



FLORIDA DEPARTMENT OF Environmental Protection

Northwest District
160 W. Government Street, Suite 308
Pensacola, FL 32502

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

Attachment I

Permittee/Authorized Entity:

Leon County Public Works
c/o Charles Wu
2280 Miccosukee Road
Tallahassee, Florida 32308, Leon County
wuc@leoncountyfl.gov

Apalachee Parkway Regional Park

Authorized Agent:

Benjamin R. Lennon
DRMP, Inc.
2882 Remington Green Circle
Tallahassee, Florida 32308
blennon@drmp.com

Environmental Resource Permit

State-owned Submerged Lands Authorization – Not Applicable

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

Leon County
Permit No.: 0235665-002-EI/37

Permit Issuance Date: October 24, 2019
Permit Construction Phase Expiration Date: October 23, 2024

Environmental Resource Permit

Permittee: Leon County
Permit No: 0235665-002-EI/37

PROJECT LOCATION

The activities authorized by this permit are located at 7550 Apalachee Parkway, Tallahassee, Florida 32311, Parcel ID 32-04-20-851-0000, in Section 05, Township 01 South, Range 02 East in Leon County, at 30°25'20.2878" North Latitude, 84°09'06.6097" West Longitude.

PROJECT DESCRIPTION

The permittee is authorized to construct an operations building, associated amenities and a stormwater management facility, four overlook platforms and a floating kayak/canoe boat launch within a public park. The kayak/canoe launch and one of the overlook platforms are located within the landward extent of unnamed wetlands associated with Lake Lafayette, a Class III Florida Waterbody. Authorized activities are depicted on the attached exhibits.

AUTHORIZATIONS

Apalachee Parkway Regional Park

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 **shall be required** from the U.S. Army Corps of Engineers (Corps). You must apply separately to the Corps using the federal application form (ENG 4345). More information about Corps permitting may be found online in the Jacksonville District Regulatory Division Sourcebook. **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 Corps 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 CONDITIONS

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/EMERGENCIES

1. The permittee shall be responsible for keeping records documenting that relevant permit conditions are met. This documentation shall include, at a minimum, the date of each inspection, the name and qualifications of the inspector, any maintenance actions taken, and a determination by the inspector as to whether the system is operating as intended. Inspection documentation must be readily available and shall be provided at the Department's request. Submittal of the inspection documentation to the Department is not required.
2. Within 30 days of any failure of a stormwater management system or deviation from the permit, a report shall be submitted to the Department on Form 62-330.311(1), Operation and Maintenance Inspection Certification, describing the remedial actions taken to resolve the failure of deviation. This report shall be signed and sealed by a registered professional.

3. The construction phase expires at 11:59 p.m. on the date indicated on the cover page of this permit, unless an application for extension is received and approved pursuant to Rule 62-330.320, F.A.C. If construction of the stormwater management system authorized by this environmental resource permit has not been completed and continued use of the system formally transferred to the operating phase before the expiration date of the permit, or an authorized extension, then at least 60 days before such expiration date, the permittee shall apply for another individual stormwater permit, using the forms and accompanied by the fee required by rules in effect at that time.
4. For emergencies involving a serious threat to the public health, safety, welfare, or environment, the emergency telephone contact number is (800) 320-0519 (State Warning Point). The Department telephone number for reporting nonthreatening problems or system malfunctions is (850) 595-0663, day or night.
5. The mailing address for submittal of forms for the “Construction Commencement Notice”, “As-Built Certification ...”, “Request for Conversion of Stormwater Management Permit Construction Phase to Operation and Maintenance Phase”, or other correspondence is FDEP, SLERP, 160 W Government Street, Pensacola, FL 32502.

SPECIFIC CONDITIONS – PRIOR TO ANY CONSTRUCTION

6. Best management practices for erosion control shall be implemented prior to construction activities and maintained at all times during construction to prevent siltation and turbid discharges into adjacent wetlands. Methods shall include but are not limited to the use of staked hay bales, staked filter cloth, sodding, seeding, and mulching; staged construction; and the installation of turbidity screens around the immediate project site. Erosion control methods shall be implemented as described and shown in the attached permit drawings. The permittee shall be responsible for ensuring that erosion control devices/procedures are inspected and maintained daily during all stages of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.
7. Prior to any construction or impacts authorized by this permit, the limits of impact shall be clearly marked in a way which is visible and obvious to anyone performing work on-site, including someone operating heavy equipment. Orange construction fence or tall flagged stakes along the construction limits are possible methods.
8. If any construction de-watering is required, which results in an offsite discharge of groundwater, the permittee and/or the contractor shall ensure that the requirements of pertinent portions of Chapter 62-621, F.A.C. are met. Please contact Bill Evans, P.E., at 850-595-0584, for more information.

SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES

9. This permit does not authorize the construction of any additional structures or dredging or filling of wetlands not illustrated on the permit drawings.
10. Construction equipment shall not be repaired or refueled in wetlands or elsewhere within waters of the state.

11. Erosion controls shall remain in place until the filled area has sufficient vegetative coverage to ensure stability and prevent erosion into the surrounding wetlands or surface waters. Grass seed and mulch or sod shall be installed and maintained on all exposed slopes and disturbed soil areas within 48 hours of completing final grade, and at any other time as necessary, to prevent erosion, sedimentation, or turbid discharges into adjacent wetlands. A vegetative cover that stabilizes and prevents erosion of the fill material shall be established within 60 days of sodding or seeding. Upon establishment of a substantial vegetative cover, all erosion control devices shall be removed.

12. Any damage to wetlands outside of the authorized impact areas as a result of construction shall be immediately reported to the Department at (850)595-8300 and repaired by reestablishing the pre-construction elevations and replanting vegetation of the same species, size, and density as that in the adjacent areas. The restoration shall be completed within 30 days of completion of construction, and the Department shall be notified of its completion within that same 30-day period.

13. The following measures shall be taken immediately by the permittee when turbidity levels within waters of the State surrounding the project site exceed 29 NTUs above background:

- a. Immediately cease work contributing to the water quality violation.
- b. Stabilize exposed soils contributing to the violation. Modify the work procedures responsible for the violation, install additional turbidity containment devices and repair non-functioning turbidity containment devices.
- c. Notify the Department within 24 hours of the time the violation is first detected.

14. All material used as fill shall be clean sand/fill dirt/shell material and shall not be contaminated with vegetation, garbage, trash, tires, hazardous waste, and deleterious materials.

15. Dredging within wetlands or other surface waters for the purpose of providing backfill is prohibited.

16. The permittee shall be responsible for ensuring that erosion control devices/procedures are inspected and maintained daily during all phases of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

17. There shall be no storage or stockpiling of tools, materials (i.e. lumber, pilings, debris) within wetlands or elsewhere within waters of the state.

18. All cleared vegetation, excess lumber, scrap wood, trash, garbage and any other type of debris shall be removed from wetlands/waters of the state within 14 days of completion of the work authorized in this permit.

SPECIFIC CONDITIONS – OTHER LISTED SPECIES

19. This permit does not authorize the permittee to cause any adverse impact to or “take” of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for

definitions of “take” and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a “take” permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

SPECIFIC CONDITIONS – OPERATION AND MAINTENANCE ACTIVITIES

20. The permittee shall install and maintain reflective markers on the waterward corners of the floating dock. The reflective markers shall be maintained for the life of the facility.

21. The stormwater management systems shall be inspected by a registered professional to evaluate whether the system is functioning as designed and permitted. Percolation performance should specifically be addressed. The registered professional may record his inspection on Form No. 62-330.311(1), Operation and Maintenance Inspection Certification or may provide his evaluation in any other format; however, any report must be signed and sealed by the registered professional. Submittal of the inspection report to the Department is not required; but the report shall be made available to the Department upon request. Inspections shall be made by the registered professional in accordance with this schedule:

For Dry Retention with Underdrain:

- a. On the first anniversary of the date of conversion to Operation and Maintenance Phase.
- b. Every fifth year on the anniversary of conversion to Operation and Maintenance phase, after the first year of successful operation.

22. The Stormwater Operation and Maintenance Plan, as approved and enclosed with this permit, shall be implemented.

23. Percolation performance shall be evaluated within the pond at least every third year. If there is evidence of inadequate percolation, the pond bottom must be re-scarified or deep-raked to restore percolation characteristics. If reworking the pond bottom fails to restore adequate percolation, additional retention area restoration shall be performed as follows:

- a. Remove the top layer of the retention area bottom material to a depth of 2 to 3 inches and scarify or deep-rake the excavated bottom.
- b. Replace excavated bottom material with suitably permeable material and restore the pond bottom to design grade.

24. All structures authorized by this permit shall remain in operable condition and shall not be allowed to deteriorate or otherwise contribute to a water quality violation for the life of the facility. All stormwater structures identified by this permit shall be maintained in proper working order for the life of the facility.

25. Inspections by the Permittee:

- a. The stormwater system shall be inspected periodically for accumulation of debris and trash. Accumulations of debris and trash that negatively affect the function of the system shall be removed upon discovery.
- b. The stormwater system shall be inspected periodically for silt accumulation. Accumulations of silt that negatively affect the function of the system shall be removed.

26. Within 30 days of any failure of a stormwater management system or deviation from the permit, a report shall be submitted to the Department on Form 62-330.311(1), Operation and Maintenance Inspection Certification, describing the remedial actions taken to resolve the failure or deviation. This report shall be signed and sealed by a registered professional.

27. If during construction or operation of the stormwater management system, a structural failure is observed that has the potential to cause the direct discharge of surface water into the Floridian Aquifer System, corrective actions designed or approved by a registered professional shall be taken as soon as practical to correct the failure. A report prepared by a registered professional must be provided as soon as practical to the Department for review and approval that provides reasonable assurance that the breach will be permanently corrected.

28. If unanticipated limestone formations are encountered during construction of the retention basins, or sinkhole or solution cavity forms during construction, construction of the basin must be halted immediately, and the Department must be notified. Remedial action will be required.

29. The permittee must visually inspect all permitted stormwater systems at least annually for the occurrence of sinkholes and keep reports of these inspections. Submittal of the reports to the District is not required; however they should be made available to the District upon request.

30. Prior to installation of the filter media, the permittee shall submit test results, from a certified independent laboratory, of the media material that will be used in construction of the stormwater treatment system, to the Department for review and approval. The test shall address the following filter media parameters; uniformity coefficient effective grain size, sieve analysis, percent silts, clays, and organic matter, and permeability test (constant head). If the test results indicate that the actual permeability rate is less than the value used in the permitted design or if any of the parameters do not meet the design standards listed in the Applicant's Handbook, then a permit modification will be required to bring the treatment system into compliance.

31. The engineer of record shall certify that the filter media used in construction of the treatment system is of same source as material used for the certified laboratory test.

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 an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex – "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 - b. For all other activities – "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
 - c. 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.

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 a subsequent order of the Department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

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@FloridaDEP.gov. 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 to 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@FloridaDEP.gov, 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.

Thank you for applying to the Submerged Lands and Environmental Resource Permit Program. If you have any questions regarding this matter, please contact Diana Athnos at the letterhead address, at (850)595-0557, or at diana.athnos@FloridaDEP.gov

EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Kimberly R. Allen
Permitting Program Administrator

KRA:da

Attachments:

- Exhibit #1, Wetland Impact and Dock Drawings and Design Specs., 8 pages
- Exhibit #2, Stormwater Construction Plans, 32 pages
- Exhibit #3, Operation and Management Plan, 6 pages

Copies of 62-330 forms may be obtained at: <https://floridadep.gov/water/submerged-lands-environmental-resources-coordination/content/forms-environmental-resource>

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:

- Kimberly R. Allen, DEP, Kim.Allen@FloridaDEP.gov
- Blake Chapman, DEP, blake.a.chapman@floridadep.gov
- Tanya McHale, DEP, Tanya.McHale@FloridaDEP.gov
- Diana Athnos, DEP, Diana.Athnos@dep.state.fl.us
- Benjamin Lennon, DRMP, Inc., blennon@drmp.com
- Anna Wickman, Florida Environmental & Land Services, Inc., awickman@felsi.org
- Leon County, HoganM@leoncountyfl.gov

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.

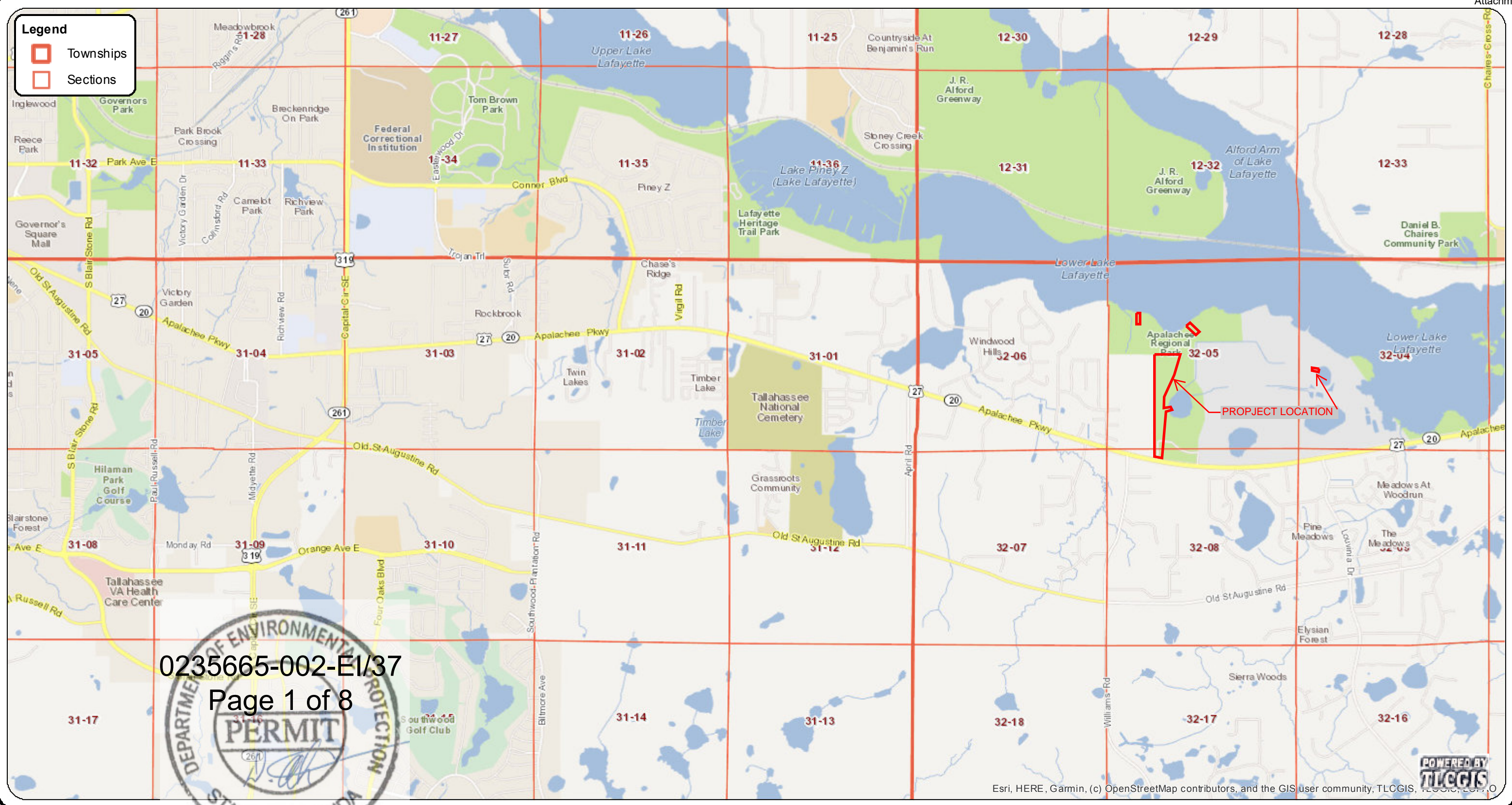


Clerk

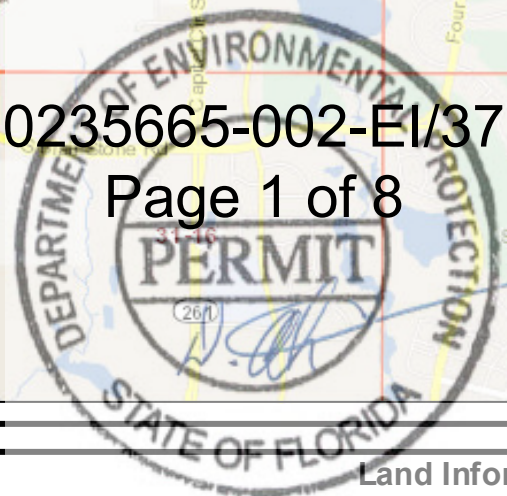
October 24, 2019
Date

Legend

- Townships
- Sections



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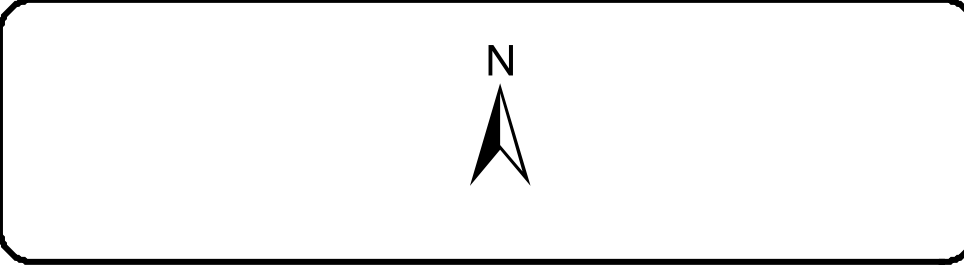
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, TlCGIS, 2019



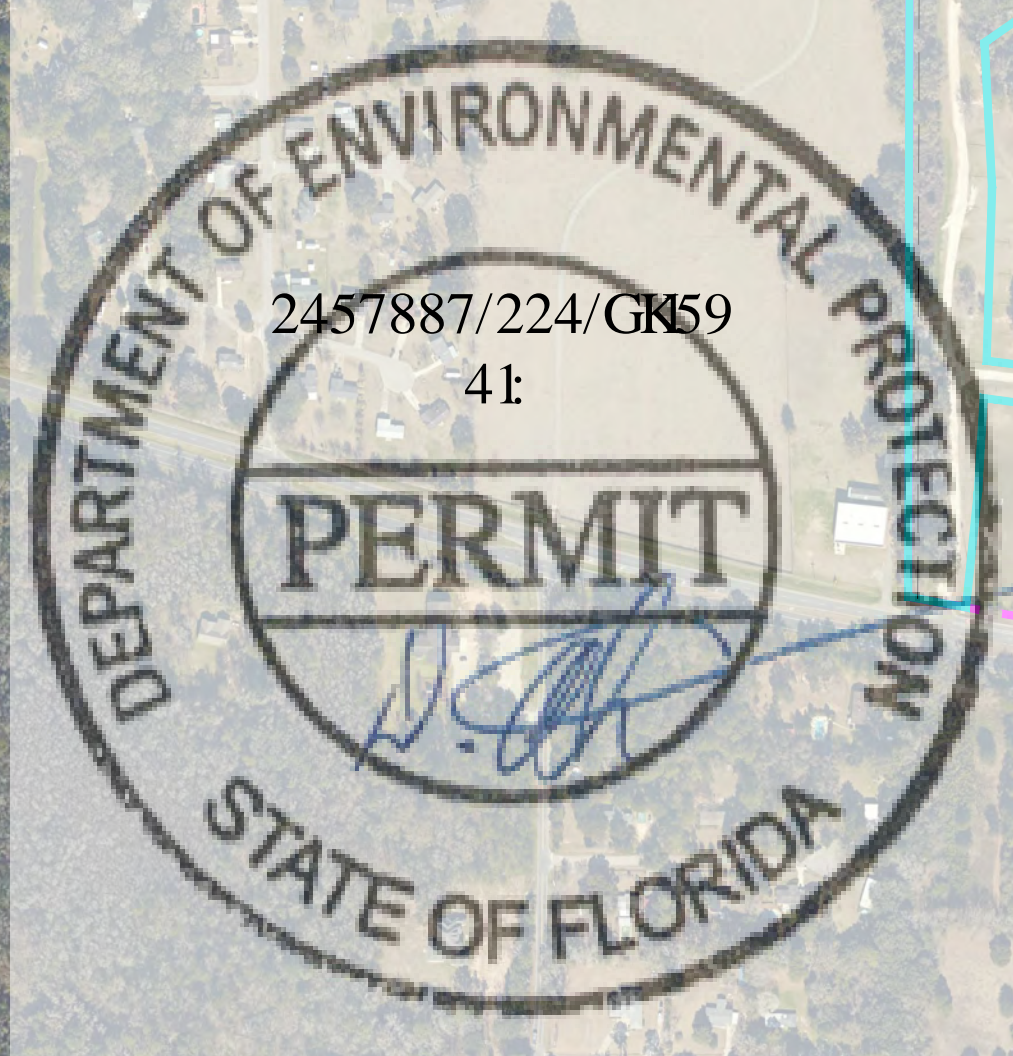
Land Information

DISCLAIMER

This product has been compiled from the most accurate source data from Leon County, the City of Tallahassee, and the Leon County Property Appraiser's Office. However, this product is for reference purposes only and is not to be construed as a legal document or survey instrument. Any reliance on the information contained herein is at the user's own risk. Leon County, the City of Tallahassee and the Leon County Property Appraiser's Office assume no responsibility for any use of the information contained herein or any loss resulting therefrom.



Tallahassee/Leon County GIS	
Scale:	Management Information Services Leon County Courthouse 301 S. Monroe St, P3 Level Tallahassee, FL 32301 850/606-5504 http://www.tlccgis.org
Not To Scale	
Date Drawn:	
July 15, 2019	



LEGEND

--- PROPERTY BOUNDARY
--- LIMITS OF CONSTRUCTION

REVISIONS	
NO.	DESCRIPTION

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD
 TALLAHASSEE, FL 32308
 PHONE (850) 606-1500
 FAX (850) 606-1501

Parking Plan
 APALACHEE REGIONAL PARK
 CROSS COUNTRY VENUE
 INFRASTRUCTURE IMPROVEMENTS

DRMP
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 2882 Remington Green Circle
 Tallahassee, Florida 32308
 Phone: 850.562.9600 WWW.DRMP.COM

PROJECT NO.:	15-0513.004
SCALE:	AS SHOWN
DATE:	5/10/2019
DRAWING:	OVERALL MAP

P:\Projects\15-0513.004_AFP-Cross_Country_Venue_Infrastructure\General-Civil\02 - PROJECT_LAYOUT.dwg Plotted: May, 20, 2019 - 11:42am by bliennon

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TALLAHASSEE, FL 32308
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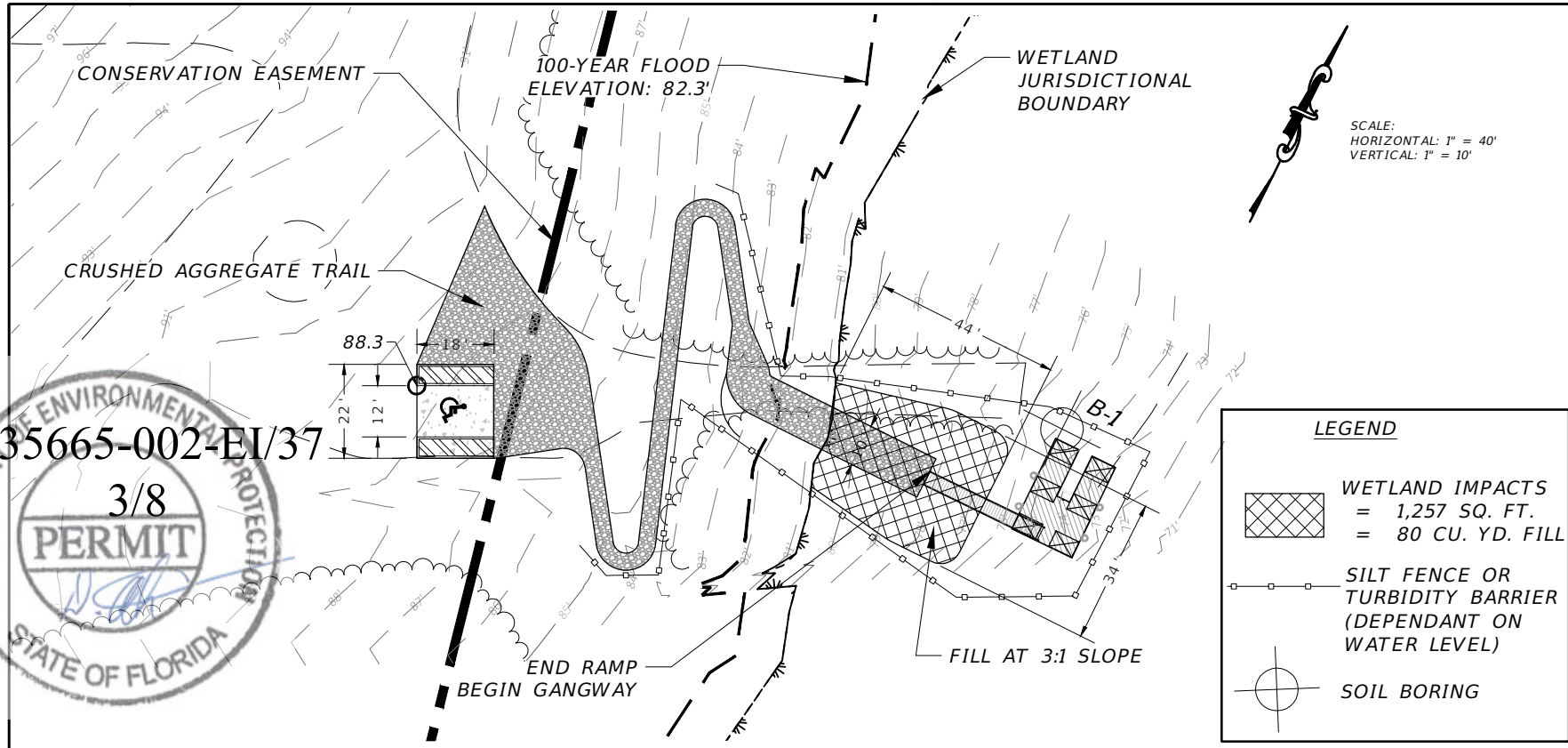


APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE
IMPROVEMENTS

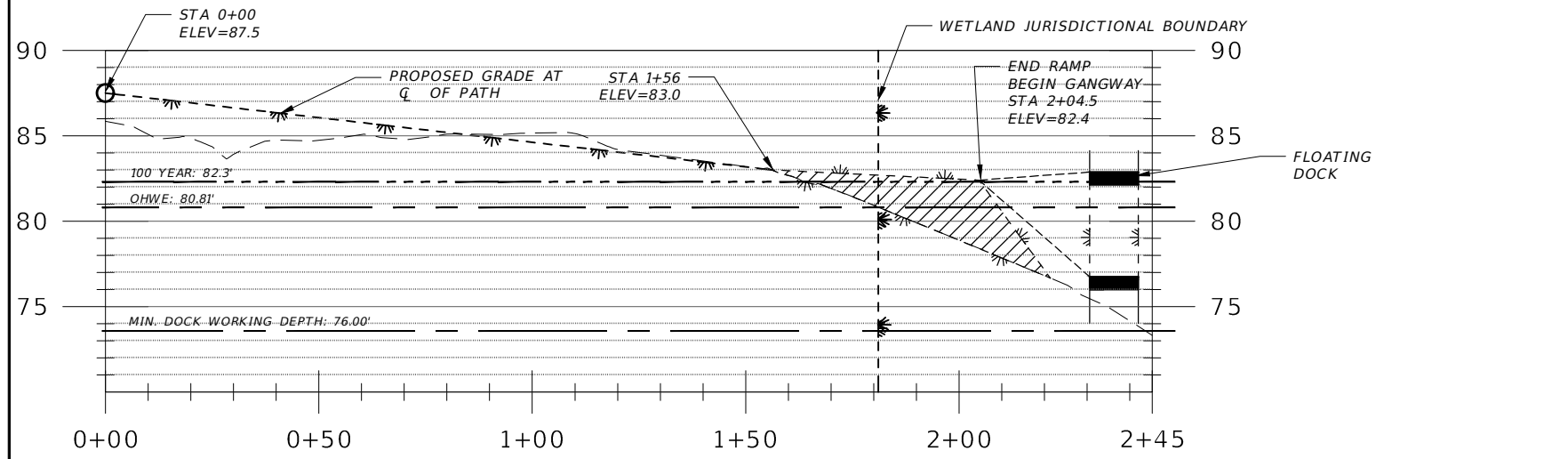
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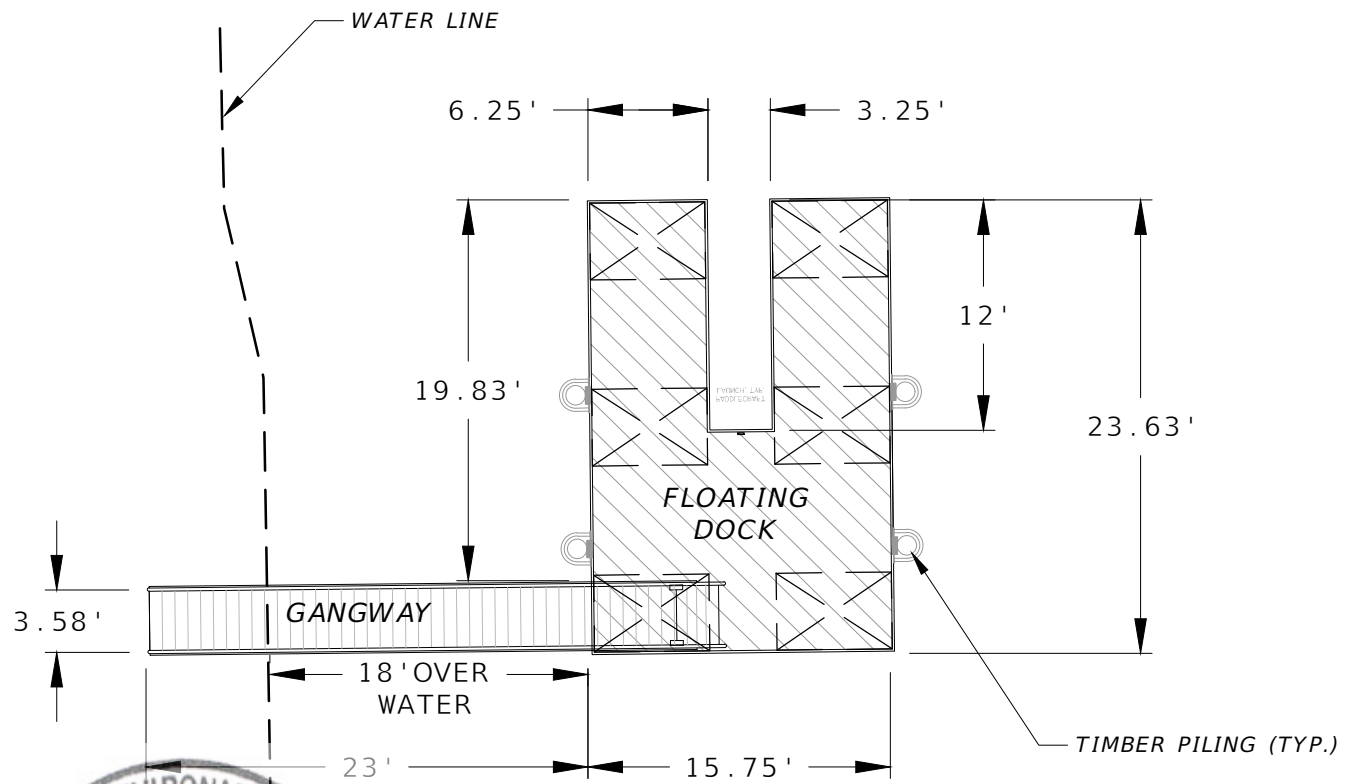
BENJAMIN LENNON, P.E.
Florida Engineer #78674
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 5/6/2019
DRAWING: BOATLAUNCH(1)



0235665-002-EI/37



BOAT LAUNCH PROFILE



0235665-002-EI/37



FLOATING BOAT LAUNCH DOCK DETAIL
PLAN VIEW
 (OVERLOOK 1)
 NOT TO SCALE

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 OF PUBLIC WORKS
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APALACHEE REGIONAL PARK
 CROSS COUNTRY VENUE
 INFRASTRUCTURE
 IMPROVEMENTS

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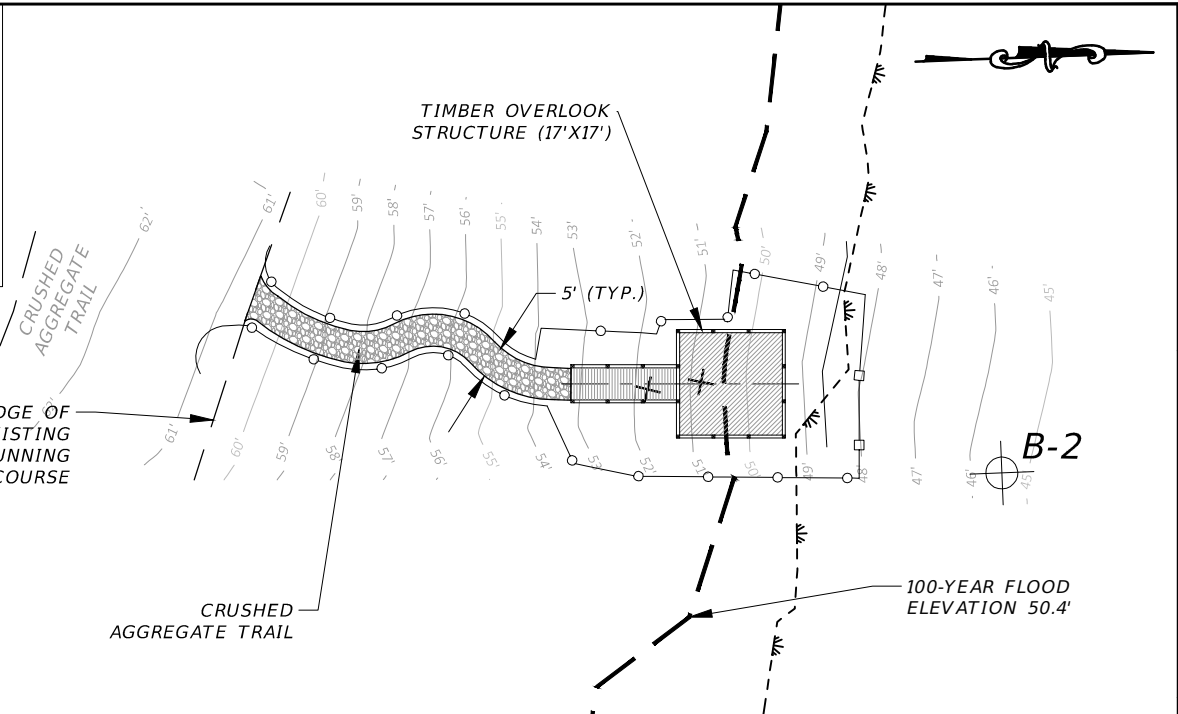
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BENJAMIN LENNON, P.E.
 Florida Engineer #78674
 PROJECT NO.:
 15-0513.004
 SCALE:
 AS SHOWN
 DATE:
 5/6/2019
 DRAWING:
 BOATLAUNCH(2)

LEGEND

- JURISDICTIONAL WETLAND BOUNDARY
- TREE PROTECTION FENCING
- STAKED OR FLOATING TURBIDITY BARRIER (DEPENDANT ON LAKE LEVEL)
- SOIL BORING

B-2



0235665-002-EI/37

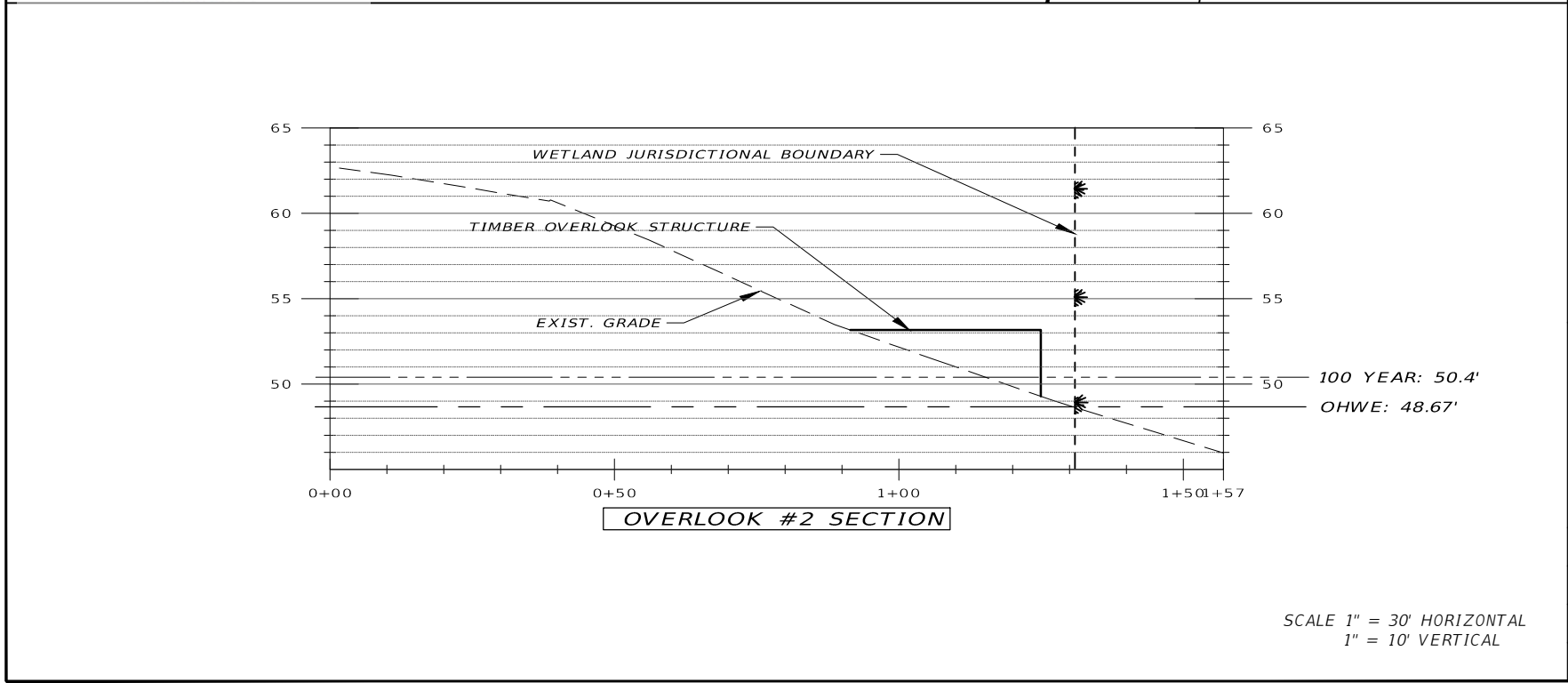
LEON COUNTY DEPARTMENT OF PUBLIC WORKS

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**SCENIC OVERLOOK #2
PLAN AND PROFILE**

APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE
IMPROVEMENTS

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Phone: 850.562.8600 WWW.DRMP.COM

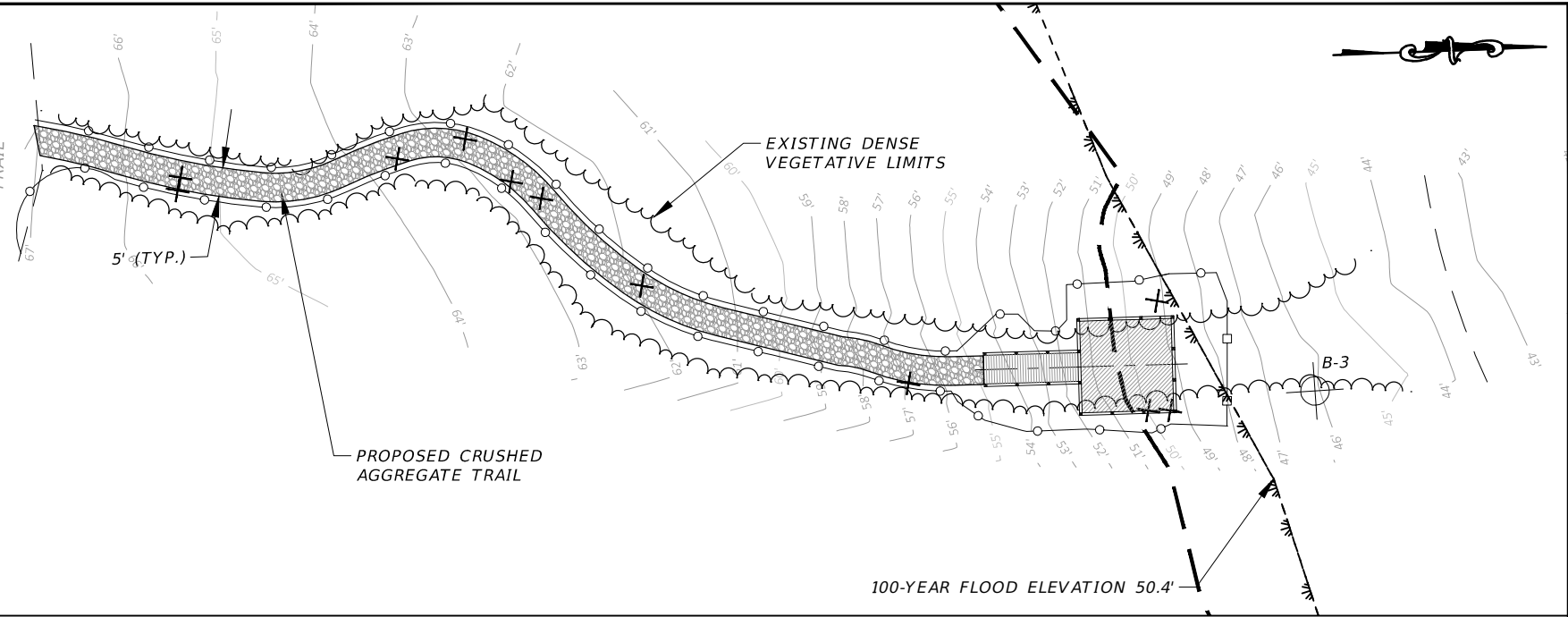
BENJAMIN LENNON, P.E.
Florida Engineer #78674

PROJECT NO.:
15-0513.004

SCALE:
AS SHOWN

DATE:
5/6/2019

DRAWING:
OVERLOOK 2



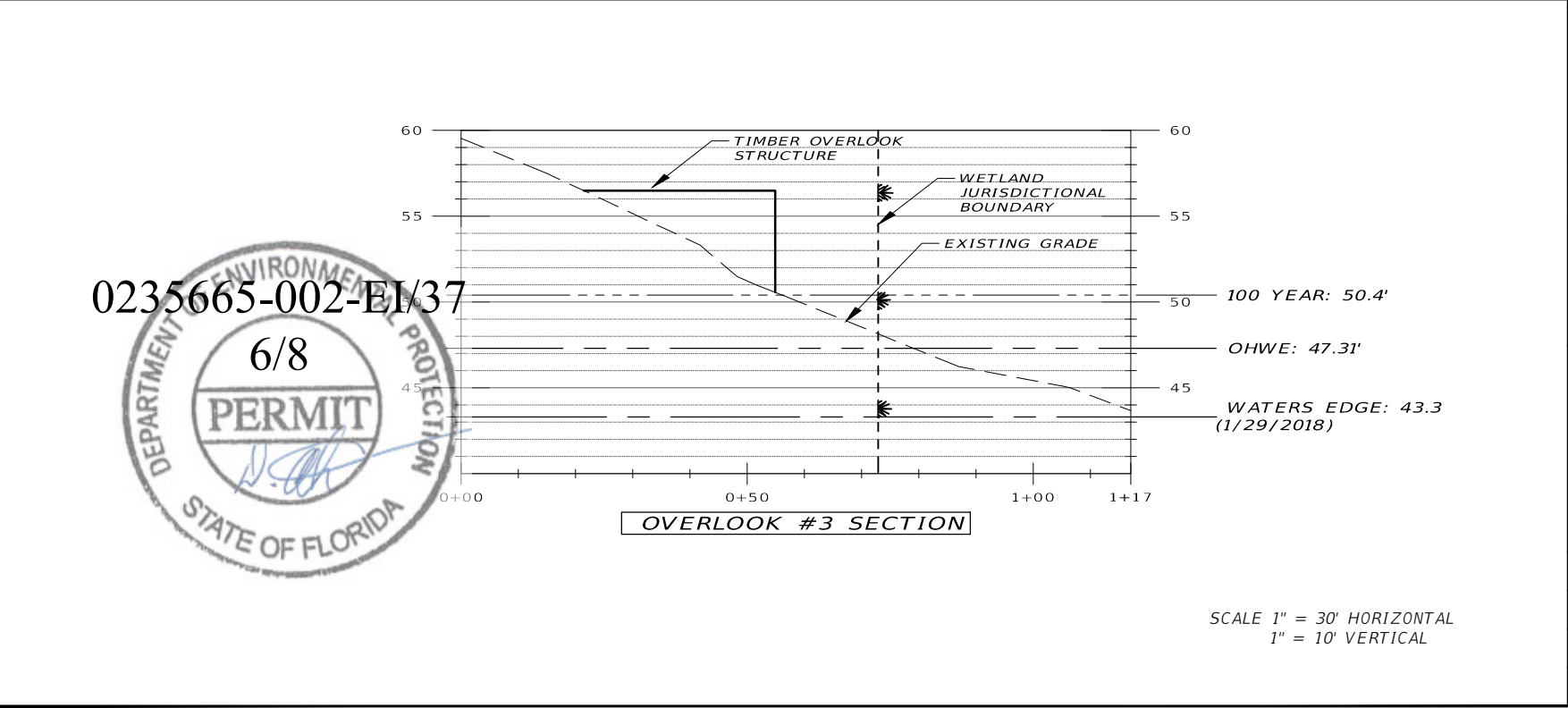
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2280 MICCOSUKEE ROAD
TALLAHASSEE, FL 32308
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FAX (850) 606-1501

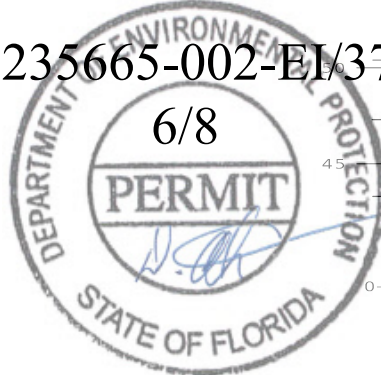


SCENIC OVERLOOK #3
PLAN AND PROFILE
APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE
IMPROVEMENTS

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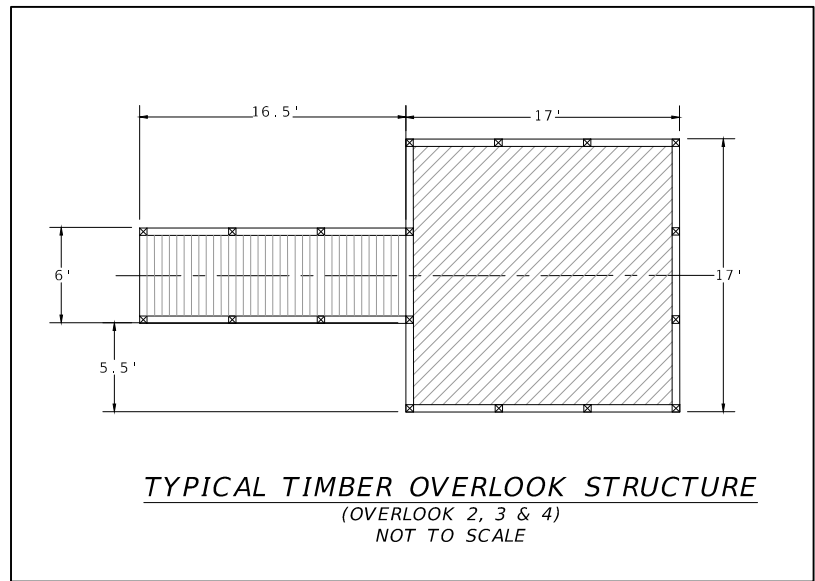
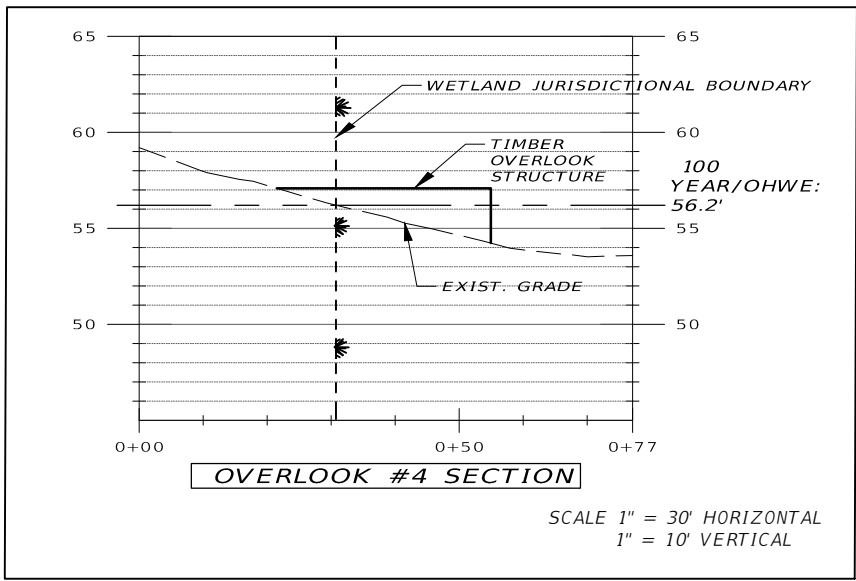
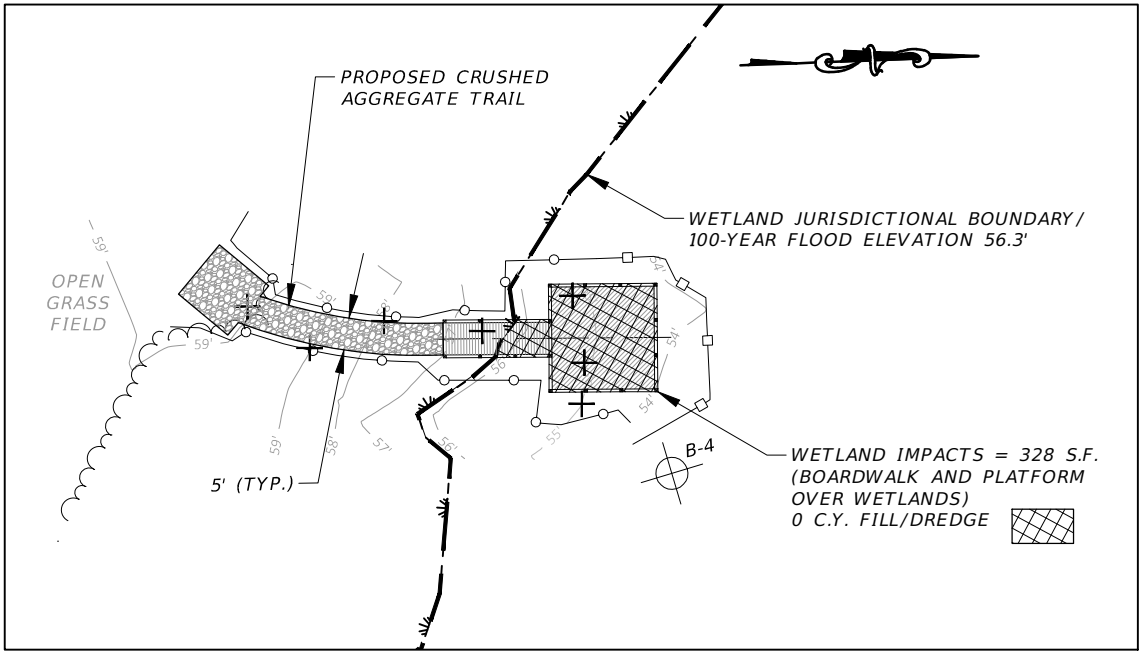
BENJAMIN LENNON, P.E.
Florida Engineer #78674

PROJECT NO.:
15-0513.004

SCALE:
AS SHOWN

DATE:
5/6/2019

DRAWING:
OVERLOOK 3



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SCENIC OVERLOOK 4
PLAN AND PROFILE
APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE
IMPROVEMENTS

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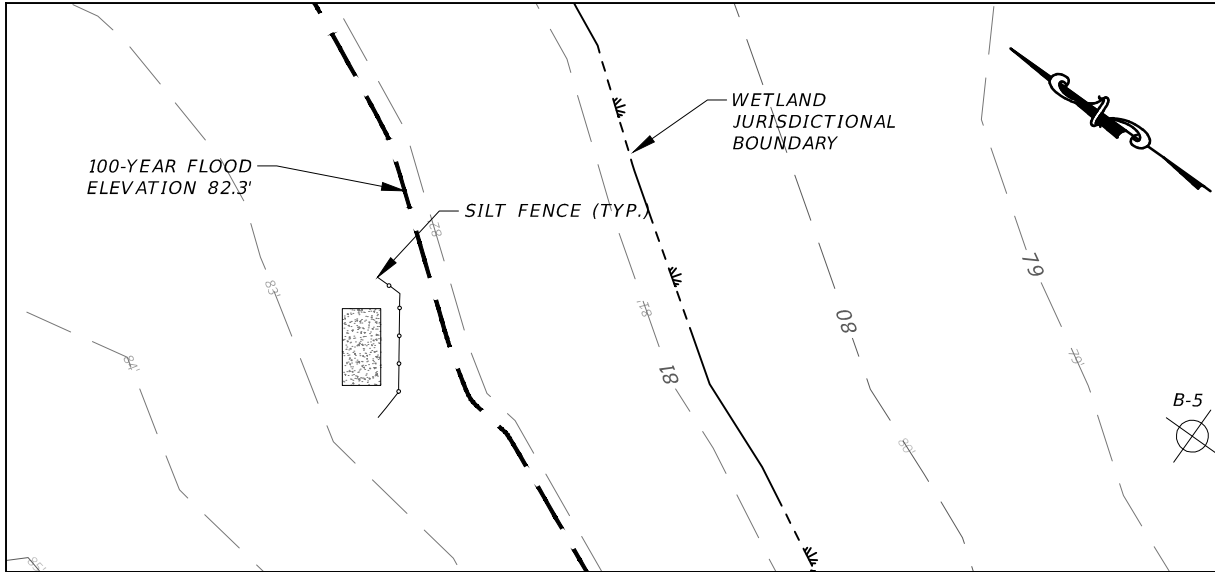
BENJAMIN LENNON, P.E.
Florida Engineer #78674

PROJECT NO.: 15-0513.004

SCALE: AS SHOWN

DATE: 5/6/2019

DRAWING: OVERLOOK 4



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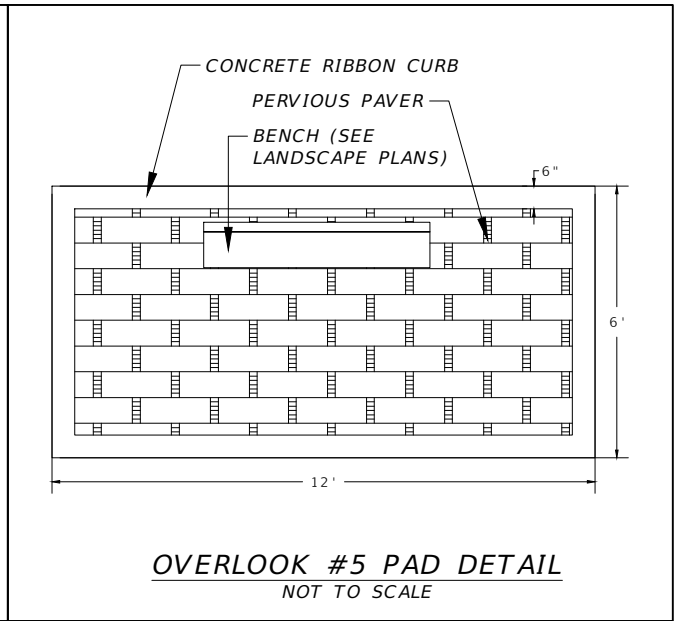
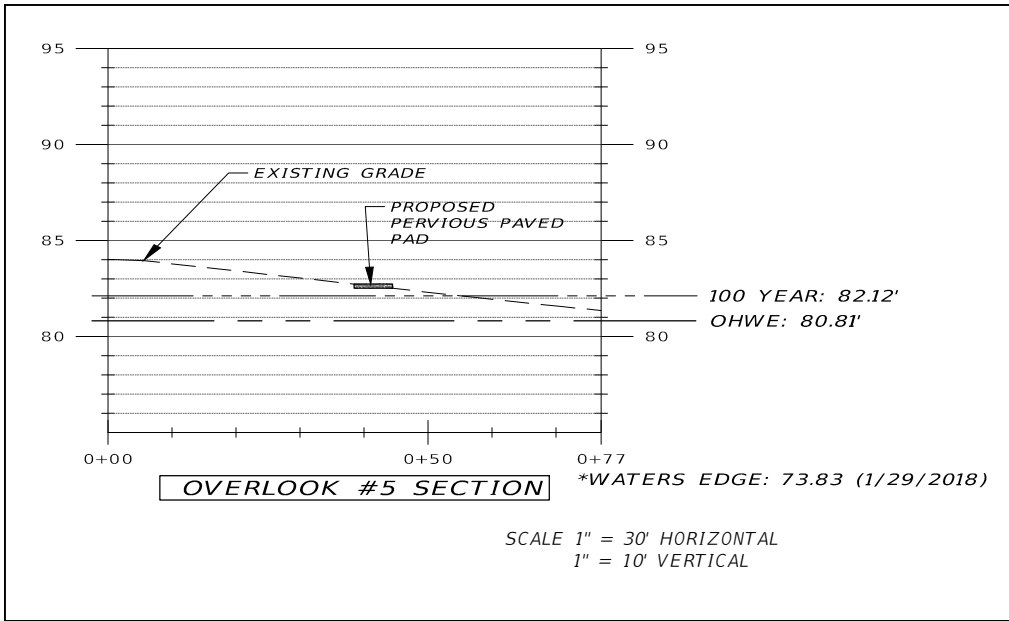
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SCENIC OVERLOOK 5
PLAN AND PROFILE
APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE
IMPROVEMENTS

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2852 Remington Green Circle
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BENJAMIN LENNON, P.E.
Florida Engineer #78674

PROJECT NO.:
15-0513.004

SCALE:
AS SHOWN

DATE:
5/6/2019

DRAWING:
OVERLOOK 5

APALACHEE REGIONAL PARK

Cross Country Venue Infrastructure Improvements

LEON COUNTY, FLORIDA

ENVIRONMENTAL MANAGEMENT PERMIT

PROJECT I.D. # LEM1800017



COMMISSIONERS:

BILL PROCTOR
CHAIRMAN

WILLIAM C. PROCTOR, JR.
DISTRICT 1

JIMBO JACKSON, VICE CHAIRMAN
DISTRICT 2

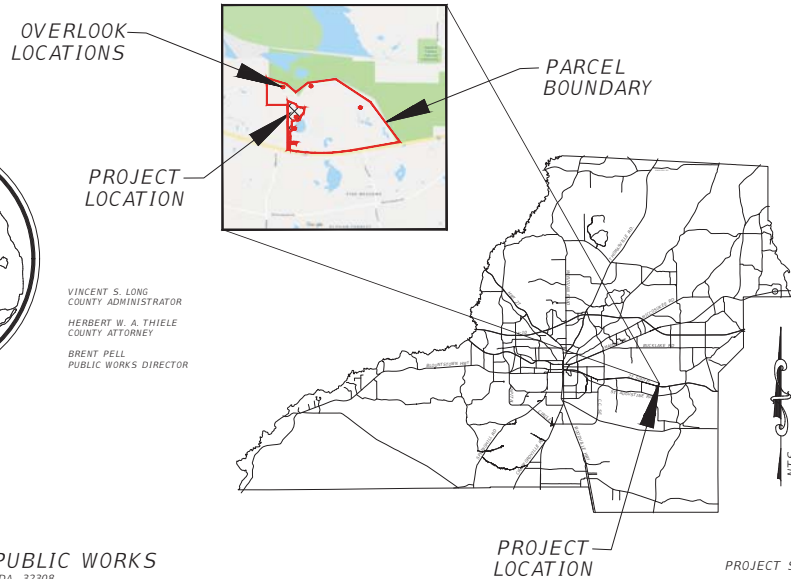
RICK MINOR
DISTRICT 3

BRYAN DESLOGE
DISTRICT 4

KRISTIN DOZIER
DISTRICT 5

MARY-ANN LINDLEY
AT-LARGE

NICK MADDOX
AT-LARGE



VINCENT S. LONG
COUNTY ADMINISTRATOR

HERBERT W. A. THIELE
COUNTY ATTORNEY

BRENT PELL
PUBLIC WORKS DIRECTOR

DEVELOPMENT INFORMATION

OWNER:

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
PHONE (850) 606-1500 * FAX (850) 606-1501

LEON COUNTY PARKS PROJECT MANAGER: LEIGH DAVIS,
LEON COUNTY PUBLIC WORKS PROJECT MANAGER: FELTON ARD, P.E.

Civil Engineer:

DRMP, INC.
2882 Remington Green Circle
Tallahassee, Florida 32308
PHONE: (850) 562-9600
FAX: (850) 575-5544
e-mail: BLENNON@DRMP.COM
FL CA 2648

Surveyor:

DRMP, INC.
1096 Highway 90
CHIPLEY, FL 32428
PHONE: (850) 638-1086

PROJECT SUMMARY:

THIS PROJECT IS FOR THE CONSTRUCTION OF IMPROVEMENTS AT THE APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INCLUDING ASSOCIATED AMENITIES AND INFRASTRUCTURE IMPROVEMENTS.

PARCEL ID#: 3204208510000
TOTAL PARCEL ACREAGE: 596.68
PROJECT AREA: 6.27 ACRES
WETLANDS, FLOOD PLAINS AND PROTECTED TREES EXIST ON THE SITE.

SEPTEMBER 23, 2019

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	PROJECT LAYOUT
4	EXISTING CONDITIONS
4-A	EXISTING CONDITIONS
5	EXISTING CONDITIONS
6	DEMOLITION AND EROSION CONTROL PLAN PHASE 1
7	EROSION CONTROL PLAN PHASE 2
8	SITE PLAN
9	GRADING AND DRAINAGE PLAN
10	UTILITY PLAN
10-A	UTILITY PLAN
11	UTILITY PLAN AND PROFILE
12	UTILITY PLAN AND PROFILE
13	CONSTRUCTION DETAILS
14	SCENIC OVERLOOK NO. 2 THROUGH 5 PLAN AND PROFILE
15	EROSION CONTROL DETAILS
16	DRAINAGE DETAILS
17	UTILITY DETAILS
18	UTILITY DETAILS
18-A	UTILITY DETAILS
18-B	UTILITY DETAILS
19	POND DETAILS
20	STAGE DETAIL
HS01	HARDSCAPE SITE PLAN
HS02	HARDSCAPE KEY
HS03	HARDSCAPE DETAILS
LS01	PLANTING PLAN BUFFER
LS02	PLANTING PLAN
LS03	PLANTING NOTES AND SCHEDULE
LS04	PLANTING DETAILS



Certificate of Authorization 2648
DRMP JOB NUMBER 15-0513.004

ISSUED:
9/23/2019

THIS SEAL HAS BEEN JOINTLY ISSUED AND SCALED BY:

Benjamin R Lennon
2019.09.23
21:20:49-0400

IN THE ONE ADJUST TO THE SEAL:
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND RECALLED AND THE SIGNATURE MUST BE RECALLED ON ANY ELECTRONIC COPIES.

REG. NO. 2019
2019 Registration Expires January 31, 2024
Professional Seal No. 2019-09-23
CHARTERED MEMBER OF THE PROFESSION OF ENGINEERS AND SURVEYORS OF THE STATE OF FLORIDA
LICENSE NO. 78674

THE ABOVE BARRISTER PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61E03-22.004, F.A.C.
SHEETS 1 THROUGH 21.

GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH LEON COUNTY STANDARD SPECIFICATIONS AND PER ALL STATE AND FEDERAL ADA REGULATIONS.
- IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS OR SPECIFICATIONS, THEY SHALL IMMEDIATELY NOTIFY THE OWNER AND DESIGN ENGINEER OF RECORD.
- IF CONTRACTOR OR THEIR SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR, OWNER MAY, BUT IS NOT REQUIRED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH REQUIREMENTS OF THESE GENERAL NOTES WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE, OR WITHIN THE TIME OF ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.
- THE PROJECT DESIGN HAS BEEN BASED UPON FIELD SURVEY AND SITE VISITS CONDUCTED BY DRMP.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, LIMITS OF CONSTRUCTION, WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY EFFECT THE SUCCESSFUL COMPLETION OF THE PROJECT. PRIOR TO THE COMMENCEMENT OF WORK, IF CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS OR SPECIFICATIONS, HE SHALL IMMEDIATELY NOTIFY OWNER OR OWNERS AGENT.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, GIVE ALL NOTICES REQUIRED BY, AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, AND PERMIT CONDITIONS BEARING ON THE EXECUTION OF PROJECT, AS DRAWN AND SPECIFIED. IF CONTRACTOR OBSERVES THAT THE DRAWINGS OR SPECIFICATION ARE IN VARIANCE WITH ANY APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, HE SHALL TAKE ANY ACTIONS NECESSARY TO MITIGATE ANY POTENTIAL DAMAGE, AND PROMPTLY NOTIFY DESIGN ENGINEER IN WRITING OF SUCH VARIANCE. ANY NECESSARY CHANGES TO THE DRAWING AND SPECIFICATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE TO OWNER AND DESIGN ENGINEER FOR THE ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER THIS CONTRACT BETWEEN OWNER AND CONTRACTOR, FOR THIS PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH ALL GOVERNMENTAL AGENCIES, DEPARTMENT OR BODIES, PUBLIC AND PRIVATE UTILITIES, CARRIERS OR SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ANY ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE OR TELEGRAPH FACILITIES, SUCH AS PAVEMENT, TRACKS, PIPING, WIRES, CABLES, CONDUITS, PILES, GUYS OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED TO SUCH SERVICES, THAT ARE ENCOUNTERED DURING THE PROJECT, IN ORDER THAT SUCH ITEMS MAY BE PROPERLY PROTECTED, SUPPORTED OR RELOCATED AS NEEDED.
- UNLESS OTHERWISE SPECIFIED IN THESE GENERAL CONDITIONS, SPECIFICATIONS OR IN THE AGREEMENT BETWEEN OWNER AND CONTRACTOR, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, SPECIFICATION AND APPLICABLE PERMITS, ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, PERMIT CONDITIONS AND BUILDING AND SAFETY CODES BEARING ON THE EXECUTION OF THE PROJECT.
- PRIOR TO PERFORMING ANY WORK WITH ANY PUBLIC OR UTILITY RIGHT-OF-WAY OR EASEMENT, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMITS FROM THE APPLICABLE JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY OR EASEMENT. ADDITIONALLY, CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL AT 811 AT LEAST 48 HOURS OR 2 BUSINESS DAYS WHICHEVER IS GREATER PRIOR TO DIGGING OR OTHERWISE DISTURBING UTILITIES.
- CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS AND PROPERTY CORNERS. IN THE EVENT ANY REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS OR PROPERTY CORNERS ARE DISTURBED, CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE SUCH.
- THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS AND AGENCIES SHALL HAVE ACCESS TO THE PROJECT AT ALL TIMES. CONTRACTOR SHALL PROVIDE REASONABLE AND PROPER FACILITIES FOR SUCH ACCESS AND INSPECTION OF THE WORK.
- CONTRACTOR SHALL COMPLY IN EVERY ASPECT WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AS AMENDED AND ALL RULES, STATUTES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT. THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY OTHER APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS PERTAINING TO JOB SAFETY AND HEALTH, INCLUDING, BUT NOT LIMITED TO CFR 1910 AND 1926.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE BUILDING AND SAFETY CODES, FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO, LAWFUL ORDERS OF ANY QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THE PROTECTION AGAINST INJURY, DAMAGE, OR LOSS TO PERSONNEL, EQUIPMENT OR MATERIALS, OR DESIGNED TO PROTECT THE ENVIRONMENT. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE AND REQUIRED SAFEGUARDS FOR THE SAFETY AND PROTECTION OF ALL PERSONNEL, EQUIPMENT OR MATERIALS, INCLUDING BUT NOT LIMITED TO, POSTING OF DANGER SIGNS AND OTHER WARNING AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND SAFETY REGULATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REASONABLE AND PRUDENT PRECAUTIONS FOR THE SAFE AND SECURE PROTECTION OF ALL INCOMPLETE WORK, MATERIALS AND EQUIPMENT STORED ONSITE AND OFFSITE, AND ANY UNAUTHORIZED ACCESS TO SUCH.
- CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, AND GUIDELINES AND RECOMMENDATIONS PERTAINING TO THE SAFE UTILIZATION OF ALL EQUIPMENT AND MATERIALS, AS PUBLISHED BY MANUFACTURER OR SUPPLIER.
- PRIOR TO INITIATING ANY EXCAVATION (INCLUDING, BUT NOT LIMITED TO, TUNNELS, DITCHES, SWALES, STORMWATER PONDS, CANALS, OR ARTIFICIAL LAKES), CONTRACTOR SHALL REVIEW AND MAKE ARRANGEMENTS TO COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO CFR 1926 SUBPART P, AND OSHA DIRECTIVES CPL 2.60 AND 2.87 PERTAINING TO SAFE TRENCHING AND EXCAVATION. CONTRACTOR SHALL INSTALL ALL NECESSARY FENCES AND BARRIERS, AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO ENSURE THAT ACCESS TO EXCAVATIONS BY UNAUTHORIZED INDIVIDUALS IS PREVENTED.
- CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE AND REQUIRED PROTECTION TO PREVENT INJURY, DAMAGE OR LOSS TO:
 - ALL INDIVIDUALS INCLUDING CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, INSPECTORS AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER A CONTRACT WITH THE CONTRACTOR.
 - ALL THE WORK, MATERIALS AND EQUIPMENT TO BE INCORPORATED INTO THE FINAL PRODUCT, WHETHER IN STORAGE ONSITE OR OFFSITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF THE SUBCONTRACTORS; AND
 - OTHER PERSONS AT THE SITE OR ADJACENT TO THE SITE, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL OR DEMOLITION DURING THE COURSE OF THE PROJECT

GENERAL NOTES (continued)

- DAMAGE OR LOSS TO ANY PROPERTY, UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER, CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, CONTRACTOR'S EMPLOYEES, ANY SUBCONTRACTORS OR THEIR AGENTS, OR ENCOUNTERED MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND DESIGN ENGINEER OF RECORD. IF CONTRACTOR OBSERVES THAT THE DRAWINGS OR SPECIFICATION ARE IN VARIANCE WITH ANY APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, HE SHALL TAKE ANY ACTIONS NECESSARY TO MITIGATE ANY POTENTIAL DAMAGE, AND PROMPTLY NOTIFY DESIGN ENGINEER IN WRITING OF SUCH VARIANCE. ANY NECESSARY CHANGES TO THE DRAWING AND SPECIFICATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
- ALL INJURY, DAMAGE OR LOSSES TO ANY PERSONNEL, EQUIPMENT, MATERIALS OR PROPERTY, AS NOTED IN PARAGRAPH 18, CAUSED IN WHOLE OR IN PART, THROUGH FAULT OR NEGLIGENCE BY CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR BY ANYONE FOR THOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR INJURY, DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS, ERRORS OR OMISSIONS OF OWNER, DESIGN ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR THOSE ACTS ANY OF THEM MAY BE LIABLE AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
- UNTIL THE FINAL ACCEPTANCE OF THE PROJECT BY OWNER, CONTRACTOR SHALL HAVE THE COMPLETE CHARGE AND CARE OF, AND SHALL BEAR ALL RISKS AND EXPENSES FOR ANY INJURY, DAMAGE OR LOSS, OR TO ANY PORTION OF THE WORK, ALL MATERIALS STORED ONSITE OR OFFSITE BY THE ACTION OF THE ELEMENTS, OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. CONTRACTOR SHALL BEAR ALL EXPENSES FOR ANY REPAIRS, REBUILDING OR RESTORATION, AND MAKE GOOD ALL INJURIES, DAMAGES OR LOSSES TO ANY PORTION OF THE WORK BEFORE FINAL ACCEPTANCE OF THE PROJECT BY OWNER.
- CONTRACTOR SHALL NOT LOAD, CAUSE OR PERMIT ANY PART OF THE WORK TO BE LOADED SO AS TO ENDANGER SAFETY. NO LOAD SHALL BE PLACED ON ANY ROOF WITHOUT THE APPROVAL OF OWNER AND DESIGN ENGINEER.
- THOSE PARTS OF THE WORK IN PLACE, WHICH ARE SUBJECT TO DAMAGE, BECAUSE OF ACTIVITIES OR OPERATIONS BEING CARRIED OUT ADJACENT TO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY CONTRACTOR AT HIS EXPENSE.
- CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COST, ATTORNEYS FEES, EXPENSES, CAUSE OF ACTION, CLAIMS OR OTHER JUDGMENTS RESULTING FROM VIOLATIONS UNDER OSHA OR ANY RULES, STATUTES OR REGULATIONS PROMULGATED THERE UNDER, OR ANY FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK OR WORK TO BE PERFORMED ON THIS PROJECT. CONTRACTOR SHALL INDEMNIFY OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES PAID OR INCURRED BY, OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENT AND EMPLOYEES. CONTRACTOR FURTHER AGREES IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL, STATE OR LOCAL SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK, OR WORK TO BE PERFORMED ON THIS PROJECT, OWNER MAY IMMEDIATELY TAKE ALL ACTIONS DEEMED NECESSARY TO REMEDY THE CLAIMED VIOLATIONS. ANY AND ALL COST OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE SOLELY BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COST OR EXPENSES.
- ALL WORK PERFORMED UNDER THIS CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE PERFORMANCE OF THE WORK SHALL CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES, AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL APPLY.
- "HAZARDOUS MATERIALS" MEANS ANY SUBSTANCE WHICH:
 - THE PRESENCE OF REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS;
 - IS OR BECOMES DEFINED AS A "HAZARDOUS SUBSTANCE," "HAZARDOUS POLLUTANT" OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS; OR
 - IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD OR INSTRUMENTALITY OF THE UNITED STATES, (THE STATES) IN WHICH THE PROJECT IS LOCATED OR ANY POLITICAL SUBDIVISION THEREOF; OR
 - THE PRESENCE OF OR THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES; OR
 - THE PRESENCE OF OR THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSSES OR THREATENS TO POSE A HAZARD TO THE ENVIRONMENT; OR
 - CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (G) CONTAIN POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, MERCURY, LEAD OR OTHER POLYMERIZABLE TOXIC INSULATION.
- CONTRACTOR AND ITS SUBCONTRACTORS SHALL PROPERLY USE, HANDLE, TRANSPORT AND DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO, LAWFUL ORDERS OF ANY QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THE PROTECTION AGAINST INJURY, DAMAGE, OR LOSS TO PERSONNEL, EQUIPMENT OR MATERIALS, OR DESIGNED TO PROTECT THE ENVIRONMENT.
- CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE IMPROPER DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIALS OR SUBSTANCES CREATED BY ITS WORK OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL TAKE ALL SUCH ACTIONS AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECTS OF SUCH SPILLS ON ANY PERSON OR PROPERTY, NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND NOTIFY OWNER IN WRITING.
- CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS PROJECT, REMOVE ALL SUPPLIES, MATERIALS AND WASTE CONTAINING HAZARDOUS MATERIALS FROM THE JOB SITE. CONTRACTOR SHALL BEAR ALL FINANCIAL RESPONSIBILITY, BETWEEN THE PARTIES OF THE CONTRACT, FOR COMPLIANCE WITH THE PROVISIONS OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR.
- CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD HARMLESS OWNER FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COST OF INVESTIGATION, SOIL TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEANUP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THESE GENERAL NOTES.
- SHOULD THE CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIALS ON OR ABOUT THE JOB SITE IN VIOLATION OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR, CONTRACTOR OR ITS SUBCONTRACTOR OR ANY REPORTABLE OCCURRENCE, CONTRACTORS SHALL IMMEDIATELY TAKE SUCH ACTIONS AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECTS OF SUCH SPILLS ON PERSONS, PROPERTY OR THE ENVIRONMENT, NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND INFORM THE OWNER IN WRITING.

GENERAL NOTES (continued)

- IN THE EVENT CONTRACTOR OR ANY OF ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER ANY MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER IN WRITING.
- A SUFFICIENT LABOR FORCE SHALL BE MAINTAINED TO UNDERTAKE THE SCOPE OF WORK THAT IS TO BE PERFORMED, PRIOR TO THE START OF EACH DAYS WORK, THE ON-SITE INSPECTOR SHALL APPROVE THE PERSONNEL PROVIDED BY THE CONTRACTOR TO INSURE THAT AN ADEQUATE NUMBER OF WORKERS ARE AVAILABLE AS WELL AS CAPABLE OF PROVIDING THE SKILLS NECESSARY TO PERFORM THE NECESSARY TASK, IF AT ANY TIME DURING THE WORKING DAY, THE CONTRACTOR CORRECTS THE SITUATION. THE CONTRACTOR'S SUPERINTENDENT SHALL BE FREE AT ALL TIMES TO SUPERVISE AND COORDINATE THE WORK IN PROGRESS WITH THE ON-SITE INSPECTOR WITHOUT BEING REQUIRED TO PERSONALLY OPERATE THE EQUIPMENT OF THE PROJECT.
- LEON COUNTY SHALL RESERVE THE RIGHT TO SAMPLE ANY OR ALL MATERIALS TO DETERMINE THAT MATERIALS MEET SPECIFICATIONS. FAILURE TO MEET SPECIFICATIONS SHALL BE CAUSE FOR CANCELLATION OF DELIVERY, REJECTION OF MATERIALS PROVIDED FOR PARTIAL OR FULL PAYMENT DEDUCTION AS DETERMINED BY THE COUNTY REPRESENTATIVE.
- THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF CONSTRUCTION ACTIVITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES PRIOR TO BEGINNING OF CONSTRUCTION AND COORDINATE SCHEDULES WITH UTILITY OWNERS DURING CONSTRUCTION.

UTILITY CONTACTS:
 ELECTRIC: TALQUIN ELECTRIC - (850) 627-7651
 TELEPHONE: CENTURYLINK - DAVID POOLE - (850) 877-6422 (DAVID.C.POOLE@CENTURYLINK.COM)
 WATER: TALQUIN ELECTRIC - (850) 627-7651
 CABLE: COMCAST - "SUNSHINE 1 CALL UTILITY" (800) 432-4770

STORMWATER MANAGEMENT CONTROL OFFICER - ON-SITE CONTRACTORS REPRESENTATIVE AND MS. BETSY THORPE (850) 606-1522
 LEON COUNTY SOLID WASTE MANAGEMENT - SHAWN ABBOTT (850) 606-1820
- TREE PRUNING AND IMPACTS:
 CONTRACTOR SHALL COORDINATE WITH THE CERTIFIED ARBORIST REPRESENTING LEON COUNTY PUBLIC WORKS TO PROVIDE ALL SERVICES RELATED TO TREE PRUNING AND IMPACTS WITHIN THE CRITICAL PROTECTION ZONE OF THE TREE.
 ARBORIST: ARMSTRONG TREE SERVICE - (850) 893-3318
- PRIOR TO CLEARING CONTRACTOR SHALL STAKE THE LIMITS OF CONSTRUCTION, FLAG ALL TREES TO BE REMOVED AND NOTIFY THE PROJECT MANAGER AND COUNTY ENVIRONMENTAL INSPECTOR. ALL REMAINING TREES ARE TO BE PROTECTED AS SHOWN IN THE DETAILS. CONTRACTOR IS REQUIRED, AT ALL TIMES, TO MINIMIZE IMPACTS TO EXISTING TREES AND VEGETATION.
- ALL EXCESS MATERIALS EXCAVATED THAT ARE NOT NEEDED FOR CONSTRUCTION OF THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED AT HIS EXPENSE AT A SAFE UPLAND LOCATION. MATERIALS SHALL BE STOCKPILED SEPARATELY INTO USEABLE (NONORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH A STAGING AREA WITH THE COUNTY ENGINEER'S REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING NECESSARY PERMITS IF REQUIRED. IF THE STAGING AREA IS OUTSIDE THE COUNTY'S RIGHT-OF-WAY OR PROPERTIES, CONTRACTOR IS REQUIRED TO OBTAIN A TEMPORARY STAGING AREA PERMIT FROM LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT DEPARTMENT.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE, AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY, PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELATIONS OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY.
- ALL DITCHES, PONDS, ROADWAYS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED SURFACE WITH NO SHARP BREAKS IN GRADE, OR NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES.
- ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
- EXISTING DAMAGED SIGNS OR POST SHALL BE REPLACED WITH LIKE SIGNS MEETING THE REQUIREMENTS OF THE MUTCD & FDOT.
- CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DISTURBANCE BEYOND THE PERMITTED LIMITS OF CLEARING.
- SHOULD THE CONTRACTOR ENCOUNTER ANY HISTORIC ARTIFACTS THEN CONSTRUCTION ACTIVITY SHALL CEASE IN THE VICINITY OF ANY FOUND ARTIFACTS AND THE APPROPRIATE AUTHORITIES SHALL BE NOTIFIED.
- SHOULD THE CONTRACTOR ENCOUNTER ANY KARST/LIMESTONE DURING EXCAVATION EFFORTS THE DESIGN ENGINEER, LEON COUNTY PROJECT MANAGER AND LEON COUNTY ENVIRONMENTAL INSPECTOR SHALL BE NOTIFIED IMMEDIATELY. A MINIMUM OF 3 FEET OF UNCONSOLIDATED SOIL MUST BE IN PLACE BETWEEN THE BOTTOM OF EXCAVATED AREAS AND LIMESTONE.
- THE STOCKPILING OF MATERIAL MAY REQUIRE AN ADDITIONAL PERMIT BY THE CONTRACTOR.

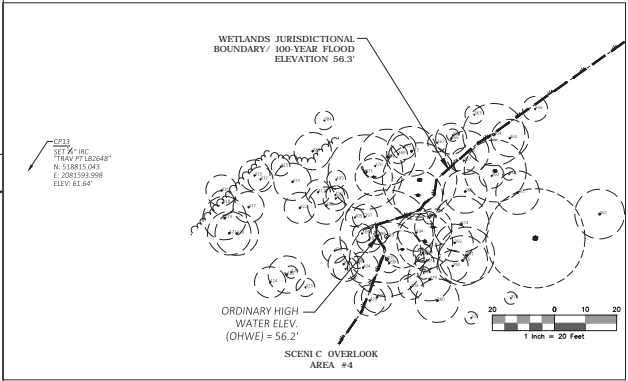
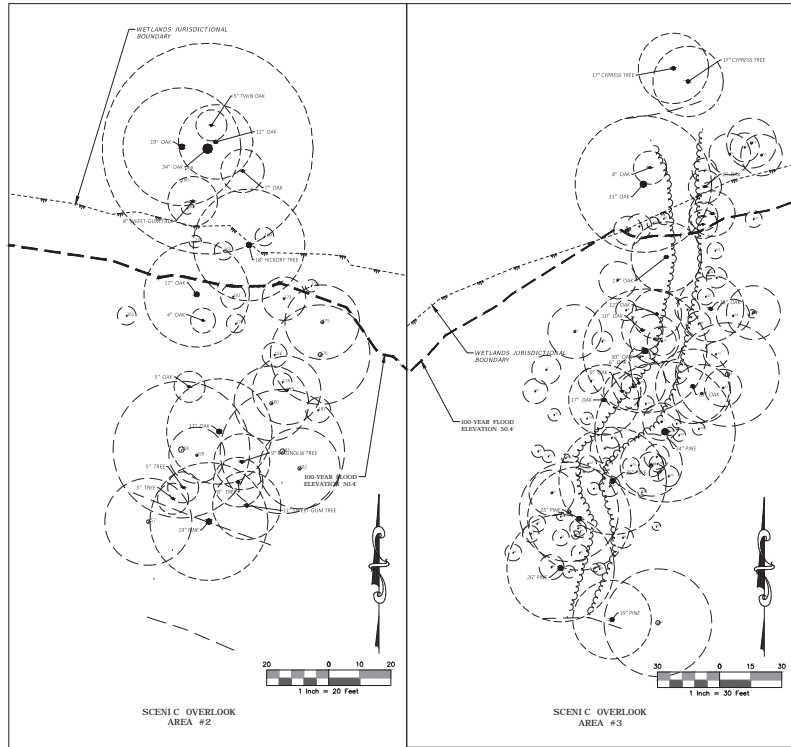
TRAFFIC CONTROL NOTES:

- THIS PROJECT ANTICIPATES THE NEED FOR TRAFFIC CONTROL DEVICES LISTED IN THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY STANDARD INDICES. CONTRACTOR SHALL DEVELOP A TEMPORARY TRAFFIC CONTROL PLAN (TICP) WHICH SHALL BE APPROVED BY DESIGN ENGINEER AND COUNTY ENGINEER PRIOR TO START OF CONSTRUCTION. TICP SHALL BE DEVELOPED BY SOMEONE CERTIFIED/QUALIFIED IN ADVANCED MAINTENANCE OF TRAFFIC. THE CONTRACTOR SHALL INSPECT, MAINTAIN AND MODIFY THROUGHOUT THE PROJECT CONSTRUCTION.
- THE CONTRACTOR'S TICP SHALL ACCOMPLISH ALL OF THE FOLLOWING:
- NO LANE CLOSURES WILL BE ALLOWED.
 - NO DETOURS PERMITTED.
 - NOTIFY TRANSIT AND SCHOOL BOARD OF PROPOSED WORK SCHEDULE.
 - THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, WARNING, DANGER, AND DETOUR SIGNS SUITABLE AND ADEQUATE LIGHTS, PROVIDE FLAGMEN WHERE NECESSARY TO DIRECT VEHICULAR AND PEDESTRIAN TRAFFIC, AND TAKE ALL OTHER PRECAUTIONS TO PROTECT THE WORK AND THE PUBLIC.

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	REVISIONS				
NO.	DATE	DESCRIPTION	BY		
DESIGNED BY	DOWN BY	CHECKED BY	APPROVED BY		
LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MCCOY ROAD TALLAHASSEE, FL 32308 PHONE: (850) 606-1500 FAX: (850) 606-1501					
APALACHEE REGIONAL PARK OF PUBLIC WORKS CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS					
ENGINEER - S. BRETHERTON - PLANNER & SCIENTIST Certificate of Authorization No. 2644 2600 North Florida Avenue, Suite 200 Tallahassee, Florida 32308 Phone: 850-492-8800 WWW.DRMP.COM					
GENERAL NOTES DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE					
BENJAMIN LENNON, P.E. Florida Engineer #78674 PROJECT NO. 15-0513.004 SCALE: AS SHOWN DATE: 09/23/2019 DRAWING: 2					

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SURVEYOR'S NOTES

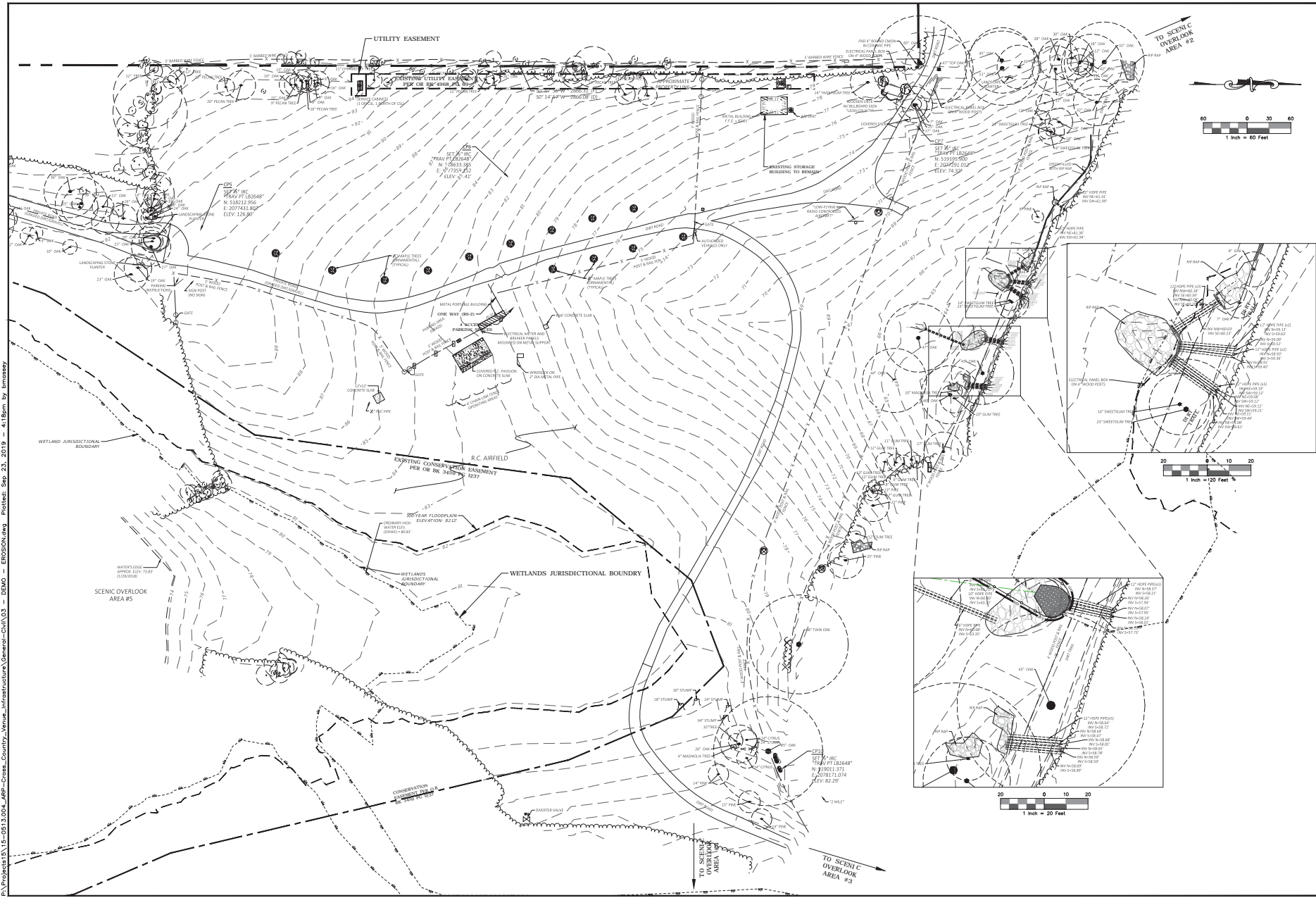
- 1) This Topographic Survey was completed for the purpose of facilitating the design and engineering of improvements to the project site. THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE RELIED UPON AS SUCH. Any property lines shown are for illustration only.
- 2) Coordinates shown are referenced to the North American Datum of 1983/Adjustment of 2011 (NAD83/11), based upon a GPS survey from FPN stations Tallahassee (TALB) and Bradenville (ELBL). Coordinates are projected in the Florida State Plane Coordinate System, North Zone, 0903, and displayed in U.S. Survey Feet.
- 3) Bearings shown are referenced to the grid bearing calculated between East.
- 4) Elevations shown are referenced to the North American Vertical Datum of 1988 (NAVD88), displayed in U.S. Survey Feet, and based on the following published benchmarks:
 - HERITAGE (BE2016) - A brass NGS Horizontal Control disk set in the top of a 1' diameter concrete post, stamped 'HERITAGE 1978', located on the south side of Apalachee Parkway (U.S. 27), 5.14 miles east of the intersection of Apalachee Parkway and U.S. 319. Published Elevation = 121.59'
 - LEON (BE2017) - A brass NGS Triangulation Station disk set in concrete, stamped 'LEON 1978', located on the south side of Apalachee Parkway (U.S. 27), 4.50 miles east of the intersection of Apalachee Parkway and U.S. 319. Published Elevation = 128.78'
 - LED 19 FLNKS (BE2018) - A FLEBP survey disk set in concrete, stamped 'LED 19 CLE 1979', located on the south side of Apalachee Parkway (U.S. 27), 4.21 miles east of the intersection of Apalachee Parkway and U.S. 319. Published Elevation = 94.43'
- 5) Date of last field survey: January 29, 2018.
- 6) No underground installations or improvements, including, but not limited to, buried cables, subsurface utilities, foundations/footers, or burial sites were located, except as shown.

LEGEND & ABBREVIATIONS

- CMON CONCRETE MONUMENT
- E EASTING
- ELEV. ELEVATION
- F.F.F. FINISHED FLOOR ELEVATION
- IRC IRON ROD & CAP
- LS LICENSED SURVEYOR
- N NORTHING
- NLD NAIL & DISK
- PSM PROFESSIONAL SURVEYOR AND MAPPER
- CONCRETE MONUMENT
- DELINEATOR POST
- DRAINAGE MANHOLE
- ELECTRICAL OUTLET
- ELECTRICAL TRANSFORMER
- IRON ROD & CAP
- MONITORING WELL
- NAIL & DISK
- ORNAMENTAL SHRUB
- PLANTED TREE/SAPLING
- POST
- ELECTRICAL SERVICE CABINET
- SINGLE SUPPORT SIGN
- SPRINKLER HEAD
- UTILITY RISER
- WATER VALVE (NON-POTABLE)
- X FENCE
- WATER'S EDGE
- WOODS LINE

LEON COUNTY DEPARTMENT OF PUBLIC WORKS	
2280 MCCOSKIE ROAD TALLAHASSEE, FL 32308 PHONE (904) 691-1500 FAX (904) 691-1501	
	EXISTING CONDITIONS APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS
	ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2848 2800 Apalachee Parkway, Suite 200 Tallahassee, Florida 32308 Phone 904.582.8600 WWW.DRMP.COM
PROJECT NO.: 15-0513.004	SCALE: AS SHOWN
DATE: 09/23/2019	DRAWING: 4-A
DESIGNED BY: MHB DRAWN BY: JMM CHECKED BY: BRL APPROVED BY: BRL	NO. DATE DESCRIPTION _____ _____ _____ _____ _____

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE



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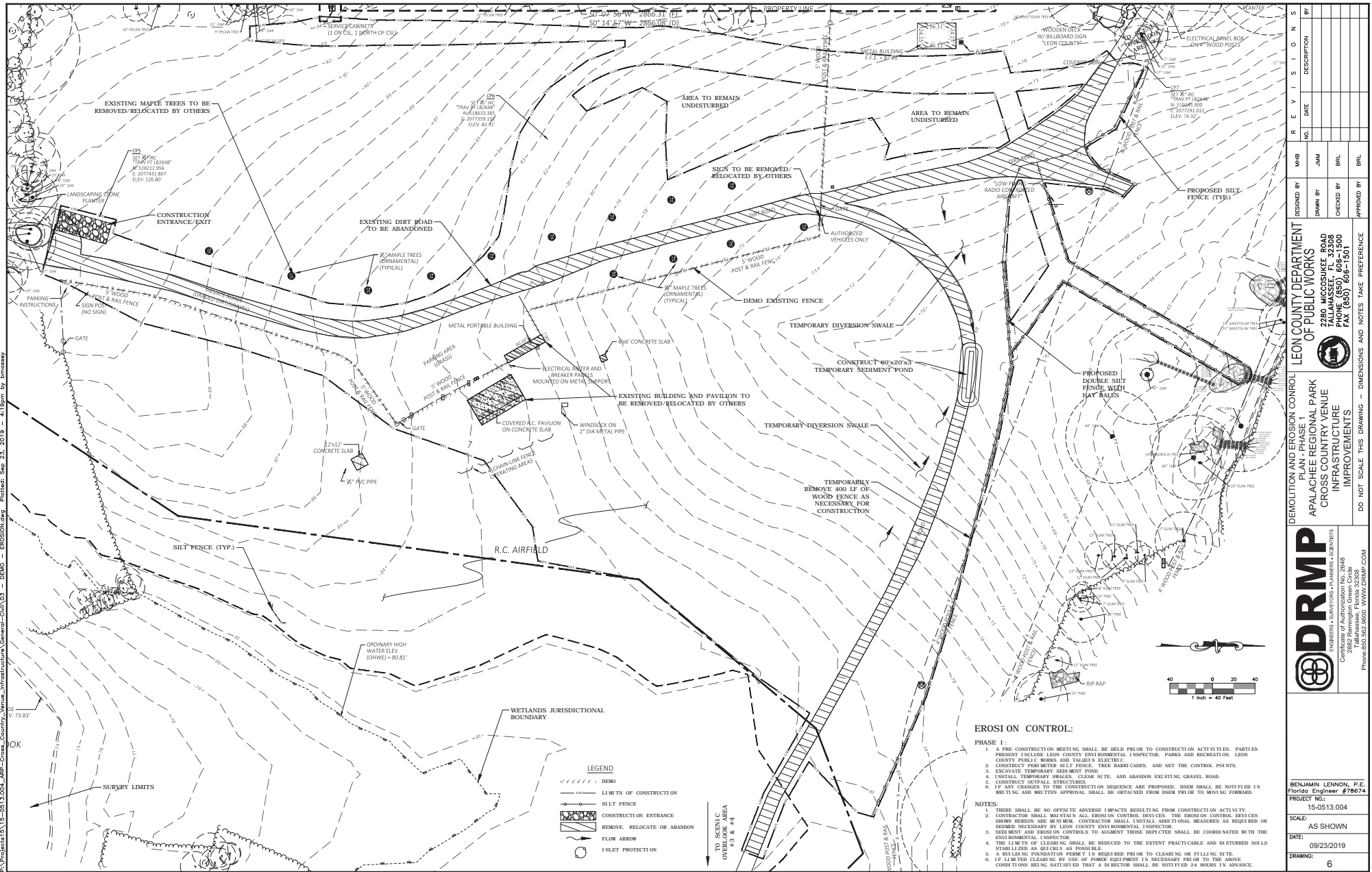
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NO.	DESCRIPTION

DESIGNED BY	MHB
DRAWN BY	JMM
CHECKED BY	BRL
APPROVED BY	BRL

EXISTING CONDITIONS APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS	LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MCCOSKIE ROAD TALLAHASSEE, FL 32308 TALEN@LEONFLA.GOV FAX (904) 309-1501
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DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2848 2901 Tallahassee, Florida 32308 Phone 904.582.8600 WWW.DRMP.COM	JEFFREY R. LANCE Florida No. LS 5657 PROJECT NO: 15-0513.004 SCALE: AS SHOWN DATE: 09/23/2019 DRAWING: 5
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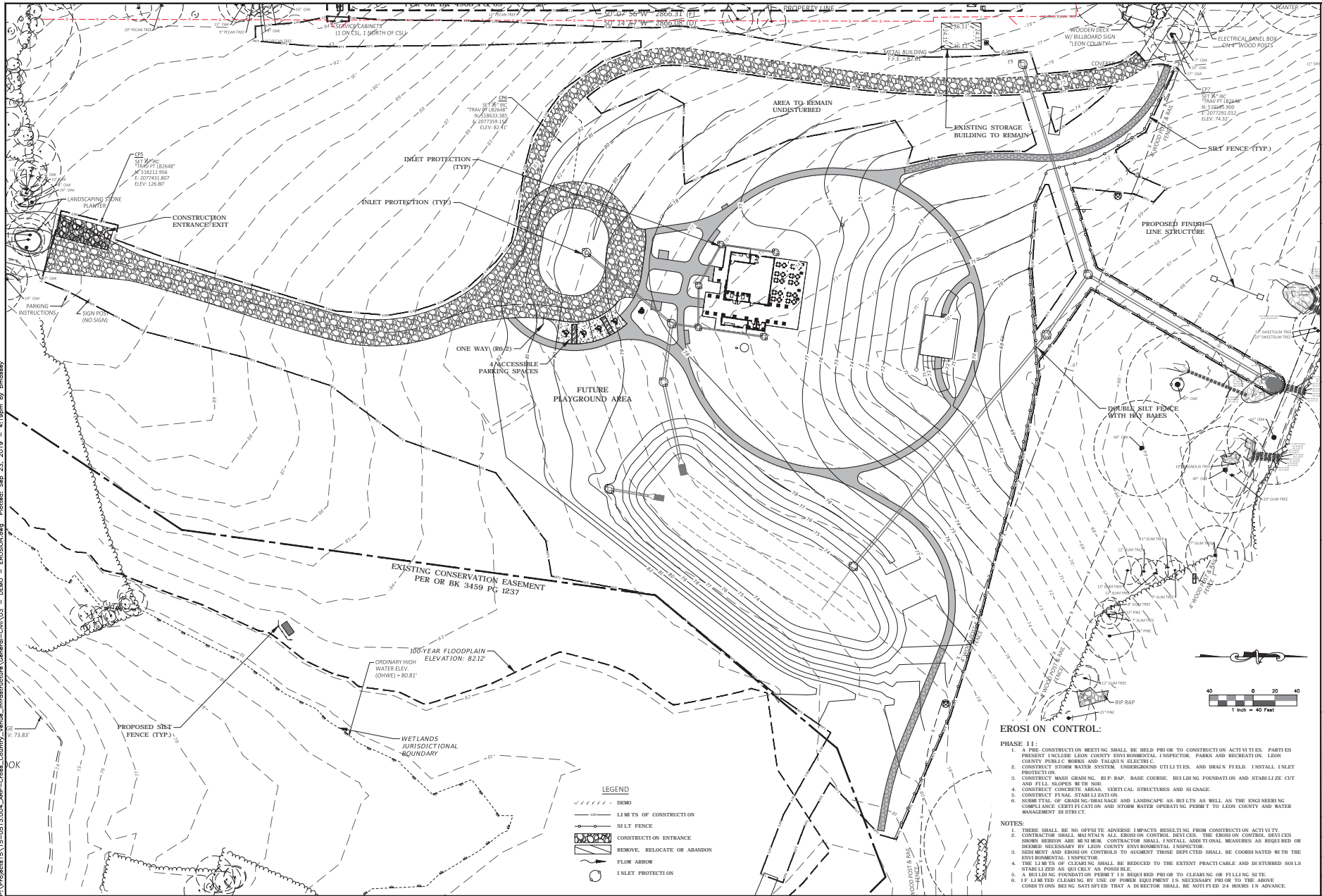
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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY	JMM
DRAWN BY	JMM
CHECKED BY	BRL
APPROVED BY	BRL

DEMOLITION AND EROSION CONTROL LEON COUNTY DEPARTMENT OF PUBLIC WORKS APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS	
2280 MCCOSKIE ROAD TALLAHASSEE, FL 32308 TALEN IN ELECTRIC P.O. BOX 601500 TALLAHASSEE, FL 32308 FAX (904) 309-1501	

DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2848 2800 Tallahassee Plaza, Suite 200 Tallahassee, Florida 32308 Phone 904.582.8800 WWW.DRMP.COM	BENJAMIN LENNON, P.E. Florida Engineer #78674 PROJECT NO.: 15-0513.004 SCALE: AS SHOWN DATE: 09/23/2019 DRAWING: 6
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- EROSION CONTROL:**
- PHASE 11:**
1. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO CONSTRUCTION ACTIVITIES. PARTIES PRESENT INCLUDE LEON COUNTY ENVIRONMENTAL INSPECTOR, PARKS AND RECREATION, LEON COUNTY PUBLIC WORKS AND TALENTA ELECTRIC.
 2. CONSTRUCT STORM WATER SYSTEM, UNDERGROUND UTILITIES, AND DRAIN FIELD. INSTALL INLET PROTECTION.
 3. CONSTRUCT MASS GRADING, RIP-RAP, BASE COURSE, BUILDING FOUNDATION AND STABILIZE CUT AND FILL SLOPES WITH SOIL.
 4. CONSTRUCT CONCRETE AREAS, VERTICAL STRUCTURES AND SIGNAGE.
 5. CONSTRUCT FINAL STABILIZATION.
 6. SUBMITTAL OF GRADING, DRAINAGE AND LANDSCAPE AS BUILTS AS WELL AS THE ENGINEERING COMPLIANCE CERTIFICATION AND STORM WATER OPERATING PERMIT TO LEON COUNTY AND WATER MANAGEMENT DISTRICT.
- NOTES:**
1. THERE SHALL BE NO OFFSITE ADVERSE IMPACTS RESULTING FROM CONSTRUCTION ACTIVITY. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES. THE EROSION CONTROL DEVICES SHOWN HEREON ARE MEANWHILE CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS REQUIRED OR DEEMED NECESSARY BY LEON COUNTY ENVIRONMENTAL INSPECTOR.
 2. SIGN MEASUREMENT AND EROSION CONTROLS TO ALIGN WITH THOSE INSPECTED SHALL BE COORDINATED WITH THE ENVIRONMENTAL INSPECTOR.
 3. THE LIMITS OF CLEARING SHALL BE REDUCED TO THE EXTENT PRACTICABLE AND DISTURBED SOILS STABILIZED AS QUICKLY AS POSSIBLE.
 4. A BUILDING FOUNDATION PERMIT IS REQUIRED PRIOR TO CLEARING OR FILLING SITE.
 5. IF LIMITED CLEARING BY USE OF POWER EQUIPMENT IS NECESSARY PRIOR TO THE ABOVE CONDITIONS BEING SATISFIED THAT A RECTOR SHALL BE NOTIFIED 24 HOURS IN ADVANCE.

REVISIONS	
NO.	DATE DESCRIPTION

DESIGNED BY: MHB
 DRAWN BY: JMM
 CHECKED BY: BRJ
 APPROVED BY: BRJ

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MCCOSHKEE ROAD
 TALLAHASSEE, FL 32308
 PHONE: (904) 609-1500
 FAX: (904) 609-1501

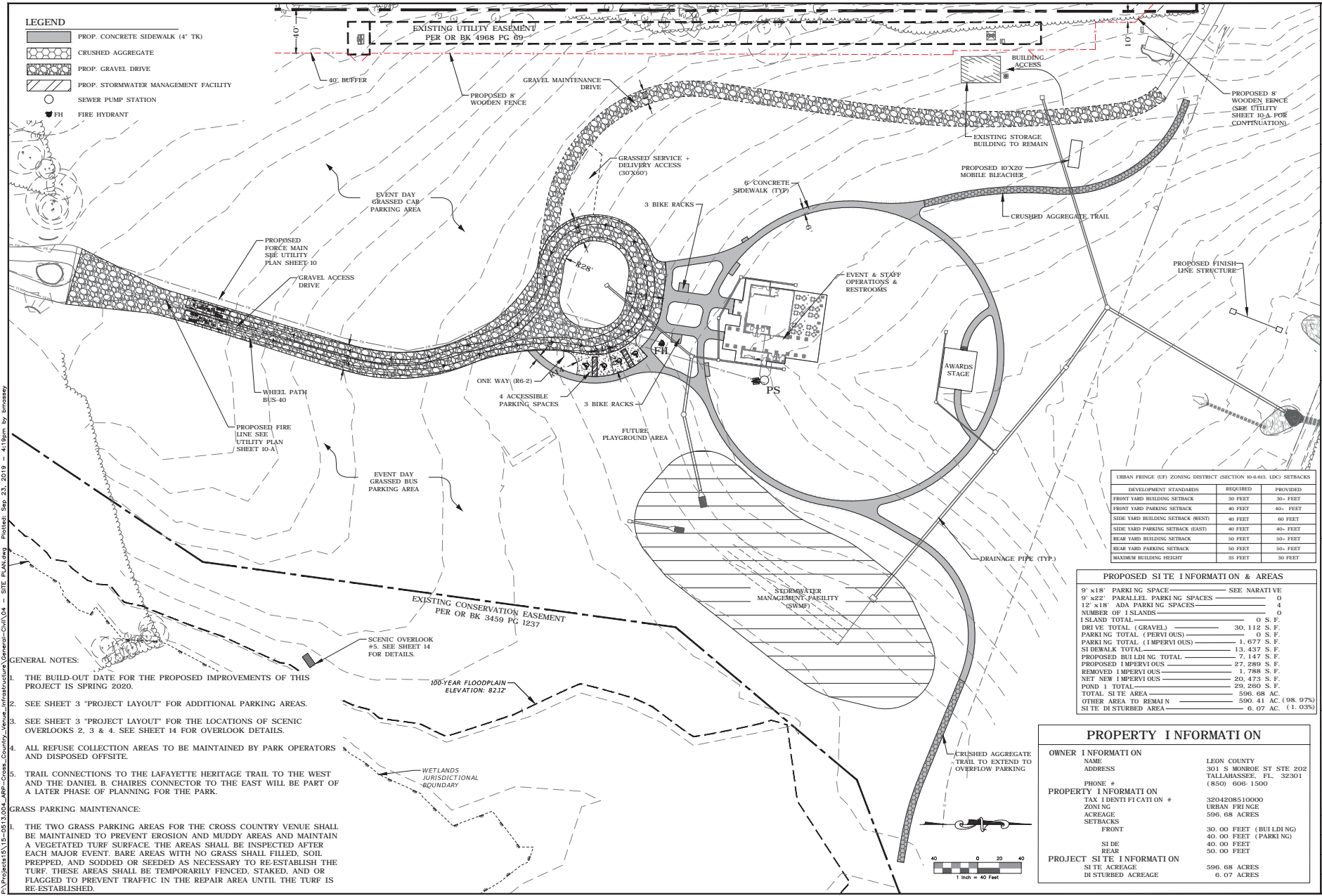
APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS

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 2801 West Tennessee Street, Tallahassee, Florida 32308
 Phone: 904.592.8800 WWW.DRMP.COM

BENJAMIN LENNON, P.E.
 Florida Engineer #78674
 PROJECT NO.: 15-0513.004
 SCALE: AS SHOWN
 DATE: 09/23/2019
 DRAWING: 7

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LEGEND

- PROP. CONCRETE SIDEWALK (4" TK)
- CRUSHED AGGREGATE
- PROP. GRAVEL DRIVE
- PROP. STORMWATER MANAGEMENT FACILITY
- SEWER PUMP STATION
- FIRE HYDRANT

- GENERAL NOTES:**
1. THE BUILD-OUT DATE FOR THE PROPOSED IMPROVEMENTS OF THIS PROJECT IS SPRING 2020.
 2. SEE SHEET 3 "PROJECT LAYOUT" FOR ADDITIONAL PARKING AREAS.
 3. SEE SHEET 3 "PROJECT LAYOUT" FOR THE LOCATIONS OF SCENIC OVERLOOKS 2, 3 & 4. SEE SHEET 14 FOR OVERLOOK DETAILS.
 4. ALL REFUSE COLLECTION AREAS TO BE MAINTAINED BY PARK OPERATORS AND DISPOSED OFFSITE.
 5. TRAIL CONNECTIONS TO THE LAFAYETTE HERITAGE TRAIL TO THE WEST AND THE DANIEL B. CHAIRES CONNECTOR TO THE EAST WILL BE PART OF A LATER PHASE OF PLANNING FOR THE PARK.
- GRASS PARKING MAINTENANCE:**
1. THE TWO GRASS PARKING AREAS FOR THE CROSS COUNTRY VENUE SHALL BE MAINTAINED TO PREVENT EROSION AND MUDDY AREAS AND MAINTAIN A VEGETATED TURF SURFACE. THE AREAS SHALL BE INSPECTED AFTER EACH MAJOR EVENT. BARE AREAS WITH NO GRASS SHALL BE FILLED, SOIL PREPARED, AND SODDED OR SEEDED AS NECESSARY TO RE-ESTABLISH THE TURF. THESE AREAS SHALL BE TEMPORARILY FENCED, STAKED, AND OR FLAGGED TO PREVENT TRAFFIC IN THE REPAIR AREA UNTIL THE TURF IS RE-ESTABLISHED.

URBAN FRINGE (UF) ZONING DISTRICT (SECTION 10-6-613, LDC) SETBACKS

DEVELOPMENT STANDARDS	REQUIRED	PROVIDED
FRONT YARD BUILDING SETBACK	30 FEET	30+ FEET
FRONT YARD PARKING SETBACK	40 FEET	40+ FEET
SIDE YARD BUILDING SETBACK (WEST)	40 FEET	40 FEET
SIDE YARD PARKING SETBACK (EAST)	40 FEET	40 FEET
REAR YARD BUILDING SETBACK	50 FEET	50+ FEET
REAR YARD PARKING SETBACK	50 FEET	50+ FEET
MAXIMUM BUILDING HEIGHT	35 FEET	30 FEET

PROPOSED SITE INFORMATION & AREAS

9' x 18' PARKING SPACE	SEE NARRATIVE
9' x 22' PARALLEL PARKING SPACES	0
12' x 18' ADA PARKING SPACES	4
NUMBER OF ISLANDS	0
ISLAND TOTAL	0 S. F.
DRIVE TOTAL (GRAVEL)	30, 112 S. F.
PARKING TOTAL (PERVIOUS)	0 S. F.
PARKING TOTAL (IMPERVIOUS)	1, 677 S. F.
SI BULKWALK TOTAL	13, 437 S. F.
PROPOSED BUI LDI NG TOTAL	7, 147 S. F.
PROPOSED IMPERVIOUS	27, 289 S. F.
REMOVED IMPERVIOUS	1, 788 S. F.
NET NEW IMPERVIOUS	20, 473 S. F.
POND 1 TOTAL	29, 260 S. F.
TOTAL SITE AREA	596. 68 AC.
OTHER AREA TO REMAIN	590. 41 AC. (98. 97%)
SITE DISTURBED AREA	6. 07 AC. (1. 03%)

PROPERTY INFORMATION

OWNER INFORMATION	
NAME	LEON COUNTY
ADDRESS	301 S MONROE ST STE 202 TALLAHASSEE, FL 32301 (850) 606-1500
PHONE #	
PROPERTY INFORMATION	
TAX IDENTIFICATION #	3204208510000
ZONING	URBAN FRINGE
ACREAGE	596.68 ACRES
SETBACKS	
FRONT	30.00 FEET (BUI LDI NG)
SIDE	40.00 FEET
REAR	50.00 FEET
PROJECT SITE INFORMATION	
SITE ACREAGE	596.68 ACRES
DISTURBED ACREAGE	6.07 ACRES

REVISIONS

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: MMB
 DRAWN BY: JMM
 CHECKED BY: BRJ
 APPROVED BY: BRJ

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MCCOSKIE ROAD
 TALLAHASSEE, FL 32308
 TALLAHASSEE, FL 32308
 FAX (850) 309-1501

PROPOSED SITE PLAN
APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE IMPROVEMENTS

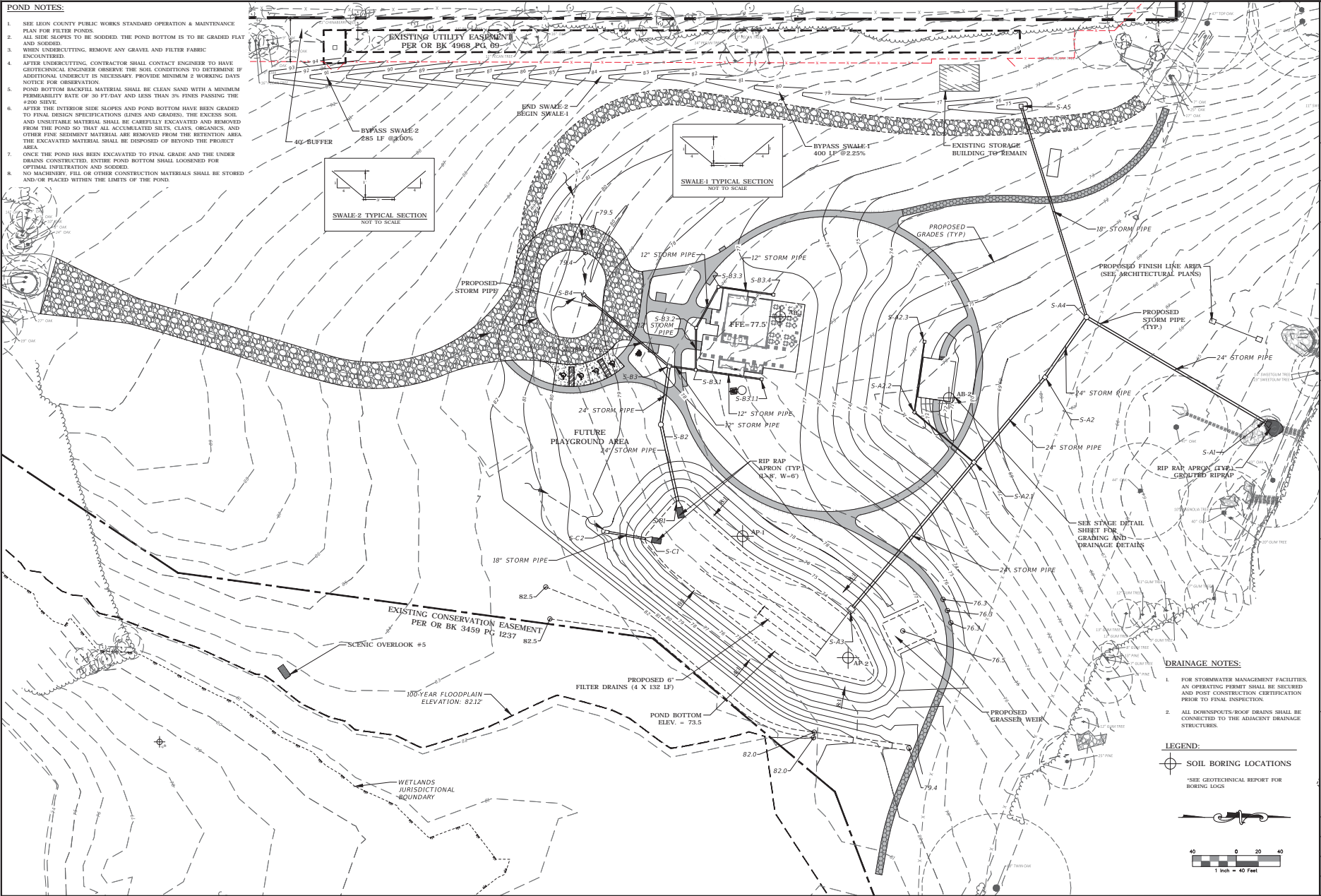
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BENJAMIN LENNON, P.E.
 Florida Engineer #78674
 PROJECT NO.: 15-0513.004
 SCALE: AS SHOWN
 DATE: 09/23/2019
 DRAWING: 8

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- POND NOTES:**
- SEE LEON COUNTY PUBLIC WORKS STANDARD OPERATION & MAINTENANCE PLAN FOR FILTER PONDS.
 - ALL SIDE SLOPES TO BE SODDED THE POND BOTTOM IS TO BE GRADED FLAT AND SODDED.
 - WHEN UNDERCUTTING, REMOVE ANY GRAVEL AND FILTER FABRIC ENCOUNTERED.
 - AFTER UNDERCUTTING, CONTRACTOR SHALL CONTACT ENGINEER TO HAVE GEOTECHNICAL ENGINEER OBSERVE THE SOIL CONDITIONS TO DETERMINE IF ADDITIONAL UNDERCUT IS NECESSARY. PROVIDE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION.
 - POND BOTTOM BACKFILL MATERIAL SHALL BE CLEAN SAND WITH A MINIMUM PERMEABILITY RATE OF 30 FT/DAY AND LESS THAN 2% FINER PASSING THE #200 SIEVE.
 - AFTER THE INTERIOR SIDE SLOPES AND POND BOTTOM HAVE BEEN GRADED TO FINAL DESIGN SPECIFICATIONS (LINES AND GRADES), THE EXCESS SOIL AND UNSUITABLE MATERIAL SHALL BE CAREFULLY EXCAVATED AND REMOVED FROM THE POND SO THAT ALL ACCUMULATED SHETS, CLAYS, ORGANICS, AND OTHER FINE SEDIMENT MATERIAL ARE REMOVED FROM THE RETENTION AREA. THE EXCAVATED MATERIAL SHALL BE DISPOSED OF BEYOND THE PROJECT AREA.
 - ONCE THE POND HAS BEEN EXCAVATED TO FINAL GRADE AND THE UNDER DRAINS CONSTRUCTED, ENTIRE POND BOTTOM SHALL LOOSENED FOR OPTIMAL INFILTRATION AND SODDED.
 - NO MACHINERY, FILL, OR OTHER CONSTRUCTION MATERIALS SHALL BE STORED AND/OR PLACED WITHIN THE LIMITS OF THE POND.



- DRAINAGE NOTES:**
- FOR STORMWATER MANAGEMENT FACILITIES, AN OPERATING PERMIT SHALL BE SECURED AND POST CONSTRUCTION CERTIFICATION PRIOR TO FINAL INSPECTION.
 - ALL DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE ADJACENT DRAINAGE STRUCTURES.

- LEGEND:**
- SOIL BORING LOCATIONS
 - *SEE GEOTECHNICAL REPORT FOR BORING LOGS

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NO.	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE

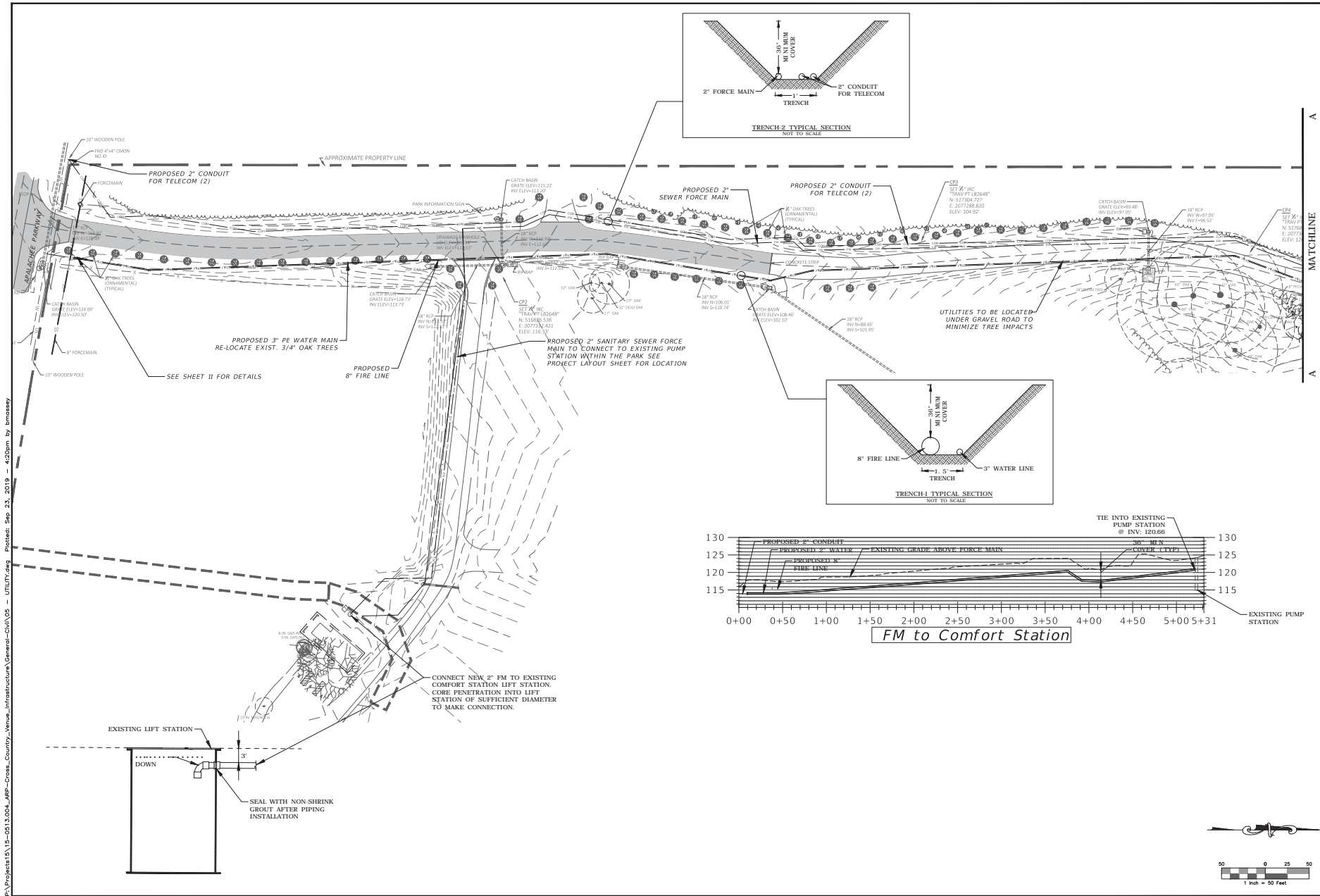
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GRADING AND DRAINAGE PLAN
APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE IMPROVEMENTS

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 Florida Engineer #78674
 PROJECT NO.: 15-0513.004
 SCALE: AS SHOWN
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MHB JMM BRH BRH	DESIGNED BY DRAWN BY CHECKED BY APPROVED BY
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LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MCCOSKIE ROAD TALLAHASSEE, FL 32308 PHONE (904) 609-1500 FAX (904) 609-1501	UTILITY PLAN APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS
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MATCHLINE A

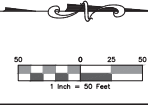
MATCHLINE A

TIE INTO EXISTING PUMP STATION @ INV. 120.66

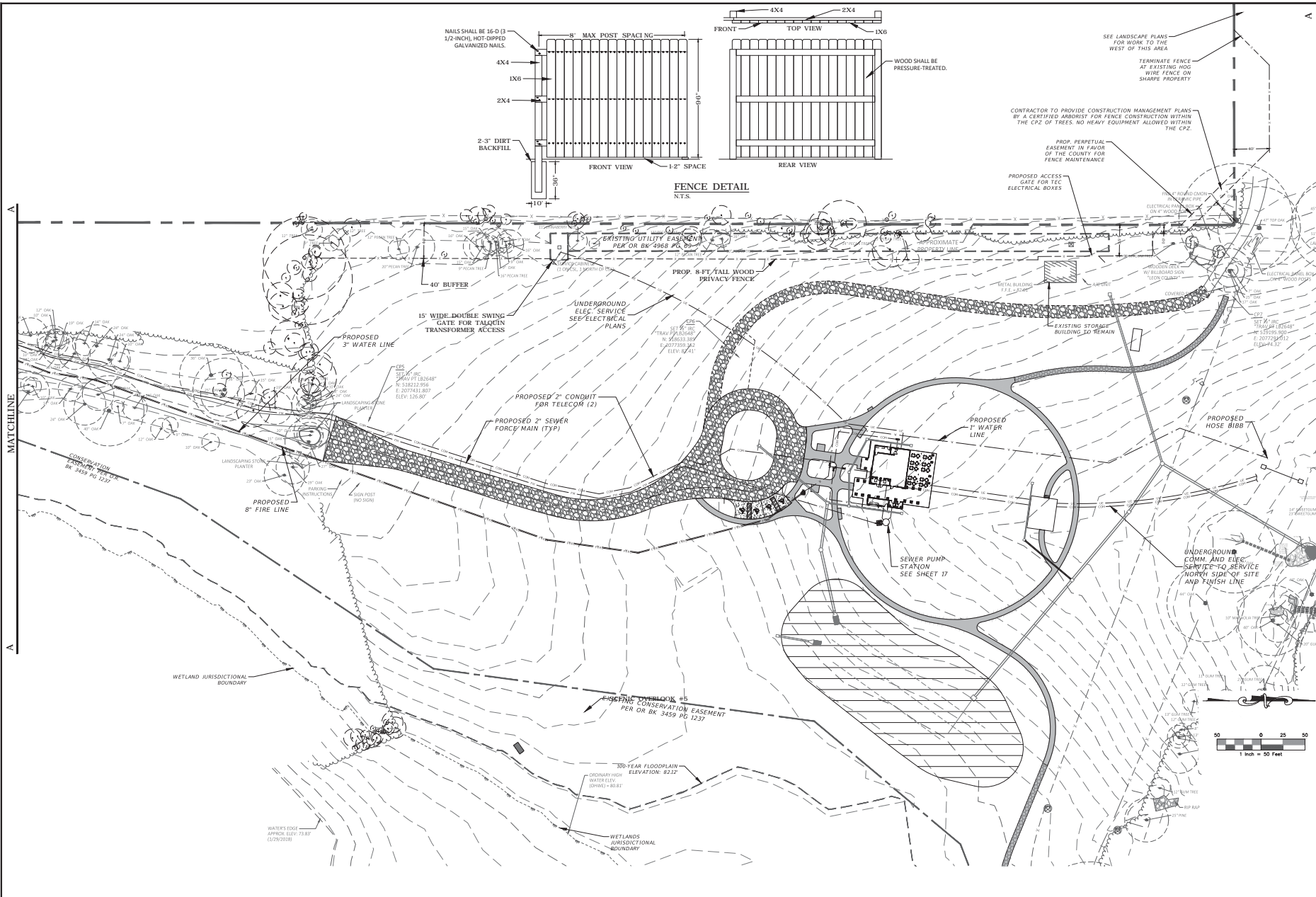
EXISTING PUMP STATION

FM to Comfort Station

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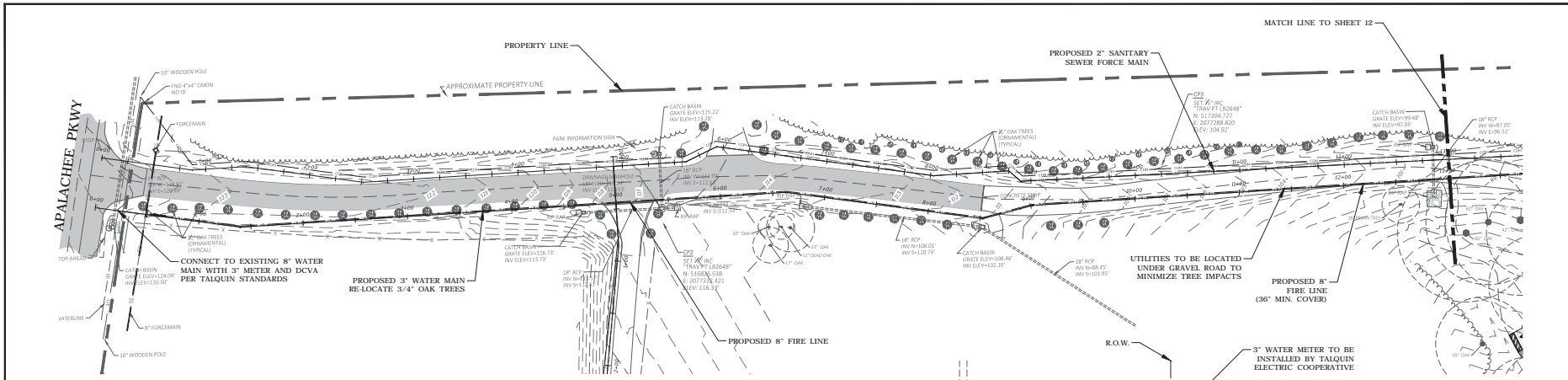
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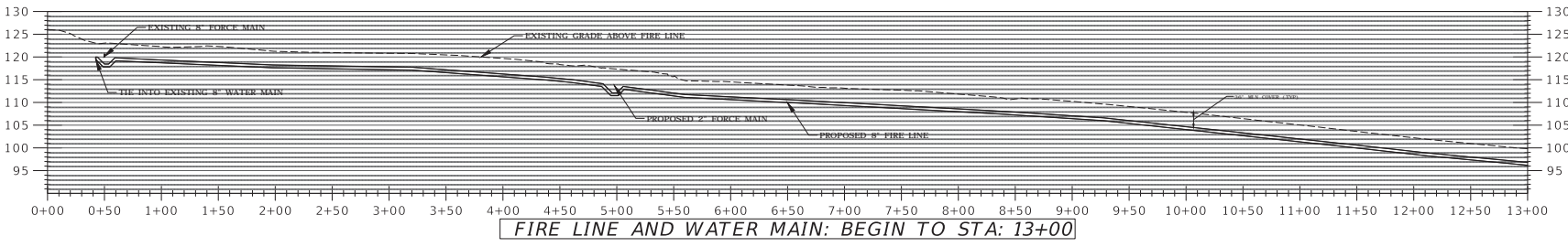
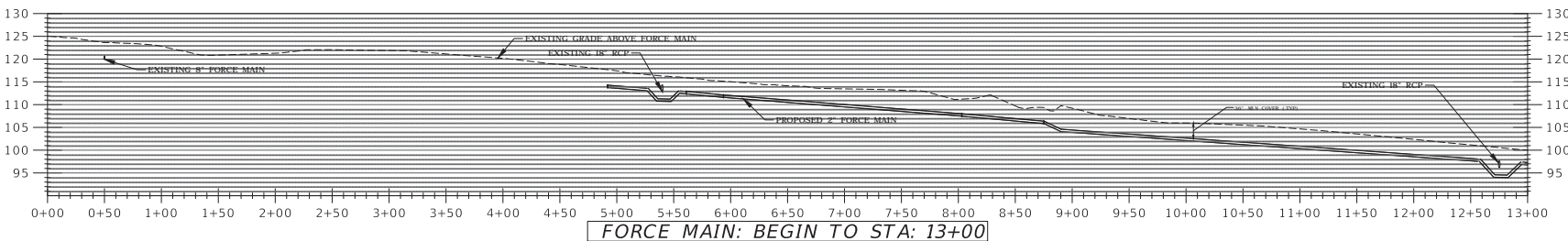
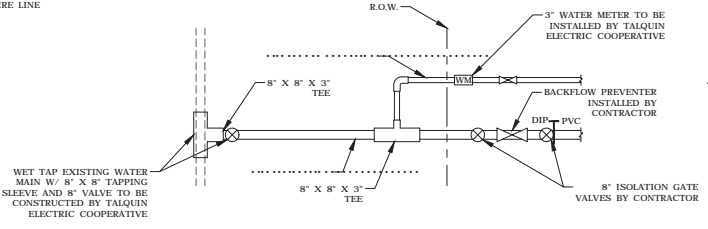
UTILITY PLAN
 APALACHEE REGIONAL PARK
 CROSS COUNTRY VENUE
 INFRASTRUCTURE IMPROVEMENTS

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BENJAMIN LENNON, P.E.
 Florida Engineer #78674
 PROJECT NO: 15-0513.004
 SCALE: AS SHOWN
 DATE: 09/23/2019
 DRAWING: 10-A



- NOTES:**
- 36" MIN. COVER REQUIRED FOR 2" FORCEMAIN
 - WATER MAIN SHALL BE SDR-21 PVC OF THE SIZE SPECIFIED ON THE PLANS.
 - GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR 35, ASTM D 3034, OF THE SIZE SPECIFIED.
 - SANITARY FORCE MAIN SHALL BE HDPE DR 21 (80 PSI)



NO.	DATE	DESCRIPTION	BY

DESIGNED BY	MHB
DRAWN BY	JMM
CHECKED BY	BRL
APPROVED BY	BRL

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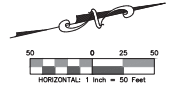
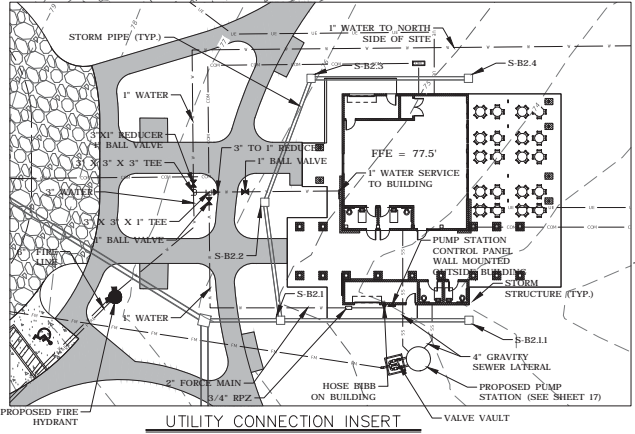
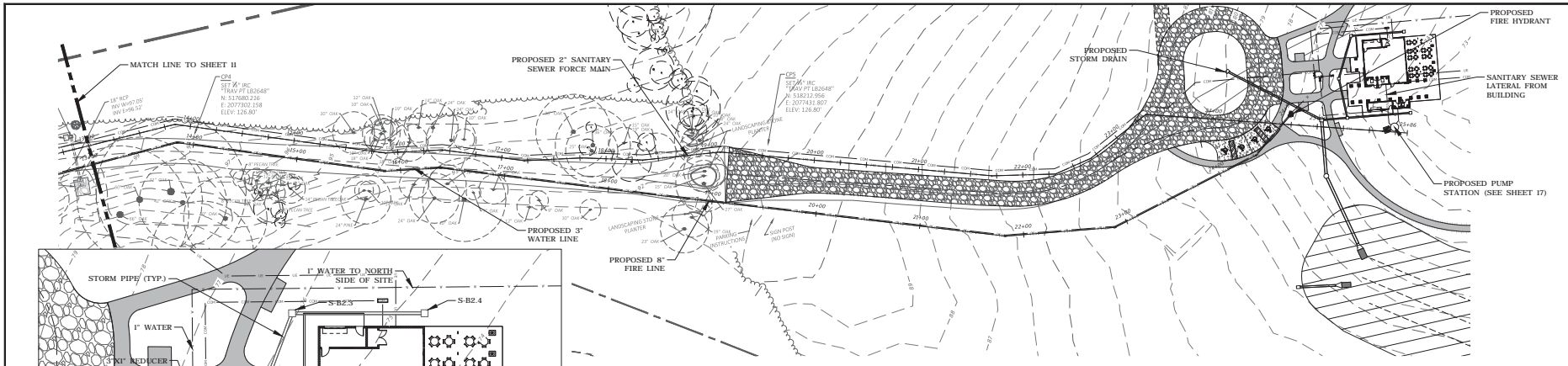
UTILITY PLAN AND PROFILE
 APALACHEE REGIONAL PARK
 CROSS COUNTRY VENUE
 INFRASTRUCTURE IMPROVEMENTS

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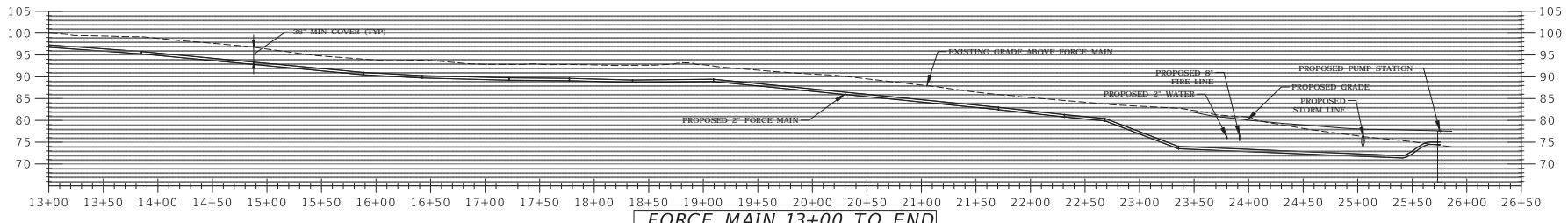
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 Florida Engineer #78674
 PROJECT NO.: 15-0513.004
 SCALE: AS SHOWN
 DATE: 09/23/2019
 DRAWING: 11

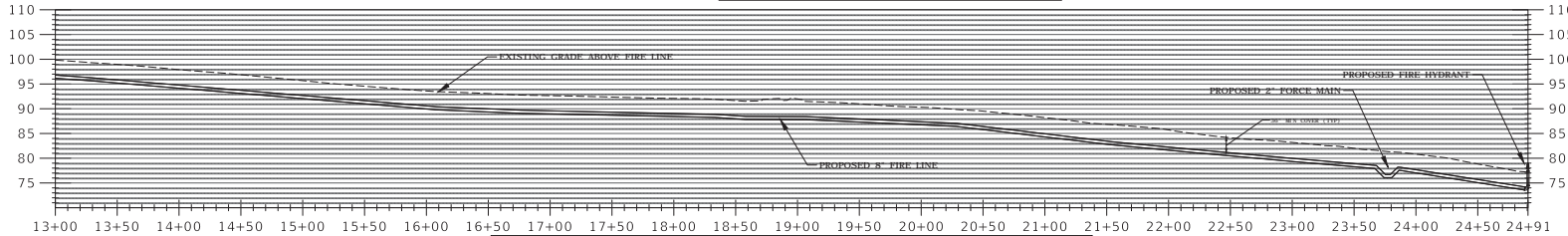
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- NOTES:**
- 36" MIN. COVER REQUIRED FOR 2" FORCEMAIN
 - WATER MAIN SHALL BE SDR-21 PVC OF THE SIZE SPECIFIED ON THE PLANS.
 - GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR 35, ASTM D 3034, OF THE SIZE SPECIFIED.
 - SANITARY FORCE MAIN SHALL BE HDPE DR 21 (80 PSI)



FORCE MAIN 13+00 TO END



FIRE LINE AND WATER MAIN: 13+00 TO STA: END

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UTILITY PLAN AND PROFILE
 APALACHEE REGIONAL PARK
 CROSS COUNTRY VENUE
 INFRAStructure IMPROVEMENTS

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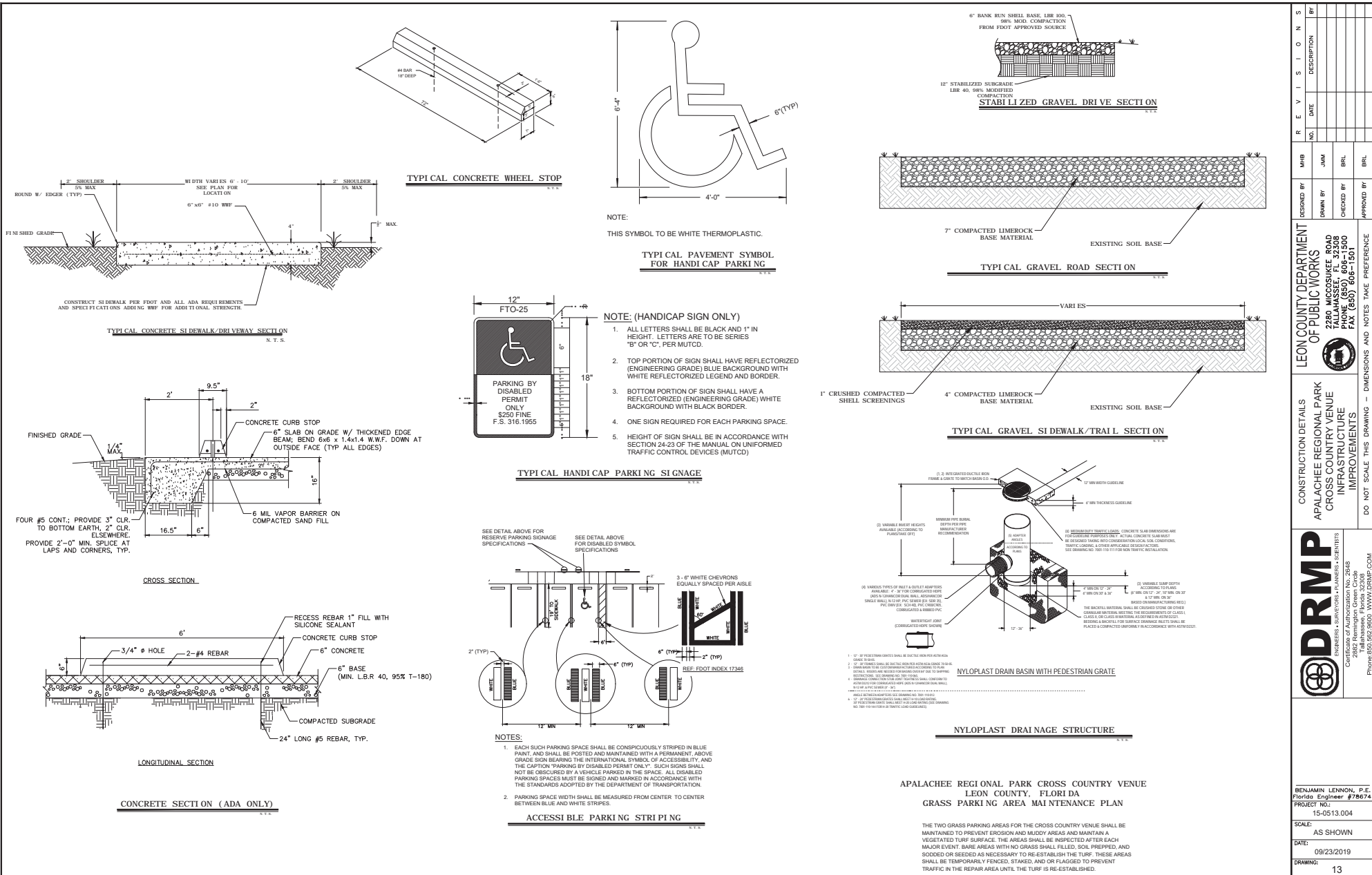
BENJAMIN LENNON, P.E.
 Florida Engineer #78674
 PROJECT NO.: 15-0513.004

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DATE: 09/23/2019

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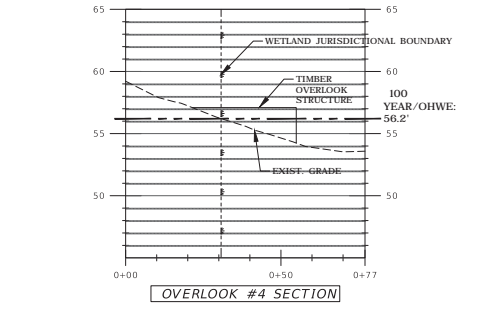
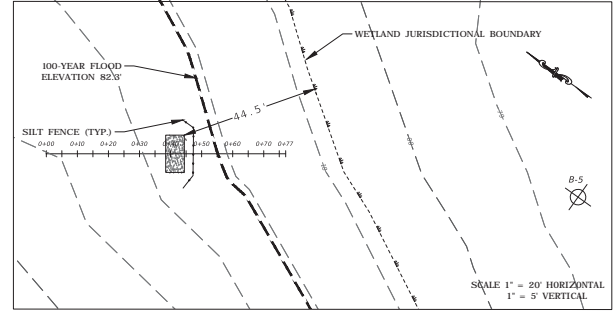
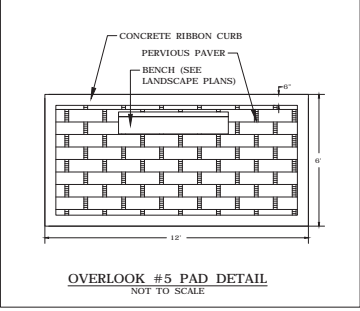
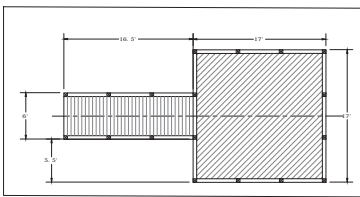
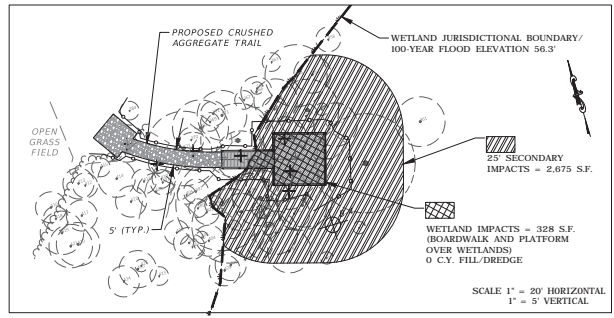
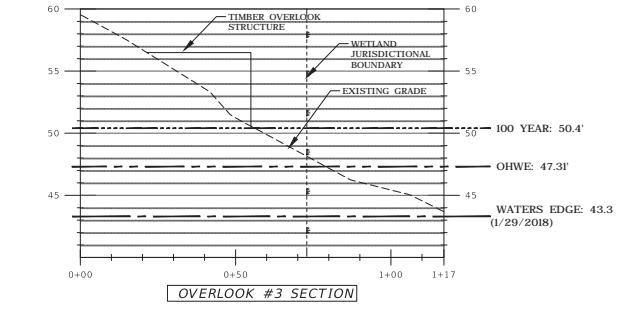
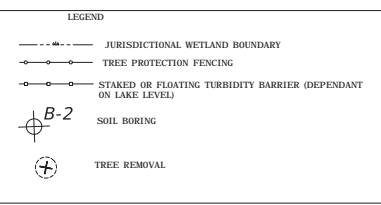
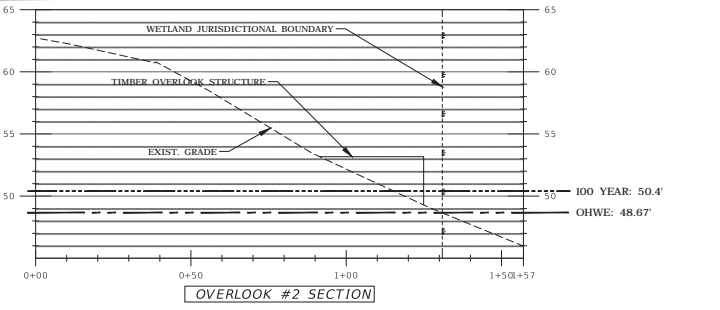
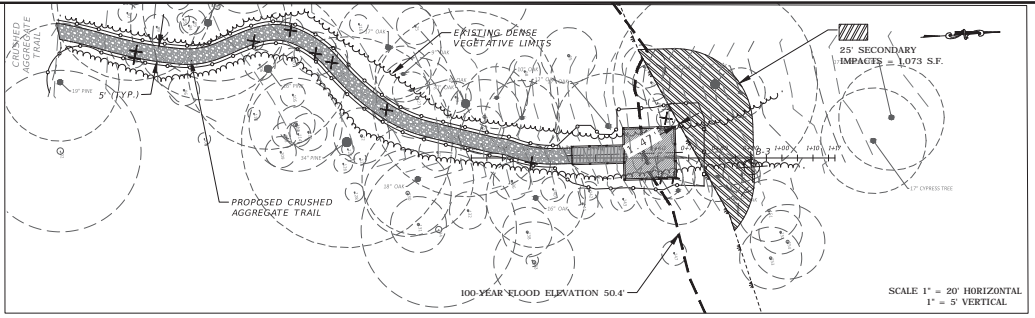
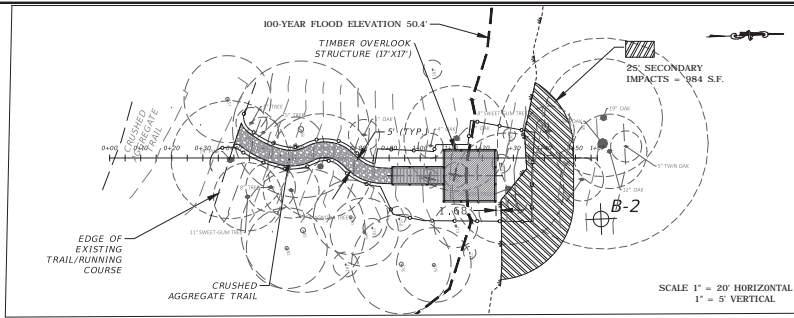
CONSTRUCTION DETAILS
 APALACHEE REGIONAL PARK
 CROSS COUNTRY VENUE
 INFRASTRUCTURE IMPROVEMENTS

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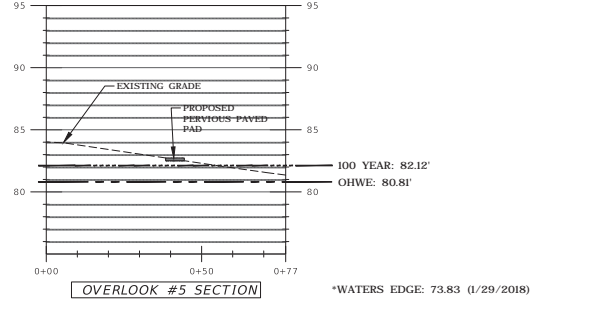
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 PROJECT NO. 15-0513.004
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Tree Removal Table			
Location	Tree No.	Common Name	DBH (Inches)
Overlook #2	177	Laurel Oak	3
Overlook #2	162	Flowering Dogwood	4
Overlook #3	97	Sweetgum	2
Overlook #3	98	Laurel Oak	3
Overlook #3	112	Pignut Hickory	3
Overlook #3	107	Pignut Hickory	4
Overlook #3	104	Pignut Hickory	7
Overlook #3	113	Water Oak	5
Overlook #3	123	Pignut Hickory	4
Overlook #3	139	Pignut Hickory	6
Overlook #3	145	Pignut Hickory	7
Overlook #3	146	Pignut Hickory	7
Overlook #3	59	Red Maple	3
Overlook #4	383	Chinaberry	6
Overlook #4	409	Hackberry	3
Overlook #4	371	Hackberry	12
Overlook #4	365	Hackberry	7
Overlook #4	374	Water Oak	9
Overlook #4	392	American Hornbeam	6
Overlook #4	365	Hackberry	7



*WATERS EDGE: 73.83 (1/29/2018)

DESIGNED BY	MHB	DATE		DESCRIPTION	
DRAWN BY	JAM				
CHECKED BY	BRL				
APPROVED BY	BRL				

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
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TALAHASSEE, FL 32308
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SCENIC OVERLOOKS NO. 2, 3, 4 AND 5 AT APALACHEE REGIONAL PARK CROSS COUNTRY VENUE IMPROVEMENTS

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Florida Engineer #78674
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 09/23/2019
DRAWING: 14

SEEDING

CONSTRUCTION SPECIFICATIONS:

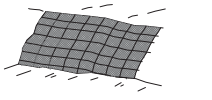
TIMING:
APPLY PERMANENT SEEDING ON AREAS LEFT DORMANT FOR 1 YEAR OR MORE. APPLY PERMANENT SEEDING WHEN NO FURTHER DISTURBANCES ARE PLANNED. TO DETERMINE OPTIMUM SEEDING SCHEDULE, CONSULT A LOCAL AGRONOMIST OR EROSION CONTROL SPECIALIST. APPLY PERMANENT SEEDING BEFORE SEASONAL RAINS OR FREEZING WEATHER IS ANTICIPATED. USE DOMINANT SEEDING FOR LATE FALL OR WINTER SEEDING SCHEDULES.

SEED MIXES:
USE SEEDS APPROPRIATE TO THE SEASON AND SITE CONDITIONS. CONSULT LOCAL AGRONOMIST OR EROSION CONTROL SPECIALIST FOR SEED MIX. USE A SEED BLEND TO INCLUDE ANNUALS, PERENNIALS AND LEGUMES. USE SEED RATES BASED ON PURE LIVE SEED (PLS) OF 90% WHEN PLS IS BELOW 90% ADJUST RATES ACCORDINGLY.

SITE PREPARATION:
BRIEF THE PLANTING AREA TO FINAL GRADE AND INSTALL THE NECESSARY EROSION CONTROL PRACTICES. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDING AREA. CONDUCT SOIL TEST TO DETERMINE PH AND NUTRIENT CONTENT. ROUGHEN THE SOIL BY HARROWING, TRACKING, GROOVING OR FURROWING. APPLY AMENDMENTS AS NEEDED TO ADJUST PH TO 6.0-7.5. INCORPORATE THESE AMENDMENTS INTO THE SOIL. PREPARE A 3-5" DEEP SEEDBED, WITH THE TOP 3-4" INCHES (76-102 MM) CONSISTING OF TOPSOIL. THE SEEDBED SHOULD BE FIRM BUT NOT COMPACT. THE TOP THREE INCHES OF SOIL SHOULD BE LOOSE, MOIST AND FREE OF LARGE CLUMPS AND STONES. THE TOPSOIL SURFACE SHOULD BE IN SEASONARILY CLOSE CONFORMITY TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE GRADING PLANS.

PLANTING:
SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. SEED SHOULD BE APPLIED IMMEDIATELY AFTER SEEDBED PREPARATION WHILE THE SOIL IS LOOSE AND MOIST. IF THE SEEDBED HAS BEEN LIE LONG ENOUGH FOR THE SOIL TO BECOME COMPACT, THE TOPSOIL SHOULD BE HARROWED WITH A DISK, SPRING TOOTH DRAG, SPIKE TOOTH DRAG, OR OTHER EQUIPMENT DESIGNED TO CONDITION THE SOIL FOR SEEDING. HARROWING, TRACKING OR FURROWING SHOULD BE DONE HORIZONTALLY ACROSS THE SLOPE. ALWAYS APPLY SEED BEFORE APPLYING MULCH. APPLY SEED AT THE RATES SPECIFIED USING CALIBRATED SEED SPREADERS, CYCLONE SEEDERS, WHEGIAN CAL. DRILLS, OR HYDROSEEDING SO THE SEED IS APPLIED UNIFORMLY ON THE SITE. BROADCAST SEED SHOULD BE INCORPORATED INTO THE SOIL BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY COMPACTED TO PROVIDE GOOD SEED-SOIL CONTACT. APPLY FERTILIZER AS SPECIFIED. APPLY MULCH OR EROSION CONTROL BLANKET, AS SPECIFIED, OVER THE SEEDED AREAS.

INSPECTION AND MAINTENANCE:
NEWLY SEEDED AREAS NEED TO BE INSPECTED FREQUENTLY TO ENSURE THE GRASS IS GROWING. IF THE SEEDING AREA IS DAMAGED DUE TO RUNOFF, ADDITIONAL STORMWATER MEASURES MAY BE NEEDED. SPOT SEEDING CAN BE DONE ON SMALL AREAS TO FILL IN BARE SPOTS WHERE GRASS DID NOT GROW PROPERLY.



A PERMANENT VEGETATION USING 500S ON HEAVILY ERODED OR OTHERWISE ERODED LANDS.

ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD OR LEGUMES ON DISTURBED AREAS. USE PENSAOLA BAHIA FOR PERMANENT COVER. REFER TO SHEET C-7.

DISTURBED AREA STABILIZATION (WITH SODDING)

DISTURBED AREA STABILIZATION (WITH PERM VEGETATION)

TEMPORARY SEEDING

(TO BE USED DURING CONSTRUCTION TO STABILIZE SOIL AND REDUCE EROSION)

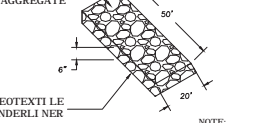
SPECIES	BROADCAST RATE PER ACRE (PLS PER 1000)	RESIDUE	REMARKS
MILLET, BROWNTOP (Panicum polyanthemum) ALONE IN MIXTURES	40 lbs. 0.91% 10 1/2 MURKINS	MOUNTAIN SOUTHERN SOUTHWEST SOUTHEAST PLAIN	137,000 SEED PER POUND OR 1000 SEED PER MURKIN. COVER WILL PROVIDE MUCH COMPETITION IN MIXTURES IF SEEDED AT 10 1/2 MURKINS.
RYE (Secal cereale) ALONE IN MIXTURES	3 lbs. 3.91% 1/2 lb. 0.61% (28 lbs.)	MOUNTAIN SOUTHERN SOUTHWEST SOUTHEAST PLAIN	18,000 SEED PER POUND RYE COVER VERY COMPETITIVE AND IS WINTERING TO BE USED IN MIXTURES.
PERENNIAL ANNUAL (Lolium rigidum) ALONE	40 lbs. 0.91%	MOUNTAIN SOUTHERN SOUTHWEST SOUTHEAST PLAIN	227,000 SEED PER POUND RYE COVER VERY COMPETITIVE AND IS WINTERING TO BE USED IN MIXTURES.

PERMANENT SEEDING

(TO BE USED AFTER FINAL GRADING FOR PERMANENT SEEDING)
(FOR DISTURBED AREAS NOT COVERED IN LANDSCAPE PLANS)

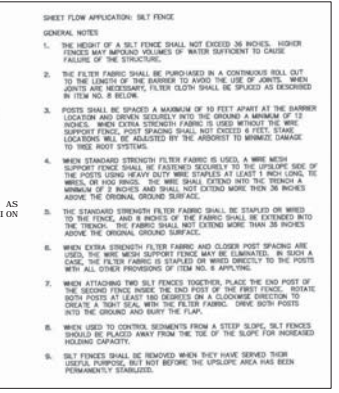
SPECIES	BROADCAST RATE PER ACRE (PLS PER 1000)	RESIDUE	REMARKS
BAHA GRASS (Bouteloua curtipendula) ALONE WITH OTHER PERENNIALS	10 lbs. 0.21% 0.1 lbs. 0.11%	PERENNIAL SOUTHWEST SOUTHEAST PLAIN	1,787,000 SEED PER POUND OR 1000 SEED PER MURKIN. LOW GROWING AND SOIL PROTECTIVE COVER. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BAHA GRASS WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 lbs. 0.21% 0.1 lbs. 0.11%	SOUTHERN SOUTHWEST SOUTHEAST PLAIN	PLANT WITH WINTER PLANT WITH TALL FENCE.

N. S. A. R-2
#1 STONE
COARSE
AGGREGATE



NOTE: SEE PLANS FOR DIMENSIONS.

CONSTRUCTION ENTRANCE DETAIL



VEGETATIVE PLAN

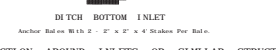
SPECIES	RATES PER ACRE	PLANTING DATES
AGRICULTURAL LIMESTONE FERTILIZER, 5-10-15 MELCH STRAIN MAY	4,000 LBS. 5,000 LBS.	
BILLED COMMON BERMUDA GRASS	10 LBS.	3/1 - 6/15
HAY MULCH FOR TEMPORARY COVER	5,000 LBS.	6/15 - 8/31
TOPDRESSING 33.5% AMMONIUM NITRATE SECOND YEAR FERTILIZER 5-10-15 (OR EQUAL)	300 LBS. 800 LBS.	WHEN PLANTS ARE 2' - 4' TALL.

SEEDING SCHEDULE

SPECIES	RATES PER ACRE	PLANTING DATES
SEEDING: RYE GRASS RYE GRASS W/MIXTURE	168 LBS. 30 LBS.	15 JULY-30 JANUARY 1 MARCH-30 SEPTEMBER 1 OCTOBER-28 FEBRUARY
FERTILIZER: 5-10-15 MELCH STRAW	1,800 LBS. 2 TONS 2 TONS	

NOTE: DURING "HIGH FALLOUT" MONTHS SEEDING CONTRACTOR TO SPREAD MULCH OR HAY FOR SLOPE STABILIZATION.
-USE A MINIMUM OF 40 LBS. SEED PER SEED. REMAINDER MAY BE UNCALIBRATED. CLEAN HILLED SEED.
-USE EITHER COMMON SEED OR INTERSTATE SERVICIA LESPEDICAL.
-ALL AREAS TO BE SEEDED SHALL HAVE LIME APPLIED AT A RATE OF 80 LB./1000 S.F. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
-ALL AREAS SEEDER SHALL HAVE AN APPLICATION OF STRAW MULCH (APPROXIMATELY 2 1/2 TONS PER ACRE) IMMEDIATELY AFTER PLANTING REGARDLESS OF PLANTING METHOD.
-MAINTAIN 1 YEAR MINIMUM FERTILIZER - AGRICULTURAL LIME 1 TON PER ACRE 8-12-12 OR 5-10-15 1000 LB. PER ACRE

CONSTRUCTION ENTRANCE DETAIL

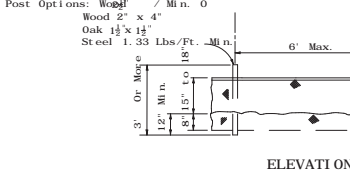


DI TCH BOTTOM INLET
Anchor Bolt with 2" x 2" x 4" Stainless Post Bolt.

PROTECT ON ROUND INLETS OR SIMILAR STRUCTURES



BALES BACKED BY FENCE



ELEVATION

SECTION

SILT FENCE

Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (L.F.).

EROSION CONTROL GENERAL NOTES

- EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED ON A REGULAR BASIS.
- EXCESS SEDIMENT TO BE REMOVED WHEN SILT REACHES ONE-HALF (1/2) THE HEIGHT OF THE FENCE.
- TEMPORARY GRASSING IS NOT TO BE LESS THAN TWO (2) DAYS AFTER COMPLETION OF ANY GRADE ACTIVITIES.
- ALL DRAINAGE STRUCTURES TO BE EROSION PROTECTED (WITH REPAIR AS PER DETAIL ON THE SHEET) ALL REPAIR SHALL BE TYPE 1 STONE PLAIN IN ACCORDANCE WITH THE LATEST EDITION OF FOOT STANDARD SPECIFICATIONS.
- ALL HEAD WALLS ARE TO HAVE STORAGE DAM OUTLET PROTECTION AND SILT TRAP DEVICES.
- SILT FENCES MUST MEET THE REQUIREMENTS OF FOOT STANDARD SPECIFICATIONS, LATEST EDITION.
- PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL FOLLOWING FINAL GRADING.
- NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO CONSTRUCTION.
- EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY THE GENERAL CONTRACTOR AS NEEDED.
- CONTRACTOR TO COMPLETELY SECURE FROM EROSION ANY STOCK PILE OF EARTHEN MATERIALS. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY MATERIAL STOCKPILE LOCATIONS PRIOR TO COMMENCING WORK. THE LOCATIONS WILL BE COMPLIED WITH THE DESIGN ENGINEER AND CONTRACTING OFFICER, AND THE ESPP PLAN WILL BE "REDELETED" WITH APPROPRIATE BMP'S TO REFLECT THE LOCATIONS.
- EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF FOOT.
- ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE PROJECT ENGINEER, OWNER REPRESENTATIVE OR AS CONDITIONS MAY DICTATE.
- MAINTENANCE CUT OR FILL SLOPES 1:5 OR FLATTER.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
- DETENTION ON POND, DETENTION ON OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES AND ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-RESTORING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS.
- ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
- THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
- NO WASTE WILL BE DISPOSED INTO STORM WATER INLET OR WATER OF THE STATE.
- IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ADEQUATE ROOM HAS BEEN PROVIDED WITHIN THE PROJECT LIMITS FOR REMOVAL OF BMP'S. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE BEYOND THE LIMITS OF CONSTRUCTION/DISTURBANCE TO REMOVE BMP'S.
- CONTRACTOR IS REQUIRED TO OBTAIN NPDES PERMIT OR EXEMPTION CERTIFICATION FOR THE CONSTRUCTION.

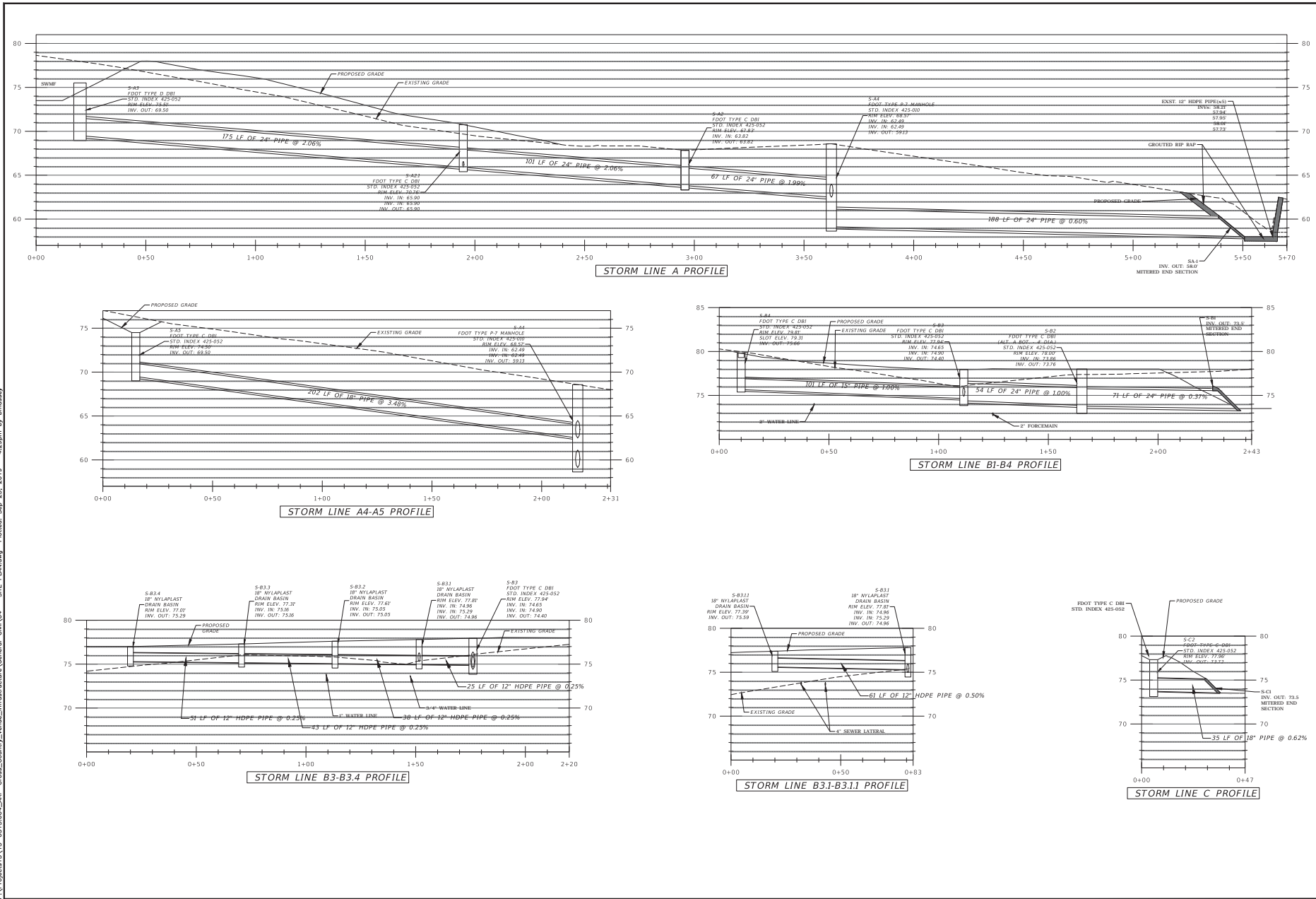
DESIGNED BY: MMB
DOWN BY: JMM
CHECKED BY: BRL
APPROVED BY: BRL

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MCCOSKEY ROAD
TALLAHASSEE, FL 32308
TELEPHONE: 904-651-1500
FAX: (904) 651-1501

EROSION CONTROL DETAILS
APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE IMPROVEMENTS

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BENJAMIN LENNON, P.E.
Florida Engineer #78674
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 09/23/2019
DRAWING: 15



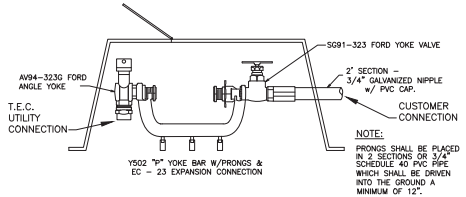
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REVISIONS		DESIGNED BY		CHECKED BY		APPROVED BY	
NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE

DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 28448 2800 South Broward Blvd., Suite 320 Ft. Lauderdale, Florida 33309 Phone: 561.582.8800 WWW.DRMP.COM	LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MCCOSKIE ROAD TALLAHASSEE, FL 32308 PHONE: (904) 609-1500 FAX: (904) 609-1501
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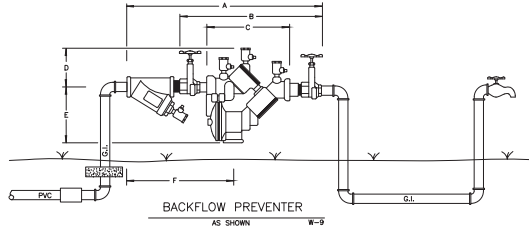
DRAINAGE DETAILS APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE
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BENJAMIN LENNON, P.E. Florida Engineer #78674	PROJECT NO.: 15-0513.004
SCALE: AS SHOWN	DATE: 09/23/2019
DRAWING: 16	APPROVED BY:

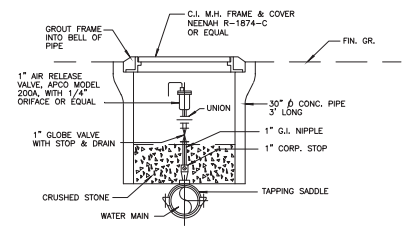


SINGLE YOKE BOX METER CONNECTION
N.T.S. W-8

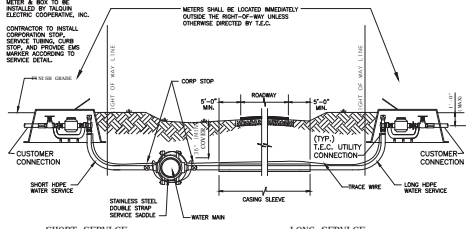
SIZE	DIMENSIONS (Inches)							Total weight (lbs)		
	A	B	C	D	E	F	G	Width Strainer	With Strainer	
3/4"	18	13	7 5/16	4	4 3/4	9 3/4	5 1/4	3 7/8	14	15 7/8
1"	19	13 1/2	7 5/16	4	4 3/4	11 1/2	5 1/2	3 7/8	15	17 1/2
1-1/4"	23 1/8	18 5/8	10 3/8	5	6 5/8	12 1/2	6	5 1/4	40	42 3/4
1-1/2"	23 5/16	18 7/8	10 3/8	5	6 5/8	13 1/2	6	5 1/4	40	44
2"	25 5/16	17 5/8	10 3/8	5	6 5/8	14 1/2	6 1/4	5 1/4	40	47 3/8



BACKFLOW PREVENTER
AS SHOWN W-9



AIR RELEASE VALVE DETAIL
N.T.S. W-2

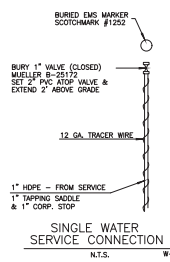


TYPICAL HDPE WATER SERVICE PROFILE

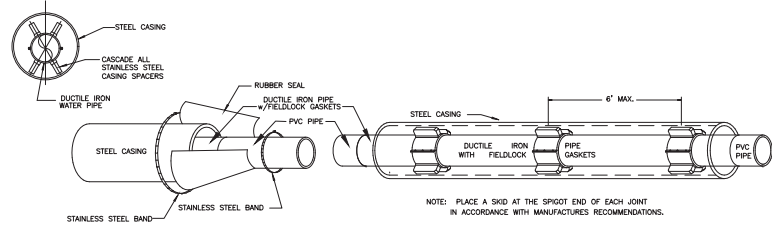
HDPE WATER SERVICE INSTALLATION NOTES:

1. ALL HDPE LONG SERVICE INSTALLATION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE F.D.O.T. UTILITY ACCOMMODATIONS MANUAL AND/OR THE LOCAL COUNTY PUBLIC WORKS DEPT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ALL CONSTRUCTION MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
4. ALL RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE F.D.O.T. DESIGN STANDARDS AND THE UTILITIES ACCOMMODATION MANUAL AND/OR THE LOCAL COUNTY PUBLIC WORKS DEPT.
5. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE A MINIMUM OF 19" ON CENTER.
6. ALL SERVICES REQUIRE 36" MINIMUM COVER. ALL LONG SERVICES REQUIRE 36" MIN. COVER UNDER ALL ROADS AND SHALES, AND MUST MAINTAIN MINIMUM SEPARATION BETWEEN OTHER UTILITIES.
7. 3/4" & 1" LONG SERVICES REQUIRE A 3" MINIMUM I.D. CASING PIPE. 1-1/2" & 2" LONG SERVICES REQUIRE A 4" MINIMUM I.D. CASING PIPE.
8. CURB STOPS SHALL BE THE SAME SIZE AS THE SERVICE TAPPING.
9. TRACE WIRE TO BE INSTALLED AS PER THIS DETAIL.

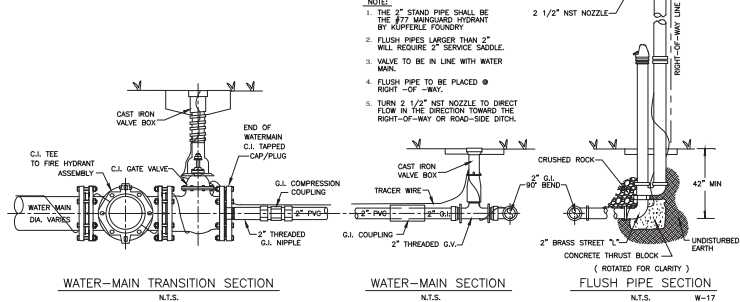
H.D.P.E. WATER SERVICE DETAIL
N.T.S. W-21



SINGLE WATER SERVICE CONNECTION
N.T.S. W-6



DETAIL OF SKIDS FOR DUCTILE IRON PIPE INSTALLED IN STEEL CASING
N.T.S. W-18



WATER-MAIN TRANSITION SECTION
N.T.S.

WATER-MAIN SECTION
N.T.S.

FLUSH PIPE SECTION
N.T.S. W-17

CONCRETE BLOCKING DIMENSIONS

X	A	B	C	D	CU. YD.
TEES - 8" RUN					
12"	14"	2'-6"	3'-9"	3'-0"	0.69
10"	12"	2'-5"	2'-10"	2'-10"	0.48
8"	10"	2'-4"	1'-0"	2'-8"	0.32
6"	8"	2'-3"	1'-3"	2'-6"	0.19
4"	6"	2'-0"	1'-0"	2'-0"	0.07
90° BENDS					
12"	12"	2'-6"	3'-0"	3'-0"	0.81
10"	10"	2'-6"	4'-0"	2'-10"	0.48
8"	8"	2'-4"	2'-8"	2'-8"	0.38
6"	6"	2'-3"	1'-8"	2'-6"	0.22
4"	4"	2'-2"	8"	2'-2"	0.09
45° BENDS					
12"	6"	2'-6"	2'-10"	3'-0"	0.47
10"	5"	2'-5"	2'-2"	2'-10"	0.32
8"	4"	2'-4"	1'-3"	2'-8"	0.21
6"	3"	2'-3"	9"	2'-6"	0.11
4"	2"	2'-0"	8"	2'-2"	0.01
22-1/2° BENDS					
12"	6"	2'-6"	1'-8"	3'-0"	0.27
10"	5"	2'-5"	1'-1"	2'-10"	0.19
8"	4"	2'-4"	9"	2'-8"	0.12
6"	3"	2'-3"	6"	2'-6"	0.07
4"	2"	2'-0"	4"	2'-2"	0.02
FLUJES					
12"	12"	2'-6"	13'-0"	3'-0"	0.66
10"	12"	2'-5"	2'-10"	2'-10"	0.48
8"	12"	2'-4"	1'-10"	2'-8"	0.33
6"	12"	2'-3"	1'-2"	2'-6"	0.22
4"	12"	2'-2"	1'-0"	2'-4"	0.11

REVISIONS

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: MHB
DRAWN BY: JMM
CHECKED BY: BRJ
APPROVED BY: BRJ

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
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UTILITY DETAILS
APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE IMPROVEMENTS

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

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BENJAMIN LENNON, P.E.
Florida Engineer #78674
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 09/23/2019
DRAWING: 18-A

NOTES

1. ALL WATER MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND TEC SPECIFICATIONS.
2. WATER MAIN SHALL BE LOCATED ON NORTH OR EAST ROAD CENTERLINE AT A DISTANCE TO INSURE MAIN IS A MINIMUM OF 6' FROM EDGE OF PAVEMENT OR IN ACCORDANCE WITH COUNTY AND STATE SPECIFICATIONS.
3. ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH COUNTY AND STATE SPECIFICATIONS.
4. ALL VALVES AND MATERIALS SHALL COMPLY WITH ANMA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS.
5. MATERIALS APPROVED FOR WATER MAIN CONSTRUCTION INCLUDES:
 - A. 100 CLASS 900 DR 18
 - B. 6" THRU 18" CAST IRON CLASS 22 (ANMA C-601), DUCTILE IRON, CLASS 50 (ANMA C-151).
6. ALL MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES.
7. SERVICE TAPS SHALL NOT BE LESS THAN 7/8" (OPENING CUT) IN SADDLE CLAMP.
8. WATER SERVICE TUBING SHALL BE HDPE DR-9 MEETING ASTM D3550, RATED AT 250 P.S.I. WATER SERVICE TUBING SHALL BE BLUE ICE TUBING AS MANUFACTURED BY CHRYMER PLASTICS, INC. OR APPROVED EQUAL.
9. FLOOD PIPE DISCHARGE SHALL BE OPPOSITE DIRECTION OF VALVE AND AND PIPE SHALL EXTEND 20" TO 30" ABOVE GROUND LEVEL.
10. MAINS SHALL HAVE A MINIMUM OF 36" COVER. IN OTHER BOTTOMS SERVICE LINES SHALL HAVE A MINIMUM OF 30" OF COVER.
11. ALL WATER MAINS AND SERVICE LINES SHALL HAVE 12 GAUGE, THIN INSULATED, SOLID COVER WIRE COILED AROUND ALL WATER MAINS AND SERVICE LINES. ALL WIRE SHALL BE JOINED BY A COMMON BOND USING "BUTT SPLICES". WHERE A SERVICE WIRE IS BOND BONDED TO A MAIN WIRE, THE BOND CONNECTION SHALL BE MADE WITH A "T" BUTT SPLICE. IN THE EVENT THE "T" BUTT SPLICE IS NOT AVAILABLE, THE BOND SHALL BE MADE BY TIGHTLY WRAPPING THE SERVICE LINE WIRE TO THE MAIN WIRE WITH A MINIMUM OF TEN WINDS. WIRE SPLICES SHALL BE WRAPPED WITH SCOTCH E-2 SEAL NO. 2200 ELECTRICAL INSULATING PAD WITH VINYL BACKING. THE SERVICE LINE WIRE SHALL EXTEND 12" INTO THE METER BOX.
12. "LOT BUILT PLANS" SHALL INDICATE LOCATIONS OF ALL SERVICES WITH RESPECT TO LOT CORNERS, LOCATIONS AND TYPES OF ALL FITTINGS, LOCATION OF ALL VALVES, AND DEAD END RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
13. ALL STUB-OUTS SHALL HAVE WATER EMB MARKERS INSTALLED 18" BELOW GROUND LEVEL.
14. ALL MAINS AND SERVICE LINES SHALL BE PRESSURE TESTED AND INSPECTED IN ACCORDANCE WITH ANMA C-601 UNDER SUPERVISION OF TEC INSPECTOR.
15. COMPACTING REQUIREMENTS; REFERENCE TEC'S, COUNTY, AND STATE SPECIFICATIONS.
16. ALL SERVICES SHALL BE INSTALLED IN THE APPROXIMATE CENTER OF EACH LOT.
17. ALL PIPE USE IN WATER DISTRIBUTION SYSTEMS SHALL BE N.S.F. APPROVED FOR POTABLE WATER USE.
18. THE TWO INCH STAND PIPE SHALL BE THE #77 MANGUARD HYDRANT BY KAPPELLE FOUNDRY. A SET OF PLANS WITH TALQUIN STAMP OF APPROVAL SHALL BE LOCATED ON JOB SITE DURING CONSTRUCTION.
19. ALL CONSTRUCTION STAKING SHALL BE DONE AT CONTRACTORS EXPENSE.
20. BEFORE ANY CONSTRUCTION BEGINS "SHOP DRAWINGS" SHALL BE APPROVED BY TEC.
21. CONSTRUCTION OF PIPE ALONG AN ARI SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S INSTALLATION GUIDELINES. THE PIPE SHALL BE CURVED UNIFORMLY THROUGHOUT ITS LENGTH AND NO JOINT DEFLECTION WILL BE ALLOWED. THE MAXIMUM PIPE RADIIUS BASED ON 1/4" BLUE BRUTE AND RING TIE PIPE SHALL BE AS FOLLOWS:

12"	= 300 FEET
10"	= 250 FEET
8"	= 150 FEET
6"	= 100 FEET
4"	= 75 FEET
2"	= 25 FEET
22. FOR FURTHER DETAILS SEE TEC SPECIFICATIONS.

NOTE: METER BOX SHALL BE TYPE 4418R/SPM - 1W/1S UNF/GREEN TALQUIN WATER METER FRAME TO GRAY MAIN AS MANUFACTURED BY CARSON INDUSTRIES, INC. THE BOX SHALL INCLUDE A METAL READER EYE AND BE PRESSURE RATED AT 3500 POUNDS. NO EXCEPTIONS.

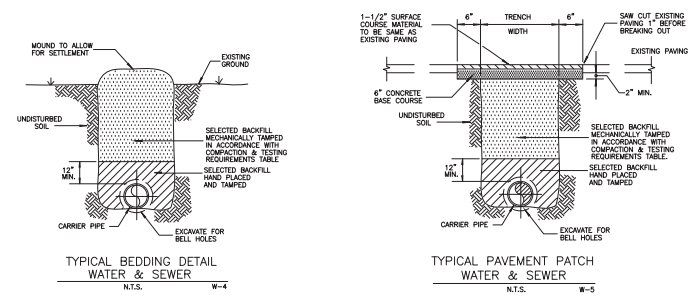
LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F. A. C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Water Force Main, Reclaimed Water (2)	Water Main 3 feet minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is minimum and 12 inches is preferred.	Alternate 3 Ft. minimum
Vacuum Sanitary Sewer	Water Main 10 feet preferred 3 feet minimum	Water Main 12 inches is preferred 6 inches minimum.	Alternate 3 Ft. minimum
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 feet preferred 6 feet minimum (3)	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is minimum and 12 inches is preferred.	Alternate 6 Ft. minimum
On-Site Sewage Treatment & Disposal System	10 feet minimum	----	----

(1) Water mains should cross above other pipes. When water main must be below other pipe, the minimum separation is 12 inches.
 (2) Recycled water regulated under Part 111 of Chapter 62-610, F.A.C.
 (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
 (4) Recycled water not regulated under Part 111 of Chapter 62-610, F.A.C.

NOTE: MINIMUM SEPARATION IN METERS MUST BE APPROVED BY TALQUIN.

SEPARATION DETAIL

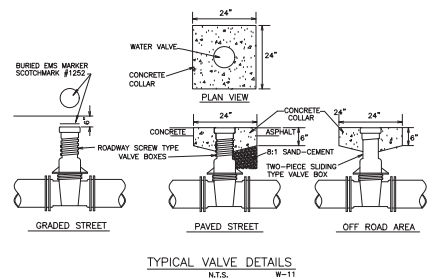


COMPACTION & TESTING REQUIREMENTS

- COMPACTION OF BACKFILL
- A. BACKFILL PLACED IN TRENCHES WHICH ARE UNDER THE PAVEMENT, OR WITHIN 4 FEET OF THE EDGE OF PAVING OR WITHIN 2 FEET OF THE BACK OF THE CURBWAYS OR WITHIN 2:1 SLOPE OF THESE LIMITS, SHALL EACH BE COMPACTED IN ACCORDANCE WITH THE FOLLOWING:
1. ROADWAY BASE AND SUB-BASE TO 98% AASHTO T-180 (MODIFIED PROCTOR)
 2. DEPTH BELOW SUBGRADE:
 - 0 - 3" 100% AASHTO T-99 STANDARD PROCTOR
 - 3" - 10" 98% AASHTO T-99 STANDARD PROCTOR
 - 10" + 95% AASHTO T-99 STANDARD PROCTOR
- B. THE ENTIRE DEPTH OF BACKFILL PLACED IN TRENCHES THAT ARE OUTSIDE THE AREAS DESCRIBED IN THE ABOVE SCHEDULE MAY BE COMPACTED TO A DENSITY WHICH MATCHES THAT OF UNDISTURBED MATERIALS LOCATED IN IMMEDIATELY ADJACENT AREAS.

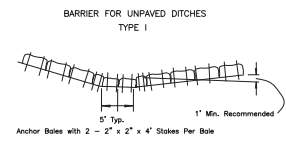
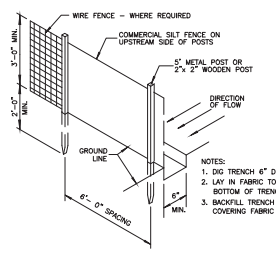
TESTING

TEST	STANDARD	FREQUENCY
A. PROCTOR LAB DENSITY	AASHTO T-99.1-180, ASTM D 698, ASTM D 1557	ONE PER MATERIAL TYPE
B. DENSITY (NSUT) ALONG PIPELINE	ASTM D2922, ASTM D1556	ONE PER EVERY 12-INCH DEPTH AND 400 LF OF PIPELINE OR BETWEEN STRUCTURES
C. DENSITY (NSUT) AT SERVICES	ASTM D2922, ASTM D1556	1 FOR EACH 12" DEPTH OF EACH SERVICE
D. DENSITY (NSUT) AROUND	ASTM D2922, ASTM D1556	1 FOR EACH 12" DEPTH OF STRUCTURE

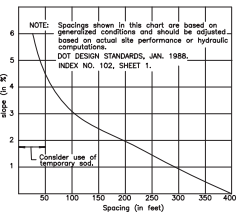


EROSION CONTROL

1. ALL SLOPES STEEPER THAN 4:1 SHALL BE SOODED.
2. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOO.
3. ALL DISTURBED AREAS NOT SOODED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK-GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS: FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 30 POUNDS PER ACRE OF WINTER EYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.
4. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE DURING CONSTRUCTION OF ALL SEDIMENTATION CONTROLS.
5. LONGITUDINAL DITCH/SWALE SLOPES STEEPER THAN 3/8 WILL BE INSPECTED IN THE FIELD BY NFWMD TO DETERMINE IF ADDITIONAL EROSION CONTROL IS NEEDED.
6. CONTRACTOR SHALL USE SILT SCREEN AND/OR HAY BALES TO PREVENT SILT AND ERODED SOILS FROM LEAVING SITE



Application and Spacing:
 The use of Type I bale barriers should be limited to the conditions outlined in Chart S Sheet 1 of S, Issue No. 102 DOT DESIGN STANDARDS, JAN. 1988.



RECOMMENDED SPACING FOR TYPE I HAY BALE BARRIERS.

HAY BALE PLACEMENT

REVISIONS

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: MHB
 DRAWN BY: JMM
 CHECKED BY: BRL
 APPROVED BY: BRL

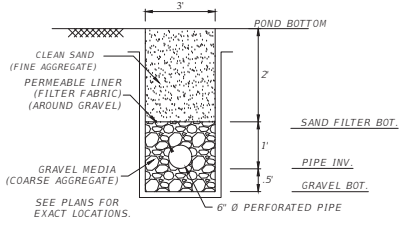
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MCCOY ROAD
 TALLAHASSEE, FL 32308
 TEL: (904) 609-1500
 FAX: (904) 609-1501

UTILITY DETAILS
 APALACHE REGIONAL PARK
 CROSS COUNTRY VENUE
 INFRASTRUCTURE IMPROVEMENTS

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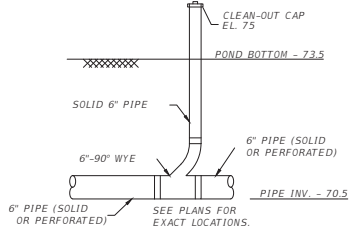
BENJAMIN LENNON, P.E.
 Florida Engineer #78674
 PROJECT NO.: 15-0513.004
 SCALE: AS SHOWN
 DATE: 09/23/2019
 DRAWING: 18-B



FILTER DRAIN TYPICAL SECTION

N.T.S.

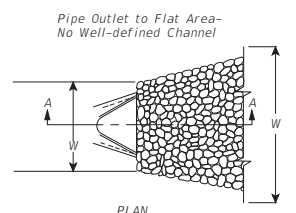
NOTE:
ALL FILTER FABRIC, SAND AND ANY IMPERMEABLE POLY LINER REQUIRED SHALL BE AS PER FDOT SPECIFICATIONS
FINE AGGREGATE SHALL BE QUARTZ SAND MEETING THE REQUIREMENTS OF SECTIONS 902-4 OF THE FDOT STANDARD SPECIFICATIONS
COARSE AGGREGATE SHALL BE GRAVEL OR STONE MEETING THE REQUIREMENTS OF SECTIONS 901-2 OR 901-3 OF THE FDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL MEET SECTION 901, GRADES 4, 467, 5, 56 OR 57 STONE.
SEE FDOT INDEX 286 FOR ADDITIONAL INFORMATION ON UNDERDRAIN NOTES AND REQUIREMENTS



CLEANOUT TYPICAL SECTION

N.T.S.

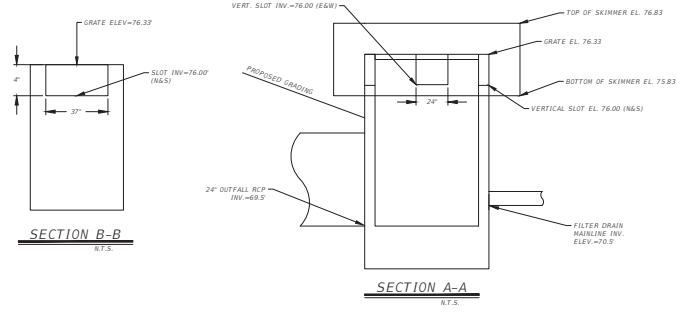
NOTE:
ONE (1) OF THE CLEANOUTS NEAREST THE SIDE BANK SHALL BE MARKED IN 3" INCREMENTS STARTING AT THE BOTTOM OF THE POND AT "0" AND SHALL CONTINUE TO THE TOP OF THE CLEANOUT CAP. EVERY FOOT SHALL BE LABELED 0, 1, 2, ETC. ALL MARKINGS SHALL BE COMPLETED IN EASILY IDENTIFIABLE, NON FADING AND READABLE MARKINGS.



RIP-RAP APRON

N.T.S.

NOTES:
THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS.
1. EOS IS NOT LARGER THAN U.S. 40 (MAX)
2. TENSILE STRENGTH = 200LB
3. BURSTING STRENGTH = 500LB
4. PUNCTURE RESISTANCE = 100LB
5. GRAB ELONGATION = 65LB
CONFORM TO ASTM D-1682 OR ASTM D-177
SEE PLAN SHEETS FOR ACTUAL DIMENSIONS FOR RIP RAP APRONS

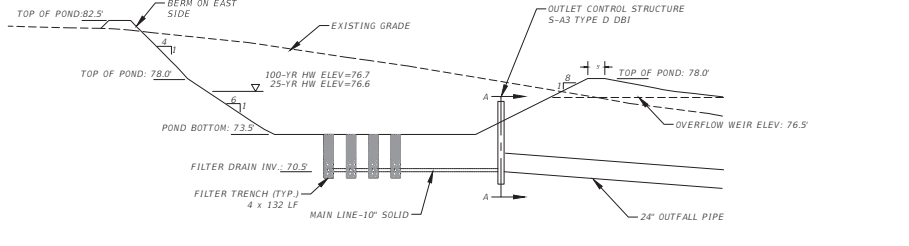


SECTION B-B

N.T.S.

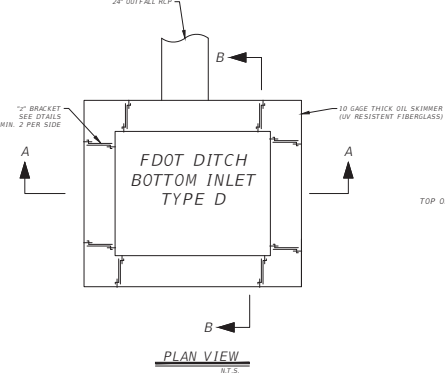
SECTION A-A

N.T.S.



POND TYPICAL SECTION

N.T.S.



PLAN VIEW

N.T.S.

FRONT VIEW

N.T.S.

SIDE VIEW

N.T.S.

SECTION C-C

N.T.S.

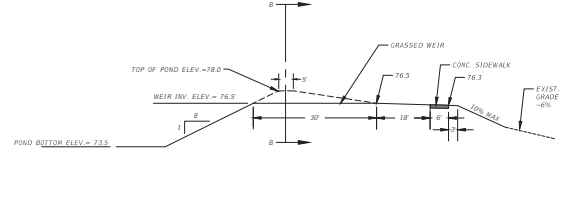
NOTES:
SEE FDOT INDEX 340 FOR ADDITIONAL INFORMATION INCLUDING, BUT NOT LIMITED TO: BOLT AND ANCHOR, SIZE AND TYPE AND HOLE DIMENSIONS.
ALL SKIMMERS PER THESE DETAILS AND FDOT S1 240

OUTLET CONTROL STRUCTURE (S-A3) DETAIL

N.T.S.

'Z' BRACKET DETAILS (SKIMMER)

N.T.S.



OVERFLOW WEIR PROFILE SECTION

N.T.S.

OVERFLOW WEIR CROSS SECTION B-B

N.T.S.

NO.	DATE	DESCRIPTION
DESIGNED BY	JMM	
DRAWN BY		
CHECKED BY	BRL	
APPROVED BY	BRL	

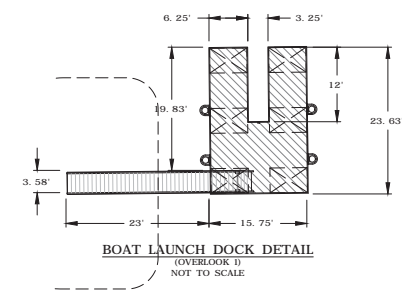
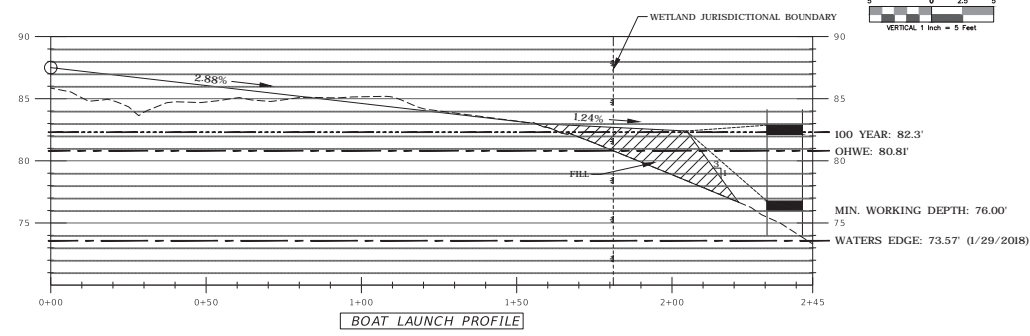
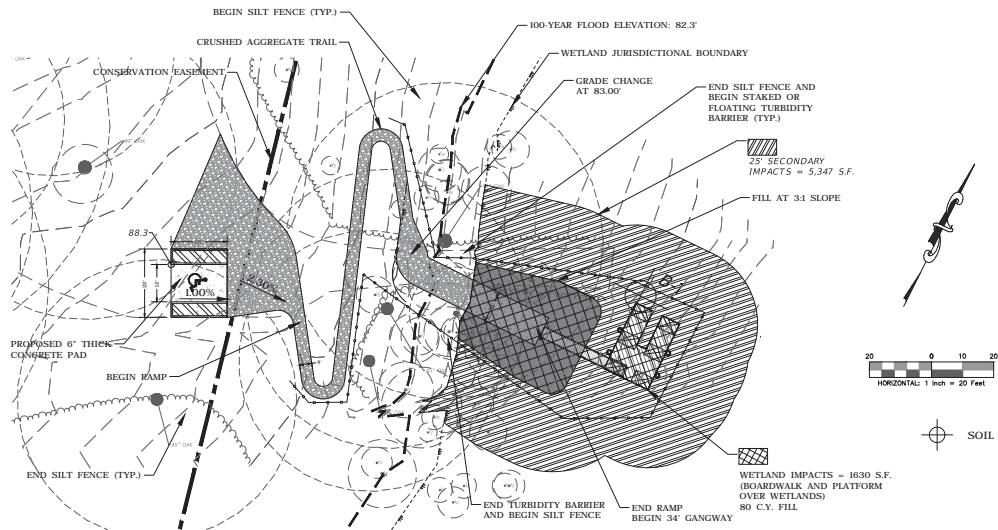
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MCCOSHKEE ROAD
TALLAHASSEE, FL 32308
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FAX (904) 608-1501

POND DETAILS
APALACHEE REGIONAL PARK
CROSS COUNTRY VENUE
INFRASTRUCTURE IMPROVEMENTS

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2882 Remington Green Circle
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BENJAMIN LENNON, P.E.
Florida Engineer #78074
PROJECT NO. 15-0513.004
SCALE: AS SHOWN
DATE: 09/17/2019
DRAWING: 19



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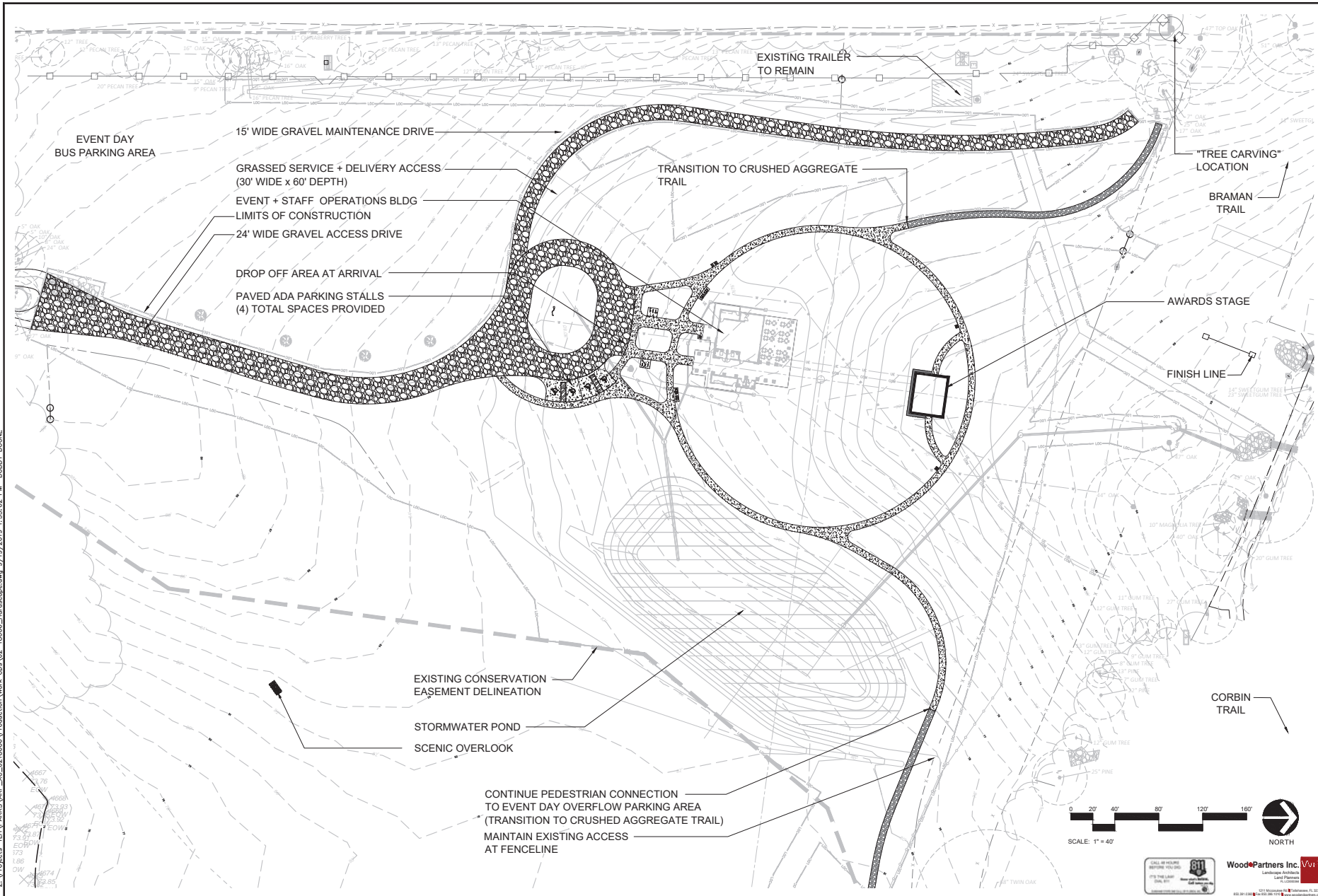
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NO.			

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SCENIC OVERLOOK NO. 1 AND BOAT LAUNCH RAMP AND PROFILE APALACHEE REGIONAL PARK CROSS COUNTRY VENUE IMPROVEMENTS	
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BENJAMIN LENNON, P.E. Florida Engineer #78674
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 9/23/19
DRAWING: 21



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 CHECKED BY: BRL
 APPROVED BY: BRL

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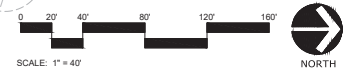
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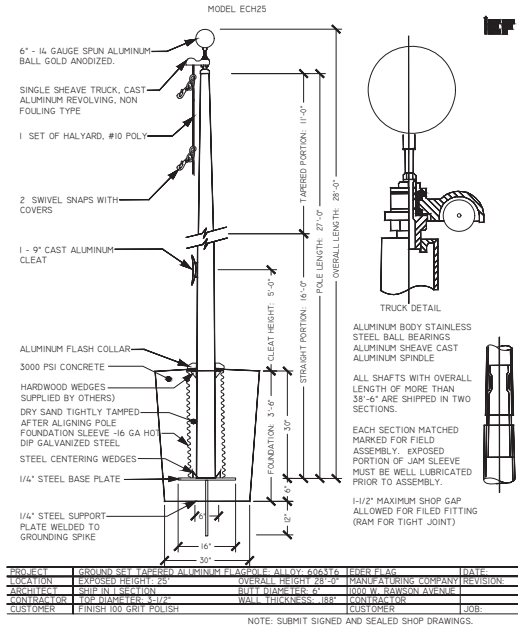
MARK L. BAKER, P.E., A.S.T.E.
 LICENSED PROFESSIONAL ENGINEER

PROJECT NO.: 15-0513.004
 SCALE: AS SHOWN
 DATE: 9/19/2019
 DRAWING: HSD1

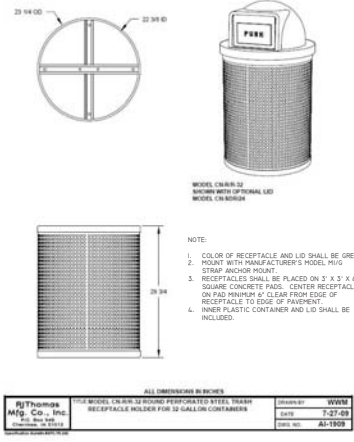


WoodPartners Inc.
 Landscape Architects
 4000 Woodbridge Dr. SE
 Tallahassee, FL 32309
 Phone: 904.562.8000 WWW.WOODPARTNERS.COM

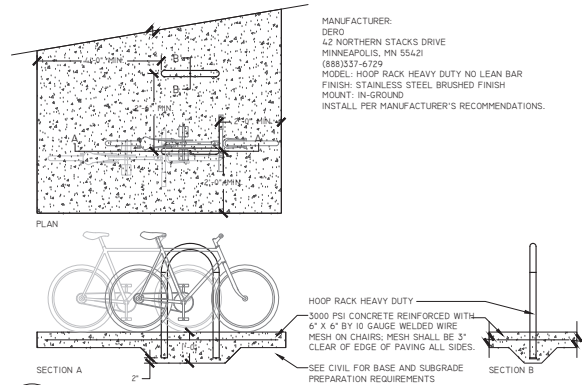
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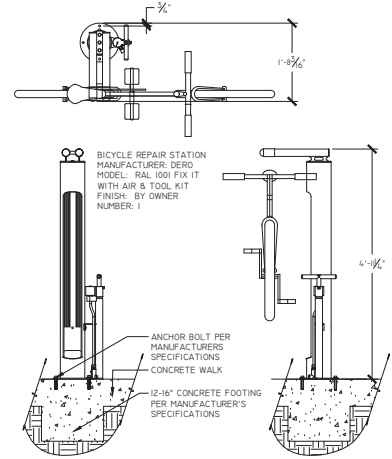
1 25' FLAG POLE
3/4" = 1'-0"



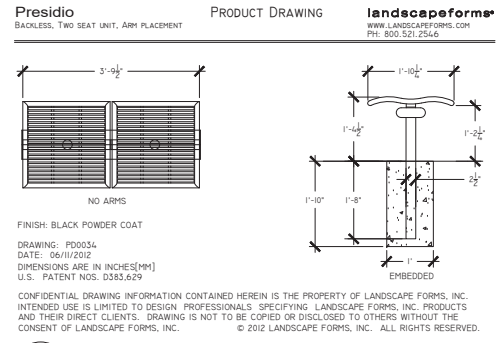
2 LITTER RECEPTACLE, TYP.
HS03



3 BIKE RACK
1/2" = 1'-0"



4 DERO FIXIT BIKE REPAIR STATION
3/4" = 1'-0"



5 BACKLESS BENCH
3/4" = 1'-0"

FURNISHING SCHEDULE:

SYMBOL	PREFABRICATED METAL STRUCTURES DESCRIPTION	QTY	DETAIL
	FLAG POLE; MODEL ECH25 CLEAR FINISH ALUMINUM FLAGPOLE WITH STANDARD ACCESSORIES.	1	1/HS03
SYMBOL	SITE FURNISHINGS DESCRIPTION	QTY	DETAIL
	DERO; FIXIT-BICYCLE REPAIR STATION; COLOR: BY OWNER; HTTPS://WWW.DERO.COM/PRODUCT/FIXIT/	1	4/HS03
	LITTER RECEPTACLE; PILOT ROCK MODEL CN-R/R-32; 32 GALLON RECEPTACLE WITH LINER; MODEL M/G STRAP ANCHOR MOUNT; MODEL CN-SDR-24 PLASTIC DOME LID; COLOR: GREEN.	4	2/HS03
	BIKE RACK; DERO HEAVY DUTY HOOP; FINISH: STAINLESS STEEL.	6	3/HS03
	LANDSCAPE FORMS PRES-S-2-E PRESIDIO, BACKLESS SEATS, 2 SEAT UNITS, STRAIGHT, EMBEDDED	6	5/HS03

PROJECT:	AROUND THE PARK ALUMINUM FLAGPOLE - ALLOY 6063-T6	TRIM: F1 AG	DATE:
LOCATION:	EXPANDED HEIGHT 25'	OVERALL HEIGHT 28'-0"	MANUFACTURING COMPANY REVISION:
ARCHITECT:	DRP IN A SUSTAINABLE	BILL NUMBER: 6	1000 W. SANDS AVENUE
CONTRACTOR:	TOP HARDSHIP 1-1/2"	WALL THICKNESS: 18"	WORKSHOP
CUSTOMER:	FINISH 100 GRIT POLISH	LOAD CAPACITY:	LSR

NOTE: SUBMIT SIGNED AND SEALED SHOP DRAWINGS.

DESIGNED BY	MHB	DESIGNED BY	BY
DRAWN BY	JMM	DATE	DESCRIPTION
CHECKED BY	BRL	NO.	
APPROVED BY	BRL		

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2280 MCCOSKEY ROAD
TALLAHASSEE, FL 32308
TALHAWHITE@LEONCO.GOV
FAX (850) 909-1500

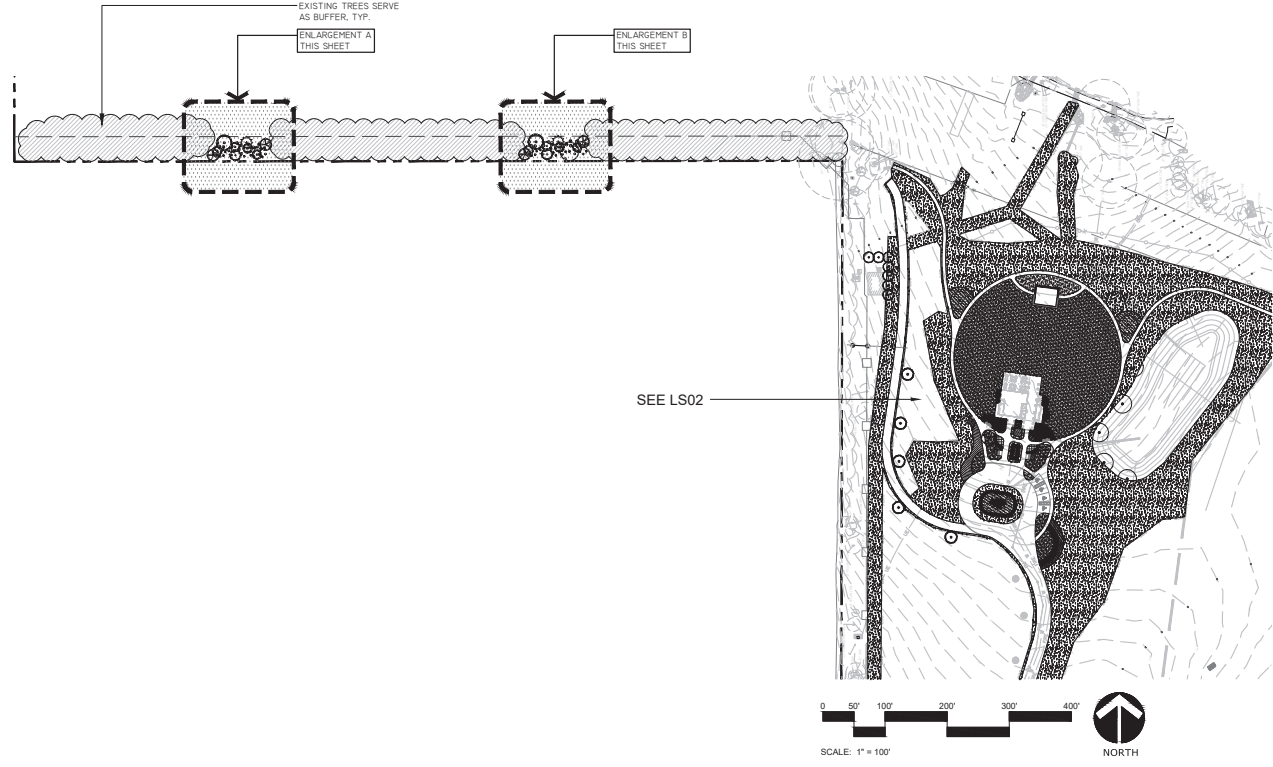
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CROSS COUNTRY VENUE
INFRASTRUCTURE
IMPROVEMENTS

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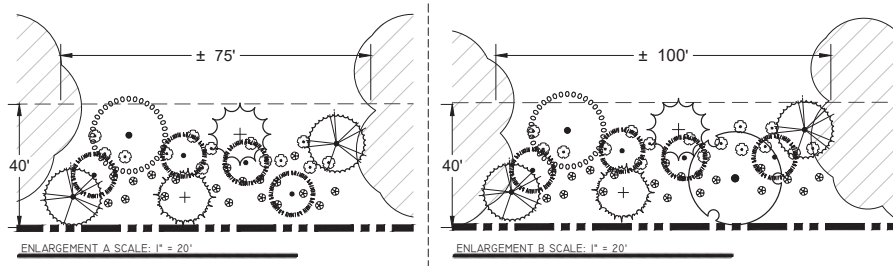
SCALE: AS SHOWN
DATE: 9/19/2019
DRAWING: HS03





BUFFER PLANTING SCHEDULE:

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	
	ILAT	4	ILEX OPACA / AMERICAN HOLLY MIN. FL#1 PER FL. G&S	FG B&B	2" CAL.	1
	JUS1	2	JUNIPERUS SILICICOLA / SOUTHERN RED CEDAR	FG B&B	2" CAL.	1
	MAGR	2	MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	1
	QUV2	1	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	1
CANOPY TREES						
CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL		
ILAT2	2	ILEX AATTENATA 'EAST PALATKA' / EAST PALATKA HOLLY FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	1	1
PIPA	8	PNIS PALUSTRIS / LONGLEAF PINE FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	1	1
SHRUBS						
CODE	QTY	BOTANICAL / COMMON NAME	CONT	HIT		
RHIN-F	38	RHOODENDRON INDICA 'FORMOSA' / FORMOSA AZALEA	3 GAL.	24"-30"		
RHLS	29	RHOODENDRON INDICUM 'MRS. G.G. GERBING' / MRS. G.G. GERBING AZALEA	3 GAL.	2'-3"		



NOTE:

- PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION FOR THE IDENTIFIED BUFFER AREAS, CONTRACTOR WILL SCHEDULE A SITE MEETING WITH THE OWNER AND OWNERS REPRESENTATIVES TO FIELD VERIFY THE LOCATION OF THE PROPOSED BUFFER PLANTS.

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<p>LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MCCOSKIE ROAD TALLAHASSEE, FL 32308 PHONE (904) 691-1500 FAX (904) 698-1501</p>		<p>DESIGNED BY: MHB DRAWN BY: JMA CHECKED BY: BRJ APPROVED BY: BRJ</p>	<p>NO. DATE DESCRIPTION BY</p>
<p>APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS</p>		<p>DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE</p>	
<p>DRMP ENGINEERS • SURVEYORS • PLANNERS • DESIGNERS Certificate of Authorization No. 2548 2000 Park Lane, Tallahassee, Florida 32309 Phone: 904.662.9800 WWW.DRMP.COM</p>		<p>PROJECT NO.: 15-0513.004 SCALE: AS SHOWN DATE: 9/19/2019 DRAWING: LS01</p>	

WoodPartners Inc.
 Landscape Architects
 6000 Woodbridge Dr., Tallahassee, FL 32309
 904.202.2488 • Fax 904.202.7177 • www.woodpartners.com

PLANTING DETAIL NOTES:

1. THE CONTRACTOR SHALL FERTILIZE ALL PLANT MATERIAL. FERTILIZATION WILL BE AS RECOMMENDED BY SOIL TESTS.
2. THE CONTRACTOR SHALL APPLY A MYCORRHIZAL INOCULANT AND 100% ORGANIC STARTER FERTILIZER TO EACH NEW TREE PLANTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. THE CONTRACTOR SHALL APPLY ORGANIC HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ALL PLANTING BEDS.
4. CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ALL THE SOIL TOGETHER FIRMLY, BUT NOT LONG ENOUGH TO HAVE BECOME POT BOUND.
5. FOR DISTURBED AREAS OF EXISTING SOD, CONTRACTOR TO INSTALL SOD OF THE SAME SPECIES. THE CONTRACTOR SHALL LAY SOD SOLIDLY IN ALL INDICATED OR DISTURBED AREAS WITH JOINTS IN CONTACT WITH EACH OTHER. PIN ALL SODDED SLOPES GREATER THAN 3:1 WITH STEEL U PINS/SOD STAPLES.
6. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS OR REVISIONS WITHOUT THE OWNER'S REPRESENTATIVE APPROVAL.
8. THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, LITTER REMOVAL, REMOVAL OF UNDESIRABLE VEGETATION, MAINTENANCE AND EDGING OF BEDLINES, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL KEEP ALL AREAS OF WORK CLEAN, NEAT AND ORDERLY. ALL PAVED SURFACES ARE TO BE CLEANED OF SOIL AND DEBRIS AT THE CLOSE OF THE WORK DAY.
10. EACH TREE SHALL BE PRUNED AS NEEDED TO REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN/DAMAGED BRANCHES. ALL PRUNING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL PRESERVE THE NATURAL HABIT AND CHARACTER OF THE PLANT.
11. IRRIGATION SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS AND BACKFLOW CONTROLLER, AND TO PROVIDE 100% COVERAGE FOR ALL LANDSCAPE AREAS.
12. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANTED AREAS IN ADDITION TO IRRIGATED AREAS FOR PLANT ESTABLISHMENT THROUGH WARRANTY PERIOD.
13. THE CONTRACTOR SHALL APPLY SEED FREE/WEED FREE MULCH TO PLANTED AREAS AT A MINIMUM 3" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH, I.E. WOOD FIBER. MULCH SHALL BE APPLIED IMMEDIATELY AFTER COMPLETION OF PLANTING OPERATIONS. LIMITS OF MULCHING SHALL BE AS SHOWN ON PLAN OR FOR INDIVIDUAL PLANTS, THE AREA OF THE PLANTING PIT, SEE PLANTING DETAILS.
14. CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.
15. PLANTS WITH BROKEN ROOT BALLS, BOUND ROOTS OR SUBSTANTIAL DAMAGE TO ANY PART SHALL BE REPLACED PRIOR TO PLANTING.
16. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED ON THE PLANS. ALL TREES SHALL BE FLORIDA #1 OR BETTER AT TIME OF INSTALL. PROVIDE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS (I.E. APPROVED MULCH, FERTILIZER, ETC.), LABOR, ETC. REPORT PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING.
17. CONTRACTOR SHALL STAKE TREES FOR APPROVAL PRIOR TO INSTALLATION. ANY CONFLICTS OR DISCREPANCIES SHALL BE FIELD ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
18. NO TREE PLANTING SHALL OCCUR WITHIN APPLICABLE SIGHT DISTANCE TRIANGLE AREAS AS SPECIFIED BY DESIGN STANDARD INDEX 54.6 AS PUBLISHED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION, CURRENT EDITION AT THE TIME OF INSTALLATION. CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREE PLANTINGS IN THE RIGHT-OF-WAY IN THE FIELD PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE. OWNER SHALL AGREE TO MAINTAIN THE STRUCTURE OF TREE PLANTINGS IN THE RIGHT-OF-WAY TO ELIMINATE SIGHT DISTANCE CONFLICTS.
19. CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREE PLANTINGS THROUGHOUT THE PROJECT CORRIDOR IN THE FIELD PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ANTICIPATE THAT SOME RE-ARRANGEMENT OF MATERIAL WILL OCCUR.
20. PROVIDE THE OWNER AND OWNER'S REPRESENTATIVE WITH SEVEN CALENDAR DAYS ADVANCE NOTICE OF COMPLETING INSTALLATION OF ALL PLANTS AND INCIDENTAL LANDSCAPING. THE ESTABLISHMENT PERIOD WILL BEGIN UPON ACCEPTANCE OF THE COMPLETE INSTALLATION OF ALL PLANTS BY THE OWNER. NOT LESS THAN FORTY-FIVE DAYS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION, SUBMIT A MAINTENANCE PLAN TO THE OWNER AND OWNER'S REPRESENTATIVE. THE MAINTENANCE PLAN IS SUBJECT TO REVIEW AND COMMENT BY THE OWNER AND OWNER'S REPRESENTATIVE. INSTALLATION WILL NOT BE CONSIDERED COMPLETE UNTIL THE MAINTENANCE PLAN HAS WRITTEN APPROVAL FROM THE OWNER. THE MAINTENANCE PLAN SHALL SPECIFICALLY DESCRIBE THE METHODS, ACTIVITIES, MATERIALS AND SCHEDULE TO ACHIEVE THE FOLLOWING AT ALL TIMES THROUGHOUT THE ESTABLISHMENT PERIOD:
 - A. KEEP ALL PLANTS INSTALLED AS SPECIFIED IN THESE PLANS.
 - B. KEEP ALL PLANTS UNDAMAGED, INCLUDING FREE OF PESTS AND DISEASE, PROPERLY HYDRATED AND NOURISHED, TO SUPPORT TO GROWTH AND MAINTAIN FORM AND HABIT SPECIFIED IN THESE PLANS.
 - C. KEEP ALL PLANTS PRUNED TO MAINTAIN PLANT HEALTH, CLEAR VISIBILITY OF SIGNS, TRAFFIC SIGNALS, SAFE SIGHT DISTANCE AT INTERSECTIONS AND DRIVEWAYS, SAFE AND OPERATIONAL HORIZONTAL AND VERTICAL CLEARANCE FROM ROADWAYS, SIDEWALKS, UTILITIES, LIGHT POLES, MECHANICALS EQUIPMENT, FENCES, WALLS AND DRAINAGE STRUCTURES, AND UNOBSTRUCTED ACCESS FOR ALL AUTHORIZED USERS.
 - D. KEEP THE INDIVIDUAL PLANT LOCATIONS AND PLANT BEDS FREE OF LITTER AND UNDESIRABLE VEGETATION.
 - E. KEEP LANDSCAPE BEDS EDGING CORRECTLY LOCATED AND TRIMMED, AND THE MULCH GROOMED AND REPLENISHED AS SPECIFIED IN THESE PLANS.
 - F. OPERATE AND MAINTAIN ALL COMPONENTS OF ANY IRRIGATION SYSTEM AS SPECIFIED IN THE PLANS WHEN INSTALLED AS PART OF THE CONTRACT.
 - G. CONTINUE MOWING AND LITTER PICK UP OF THE TURF AREAS.
21. ALL PLANT MATERIAL SHALL BE WARRANTIED FOR A ONE YEAR PERIOD AFTER FINAL ACCEPTANCE BY THE CONTRACTOR TO BE IN FLOURISHING CONDITION OF ACTIVE GROWTH AS INDICATED IN SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE PROJECT DURING THE WARRANTY PERIOD AND INFORM THE OWNER IF PROBLEMS DEVELOP WITH THE PLANT MATERIAL. THE CONTRACTOR SHALL REMOVE DEAD AND UNHEALTHY PLANTS IMMEDIATELY AND REPLACE AT THE CONTRACTOR'S EXPENSE. WITHIN THE ONE YEAR, THERE SHALL BE EVALUATION OF MAINTENANCE BY OWNER'S REPRESENTATIVE AND, IF NEEDED, CORRECTIVE ACTION TAKEN BY CONTRACTOR. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO END THE MAINTENANCE SERVICES AT ANY POINT FOR ANY REASON.
22. PLANTS SHALL BE DEEMED DEAD IF THE TERMINAL LEADER DIES OR THE PLANT HAS LESS THAN 90% VIABLE LEAF SURFACE AREA.
23. WHEN CONFLICTS EXIST BETWEEN THE SPECIFICATIONS AND THESE PLANS, THE SPECIFICATIONS SHALL PREVAIL.

PLANTING SCHEDULE:

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT	
	ILAT	4	ILEX OPACA / AMERICAN HOLLY Min. FL#1 PER FL. G85	FG	BB8	2" CAL. 9'-12"	
	JUS1	2	JUNIPERUS SILICICOLA / SOUTHERN RED CEDAR	FG	BB8	2" CAL. 9'-12"	
	MAGR	2	MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA FL#1 Min.; SINGLE LEADER	FG	BB8	2" CAL. 9'-12"	
	MAPR	5	MALUS x 'PROFUSION' / PROFUSION CRAB APPLE	FG	BB8	2 1/2" CAL. 10' - 12'	
	MYCE	7	MYRICA CERIFERA / WAX MYRTLE	45	GAL.	2" CAL. 12' - 14'	
	QUVI2	1	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL#1 Min.; SINGLE LEADER	FG	BB8	2" CAL. 9'-12"	
	QUVI	14	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL#1 Min.; SINGLE LEADER	FG	BB8	4" CAL. 16' - 18'	
	SAPA	12	SABAL PALMETTO / CABBAGE PALM 12" CLEAR TRUNK; ROOT REGENERATIVE; FL#1 MN.	FG	BB8	12" C.T.	
	ULPA	2	ULMUS PARVIFOLIA 'DRAKE' / DRAKE ELM FL#1 Min.; SINGLE LEADER	FG	BB8	3" CAL. 8'-10'	
CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT	
	ILAT2	2	ILEX x ATTENUATA 'EAST PALATKA' / EAST PALATKA HOLLY FL#1 Min.; SINGLE LEADER	FG	BB8	2" CAL. 8' - 10'	
	PIPA	8	PINUS PALUSTRIS / LONGLEAF PINE FL#1 Min.; SINGLE LEADER	FG	BB8	2" CAL. 12' - 14'	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT	SPR	
	ILVO	49	ILEX VOHITORA 'NANA' / DWARF YAUPON HOLLY MAX MAINTAINED HEIGHT: 42-48"	3	GAL.	2'-3'	2'-3'
	POMA	24	PODOCARPUS MACROPHYLLUS 'DWARF PRINGLES' / DWARF PODOCARPUS	7	GAL.	14"-16"	12" - 15"
	RHIN	78	RHAPHIOLEpis INDICA / INDIAN HAWTHORN	3	GAL.	2'-3'	3-4'
	RHIN-F	38	RHOODENDRON INDICA 'FORSOSA' / FORSOSA AZALEA	3	GAL.	24'-30"	24'-30"
	RHLS	29	RHOODENDRON INDICUM 'Mrs. G.G. GERBING' / Mrs. G.G. GERBING AZALEA	3	GAL.	2'-3'	2'-3'
	SECI	23	SERENOA REPENS 'CINEREA' / SILVER SAW PALMETTO	3	GAL.	2'-3'	2'-3'
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT	SPR	
	LACA	290	LANTANA CANARIA 'NEW GOLD' / NEW GOLD LANTANA	1	GAL.	10' - 12"	10' - 12"
	MUCA	193	MUHLENBERGIA CAPILLARIS / PINK MUHLY	3	GAL.	14" - 16"	12" - 15"
	SPA BAK	472	SPARTINA BAKERI / SAND CORD GRASS	3	GAL.	12" - 18"	10" - 12"
	TRFL	199	TRIPSACUM FLORIDANUM / DWARF FAKAHATCHEE GRASS	3	GAL.	10' - 12"	6' - 8'
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT	SPR	
	SOD-2	166,039 SF	CYNODON DACTYLON 'A19 HYBRID' / BERMUDA GRASS	Turf			
	DITA	74	DIANELLA TASHMANICA 'VARIEGATA' / VARIEGATED FLAX LILY	1	GAL.	6" - 10"	10'-12"
	DIVE	264	DIETES VEGETA / AFRICAN IRIS	3	GAL.	10"-12"	10' - 12'
	IRVI	44	IRIS VIRGINICA / BLUE FLAG IRIS When in water, no more than 1' depth	1	GAL.	6" - 10"	6" - 10"
	TUVI	58	TULAGHIA VIOLACEA / SOCIETY GARLIC	1	GAL.	6"-12"	6"-12"
	SOD-1	50,598 SF	ZOYSIA JAPONICA 'EMPIRE' / EMPIRE ZOYSIA	Turf			

REVISIONS	NO.	DATE	DESCRIPTION	BY			
DESIGNED BY	MHB	DOWN BY	JMM	CHECKED BY	BRL	APPROVED BY	BRL
LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MCCOSHKEE ROAD TALLAHASSEE, FL 32308 TALK TO US AT 904-691-1500 FAX (904) 691-1501							
APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS							
DRMP ENGINEERS • ARCHITECTS • PLANNERS • DESIGNERS Certificate of Authorization No. 2548 2000 Park Lane, Suite 200 Tallahassee, Florida 32304 Phone: 904.682.8000 WWW.DRMP.COM							
MARK BAKER, P.E., A.S.T.A. LANDSCAPE ARCHITECT LICENSE NO. 12487 STATE OF FLORIDA							
PLANNING NOTES AND SCHEDULE PROJECT NO.: 15-0513.004 SCALE: AS SHOWN DATE: 9/19/2019 DRAWING: L503							

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**LEON COUNTY PUBLIC WORKS
STANDARD OPERATION & MAINTENANCE PLANS
FOR
STORMWATER MANAGEMENT FACILITIES**

OPERATION AND MAINTENANCE PLAN FOR FILTER PONDS

Filter ponds are retention or detention ponds which have filter facilities that require special maintenance. Leon County's Mosquito Control Division will maintain County-owned and County-maintained filter ponds according to the following plans.

1. Mowing and large debris removal will be conducted semi-annually. Grass clippings will NOT be removed.
2. Slopes will be inspected for erosion and repaired annually.
3. Structures and pond bottom will be inspected and repaired annually.
4. Sediment will be removed from the pond as needed.
5. The sand filter will be inspected annually.
6. The top six inches of the filter will be cleared as needed.
7. The filter will be replaced as needed.
8. Complaints will be investigated as needed and necessary corrective action scheduled.

OPERATION AND MAINTENANCE PLAN FOR RETENTION PONDS

The purpose of retention ponds is the prevention of direct discharge of stormwater runoff into the surrounding receiving waters. Examples are systems that discharge through percolation, exfiltration, and evaporation processes and that usually have residence time of less than three days. To maintain an operational stormwater retention system, Leon County's Mosquito Control Division will maintain County-owned and County-maintained retention ponds according to the following plan:

1. Mowing and removal of large debris will be conducted semi-annually. Grass clippings will NOT be removed.
2. Slopes will be inspected annually and repaired as needed.
3. Structures will be inspected annually and repaired as needed.
4. Sediment will be removed from the pond as needed following annual inspection.
5. Maintenance of the pond bottom to improve percolation will be done as needed following annual inspection.
6. Complaints will be investigated as needed and necessary corrective action scheduled.

OPERATION AND MAINTENANCE PLAN FOR WET DETENTION FACILITIES

The purpose of detention ponds is the prevention of direct discharge of stormwater runoff to the surrounding receiving waters. The water quality treatment system uses a design water pool in association with water-tolerant vegetation to remove pollutants through settling, absorption of soils, and nutrient uptake by vegetation. To maintain an operational stormwater detention system, Leon County's Mosquito Control Division will maintain County-owned and County-maintained wet detention ponds according to the following plan:

1. Mowing, removal of undesirable plants from the littoral zone, and removal of large debris will be conducted semi-annually. Grass clippings will NOT be removed.
2. Slopes will be inspected annually and repaired as needed.
3. Structures will be inspected annually and repaired as needed.
4. Sediment will be removed from the pond as needed following annual inspection.
5. Complaints will be investigated as needed and necessary corrective action scheduled.

OPERATION AND MAINTENANCE PLAN FOR SWALE DITCHES WITH SWALE BLOCKS

The purpose of swale ditches with swale blocks is to prevent roadside ditch erosion from sedimenting the surrounding receiving waters due to stormwater runoff. In addition, the roadside swales are grassed to provide water quality treatment. To maintain an operational roadside stormwater system, Leon County's County's Operations Division will maintain swale ditches with swale blocks along County roads and County-maintained roads according to the following plan:

1. Mowing and removal of large debris will be conducted semi-annually. Grass clippings will NOT be removed.
2. Erosion of slopes will be inspected annually and repaired as needed.
3. Sediment buildup resulting from swale blocks will be removed as needed following annual inspections of swale block integrity.
4. Swales with undermined swale blocks will be reshaped and the swale blocks reconstructed as needed following annual inspections.
5. Complaints will be investigated as needed and necessary corrective action scheduled.

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