

# APALACHEE REGIONAL PARK

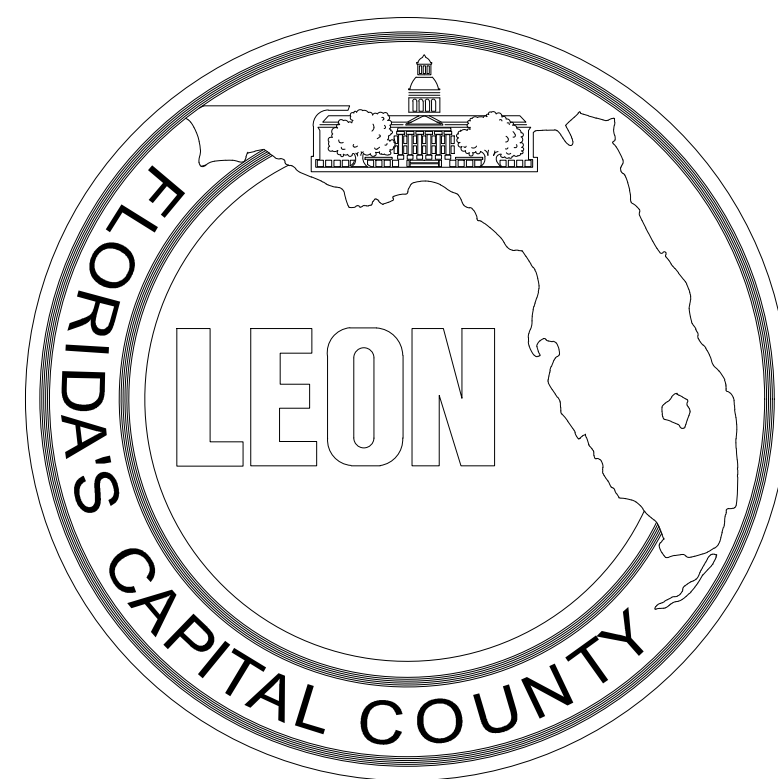
## Cross Country Venue Infrastructure Improvements

### LEON COUNTY, FLORIDA

# CONSTRUCTION PLANS

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**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

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

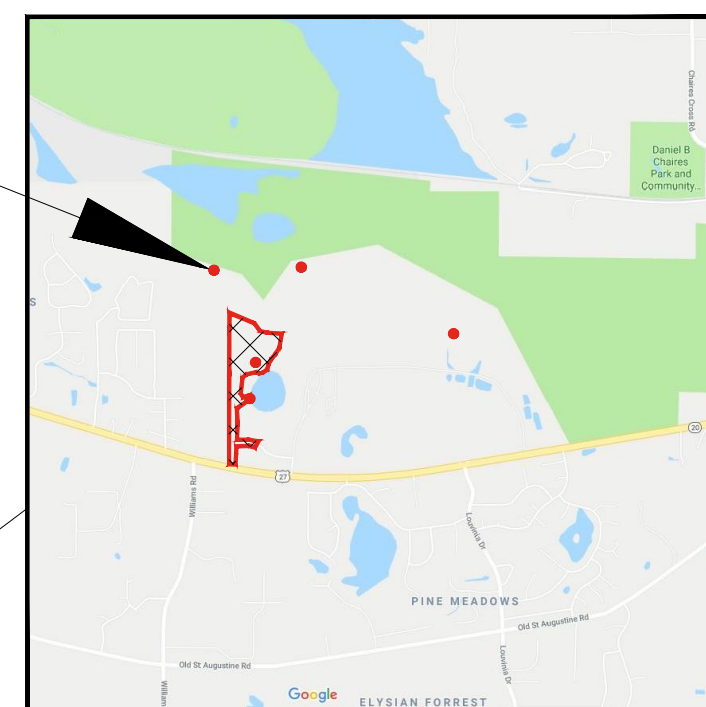
OVERLOOK  
LOCATIONS

PROJECT  
LOCATION

VINCENT S. LONG  
COUNTY ADMINISTRATOR

HERBERT W. A. THIELE  
COUNTY ATTORNEY

BRENT PELL  
PUBLIC WORKS DIRECTOR



PARCEL  
BOUNDARY

PROJECT  
LOCATION

**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.

ISSUED:  
10/8/19

OCTOBER 8, 2019

NOTE: ALL CONSTRUCTION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION FY 2018-19 EDITION, DESIGN STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE SHOWN OR NOTED IN THESE PLANS



Certificate of Authorization 2648  
DRMP JOB NUMBER 15-0513.004

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DRMP, INC.  
2882 Remington Green Circle  
Tallahassee, FL 32308  
Phone: (850) 562-9600 Fax: (850) 575-5544  
CERTIFICATE OF AUTHORIZATION No. 2648  
BENJAMIN R. LENNON, P.E.  
LICENSE NO. 78674

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-22.004, F.A.C.

SHEETS 1 THROUGH 24

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**GENERAL NOTES**

1. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH LEON COUNTY STANDARD SPECIFICATIONS AND PER ALL STATE AND FEDERAL ADA REGULATIONS.
2. 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.
3. 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.
4. THE PROJECT DESIGN HAS BEEN BASED UPON FIELD SURVEY AND SITE VISITS CONDUCTED BY DRMP.
5. 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 OWNER'S AGENT.
6. 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.
7. 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.
8. 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, POLES, 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.
9. 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.
10. PRIOR TO PERFORMING ANY WORK WITHIN 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. POST ALL APPLICABLE PERMITS AS REQUIRED.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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 2.69 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.
18. 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:
  - A. ALL INDIVIDUALS INCLUDING CONTRACTORS EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, INSPECTORS AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER A CONTRACT WITH THE CONTRACTOR.
  - B. 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
  - C. OTHER PROPERTY 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)**

- D. ALL 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, EMPLOYEES OR OTHER PERSONS PERFORMING WORK UNDER A CONTRACT WITH THE CONTRACTOR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR DAMAGE OR PROPERTY LOSS ATTRIBUTED SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER OR THE DESIGN ENGINEER, OR ANY SUBCONTRACTORS OR THEIR AGENTS, EMPLOYEES OR OTHER PERSONS PERFORMING WORK FOR THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
19. 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 WHOSE 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.
20. 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.
21. 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.
22. 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.
23. 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, ATTORNEY'S 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.
24. 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.
25. "HAZARDOUS MATERIALS" MEANS ANY SUBSTANCE WHICH:
  - A. THE PRESENCE OF REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, OR
  - B. IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE", "HAZARDOUS SUBSTANCE", POLLUTANT OR CONTAMINATE UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS OR AMENDMENTS, INCLUDING BUT NOT LIMITED TO, THE 1980 COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND/OR THE 1976 RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), OR
  - C. 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 STATE(S) IN WHICH THE PROJECT IS LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR
  - D. THE PRESENCE OF ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR
  - E. THE PRESENCE OF ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE ENVIRONMENT, OR
  - F. CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (G) CONTAIN POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, MERCURY, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
26. 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.
27. 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 ON 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 SPILL ON ANY PERSON OR PROPERTY, NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND NOTIFY OWNER IN WRITING.
28. 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.
29. 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.
30. 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 OR IN THE EVENT OF ANY SPILL, RELEASE OR ANY REPORTABLE OCCURRENCES, 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)**

31. 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.
32. A SUFFICIENT LABOR FORCE SHALL BE MAINTAINED TO UNDERTAKE THE SCOPE OF WORK THAT IS TO BE PERFORMED. PRIOR TO THE START OF EACH DAY'S 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 INSPECTOR FEELS THAT ADEQUATE PERSONNEL ARE NOT BEING PROVIDED, HE MAY STOP ALL WORK ACTIVITIES UNTIL 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.
33. 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.
34. THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF CONSTRUCTION ACTIVITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 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
35. 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 FOR VERIFICATION. 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.
36. 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 BY ANY AGENCIES. 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.
37. 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 TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS 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.
38. 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.
39. 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.
40. RELOCATE ALL ROAD SIGNS WITHIN THE PROJECT LIMITS THAT WILL BE IMPACTED BY THE CONSTRUCTION. ANY EXISTING DAMAGED SIGNS OR POST SHALL BE REPLACED WITH LIKE SIGNS MEETING THE REQUIREMENTS OF THE MUTCD & FDOT.
41. CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DISTURBANCE BEYOND THE PERMITTED LIMITS OF CLEARING.
42. 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.
43. 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.
44. THE STOCKPILING OF MATERIAL MAY REQUIRE AN ADDITIONAL PERMIT BY THE CONTRACTOR.

45. TREE PROTECTION, 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. CONTRACTOR SHALL ADHERE TO THE APPROVED TREE MITIGATION PLAN.

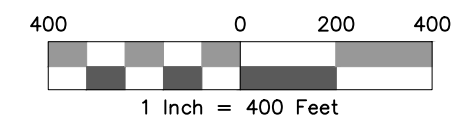
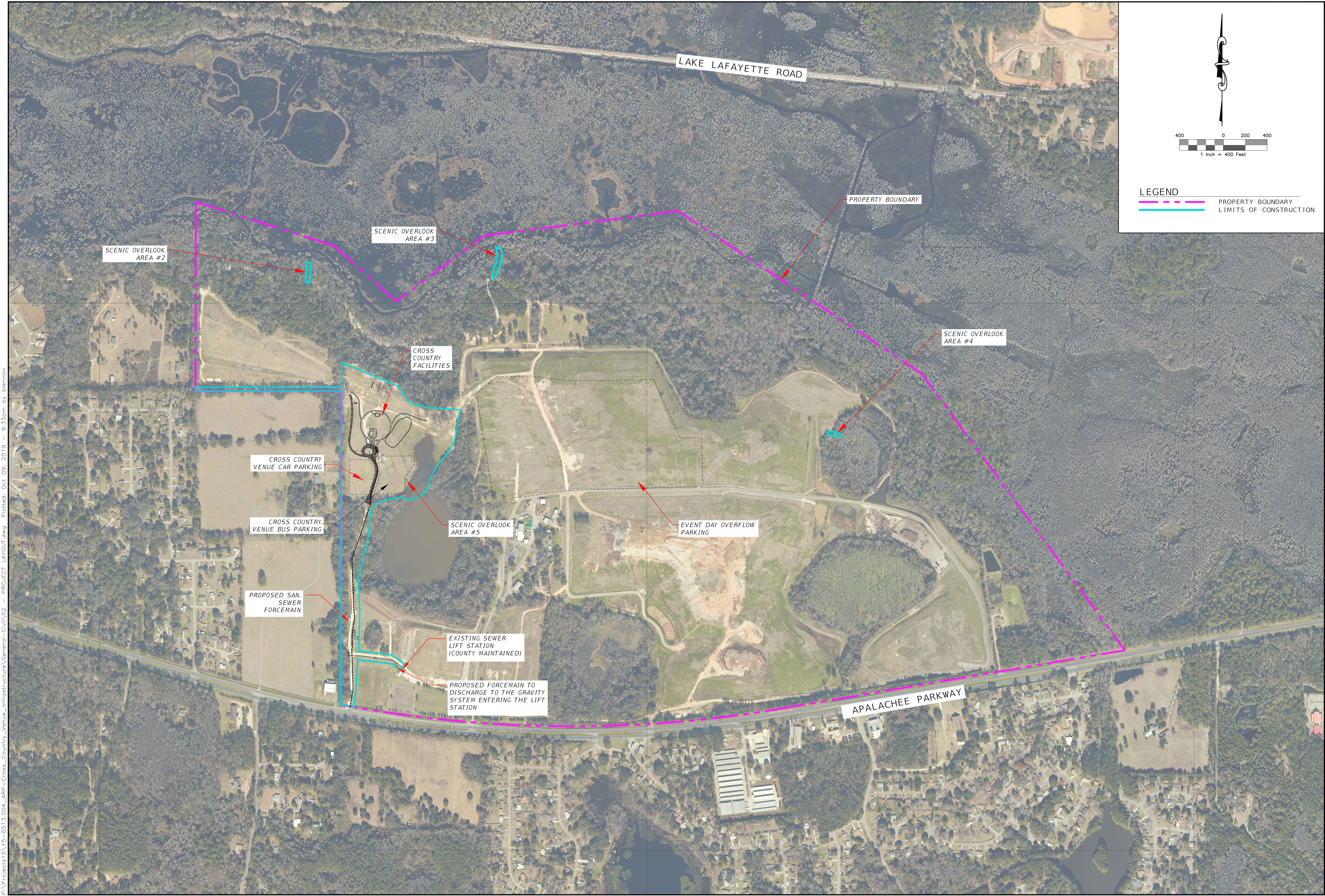
**TRAFFIC CONTROL NOTES:**

- 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 (TTCP) WHICH SHALL BE APPROVED BY DESIGN ENGINEER AND COUNTY ENGINEER PRIOR TO START OF CONSTRUCTION. MOT 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 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.
- ALL TRAFFIC CONTROL IS INCIDENTAL TO THE PROJECT AND IS NOT PAID FOR SEPARATELY.

**CONSTRUCTION NOTES:**

1. 8-FOOT TALL WOOD FENCE SHALL BE CONSTRUCTED IMMEDIATELY AFTER MOBILIZATION.
2. FINISH LINE STRUCTURE SHALL BE COMPLETED NO LATER THAN AUGUST 31ST, 2020.
3. BY MAY 31ST, IT IS EXPECTED THAT 50% WILL BE INSTALLED ON THE MAJORITY OF THE SITE AS SHOWN IN THE PLANS. CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ACCESS MANAGEMENT AFTER THIS DATE.

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	DATE						
	MHB	JMM	BRL	BRL			
	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY			
<b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b>		2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501		DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE			
<b>GENERAL NOTES</b>		<b>APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS</b>		ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2648 2882 Remington Green Circle Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM			
BENJAMIN LENNON, P.E. Florida Engineer #78674 PROJECT NO.:		15-0513.004		SCALE:			
DATE:		10/8/2019		DRAWING:			
AS SHOWN		2					



**LEGEND**  
 --- PROPERTY BOUNDARY  
 --- LIMITS OF CONSTRUCTION



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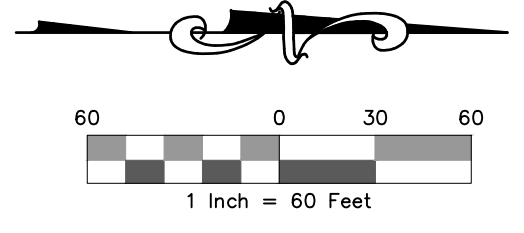
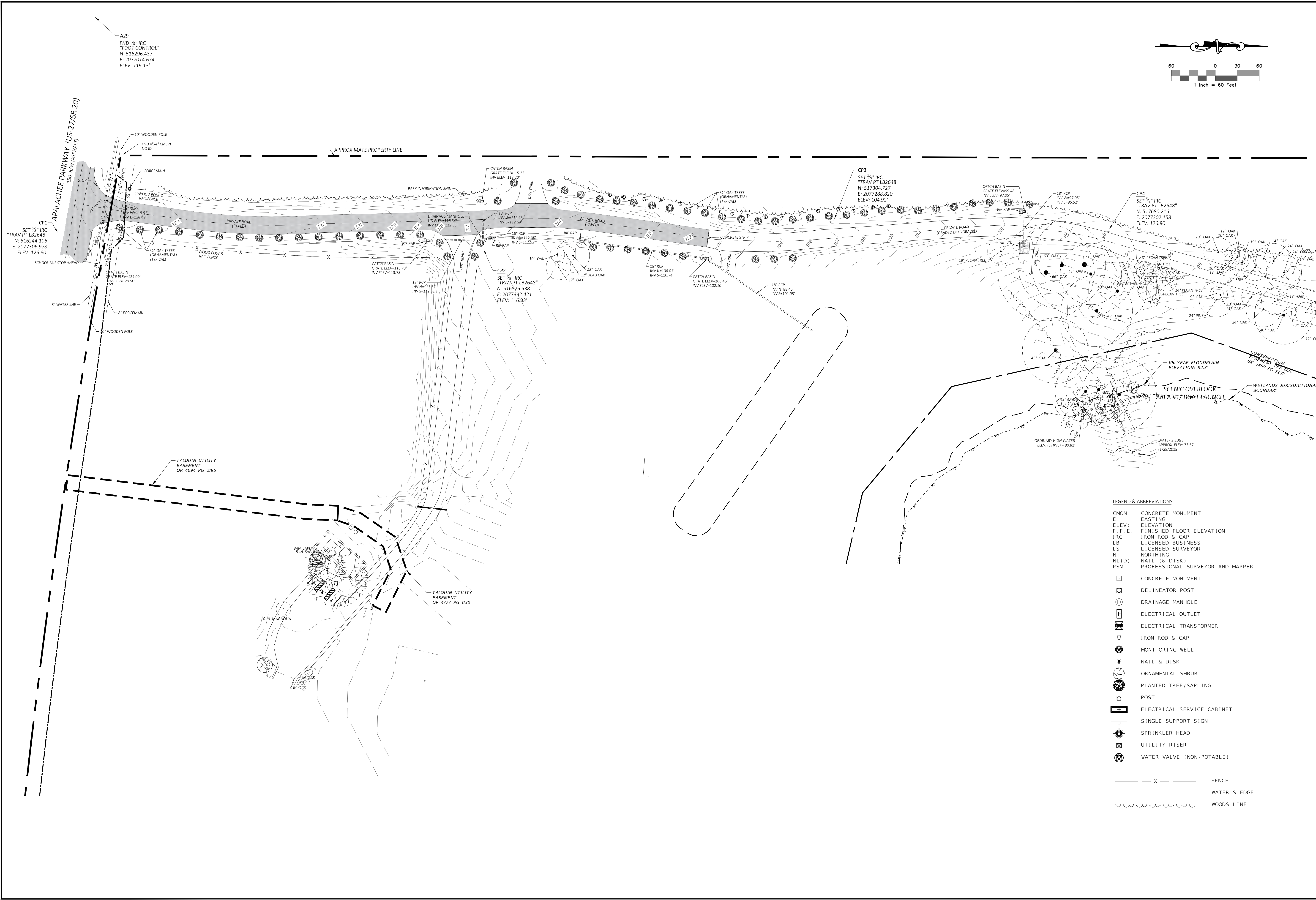
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**PROJECT LAYOUT**  
**APALACHEE REGIONAL PARK**  
**CROSS COUNTRY VENUE**  
**INFRASTRUCTURE IMPROVEMENTS**

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 Florida Engineer #78674  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 10/8/2019  
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**LEGEND & ABBREVIATIONS**

- CMON CONCRETE MONUMENT
- E EASTING
- ELEV. ELEVATION
- F.F.E. FINISHED FLOOR ELEVATION
- IRC IRON ROD & CAP
- LB LICENSED BUSINESS
- LS LICENSED SURVEYOR
- N NORTHING
- NL(D) 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)

- - - - - FENCE
- - - - - WATER'S EDGE
- - - - - WOODS LINE

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**EXISTING CONDITIONS**  
**APALACHEE REGIONAL PARK**  
**CROSS COUNTRY VENUE**  
**INFRASTRUCTURE IMPROVEMENTS**

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JEFFREY R. LANCE  
 Florida No: LS 5657

PROJECT NO.:  
**15-0513.004**

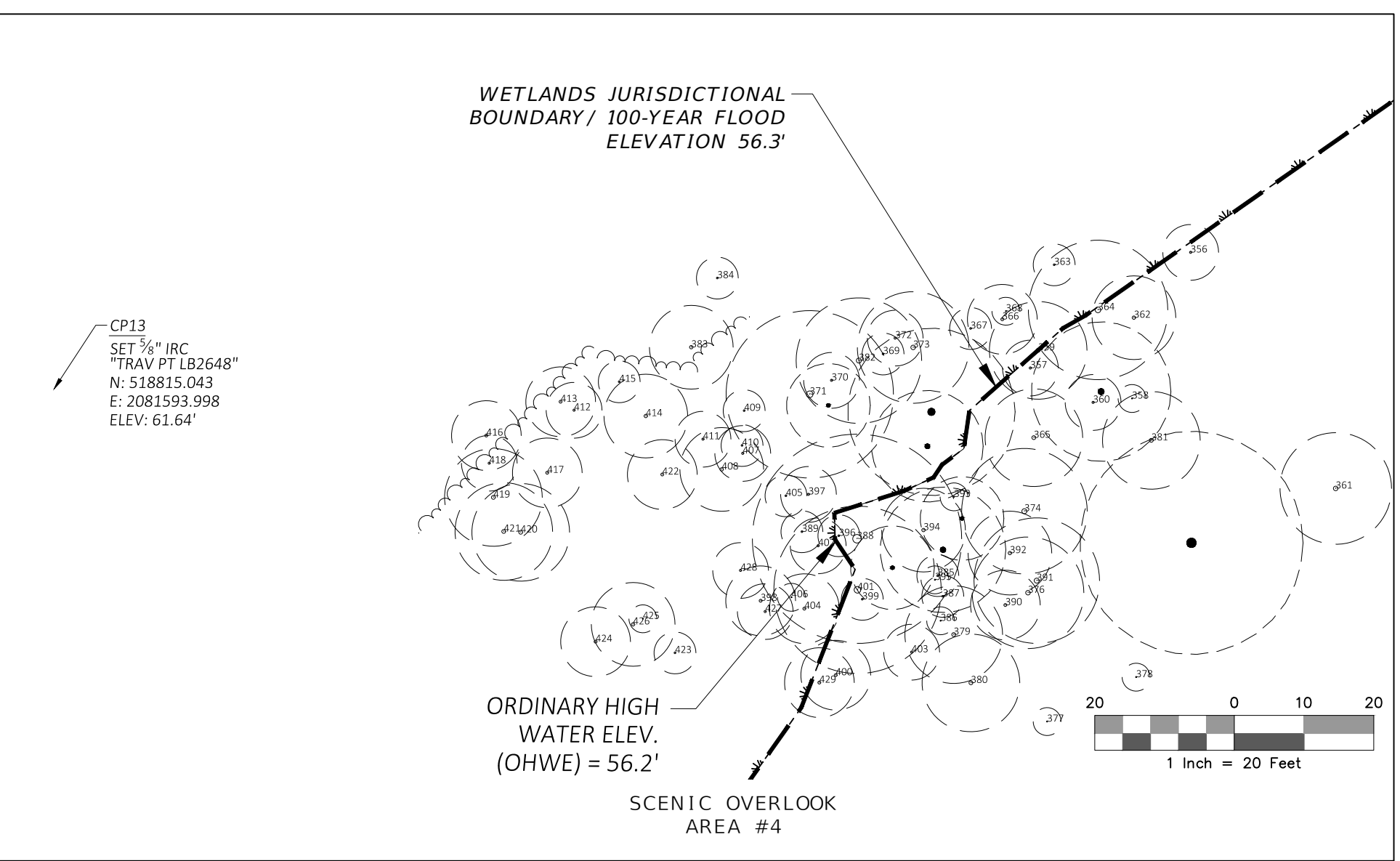
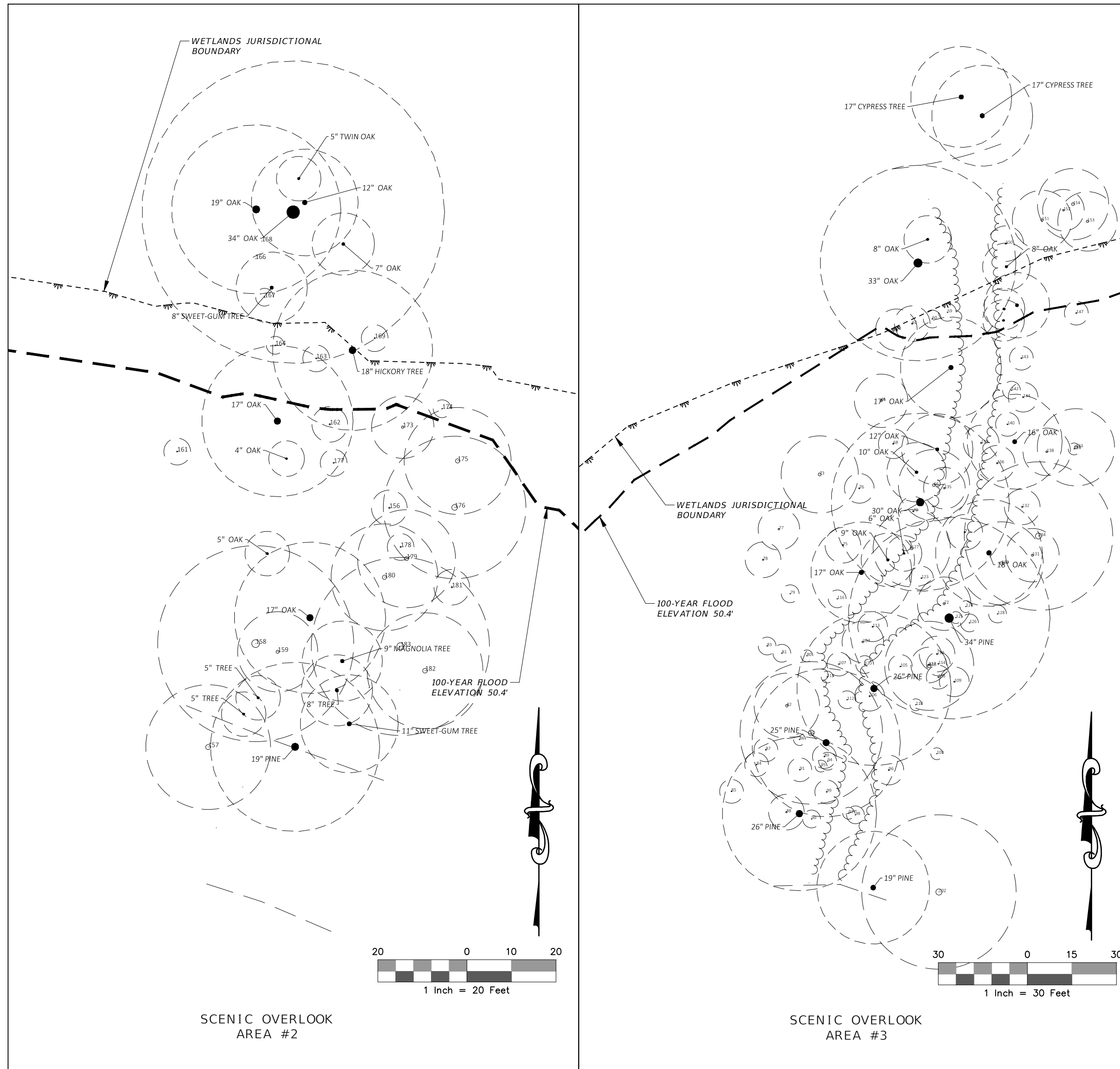
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**10/8/2019**

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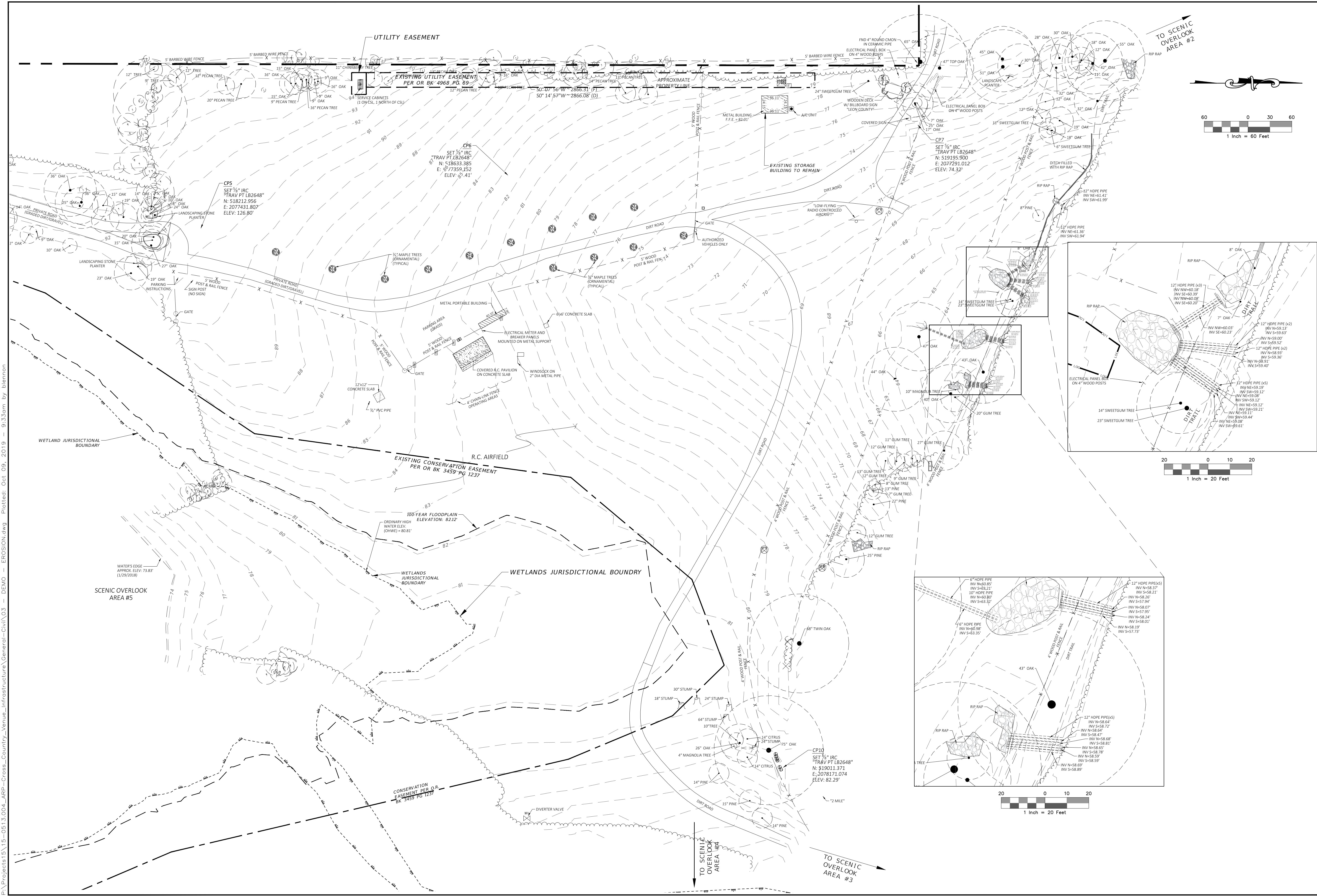
**SURVEYOR'S NOTES**

- 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 FPRN stations Tallahassee (TALH) and Bradfordville (FLJL). 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 established site control points CP1 and CP2, being North 02° 30' 05" 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'  
 LEO 19 FLDNR (BE2018) - A FLDEP survey disk set in concrete, stamped "LEO 19 CLB 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, sub-surface utilities, foundations/footers, or burial sites were located, except as shown.

**LEGEND & ABBREVIATIONS**

CMON	CONCRETE MONUMENT
E.	EASTING
ELEV.	ELEVATION
F.F.E.	FINISHED FLOOR ELEVATION
IRC	IRON ROD & CAP
LB	LICENSED BUSINESS
LS	LICENSED SURVEYOR
N.	NORTHING
NL(D)	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)
---	FENCE
---	WATER'S EDGE
~~~~~	WOODS LINE

<p><b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b></p> <p>2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501</p>	<p><b>EXISTING CONDITIONS</b></p> <p><b>APALACHEE REGIONAL PARK</b></p> <p><b>CROSS COUNTRY VENUE</b></p> <p><b>INFRASTRUCTURE IMPROVEMENTS</b></p>	<p><b>DRMP</b></p> <p>ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS</p> <p>Certificate of Authorization No. 2648 2882 Remington Green Circle Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM</p>	<p>DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE</p>
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**EXISTING CONDITIONS APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

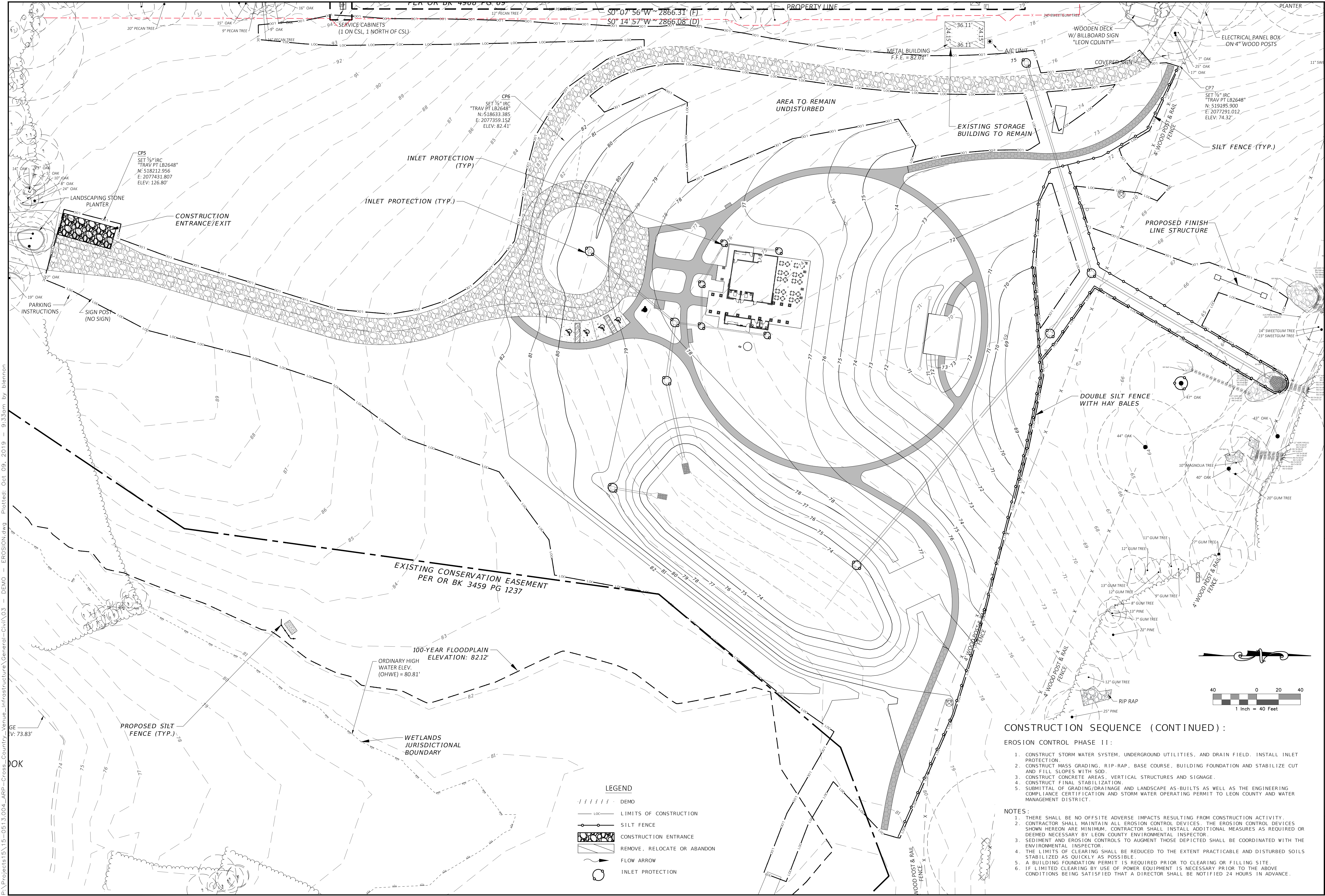
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**LEGEND**

	DEMO
	LIMITS OF CONSTRUCTION
	SILT FENCE
	CONSTRUCTION ENTRANCE
	REMOVE, RELOCATE OR ABANDON
	FLOW ARROW
	INLET PROTECTION

- CONSTRUCTION SEQUENCE (CONTINUED):**
- EROSION CONTROL PHASE 11:**
1. CONSTRUCT STORM WATER SYSTEM, UNDERGROUND UTILITIES, AND DRAIN FIELD. INSTALL INLET PROTECTION.
  2. CONSTRUCT MASS GRADING, RIP-RAP, BASE COURSE, BUILDING FOUNDATION AND STABILIZE CUT AND FILL SLOPES WITH SOD.
  3. CONSTRUCT CONCRETE AREAS, VERTICAL STRUCTURES AND SIGNAGE.
  4. CONSTRUCT FINAL STABILIZATION.
  5. 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.
  2. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES. THE EROSION CONTROL DEVICES SHOWN HEREON ARE MINIMUM. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS REQUIRED OR DEEMED NECESSARY BY LEON COUNTY ENVIRONMENTAL INSPECTOR.
  3. SEDIMENT AND EROSION CONTROLS TO AUGMENT THOSE DEPICTED SHALL BE COORDINATED WITH THE ENVIRONMENTAL INSPECTOR.
  4. THE LIMITS OF CLEARING SHALL BE REDUCED TO THE EXTENT PRACTICABLE AND DISTURBED SOILS STABILIZED AS QUICKLY AS POSSIBLE.
  5. A BUILDING FOUNDATION PERMIT IS REQUIRED PRIOR TO CLEARING OR FILLING SITE.
  6. IF LIMITED CLEARING BY USE OF POWER EQUIPMENT IS NECESSARY PRIOR TO THE ABOVE CONDITIONS BEING SATISFIED THAT A DIRECTOR SHALL BE NOTIFIED 24 HOURS IN ADVANCE.



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

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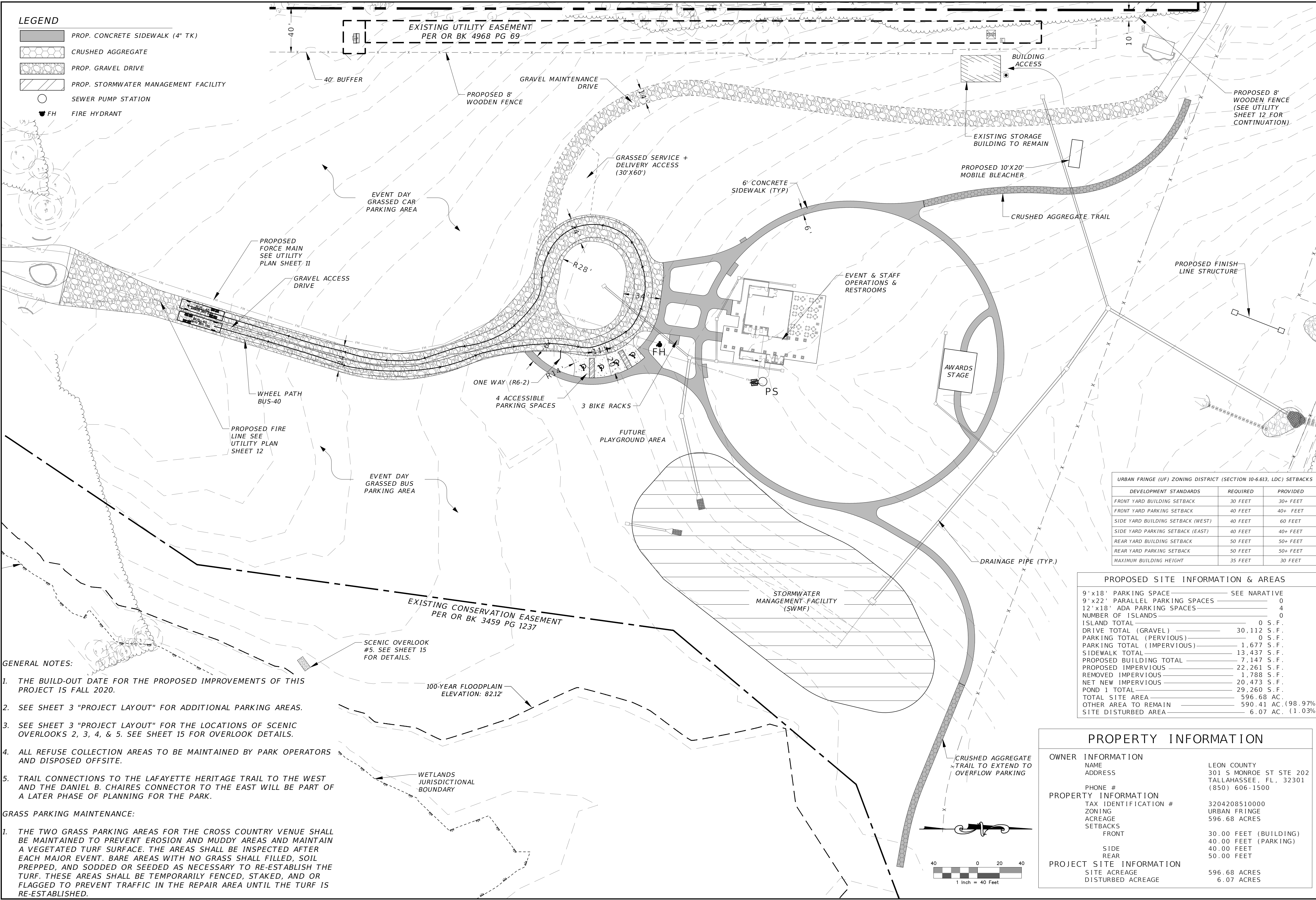
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**LEGEND**

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

**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	60 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'x18' PARKING SPACE	SEE NARATIVE
9'x22' PARALLEL PARKING SPACES	0
12'x18' 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.
SIDEWALK TOTAL	13,437 S.F.
PROPOSED BUILDING TOTAL	7,147 S.F.
PROPOSED IMPERVIOUS	22,261 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 (BUILDING)
	40.00 FEET (PARKING)
SIDE	40.00 FEET
REAR	50.00 FEET
PROJECT SITE INFORMATION	
SITE ACREAGE	596.68 ACRES
DISTURBED ACREAGE	6.07 ACRES

- GENERAL NOTES:**
1. THE BUILD-OUT DATE FOR THE PROPOSED IMPROVEMENTS OF THIS PROJECT IS FALL 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, & 5. SEE SHEET 15 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 FILLED, SOIL PREPPED, 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.

R E V I S I O N S  
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 JMM  
 BRL  
 BRL  
 DESIGNED BY  
 DRAWN BY  
 CHECKED BY  
 APPROVED BY

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**SITE PLAN**  
**APALACHEE REGIONAL PARK**  
**CROSS COUNTRY VENUE**  
**INFRASTRUCTURE IMPROVEMENTS**

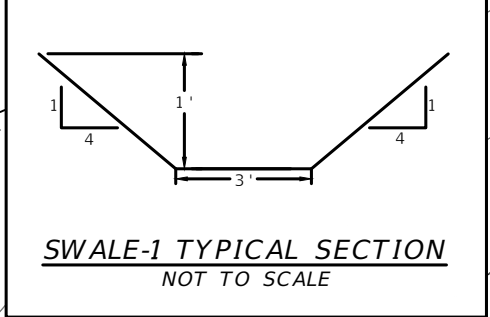
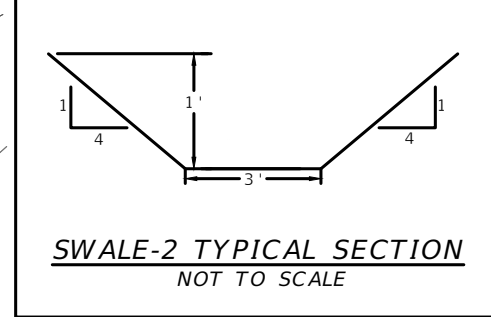
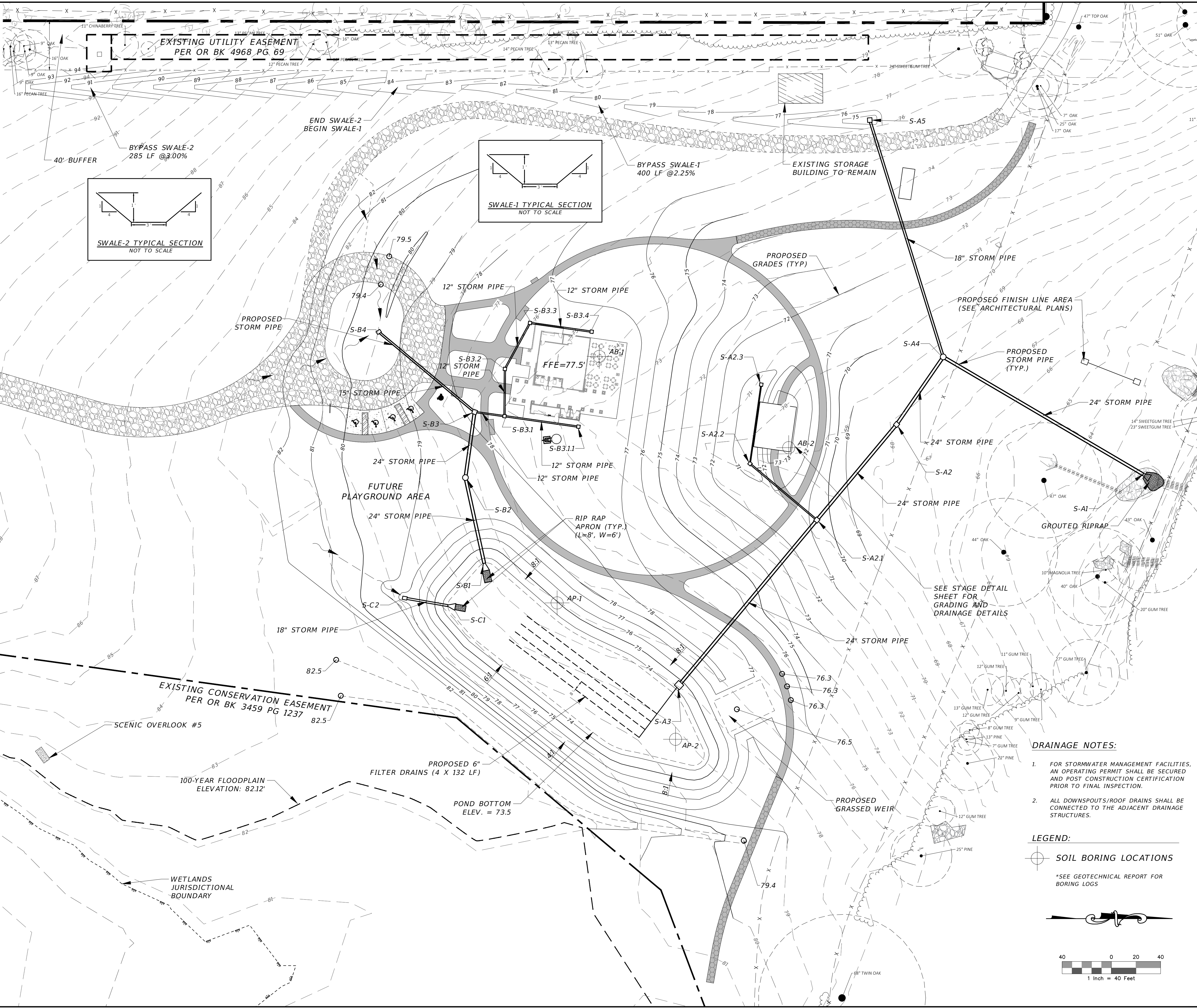
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**9**

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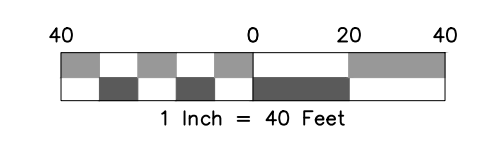
**POND NOTES:**

- 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 3% FINES 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 SILTS, 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



NO.	DATE	DESCRIPTION	BY

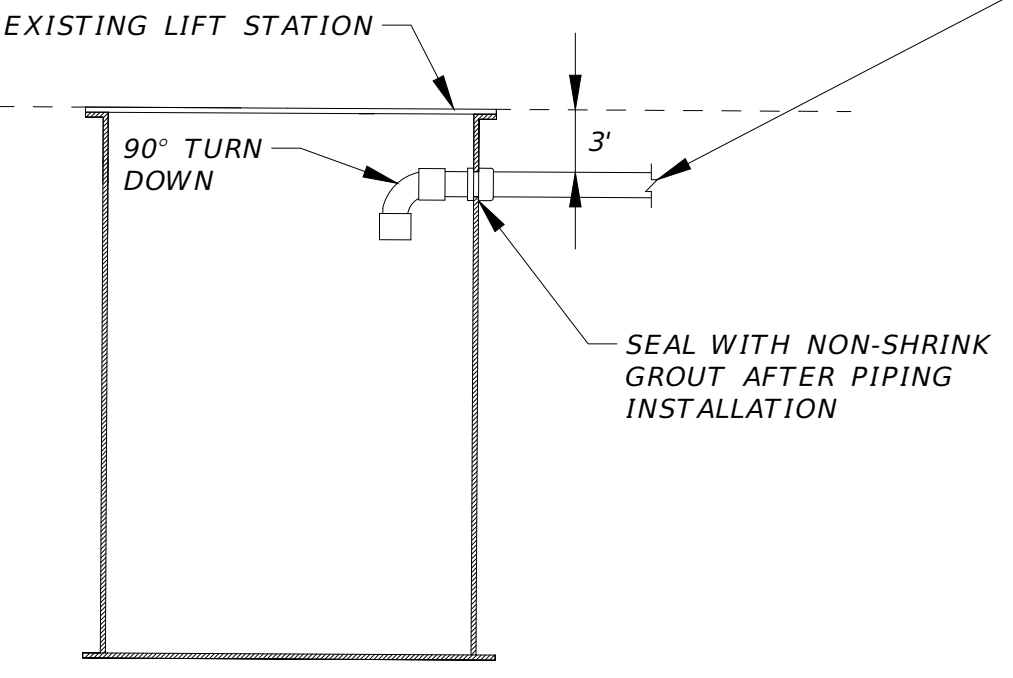
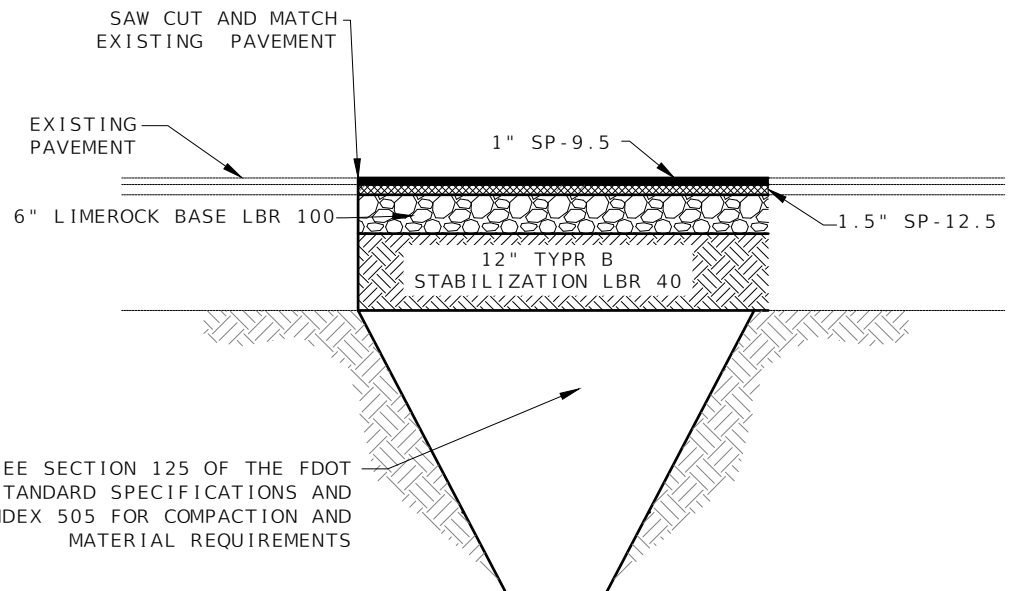
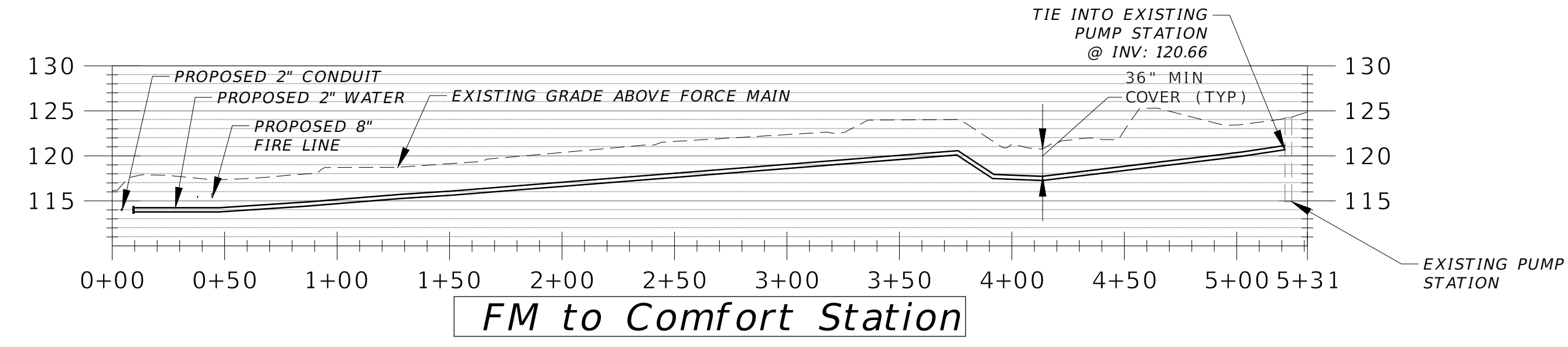
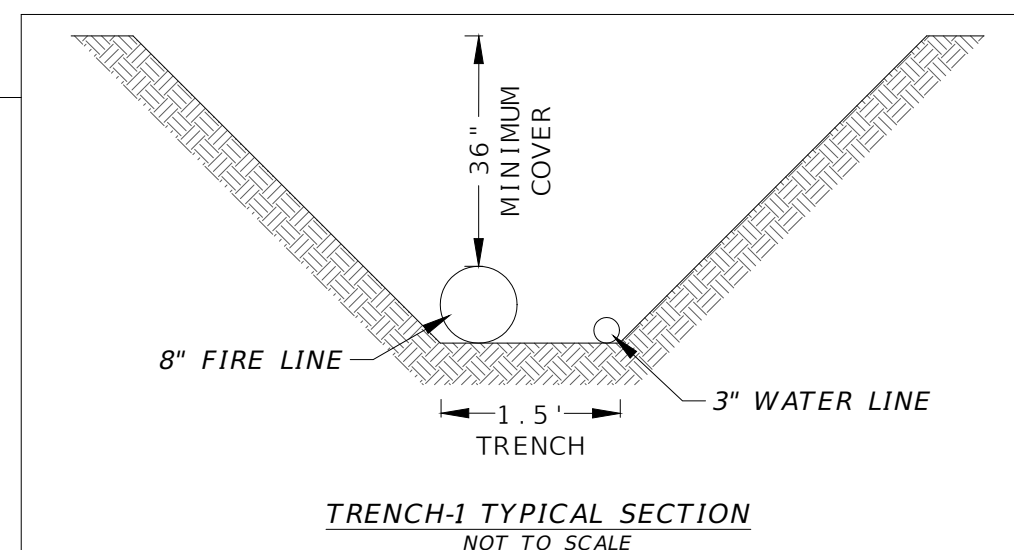
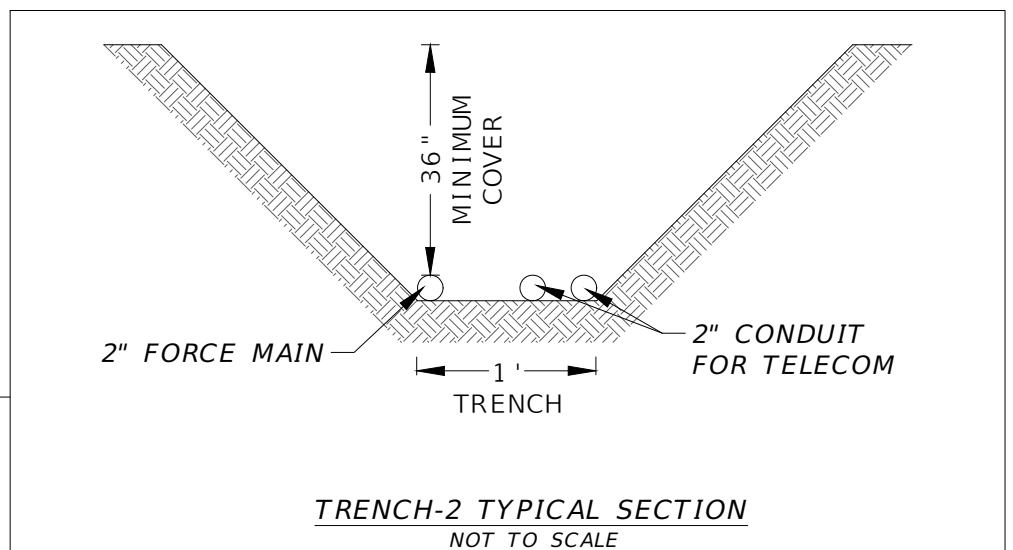
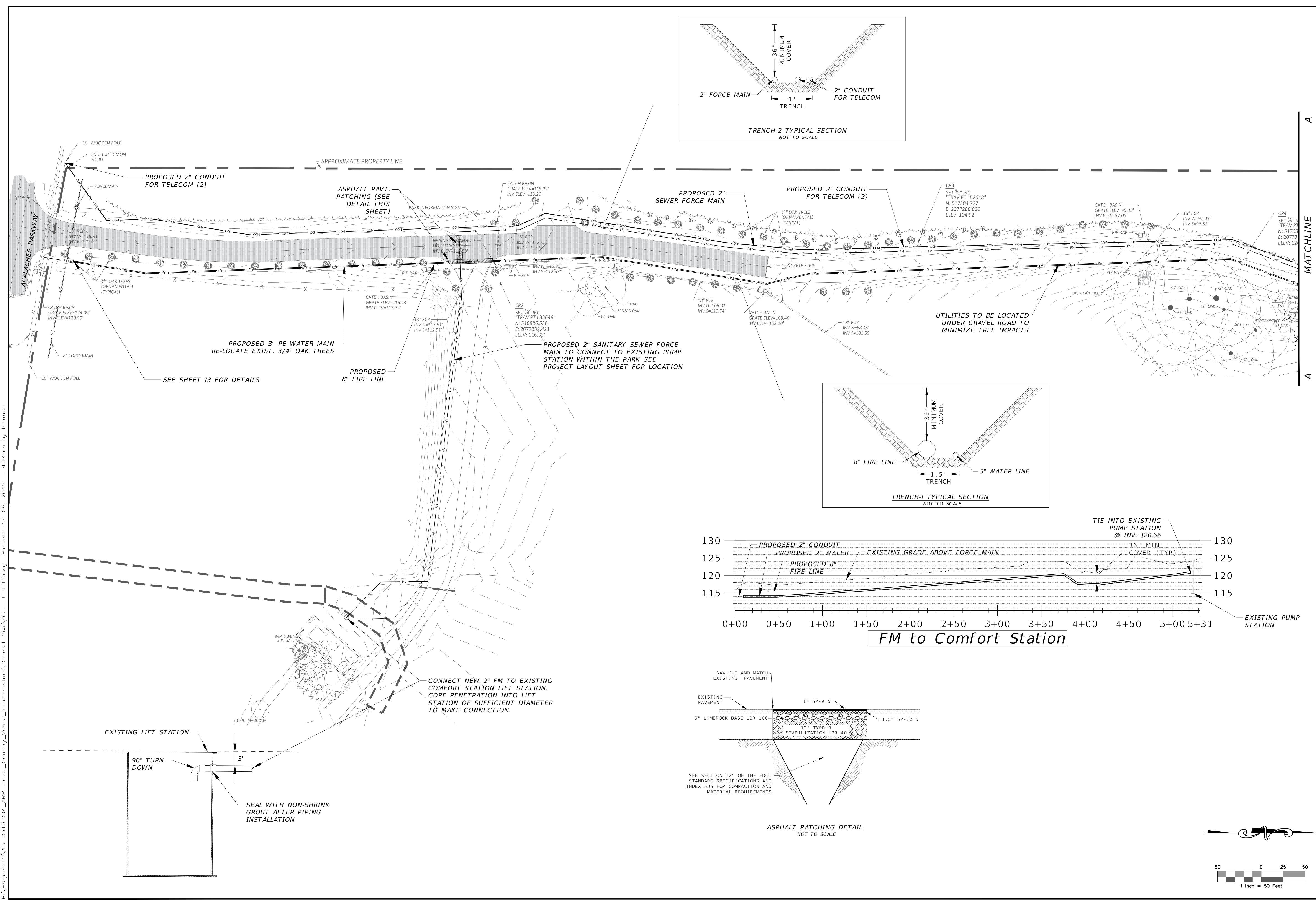
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
MHB	JMM	BRJ	BRJ

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

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

**DRMP**  
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
 Certificate of Authorization No. 2648  
 2882 Romington Green Circle  
 Tallahassee, Florida 32308  
 Phone: 850.562.9600 WWW.DRMP.COM

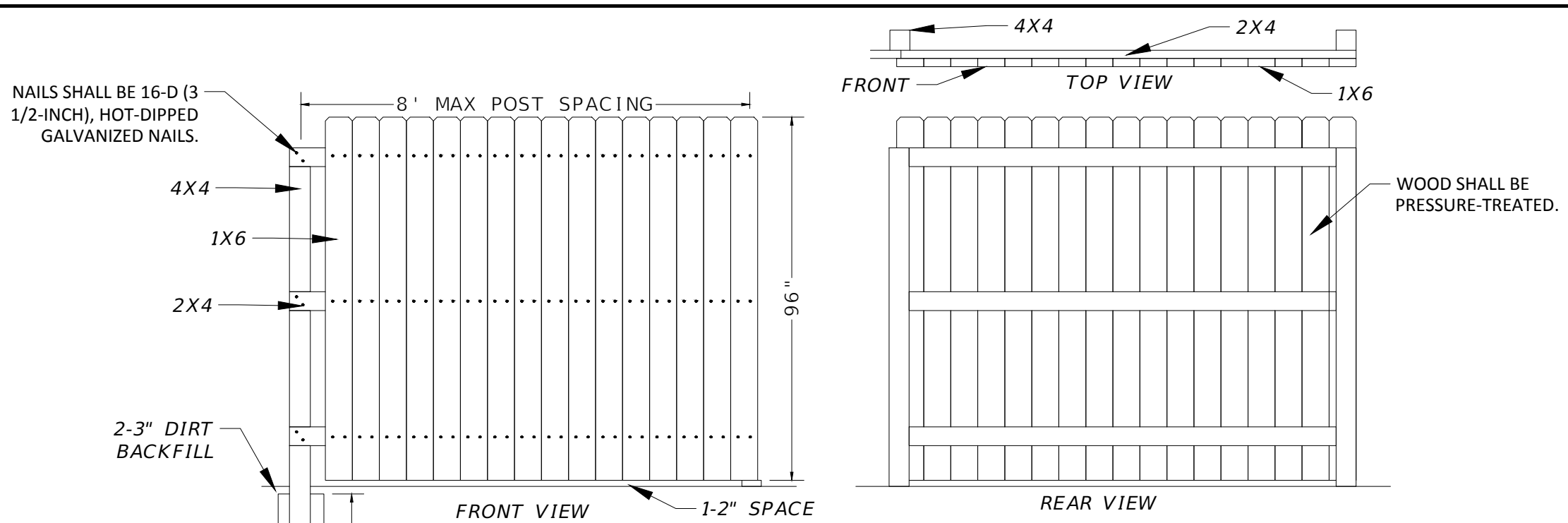
BENJAMIN LENNON, P.E.  
 Florida Engineer #78674  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 10/8/2019  
 DRAWING: 10



REVISIONS NO. DATE DESCRIPTION BY				
MHB DESIGNED BY	JMM DRAWN BY	BRL CHECKED BY	BRL APPROVED BY	LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501
UTILITY PLAN APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS				DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2648 2882 Remington Green Circle Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE				BENJAMIN LENNON, P.E. Florida Engineer #78674 PROJECT NO.: 15-0513.004 SCALE: AS SHOWN DATE: 10/8/2019 DRAWING: 11

**FENCE AND BUFFER AREA NOTES:**

1. FENCE SHALL CROSS OVER SHARPE PROPERTY. LEON COUNTY SHALL OBTAIN AN EASEMENT FOR THIS WORK AND PROVIDE A COPY TO THE CONTRACTOR AND THE ENVIRONMENTAL INSPECTOR AT THE PRE-CONSTRUCTION MEETING.
2. ALL CONSTRUCTION WITHIN THE CPZ OF EXISTING TREES SHALL ADHERE TO THE APPROVED TREE MITIGATION PLAN.
3. NO IRRIGATION OR LANDSCAPING TO BE PLACED ALONG THIS SPAN. AREA BETWEEN FENCE AND PROPERTY LINE IS NOT TO BE MAINTAINED BY LEON COUNTY.



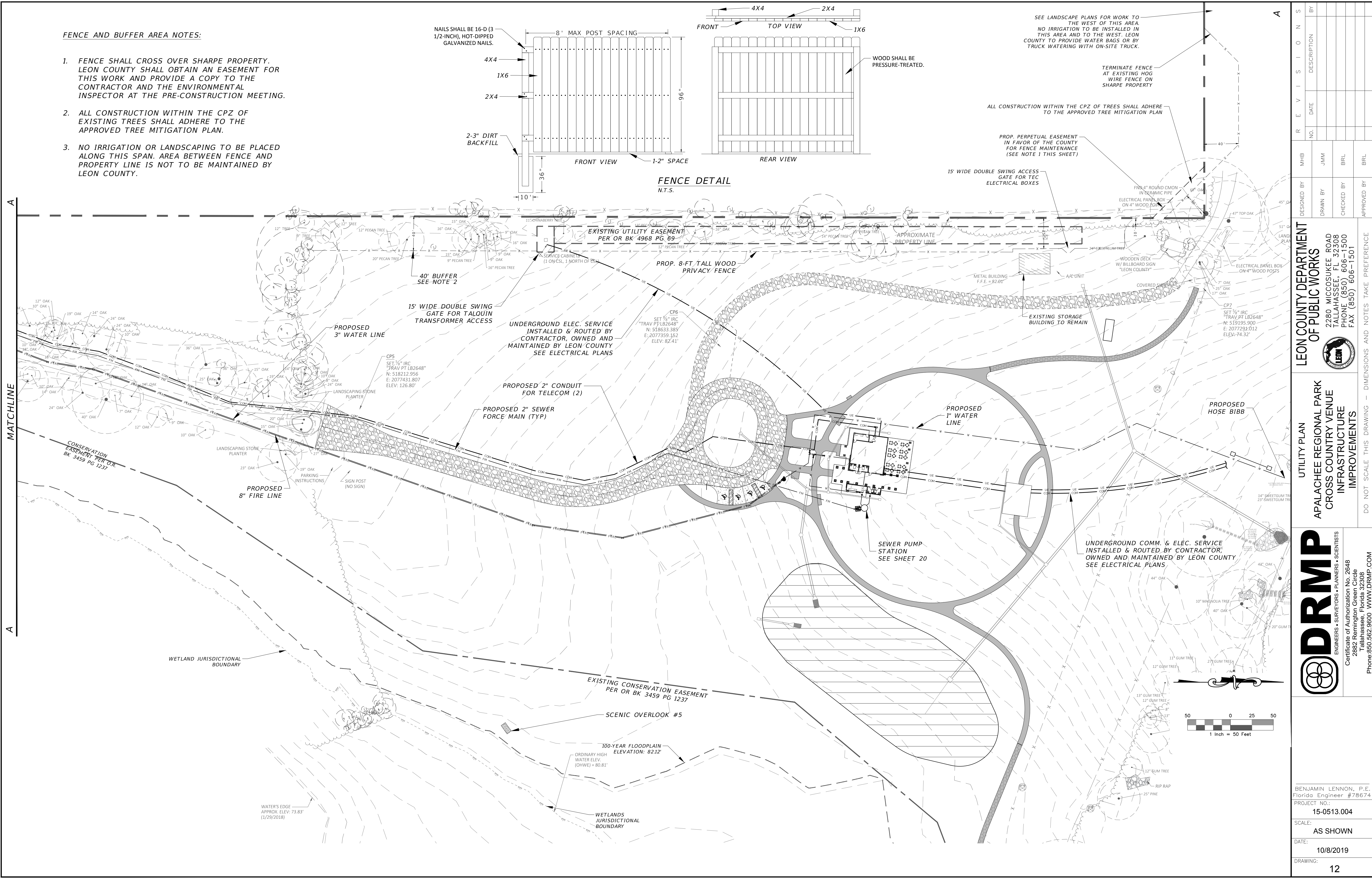
SEE LANDSCAPE PLANS FOR WORK TO THE WEST OF THIS AREA. NO IRRIGATION TO BE INSTALLED IN THIS AREA AND TO THE WEST. LEON COUNTY TO PROVIDE WATER BAGS OR BY TRUCK WATERING WITH ON-SITE TRUCK.

TERMINATE FENCE AT EXISTING HOG WIRE FENCE ON SHARPE PROPERTY

ALL CONSTRUCTION WITHIN THE CPZ OF TREES SHALL ADHERE TO THE APPROVED TREE MITIGATION PLAN

PROP. PERPETUAL EASEMENT IN FAVOR OF THE COUNTY FOR FENCE MAINTENANCE (SEE NOTE 1 THIS SHEET)

15' WIDE DOUBLE SWING ACCESS GATE FOR TREC ELECTRICAL BOXES



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

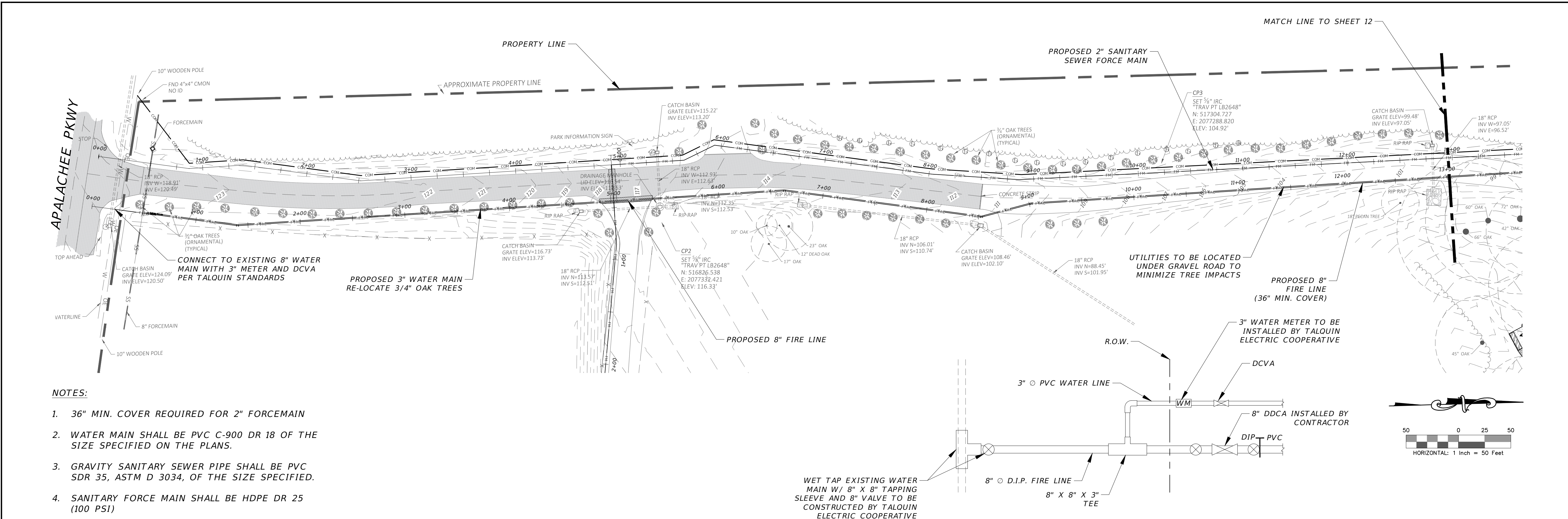
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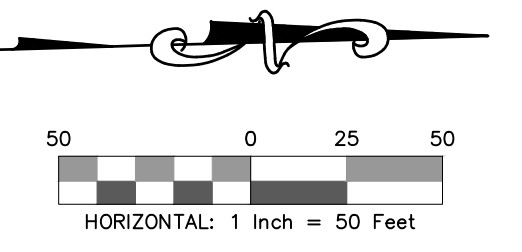
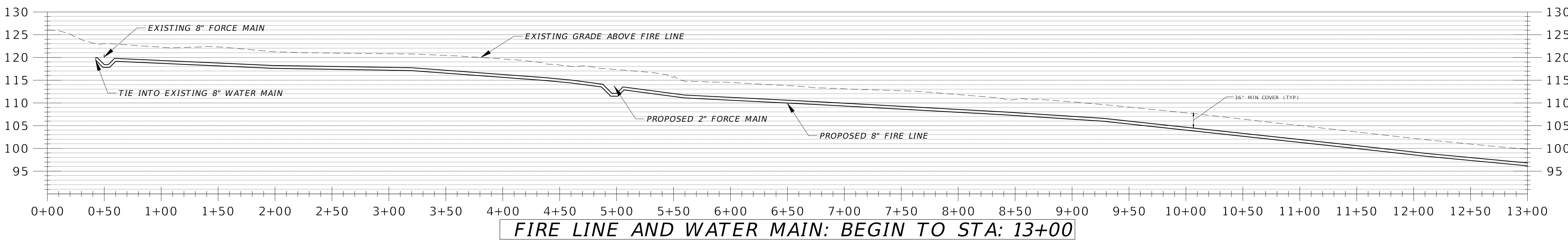
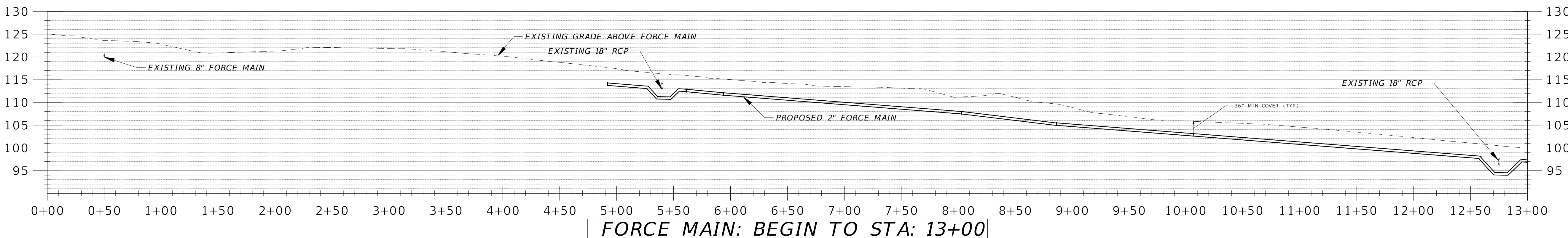
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BENJAMIN LENNON, P.E.  
Florida Engineer #78674  
PROJECT NO.: 15-0513.004  
SCALE: AS SHOWN  
DATE: 10/8/2019  
DRAWING: 12

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- NOTES:**
- 36" MIN. COVER REQUIRED FOR 2" FORCEMAIN
  - WATER MAIN SHALL BE PVC C-900 DR 18 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 25 (100 PSI)



NO.	DATE	DESCRIPTION	BY

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TALLAHASSEE, FL 32308  
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**UTILITY PLAN AND PROFILE**

**APALACHEE REGIONAL PARK**

**CROSS COUNTRY VENUE**

**INFRASTRUCTURE IMPROVEMENTS**

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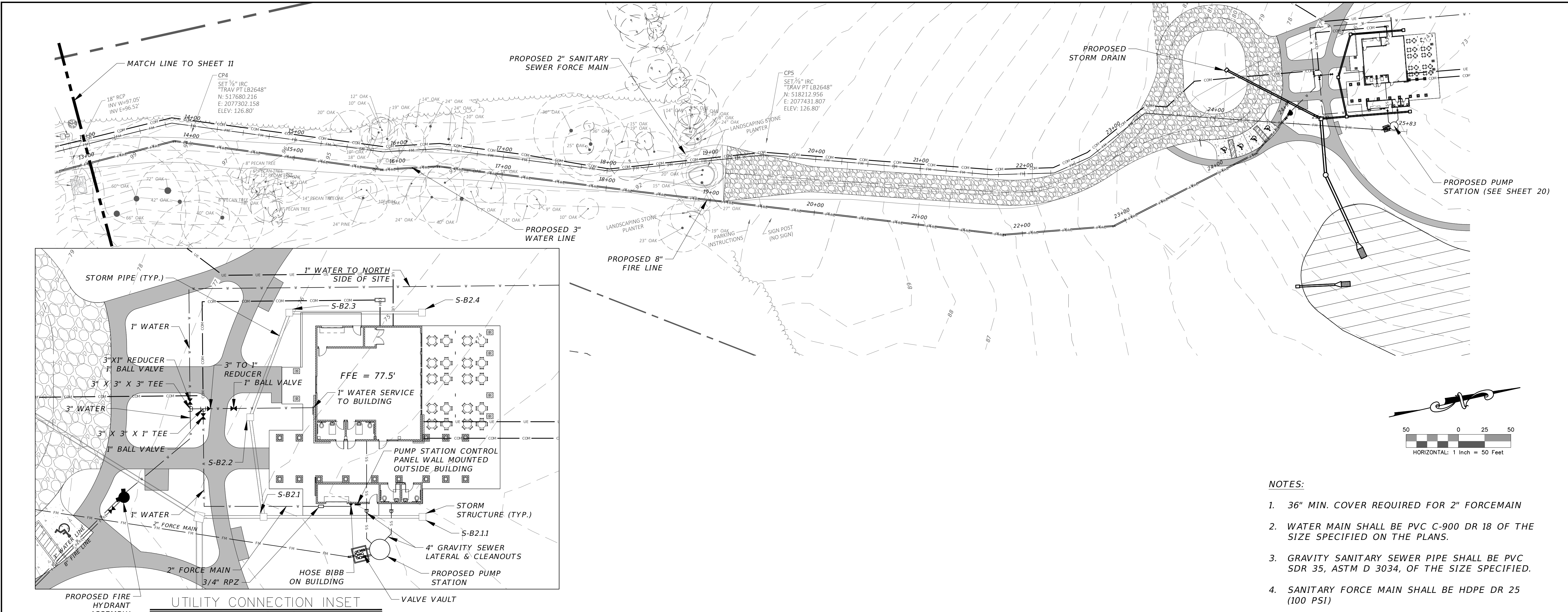
BENJAMIN LENNON, P.E.  
Florida Engineer #78674

PROJECT NO.:  
**15-0513.004**

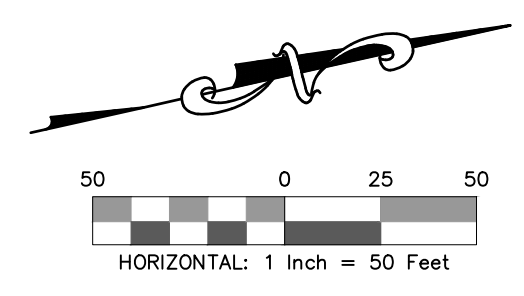
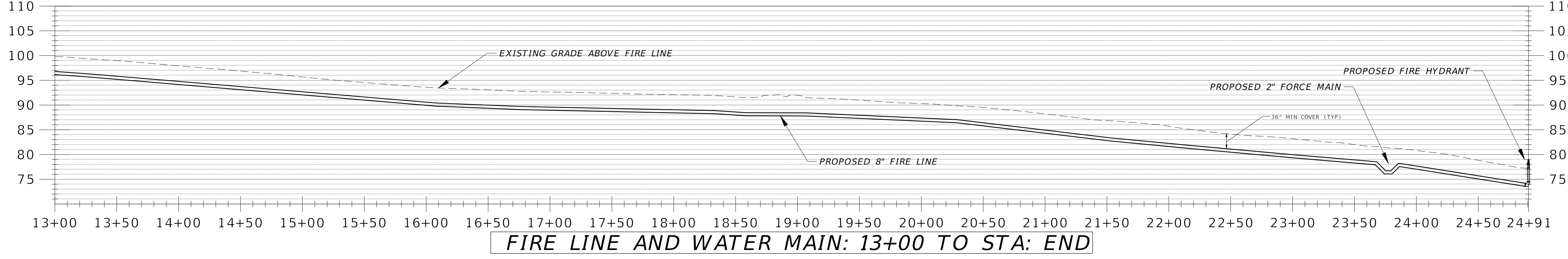
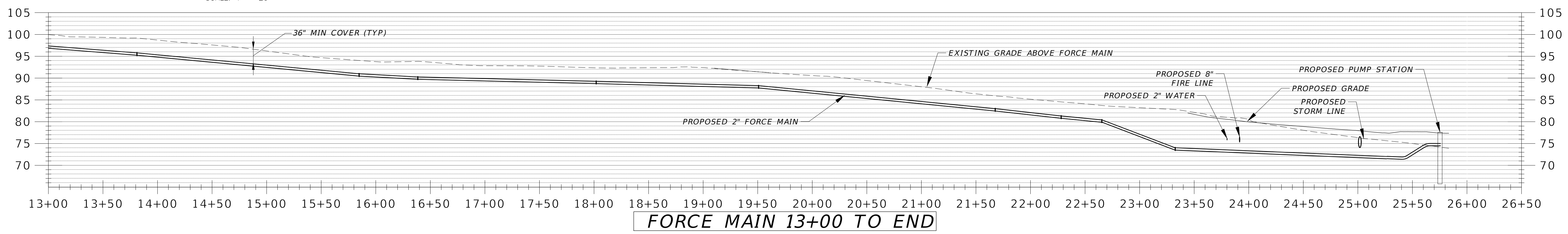
SCALE:  
**AS SHOWN**

DATE:  
**10/8/2019**

DRAWING:  
**13**



- NOTES:**
- 36" MIN. COVER REQUIRED FOR 2" FORCEMAIN
  - WATER MAIN SHALL BE PVC C-900 DR 18 OF THE SIZE SPECIFIED ON THE PLANS.
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  - SANITARY FORCE MAIN SHALL BE HDPE DR 25 (100 PSI)



NO.	DATE	DESCRIPTION	BY

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TALLAHASSEE, FL 32308  
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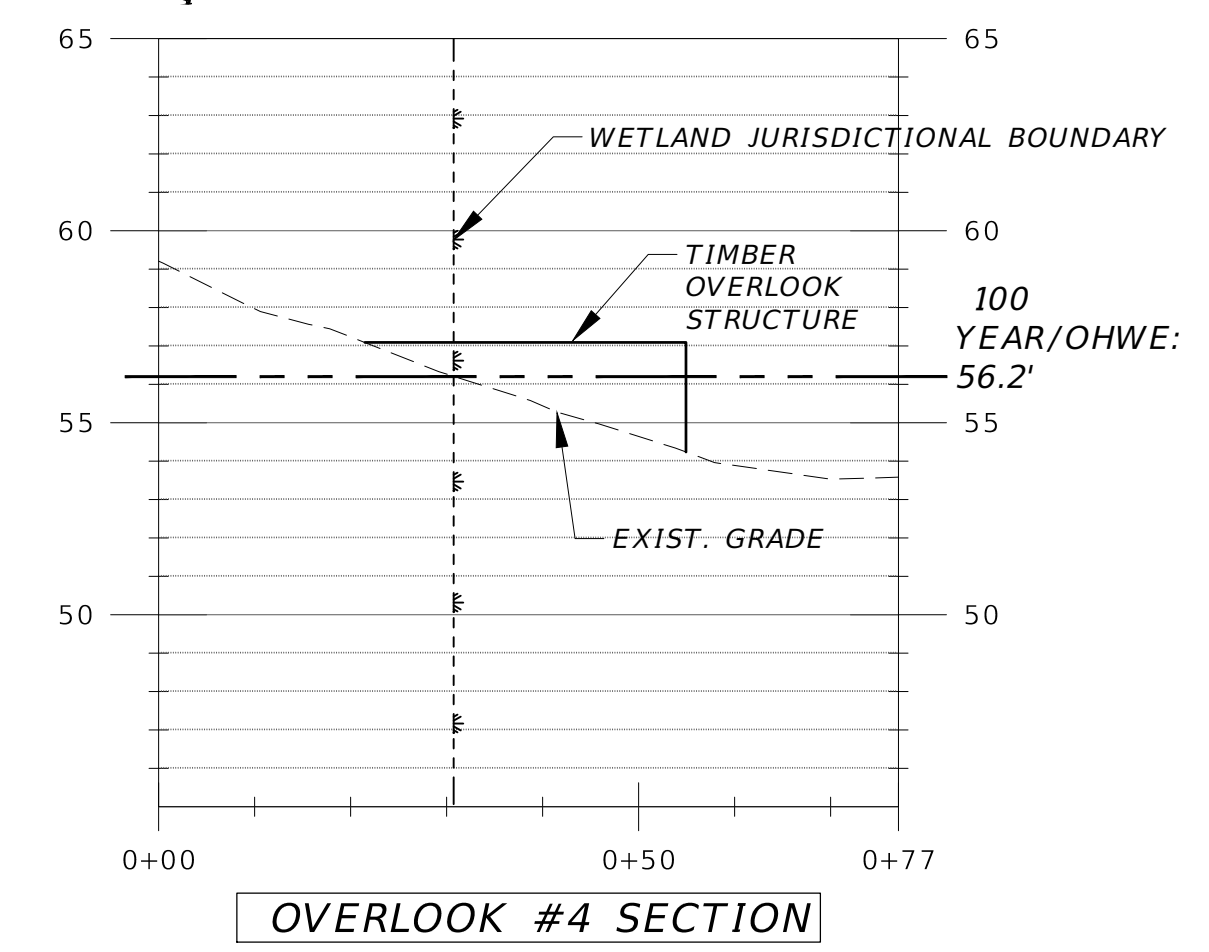
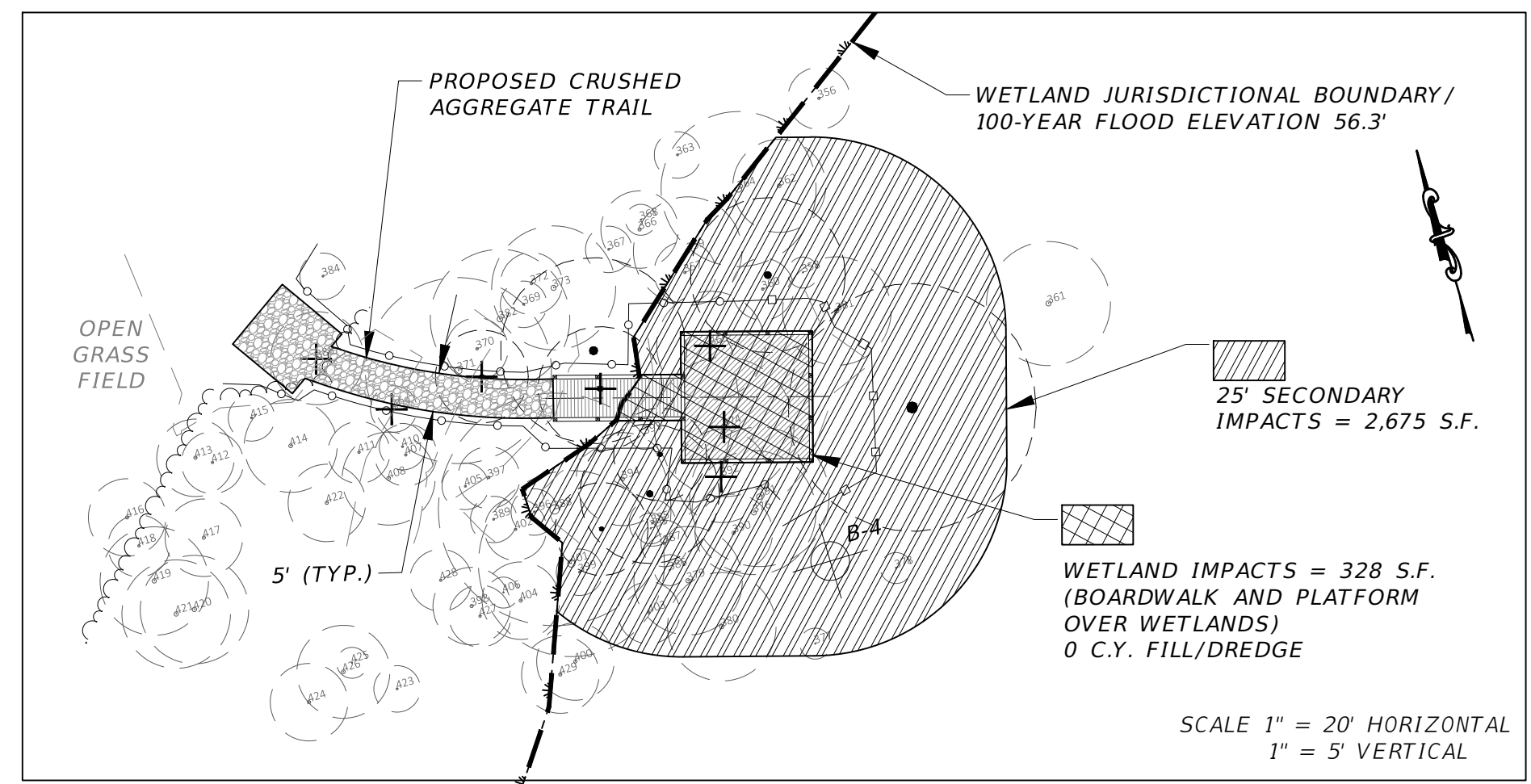
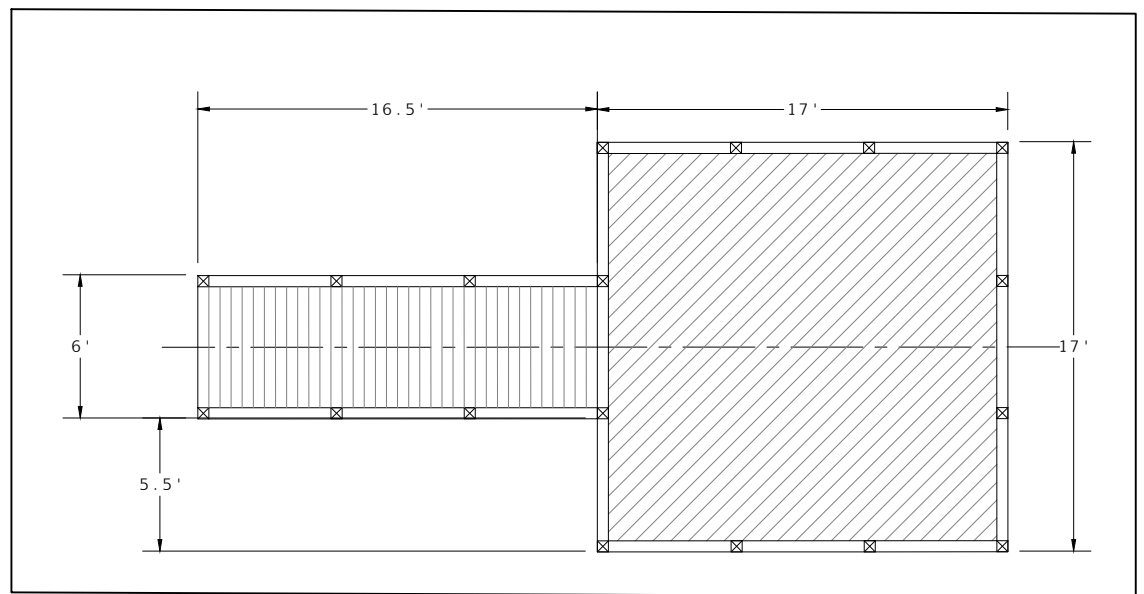
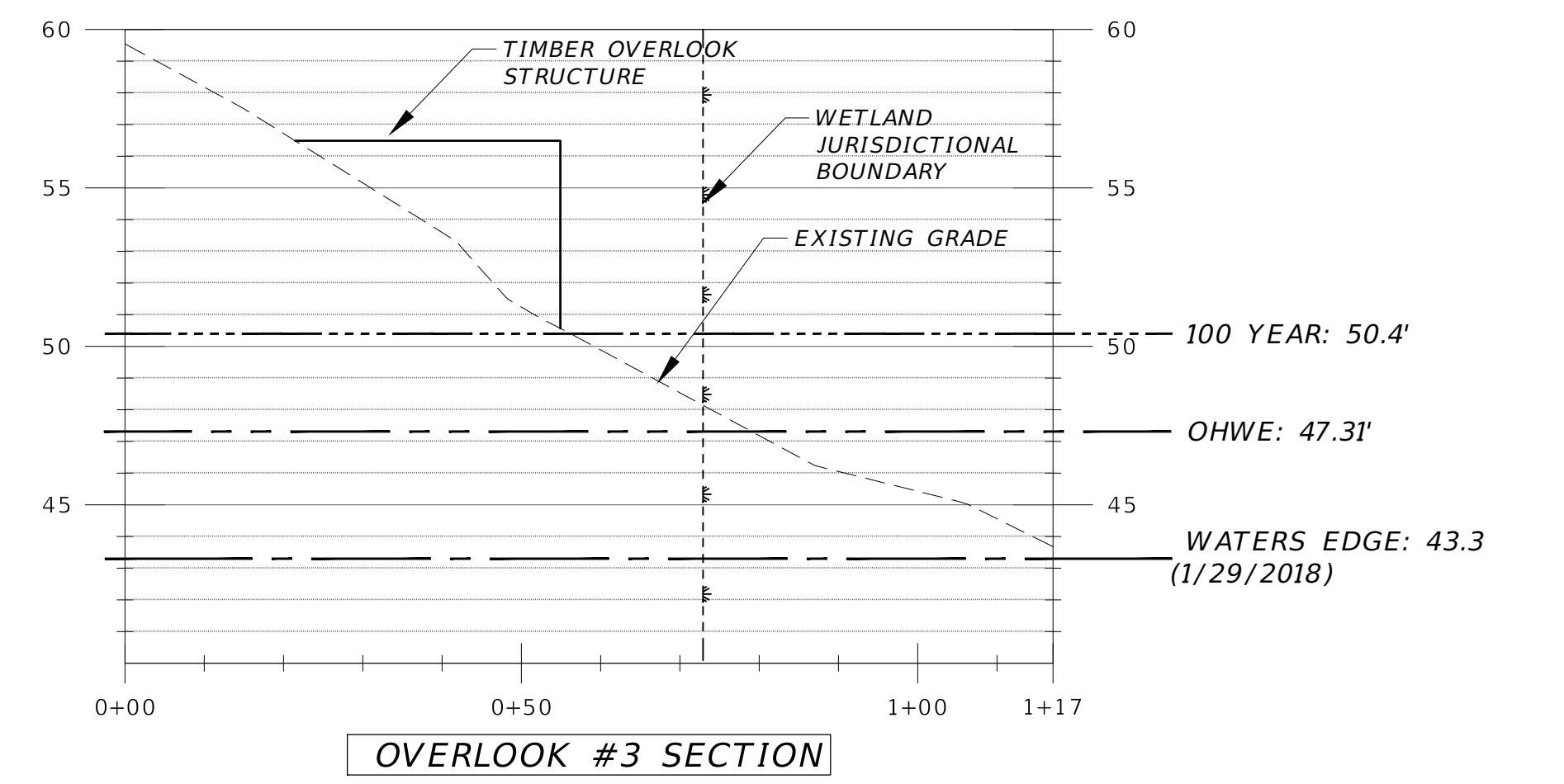
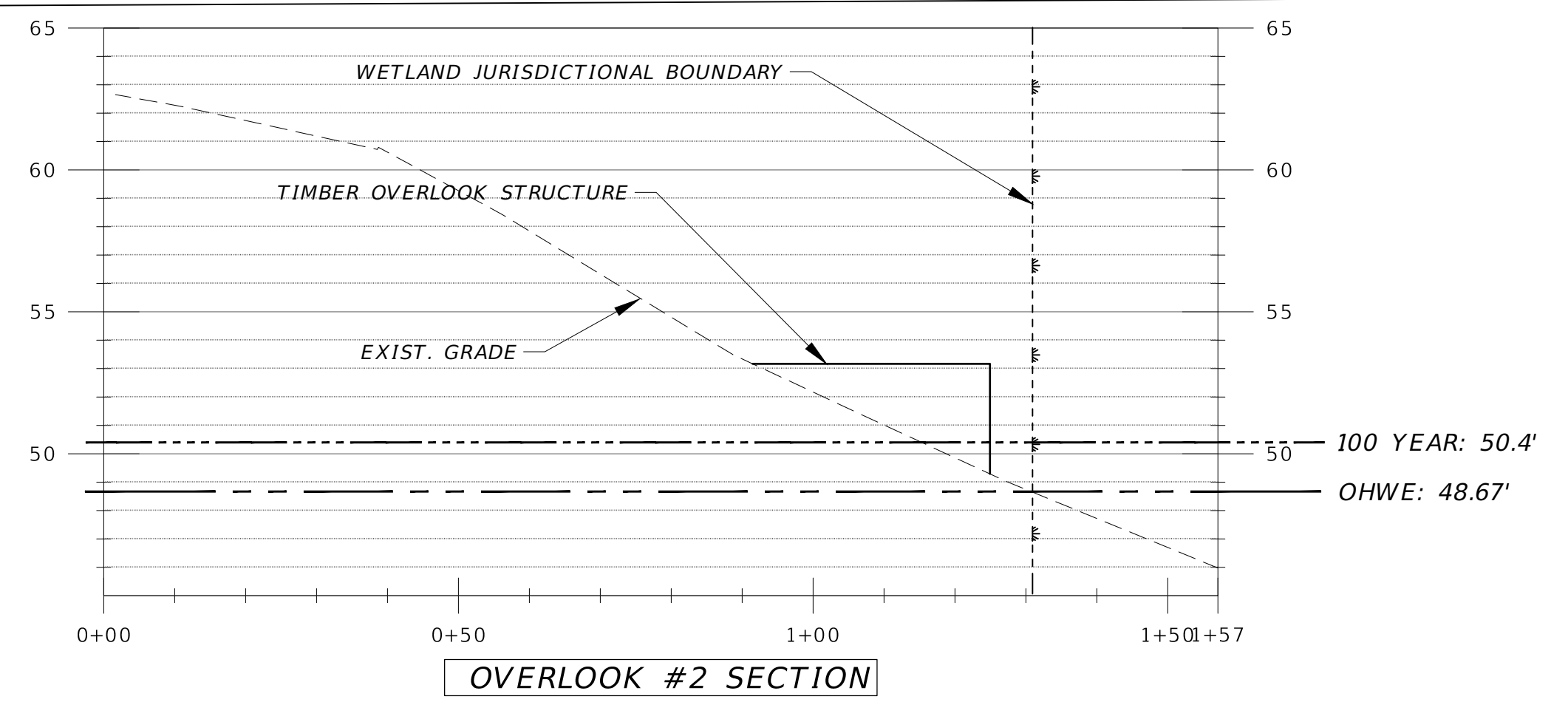
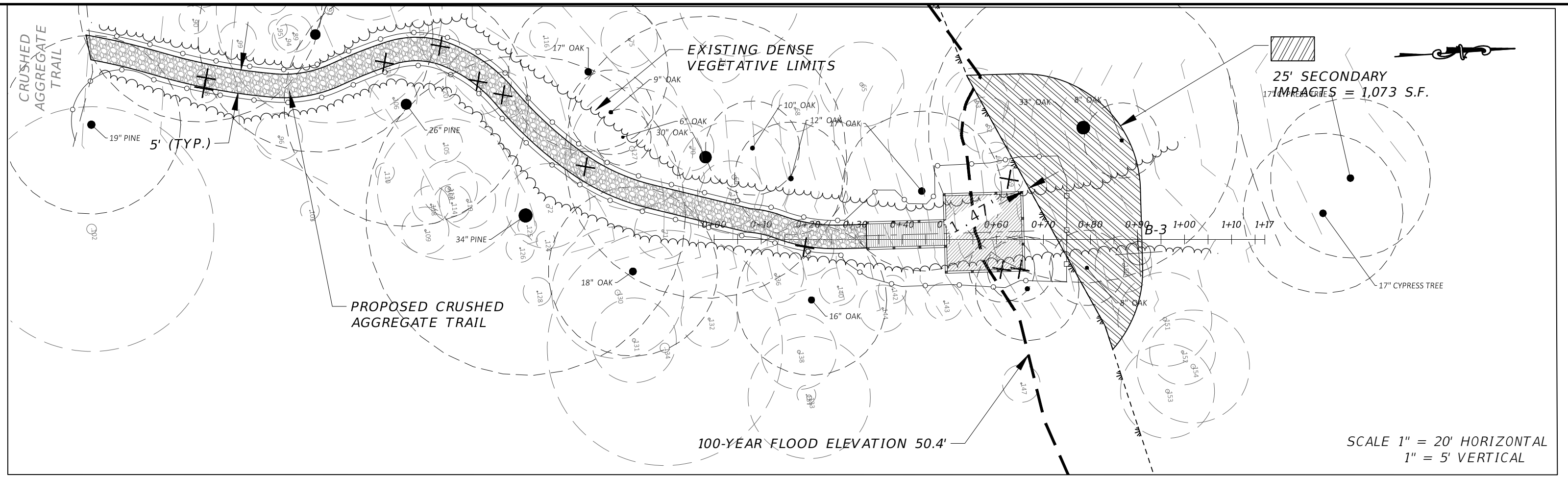
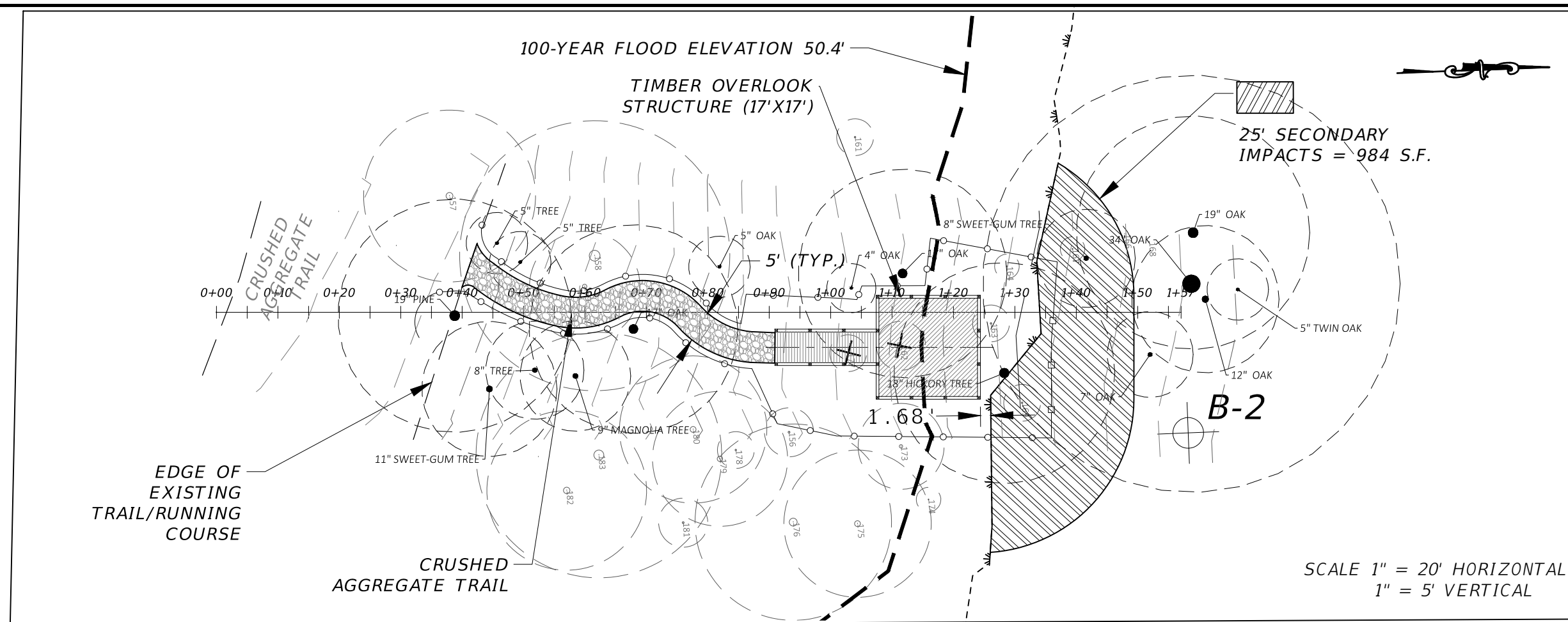
**UTILITY PLAN AND PROFILE APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

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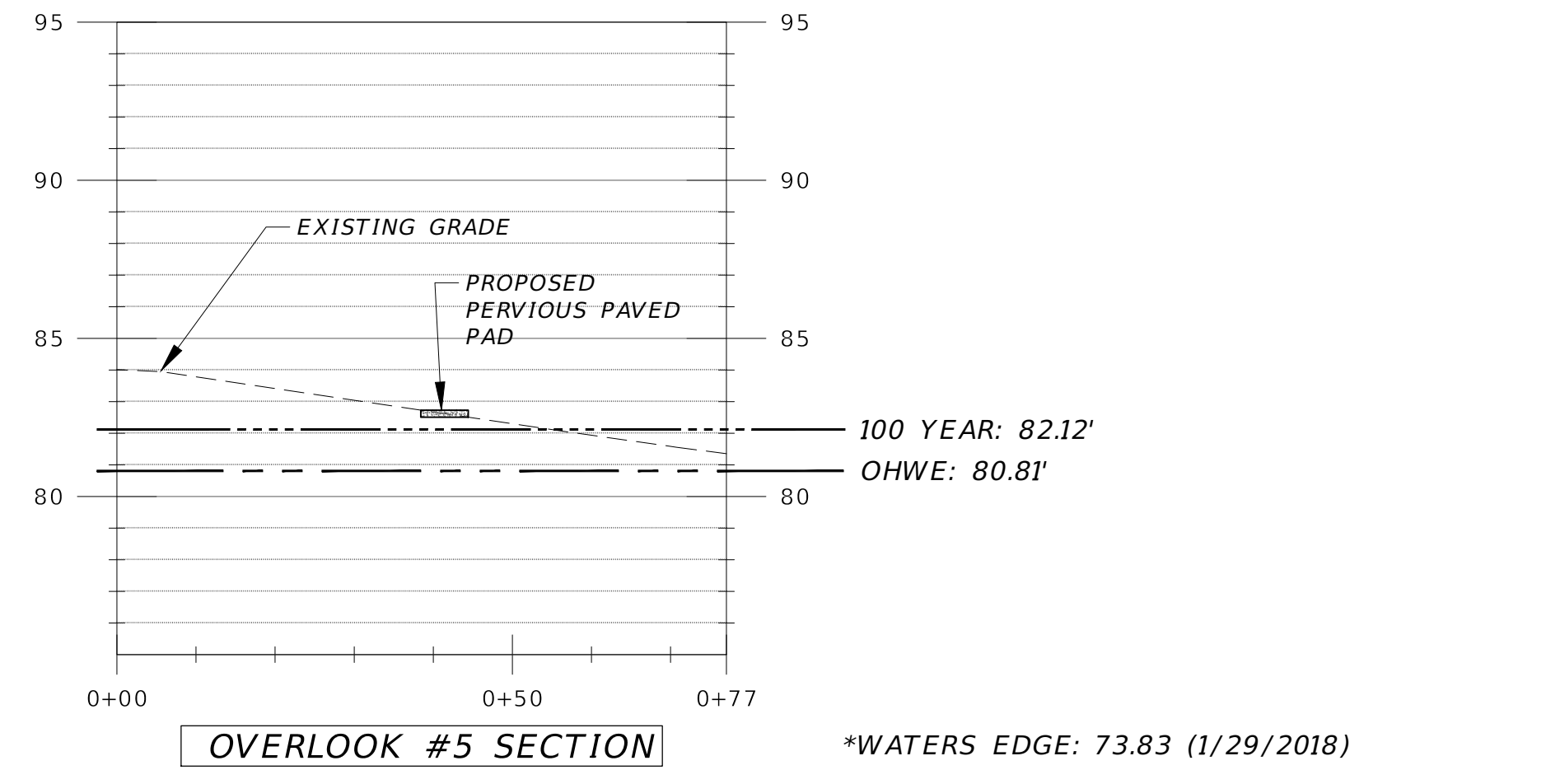
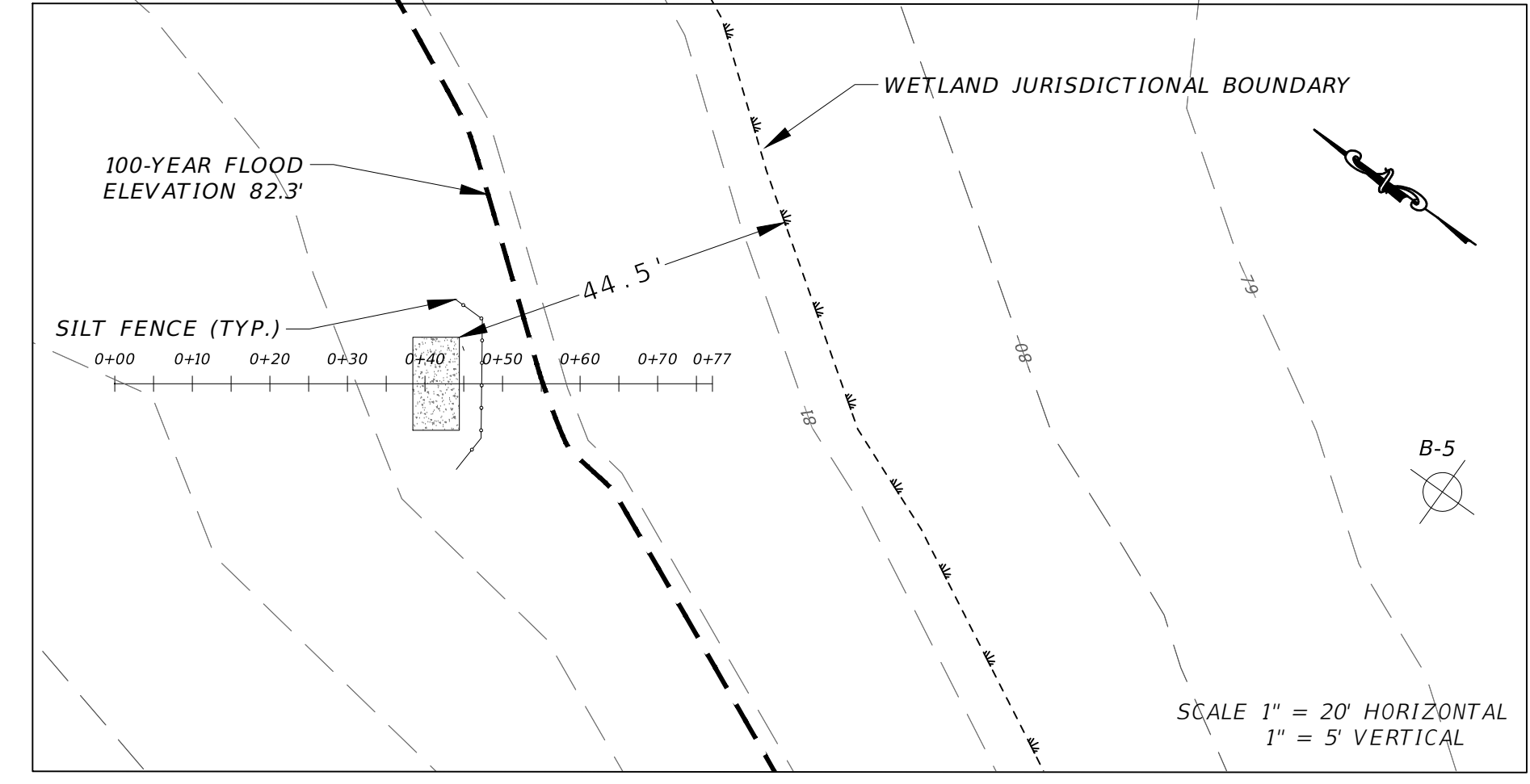
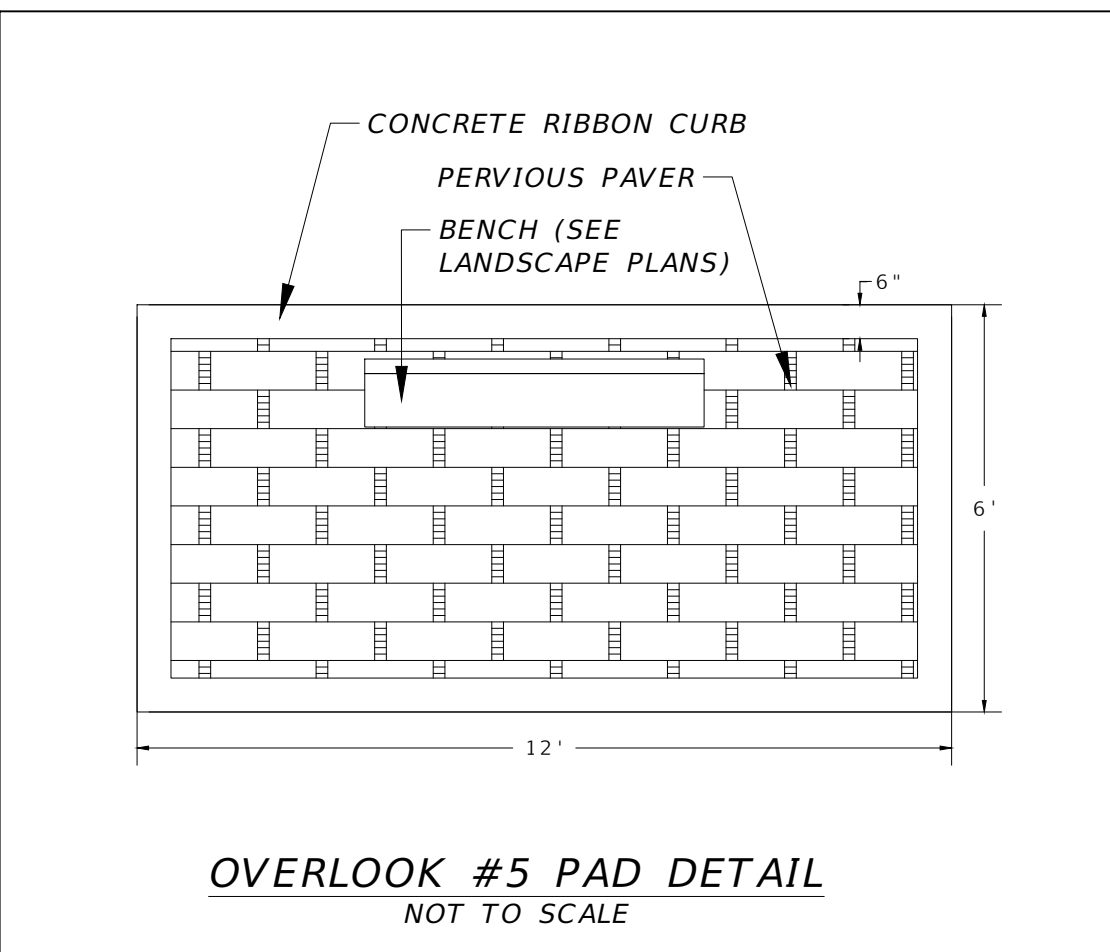
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BENJAMIN LENNON, P.E.  
Florida Engineer #78674  
PROJECT NO.: 15-0513.004  
SCALE: AS SHOWN  
DATE: 10/8/2019  
DRAWING: 14

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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



NO.	DATE	DESCRIPTION	BY

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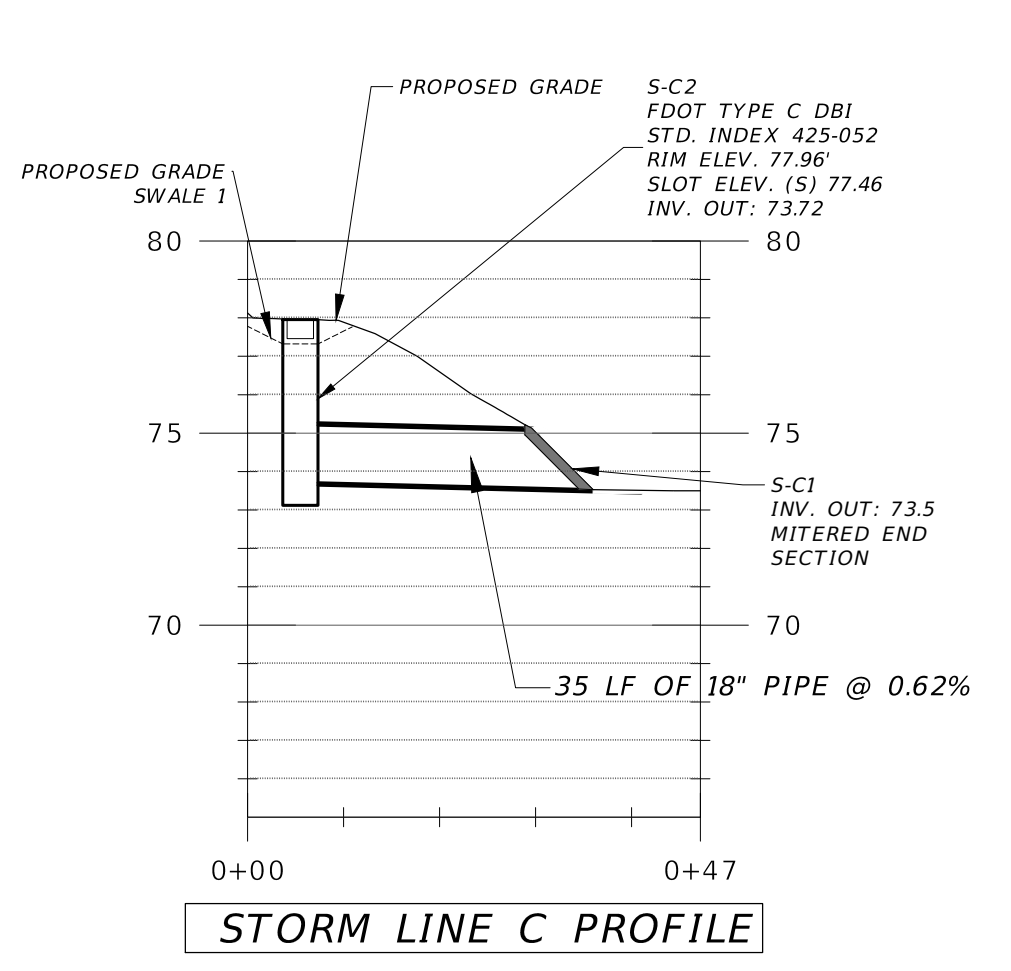
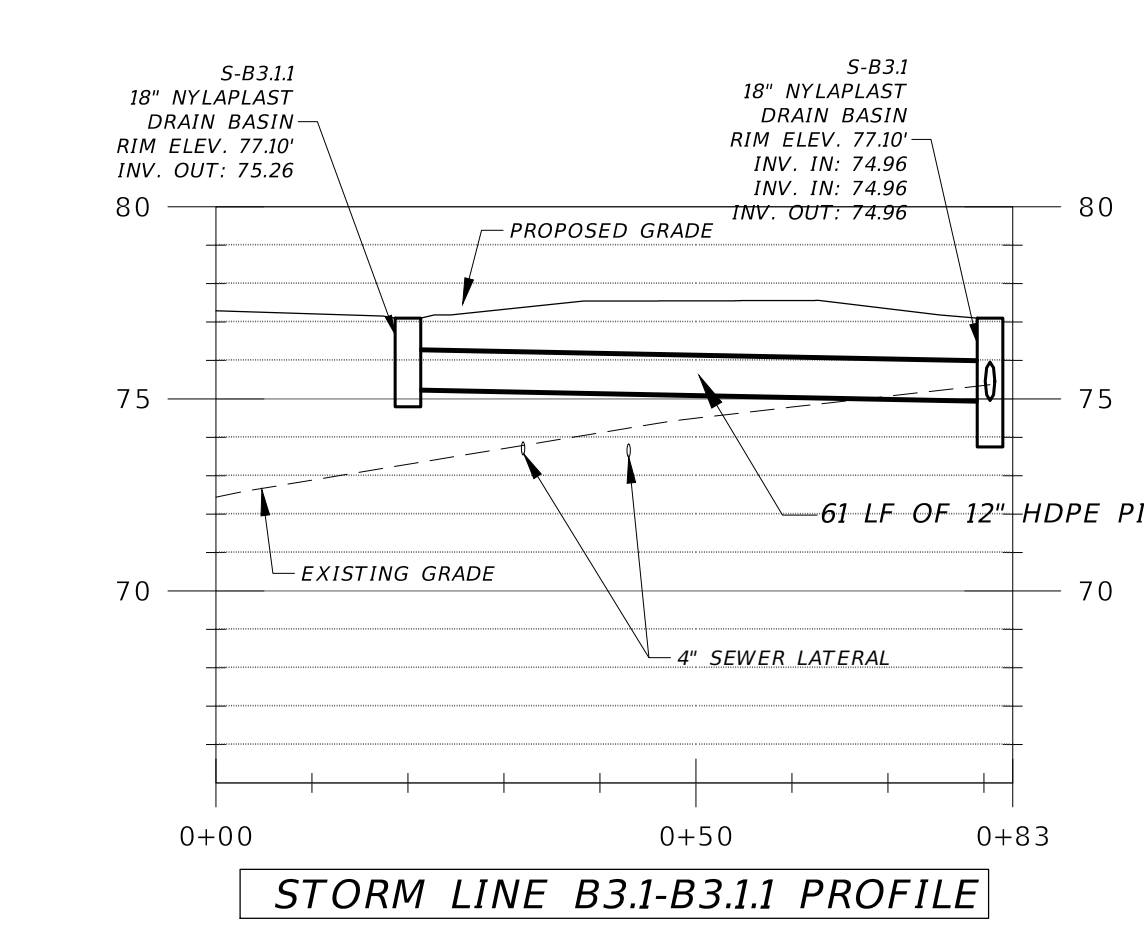
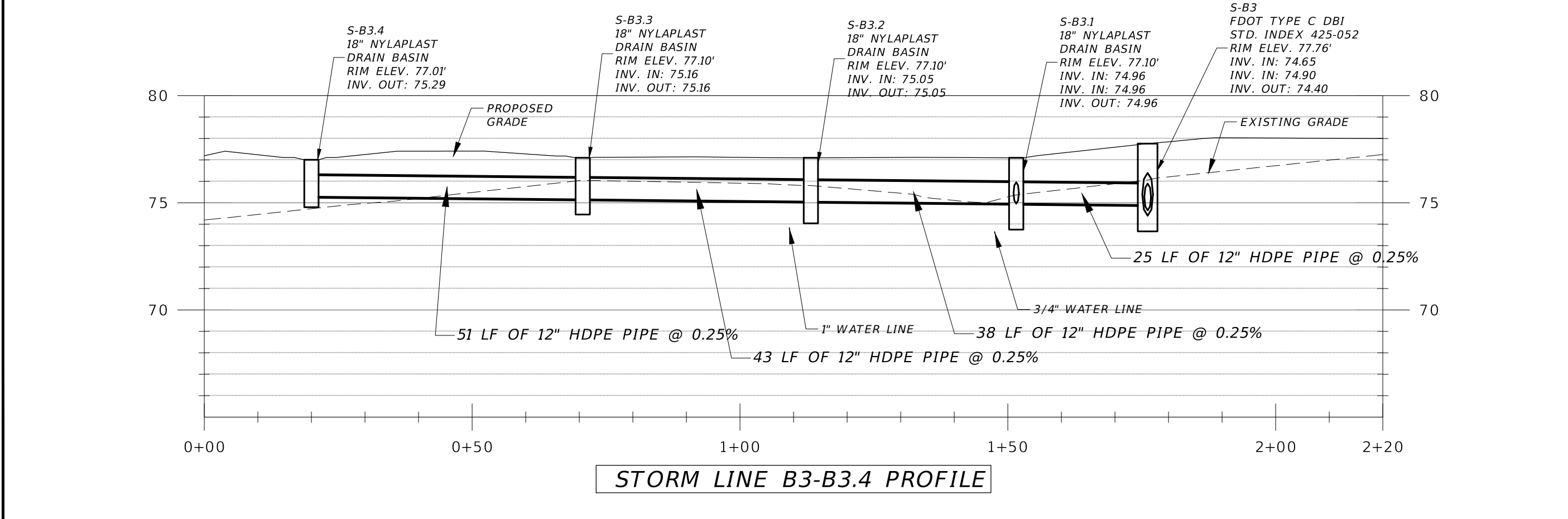
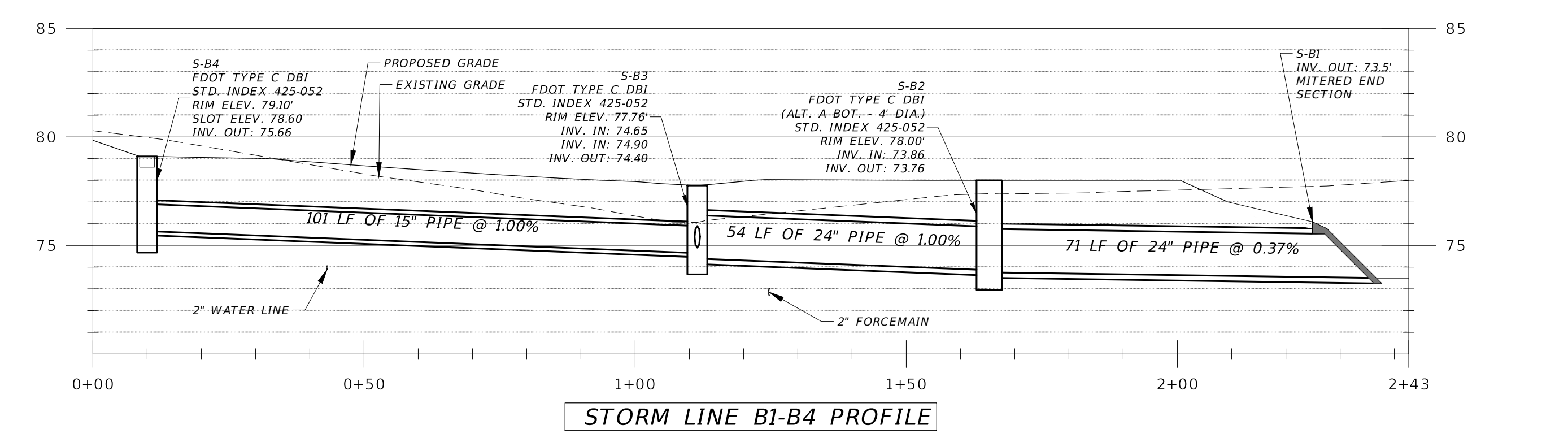
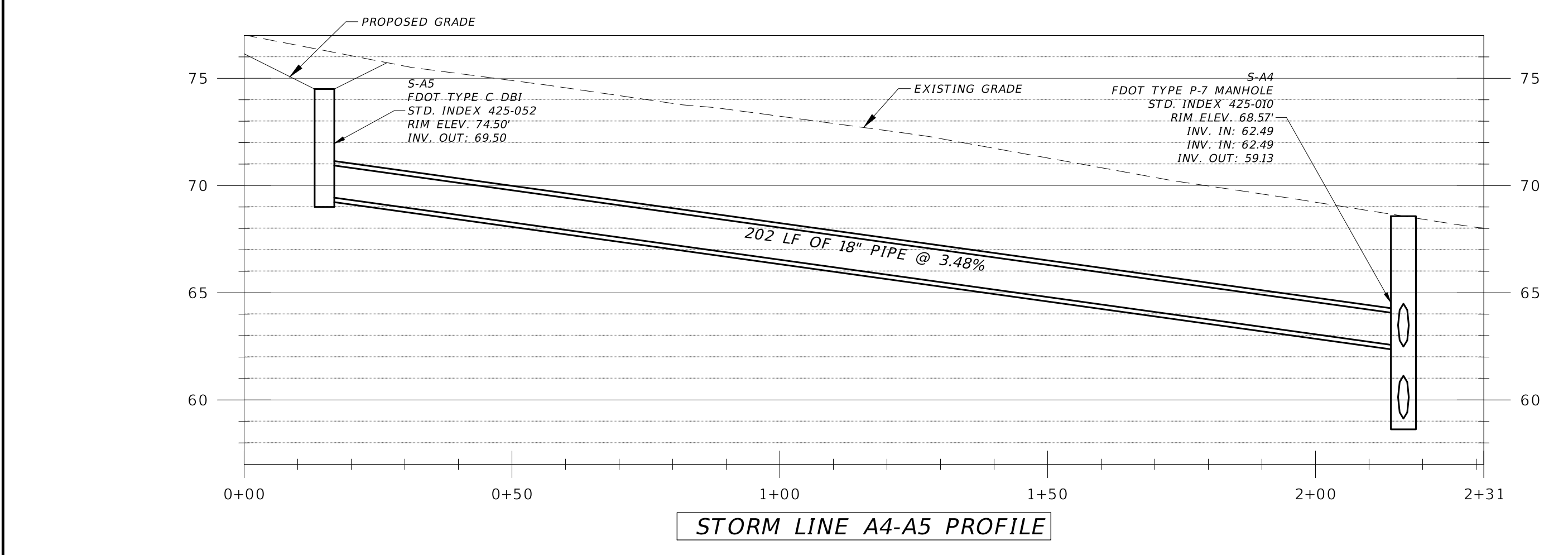
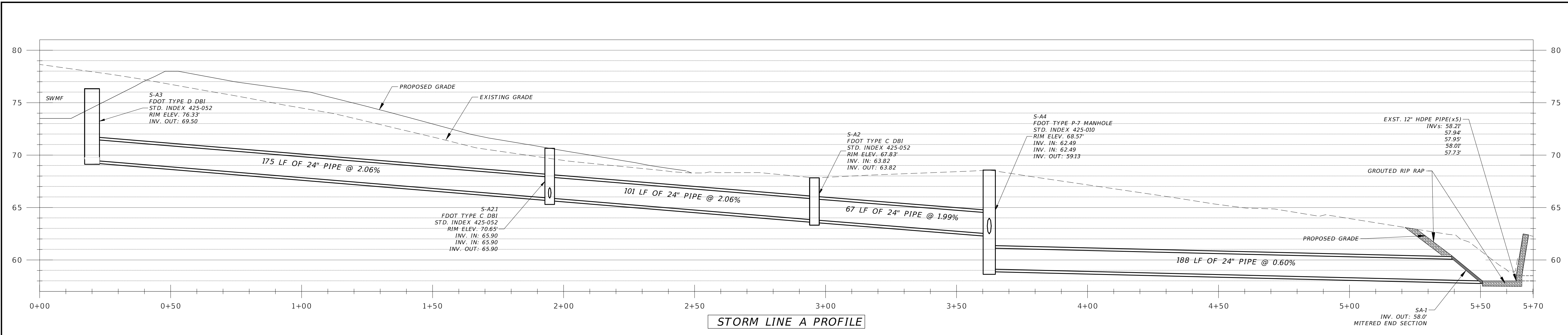
SCENIC OVERLOOKS NO. 2-5 PLAN AND PROFILE APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS

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Florida Engineer #78674  
PROJECT NO.: 15-0513.004  
SCALE: AS SHOWN  
DATE: 10/8/2019  
DRAWING: 15







NOTE: ALL TYPE C DBI'S TO HAVE STEEL GRATES.

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

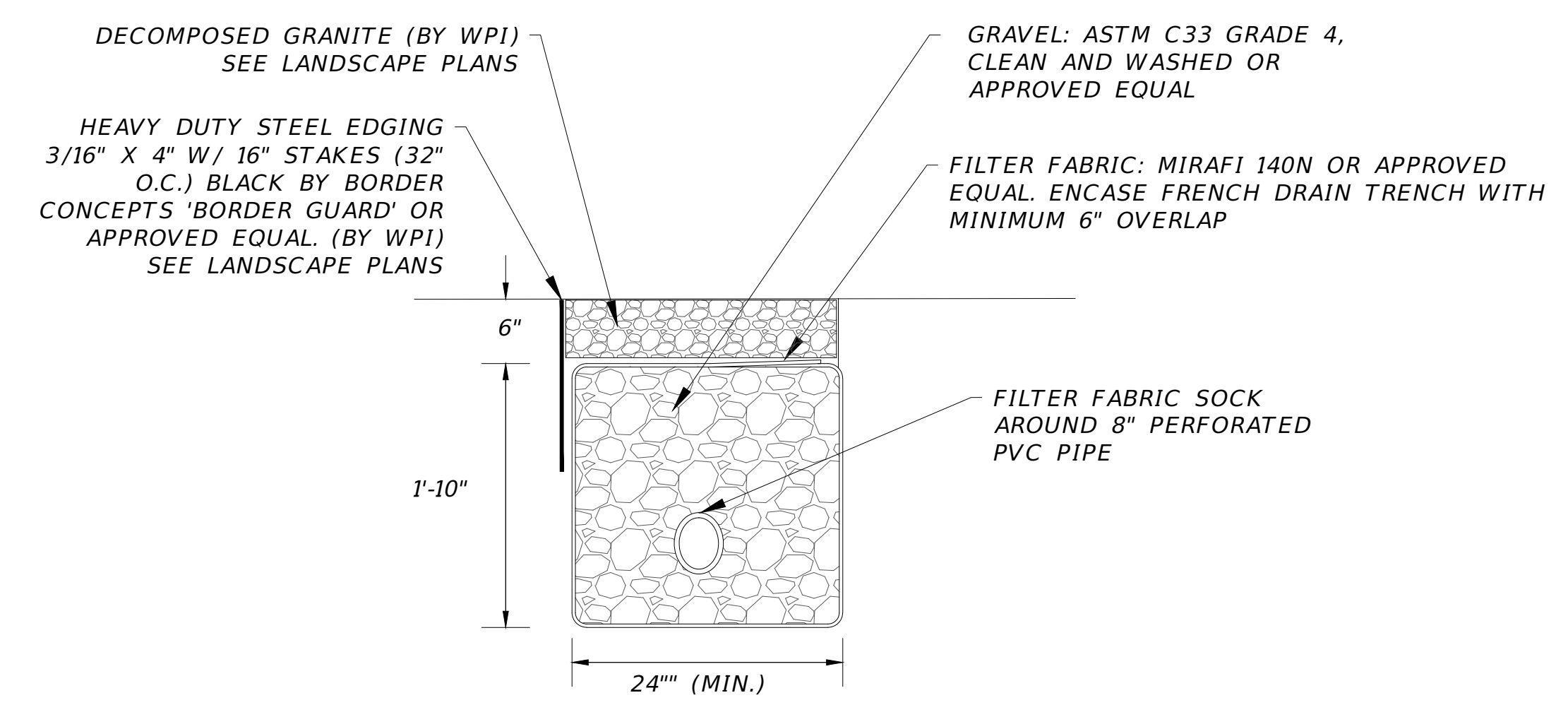
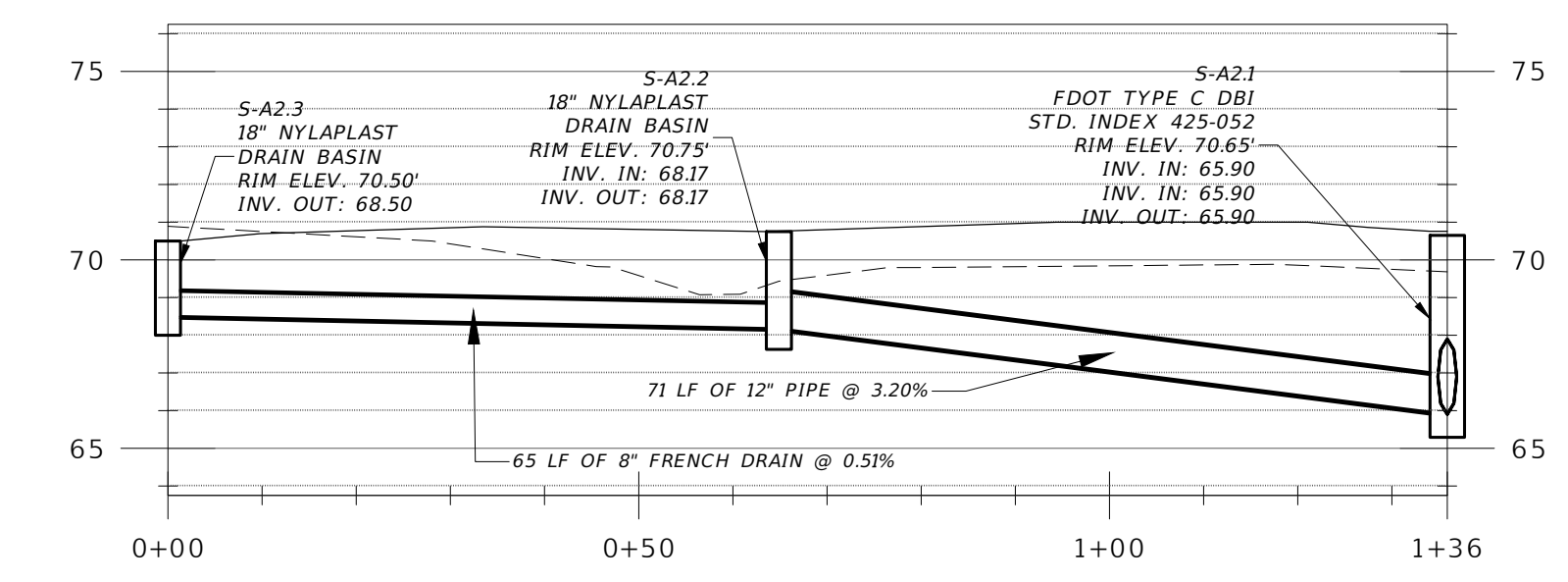
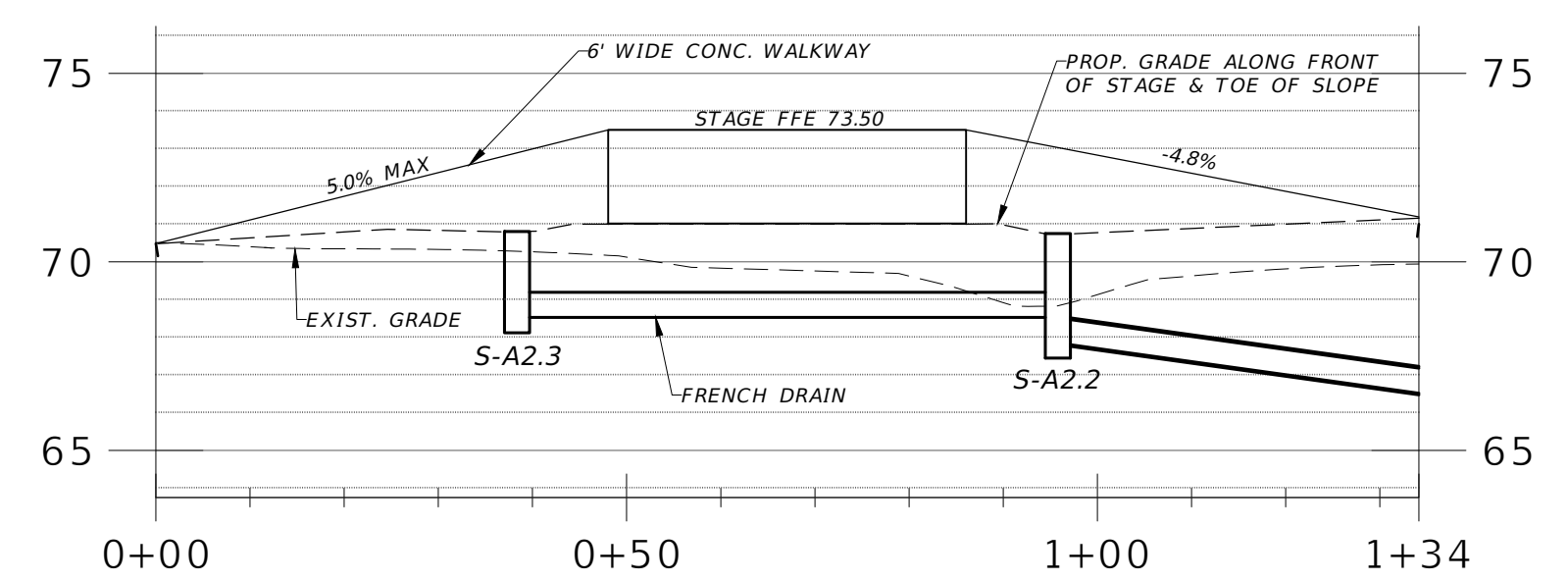
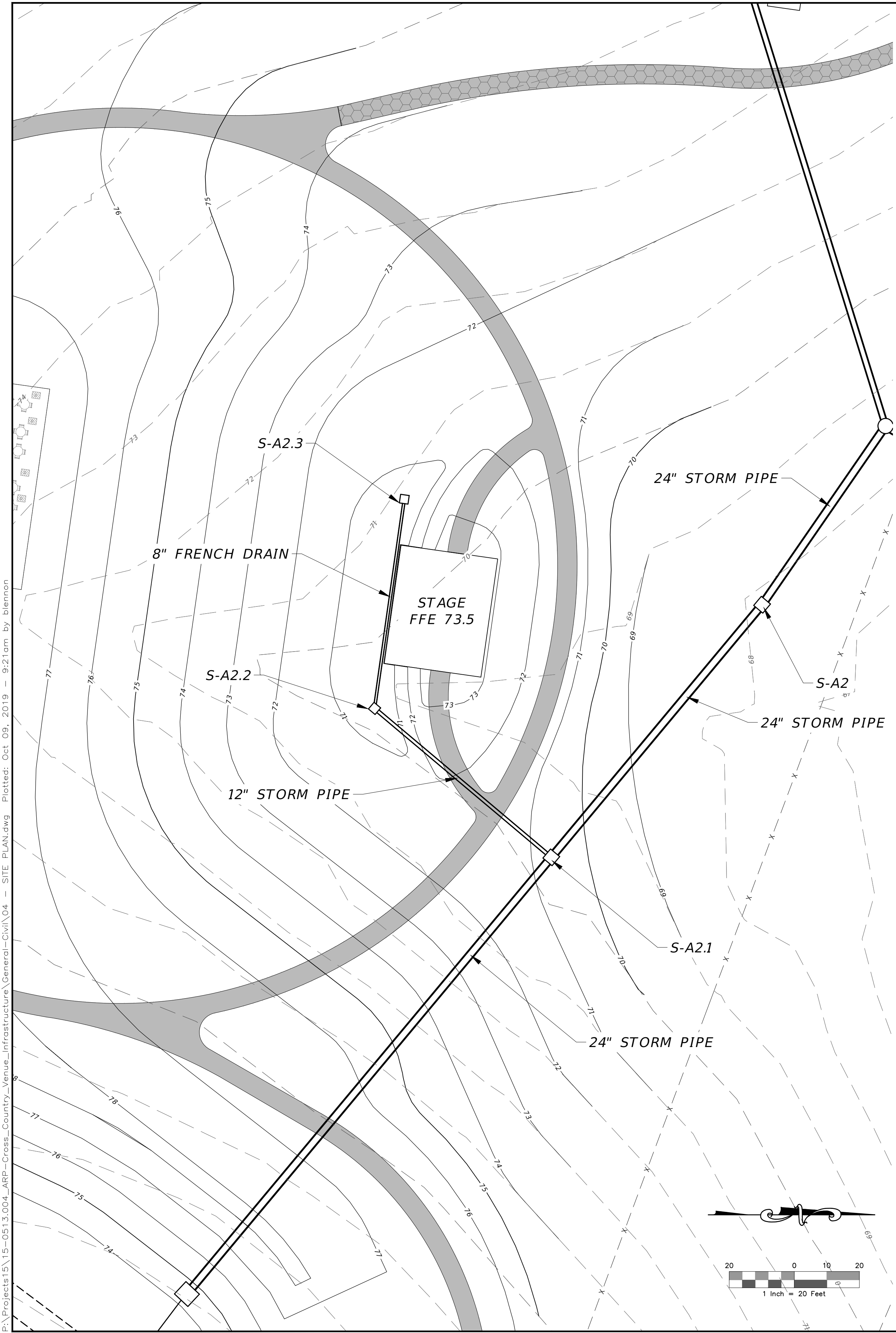
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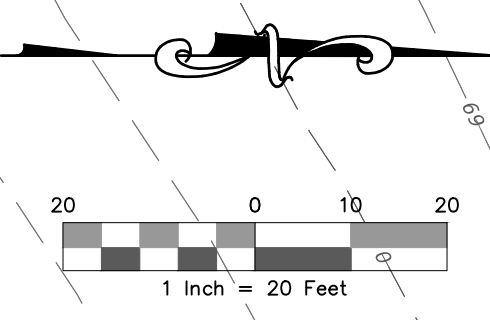
**DRAINAGE PLAN AND PROFILE**  
APALACHEE REGIONAL PARK  
CROSS COUNTRY VENUE  
INFRASTRUCTURE IMPROVEMENTS

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

BENJAMIN LENNON, P.E.  
Florida Engineer #78674  
PROJECT NO.: 15-0513.004  
SCALE: AS SHOWN  
DATE: 10/08/2019  
DRAWING: 17



**FRENCH DRAIN**  
N. T. S.



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

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STAGE PLAN AND PROFILES  
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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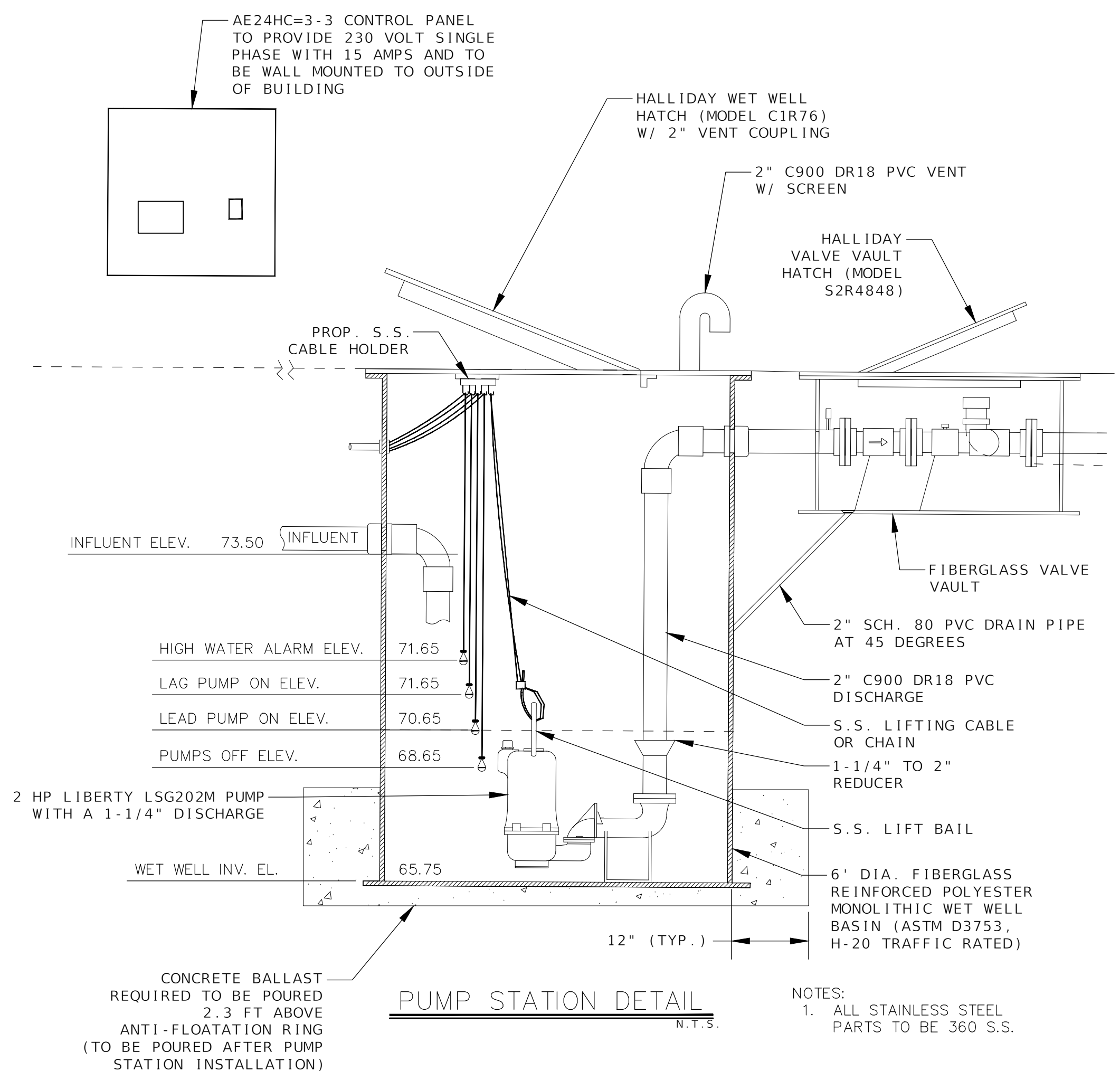
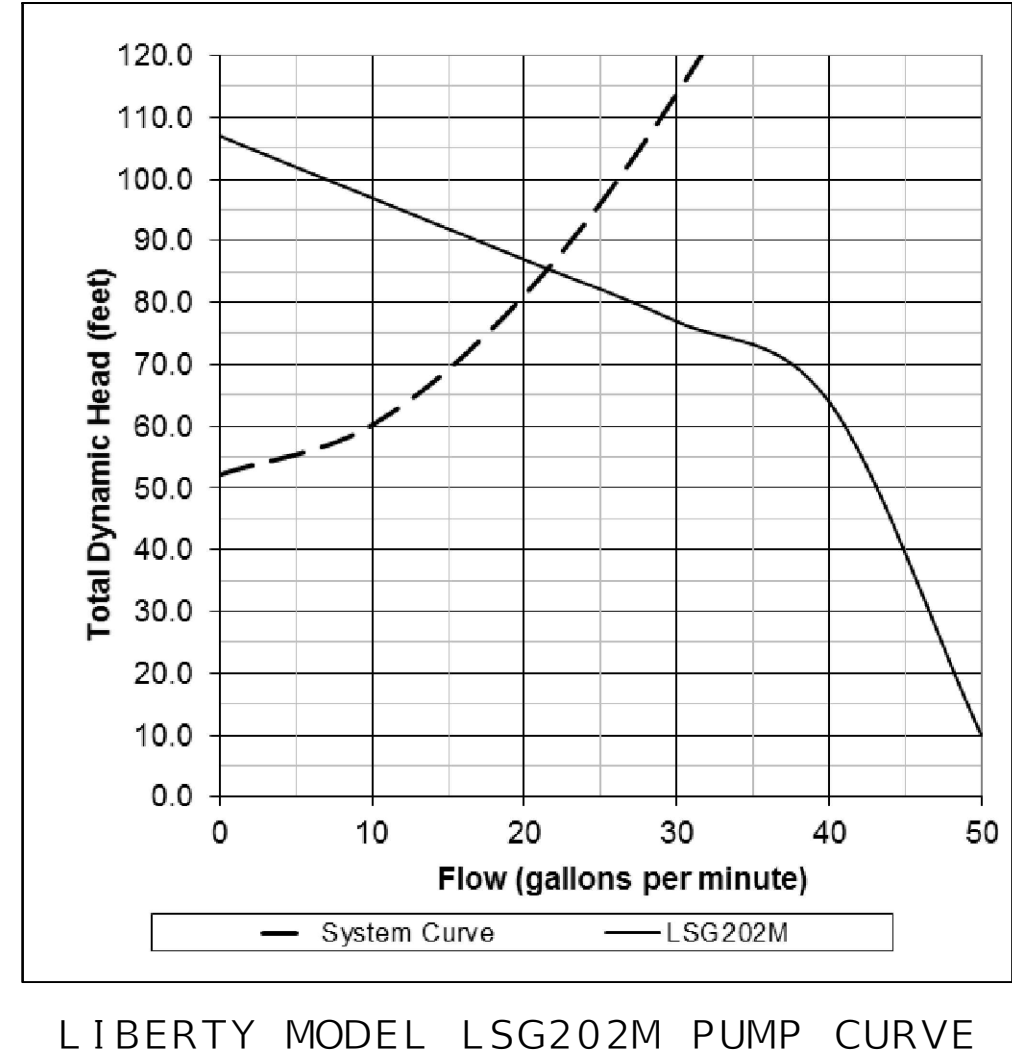


**LIBERTY LSG202M PUMP DETAILS**

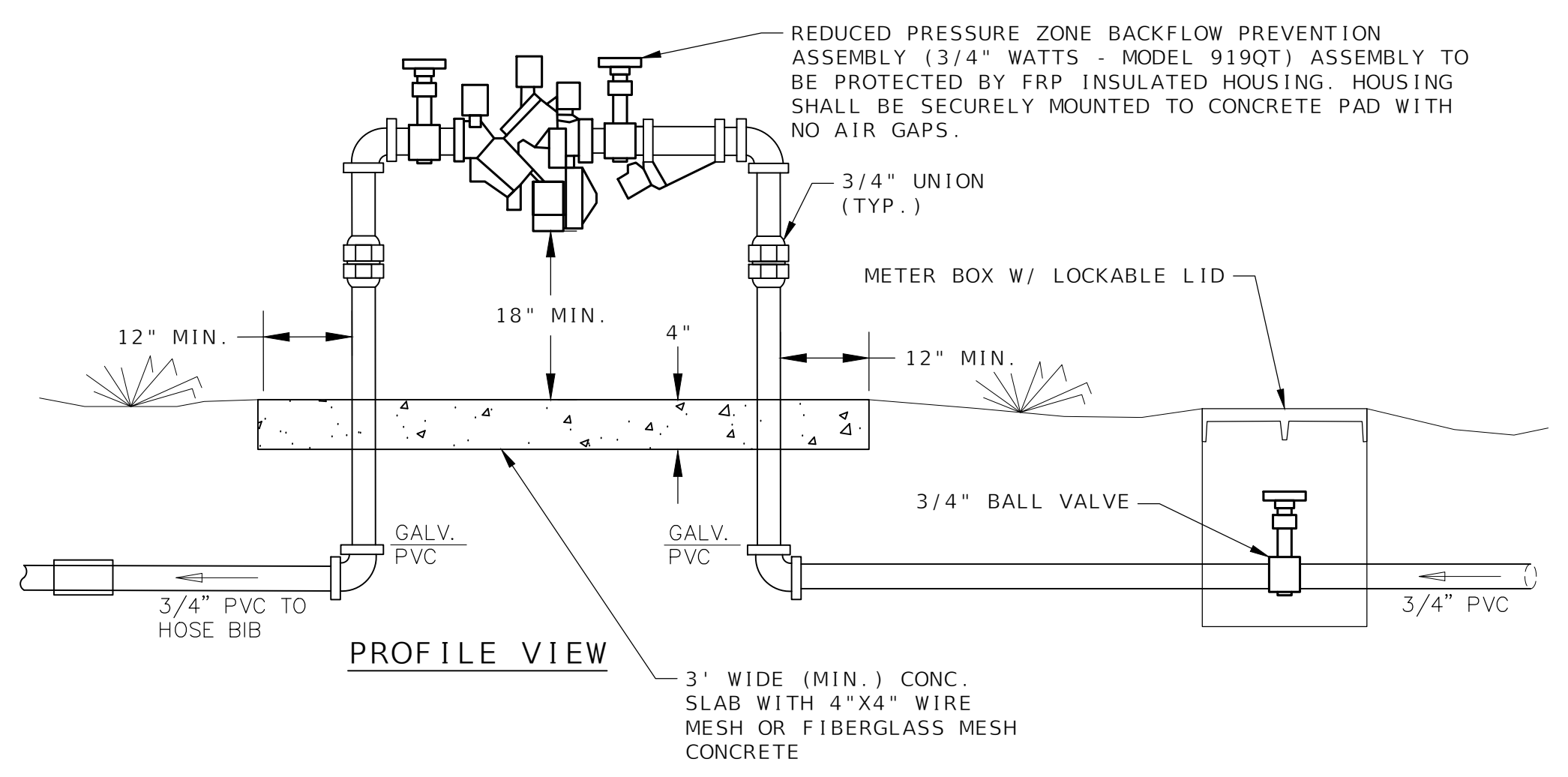
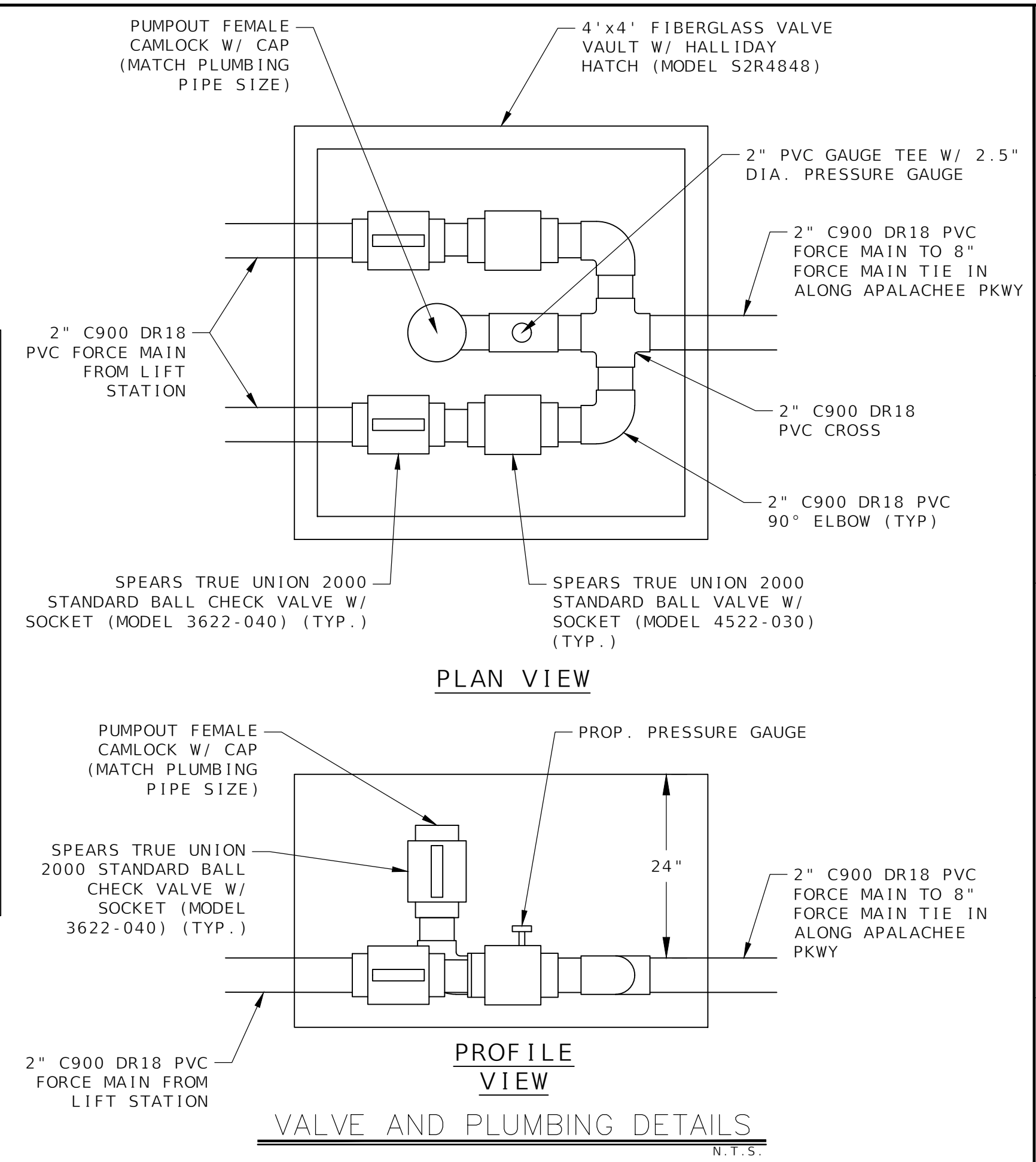
HORSEPOWER	2
RPM	3450
PHASE	1
VOLT	230
AMPS	15

**LIFT STATION DETAILS TABLE**

TOP OF LIFT STATION ELEV.	78.00 Ft
BATHROOM GRAVITY INVERT	73.50 Ft
EMERGENCY STORAGE DEPTH	3.15 Ft
HIGH LEVEL ALARM ELEV.	71.65 Ft
LAG PUMP ON ELEV.	71.65 Ft
LEAD PUMP ON ELEV.	70.65 Ft
BOTH PUMPS OFF ELEV.	68.65 Ft
BOTTOM OF LIFT STATION ELEV.	65.75 Ft
DEPTH OF LIFT STATION	12.25 Ft
DIAMETER OF LIFT STATION	6 Ft
PUMP RATE	22.5 GPM
TDH	86 Ft



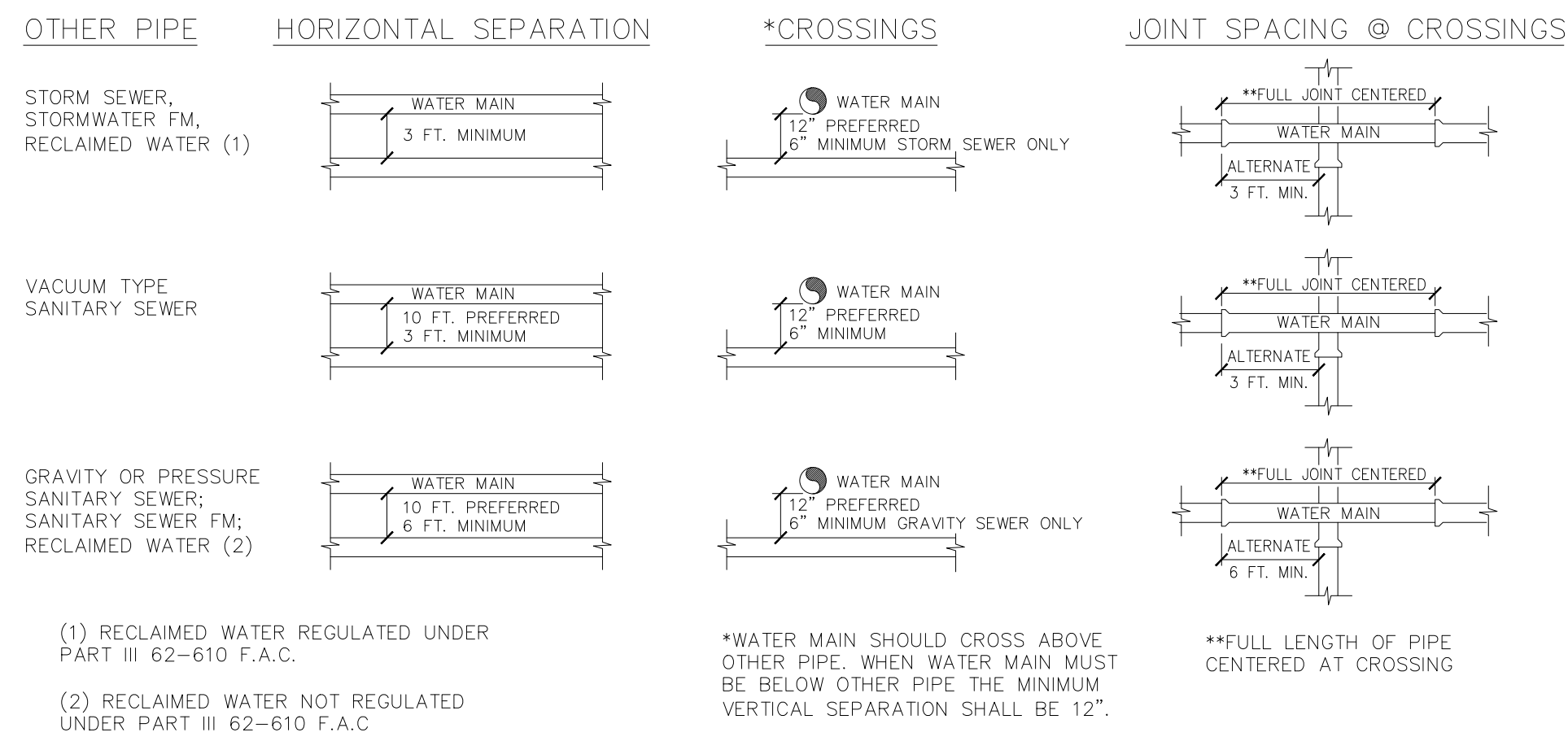
NOTES:  
1. ALL STAINLESS STEEL PARTS TO BE 360 S.S.



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REVISIONS	NO.	DATE	DESCRIPTION	BY			
DESIGNED BY	MHB	DRAWN BY	JMM	CHECKED BY	BRL	APPROVED BY	BRL
<p><b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b>                  2280 MICCOSUKEE ROAD                  TALLAHASSEE, FL 32308                  PHONE (850) 606-1500                  FAX (850) 606-1501</p> <p><b>UTILITY DETAILS</b>                  APALACHEE REGIONAL PARK                  CROSS COUNTRY VENUE                  INFRASTRUCTURE IMPROVEMENTS</p> <p>DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE</p>							
<p><b>DRMP</b>                  ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS                  Certificate of Authorization No. 2648                  2882 Remington Green Circle                  Tallahassee, Florida 32308                  Phone: 850.562.9600 WWW.DRMP.COM</p>							
<p>BENJAMIN LENNON, P.E.                  Florida Engineer #78674                  PROJECT NO.: 15-0513.004                  SCALE: AS SHOWN                  DATE: 10/08/2019                  DRAWING: 20</p>							

### FDEP PIPE SEPARATION DETAIL

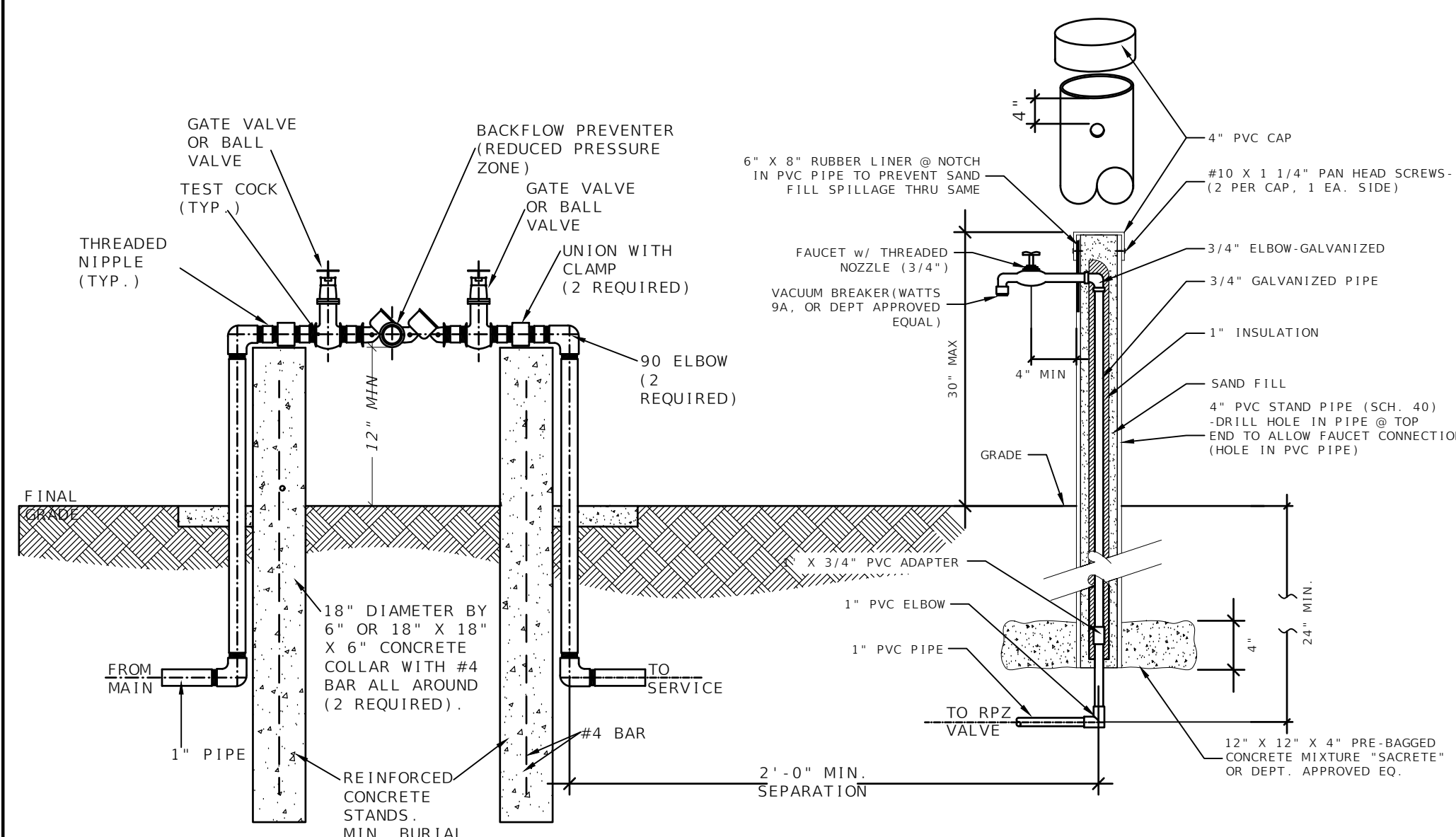


### LOCATION OF PUBLIC WATER SYSTEM MAINS

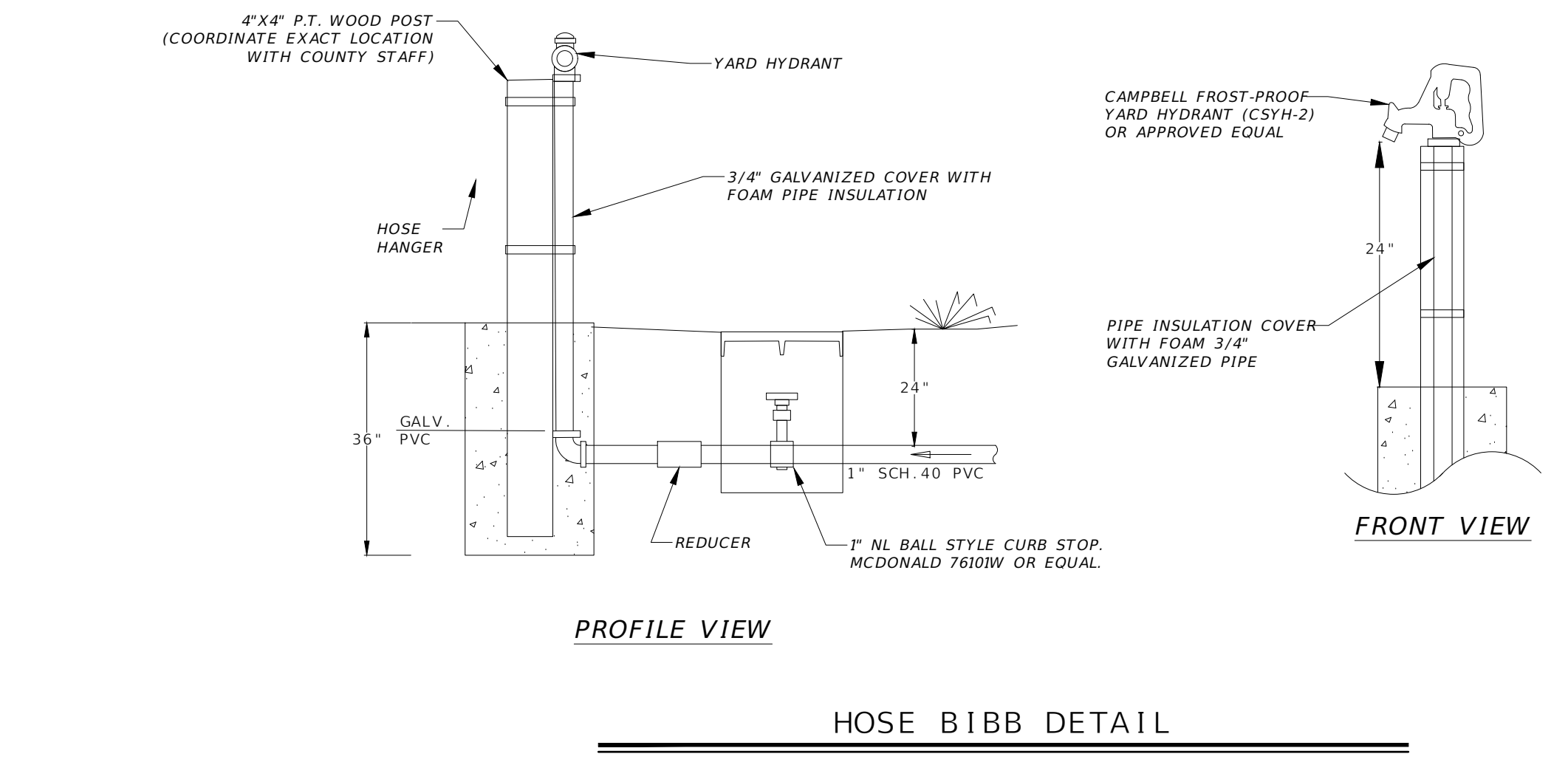
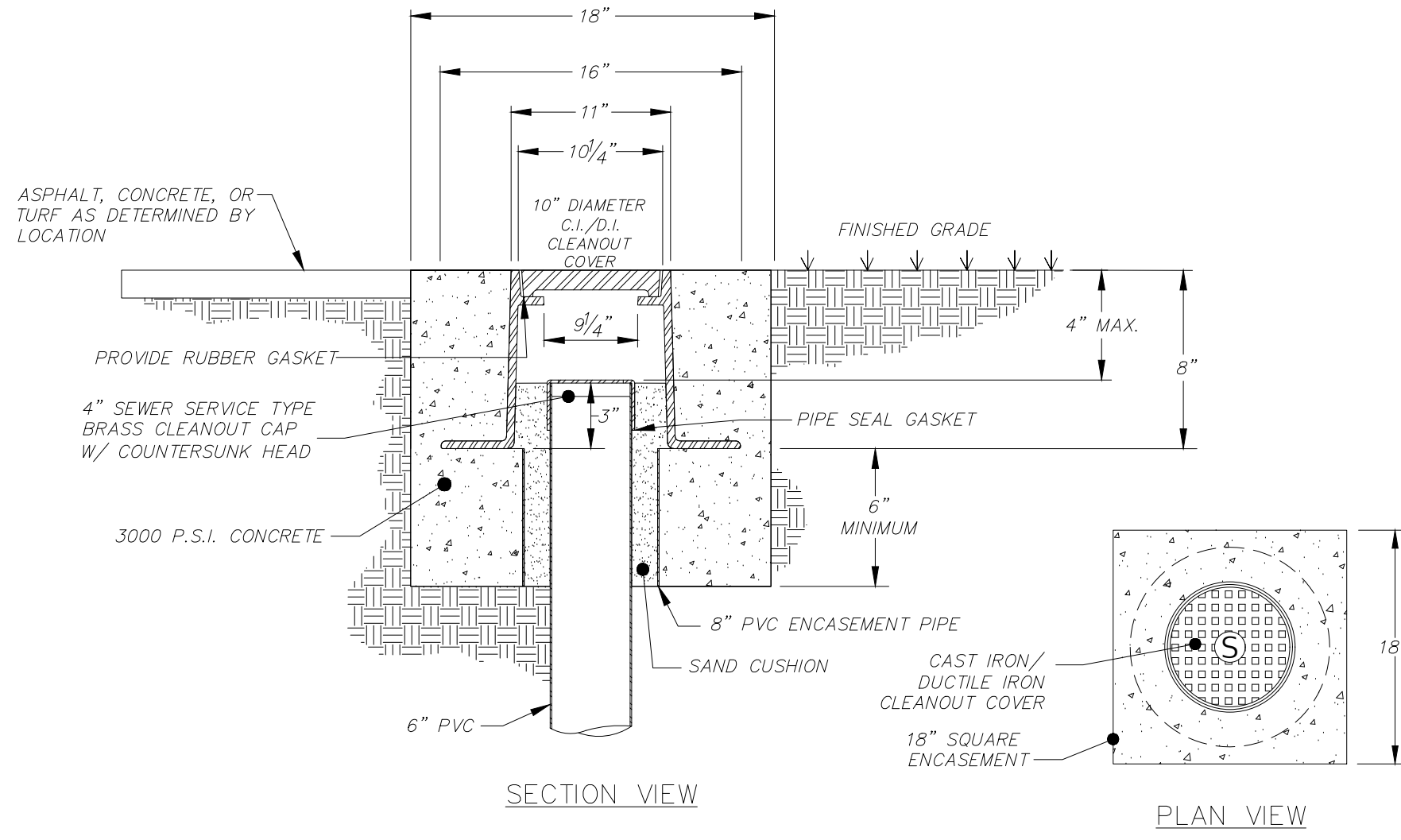
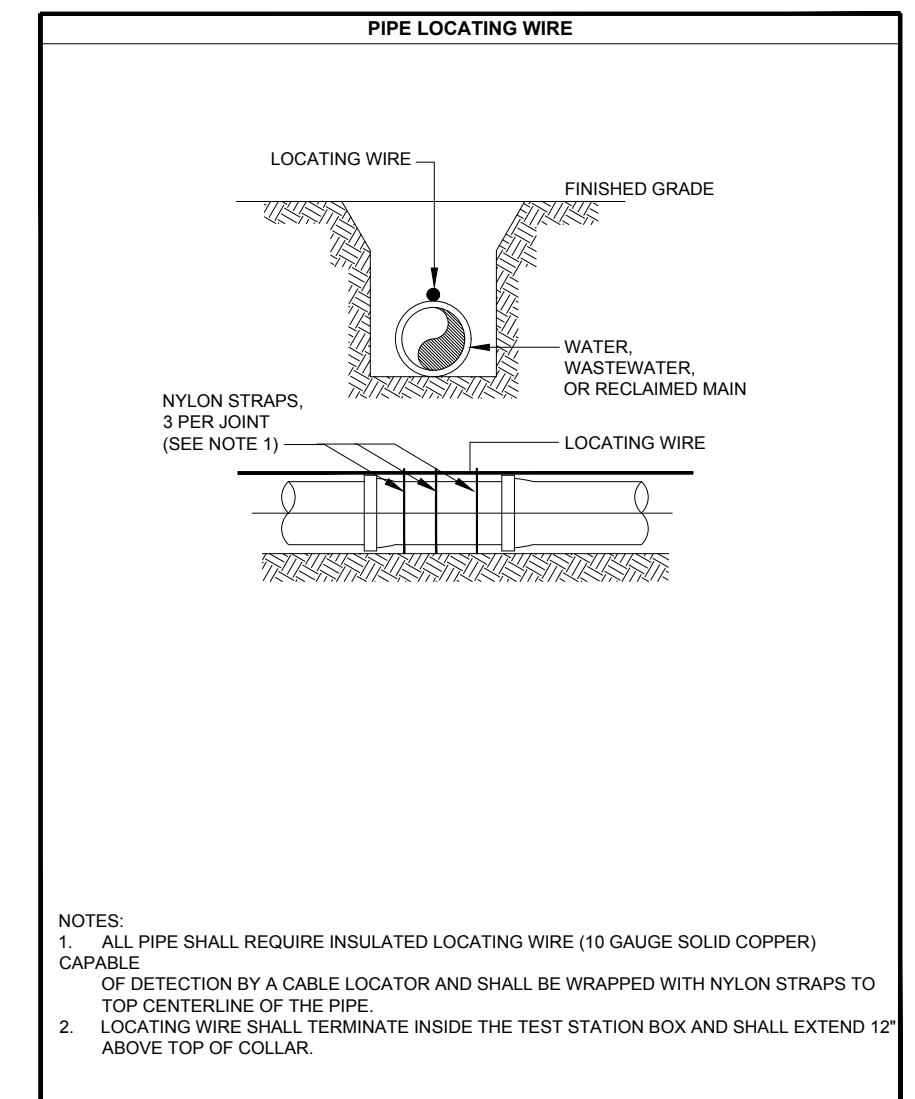
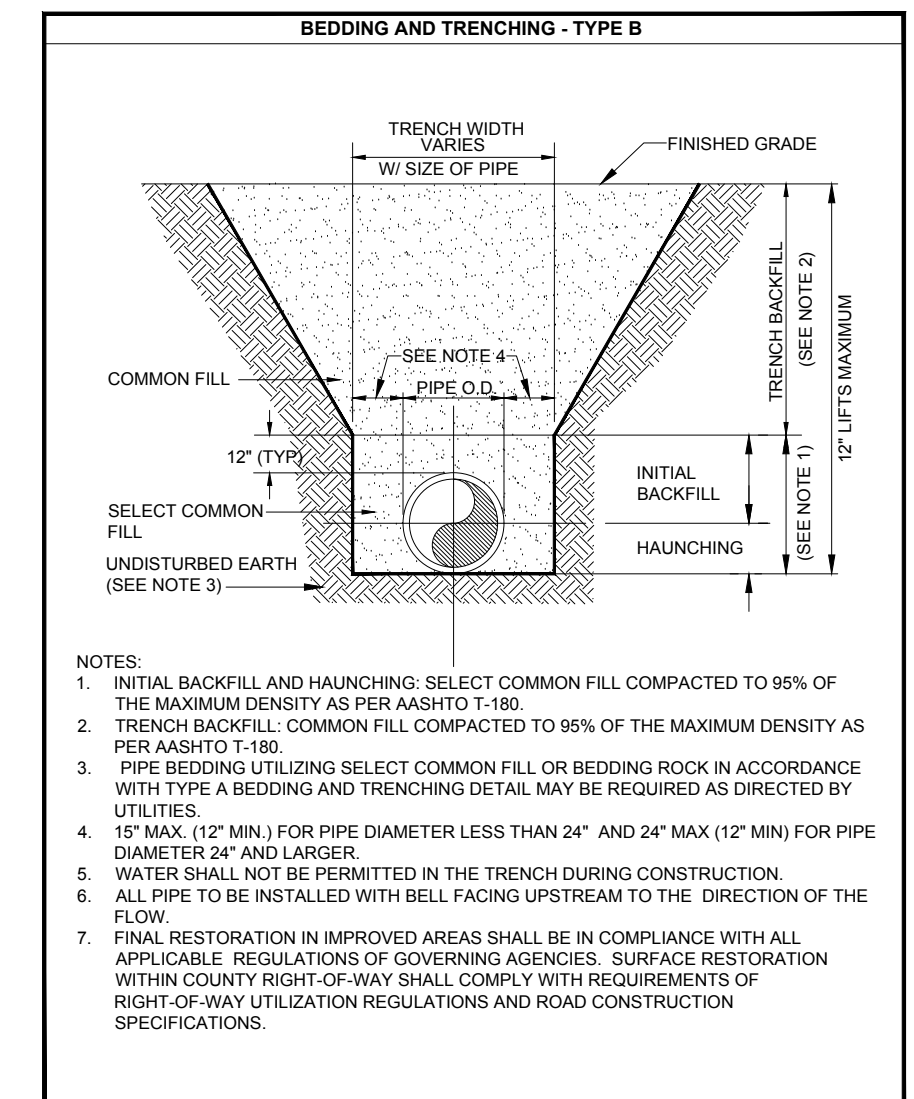
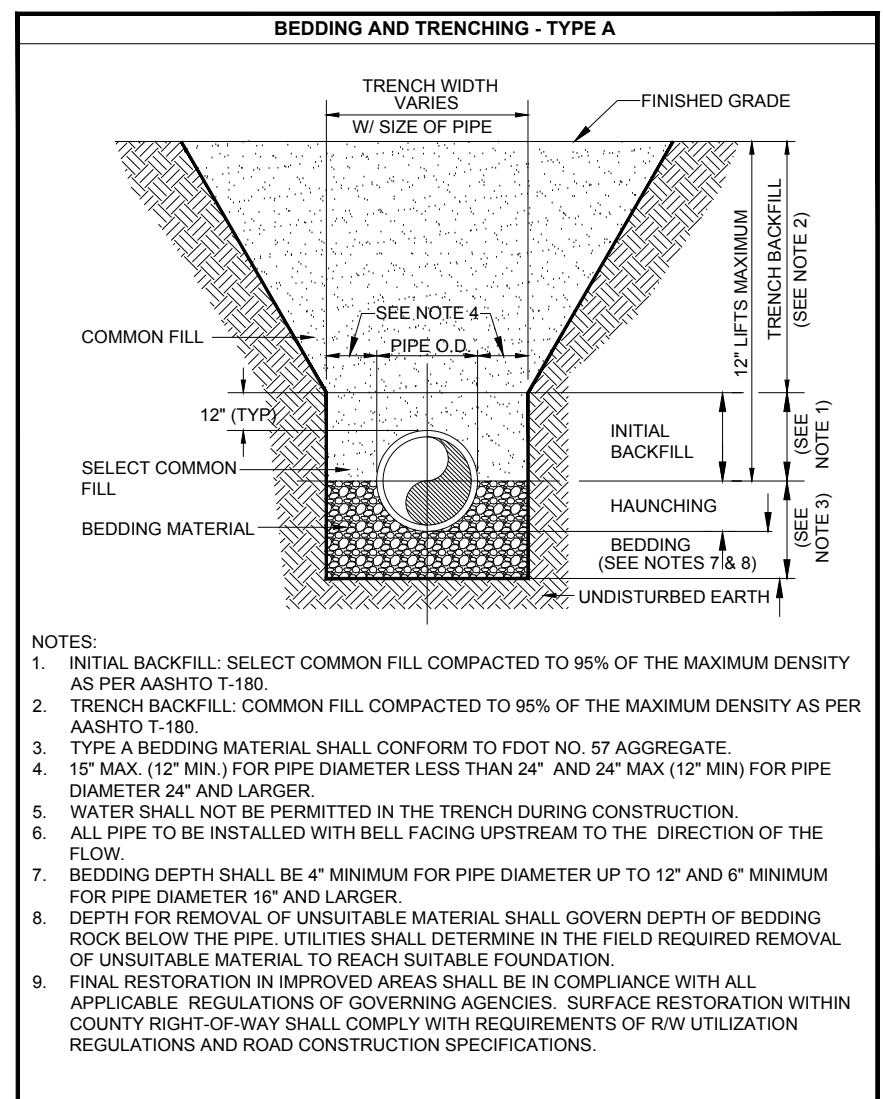
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THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.).

### RPZ & WATER STAND (WASH DOWN) - TYPICAL



- NOTES:
- ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS, 24" BURIAL MIN.
  - BACKFLOW PREVENTER SHALL BE SERIES 009 QT, 1", AS MANUFACTURED BY WATTS
  - HOSE BIBB SHALL BE NO. HB-1, AS MANUFACTURED BY WATTS, WITH BUILT-IN VACUUM BREAKER.



REVISIONS	NO.	DATE	DESCRIPTION
DESIGNED BY	MHB		
DRAWN BY	JMM		
CHECKED BY	ERL		
APPROVED BY	ERL		

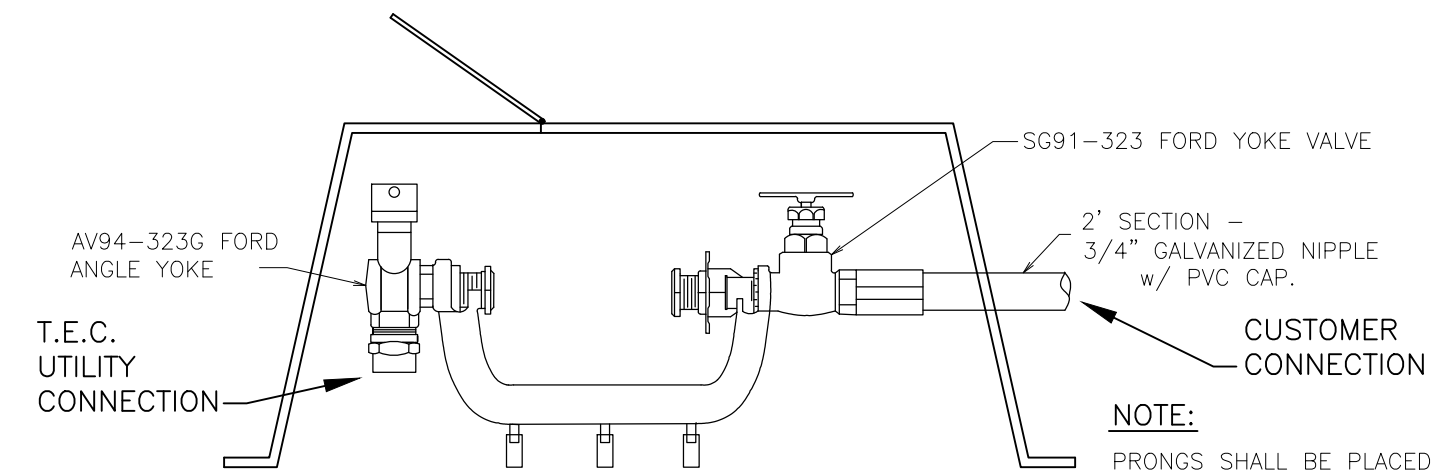
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**UTILITY DETAILS**  
**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

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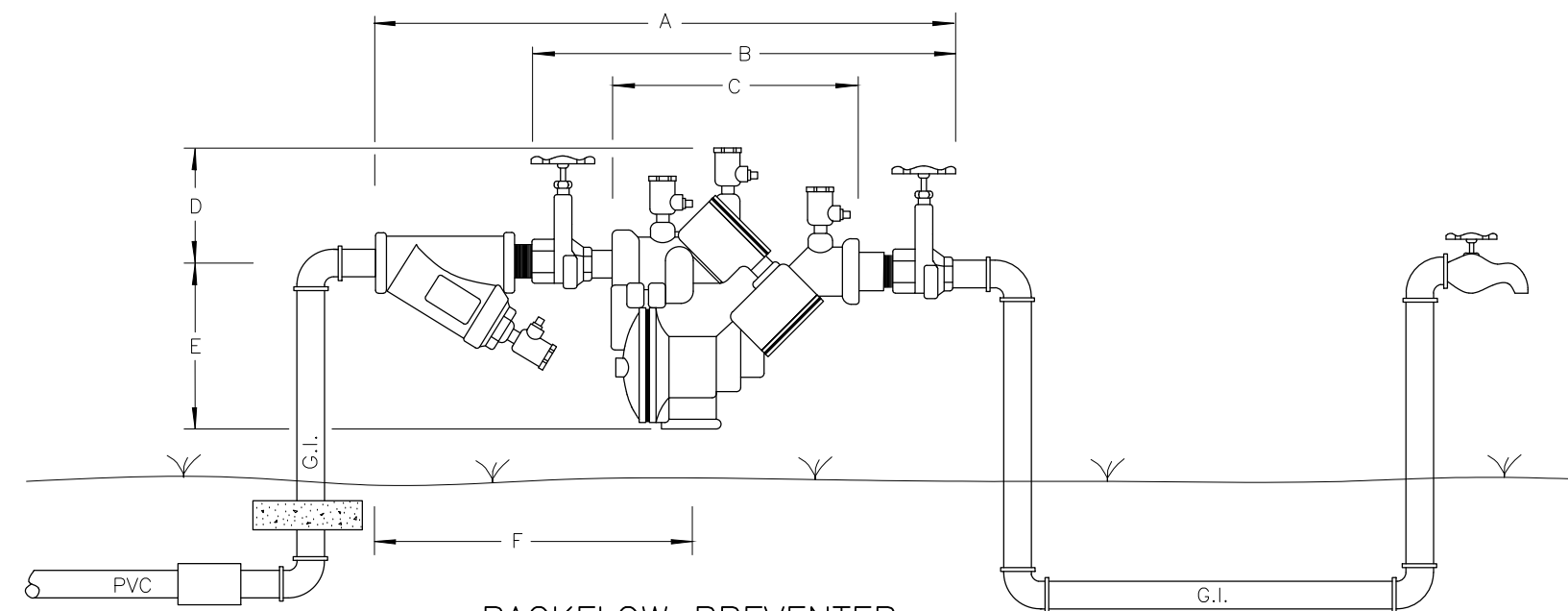
BENJAMIN LENNON, P.E.  
 Florida Engineer #78674  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 10/08/2019  
 DRAWING: 21



**SINGLE YOKE BOX METER CONNECTION**

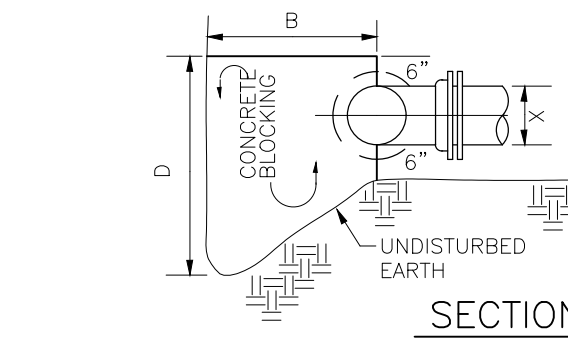
N.T.S. W-8

SIZE	DIMENSIONS (Inches)							Total weight (lbs)		
	A	B	C	D	E	F	G	Width	Less 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"	22 1/8	16 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	16 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

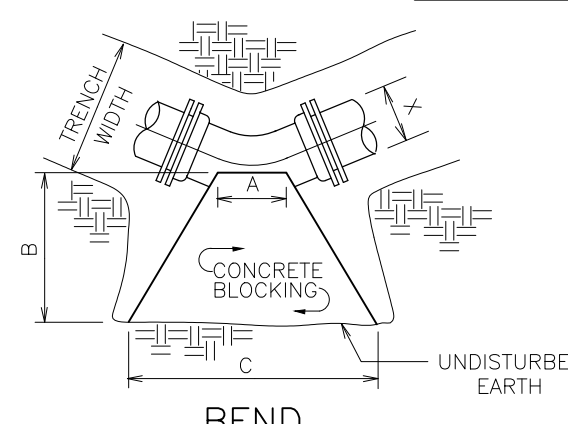


**BACKFLOW PREVENTER**

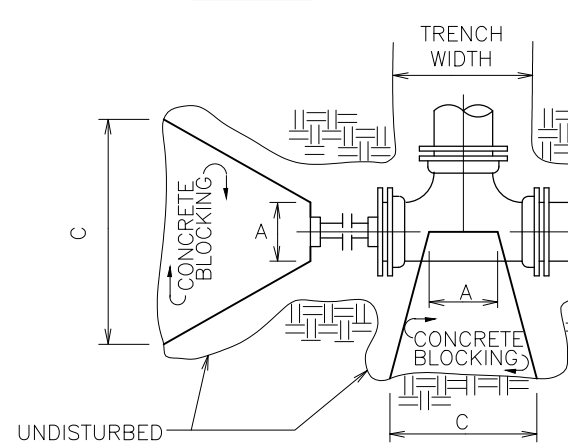
AS SHOWN W-9



**SECTION**



**BEND**



**TEE**

**BLOCKING DETAIL FOR D.I. FITTINGS**

N.T.S. W-10

**CONCRETE BLOCKING DIMENSIONS**

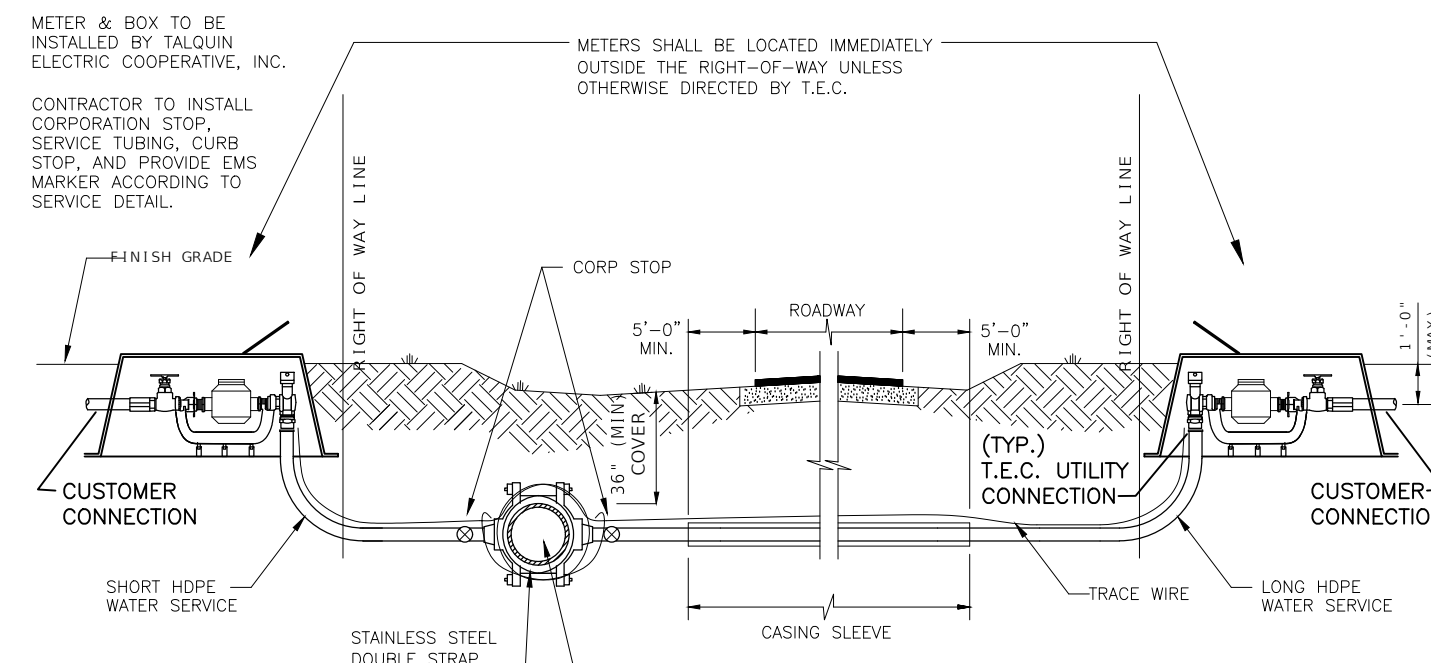
X	A	B	C	D	CU. YD.
TEES - 8" RUN					
12"	14"	2'-6"	3'-9"	3'-0"	0.69
10"	12"	2'-5"	2'-10"	2'-10"	0.48
8"	10"	2'-4"	1'-9"	2'-8"	0.32
6"	8"	2'-3"	1'-3"	2'-6"	0.19
4"	6"	2'-0"	1'-0"	2'-0"	0.07

90° BENDS					
12"	12"	2'-8"	5'-4"	3'-0"	0.91
10"	10"	2'-6"	4'-0"	2'-10"	0.46
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"	6"	2'-2"	0.01

22-1/2° BENDS					
12"	6"	2'-6"	1'-6"	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

PLUGS					
12"	12"	2'-6"	3'-10"	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



**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 18" ON CENTER.
6. ALL SERVICES REQUIRE 36" MINIMUM COVER. ALL LONG SERVICES REQUIRE 36" MIN. COVER UNDER ALL ROADS AND SWALES, AND MUST MAINTAIN MINIMUM SEPARATION BETWEEN OTHER UTILITIES.
7. 3/4" & 1" LONG SERVICES REQUIRE A 2" 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 TUBING.
9. TRACE WIRE TO BE INSTALLED AS PER THIS DETAIL.

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

NO.	DATE	DESCRIPTION	BY

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

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**UTILITY DETAILS**  
APALACHEE REGIONAL PARK  
CROSS COUNTRY VENUE  
INFRASTRUCTURE IMPROVEMENTS

**DRMP**  
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BENJAMIN LENNON, P.E.  
Florida Engineer #78674  
PROJECT NO.:  
**15-0513.004**  
SCALE:  
AS SHOWN  
DATE:  
10/08/2019  
DRAWING:  
22

**NOTES**

W-1A & W-1B

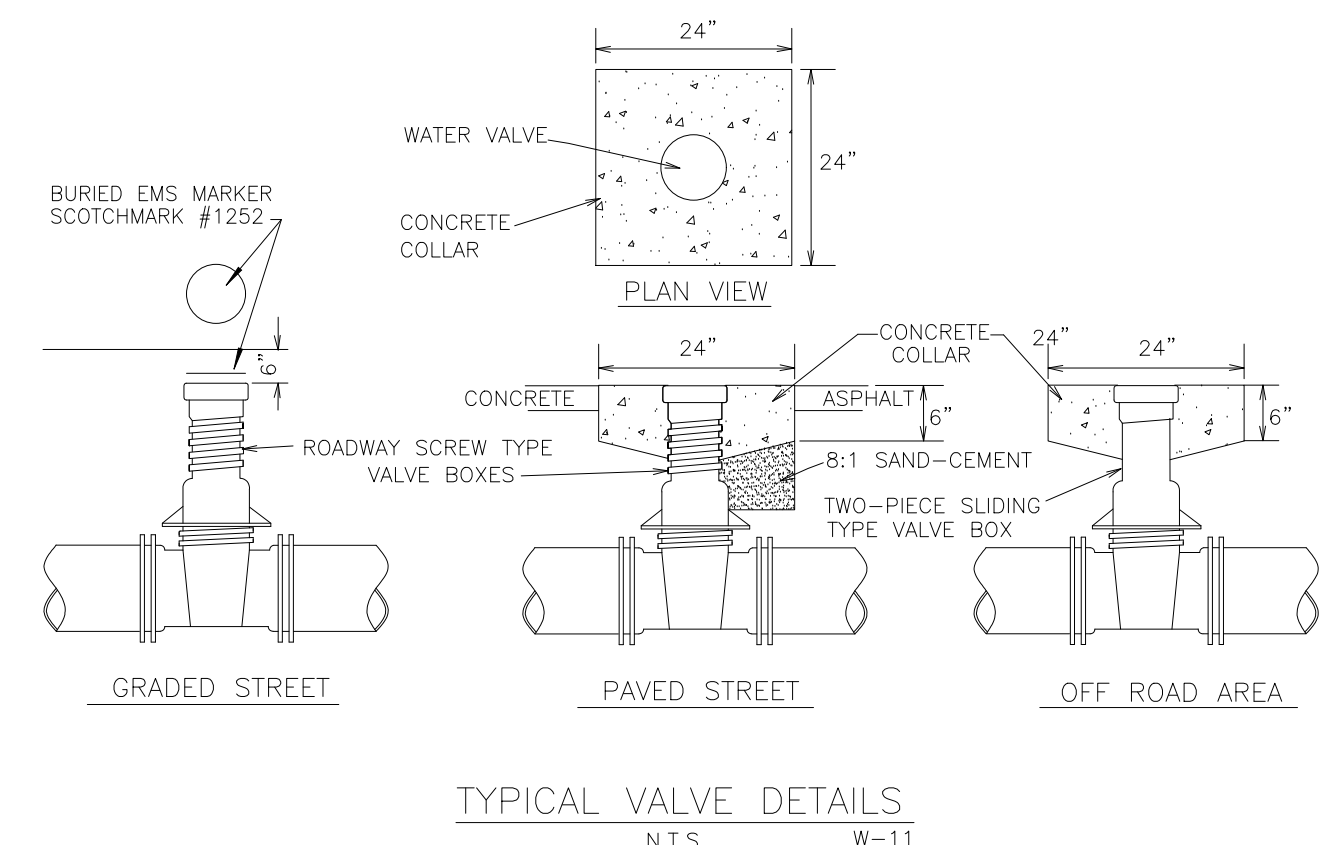
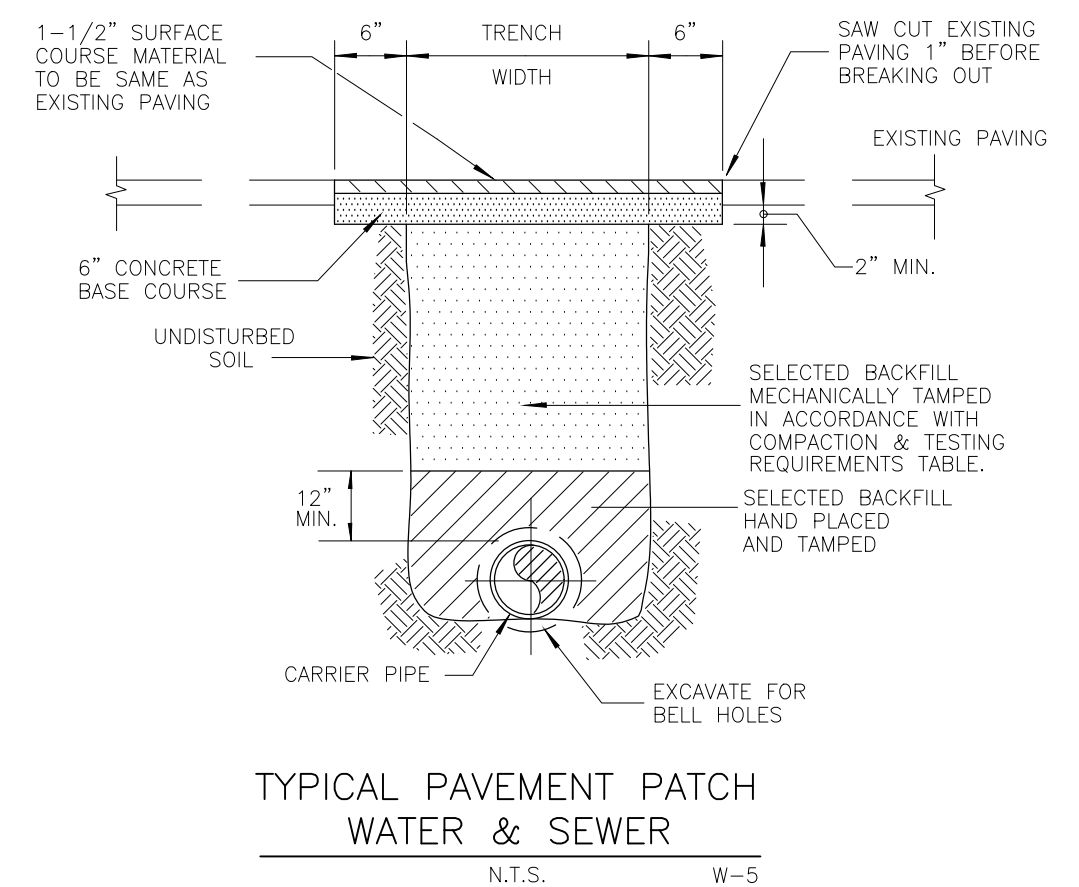
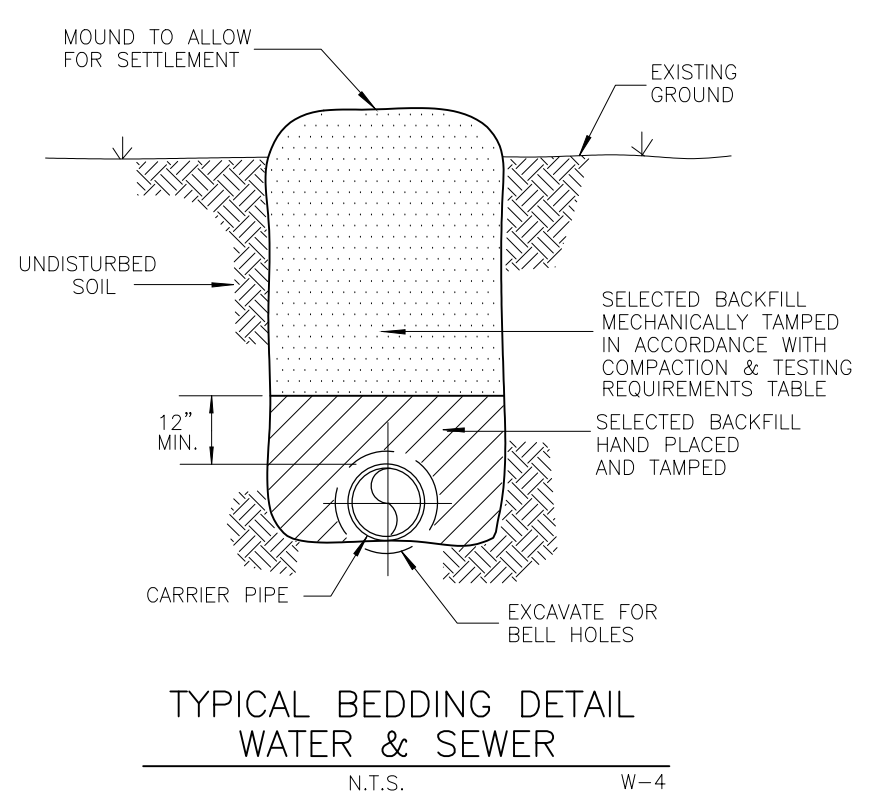
- 1.) ALL WATER MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND TEC SPECIFICATIONS.
  - 2.) WATER MAIN SHALL BE INSTALLED ON NORTH OR EAST ROAD CENTERLINE AT A DISTANCE TO INSURE MAIN IS A MINIMUM OF 6" FROM EDGE OF PAVEMENT OR IN ACCORDANCE WITH COUNTY AND STATE RECOMMENDED GUIDELINES FOR UTILITY PLACEMENT.
  - 3.) ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH COUNTY AND STATE SPECIFICATIONS.
  - 4.) ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS.
  - 5.) MATERIALS APPROVED FOR WATER MAIN CONSTRUCTION INCLUDES:  
A. PVC CLASS 900 DR 18  
B. 6" THRU 16" CAST IRON, CLASS 22 (AWWA C-601), DUCTILE IRON, CLASS 50 (AWWA 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 HDPE DR-9 MEETING ASTM D3350, RATED AT 250 P.S.I. WATER SERVICE TUBING SHALL BE BLUE ICE TUBING AS MANUFACTURED BY CHARTER PLASTICS, INC. OR APPROVED EQUAL.
  - 9.) FLUSH 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 DITCH 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 COPPER WIRE COILED AROUND ALL WATER MAINS AND SERVICE LINES. ALL WIRE SHALL BE JOINED BY A COMMON BOND USING "BUTT SPLICE" WHERE A SERVICE WIRE IS BEING 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 WRAPS. WIRE SPLICES SHALL BE WRAPPED WITH SCOTCH E-Z SEAL NO. 2200 ELECTRICAL INSULATING PAD WITH VINYL BACKING. THE SERVICE LINE WIRE SHALL EXTEND 12" INTO THE METER BOX.
  - 12.) "AS 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 EMS MARKERS INSTALLED 18" BELOW GROUND LEVEL.
  - 14.) ALL MAINS AND SERVICE LINES SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA C-601 UNDER SUPERVISION OF TEC INSPECTORS.
  - 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 MANQUARD HYDRANT BY KUPFERLE FOUNDRY.
  - 19.) A SET OF PLANS WITH TALQUIN STAMP OF APPROVAL SHALL BE LOCATED ON JOB SITE DURING CONSTRUCTION.
  - 20.) ALL CONSTRUCTION STAKING SHALL BE DONE AT CONTRACTORS EXPENSE.
  - 21.) BEFORE ANY CONSTRUCTION BEGINS "SHOP DRAWINGS" SHALL BE APPROVED BY TEC.
  - 22.) CONSTRUCTION OF PIPE ALONG AN ARC 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 RADIUS BASED ON J-M BLUE BRUTE AND RING TITE PIPE SHALL BE AS FOLLOWS:  
12" - 300 FEET  
10" - 250 FEET  
8" - 200 FEET  
6" - 150 FEET  
4" - 100 FEET  
2" - 25 FEET
  - 23.) FOR FURTHER DETAILS SEE TEC SPECIFICATIONS.
- NOTE: METER BOX SHALL BE TYPE 1419BP5PM - TW115 UNIT/GREEN TALQUIN WATER METER FRAME TO CARRY NAME AS MANUFACTURED BY CARSON INDUSTRIES, INC. THE LID SHALL INCLUDE A METAL READER EYE AND BE PRESSURE RATED AT 3500 POUNDS. NO EXCEPTIONS.

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

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)			
Vacuum Sanitary Sewer			
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)			
On-Site Sewage Treatment & Disposal System	10 feet minimum	----	----

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.  
 (2) Reclaimed water regulated under Part III 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) Reclaimed water not regulated uin Part III of Chapter 62-610, F.A.C.  
**NOTE: MINIMUM SEPARATION DIMENSIONS MUST BE APPROVED BY TALQUIN.**

**SEPARATION DETAIL**  
N.T.S.



**COMPACTION & TESTING REQUIREMENTS**

W-12

**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 CURB LINES 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, T-180, ASTM D 698, ASTM D 1557	ONE PER MATERIAL TYPE
B. DENSITY (INSITU) ALONG PIPELINE	ASTM D2922 ASTM D1556	ONE PER EVERY 12-INCH DEPTH AND 400 LF OF PIPELINE OR BETWEEN STRUCTURES
C. DENSITY (INSITU) AT SERVICES	ASTM D2922 ASTM D1556	1 FOR EACH 12" DEPTH OF EACH SERVICE
D. DENSITY (INSITU) AROUND	ASTM D2922 ASTM D1556	1 FOR EACH 12" DEPTH OF STRUCTURE

NO.	DATE	DESCRIPTION	BY			
			MHB	JMM	BRJ	BRL

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY

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**UTILITY DETAILS**  
**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

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**23**

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**SEEDING**

**CONSTRUCTION SPECIFICATIONS:**

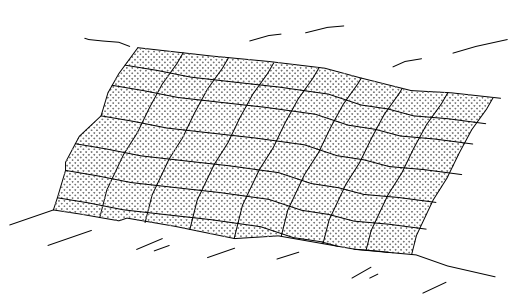
**TIMING:**  
 APPLY PERMANENT SEEDING ON AREAS LEFT DORMANT FOR 1 YEAR OR MORE. APPLY PERMANENT SEEDING WHEN NO FURTHER DISTURBANCES ARE PLANNED. TO DETERMINE OPTIMUM SEEDING SCHEDULE, CONSULT A LOCAL AGRONOMIST OR EROSION CONTROL SPECIALIST. APPLY PERMANENT SEEDING BEFORE SEASONAL RAINS OR FREEZING WEATHER IS ANTICIPATED. USE DORMANT 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 SPECIALISTS FOR SEED MIX. USE A SEED BLEND TO INCLUDE ANNUALS, PERENNIALS AND LEGUMES. USE SEED RATES BASED ON PURE LIVE SEED (PLS) OF 80%. WHEN PLS IS BELOW 80% ADJUST RATES ACCORDINGLY.

**SITE PREPARATION:**  
 BRING 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 INCH 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 CLODS AND STONES. THE TOPSOIL SURFACE SHOULD BE IN SEASONABLY CLOSE CONFORMITY TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE GRADING PLANS.

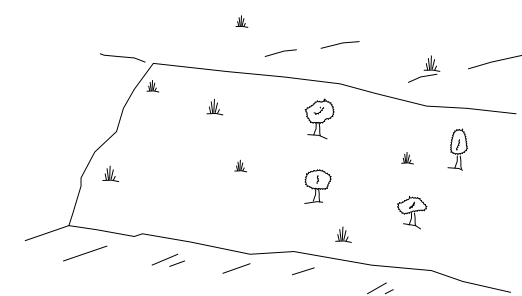
**PLANTING:**  
 SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. SEED SHOULD BE APPLIED IMMEDIATELY AFTER SEEDBED PREPARATION WHILE THE SOIL IS LOOSE AND MOIST. IF THE SEEDBED HAS BEEN IDLE LONG ENOUGH FOR THE SOIL TO BECOME COMPACT, THE TOPSOIL SHOULD BE HARROWED WITH A DISK, SPRING TOOTH DRAG, SPIKE TOOTH DRAG, OR OTHER EQUIPMENT DESIGNED TO CONDITION THE SOIL FOR SEEDING. HARROWING, TRACKING OR FURROWING SHOULD BE DONE HORIZONTALLY ACROSS THE FACE OF THE SLOPE. ALWAYS APPLY SEED BEFORE APPLYING MULCH. APPLY SEED AT THE RATES SPECIFIED USING CALIBRATED SEED SPREADERS, CYCLONE SEEDERS, MECHANICAL DRILLS, OR HYDROSEEDER 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 SEEDING AREAS.

**INSPECTION AND MAINTENANCE:**  
 NEWLY SEEDING 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 SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.

**DISTURBED AREA STABILIZATION (WITH SODDING)**



ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD OR LEGUMES ON DISTURBED AREAS. USE PENSACOLA BAHIA FOR PERMANENT COVER. REFER TO SHEET C1.7.

**DISTURBED AREA STABILIZATION (WITH PERM VEGETATION)**

**TEMPORARY SEEDING**

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

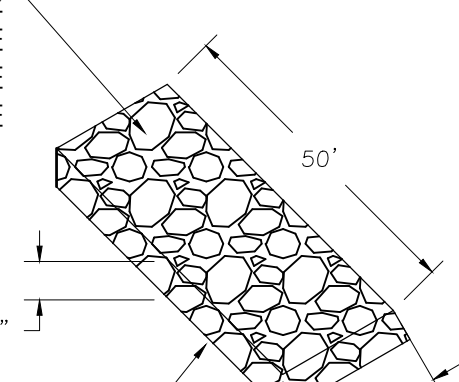
PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS			
SPECIES	BROADCAST Rates per PLS per Acre per 1000 SF	RESOURCE (Darker shades indicate optimum dates and lighter shades indicate permissible but marginal dates.)	REMARKS
MILLET, BROWNTOP (Panicum fasciculatum)	ALONE ..... 40 lbs. 0.9 lb. IN MIXTURES ..... 10 lbs. 0.2 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEED AT HIGH RATES
RYE (Secale cereale)	ALONE ..... 3 bu. (168 lbs.) IN MIXTURES ..... 1 1/2 bu. 0.6 lb. (28 lbs.)	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	18,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER-HARDY
RYEGRASS, ANNUAL (Lolium temulentum)	ALONE ..... 40 lbs. 0.9 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS UNUSUAL TO BE USED IN MIXTURES

**PERMANENT SEEDING**

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

PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER OR COMPANION CROPS			
SPECIES	BROADCAST Rates per PLS per Acre per 1000 SF	RESOURCE (Darker shades indicate optimum dates and lighter shades indicate permissible but marginal dates.)	REMARKS
BAHIA GRASS (Hulled Seed)	ALONE ..... 10 lbs. 0.2 lb. WITH OTHER PERENNIALS ..... 6 lbs. 0.1 lb.	SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	1,787,000 SEED PER LB QUICK COVER LOW GROWING AND SOFT FORMING FULL SUN GOOD FOR ATHLETIC FIELDS
BAHIA GRASS	WITH TEMPORARY COVER ..... 10 lbs. 0.2 lb. WITH OTHER PERENNIALS ..... 6 lbs. 0.1 lb.	SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE

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



GEOTEXTILE UNDERLINER

NOTE: SEE PLANS FOR DIMENSIONS.

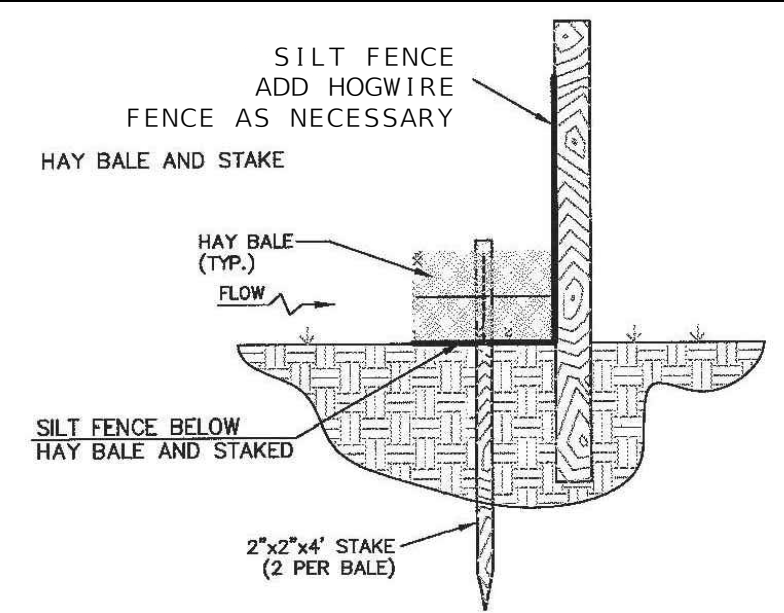
**CONSTRUCTION ENTRANCE DETAIL**

N.T.S.

**SHEET FLOW APPLICATION: SILT FENCE**

**GENERAL NOTES**

- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED AS DESCRIBED IN ITEM NO. 8 BELOW.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8 FEET. STAKE LOCATIONS WILL BE ADJUSTED BY THE ARBORIST TO MINIMIZE DAMAGE TO TREE ROOT SYSTEMS.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 8 APPLYING.
- WHEN ATTACHING TWO SILT FENCES TOGETHER, PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS AT LEAST 180 DEGREES ON A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FILTER FABRIC. DRIVE BOTH POSTS INTO THE GROUND AND BURY THE FLAG.
- WHEN USED TO CONTROL SEDIMENTS FROM A STEEP SLOPE, SILT FENCES SHOULD BE PLACED AWAY FROM THE TOE OF THE SLOPE FOR INCREASED HOLDING CAPACITY.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.



HAY BALES SHALL BE ADDED AS REQUIRED TO CONTROL EROSION AND SEDIMENT TRANSPORT

- MAINTENANCE NOTES:**
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
  - SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
  - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
  - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
  - NO TRENCHING SHALL OCCUR WITHIN THE CRITICAL PROTECTION ZONE OF ANY PROTECTED OR DESIRABLE TREE.

**VEGETATIVE PLAN**

SPECIES	RATES PER ACRE	PLANTING DATES
AGRICULTURAL LIMESTONE FERTILIZER, 5-10-15 MULCH, STRAW, HAY	4,000LBS. 1,500LBS. 5,000LBS.	
HULLED COMMON BERMUDA GRASS	10LBS.	3/1 - 6/15
HAY MULCH FOR TEMPORARY COVER	5,000LBS.	6/15 - 8/31
TOPDRESSING 33.5% AMMONIUM NITRATE	300LBS.	WHEN PLANTS ARE 2" - 4" TALL
SECOND YEAR FERTILIZER 5-10-15 (OR EQUAL)	800LBS.	

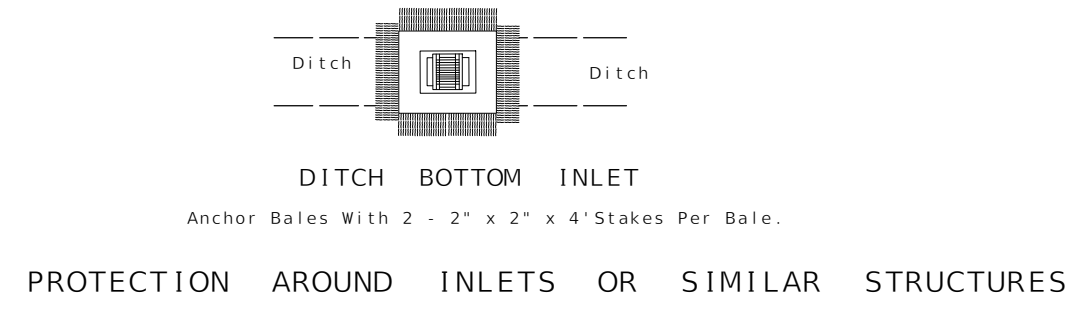
**SEEDING SCHEDULE**

SPECIES	RATES PER ACRE	PLANTING DATES
SEEDING:		
RYE GRAIN	168 LBS. 1/2 BU.	15 JULY-30 JANUARY
BAHIA	30 LBS.	1 MARCH-30 SEPTEMBER 1 OCTOBER-28 FEBRUARY
FERTILIZER:		
5-10-10	1,800 LBS.	
MULCH:		
HAY	2 1/2 TONS	
STRAW	2 TONS	
PLANTING:		
PLANTING TO BE ACCOMPLISHED BY HYDRAULIC SEEDING		
LIME RATE:		
WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED AGRICULTURE LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT A RATE OF 2 TONS PER ACRE.		

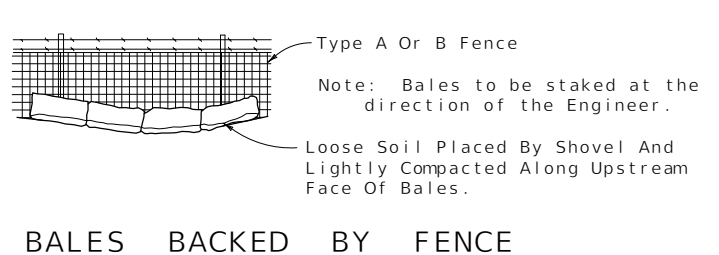
- NOTE: DURING "HIGH FAILURE" MONTHS SEEDING CONTRACTOR TO SPREAD MULCH OR HAY FOR SLOPE STABILIZATION.
- USE A MINIMUM OF 40 LBS. SCARIFIED SEED. REMAINDER MAY BE UNSCARIFIED. CLEAN HULLED SEED.
  - USE EITHER COMMON SERAIA OR INTERSTATE SERICEA LESPEDEZA.
  - ALL AREAS TO BE SEEDING SHALL HAVE LIME APPLIED AT A RATE OF 90 LB./1000 S.F. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
  - ALL AREAS SEEDING 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

**EROSION CONTROL GENERAL NOTES**

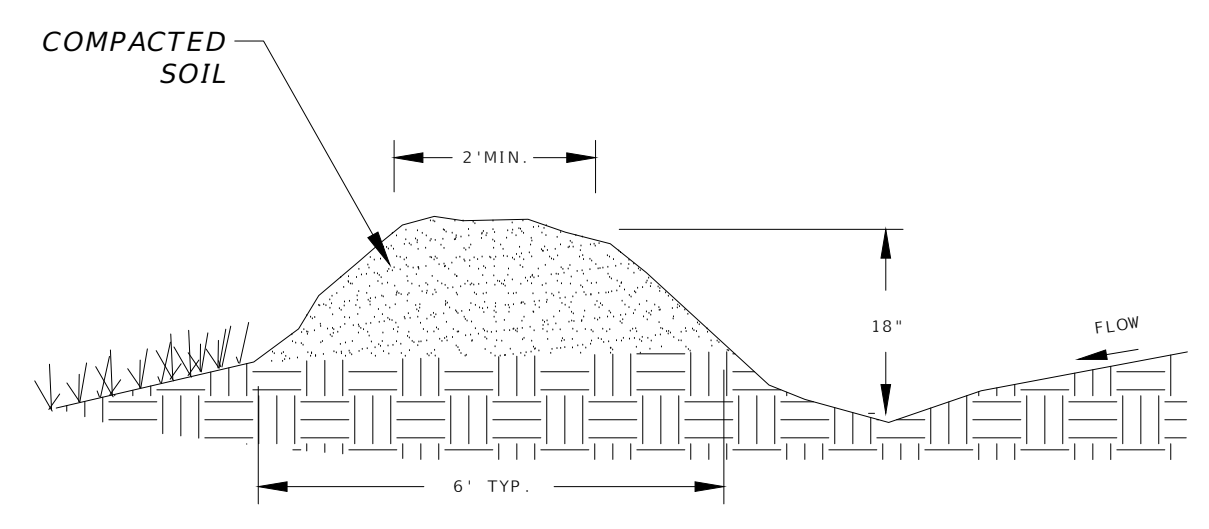
- EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED 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 GRADING ACTIVITIES.
- ALL DRAINAGE STRUCTURES TO BE EROSION PROOFED (WITH RIPRAP AS PER DETAIL ON THIS SHEET) ALL RIPRAP SHALL BE TYPE 1 STONE PLAIN IN ACCORDANCE WITH THE LATEST EDITION OF FDOT STANDARD SPECIFICATIONS.
- ALL HEAD WALLS ARE TO HAVE STORM DRAIN OUTLET PROTECTION AND SILT TRAP DITCHES.
- SILT FENCE MUST MEET THE REQUIREMENTS OF FDOT, 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 CONFIRMED WITH THE DESIGN ENGINEER AND CONTRACTING OFFICER, AND THE ESDC PLANS WILL BE "REDLINED" 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 DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF FDOT.
- ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE PROJECT ENGINEER, COUNTY REPRESENTATIVE OR AS CONDITIONS MAY DICTATE.
- MAXIMUM CUT OR FILL SLOPES IS 3H:1V.
- 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 POND, DETENTION 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-DISTURBING 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 SITE 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.



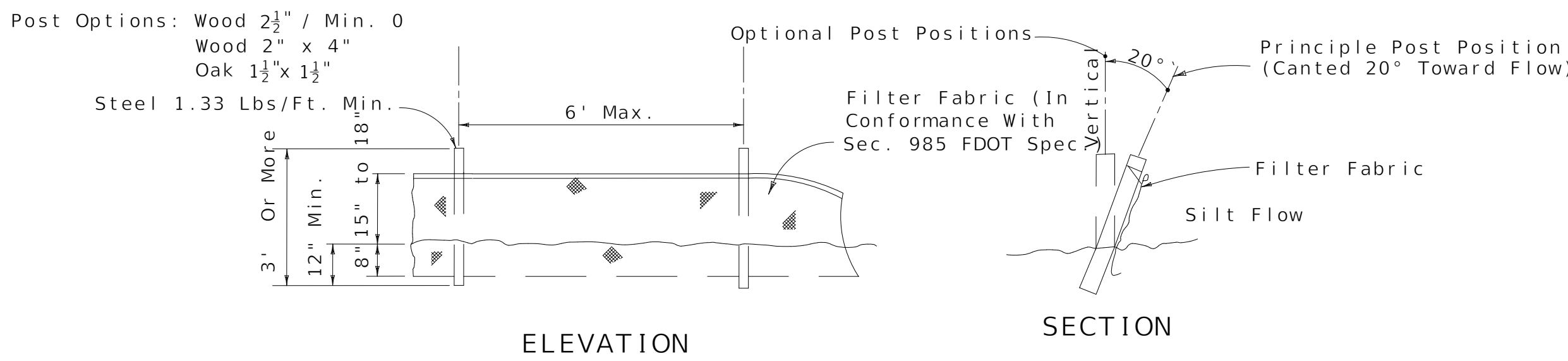
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



BALES BACKED BY FENCE



TEMPORARY DIVERSION SWALE DETAIL



ELEVATION

SECTION

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

**SILT FENCE**

DETAILS FROM FLORIDA EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL, FDEP, JULY 2008. SEE THIS MANUAL FOR ADDITIONAL INFORMATION ON SILT FENCE TYPE, INSTALLATION, MAINTENANCE, FABRIC, ETC.

NO.	DATE	DESCRIPTION	BY

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 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
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**EROSION CONTROL DETAILS**  
**APALACHEE REGIONAL PARK**  
**CROSS COUNTRY VENUE**  
**INFRASTRUCTURE IMPROVEMENTS**

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

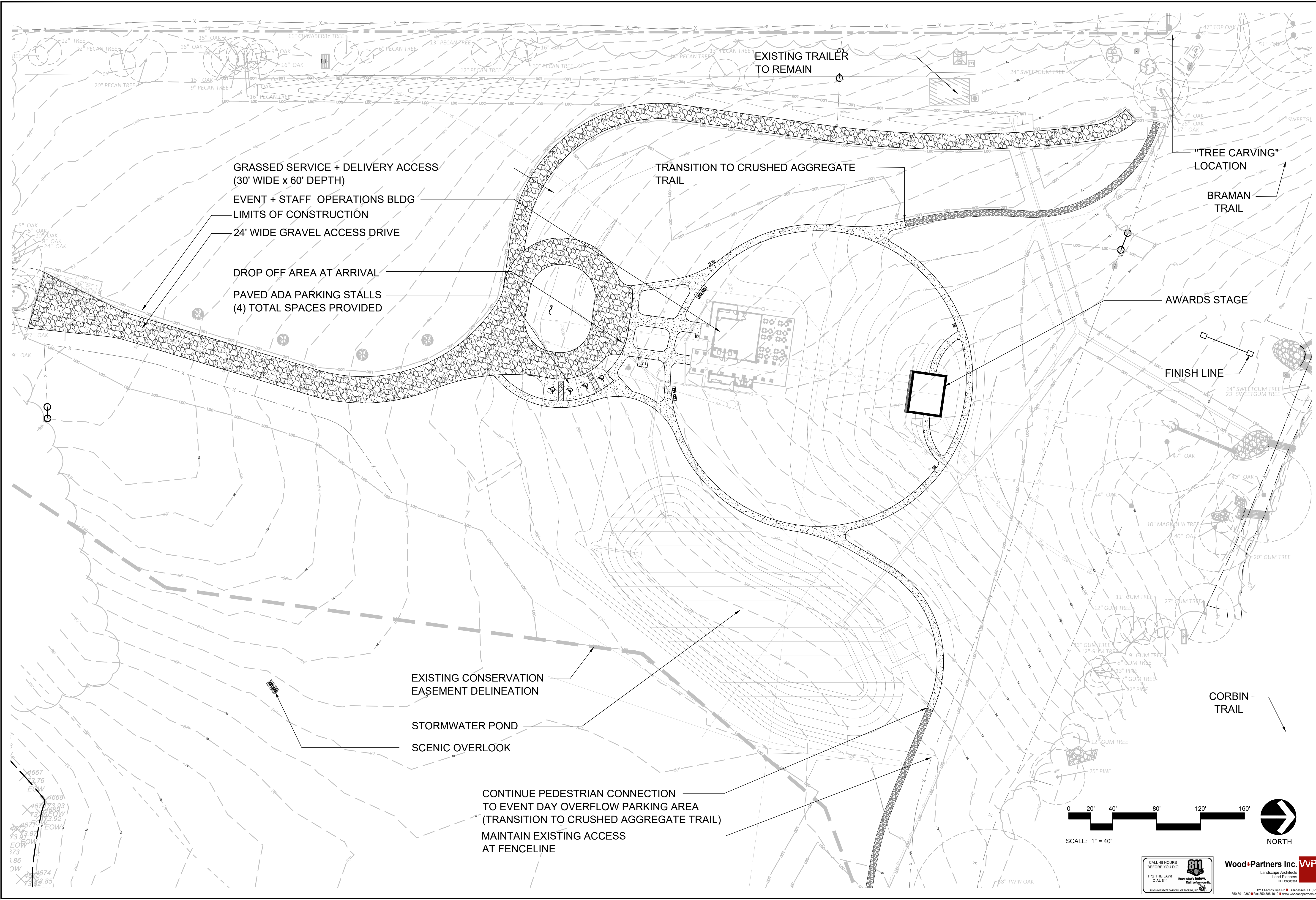
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

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BENJAMIN LENNON, P.E.  
 Florida Engineer #78674  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 10/08/2019  
 DRAWING: 24



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REVISIONS	
NO.	DATE
DESIGNED BY	MHB
DRAWN BY	JMM
CHECKED BY	BRLL
APPROVED BY	BRLL

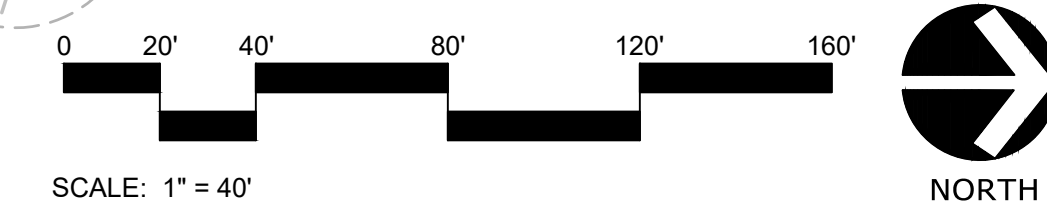
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**APALACHEE REGIONAL PARK  
 CROSS COUNTRY VENUE  
 INFRASTRUCTURE  
 IMPROVEMENTS**

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MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 6688778  
 09/19/2019

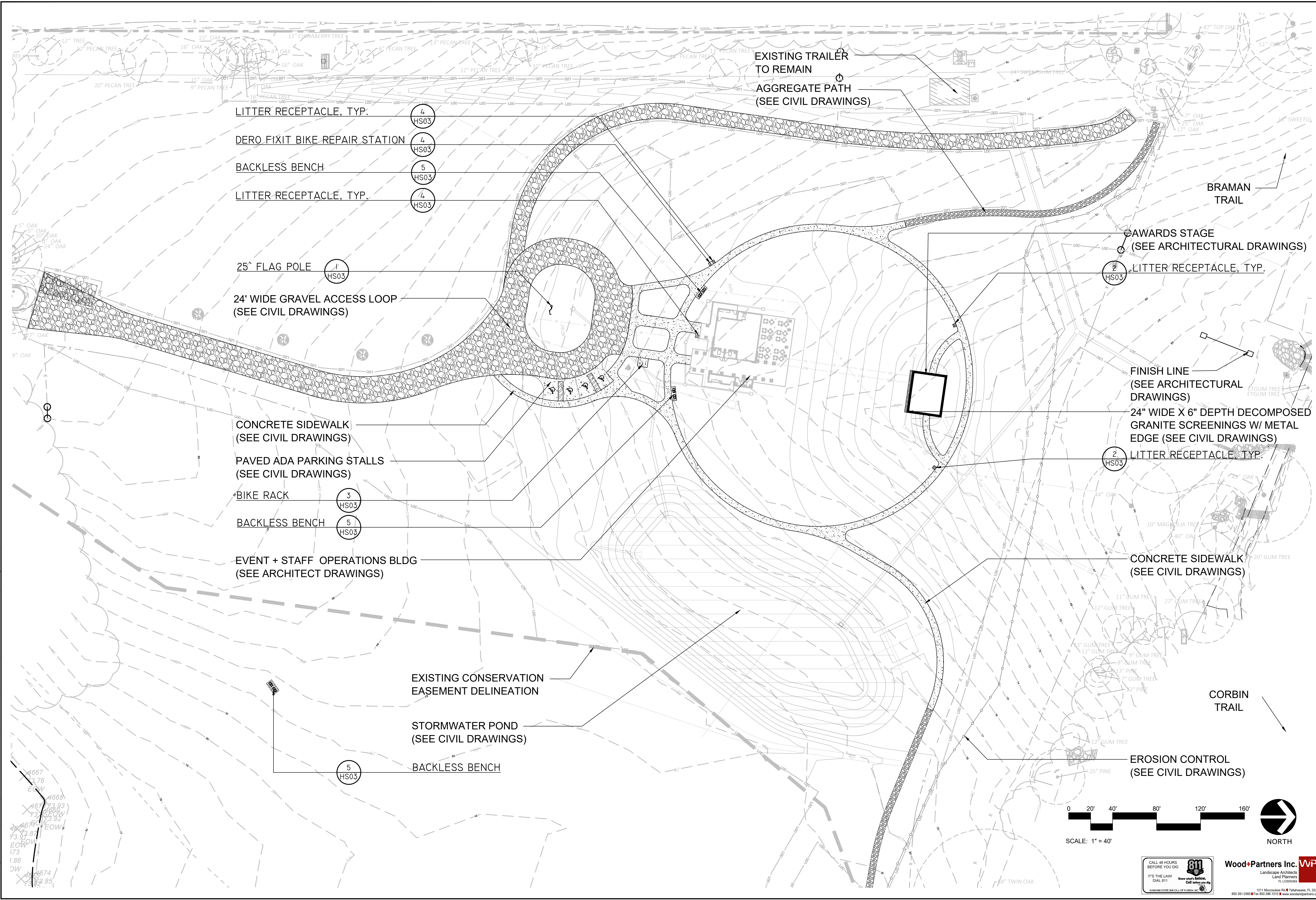
SITE PLAN  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 9/19/2019  
 DRAWING: HS01



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LITTER RECEPTACLE, TYP. (4) HS03

DERO FIXIT BIKE REPAIR STATION (4) HS03

BACKLESS BENCH (5) HS03

LITTER RECEPTACLE, TYP. (4) HS03

25' FLAG POLE (1) HS03

24' WIDE GRAVEL ACCESS LOOP (SEE CIVIL DRAWINGS)

CONCRETE SIDEWALK (SEE CIVIL DRAWINGS)

PAVED ADA PARKING STALLS (SEE CIVIL DRAWINGS)

BIKE RACK (3) HS03

BACKLESS BENCH (5) HS03

EVENT + STAFF OPERATIONS BLDG (SEE ARCHITECT DRAWINGS)

EXISTING CONSERVATION EASEMENT DELINEATION

STORMWATER POND (SEE CIVIL DRAWINGS)

BACKLESS BENCH (5) HS03

EXISTING TRAILER TO REMAIN  
AGGREGATE PATH (SEE CIVIL DRAWINGS)

AWARDS STAGE (SEE ARCHITECTURAL DRAWINGS)

LITTER RECEPTACLE, TYP. (2) HS03

FINISH LINE (SEE ARCHITECTURAL DRAWINGS)  
24" WIDE X 6" DEPTH DECOMPOSED GRANITE SCREENINGS W/ METAL EDGE (SEE CIVIL DRAWINGS)

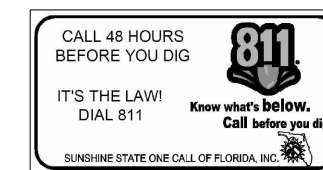
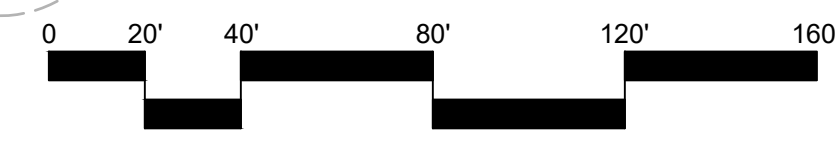
LITTER RECEPTACLE, TYP. (2) HS03

CONCRETE SIDEWALK (SEE CIVIL DRAWINGS)

EROSION CONTROL (SEE CIVIL DRAWINGS)

BRAMAN TRAIL

CORBIN TRAIL



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

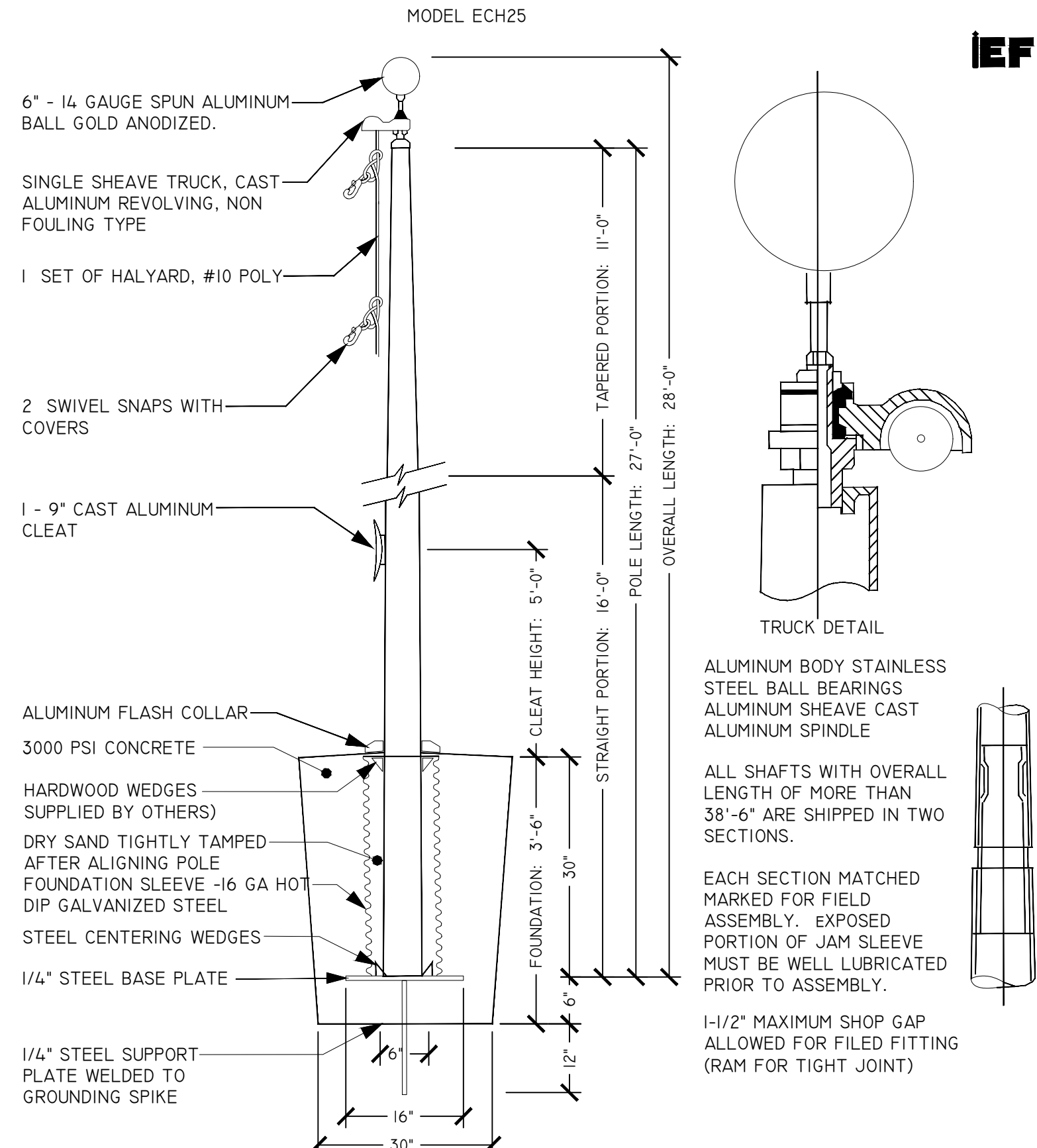
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**APALACHEE REGIONAL PARK  
 CROSS COUNTRY VENUE  
 INFRASTRUCTURE  
 IMPROVEMENTS**

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MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 6688776  
 09/19/2019

**HARDSCAPE KEY**  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 9/19/2019  
 DRAWING: HS02



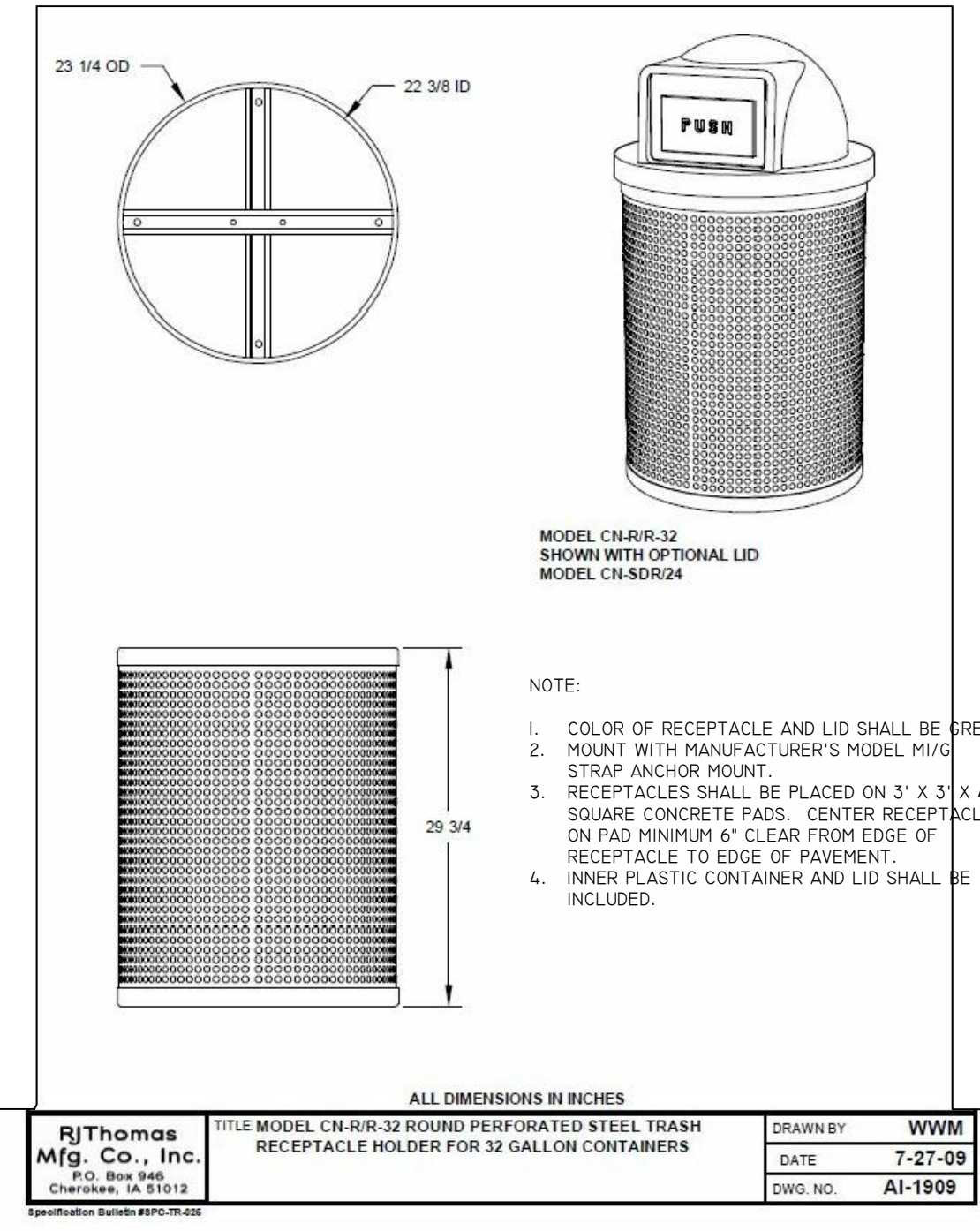
PROJECT	GROUND SET TAPERED ALUMINUM FLAGPOLE; ALLOY: 6063T6	EDER FLAG	DATE:
LOCATION	EXPOSED HEIGHT: 25'	OVERALL HEIGHT: 28'-0"	MANUFACTURING COMPANY REVISION:
ARCHITECT	SHIP IN 1 SECTION	BUTT DIAMETER: 6"	1000 W. RAWSON AVENUE
CONTRACTOR	TOP DIAMETER: 3-1/2"	WALL THICKNESS: .188"	CONTRACTOR
CUSTOMER	FINISH 100 GRIT POLISH	CUSTOMER	JOB:

NOTE: SUBMIT SIGNED AND SEALED SHOP DRAWINGS.

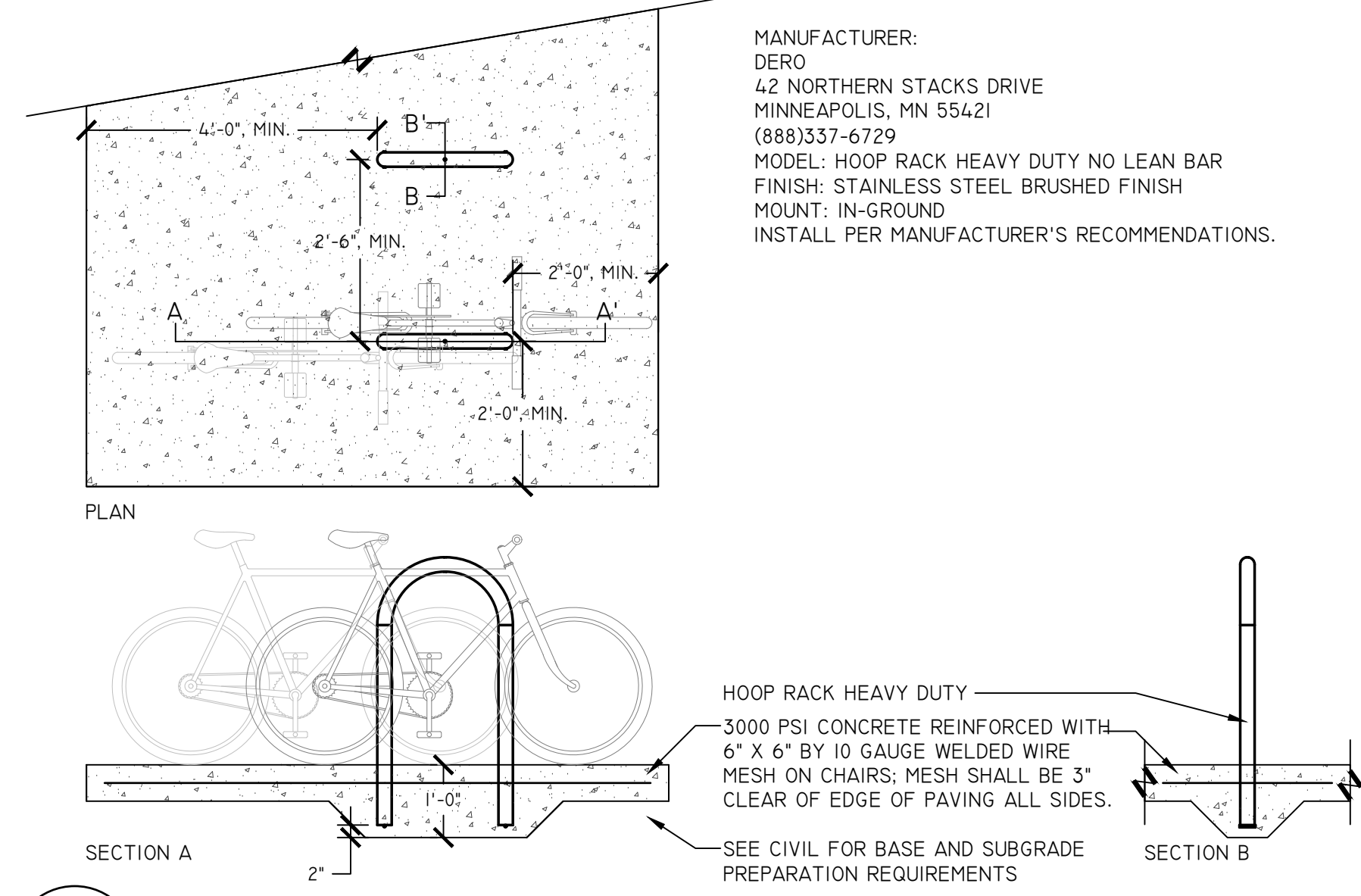
**1** 25' FLAG POLE  
HS03 3/4" = 1'-0"

**FURNISHING SCHEDULE:**

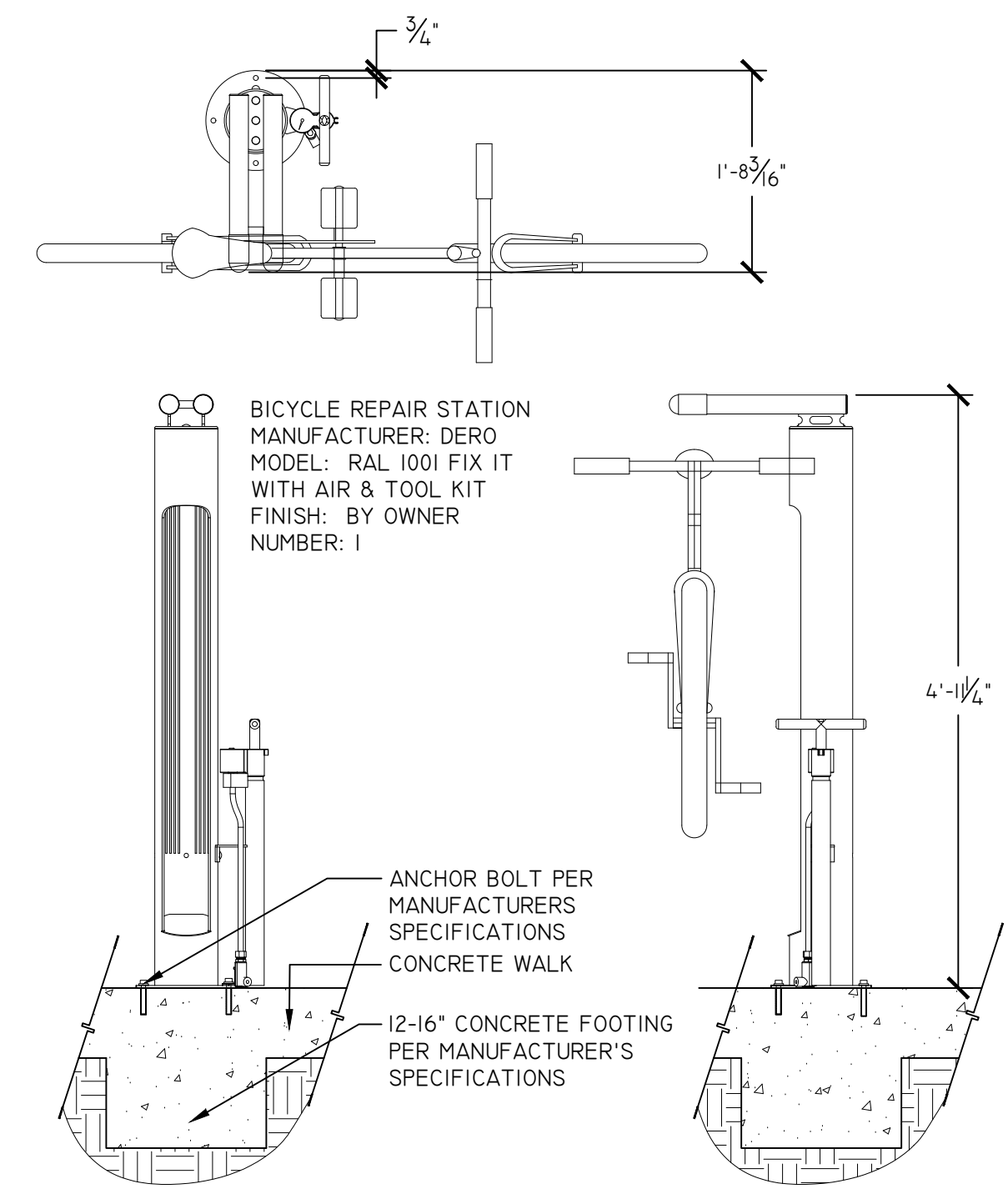
SYMBOL	DESCRIPTION	QTY	DETAIL
	FLAG POLE; MODEL ECH25 CLEAR FINISH ALUMINUM FLAGPOLE WITH STANDARD ACCESSORIES.	1	1/HS03
	DERO; FIXIT-BICYCLE REPAIR STATION; COLOR: BY OWNER; <a href="https://www.dero.com/product/fixit/">HTTPS://WWW.DERO.COM/PRODUCT/FIXIT/</a>	1	4/HS03
	LITTER RECEPTACLE; PILOT ROCK MODEL CN-R/R-32; 32 GALLON RECEPTACLE WITH LINER; MODEL MI/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.	3	3/HS03
	LANDSCAPE FORMS PRES-S-2-E PRESIDIO, BACKLESS SEATS, 2 SEAT UNITS, STRAIGHT, EMBEDDED	6	5/HS03



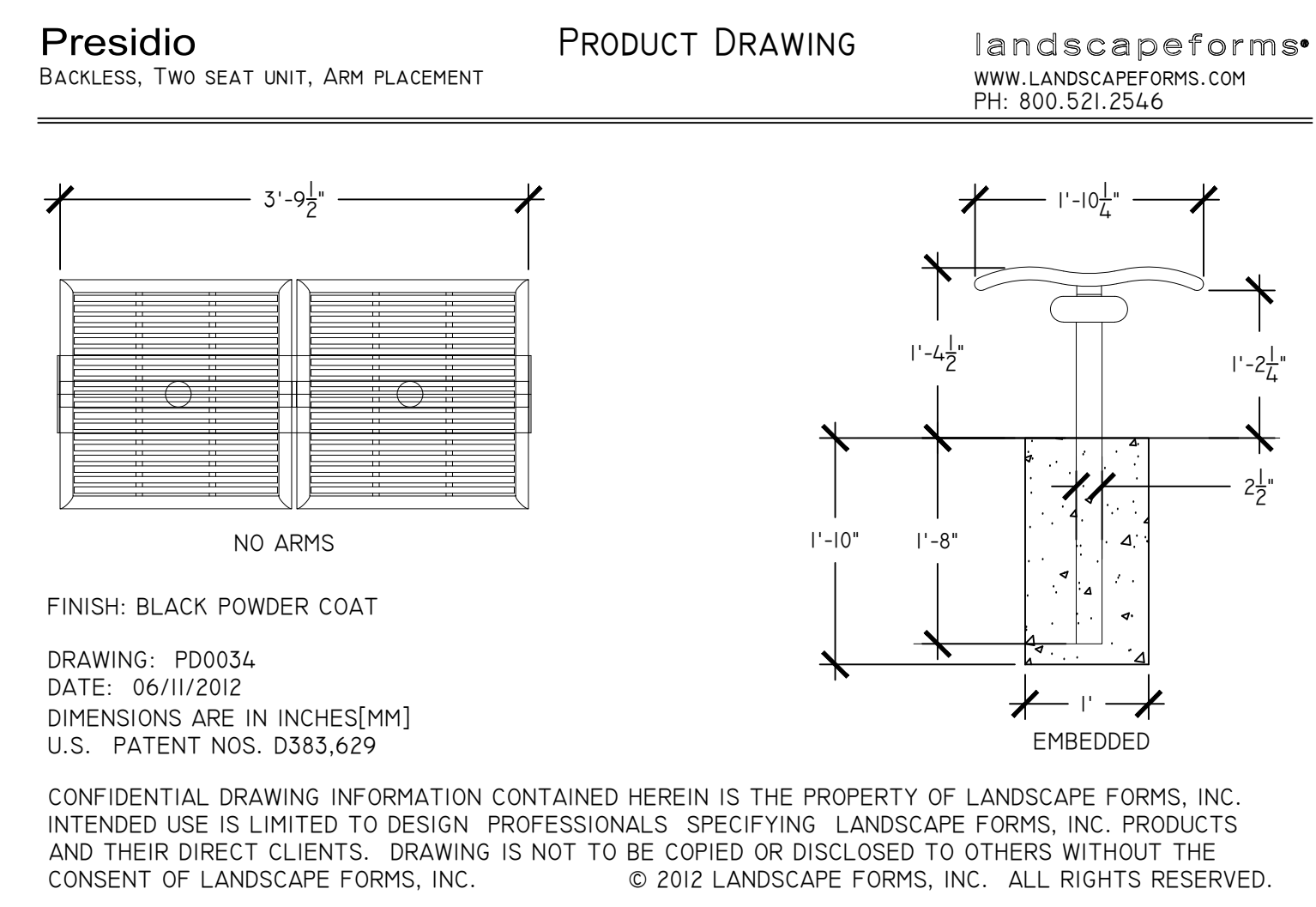
**2** LITTER RECEPTACLE, TYP.  
HS03 NTS



**3** BIKE RACK  
HS03 1/2" = 1'-0"



**4** DERO FIXIT BIKE REPAIR STATION  
HS03 3/4" = 1'-0"



**5** BACKLESS BENCH  
HS03 3/4" = 1'-0"

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

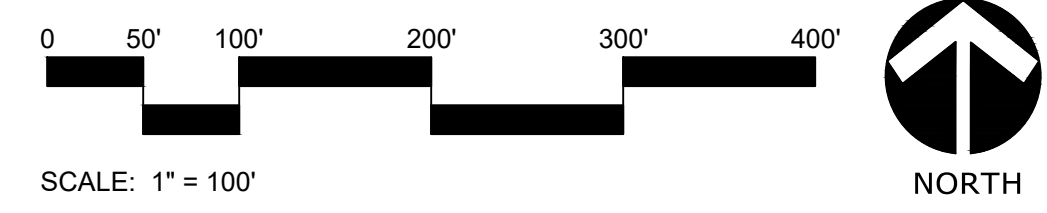
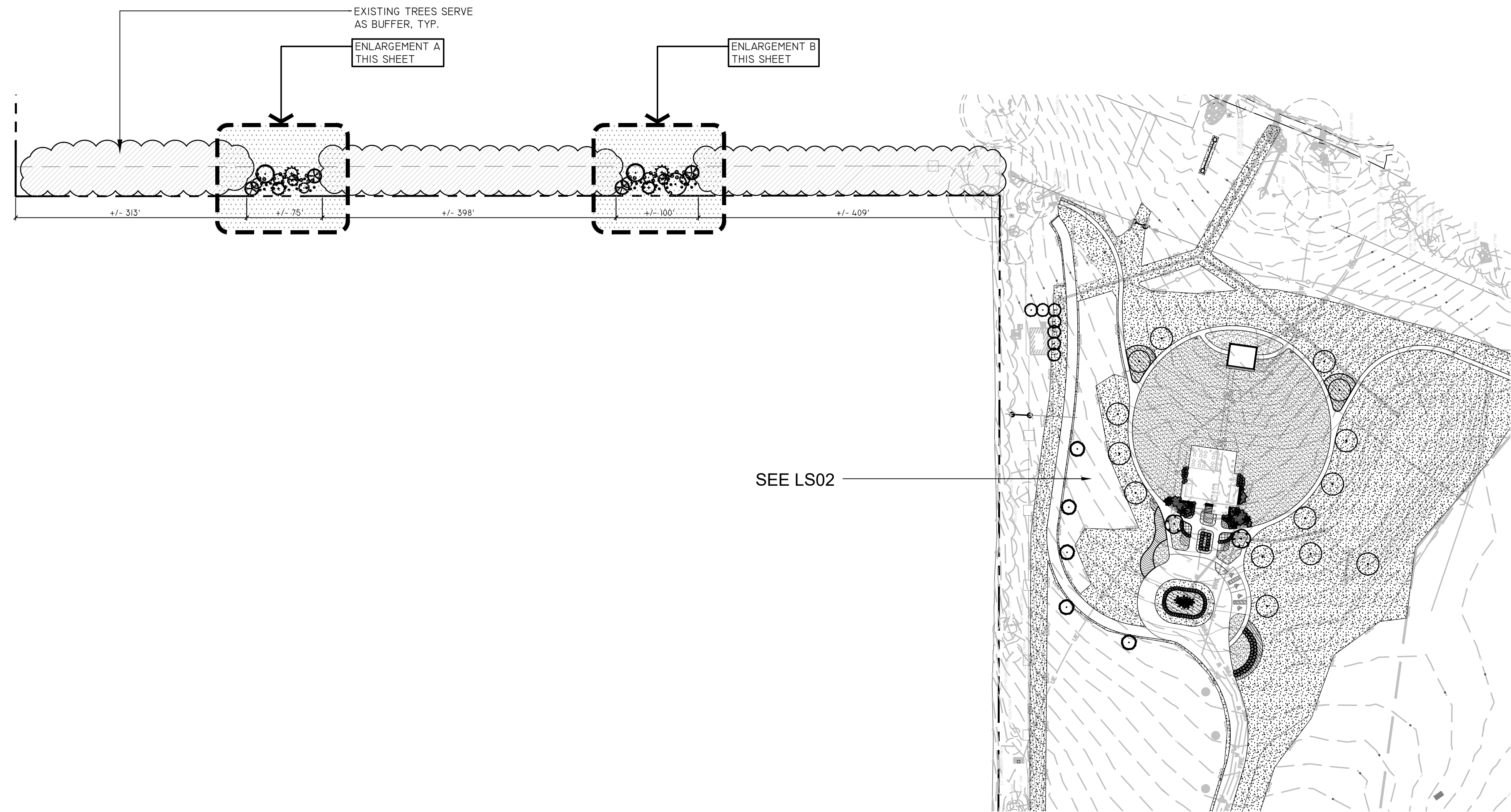
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**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

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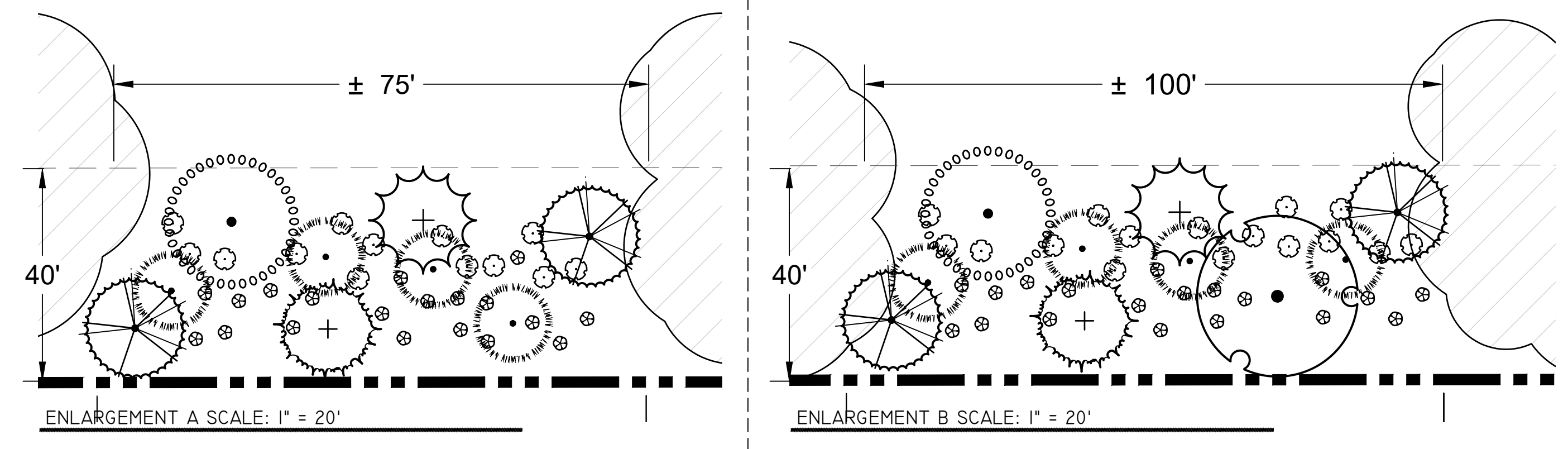
HARDSCAPE DETAILS	
PROJECT NO.:	15-0513.004
SCALE:	AS SHOWN
DATE:	9/19/2019
DRAWING:	HS03

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**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.
	JUS1	2	JUNIPERUS SILICICOLA / SOUTHERN RED CEDAR	FG B&B	2" CAL.
	MAGR	2	MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA FL.#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.
	QUV12	1	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL.#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.
CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL
	ILAT2	2	ILEX X ATTENUATA "EAST PALATKA" / EAST PALATKA HOLLY FL.#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.
	PIPA	8	PINUS PALUSTRIS / LONGLEAF PINE FL.#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT
	RHIN-F	38	RHODODENDRON INDICA "FORMOSA" / FORMOSA AZALEA	3 GAL.	24"-30"
	RHLS	29	RHODODENDRON INDICUM "Mrs. G.G. GERBING" / Mrs. G.G. GERBING AZALEA	3 GAL.	2'-3"



**NOTE:**  
 I. 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.

NO.	DATE	DESCRIPTION	BY

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

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
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**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

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 2882 Remington Green Circle  
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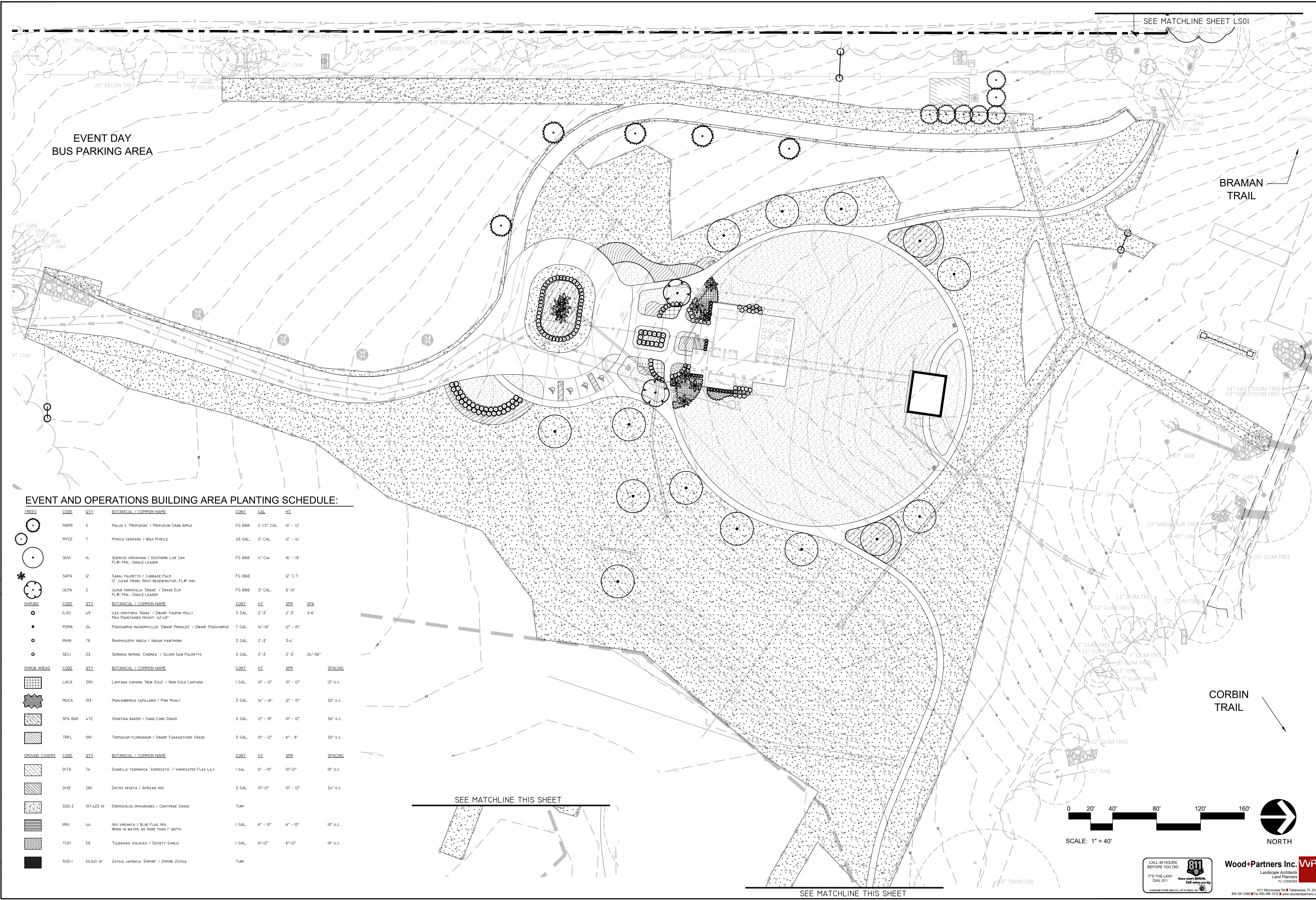
MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 668776  
 08/19/2019

**PLANTING PLAN**  
 PROJECT NO.: 15-0513.004

SCALE: AS SHOWN  
 DATE: 9/19/2019  
 DRAWING: LS01



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SEE MATCHLINE SHEET LS01

EVENT DAY BUS PARKING AREA

BRAMAN TRAIL

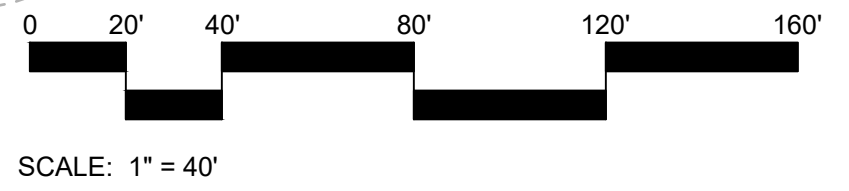
CORBIN TRAIL

SEE MATCHLINE THIS SHEET

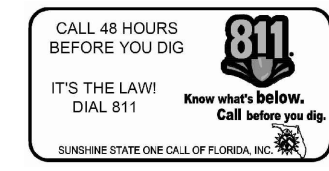
SEE MATCHLINE THIS SHEET

**EVENT AND OPERATIONS BUILDING AREA PLANTING SCHEDULE:**

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	GAL.	HIT	
	MAPR	5	MALUS X 'PROFUSION' / PROFUSION CRAB APPLE	FG BBB	2 1/2" CAL.	10' - 12'	
	MYCE	7	MYRICA CERIFERA / WAX MYRTLE	4S GAL.	2" CAL.	12' - 16'	
	OLVI	14	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL#1 MIN.; SINGLE LEADER	FG BBB	4" CAL.	16' - 18'	
	SAPA	12	SABAL PALMETTO / CABBAGE PALM 12" CLEAR TRUNK; ROOT REGENERATIVE; FL#1 MIN.	FG BBB		12' C.T.	
	ULPA	2	ULMUS PARVIFOLIA 'DRAKE' / DRAKE ELM FL#1 MIN.; SINGLE LEADER	FG BBB	3" CAL.	8'-10'	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	HT.	SPR.	SPA.
	ILVO	49	ILEX VOMITORIA 'NANA' / DWARF YAUPOH HOLLY MAX. MAINTENANCE HEIGHT: 52-54"	3 GAL.	2'-3"	2'-5"	3'-6"
	POHA	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"	
	SECI	23	SERENDIPA 'CINEREA' / SILVER SAW PALMETTO	3 GAL.	2'-3"	2'-5"	24"-36"
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	HT.	SPR.	SPACING
	LACA	290	LANTANA CAMARA 'NEW GOLD' / NEW GOLD LANTANA	1 GAL.	10" - 12"	10" - 12"	12" o.c.
	MUCA	193	MULLENBERGIA CAPILLARIS / PINK MOULY	3 GAL.	14" - 16"	12" - 15"	30" o.c.
	SPA BAK	472	SPARTINA BAKERI / SAND CORD GRASS	3 GAL.	12" - 18"	10" - 12"	36" o.c.
	TRFL	199	TRIPSACUM FLORIDANUM / DWARF FANFAXATCHEE GRASS	3 GAL.	10" - 12"	6" - 8"	30" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	HT.	SPR.	SPACING
	DITA	74	DIANELLA TASMANICA 'VARIEGATA' / VARIEGATED FLAX LILY	1 GAL.	6" - 10"	10"-12"	18" o.c.
	DIVE	282	DIETES VEGETA / AFRICAN IRIS	3 GAL.	10"-12"	10" - 12"	24" o.c.
	SOD-2	197,423 SF	EREMOCHLOA OPHUROIDES / CENTPEDE GRASS	TURF			
	IRVI	44	IRIS VIRGINICA / BLUE FLAG IRIS WHEN IN WATER, NO MORE THAN 1" DEPTH	1 GAL.	6" - 10"	6" - 10"	18" o.c.
	TUVI	58	TULBAGHIA VIOLACEA / SOCIETY GARLIC	1 GAL.	6"-12"	6"-12"	18" o.c.
	SOD-1	50,621 SF	ZOYSIA JAPONICA 'EMPIRE' / EMPIRE ZOYSIA	TURF			



SCALE: 1" = 40'



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FL LC000094  
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850.391.0300 • Fax 850.398.1010 • www.woodpartners.com

NO.	DATE	DESCRIPTION	BY

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

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MARK L BAKER, RLA, ASLA  
FLORIDA CERTIFICATION NO. 6688778  
09/19/2019

**PLANTING PLAN**  
PROJECT NO.: 15-0513.004  
SCALE: AS SHOWN  
DATE: 9/19/2019  
DRAWING: LS02

**PLANTING DETAIL NOTES:**

- THE CONTRACTOR SHALL FERTILIZE ALL PLANT MATERIAL. FERTILIZATION WILL BE AS RECOMMENDED BY SOIL TESTS.
- THE CONTRACTOR SHALL APPLY A MYCORRHIZAL INOCULANT AND 100% ORGANIC STARTER FERTILIZER TO EACH NEW TREE PLANTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL APPLY ORGANIC HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ALL PLANTING BEDS.
- 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.
- 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.
- ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS OR REVISIONS WITHOUT THE OWNER'S REPRESENTATIVE APPROVAL.
- 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.
- 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.
- 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.
- IRRIGATION SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS AND BACKFLOW CONTROLLER, AND TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS.
- CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANTED AREAS IN ADDITION TO IRRIGATED AREAS FOR PLANT ESTABLISHMENT THROUGH WARRANTY PERIOD.
- 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.
- CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.
- PLANTS WITH BROKEN ROOT BALLS, BOUND ROOTS OR SUBSTANTIAL DAMAGE TO ANY PART SHALL BE REPLACED PRIOR TO PLANTING.
- 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.
- 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.
- NO TREE PLANTING SHALL OCCUR WITHIN APPLICABLE SIGHT DISTANCE TRIANGLE AREAS AS SPECIFIED BY DESIGN STANDARD INDEX 546 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.
- 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.
- 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:
  - KEEP ALL PLANTS INSTALLED AS SPECIFIED IN THESE PLANS.
  - KEEP ALL PLANTS UNDAUNAGED, INCLUDING FREE OF PESTS AND DISEASE, PROPERLY HYDRATED AND NOURISHED, TO SUPPORT TO GROWTH AND MAINTAIN FORM AND HABIT SPECIFIED IN THESE PLANS.
  - 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.
  - OPERATE AND MAINTAIN ALL COMPONENTS OF ANY IRRIGATION SYSTEM AS SPECIFIED IN THE PLANS WHEN INSTALLED AS PART OF THE CONTRACT.
  - OWNER WILL BE RESPONSIBLE FOR PAYMENT OF WATER UTILITY USAGE FOR IRRIGATION DURING THE WARRANTY AND MAINTENANCE PERIOD. CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF THE IRRIGATION SYSTEM AND ASSOCIATED COMPONENTS DURING THE WARRANTY AND MAINTENANCE PERIOD.
- ALL PLANT MATERIAL SHALL BE WARRANTED FOR A 12 MONTH 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 12 MONTH PERIOD, 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.
- PLANTS SHALL BE DEEMED DEAD IF THE TERMINAL LEADER DIES OR THE PLANT HAS LESS THAN 90% VIABLE LEAF SURFACE AREA.
- WHEN CONFLICTS EXIST BETWEEN THE SPECIFICATIONS AND THESE PLANS, THE SPECIFICATIONS SHALL PREVAIL.
- A MINIMUM OF 36 IN. OF CLEAR SPACE SHALL BE MAINTAINED TO PERMIT ACCESS TO (AND OPERATION OF) FIRE PROTECTION EQUIPMENT, FIRE DEPARTMENT INLET CONNECTIONS, AND/OR FIRE PROTECTION SYSTEM CONTROL VALVES.

**PLANTING SCHEDULE:**

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT
	ILAT	4	ILEX OPACA / AMERICAN HOLLY MIN. FL#1 PER FL G8S	FG B&B	2" CAL.	9'-12'
	JUS1	2	JUNIPERUS SILICICOLA / SOUTHERN RED CEDAR	FG B&B	2" CAL.	9'-12'
	MAGR	2	MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	9'-12'
	MAPR	5	MALUS X "PROFUSION" / PROFUSION CRAB APPLE	FG B&B	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 B&B	2" CAL.	9'-12'
	QUVI	14	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL#1 MIN.; SINGLE LEADER	FG B&B	4" CAL.	16" - 18"
	SAPA	12	SABAL PALMETTO / CABBAGE PALM 12" CLEAR TRUNK; ROOT REGENERATIVE; FL#1 MIN.	FG B&B		12" C.T.
	ULPA	2	ULMUS PARVIFOLIA "DRAKE" / DRAKE ELM FL#1 MIN.; SINGLE LEADER	FG B&B	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 B&B	2" CAL.	8' - 10'
	PIPA	8	PINUS PALUSTRIS / LONGLEAF PINE FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	12" - 14"
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT	SPR
	ILVO	49	ILEX VOMITORIA "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	RHODODENDRON INDICA "FORMOSA" / FORMOSA AZALEA	3 GAL.	24"-30"	24"-30"
	RHLS	29	RHODODENDRON 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 CAMARA "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
	DITA	74	DIANELLA TASMANICA "VARIEGATA" / VARIEGATED FLAX LILY	1 GAL.	6" - 10"	10"-12"
	DIVE	282	DIETES VEGETA / AFRICAN IRIS	3 GAL.	10"-12"	10" - 12"
	SOD-2	197,423 SF	EREMOCHLOA OPHIUROIDES / CENTIPEDE GRASS	TURF		
	IRVI	44	IRIS VIRGINICA / BLUE FLAG IRIS WHEN IN WATER, NO MORE THAN 1" DEPTH	1 GAL.	6" - 10"	6" - 10"
	TUVI	58	TULBAGHIA VIOLACEA / SOCIETY GARLIC	1 GAL.	6"-12"	6"-12"
	SOD-1	50,621 SF	ZOYSIA JAPONICA "EMPIRE" / EMPIRE ZOYSIA	TURF		

R	E	V	I	S	I	O	N	S	BY								
									DESCRIPTION								
									NO.								

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

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
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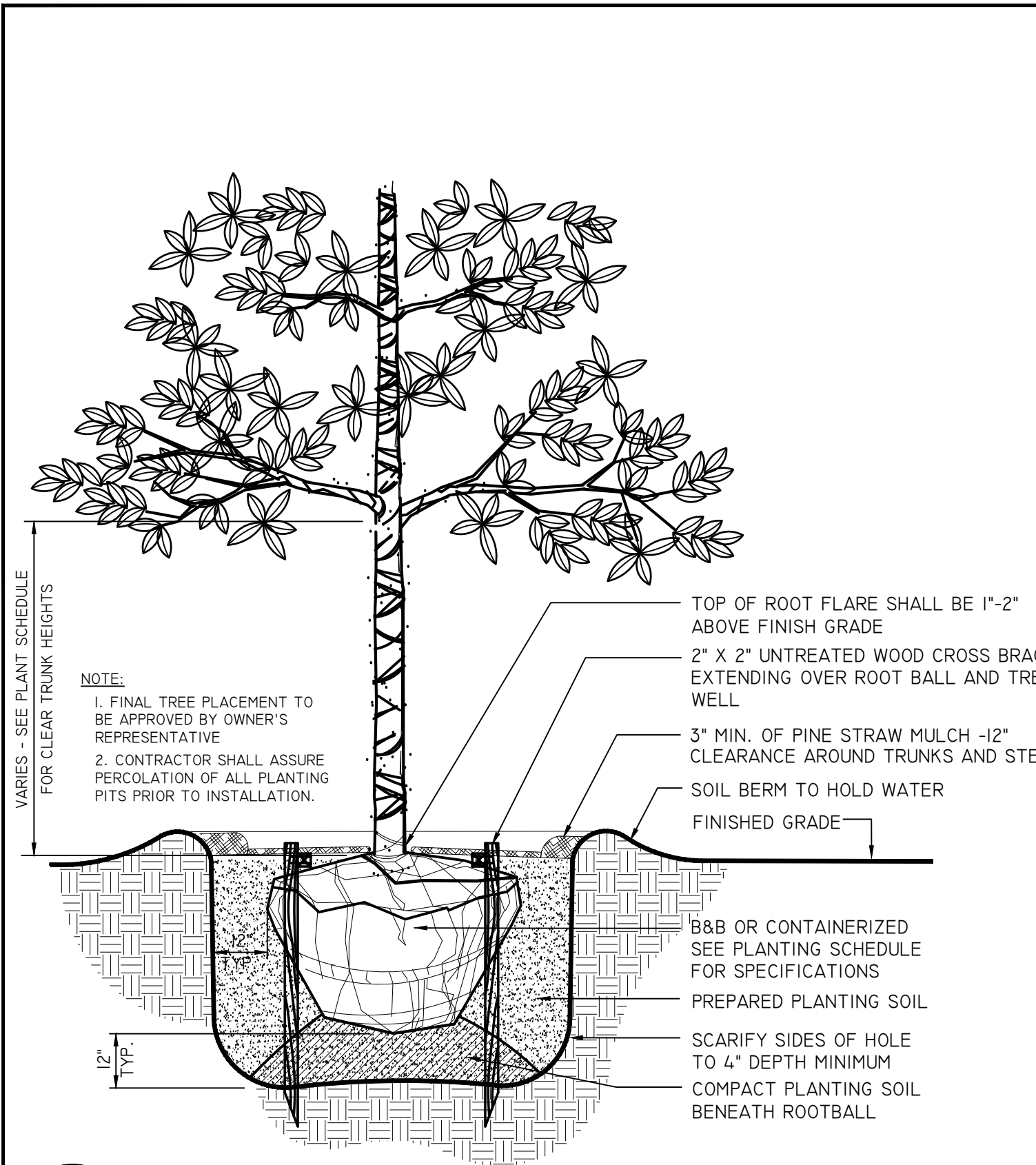
MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 6688778  
 08/19/2019

<b>PLANTING NOTES AND SCHEDULE</b>
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 9/19/2019
DRAWING: LS03

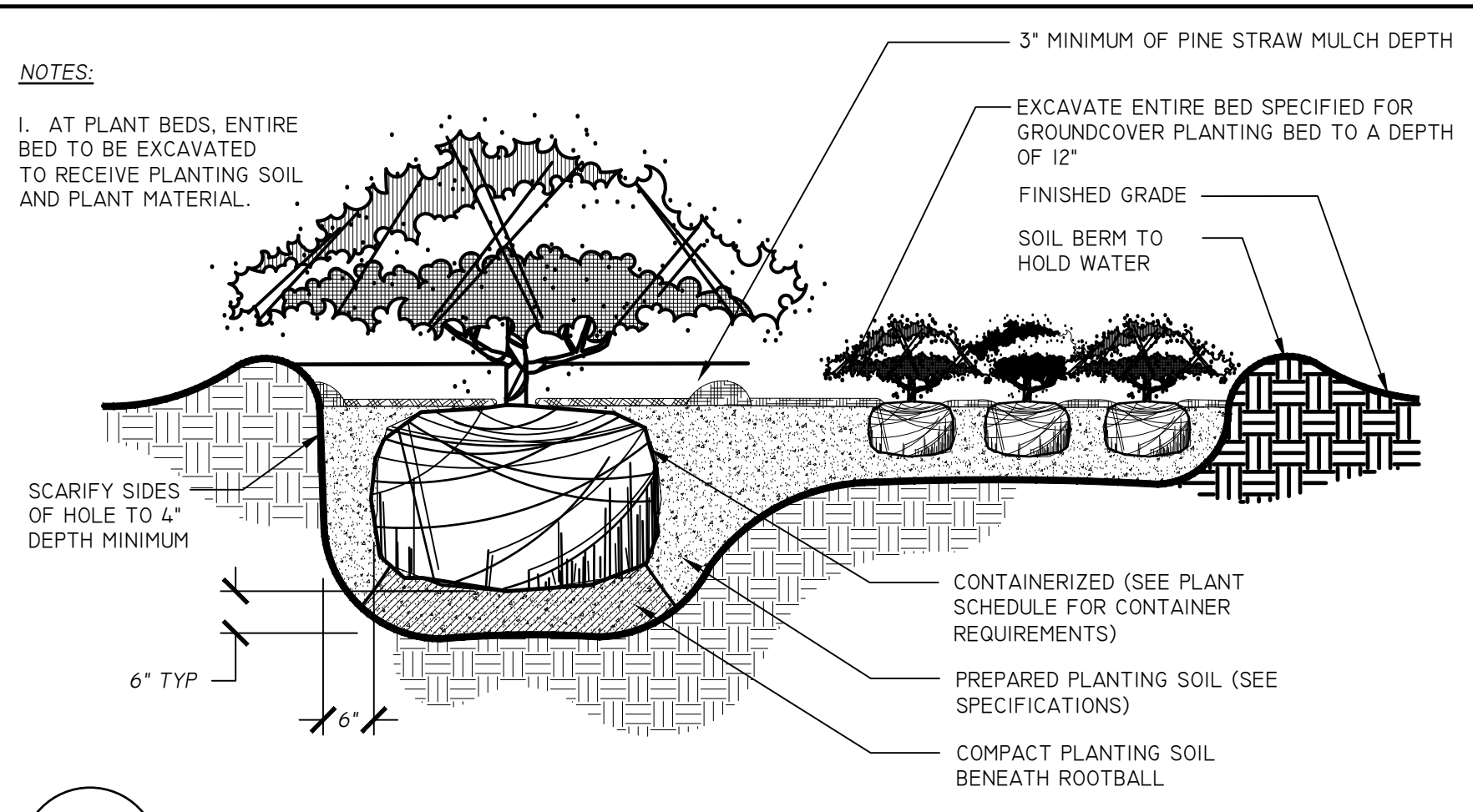
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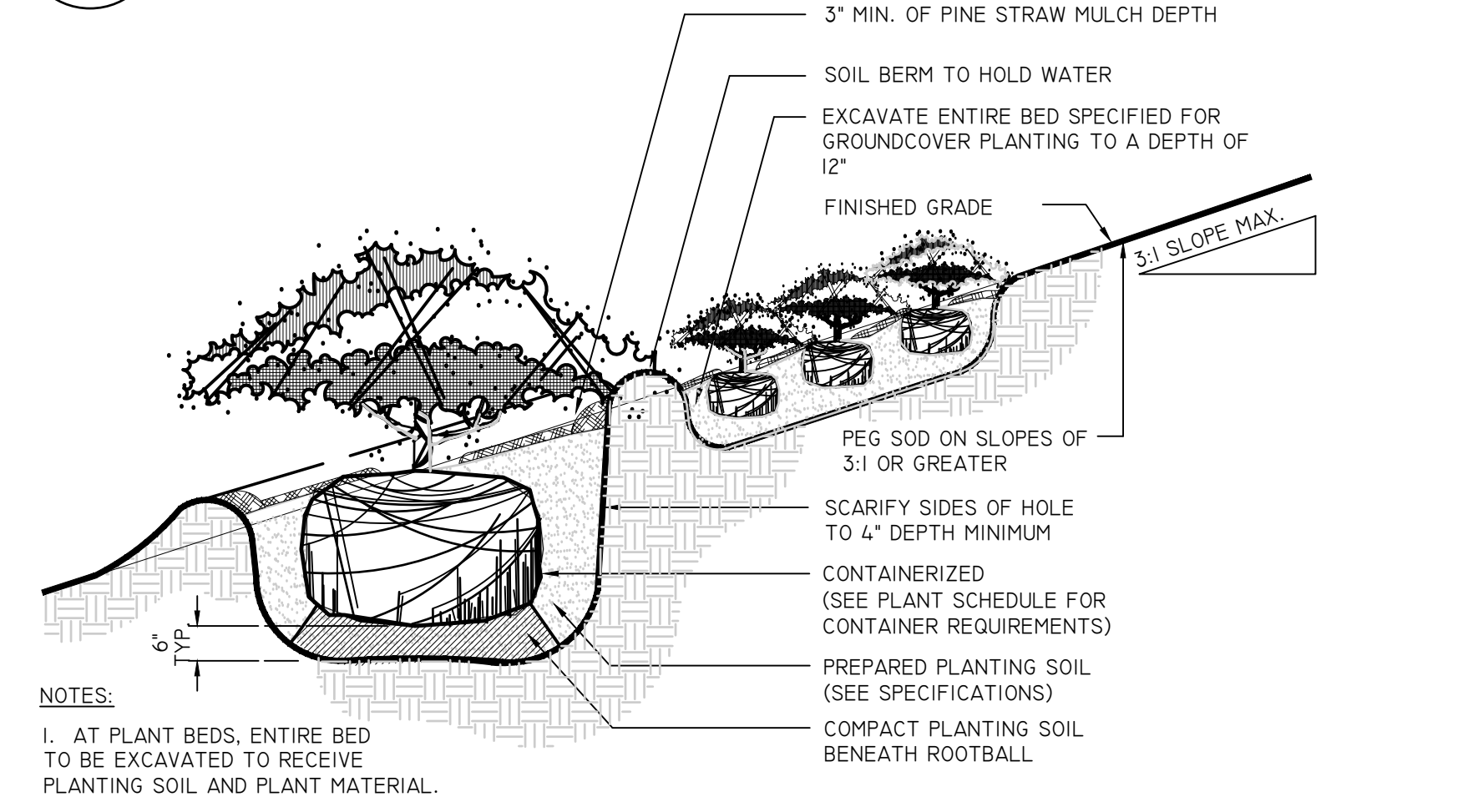
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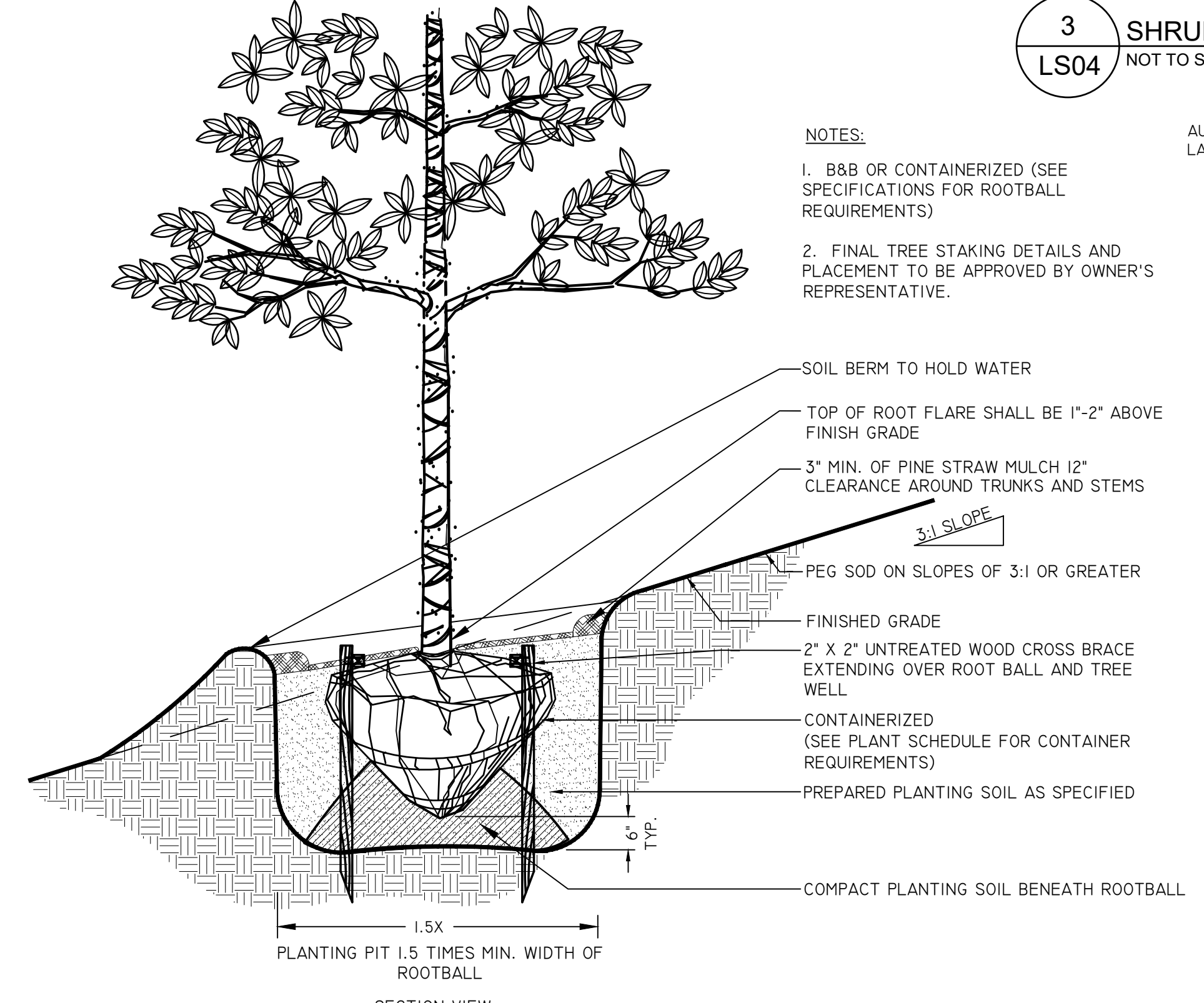
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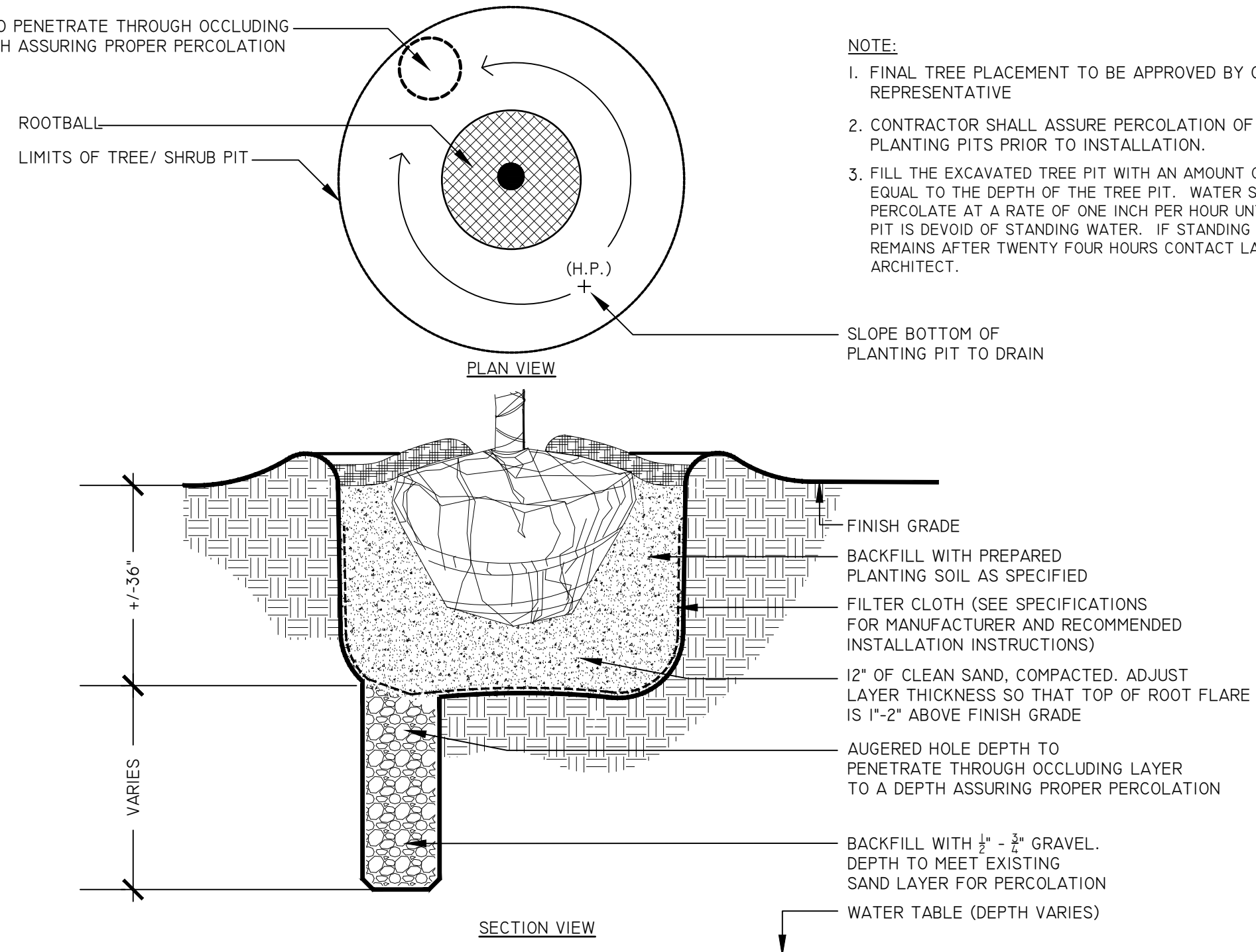
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LS04 NOT TO SCALE



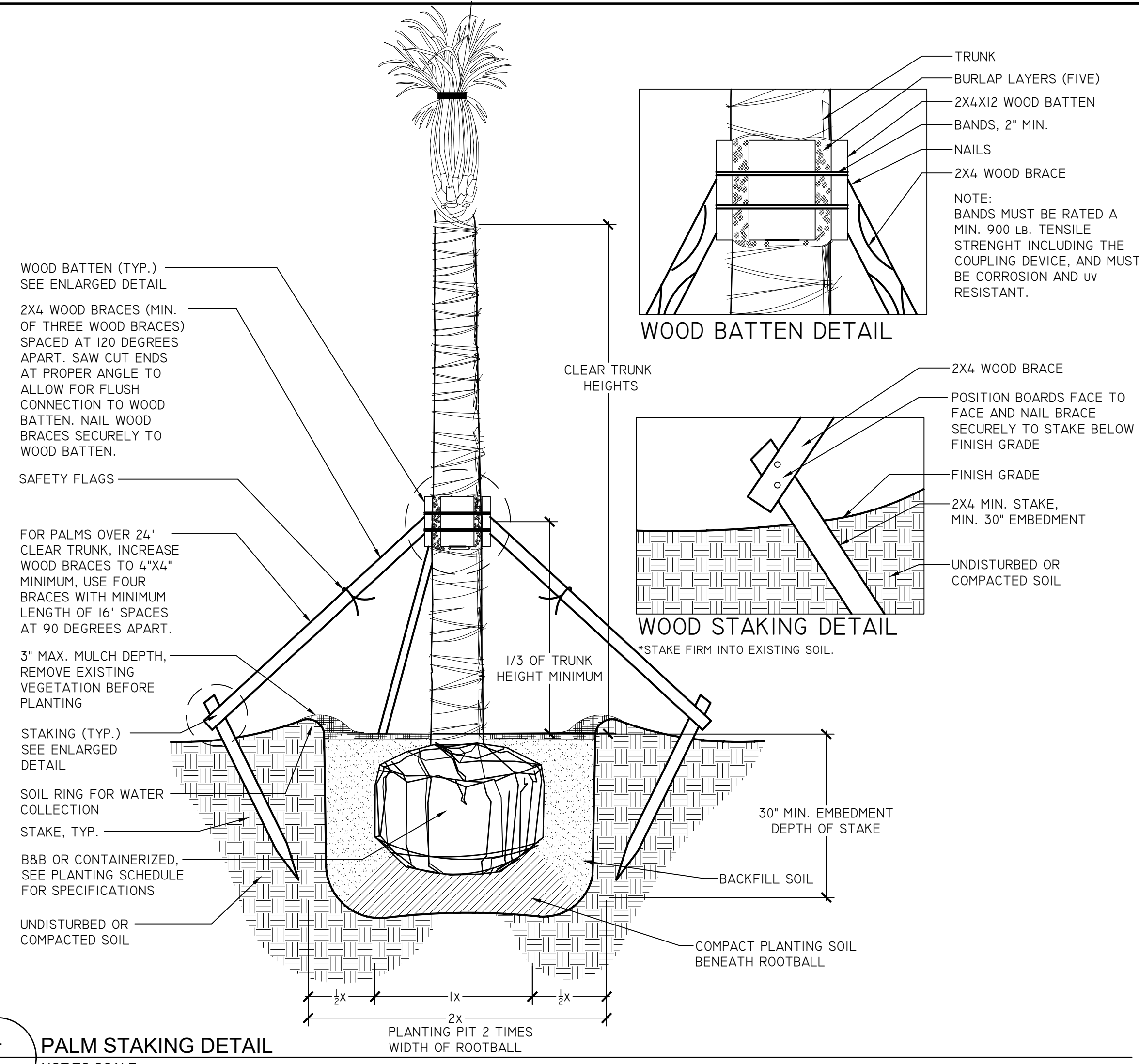
**3 SHRUB/ ORNAMENTAL GRASSES ON SLOPE PLANTING**  
LS04 NOT TO SCALE



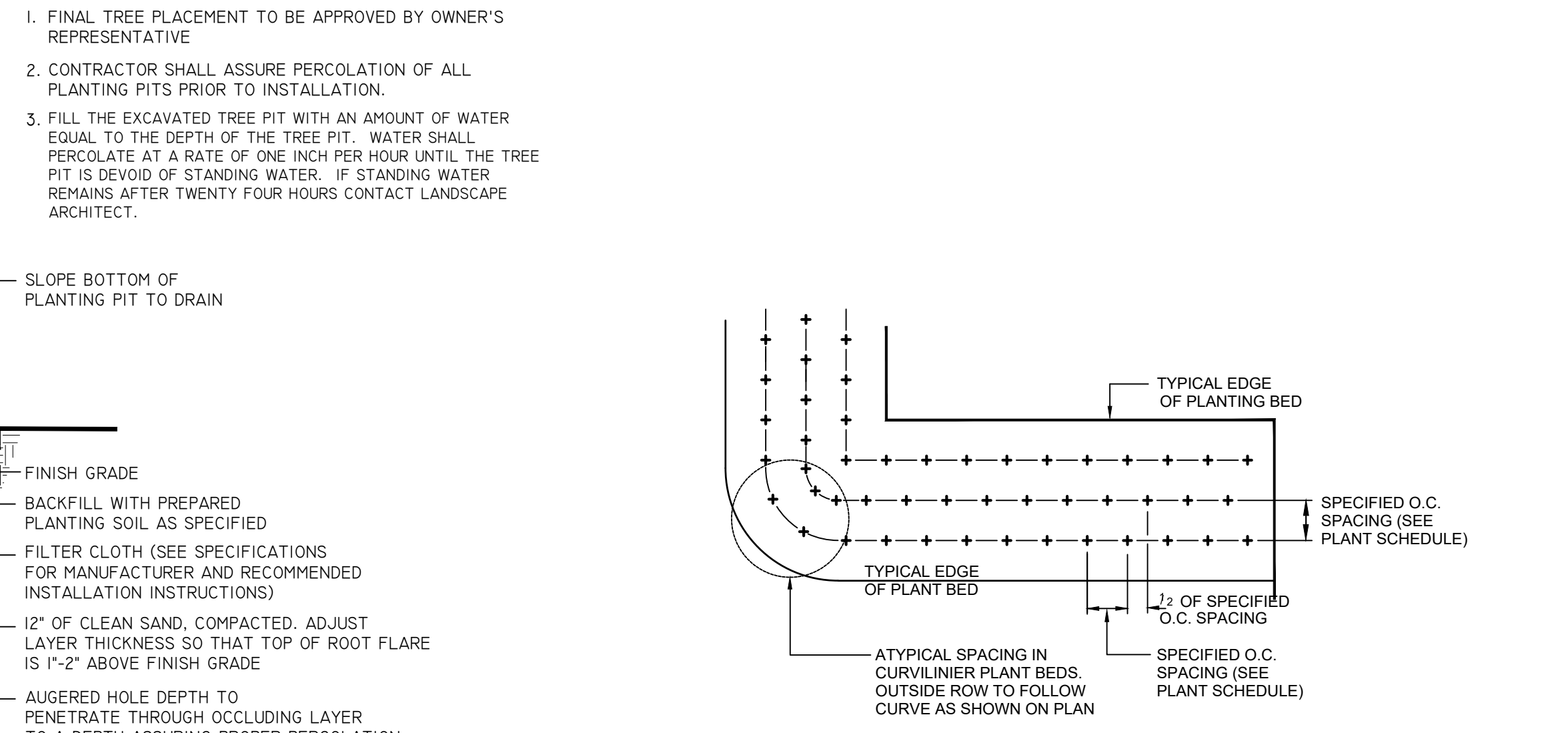
**5 SHADE TREE PLANTING ON SLOPE**  
LS04 NOT TO SCALE



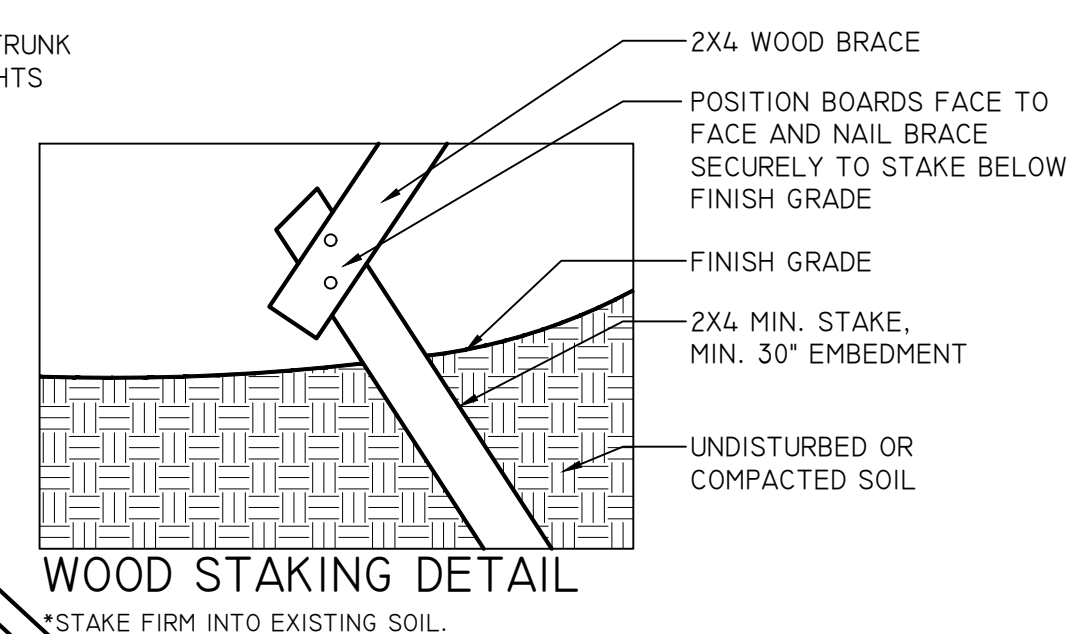
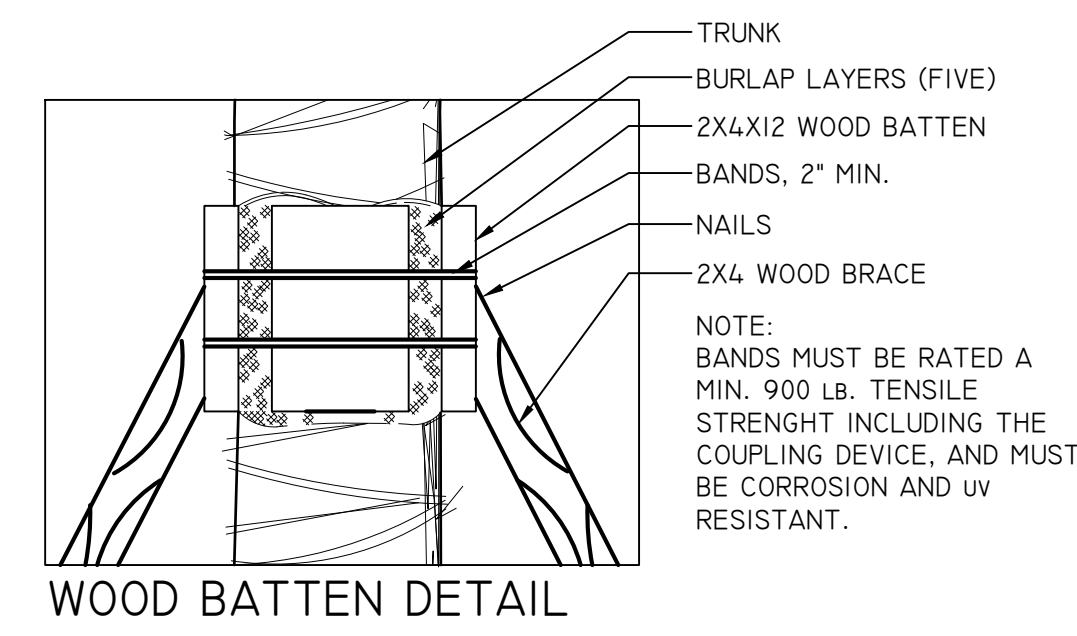
**6 PLANTING IN POOR SOILS**  
LS04 NOT TO SCALE



**4 PALM STAKING DETAIL**  
LS04 NOT TO SCALE



**7 GROUNDCOVER SPACING**  
LS04 NOT TO SCALE



REVISIONS	
NO.	DATE

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

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MARK L BAKER, RLA, ASLA  
FLORIDA CERTIFICATION NO. 668878  
09/19/2019

**PLANTING DETAILS**  
PROJECT NO.: 15-0513.004  
SCALE: AS SHOWN  
DATE: 9/19/2019  
DRAWING: LS04

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LANDSCAPE TECHNICAL MAINTENANCE PLAN												
Maintenance Operation	Operations noted herein shall be performed by the Owner . Assume responsibility for proper maintenance condition and plant health as set forth in the landscape plan.											
Week/Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mowing		X	X	XX	XX	XX	XX	XX	XX	XX		
	Mow twice per month beginning April 1 through October 31. Set mower height to avoid scalping the turf. No lower than 3 inches.											
Edging		X	X	XX	XX	XX	XX	XX	XX	XX		
	Owner to edge landscape planting beds, sidewalks, and curbs within project limits.			Edging by mechanical edger, same frequency as mowing.								
Recommended Watering Schedule	Trees (Watering Frequency)			Shrubs (Watering Frequency)			Watering General Notes					
	<2" Caliper	As provided for in the irrigation plans / system design.		As provided for in the irrigation plans / system design.			The Owner shall water all landscape plants and turf grass as needed after establishment to meet proper maintenance conditions as described in the landscape plan. Watering shall be the sole responsibility of the Owner and optional after a 12 month establishment period. The Owner shall water as required to ensure plant establishment using an irrigation system. Never apply irrigation if the soil is saturated. Supplemental watering is applied to encourage vigorous growth and plant establishment.					
	2-4" Caliper	As provided for in the irrigation plans / system design.										
>4" Caliper	As provided for in the irrigation plans / system design.											
	XX	XXY	XX	XX	XX	XXY	XX	XX	XX	XXY	XX	XX
Weed Control	Owner to weed all planting beds twice per month. Landscape areas shall be kept weed free.			Weeding of landscape areas utilizing appropriate selective and non-selective herbicides, applied as per manufacturer's specifications, under the supervision of a licensed applicator by FDACS. Application of herbicides shall be done with extreme caution to prevent damage to landscape and tree plantings. NOTE - Application of Snapshot granular herbicide at 200#/ acre rate as per manufacturer's specifications and limitations.								
Pruning	Must maintain Florida #1 or better form.			Pruning for trees, shrubs, and groundcovers to be performed in accordance with the ANSI A300 guidelines and FDOT design standard index 546. All trees within medians shall be pruned to maintain sight distance for vehicles and pedestrians. Additionally, prune trees as needed to remove dead, diseased, or broken branches, fronds, and seed heads.								
Fertilization	Trees and shrubs shall be fertilized using a slow release fertilizer that contains at least 50% of the available nitrogen in a slow release form. Fertilizer analysis shall be in a NPK ratio of 2-1-1, a t a rate recommended by soil fertility analysis.			Trees, shrubs, and ground covers are to be fertilized by top dressing the root zone of the plants and trees, using approved methods. All materials and performance of work shall meet Florida Friendly Best Management Practices for the Protection of Water Resources by the Green Industry and all other applicable state and federal health and safety laws.								
Litter Removal	X	X	X	XX	XX	XX	XX	XX	XX	XX	X	X
	Litter removal within the project limits. To be completed in conjunction with the mowing schedule, but immediately prior to mowing. The months of November, December, and January shall also have litter removed once per month.											
Mulching 3" Depth Pine Bark Nuggets	Mulch should be maintained year-round			Mulch shall be free of vegetative yard waste, plastic, glass, metal, palm fronds, sand, and other foreign materials. Mulch shall be consistent in appearance. Mulch shall be free from viable non-native seed, weed, and grass seed. Maintain a continuous 3" layer of mulch in all planted and mulched areas with the exception of trees. Mulch shall not cover the root ball of any landscape tree.								
Tree Staking	Stake and Guy trees at time of installation.			The Owner shall maintain, repair, and/or replace all staking materials as needed to keep trees upright and to prevent girdling. The Owner shall remove staking at the end of the one year establishment period or upon plan establishment. Refer to landscape details for staking and guying.								
Disease and Insect Control	X	X	X	X	X	X	X	X	X	X	X	X
	Owner to inspect all landscape material on a monthly basis for insects, mites, fungus, etc., and apply correct control products as needed per manufacturer's specification; to prevent landscape material from falling below the minimum maintenance condition outlined in the landscape plan and contract documents.											
Plant Material Replacement	The Owner shall replace all dead and substandard material (see Landscape plan and contract documents) in accordance with the Environmental Management Permit											

NO.	DATE	DESCRIPTION	BY

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

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

APALACHEE REGIONAL PARK  
 CROSS COUNTRY VENUE  
 INFRASTRUCTURE IMPROVEMENTS

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

MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 6688778  
 05/19/2019

LANDSCAPE MAINTENANCE PLAN  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 9/19/2019  
 DRAWING: LS05



DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE



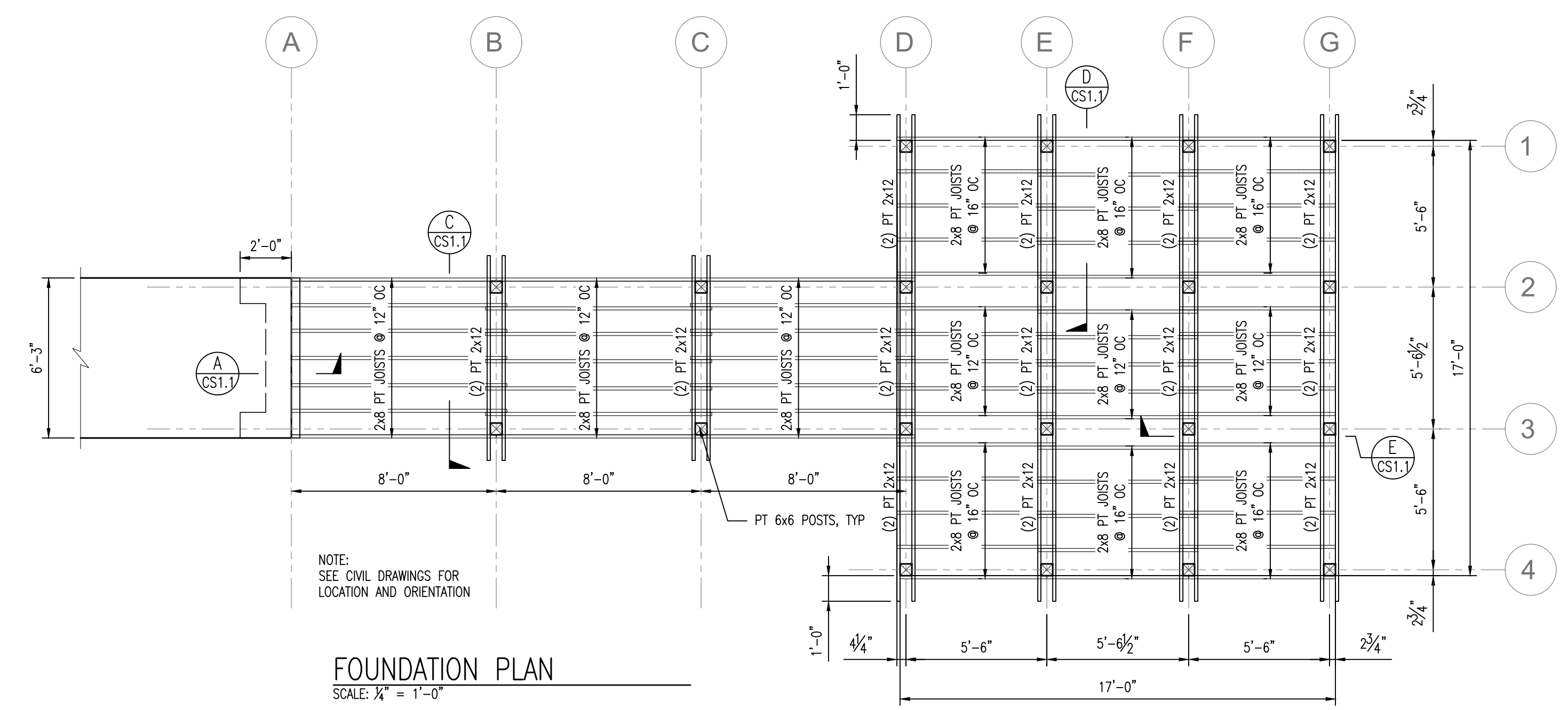
**STRUCTURAL NOTES**

1. GENERAL:
  - 1.1. UNLESS OTHERWISE SPECIFIED, ALL WORK AND MATERIALS SHALL CONFORM TO "FLORIDA BUILDING CODE" (FBC) REQUIREMENTS, 2017 EDITION.
  - 1.2. DO NOT SCALE DRAWINGS. USE DIMENSIONS AND DETAILS.
  - 1.3. THE GENERAL CONTRACTOR SHALL VERIFY THE DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
  - 1.4. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE DESIGN, ADEQUACY, SAFETY AND STABILITY OF ERECTION BRACING, FORMWORK, SHORING, AND TEMPORARY SUPPORTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - 1.5. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND FOR CONFORMANCE WITH THE HEALTH AND SAFETY PROVISIONS REQUIRED BY ANY REGULATORY AGENCIES. THE STRUCTURAL ENGINEER OF RECORD HAS NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR, OR THEIR EMPLOYEES WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS.
  - 1.6. STRUCTURAL SUBMITTALS:
    - 1.6.1. REPRODUCTION OF CONTRACT DOCUMENTS FOR ERECTION AND/OR SHOP DRAWINGS WILL NOT BE PERMITTED.
    - 1.6.2. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO QUANTITIES, MEMBER SIZES, DETAILS, AND THE DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISION.
2. DESIGN LOADS:
  - 2.1. LIVE LOADS
 

HANDRAIL/GUARDRAIL:	50 PLF/200 LB NON CONCURRENT*
BOARDWALK:	100 PSF
  - \* LOADS APPLIED IN ANY DIRECTIONS, NON-CONCURRENTLY
3. WIND LOAD
  - 3.1. ULTIMATE DESIGN WIND SPEED = 120 MPH
  - 3.2. RISK CATEGORY = II
  - 3.3. WIND EXPOSURE CATEGORY = C
  - 3.4. ENCLOSURE CLASSIFICATION = OPEN
4. SOIL:
  - 4.1. THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT FILE NO. 07-50-18-01, DATED APRIL 18, 2018 BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
  - 4.2. ALL SOIL BELOW SLABS-ON-GRADE AND AT GRADE FOOTINGS SHALL BE COMPACTED TO A DEPTH OF 12" AT OPTIMUM MOISTURE CONTENT TO 95% OF MODIFIED PROCTOR, ASTM D1557. REFER TO GEOTECHNICAL REPORT FOR SUB-GRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
5. SHALLOW FOUNDATIONS:
  - 5.1. FOOTING SIZES AND REINFORCEMENT ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF. ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL PREPARED PER THE GEOTECHNICAL REPORT.
  - 5.2. PROVIDE CRACK CONTROL JOINTS IN ALL FLOATING SLABS ON GRADE AT 15 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 225 SQ. FT. LOCATE TO CONFORM TO BAY SPACING WHENEVER POSSIBLE, ADD CRACK CONTROL JOINTS AT RE-ENTRANT CORNERS WHICH TEND TO INVITE CRACKS.
6. TIMBER PILES:
  - 6.1. TYPICAL PILES SHALL BE MIN 6x6 NO. 2 SOUTHERN YELLOW PINE AND INSTALLED AS SHOWN ON SHEET S1.1. U.N.O. FOR TYPICAL CONDITION WITH NO STANDING WATER. ANY PILES INSTALLED IN STANDING WATER SHALL BE MINIMUM 8x8 NO. 2 SOUTHERN YELLOW PINE INSTALLED TO A DEPTH OF 10 FEET BELOW GROUND SURFACE. PILES MAY BE JETTED OR DRIVEN FOR THE FIRST 6 FEET BUT MUST BE DRIVEN THE LAST 4 FEET. ALL CUT ENDS SHALL BE TREATED WITH COPPER NAPHTHENATE.
  - 6.2. ALL TIMBER PILES SHALL BE PRESSURE TREATED AS FOLLOWS:
    - 6.3.1. ACQ ALKALINE COPPER QUATERNARY 0.80 PCF
    - 6.3.2. CA COPPER AZOLE 0.40 PCF
7. CONCRETE:
  - 7.1. ALL CONCRETE WORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (A.C.I. 318-11). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI.
8. REINFORCING STEEL:
  - 8.1. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, WITH A MINIMUM SPLICE LENGTH OF 36 BAR DIAMETERS UNLESS INDICATED OTHERWISE.
  - 8.2. PROVIDE ADDITIONAL HORIZONTAL CORNER BARS TO MATCH MAIN HORIZONTAL REINFORCING STEEL AT ALL BEAMS, OR WALL INTERSECTIONS, CORNERS AND OTHER CONCRETE DIRECTIONAL CHANGES AND CORNERS, INCLUDING FOOTINGS.
9. TIMBER FRAMING:
  - 9.1. MISCELLANEOUS TIMBER FRAMING MEMBERS SHALL BE NO. 2 SOUTHERN PINE, OR STRONGER, EXCEPT PROVIDE NO. 1 SOUTHERN PINE FRAMING WHERE INDICATED.
  - 9.2. ALL FRAMING SHALL BE PRESERVATIVE TREATED MEMBERS AT ALL LOCATIONS WHERE IN CONTACT WITH MASONRY/CONCRETE OR WHERE EXPOSED TO WEATHER.
  - 9.3. ALL TIMBER PILES SHALL BE PRESSURE TREATED AS FOLLOWS:
    - 9.3.1. ACQ ALKALINE COPPER QUATERNARY 0.25 PCF
    - 9.3.2. CA COPPER AZOLE 0.15 PCF
  - 9.4. ALL FASTENERS INCLUDING NAILS, LAGS, THRU BOLTS, WASHERS AND NUTS SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
  - 9.5. PRE-DRILL HOLES FOR THRU BOLTS AT NOMINAL BOLT DIAMETER PLUS 1/16".
  - 9.6. PRE-DRILL LEAD HOLES FOR LAG SCREWS AS FOLLOWS:
    - 3/8" LAG SCREWS - LEAD HOLE TO BE 15/64".
    - 1/2" LAG SCREWS - LEAD HOLE TO BE 5/16".
  - 9.7. GLUED LAMINATED TIMBERS
    - 9.7.1. TIMBERS SHALL BE APPEARANCE GRADES CONFORMING TO AITC 110.
    - 9.7.2. TIMBERS SHALL BE FABRICATED FROM SOUTHERN PINE AND SHALL CONFORM TO AITC 117, "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES"
10. COMPOSITE DECKING:
  - 10.1. DECKING SHALL BE 5/4 NOMINAL, MANUFACTURED BY MOISTURE SHIELD OR APPROVED ALTERNATIVE.
  - 10.2. DECKING SHALL BE INSTALLED WITH 1/4" SIDE TO SIDE SPACING BETWEEN DECK BOARDS.
  - 10.3. INSTALL WITH 1/8" OR GREATER END-TO-END SPACING BETWEEN END OF BOARDS (BUTT JOINTS).
  - 10.4. WHERE APPLICABLE STAGGER THE BUTT JOINTS CONSISTENT VISUALLY. CONTRACTOR SHALL SISTER JOISTS WITH BLOCKING AT ALL BUTT JOINTS.
  - 10.5. FASTEN DECKING TO EACH SUPPORT WITH 3", #8 STAINLESS STEEL TRIM HEAD SCREWS, TWO PER BOARD AT EACH SUPPORT. SCREWS SHALL BE A MINIMUM OF 1/2" FROM THE BOARD END. SCREWS SHALL BE CONSISTENTLY PLACED FOR A UNIFORM SCREW PATTERN.

**LEGEND**

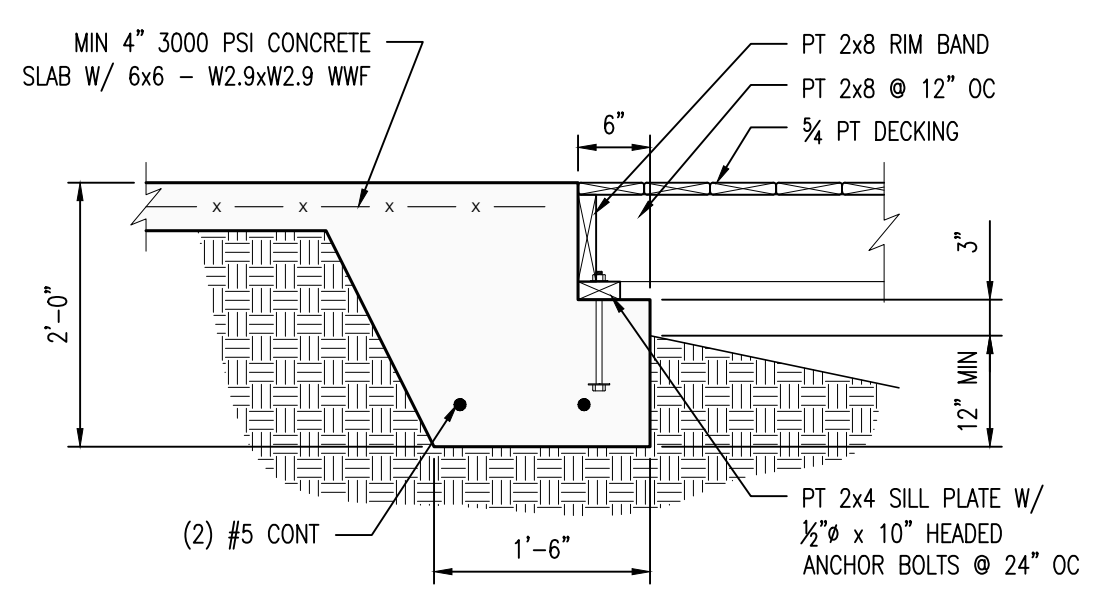
- |                                                     |                                     |
|-----------------------------------------------------|-------------------------------------|
| A.B. - ANCHOR BOLT                                  | L.L.V. - LONG LEG VERTICAL          |
| ADD'L - ADDITIONAL                                  | MAT'L - MATERIAL                    |
| B.B. - BOND BREAKER(30# FELT)                       | MB - METAL BUILDING                 |
| B/L - BUILDING LINE                                 | M.B. - MACHINE BOLT                 |
| BM. - BEAM                                          | M.D. - METAL DECK                   |
| BRG. - BEARING                                      | MAX. - MAXIMUM                      |
| B.S. - BOTTOM STEEL                                 | MFR. - MANUFACTURER                 |
| C.J. - CONSTRUCTION JOINT                           | MIN. - MINIMUM                      |
| C.J.1 - CONSTRUCTION JOINT AT NON-LOAD BEARING WALL | O.D. - OUTSIDE DIAMETER             |
| CL. - CLEAR                                         | OP.HD. - OPPOSITE HAND              |
| C.M.U. - CONCRETE MASONRY UNIT                      | P.T. - PRESSURE TREATED             |
| COL. - COLUMN                                       | R/C - REINFORCED CONCRETE           |
| CONT. - CONTINUOUS                                  | REINF. - REINFORCEMENT              |
| C.W.B. - CAPILLARY WATER BARRIER                    | REQ'R - REQUIREMENTS                |
| DBL. - DOUBLE                                       | S.C.J. - SAW CUT CONSTRUCTION JOINT |
| DN. - DOWN                                          | SGL. - SINGLE                       |
| EL. - ELEVATION                                     | S.L.V. - SHORT LEG VERTICAL         |
| E.O.A. - EDGE OF CONCRETE                           | SPA. - SPACES                       |
| EQ. - EQUAL                                         | S.S.T. - SIMPSON STRONG TIE         |
| E.J. - EXPANSION JOINT                              | STD. - STANDARD                     |
| FIN. - FINISH                                       | T&B - TOP AND BOTTOM                |
| FL. - FLOOR                                         | T.C. - TOP OF CONCRETE              |
| F.S. - FIELD SPLICE                                 | T.S. - THICKENED SLAB               |
| H.B. - HIGH BEAM                                    | TS - TOP STEEL                      |
| HORIZ. - HORIZONTAL                                 | TYP. - TYPICAL                      |
| H.S.A. - HIGH STRENGTH BOLT                         | U.N.O. - UNLESS NOTED OTHERWISE     |
| I.D. - INSIDE DIAMETER                              | V.B. - VAPOR BARRIER                |
| L.B. - LOW BEAM                                     | V.C.J. - VERTICAL CONTROL JOINT     |
| LG. - LONG                                          | V.E.J. - VERTICAL EXPANSION JOINT   |
|                                                     | W.P. - WORKING POINT                |
|                                                     | W.W.F. - WELDED WIRE FABRIC         |



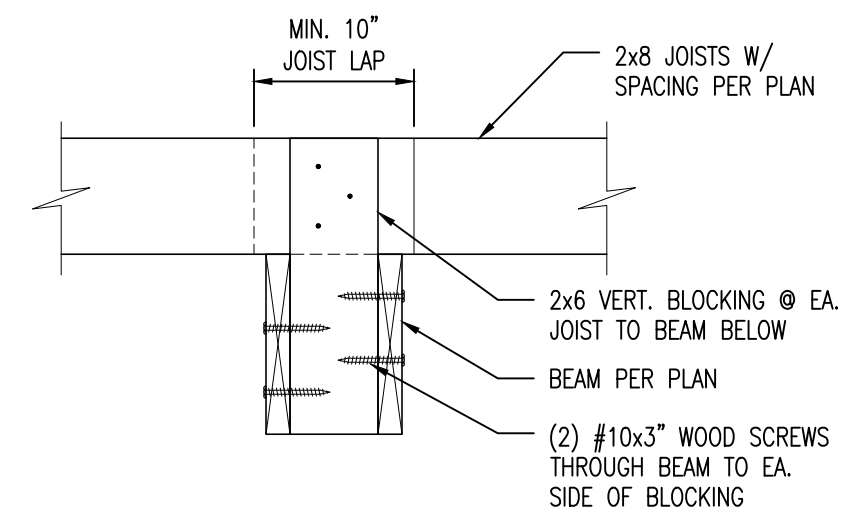
REVISIONS NO.   DATE   DESCRIPTION 1   06/07/19	BY	
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	DRAWN BY	
	CHECKED BY	
APPROVED BY		
LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501		
APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS		
 DRMP ENGINEERS + SURVEYORS + PLANNERS + SCIENTISTS Certificate of Authorization No. 2648 2882 Remington Green Circle Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM		
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PATRICK M. MCKEE, P.E. Florida Engineer #63122 PROJECT NO.: 15-0513.004 SCALE: AS SHOWN DATE: 02/01/19 DRAWING: CS0.1		



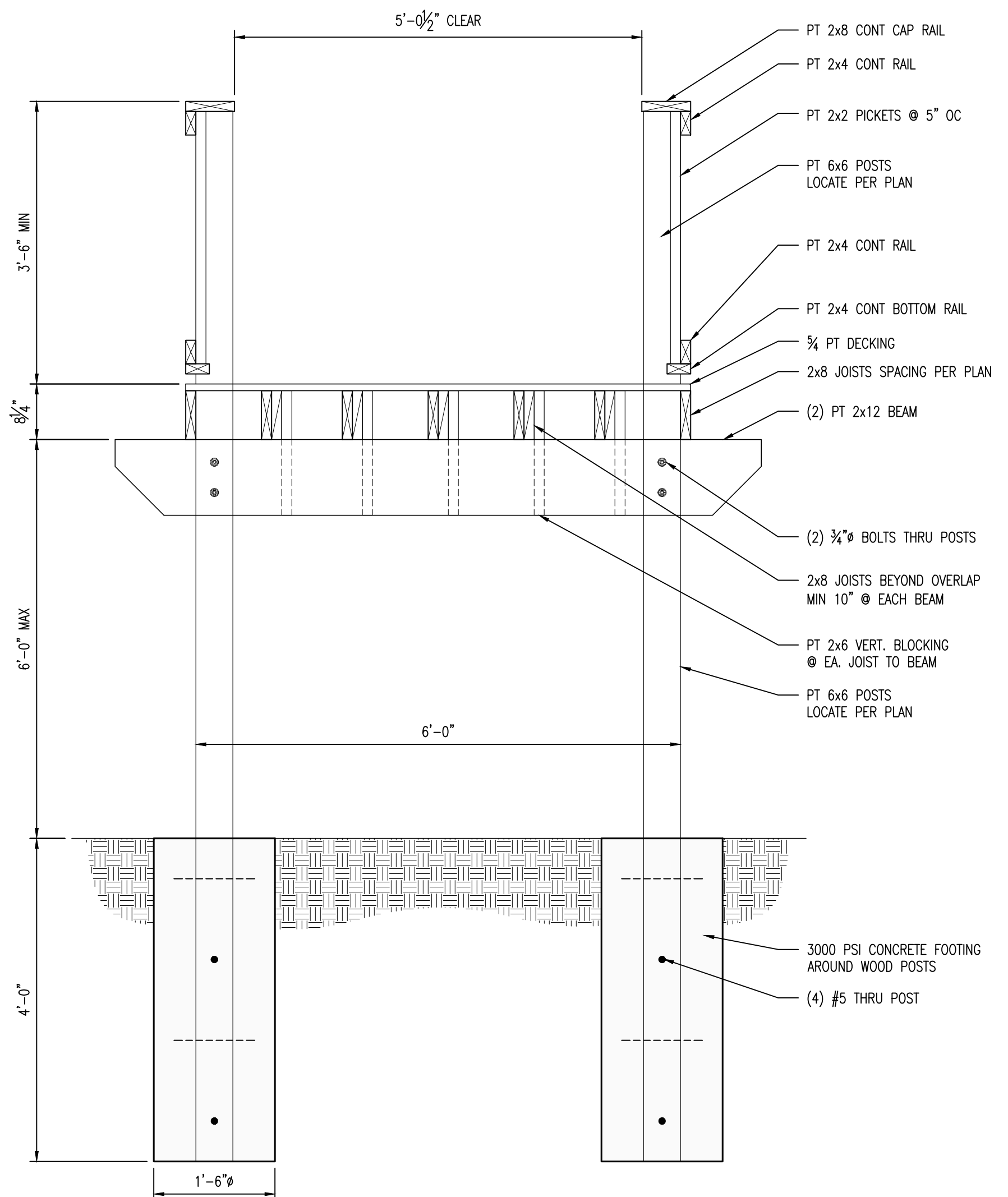
3370 Capital Circle NE, Ste. F  
 Tallahassee, Florida 32308  
 Office: 850.727.5367  
 Authorization No. 31293



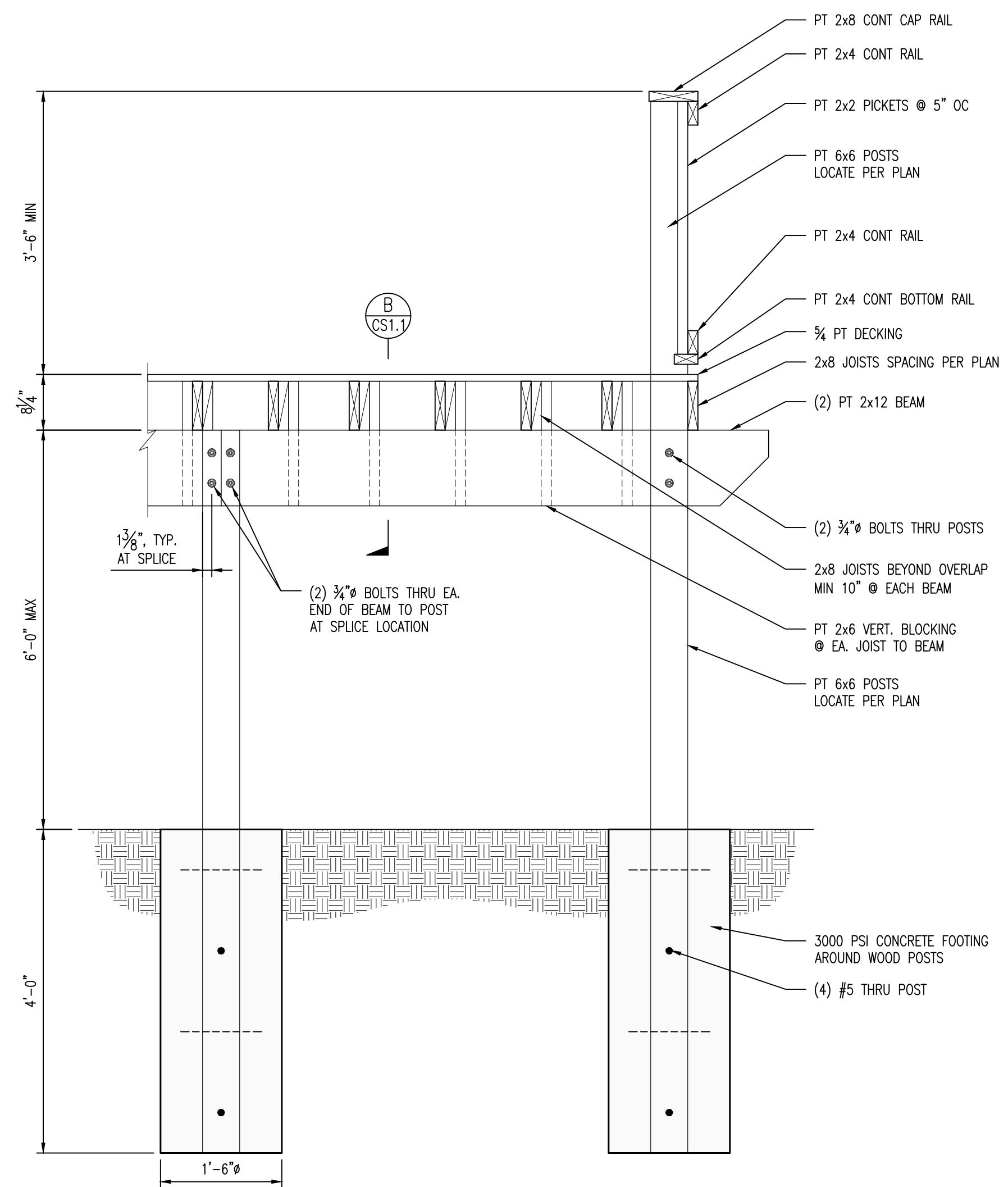
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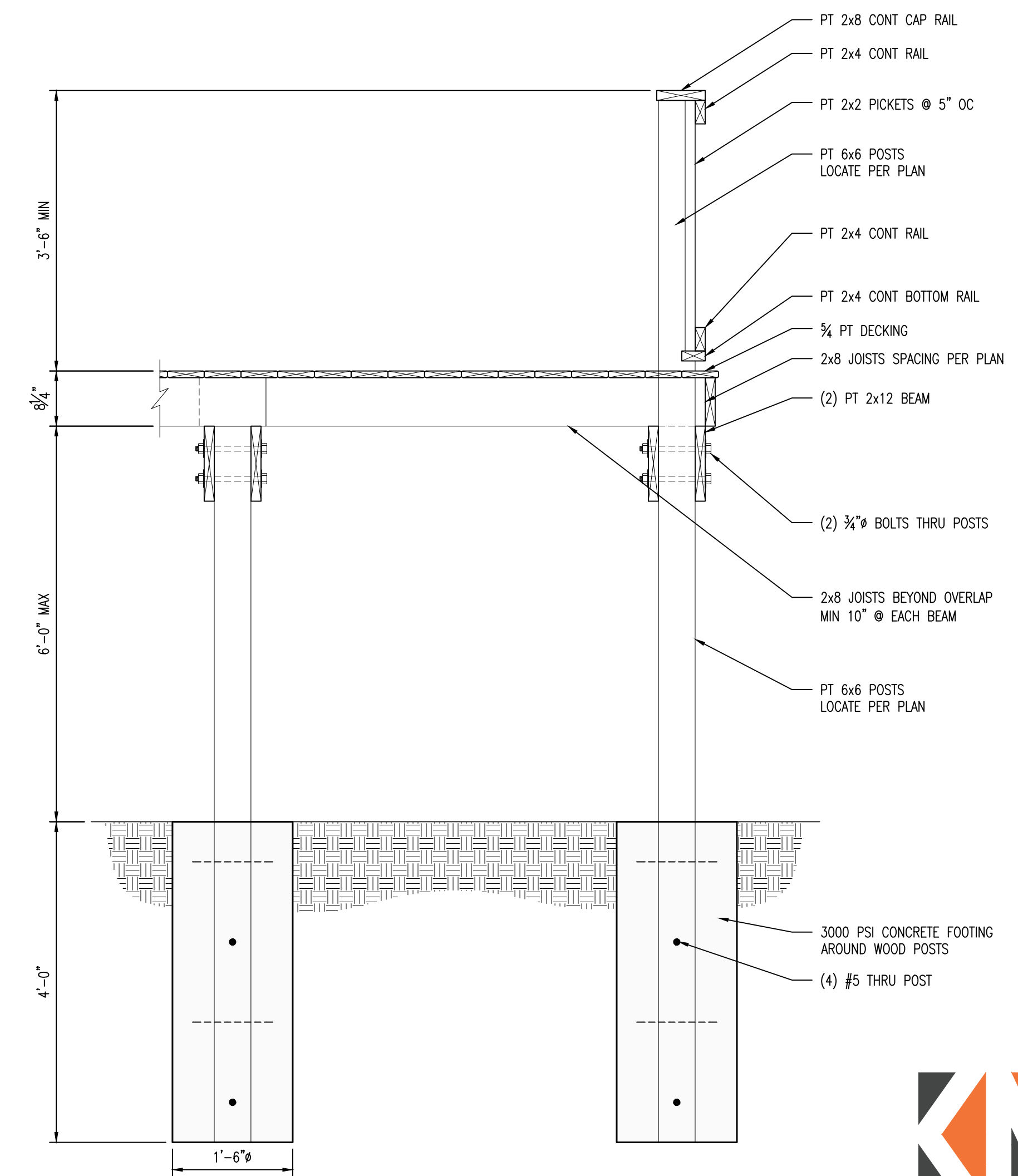
JOIST TO BEAM CONNECTION (B) CS1.1  
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WALKWAY SECTION (C) CS1.1  
SCALE: 3/4"=1'-0"



DECK SECTION (D) CS1.1  
SCALE: 3/4"=1'-0"



DECK SECTION (E) CS1.1  
SCALE: 3/4"=1'-0"

TYP OVERLOOK DETAILS

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
BVP	BVP	PMI	PMI

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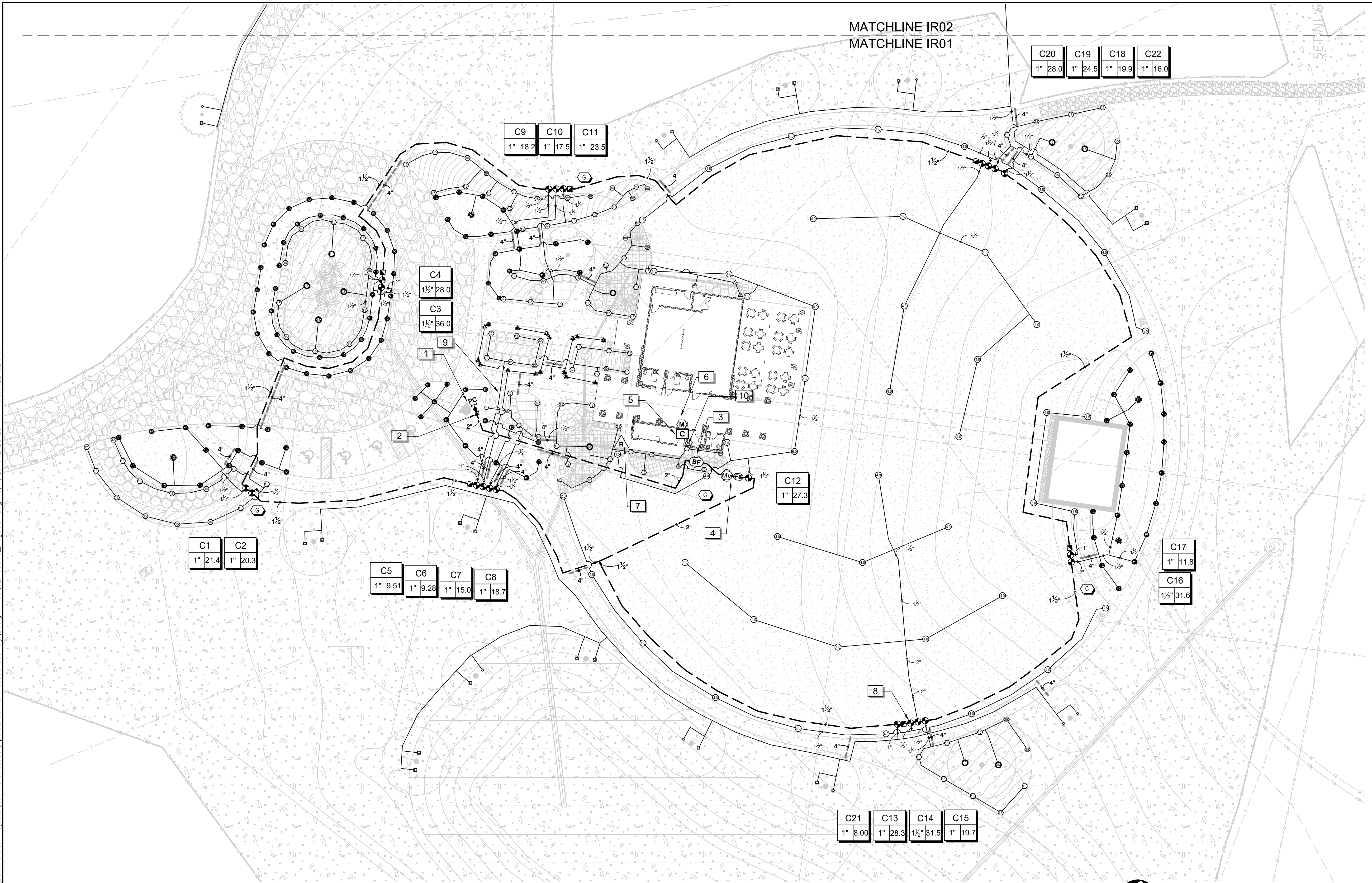
APALACHEE REGIONAL PARK  
CROSS COUNTRY VENUE  
INFRASTRUCTURE  
IMPROVEMENTS  
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**KEVER MCKEE ENGINEERING**  
3370 Capital Circle NE, Ste. F  
Tallahassee, Florida 32308  
Office: 850.727.5367  
Authorization No. 31293

PATRICK M. MCKEE, P.E. Florida Engineer #63122
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 02/01/19
DRAWING: CS1.1

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C20	C19	C18	C22
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C9	C10	C11
1" 18.2	1" 17.5	1" 23.5

C4
1 1/2" 28.0
C3
1 1/2" 36.0

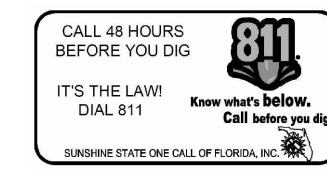
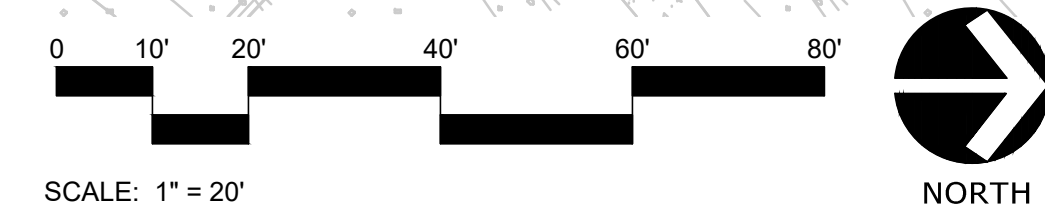
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C5	C6	C7	C8
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C12
1" 27.3

C17
1" 11.8
C16
1 1/2" 31.6

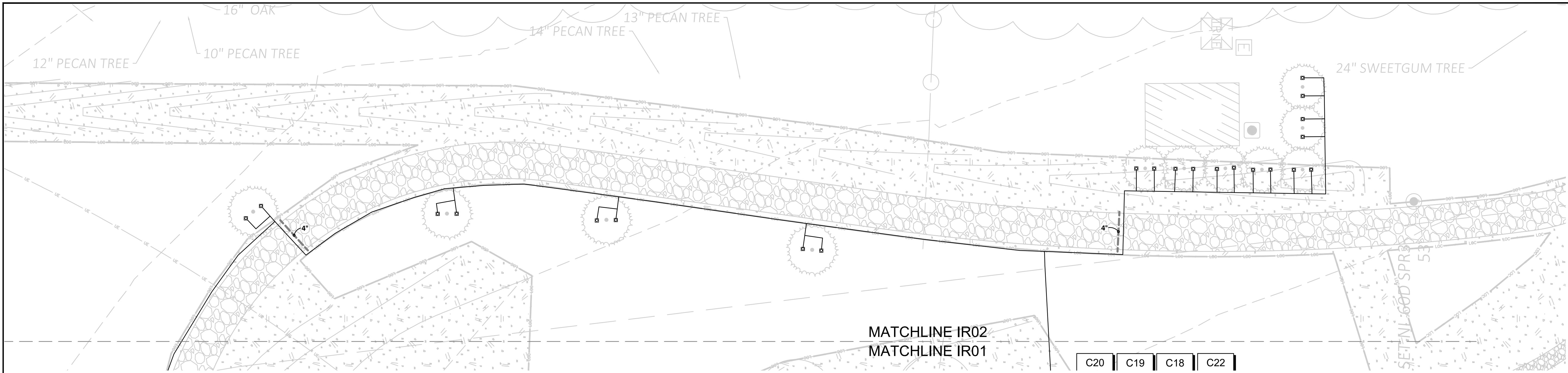
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1" 8.00	1" 28.3	1 1/2" 31.5	1" 19.7



	<p><b>DRMP</b> ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS</p> <p>Certificate of Authorization No. 2648 2882 Remington Green Circle Tallahassee, Florida 32308 Phone 850.562.3600 WWW.DRMP.COM</p>	<p>MICHAEL CLARK, C.D., IA IA CERTIFICATION NO. 570 09/19/2019</p>
<p><b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b> 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501</p>		
<p><b>APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS</b></p>		
<p>DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE</p>		
PROJECT NO.:	15-0513.004	
SCALE:	AS SHOWN	
DATE:	9/19/2019	
DRAWING:	IR01	

NO.	DATE	DESCRIPTION	BY

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



NO.	DATE	DESCRIPTION	BY

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

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 Certificate of Authorization No. 2648  
 2882 Remington Green Circle Tallahassee, Florida 32308  
 Phone 850.562.5600 WWW.DRMP.COM

MICHAEL CLARK, C.D., IA  
 IA CERTIFICATION NO. 579  
 09/19/2019

PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 9/19/2019  
 DRAWING: IR02

MATCHLINE IR02  
 MATCHLINE IR01

C20 | C19 | C18 | C22

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	Irrigation system point of connection to be the 3" water line into the site. Install a tee of like materials, and a line sized isolation valve for irrigation system shut-off.
2	Irrigation system water requirement is 36 gpm at a static pressure of 60 psi. Verify flow and pressure prior to construction. If either may be insufficient notify the owners representative.
3	Install an insulated Hubbell "Hot Box", green in color, over the backflow preventer on a concrete pad as per manufacturers details.
4	Install Master Valve(MV) and Flow Sensor(FS) as per plan details and manufacturers instructions.
5	Coordinate the exact location of the controller with the owners representative. Provide 120v 10 amp power to the controller from a dedicated circuit. Install as per plan notes, details and manufacturers instructions.
6	Install cellular data modem and any other Rain Bird equipment necessary to establish connection to Rain Bird's IQ3 remote access platform. Coordinate IQ connection with county personnel.
7	Coordinate the exact location of the rain freeze sensor with the owners representative. Install and program as per plan detail and manufacturers instructions.
8	Each control valve to have its own single station decoder.
9	Pipe location is diagrammatic. Install all pipe and control wire as per plan notes and details.
10	All 2-wire control wire to be in 1" PVC SCH 40 electrical conduit from the controller to the MV/FS location.

IRRIGATION SCHEDULE

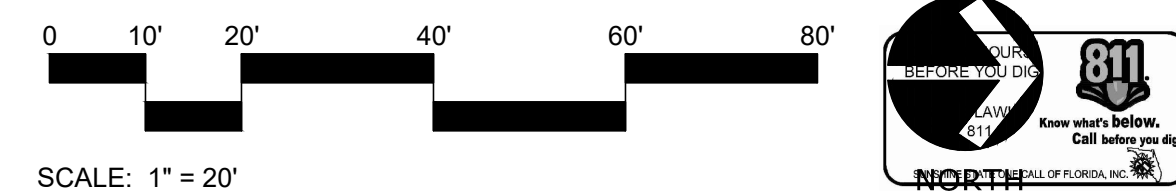
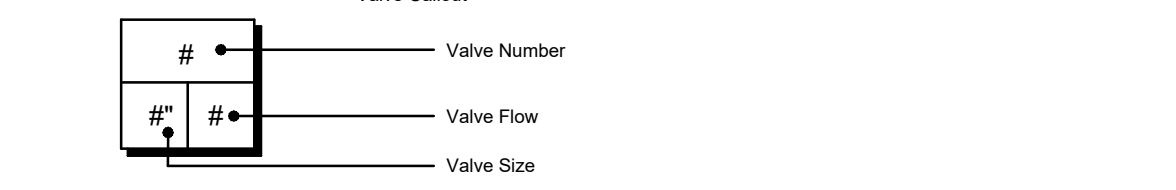
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
EST LCS RCS CST SST	Rain Bird 1804-SAM-PRS 15 Strip Series Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.
Q T H F	Rain Bird 1804-SAM-PRS 10 Series MPR Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.
Q T H TQ F	Rain Bird 1804-SAM-PRS 12 Series MPR Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.
Q T H TQ F	Rain Bird 1804-SAM-PRS 15 Series MPR Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.
8 12HE-VAN 10HE-VAN 15HE-VAN	Rain Bird 1804-SAM-PRS HE-VAN Series Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.
EST LCS RCS CST SST	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H F	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
8 12HE-VAN 10HE-VAN 15HE-VAN	Rain Bird 1812-SAM-PRS HE-VAN Series Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
1401 1402 1404 1408	Rain Bird 1806-SAM-PRS-1400 Flood 1401 Flood Bubbler 6.0" pop up with check valve and pressure regulator

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
1.5	Hunter I-20-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
2.0	Hunter I-20-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
2.5	Hunter I-20-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
4.0	Hunter I-20-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
5.0	Hunter I-20-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
6.0	Hunter I-20-04-SS Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.

IRRIGATION SCHEDULE

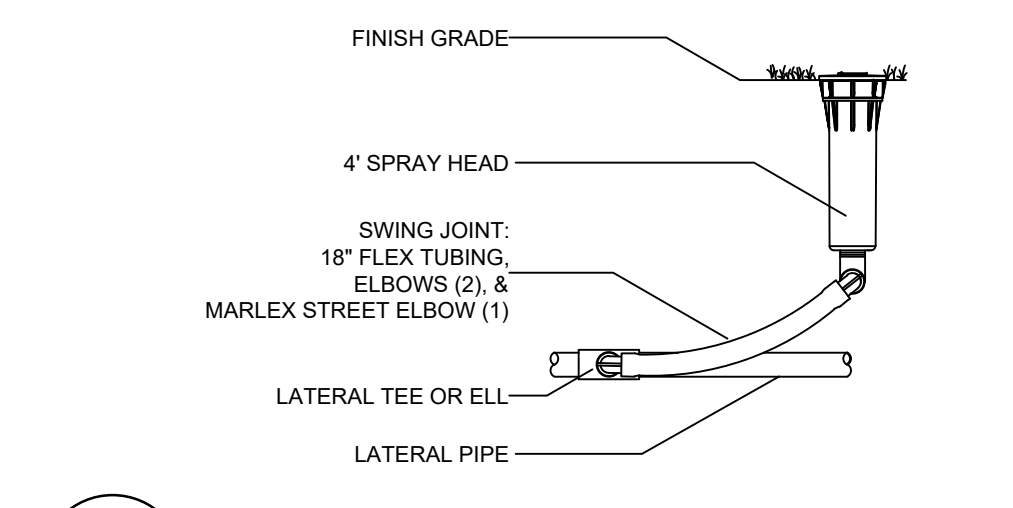
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
☉	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration, With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
☑	Hunter HQ-44LRC-AW 1" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, Double Track Key Lug, anti-rotation wings and 2-Piece Body.
✕	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"
MV	Buckner-Superior 3100 1-1/2" Normally Open Brass Master Valve that Provides Dirty Water Protection. Available in 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2" and 3".
BF	Febco 825YA 2" Reduced Pressure Backflow Preventer
C	Rain Bird ESP-LXD Two-Wire Decoder Commercial Controller. 50 Stations. UV-Resistant, Outdoor-Rated, Plastic Locking Wall-Mountable Case. Available in the US market, International, European, or Australian Markets.
M	Rain Bird IQ-NCC-3G IQ NCC 3G Cellular Data Modem Cartridge upgrades ESP-LX Series controllers to IQ satellite controller.
R	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.
FS	Rain Bird FS-150-B 1-1/2" Flow Sensor for use with Rain Bird Maxicom, SiteControl, and ESP-LXD Central Control Systems. Brass Model. Suggested Operating Range of 2.0 GPM to 82.6 GPM. Sensors should be sized for flow rather than pipe size.
G	2-Wire Grounding Point Install as per plan detail and manufactures instructions.
PC	Point of Connection 3"

— Irrigation Lateral Line: PVC Schedule 40  
 - - - Irrigation Mainline: PVC Class 200 SDR 21  
 - - - Pipe Sleeve: PVC Schedule 40

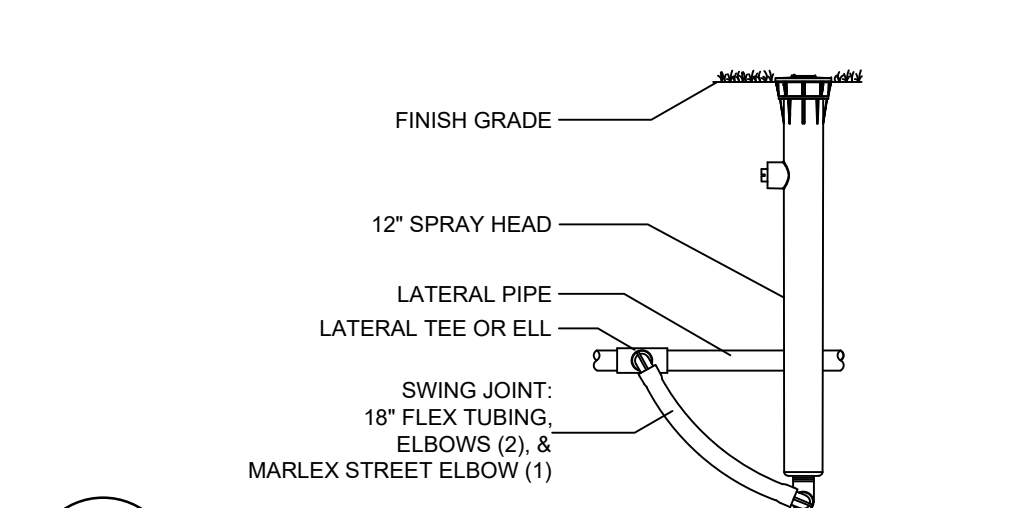


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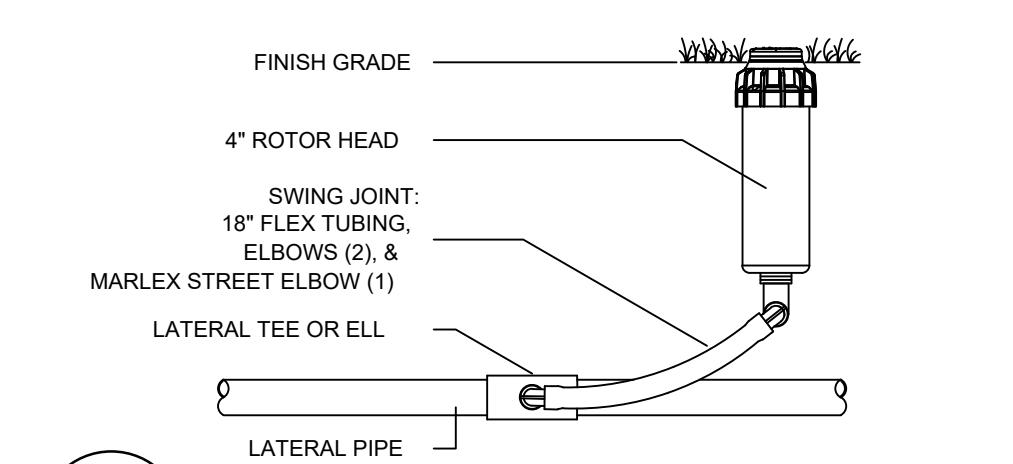
Wood+Partners Inc. WPI  
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 1211 Miccosukee Rd Tallahassee, FL 32308  
 850.391.0360 Fax 850.386.1010 www.woodandpartners.com



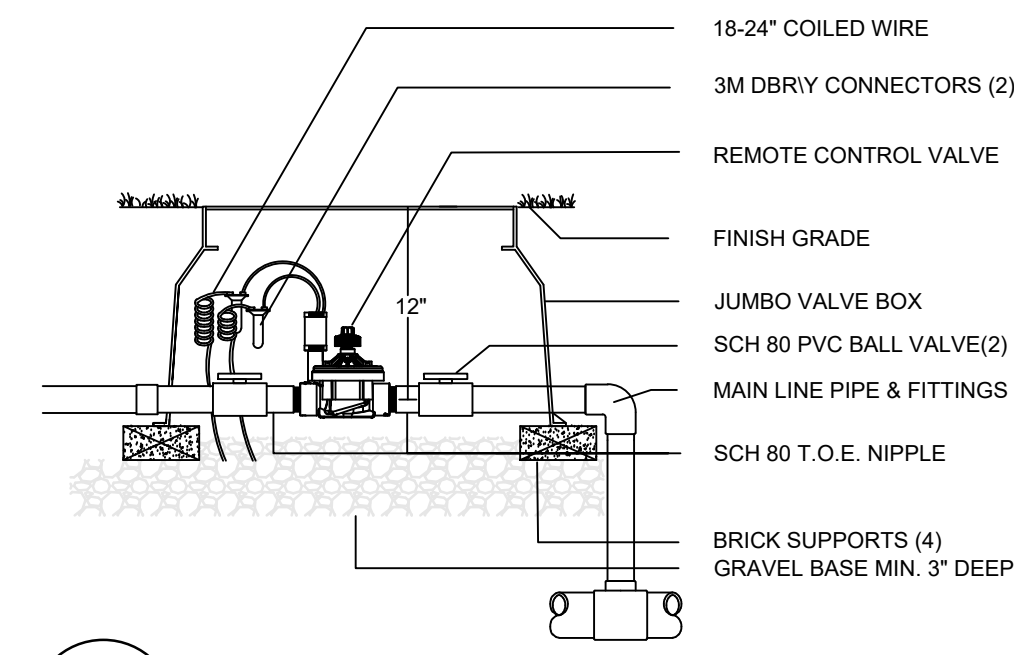
**1** 4" SPRAY BODY  
NTS



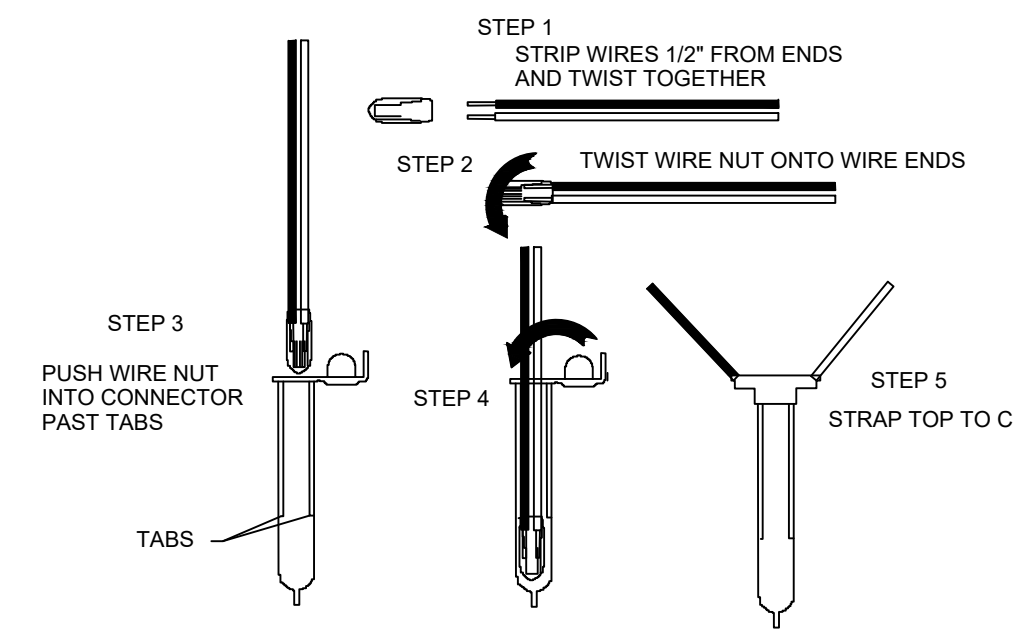
**2** 12" SPRAY BODY  
NTS



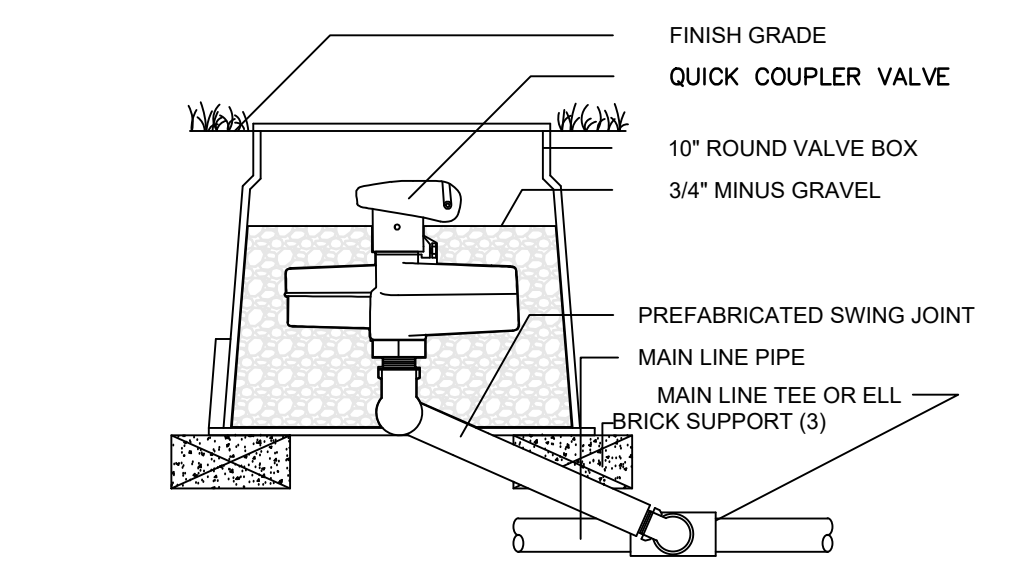
**3** 3/4" INLET ROTOR  
NTS



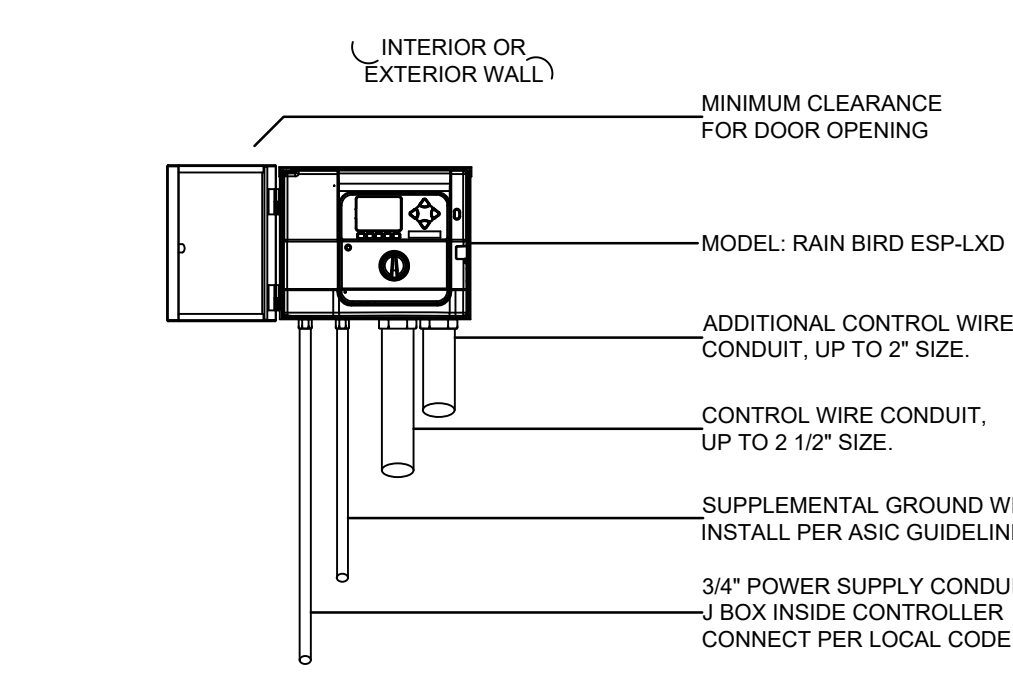
**4** ELECTRIC CONTROL VALVE  
NTS



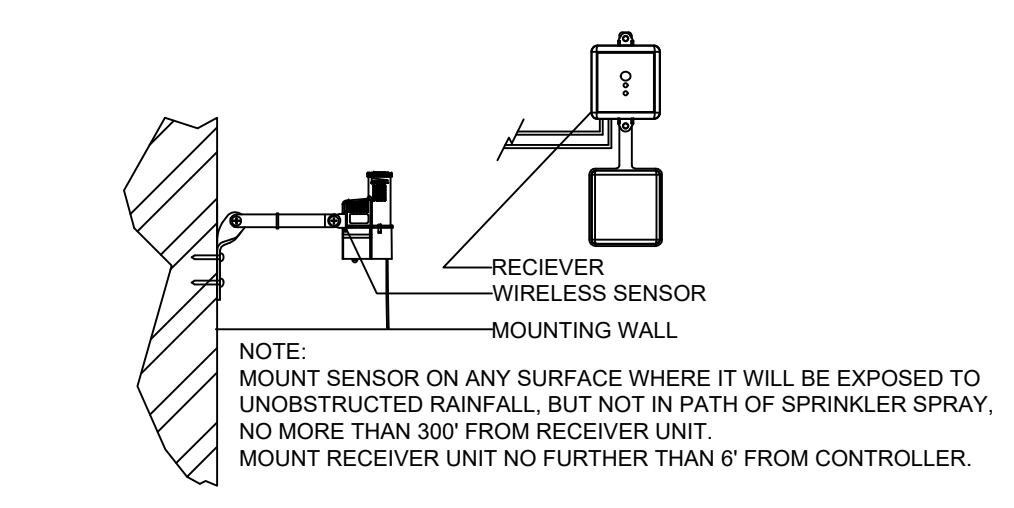
**5** WIRE CONNECTION 3M-DBR6-Y  
NTS



**6** QUICK COUPLER VALVE  
NTS



**7** WALL MOUNT CONTROLLER  
NTS



**8** WIRELESS RAIN SENSOR  
NTS

**IRRIGATION MANAGEMENT NOTES**

1. MAXIMUM VELOCITY IN THE PIPING SYSTEM NOT TO EXCEED 5 FEET PER SECOND.
2. AFTER GROW IN OPERATE THE IRRIGATION SYSTEM VIA RAIN BIRD IQ2 ET PARAMETERS. ADJUST CONTROL SYSTEM PROGRAMMING TO ENSURE PLANT MATERIAL REMAIN HEALTHY WHILE USING AS LITTLE WATER AS POSSIBLE.

**VALVE SCHEDULE**

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
C1	Rain Bird PESB	1"	Turf Spray	21.45	34.07	48.65	1.43 in/h
C2	Rain Bird PESB	1"	Shrub Spray	20.33	34.11	48.47	1.42 in/h
C3	Rain Bird PESB	1-1/2"	Turf Spray	35.98	35.09	54.19	1.67 in/h
C4	Rain Bird PESB	1-1/2"	Shrub Spray	28.02	35.44	52.07	1.28 in/h
C5	Rain Bird PESB	1"	Shrub Spray	9.51	33.66	46.68	1.46 in/h
C6	Rain Bird PESB	1"	Turf Spray	9.28	33.30	46.31	1.58 in/h
C7	Rain Bird PESB	1"	Turf Spray	15.04	32.85	46.23	1.32 in/h
C8	Rain Bird PESB	1"	Shrub Spray	18.72	34.46	48.13	1.24 in/h
C9	Rain Bird PESB	1"	Turf Spray	18.23	33.39	47.90	1.38 in/h
C10	Rain Bird PESB	1"	Shrub Spray	34.25	34.25	48.63	1.38 in/h
C11	Rain Bird PESB	1"	Shrub Spray	23.48	34.81	50.49	1.44 in/h
C12	Rain Bird PESB	1"	Turf Rotor	27.30	42.24	55.98	0.70 in/h
C13	Rain Bird PESB	1"	Turf Rotor	28.30	43.52	59.43	0.48 in/h
C14	Rain Bird PESB	1-1/2"	Turf Rotor	31.50	40.54	57.25	0.22 in/h
C15	Rain Bird PESB	1"	Shrub Spray	19.71	33.80	48.04	1.40 in/h
C16	Rain Bird PESB	1-1/2"	Turf Spray	31.64	35.31	52.85	1.49 in/h
C17	Rain Bird PESB	1"	Turf Rotor	11.80	38.86	52.32	0.79 in/h
C18	Rain Bird PESB	1"	Shrub Spray	19.86	34.15	48.97	1.43 in/h
C19	Rain Bird PESB	1"	Turf Rotor	24.50	41.94	57.89	0.52 in/h
C20	Rain Bird PESB	1"	Turf Rotor	28.00	42.66	59.59	0.22 in/h

**EXAMPLE SUMMER WEEKLY WATERING SCHEDULE**

NUMBER	MODEL	TYPE	PRECIP	IN/WEEK	MIN/WEEK	GAL/WEEK	GAL/DAY
C1	Rain Bird PESB	Turf Spray	1.43 in/h	1.10	47	1,008	
C2	Rain Bird PESB	Shrub Spray	1.42 in/h	0.80	34	691.2	
C3	Rain Bird PESB	Turf Spray	1.67 in/h	1.10	40	1,439	
C4	Rain Bird PESB	Shrub Spray	1.28 in/h	0.80	38	1,065	
C5	Rain Bird PESB	Shrub Spray	1.46 in/h	0.80	33	313.8	
C6	Rain Bird PESB	Turf Spray	1.58 in/h	1.10	42	389.8	
C7	Rain Bird PESB	Turf Spray	1.32 in/h	1.10	51	766.9	
C8	Rain Bird PESB	Shrub Spray	1.24 in/h	0.80	39	730.1	
C9	Rain Bird PESB	Turf Spray	1.38 in/h	1.10	48	875.2	
C10	Rain Bird PESB	Shrub Spray	1.38 in/h	0.80	35	612.4	
C11	Rain Bird PESB	Shrub Spray	1.44 in/h	0.80	34	798.5	
C12	Rain Bird PESB	Turf Rotor	0.70 in/h	1	86	2,348	
C13	Rain Bird PESB	Turf Rotor	0.48 in/h	1	125	3,538	
C14	Rain Bird PESB	Turf Rotor	0.22 in/h	1	278	8,757	
C15	Rain Bird PESB	Shrub Spray	1.40 in/h	0.80	35	689.8	
C16	Rain Bird PESB	Turf Spray	1.49 in/h	1.10	45	1,424	
C17	Rain Bird PESB	Turf Rotor	0.79 in/h	1	76	896.8	
C18	Rain Bird PESB	Shrub Spray	1.43 in/h	0.80	34	675.3	
C19	Rain Bird PESB	Turf Rotor	0.52 in/h	1	115	2,818	
C20	Rain Bird PESB	Turf Rotor	0.22 in/h	1	268	7,504	
TOTALS:					1,503	37,339	

**TWO WIRE CONTROL SYSTEM NOTES**

1. ALL 2-WIRE CONTROL WIRE TO BE INSTALLED IN 1" PVC ELECTRICAL CONDUIT.
2. ALL DECODER WIRE SPLICE CONNECTORS TO BE 3M DBR1Y-6 OR BETTER.
3. ALL DECODER TO VALVE SOLENOID SPLICE CONNECTORS TO BE 3M DBR1Y-6 OR BETTER
4. ALL GROUNDING POINTS TO BE INSTALLED INLINE AS PER MANUFACTURER'S REQUIREMENTS, AS PER DETAIL, IN LOCATION SHOWN ON THE PLAN.
5. ALL CONTROL SYSTEM PRODUCTS TO BE INSTALLED AND OPERATED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND OR REQUIREMENTS.
6. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONTROL SYSTEM INSTALLATION TRAINING PRIOR TO PROJECT START, NOTIFY IRRIGATION CONSULTANT AND OR LANDSCAPE ARCHITECT WHEN TRAINING HAS BEEN COMPLETED.
7. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS NECESSARY TO OBTAIN MANUFACTURERS 5 YEAR WARRANTY. PROVIDE 5 YEAR WARRANTY IN WRITING PRIOR TO SUBSTANTIAL COMPLETION.
8. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR TRAINING OWNERS STAFF, AS NEEDED, ON THE OPERATION AND MAINTENANCE OF THE CONTROL SYSTEM.
9. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COMPLETE PROGRAMMING AND OPERATION OF THE CONTROL SYSTEM FOR 6 MONTHS FROM THE DAY THE CONTROLLER BECOMES FUNCTIONAL. CONTRACTOR TO PROVIDE THE OWNERS REPRESENTATIVE A XCEL SPREAD SHEET THAT SHOWS EACH PROGRAM, OPERATIONAL DAYS AND RUN TIMES PER ZONE.
10. CONTROLLER AND FLOW SENSOR ARE TO BE PROGRAMMED TO READ OVER-FLOW, UNDER-FLOW AND NO-FLOW CONDITIONS.
11. INSTALL 14 GA PE JACKETED BLUE TRACER WIRE IN ALL MAINLINE TRENCHES, MAKE WIRE ACCESSIBLE IN ALL CONTROL VALVE BOXES.

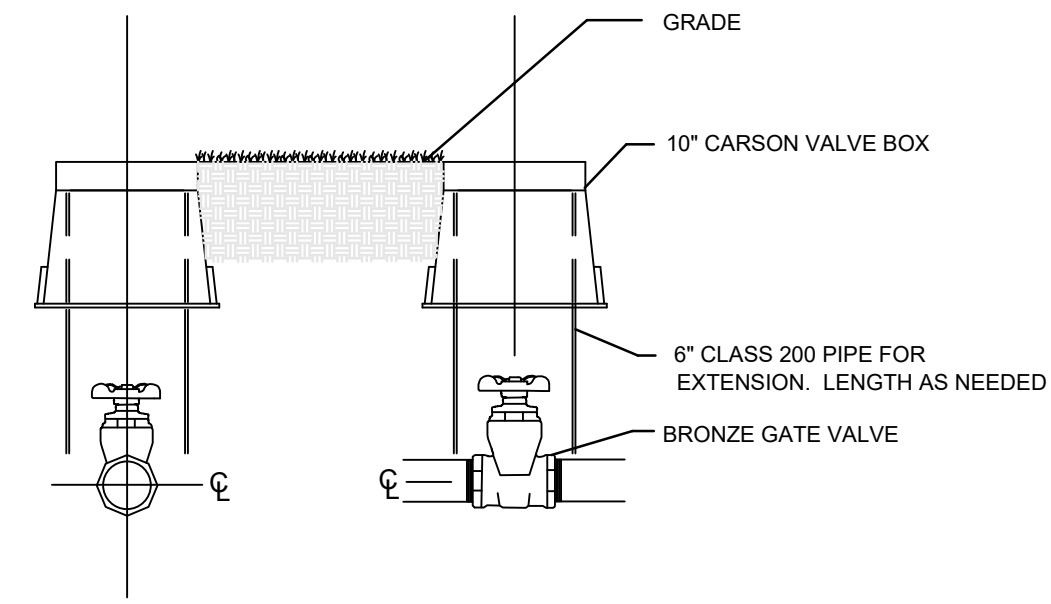
**CONTROLLER INSTALLATION NOTES**

1. IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE.
2. PROVIDE 120VAC 10 AMP POWER TO JUNCTION BOX AT CONTROLLER LOCATION.
3. IRRIGATION CONTRACTOR TO HARD WIRE CONTROLLER TO POWER SUPPLY AS PER PREVAILING CODE.
4. CONTROLLER TO BE SECURELY ATTACHED TO THE WALL USING METALLIC FASTENERS MADE FOR WALL TYPE.
5. ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC ELECTRICAL CONDUIT.
6. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL POTENTIAL WALL PENETRATIONS AND THE SEALING OF THOSE PENETRATIONS.
7. CONTROLLER TO BE GROUNDED AS PER MANUFACTURERS RECOMMENDATIONS.

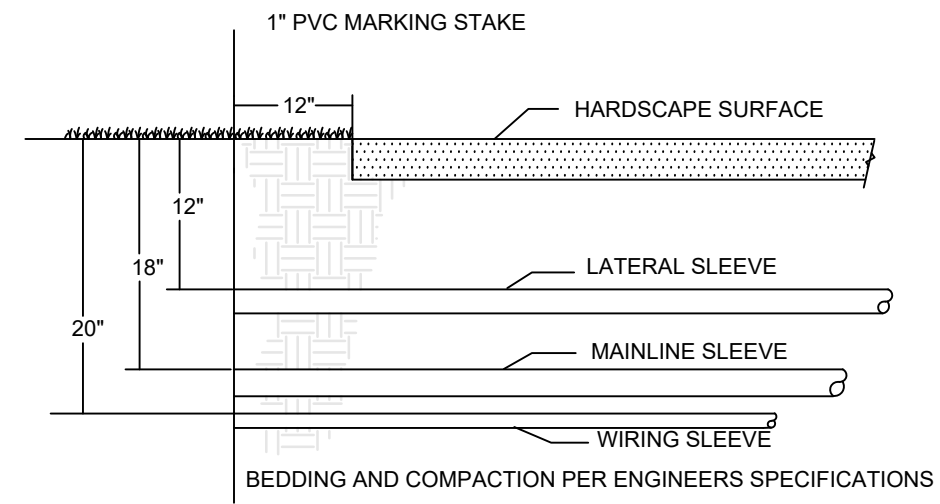
**GENERAL NOTES**

1. ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE
2. MAINLINE TO HAVE MINIMUM OF 24" OF COVER AND A MINIMUM OF 18" OFF OF THE HARDSCAPE
3. LATERALS TO HAVE MINIMUM OF 12" OF COVER AND A MINIMUM OF 12" OFF OF THE HARDSCAPE
4. NO ROCKS, BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL
5. ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS
6. SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS
7. TWO WIRE CONTROL WIRE TO BE 14 GA UL 2 CONDUCTOR, JACKETED AND APPROVED BY 2-WIRE CONTROLLER MANUFACTURER
9. WIRE SPLICES TO BE DONE AS PER DETAILS
10. ALL WIRE SPLICES OUTSIDE OF CONTROL VALVE BOX TO BE IN 10" VALVE BOX
11. TWO WIRE CONDUCTORS TO BE COLOR CODED
12. INSTALL BLUE 14 GA PE JACKETED TRACER WIRE IN ALL MAINLINE TRENCHES. PROVIDE 24" COIL OF TRACER WIRE IN EACH CONTROL VALVE VALVE BOX. TERMINATE TRACER WIRE IN MASTER VALVE VALVE BOX.
13. CONTRACTOR SHALL INSTALL MANUFACTURERS GROUNDING EQUIPMENT ON BOTH THE POWER AND OUTPUT SIDES OF CONTROLLER. ALL GROUNDING POINTS TO BE INSTALLED AS PER PLANS AND DETAILS
14. AT EACH VALVE AND CHANGE IN MAINLINE DIRECTION CONTRACTOR TO INSTALL A 48" LOOP OF EXTRA WIRE
15. SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO NON-IRRIGATED AREAS
16. ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS FOLLOWS  
JUMBO VALVE BOX FOR EACH ELECTRIC CONTROL VALVE
17. SPRINKLERS TO BE INSTALLED 12" FROM FOUNDATIONS AND 2" FROM HARDSCAPE
18. CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED TO MAINTAIN PROPER COVERAGE
19. ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS
20. ALL VALVES, QUICK COUPLER VALVES, WIRE SPLICES TO BE IN LANDSCAPED BEDS WHEREVER POSSIBLE
21. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF AREA TO BE IRRIGATED, MAKE ADJUSTMENTS AS NECESSARY
22. CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES REPAIRING ANY DAMAGES AT HIS OWN COST
23. PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS
24. ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED TO THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION
25. CONTRACTOR TO PROVIDE 1 YEAR WARRANTY OF ALL PRODUCTS AND WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START-UP
26. CONTRACTOR TO PROVIDE OWNER AND OR LANDSCAPE ARCHITECT RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION.
27. INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT INSTALLATION
28. CLEANUP AND DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT, CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R.O.W.

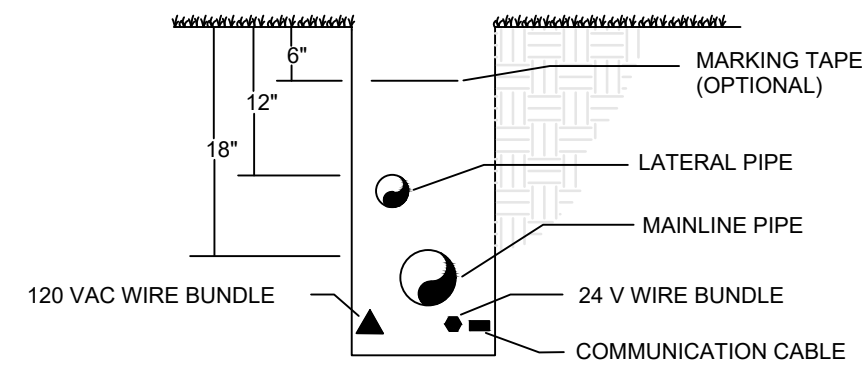
REVISIONS	NO.	DATE	DESCRIPTION	BY			
DESIGNED BY	MHB	DRAWN BY	JMM	CHECKED BY	BRL	APPROVED BY	BRL
LEON COUNTY DEPARTMENT OF PUBLIC WORKS		2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308		PHONE (850) 606-1500 FAX (850) 606-1501		DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFFERENCE	
APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS		DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS		Certificate of Authorization No. 2648 Tallahassee, Florida 32308 Phone 850.362.3600 WWW.DRMP.COM		MICHAEL CLARK, CID, IA IA CERTIFICATION NO. 570 09/19/2019	
PROJECT NO.:	15-0513.004			DATE:	9/19/2019		
SCALE:	AS SHOWN			DRAWING:	IR03		



8 ISOLATION VALVE DETAIL  
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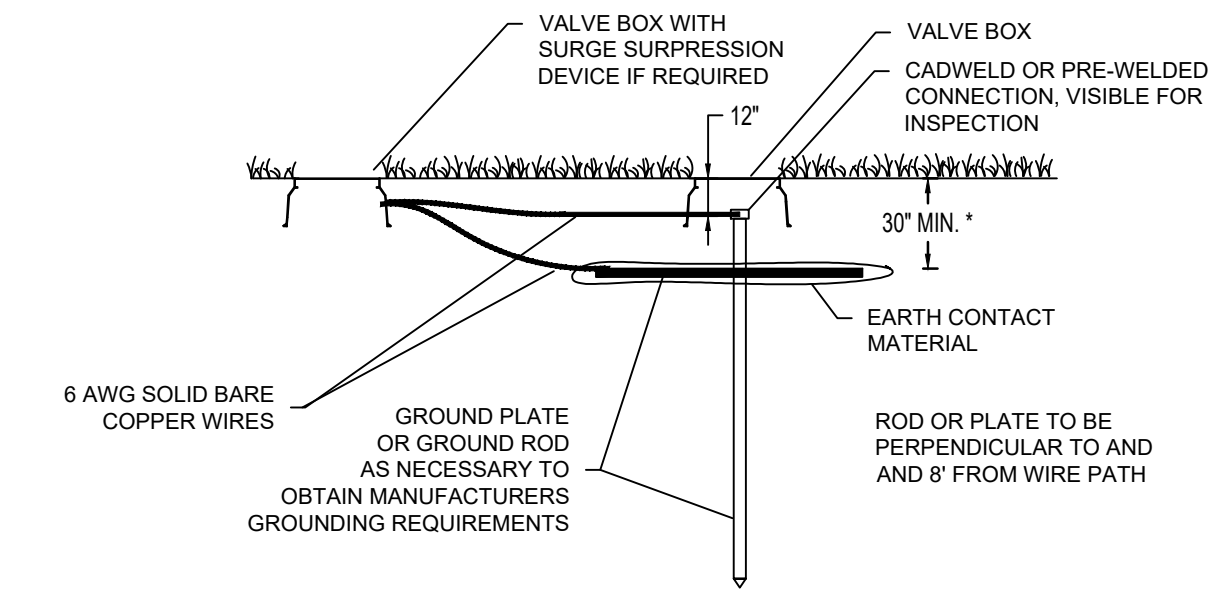


9 SLEEVING  
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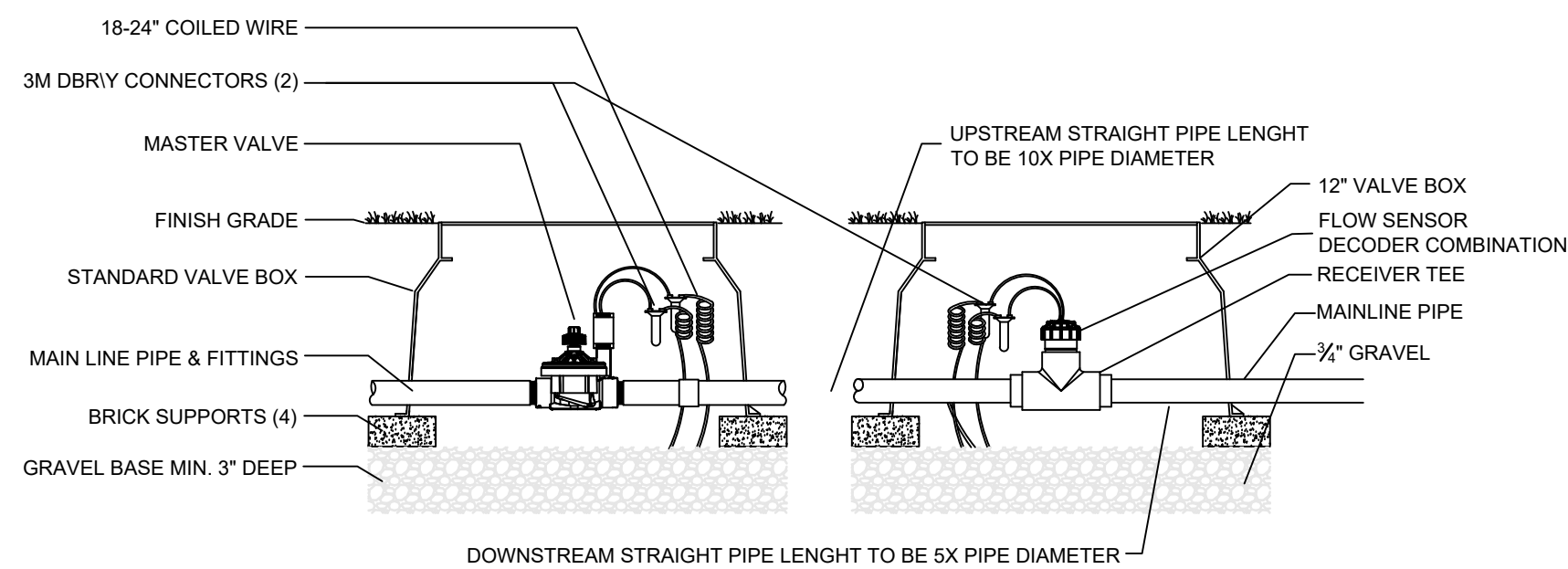


10 TRENCH, PIPE AND WIRE  
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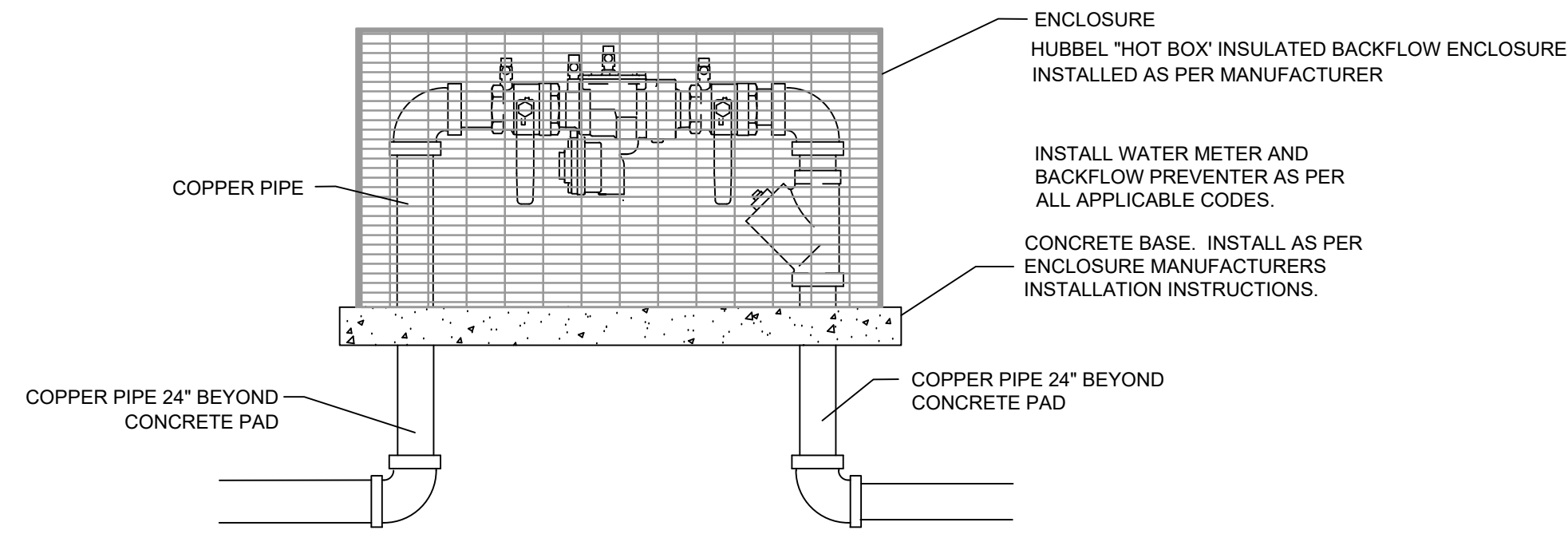
SIDE VIEW



11 TWO WIRE GROUNDING POINT DETAIL  
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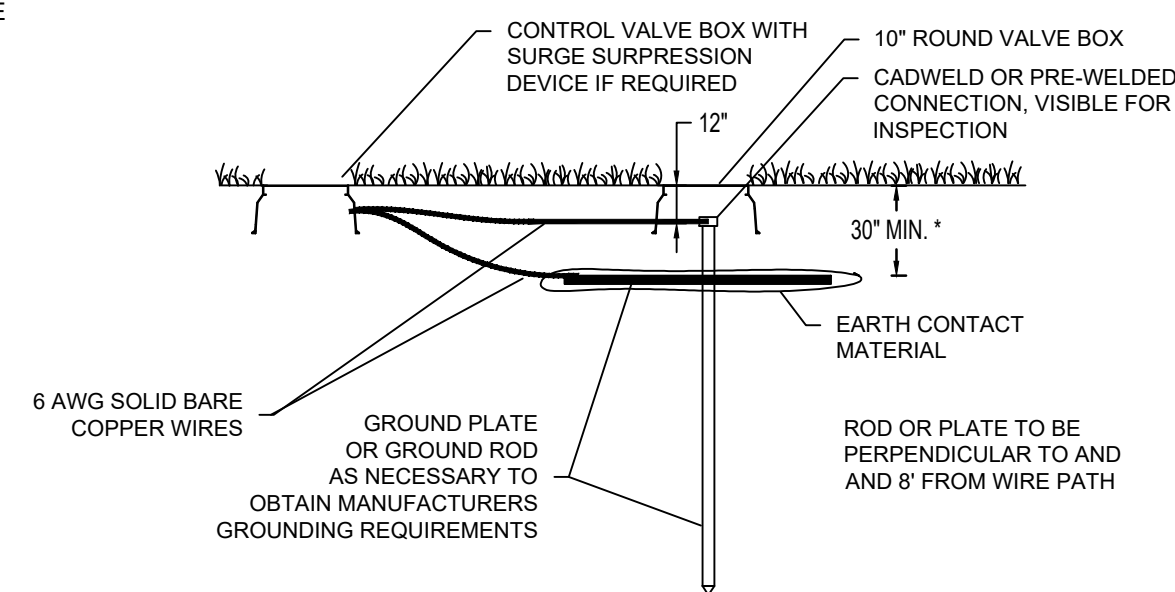


12 MASTER VALVE FLOW SENSOR  
NTS



13 RPZ BACKFLOW PREVENTER WITH ENCLOSURE  
NTS

SIDE VIEW



14 TWO WIRE GROUNDING POINT DETAIL  
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NO.	DATE	DESCRIPTION	BY

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

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

APALACHEE REGIONAL PARK CROSS COUNTRY VENE INFRASTRUCTURE IMPROVEMENTS

**DRMP**  
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
Certificate of Authorization No. 2648  
2882 Remington Green Circle  
Tallahassee, Florida 32308  
Phone 850.562.3600 WWW.DRMP.COM

MICHAEL CLARK, C.D., IA  
IA CERTIFICATION NO. 579  
09/19/2019

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