contours, final grades, or cross-sections of systems utilized to divert off-site runoff around or through the new system;
 - f. Benchmark(s) - location and description (minimum of one per major water control structure);
 - g. Datum- All elevations should be referenced to a vertical datum clearly identified on the plans, preferably the same datum used in the permit plans.
4. Wetland mitigation or restoration areas - Show the plan view of all areas, depicting a spatial distribution of plantings conducted by zone (if plantings are required by permit), with a list showing all species planted in each zone, numbers of each species, sizes, date(s) planted, and identification of source of material; also provide the dimensions, elevations, contours, and representative cross-sections depicting the construction.
5. A map depicting the phase or independent portion of the project being certified, if all components of the project authorized in the permit are not being certified at this time.
6. Any additional information or outstanding submittals required by permit conditions or to document permit compliance, other than long-term monitoring or inspection requirements.

OPERATION AND MAINTENANCE INSPECTION CERTIFICATION

Instructions: Submit this form to the Agency within 30 days of completion of the inspection after any failure of a stormwater management system or deviation from the permit. This form may also be used to document inspections required under Section 12.4 of Applicant's Handbook Volume I, however submittal to the Agency is not required unless requested by the Agency.

Permit No.: _____ Application No.: _____ Date Issued: _____

Identification or Name of Stormwater Management System: _____

Phase of Stormwater Management System (if applicable): _____

Inspection Date: _____

Inspection results: (check all that apply)

☐ The undersigned hereby certifies that the works or activities are functioning in substantial conformance with the permit. This certification is based upon on-site observation of the system conducted by me or my designee under my direct supervision and my review of as-built plans.

☐ The following maintenance was conducted since the last inspection (attach additional pages if needed):

☐ The undersigned hereby certifies that I or my designee under my direct supervision has inspected this surface water management system and the system does not appear to be functioning in substantial conformance with the permit. I am aware that maintenance or alteration is required to bring the system into substantial compliance with the terms and conditions of the permit. As appropriate, I have informed the owner of the following:

- (a) The system does not appear to be functioning properly;
- (b) That maintenance or repair is required to bring the system into compliance; and
- (c) If maintenance or repair measures are not adequate to bring the system into compliance, the system may have to be replaced or an alternative design constructed subsequent to approval by the agency below.

The following components of the system do not appear to be functioning properly (attach additional pages if needed):

Any components of the constructed system that are not in substantial conformance with the permitted system shall require a written request to modify the permit in accordance with the provisions of Rule 62-330.315, F.A.C. If such modification request is not approved by the agency below, the components of the system that are not in conformance with the permit are subject to enforcement action under Sections 373.119, .129, .136, and .430, F.S.



Name of Inspector: _____ Florida Registration Number: _____

Company Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Fax: _____ Email: _____

Signature of Inspector Date

Report Reviewed by Permittee:

Name of Permittee: _____

Signature of Permittee Date

Title (if any)