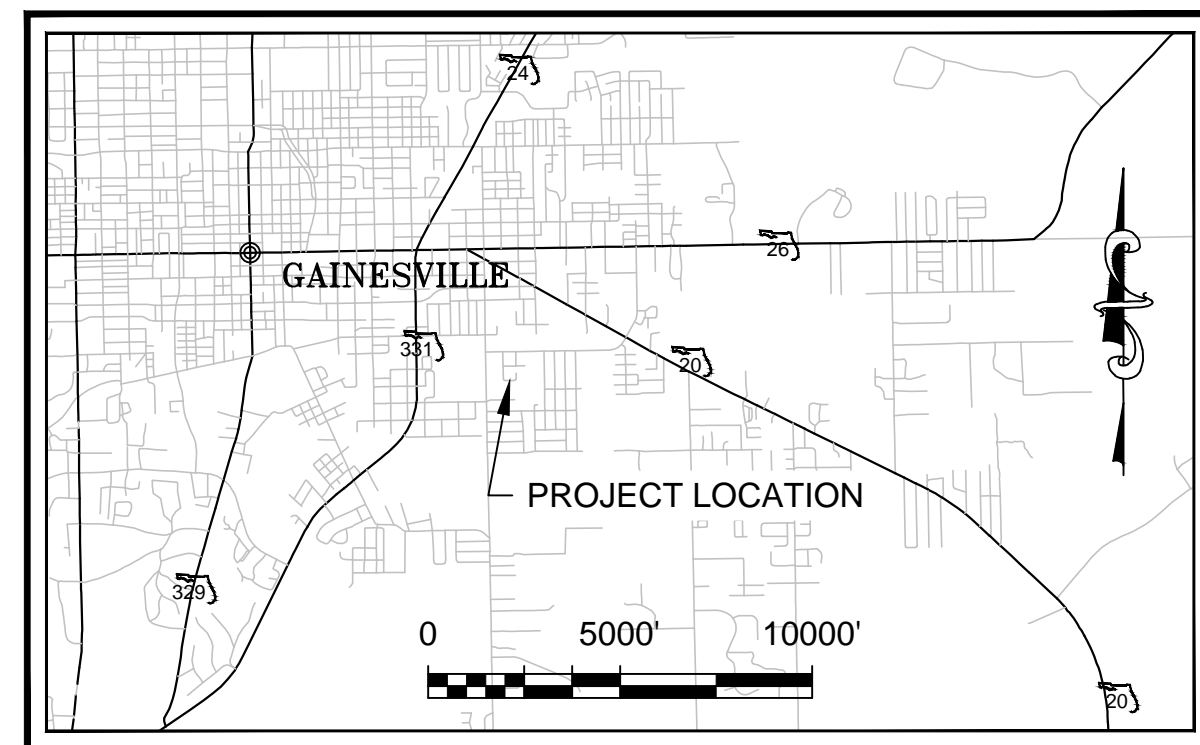


# 100% CONFORMED DOCUMENTS for HEARTWOOD SUBDIVISION GAINESVILLE, FLORIDA

PREPARED FOR:

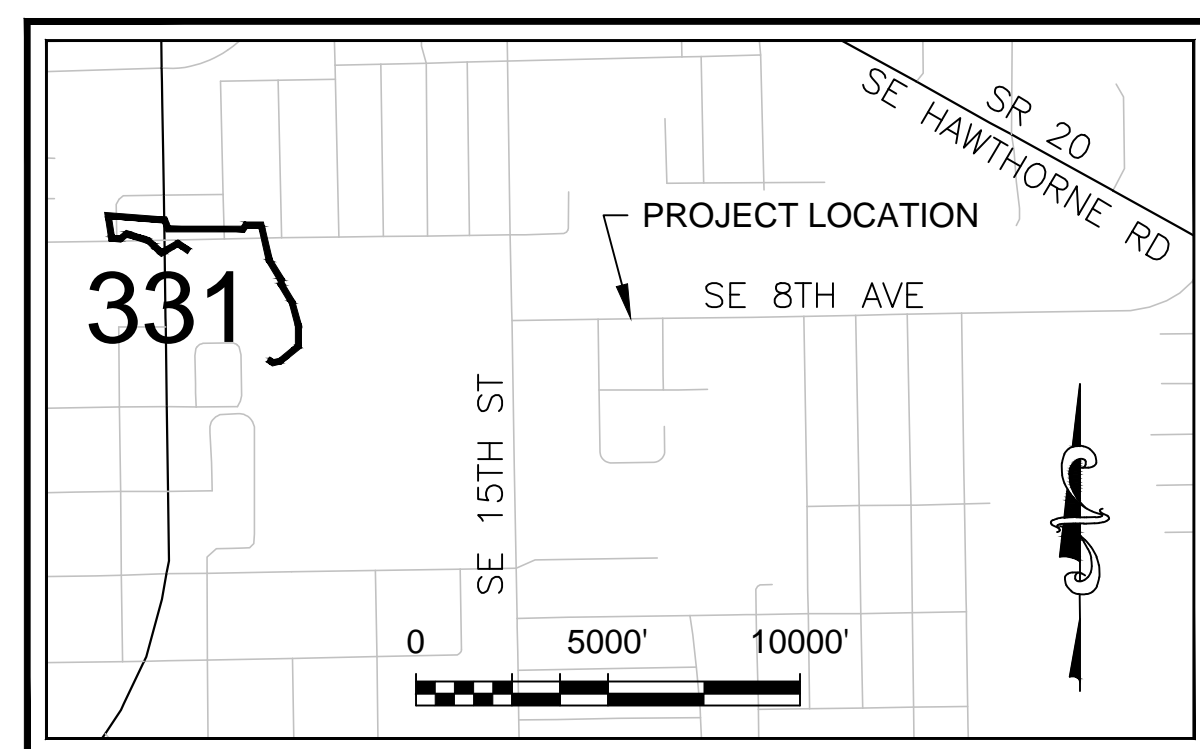
GAINESVILLE COMMUNITY REDEVELOPMENT AGENCY

802 NW 5TH AVE. #200  
GAINESVILLE FL 32601



VICINITY MAP

1" = 5000' (22 x 34)  
1" = 10000' (11 x 17)



LOCATION MAP

1" = 1000' (22 x 34)  
1" = 2000' (11 x 17)

PROJECT NAME: HEARTWOOD - SUBDIVISION  
PROJECT ADDRESS: 1717 SE 8TH AVE, GAINESVILLE, FL  
TAX PARCEL: 16102-000-000  
PROJECT DESCRIPTION: THE OVERALL DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF 34 SINGLE-FAMILY DETACHED LOTS WITH ASSOCIATED INFRASTRUCTURE AND WETLAND MITIGATION ON 15.08 ACRES FORMERLY KNOWN AS KENNEDY HOMES.  
LAND USE: RESIDENTIAL LOW-DENSITY (RL)  
ZONING: RESIDENTIAL LOW-DENSITY (RMF-5) (12 DU/AC MAX)  
SEC-TOW-RAN: 10-10S-20E  
DENSITY: 2.25 DU/AC  
PHASING: CONSTRUCTION OF INFRASTRUCTURE WILL BEGIN IN Q2 2017, AND WILL NOT BE PHASED.  
SCHOOL DISTRICTS:  
ELEMENTARY: WILLIAMS  
MIDDLE: LINCOLN  
HIGH: EASTSIDE

OVERALL DEVELOPMENT DATA TABLE:		
TYPE	ACRES	% OF TOTAL
TOTAL PROJECT AREA	15.078	100.00
LOT AREA (34 UNITS)	5.526	36.65
RIGHT-OF-WAY AREA	1.825	12.10
COMMON OPEN AREA (INCLUDES WETLANDS AND SMF)	7.728	51.25
SMF (TOP OF BANK)	1.160	7.69
POST PROJECT WETLANDS	1.818	12.06
IMPERVIOUS AREA	5.427	35.99

- FIRE SAFETY DEPARTMENT NOTES:
- THE DEVELOPMENT SHALL COMPLY WITH THE FLORIDA FIRE PREVENTION CODE. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-5(A) & (B)]
  - FIRE HYDRANTS AND STABILIZED SURFACES SHALL BE IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES ON SITE. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-16.4.3)]
  - IN-BUILDING PUBLIC SAFETY RADIO ENHANCEMENT SYSTEMS SHALL BE PROVIDED IN ALL BUILDINGS WHERE MINIMUM RADIO SIGNAL STRENGTH FOR FIRE DEPARTMENT COMMUNICATIONS IS NOT ACHIEVED AT A LEVEL DETERMINED BY THE AHJ. IT IS HIGHLY RECOMMENDED THAT DEVELOPERS EVALUATE AND ADDRESS THE POTENTIAL NEED FOR IBPRES IN THE EARLY STAGES OF PROJECT PLANNING. FOR ADDITIONAL SPECIFIC REQUIREMENTS PERTAINING TO SIGNAL STRENGTH, COVERAGE, MAINTENANCE AND TESTING REFER TO NFPA 72-14.4.12 AND 24.5.2. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-11.10)]
  - THE OWNER OR THE OWNER'S AUTHORIZED AGENT SHALL DEVELOP A FIRE SAFETY PROGRAM TO ADDRESS ALL ESSENTIAL FIRE AND LIFE SAFETY REQUIREMENTS FOR THE DURATION OF DEMOLITION, ALTERATION AND CONSTRUCTION. AS SPECIFIED IN THE FLORIDA FIRE PREVENTION CODE, INCLUDING NFPA 241, THE FIRE SAFETY PROGRAM SHALL INCLUDE AN EMERGENCY RESPONSE PLAN, AS WELL AS IDENTIFYING FIRE PREVENTION PRECAUTIONS, SITE AND BUILDING EMERGENCY ACCESS ROUTES, TEMPORARY AND PERMANENT WATER SUPPLIES, BUILDING EGRESS ROUTES, GOOD HOUSEKEEPING PRACTICES, AND FIRE PROTECTION SYSTEM INSTALLATION AND MAINTENANCE. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-16)]

LOT/BUILDING REQUIREMENTS (RMF-5):		
TYPE	REQUIRED	PROVIDED
MIN LOT AREA	3500 SF	>3500 SF
MIN LOT WIDTH	40 FT	50 FT
FRONT SETBACK	20 FT	15 FT (VARIANCE GRANTED IN DESIGN PLAT)
SIDE SETBACK (INTERIOR)	7.5 FT	5 FT (VARIANCE GRANTED IN DESIGN PLAT)
SIDE SETBACK (STREET)	10 FT	15 FT
REAR SETBACK	20 FT	20 FT
MAX HEIGHT	3 STORIES	<3 STORIES
MAX LOT COVERAGE	35%	35%

INDEX OF DRAWINGS	
NO.	DESCRIPTION
C0.00	COVER
C0.10	GENERAL NOTES
2 OF 2	DESIGN PLAT
C0.20	DEMOLITION AND TREE REMOVAL PLAN
C0.21	TREE REMOVAL TABLE
C0.30	STORMWATER POLLUTION PREVENTION PLAN
C0.31	STORMWATER POLLUTION PREVENTION PLAN NOTES
C0.32	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C1.00	OVERALL SITE PLAN
C1.01	HORIZONTAL CONTROL SITE PLAN
C2.00	PAVING GRADING AND DRAINAGE PLAN
C2.01 - C2.02	LOT GRADING PLAN
C2.10 - C2.11	CURB RAMP DETAILS
C3.00	UTILITY SITE PLAN
C3.01	ELECTRIC AND GAS SCHEMATIC
C3.10 - C3.11	TYPICAL ROADWAY AND UTILITY SECTIONS
C4.01 - C4.13	ROADWAY PLAN AND PROFILE
C4.14	ROAD CROSSING DETAIL
C6.00	POND DETAIL SHEET
C6.01 - C6.02	WETLAND MITIGATION AND ENHANCEMENT/IMPACT AREA SECTIONS
C7.01 - C7.02	CONSTRUCTION DETAILS
LS-1 - LS-2	LANDSCAPE PLANS
E-1 - E-3	PHOTOMETRIC PLANS
1-6	BOUNDARY AND TOPOGRAPHIC SURVEY

JANUARY 2018

DRMP PROJECT NO. 15-0415.000



7525 NW 4th Blvd, Suite 70, Gainesville, FL 32607  
DRMP, Inc. - Certificate of Authorization No. 2648

THE WATER AND WASTEWATER SYSTEM DESIGN IS IN ACCORDANCE WITH CURRENT GRU DESIGN STANDARDS. THIS STATEMENT IS CERTIFIED BY THE ENGINEER'S SIGNATURE AND STAMP ON THIS COVER PAGE.

GAS AND ELECTRIC DESIGN PROVIDED BY GRU.

NOTIFY UNDERGROUND UTILITIES, NOTIFICATION CENTER AT 1-800-432-4770 OR 811 AT LEAST 72 HOURS PRIOR TO START OF WORK.

"THE CONTACT INFORMATION PROVIDED ABOVE IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SUNSHINE STATE ONE CALL OF FLORIDA OF AN INTENT TO EXCAVATE OR DEMOLISH."

DESIGNED BY	DS	DRAWN BY	JW	CHECKED BY	DS	APPROVED BY	CT
COVER							
100% CONFORMED DOCUMENTS FOR HEARTWOOD SUBDIVISION ALACHUA COUNTY, FL							
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE							
<p>DRMP, Inc. ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2648 7525 NW 4th Blvd, Suite 70 Gainesville, Florida 32607 Phone: (352) 371-2741 Fax: (352) 372-4318 www.DRMP.com</p>							
DAVID C. SOWELL, P.E. FLORIDA P.E. NO.: 68531							
PROJECT NO.: 15-0415.000							
SCALE: AS SHOWN							
DATE: FEBRUARY 1, 2018							
DRAWING: C0.00							



GENERAL NOTES

- 1. UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH THE FOLLOWING SPECIFICATIONS:
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CITY OF GAINESVILLE ENGINEERING DESIGN & CONSTRUCTION MANUAL
GRU DESIGN STANDARDS AND DETAILS
2. THIS DESIGN HAS BEEN BASED UPON A BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY JBROWN PROFESSIONAL GROUP, INC. GEOTECHNICAL EVALUATION HAS BEEN PERFORMED BY GSE ENGINEERING, INC. DRMP, INC. MAKES NO ASSURANCES REGARDING THE ACCURACY OF THE SURVEY, AND GEOTECHNICAL EVALUATION.
3. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, THE WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY AFFECT THE SUCCESSFUL COMPLETION OF THE JOB PRIOR TO COMMENCEMENT OF WORK.
4. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, HE SHALL PROMPTLY NOTIFY THE ENGINEER, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT FOR CHANGES IN THE WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, AND TELEGRAPH FACILITIES SUCH AS PAVEMENTS, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.
7. UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE PERMITS, AND SPECIFICATIONS HEREIN, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING AND SAFETY CODES, LAWS AND ORDINANCES.
8. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT-OF-WAY, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMIT FROM JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY. IN ADDITION, CONTRACTOR SHALL OBTAIN GAS I.D. NUMBER FROM LOCAL GAS COMPANY AND NOTIFY UNDERGROUND UTILITIES, NOTIFICATION CENTER AT 1-800-432-4770 AT LEAST THREE (3) BUSINESS DAYS PRIOR TO START OF WORK.
9. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN CONSISTENT WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, CITY OF GAINESVILLE, AND MOST RECENT FDOT STANDARD DESIGN INDEX SERIES 600. THE CONTRACTOR SHALL SUBMIT THE TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL.
10. IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS HE SHALL IMMEDIATELY NOTIFY THE OWNER OR OWNER'S AGENT.
11. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, PERMANENT CONTROL POINTS, PERMANENT BENCH MARKS AND PROPERTY CORNERS. IN THE EVENT THE MONUMENTS, POINTS OR MARKERS ARE DISTURBED THE CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE THEM.
12. THIS PROJECT WILL REQUIRE AN NPDES PERMIT THROUGH THE FDEP. ALSO, ADDITIONAL COPIES OF THE EROSION CONTROL PLAN ARE TO BE SUBMITTED TO THE DEVELOPMENT REVIEW INSPECTIONS TEAM AND THE NATURAL RESOURCES OFFICER PRIOR TO THE PRECONSTRUCTION MEETING.
12. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO INSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM UNAUTHORIZED ACCESS OR USE. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.
14. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY MANUFACTURER.
15. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING BUT NOT LIMITED TO TUNNELS, DITCHES, STORM WATER PONDS, CANALS, ARTIFICIAL LAKES) CONTRACTOR SHALL INSTALL FENCES AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO INSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.
16. CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY ACT.
17.1 THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
A. ALL EMPLOYEES ON THE WORK AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY;
B. ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS;
C. OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF CONSTRUCTION.
17.2 THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGN TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS.
17.3 ALL DAMAGE OR LOSS TO ANY PROPERTY REFERRED TO IN CLAUSES 17.1(B) AND 17.1(C) CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANY OF WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
17.4 UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE ELEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF.
17.5 THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
17.6 ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMAN SERVICES SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTERS ONTO OR CROSSES TRAFFIC-CARRYING ROADS.
18.1 THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.
18.2 THE 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, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR ANY RULE OR REGULATION PROMULGATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN

- ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR FURTHER AGREES, IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL OR STATE SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, OWNER MAY IMMEDIATELY TAKE WHATEVER ACTION IS DEEMED NECESSARY BY OWNER TO REMEDY THE CLAIMED VIOLATION, AND ALL COSTS OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COSTS OR EXPENSES.
19. ALL WORK PERFORMED UNDER THE CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE WORK SHALL CONFORM TO APPLICABLE 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 GOVERN.
20.1 CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS (AS DEFINED PARAGRAPH 20.8) IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.
20.2 CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
20.3 CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTAINING AND HAZARDOUS MATERIAL FROM THE JOB SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT, FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS OF PARAGRAPH 20.7.
20.4 CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS 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 THIS ARTICLE 20.
20.5 SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF THIS PARAGRAPH, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER IN WRITING. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
20.6 IN THE EVENT CONTRACTOR OR 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 MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER IN WRITING.
20.7 IF CONTRACTOR OR ITS SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS OF THIS PARAGRAPH, OWNER MAY, BUT IS NOT OBLIGATED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH THE REQUIREMENTS OF THE PARAGRAPH WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE OR WITHIN THE TIME OF AN ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.
20.8 "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," "POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR (D) THE PRESENCE OF WHICH ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
21.1 THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
21.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE SIZE, TYPE, LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. TWA SHALL NOT BE HELD RESPONSIBLE FOR INADEQUATE OR INCORRECT UTILITY LOCATES.
22. IF ANY TESTING, INSPECTION OR APPROVAL REVEAL DEFECTIVE WORK, CONTRACTOR SHALL NOT BE ALLOWED TO RECEIVE ANY ASSOCIATED COSTS AND THE OWNER SHALL BE ENTITLED TO DEDUCT FROM THE CONTRACT PRICE, BY ISSUING A CHANGE ORDER, OWNER'S COSTS ARISING OUT OF THE DEFECTIVE WORK, INCLUDING COSTS OF REPEATED PROCEDURES, COMPENSATION FOR ENGINEER'S AND DESIGN ENGINEER'S SERVICES AND OTHER RELATED COSTS.
23. A PRE-CONSTRUCTION MEETING WITH OWNER AND ENGINEER SHALL BE REQUIRED PRIOR TO INITIATING CONSTRUCTION.
24. WATER, SEWER, AND REUSE SHOP DRAWINGS SHALL BE SUBMITTED TO GRU AND ACCEPTED PRIOR TO INITIATING CONSTRUCTION.
25. ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO GRU UTILITY PERMIT(S), CITY OF GAINESVILLE PERMITS(S), WATER MANAGEMENT DISTRICT PERMIT(S), ETC. SHALL BE OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
26. CONSTRUCT UTILITIES IN ACCORDANCE TO GRU ACCEPTED PLANS AND SHOP DRAWINGS. ANY DEVIATION FROM THE ACCEPTED PLANS SHALL BE REVIEWED BY THE DEVELOPER'S ENGINEER AND ACCEPTED BY GRU PRIOR TO CONSTRUCTION.
27. ALL CONCRETE SHALL BE 3,000 PSI MIN 28 DAY STRENGTH UNLESS SPECIFIED OTHERWISE.
28. ALL STRIPING SHALL BE THERMOPLASTIC UNLESS SPECIFIED OTHERWISE.
29. THE CONTRACTOR SHALL SUBMIT SIX COPIES OF SHOP DRAWINGS TO THE ENGINEER ON ALL STRUCTURES AND RECEIVE BACK FROM THE ENGINEER THE APPROVED SHOP DRAWINGS BEFORE COMMENCING WORK ON THE STRUCTURE.
30. ALL TRAFFIC CONTROL DEVICES AND SIGNAGE SHALL BE F.D.O.T. AND CITY OF GAINESVILLE SPECIFICATIONS, AND MEET THE REQUIREMENTS OF CHAPTER 316 FLORIDA STATUTES.
31. STREET SIGNS TO BE REFLECTIVE AND PLACED IN ACCORDANCE WITH CITY OF GAINESVILLE STANDARDS. CONTRACTOR SHALL FURNISH AND INSTALL STREET SIGNS.
32. ALL STOP SIGNS TO BE 36" HIGH INTENSITY.
33. MAINTENANCE OF TRAFFIC
33.1 FDOT STANDARD INDEX 600 SERIES IS TO BE USED FOR ALL MAINTENANCE OF TRAFFIC. A PERMIT SHALL BE OBTAINED FROM THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT PRIOR TO WORKING IN THE RIGHT-OF-WAY.
34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ANY OTHER CONTRACTORS WHO MAY BE PERFORMING WORK AT THE PROJECT SITE.
35. EXISTING FACILITIES SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCEMENT OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
36. THE CONTRACTOR SHALL KEEP AND MAINTAIN ON-SITE AN ACCURATE UP-TO-DATE SET OF AS-BUILT DRAWINGS. THESE DRAWINGS SHALL INCLUDE LOCATIONS AND ELEVATIONS OF MAINS, FITTINGS, VALVES, SERVICES, CASINGS, AND OTHER APPURTENANCES AS WELL AS ANY DEVIATIONS IN THE PLANS. THESE AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE WORK FOR HIS REVIEW AND USE.

- 37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CITY, COUNTY, STATE, OR LOCAL CONSTRUCTION PERMITS OR APPROVALS, ETC. AND POSTING ALL REQUIRED BONDS, ETC. PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH UTILITY COMPANIES, CITY, COUNTY, OR STATE AGENCIES AND THE OWNER'S REPRESENTATIVE.
38. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND ALL UTILITY COMPANIES IN THE AREA 3 BUSINESS DAYS (MINIMUM) BEFORE BEGINNING CONSTRUCTION.
39. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL APPLICABLE PERMITS ON-SITE AND SHALL BE RESPONSIBLE TO ADHERE TO ALL PERMIT CONDITIONS DURING CONSTRUCTION.
40. ALL WORK PERFORMED WITHIN THE FOOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF FDOT DESIGN STANDARDS, MOST RECENT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE 2010 UTILITY ACCOMMODATION MANUAL.

SEPARATION REQUIREMENTS:

- 1. ALL CROSSINGS BETWEEN POTABLE WATER, REUSE WATER, SANITARY SEWER, STORM SEWER, ELECTRIC, GAS, TELECOMMUNICATION, OR OTHER UNDERGROUND UTILITIES NOT INDICATED HERE SHALL BE PER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS, WATER MANAGEMENT DISTRICT REQUIREMENTS, AND REQUIREMENTS OF THE RESPECTIVE UTILITY OWNER(S) OR AUTHORITY HAVING JURISDICTION. ANY CONFLICT IN STANDARDS OR REQUIREMENTS SHALL FOLLOW THE MORE STRINGENT RULE. ALL CROSSINGS WITH POTABLE WATER, REUSE WATER, AND SANITARY SEWER SHALL BE SUBJECT TO FINAL APPROVAL BY GRU.

CLEARING NOTES

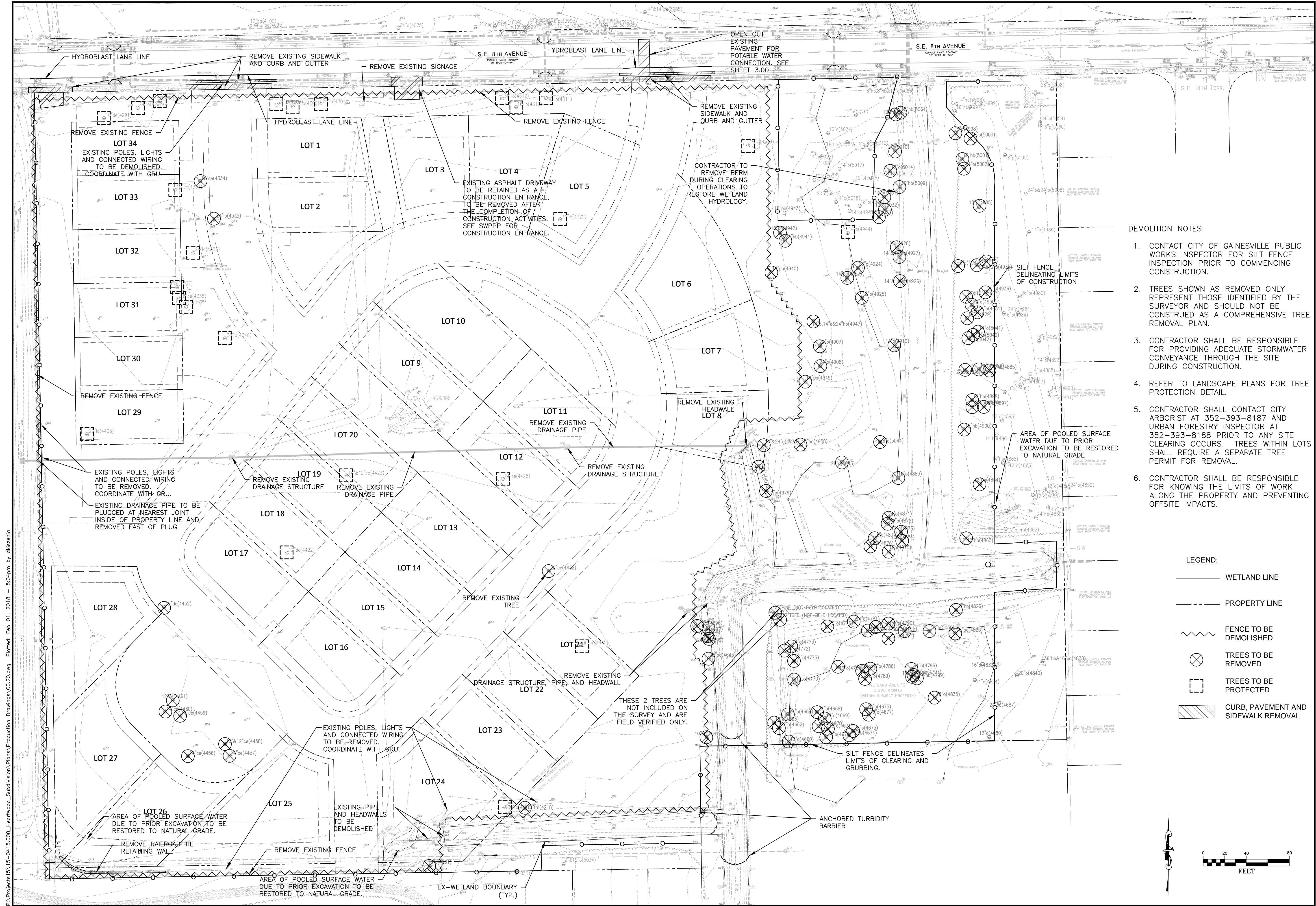
- 1. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE REGULATORY AGENCIES PRIOR TO COMMENCING CLEARING.
2. ALL CLEARING SHALL BE IN ACCORDANCE WITH CITY OF GAINESVILLE AND SJRWMD PERMITS.
3. WHERE DIRECTED BY THE OWNER'S REPRESENTATIVE TREES, AND/OR OTHER VEGETATION WITHIN THE CLEARING AREA TO BE SAVED, SHALL BE PROTECTED AND TRIMMED TO PREVENT DAMAGE DURING CONSTRUCTION.
4. VEGETATION TO REMAIN SHALL BE PROTECTED BY STAKED SILT FENCE AND/OR CONSTRUCTION FENCING WHICH SHALL REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION.

GAINESVILLE REGIONAL UTILITY (GRU) NOTES

- 1. THE FOLLOWING PERMITS ARE REQUIRED: CITY.
2. THE UTILITY PLAN AND PLAT SHOWS ALL PUBLIC UTILITY EASEMENTS (PUE'S) IN A METES AND BOUNDS FORMAT. UPON GRU'S APPROVAL OF PLANS FOR DEVELOPMENTS NOT BEING PLATTED, OWNER MAY CHOSE TO GRANT THE METES AND BOUNDS EASEMENTS AS SHOWN, OR A BLANKET EASEMENT OVER THE ENTIRE PROPERTY, PROVIDED FACILITIES ARE INSTALLED WITHIN THE PRESCRIBED DISTANCES AS SHOWN ON THE UTILITY PLANS AND IN ACCORDANCE WITH THE UTILITY SEPARATIONS REQUIREMENTS TABLE IN APPENDIX C OF THE GRU W/WW/RWC DESIGN STANDARDS.
3. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER AND RECLAIMED WATER SYSTEMS SHALL BE INSTALLED IN CONFORMANCE WITH GRU'S MOST RECENT WATER, WASTEWATER AND RECLAIMED WATER SYSTEM DESIGN STANDARDS.
4. POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
5. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FOR POTABLE WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, AND 15 FEET FOR GRAVITY WASTEWATER MAINS SHALL BE PROVIDED AND MAINTAINED FROM TREES, BUILDINGS, TRANSFORMERS, AND ALL PERMANENT STRUCTURES. LIVE OAK TREES REQUIRE AN ADDITIONAL 5 FEET OF HORIZONTAL CLEARANCE. SERVICE LATERALS REQUIRE 5 FEET LEE CLEARANCE FOR EACH OF THE UTILITIES; NOTE THAT WATER SERVICE LATERALS SHALL BE INSTALLED WITH 3" SLEEVES. (SEE APPENDIX C, GRU STANDARDS - HORIZONTAL SEPARATION DISTANCES FOR PARALLEL AND PERPENDICULAR CLEARANCE FROM OTHER OBJECTS TABLE.)
6. POTABLE WATER SERVICES, REQUIRING A SEPARATE WATER METER, SHALL BE PROVIDED TO EACH LOT, BUILDING, OR PARCEL. EFFECTIVE OCTOBER 1, 2017, FOR COMMERCIAL, MULTIFAMILY, AND INSTITUTIONAL DEVELOPMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR INSTALLING POTABLE WATER SERVICES AND YOKE ASSEMBLY PACKAGE UP TO AND INCLUDING THE METER BOX, YOKE, BOX (INSTALLED AT FINAL GRADE) AND ASSOCIATED APPURTENANCES, FOR METERS 1" AND SMALLER (SEE GRU W/WW/RWC CONSTRUCTION DETAIL W - 8.0), WITH ONE-YEAR WARRANTY.
7. 2" VALVES LOCATED IN PAVED AREAS, INCLUDING SIDEWALKS, SHALL BE GRU APPROVED CAST IRON, RESILIENT SEAT GATE VALVES WITH STANDARD 2" OPERATING NUT, THREADED WITH BRASS NIPPLE BETWEEN THE VALVES AND TAPPING SADDLE OR TAPPED TEE.
8. WATER MAINS 4" IN DIAMETER OR GREATER, PLACED UNDER ROADWAYS, SHALL BE CEMENT LINED DUCTILE IRON PIPE (CLDIP) EXTENDING 5 FEET PAST THE BACK OF CURB (3 FEET WITHIN THE CITY OF GAINESVILLE LIMITS). TRACER WIRE INSTALLED ON PVC WATER MAINS SHALL CONTINUE ACROSS CLDIP SECTIONS.
9. 1" AND 2" WATER SERVICE CROSSINGS LOCATED UNDER ROADWAYS SHALL BE ENCASED IN 3" SCH 40 PVC EXTENDING 5 FEET PAST THE BACK OF CURB (3 FEET INSIDE THE CITY OF GAINESVILLE LIMITS).
10. ANCHORING TEES, COUPLINGS, AND BENDS SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.
11. ALL PRESSURIZED MAIN FITTINGS SHALL BE MECHANICAL JOINT WITH RESTRAINED JOINT GLANDS; A SUFFICIENT LENGTH OF THE PIPE CONNECTED TO THE FITTINGS SHALL BE MECHANICALLY RESTRAINED TO PROVIDE REACTION AS SPECIFIED ON THE RESTRAINED JOINT STANDARD IN THE CONSTRUCTION DETAILS OF THE GRU STANDARDS (W - 2.8 & 2.9, RCW - 2.8 & 2.9, AND VW - 2.4 & 2.5). CALCULATIONS FOR REQUIRED RESTRAINT LENGTH MUST BE PROVIDED IF THE SPECIFIED RESTRAINT LENGTH, DUE TO SOIL TYPE OR DEPTH OF COVER, DIFFERS FROM THOSE PROVIDED ON THESE DETAILS.
12. ALL SANITARY WASTEWATER SERVICE LATERALS SHALL BE MIN. 4" DIAMETER PVC (SDR 35) AT 1.00% MIN. SLOPE UNLESS OTHERWISE SPECIFIED.
13. WASTEWATER CLEANOUT COVERS LOCATED WITHIN PAVEMENT AND SIDEWALKS ADJACENT TO PAVED AREAS SHALL BE RATED FOR TRAFFIC LOAD BEARING. WASTEWATER CLEANOUT COVERS IN OTHER SIDEWALKS/WALKWAYS SHALL BE BRASS WITH SQUARE RECESS.
14. MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RIM ELEVATION AT LEAST 6" ABOVE FINISHED GRADE, AND A 10:1 SLOPE TO FINISHED GRADE.
15. UNLESS OTHERWISE NOTED ON THE PLANS, THE FINISHED FLOOR ELEVATIONS OF BUILDINGS SHALL BE A MINIMUM OF 6" ABOVE THE LOWEST UPSTREAM MANHOLE TOP. IF THIS IS INFEASIBLE, A WASTEWATER SERVICE LATERAL BACKWATER VALVE (BWV) IS REQUIRED ON THE CUSTOMER SIDE OF THE CLEANOUT.
16. WHEN A POTABLE OR RECLAIMED WATER MAIN, OR A WASTEWATER FORCE MAIN IS ROUTED WITHIN 10 FEET OF AN ELECTRIC TRANSFORMER, A 20 FOOT LENGTH OF DIP SHALL BE CENTERED ON THE TRANSFORMER WITH MECHANICAL RESTRAINT AT EACH END. NO FITTINGS OR VALVES SHALL OCCUR WITHIN 10 FEET OF THE NEAREST EDGE OF THE TRANSFORMER. A MINIMUM CLEARANCE OF 3 FEET SHALL BE MAINTAINED BETWEEN THE MAIN AND THE TRANSFORMER..

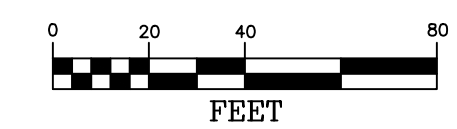
100% CONFORMED DOCUMENTS FOR HEARTWOOD SUBDIVISION ALACHUA COUNTY, FL
DRMP, Inc. ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
DAVID C. SOWELL, P.E. FLORIDA P.E. NO.: 68531
PROJECT NO.: 15-0415.000
SCALE: N/A
DATE: FEBRUARY 1, 2018
DRAWING: C0.10





- DEMOLITION NOTES:
- CONTACT CITY OF GAINESVILLE PUBLIC WORKS INSPECTOR FOR SILT FENCE INSPECTION PRIOR TO COMMENCING CONSTRUCTION.
  - TREES SHOWN AS REMOVED ONLY REPRESENT THOSE IDENTIFIED BY THE SURVEYOR AND SHOULD NOT BE CONSTRUED AS A COMPREHENSIVE TREE REMOVAL PLAN.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE STORMWATER CONVEYANCE THROUGH THE SITE DURING CONSTRUCTION.
  - REFER TO LANDSCAPE PLANS FOR TREE PROTECTION DETAIL.
  - CONTRACTOR SHALL CONTACT CITY ARBORIST AT 352-393-8187 AND URBAN FORESTRY INSPECTOR AT 352-393-8188 PRIOR TO ANY SITE CLEARING OCCURS. TREES WITHIN LOTS SHALL REQUIRE A SEPARATE TREE PERMIT FOR REMOVAL.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING THE LIMITS OF WORK ALONG THE PROPERTY AND PREVENTING OFFSITE IMPACTS.

- LEGEND:
- WETLAND LINE
  - PROPERTY LINE
  - FENCE TO BE DEMOLISHED
  - TREES TO BE REMOVED
  - TREES TO BE PROTECTED
  - CURB, PAVEMENT AND SIDEWALK REMOVAL

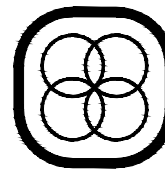


<b>DRMP</b> <small>ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS</small> <small>Certificate of Authorization No. 2648          7525 NW 75th Blvd, Suite 70          Gainesville, Florida 32607          Phone: (352) 371-2741 Fax: (352) 372-4318          www.DRMP.com</small>	<b>100% CONFORMED DOCUMENTS FOR</b> <b>HEARTWOOD</b> <b>SUBDIVISION</b> <small>ALACHUA COUNTY, FL</small>	<b>DEMOLITION AND TREE</b> <b>REMOVAL PLAN</b>
	DO NOT SCALE THIS DRAWING — DIMENSIONS AND NOTES TAKE PREFERENCE	15-0415.000 SCALE: 1" = 40' DATE: FEBRUARY 1, 2018 DRAWING: C0.20

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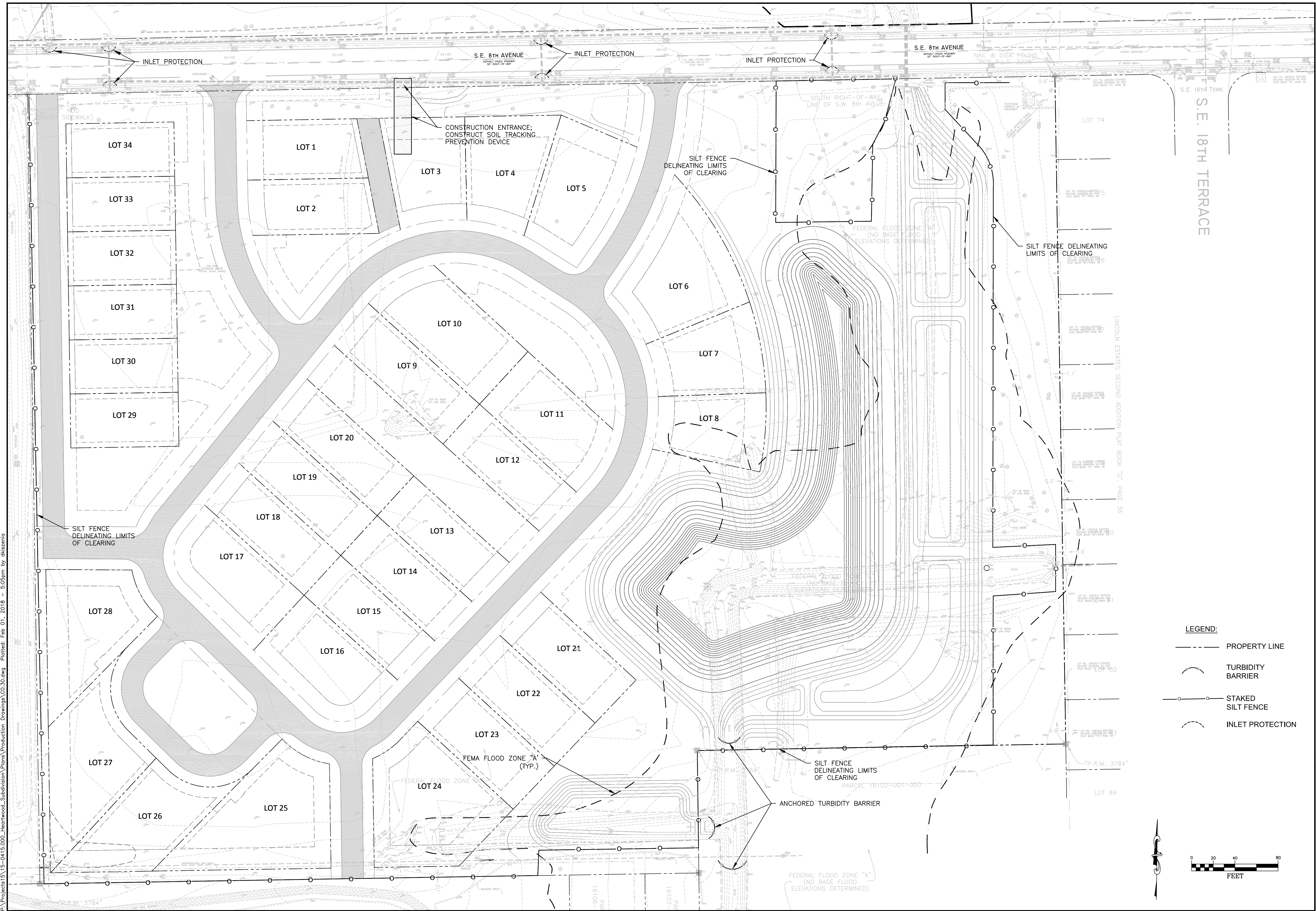
HEARTWOOD SUBDIVISION TREE REMOVAL			
TREE ID	SPECIES	SIZE (IN)	NOTES
4218	FM	12	
4325	LIVE OAK	34	
4334	CEDAR	16	
4335	LIVE OAK	24	
4425	CEDAR	24	
4432	CEDAR	20	
4432	CEDAR	20	
4452	DE	12	
4456	CEDAR	14	
4457	CEDAR	14	
4458	CEDAR	10 & 12	
4459	CEDAR	14	
4460	CEDAR	14	
4461	CEDAR	12	
4501	PINE	18	
4642	CHERRY	10	
4643	PALM	20	
4660	LIVE OAK	10	
4662	LIVE OAK	12	
4663	LIVE OAK	12	
4664	LIVE OAK	24	
4668	LIVE OAK	24	
4669	LIVE OAK	18	
4670	LIVE OAK	12	
4671	LIVE OAK	18	
4672	LIVE OAK	14	
4674	HACKBERRY	16	
4675	LIVE OAK	20	
4675A	LIVE OAK	20	
4677	LIVE OAK	16	
4696	OAK	16	
4697	HACKBERRY	14	
4698	OAK	10	
4699	PALM	24	
4770	LIVE OAK	12	
4772	OAK	16	
4773	OAK	24	
4775	OAK	16	
4776	OAK	20	
4781	OAK	24	
4783	OAK	18	
4784	OAK, HACKBERRY	14	
4785	OAK	12	
4826	HACKBERRY	18	
4863	HACKBERRY	10	
4871	OAK	24	
4872	OAK	14	
4873	OAK	12	
4874	OAK	10	
4875	OAK	8	
4876	OAK	8	
4877	OAK	8	
4883	OAK	16	
4884	HACKBERRY AND OAK	14	
4785	OAK	12	
4786	OAK	16	
4787	OAK	16	
4789	OAK	16	
4790	OAK	16	
4791	OAK	12	
4795	OAK	12	

4796	OAK	34	
4797	PA	16	
4798	OAK	18	
4799	HACKBERRY	4	
4825	PA	16	
4835	OAK	18	
4864	HACKBERRY	32	
4885	HACKBERRY	16	
4898	HACKBERRY	10	
4897	OAK	10	
4899	HACKBERRY	18	
4886	OAK	14	
4900	HACKBERRY	18	
4907	OAK	24	
4908	OAK	24	
4910	OAK	14	
4923	PALM	14	
4924	OAK	28	
4925	OAK	18	
4926	HACKBERRY	14 & 14	
4927	HACKBERRY	14 & 14	
4928	OAK	12	
4929	OAK	14	
4930	OAK	12	
4931	OAK	14	
4933	OAK	8	
4934	OAK	8,10	
4935	OAK	10,12	
4936	OAK	20	
4937	OAK	16	
4940	PALM	14	
4941	HACKBERRY	24	
4942	PALM	18	
4943	PALM	18	
4947	OAK, OAK, HACKBERRY	14,14,24	
4949	PALM	14	
4949	PALM	14	
4958	PALM	18	
4975	OAK	14 & 24	
4976	OAK	24	
4979	PINE	14	
4985	PINE	18	
4998	OAK	8	
5000	OAK	10	
5001	HACKBERRY	18	
5002	OAK	14	
5009	HACKBERRY	36	
5010	OAK	12	
5014	OAK	12	
5031	OAK	14	
5032	OAK	12	
5033	OAK	18	
5036	OAK	18	
5040	OAK	12	
5041	OAK	14	
5042	OAK	8	
5043	OAK	26	
5044	OAK	8	
5064	HACKBERRY	10	
5065	HACKBERRY	10	

DESIGNED BY		DS	DRAWN BY		JW	CHECKED BY		DS	APPROVED BY		CT
NO.			DATE			DESCRIPTION			BY		
<b>TREE REMOVAL TABLE</b>											
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- LEGEND:**
- PROPERTY LINE
  - ~ TURBIDITY BARRIER
  - STAKED SILT FENCE
  - ~ INLET PROTECTION

DESIGNED BY		DS	DRAWN BY		JW	CHECKED BY		DS	APPROVED BY		CT
NO.		DATE		DESCRIPTION		BY		NO.		DATE	
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<b>STORMWATER POLLUTION PREVENTION PLAN</b>											
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I. INTRODUCTION

THIS DOCUMENT WAS PREPARED IN ORDER TO BE IN COMPLIANCE WITH CHAPTER 62-621-300(4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.

II. SITE DESCRIPTION

COUNTY: ALACHUA
SECTION/ TOWNSHIP/ RANGE: 10-10S-20E
COUNTY PARCEL NO: 16102-000-000
LATITUDE & LONGITUDE: 29.6434°N, 82.3030°W
STREET ADDRESS: 1717 SE 8TH AVE. GAINESVILLE, FL 32641
PROJECT AREA: 15.08 ACRES
SITE LOCATION MAP: SEE COVER SHEET OF THE ATTACHED CONSTRUCTION DRAWINGS

A. NATURE OF CONSTRUCTION ACTIVITIES

THE PROPOSED CONSTRUCTION WILL CONSIST OF INFRASTRUCTURE, DRAINAGE AND UTILITY IMPROVEMENTS FOR A SINGLE-FAMILY RESIDENTIAL SUBDIVISION IN GAINESVILLE, FL.

B. SEQUENCE OF MAJOR SOIL DISTRIBUTING ACTIVITIES

- 1. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED.
2. THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFFSITE TRACKING OF SEDIMENTS.
3. THE SITE SHALL BE CLEANED AND GRUBBED OF UNWANTED VEGETATION.
4. IF SUITABLE, THE EXCAVATED SOIL MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THE CONSTRUCTION DRAWINGS. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE SOIL MATERIAL OFFSITE TO A PERMITTED LOCATION.
5. THE PERMANENT ROADWAY SHALL BE ROUGHLY GRADED.
6. THE UNDERGROUND UTILITIES AND STORMWATER PIPING SHALL BE INSTALLED.
7. THE PERMANENT ROADWAY SUBGRADE SHALL BE COMPACTED AND A LIMEROCK BASE SHALL BE ESTABLISHED AND SEALED.
8. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED. GRASS SEEDING RATES AND MIXTURES SHALL BE PER THE FOR INDEX NO. 104. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS. WETLAND MITIGATION AREAS MAY HAVE THEIR OWN SPECIFIC REQUIREMENTS.

C. SITE DEVELOPMENT DATA:

TOTAL AREA = 15.08 ACRES
EXISTING IMPERVIOUS AREA = 0 ACRES
NEW IMPERVIOUS AREA = 2.98 ACRES
OPEN AREA = 4.45 ACRES
TOTAL RETENTION VOLUME = NONE (WET DETENTION)

D. SOIL CONDITIONS AND STORMWATER QUALITY:

THE SITE SOILS, ACCORDING TO NRCS DATA, CONSIST OF MYAKKA FINE SANE AND POMONA FINE SAND. ACCORDING TO THE GEOTECHNICAL REPORT PROVIDED BY GSE ENGINEERING AND CONSULTING, INC. THE SITE SOILS RANGE FROM SAND WITH SILT AND SILTY SAND UNDERLAIN BY CLAY AND CLAYEY TO VERY CLAYEY SAND. THE WATER QUALITY TREATMENT FOR THE SITE WILL BE PROVIDED BY A WET DETENTION BASIN.

E. SITE MAP

SEE SHEET CO.30 STORMWATER POLLUTION PREVENTION PLAN

F. STORMWATER OUTFALL LOCATION & RECEIVING WATER BODY:

RUN-OFF FROM THE SITE WILL CONSIST OF OVERLAND FLOW TO THE PROPOSED ON-SITE STORM INLETS WHICH WILL CONVEY THE RUN-OFF TO THE WET DETENTION BASIN WHICH DISCHARGES TO COW CREEK.

III. CONTROLS TO REDUCE POLLUTION

AS OUTLINED IN THE ST JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) PERMIT, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ONSITE. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED THAN WHAT IS SPECIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES AS NECESSARY, SECTION IV BELOW PROVIDES DETAILS ON THE SPECIFIC CONTROL MEASURES TO REDUCE STORMWATER POLLUTION.

IV. EROSION AND SEDIMENT CONTROLS

A. STABILIZATION PRACTICES

AS DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN, SILT FENCING SHALL BUFFER AREAS WITH POTENTIAL TO CONTRIBUTE OFFSITE RUNOFF. EXISTING TREES TO REMAIN ON-SITE SHALL BE PROTECTED BY TREE BARRICADE FENCING AS INDICATED IN THE SJRWMD PERMIT, STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL AND DISTURBED AREAS AS SOON AS PERMANENTLY CEASED. AS SPECIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN, UP TO COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER THE FDOT INDEX NO. 104. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

B. STRUCTURAL PRACTICES

TO PREVENT EROSION DURING CONSTRUCTION SILT FENCING WILL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS. ANY EXISTING SWALES SHALL BE PROTECTED ACCORDING TO FDOT INDEX NUMBER 102 UNTIL CONSTRUCTION IS COMPLETE.

C. DRAINAGE BASINS THAT SERVE AREAS WITH LESS THAN 10 ACRES.

NOT APPLICABLE. SEE SECTION D. BELOW.

D. DRAINAGE BASINS THAT SERVE AREAS WITH MORE THAN 10 ACRES.

AS SPECIFIED IN SECTION II.F THE WET DETENTION BASIN WILL PROVIDE TREATMENT OF THE STORMWATER RUN-OFF GENERATED FROM THE PROJECT SITE. THEREFORE NO ADDITIONAL SEDIMENT TRAP BASINS ARE NECESSARY TO PROVIDE SEDIMENT STORAGE ON-SITE DURING CONSTRUCTION. AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN, THE PROPOSED STORMWATER MANAGEMENT SYSTEM, SILT FENCE, SYNTHETIC SILT BARRIER, AND FLOATING BARRIERS WILL PREVENT OFF-SITE EROSION, IN ADDITION TO THE GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS.

V. STORMWATER MANAGEMENT

A. BEST MANAGEMENT PRACTICE

AFTER CONSTRUCTION THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH THE SPECIFIED STORMWATER MAINTENANCE NOTES PROVIDED IN THE ENGINEERING REPORT AND SJRWMD PERMIT. SPECIFICALLY THE DETENTION BASIN SHALL BE MOWED REGULARLY, BASIN SIDE SLOPES SHALL BE MAINTAINED TO PREVENT EROSION, AND LANDSCAPING AND GRASS THAT PREVENTS EROSION SHALL BE MAINTAINED. ADDITIONALLY REMEDIAL ACTIONS SHALL BE TAKEN SHOULD THE DETENTION BASIN NOT PERFORM AS DESIGNED.

B. VELOCITY DISSIPATION DEVICES

NO VELOCITY DISSIPATION DEVICES ARE REQUIRED FOR THIS PROJECT.

C. VEGETATED SWALES

WHEN VEGETATED SWALES ARE UTILIZED, SILT FENCING OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT ADEQUATE INTERVALS TO COLLECT SEDIMENT ALONG THE SWALE. THE SEDIMENT SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF THE HEIGHT OF THE SILT FENCING. SEE THE STORMWATER POLLUTION PREVENTION PLAN FOR DETAILS AND LOCATIONS AS REQUIRED.

VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

A. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER COLLECTION CONTAINERS WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIALS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.

B. DUST CONTROL

TO PREVENT OFFSITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED BY THE SITE CONTRACTOR PER THE EROSION AND SEDIMENTATION CONTROL PLAN.

C. SANITARY WASTE

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

D. FERTILIZERS AND PESTICIDES

THE USE OF FERTILIZERS AND PESTICIDES ON THE PROJECT SITE, SHALL BE AS DIRECTED BY THE LANDSCAPE PLAN AND THE FDOT INDEX NO. 104, TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THIS VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS TO GUARD AGAINST OVERUSE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

E. TOXIC MATERIAL

THE CONSTRUCTION SITE SHALL BE IN FULL COMPLIANCE WITH STATE AND FEDERAL RULE REQUIREMENTS. IN ADDITION, THE SITE SHALL BE IN COMPLIANCE WITH THE MORE STRINGENT PUTNAM COUNTY HAZARDOUS MATERIAL MANAGEMENT CODE, WHICH ADDRESSES STORAGE AND USE OF TOXIC MATERIALS LESS IN VOLUME THAT THE STATE THRESHOLD REQUIREMENTS.

VII. APPROVED STATE AND LOCAL PLANS

THE CONSTRUCTION DRAWINGS FOR THE PROJECT WERE APPROVED AND PERMITTED BY THE FOLLOWING AGENCIES:

- ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (ERP)
- CITY OF GAINESVILLE
- GAINESVILLE REGIONAL UTILITIES

VIII. CONSTRUCTION ACTIVITY DISCHARGES

IN ACCORDANCE WITH THIS PLAN, THE DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES SHALL BE THROUGH OVERLAND FLOW AND THE PROPOSED ON-SITE STORM INLETS.

IX. CHANGES TO THE POLLUTION PREVENTION PLAN

THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGE IN THE STATE REGIONAL, OR LOCAL PERMIT FOR WHICH THE PERMITEE RECEVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE PERMITEE SHALL PROVIDE A RECERTIFICATION OF THIS POLLUTION PREVENTION PLAN, WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES.

X. ALTERNATIVE PERMITS REQUIRED

NO ALTERNATIVE PERMITS REQUIREMENTS ARE REQUESTED.

XI. MAINTENANCE

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETE. IN ADDITION TO THE ITEMS MENTIONED IN THE PREVIOUS SECTION, THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE BASIN DOES NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE.

XII. INSPECTIONS

THE CONTRACTOR SHALL INSPECT ALL POINTS OF POTENTIAL DISCHARGE FROM THE PROJECT SITE FOR ALL DISTURBED AREAS ON THE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS GREATER THAN 0.50 INCHES. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS IN EXCESS OF 0.50 INCHES. LOCATIONS WHERE THE SITE IS COMPLETELY CONSTRUCTED AND STABILIZED, SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH. ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM, A COPY OF WHICH IS INCLUDED ON THIS SHEET. MORE SPECIFICALLY THE INSPECTION SHALL ENSURE THE FOLLOWING:

A. DISTURBED AREAS

ALL DISTURBED AREAS AND AREAS USED FOR MATERIAL STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

B. MAINTENANCE PERFORMANCE

BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER COMPLIANCE WITH THIS PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION.

C. REPORTING REQUIREMENTS

ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM, A COPY OF WHICH IS PROVIDED ON THIS SHEET. THIS FORM IS CREATED TO SUMMARIZE THE SCOPE OF THE INSPECTION, THE NAME AND QUALIFICATION OF THE INSPECTOR, THE DATE OF INSPECTION, OBSERVATIONS, AND ACTIONS TAKEN TO CORRECT NONCOMPLIANCE WITH THE PROVISIONS OF THIS PLAN. THE PERMITEE SHALL RETAIN ALL INSPECTION REPORTS FOR A PERIOD OF THREE YEARS FROM THE DATE WHEN CONSTRUCTION IS COMPLETE OR WHEN THE SITE IS COMPLETELY STABILIZED. A COPY OF THIS PLAN SHALL BE RETAINED AT THE CONSTRUCTION SITE FROM THE DATE OF THE PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

OWNER/AGENT STATEMENT
MAINTENANCE OF EROSION PROTECTION
HEARTWOOD SUBDIVISION
THE OWNER/AGENT IS AWARE OF AND MUST ASSURE MAINTENANCE OF THE EROSION PROTECTION THAT IS ASSOCIATED WITH THE PROJECT DURING CONSTRUCTION.
SITE: HEARTWOOD SUBDIVISION
LOCATION:
OWNER/AGENT NAME, TITLE
OWNER/AGENT SIGNATURE AND DATE

XIII. NON STORMWATER DISCHARGES

A. IN ADDITION TO STORM WATER RUNOFF, THIS PLAN APPLIES TO RUN OFF FROM IRRIGATION OPERATIONS AND CONSTRUCTION PRACTICES. THIS PLAN DOES NOT PERTAIN TO DISCHARGE FROM FIRE FIGHTING ACTIVITIES.

XIV. CONTRACTOR'S CERTIFICATION

A. THE CONTRACTORS OR SUB-CONTRACTORS SHALL PHOTOCOPY AND COMPLETE THE FORM ON THIS PAGE. IT SHALL BE PROVIDED TO THE OWNER AND KEPT ON FILE PURSUANT TO SECTION XV REGARDING PROJECT RECORDS.

XV. RETENTION OF RECORDS

- A. THE PERMITEE SHALL RETAIN COPIES OF STORMWATER POLLUTION PREVENTION PLANS AND ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.
B. THE PERMITEE SHALL RETAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REPORTS, RECORDS AND DOCUMENTATION REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOI, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

XVI. NOTICE OF TERMINATION

- A. WHERE A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES AUTHORIZED BY THIS PERMIT ARE ELIMINATED, THE PERMITEE SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION (DEP FORM 62-621.300(6)), SIGNED IN ACCORDANCE WITH PART IX.C. OF THIS PERMIT, WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT.
B. ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MEANS THAT ALL DISTURBED SOILS AT THE SITE HAVE BEEN FINALLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME, OR THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN ELIMINATED.
C. WHEN CONSTRUCTION AND FINAL STABILIZATION OF THE SITE HAS BEEN COMPLETED AND SEDIMENTATION CONTROL DEVICES HAVE BEEN REMOVED; THE PERMITEE SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO THE FOLLOWING ADDRESS:

NPDES STORMWATER NOTICES CENTER, MS#2510
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

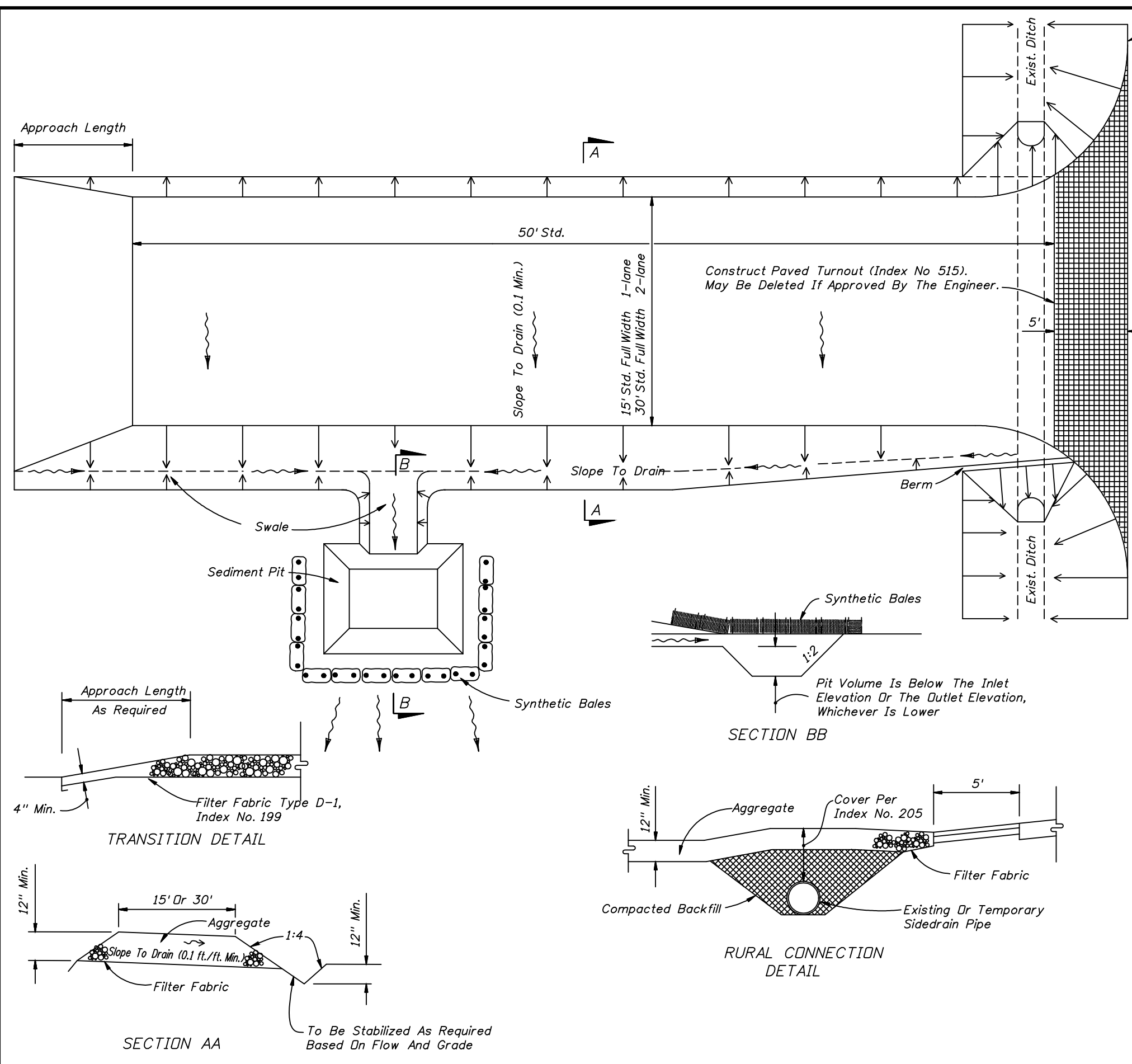
CONSTRUCTION INSPECTION FORM
STORMWATER POLLUTION PREVENT PLAN
INSPECTION FREQUENCY: WEEKLY OR AFTER 0.50 INCHES OF RAIN
PROJECT NAME: HEARTWOOD SUBDIVISION
OWNER:
CONTRACTOR:
CONSTRUCTION MANAGER:
FORM INSTRUCTIONS: ENTER THE DATE OF THE INSPECTION. IF THE INSPECTED ITEM IS SATISFACTORY, INSERT A CHECK. IF THE INSPECTED ITEM IS UNSATISFACTORY, INSERT AN "X" AND DESCRIBE THE MAINTENANCE ACTIONS TAKEN TO CORRECT THE PROBLEM. THE INSPECTOR SHALL ENTER THEIR INITIALS. CREATE ADDITIONAL SHEETS IF NECESSARY.
Table with columns: DATE OF INSPECTION, SILT FENCING, TREE BARRICADES, ETC., CONSTRUCTION ENTRANCE, LITTER CONTROL, BASINS AND SWALES, STORM DRAIN STRUCTURES, STORM DRAIN PIPING, MATERIAL STORAGE AREAS, DUST CONTROL, BUFFER AND NATURAL AREAS, LANDSCAPING, SOD AND SEED ONSITE & ADJACENT WETLANDS AND WATER BODIES, OBSERVATIONS OR MAINTENANCE ACTIONS TAKEN, INSPECTED BY

CERTIFICATION STATEMENT
STORMWATER POLLUTION PREVENT PLAN
HEARTWOOD SUBDIVISION
THE CONTRACTOR(S) OR SUB-CONTRACTOR(S) RESPONSIBLE FOR COMPLYING WITH THIS STORMWATER POLLUTION PREVENTION PLAN SHALL SIGN THE CERTIFICATION STATEMENT BELOW. MULTIPLE COPIES OF THIS CERTIFICATION STATEMENT MAY BE NECESSARY DEPENDING ON THE NUMBER OF SUB-CONTRACTORS ASSOCIATED WITH THE PROJECT.
SITE: HEARTWOOD SUBDIVISION
LOCATION:
CONTRACTING FIRM: FIRM NAME, ADDRESS, TELEPHONE NUMBER
NAME, TITLE
SIGNATURE AND DATE

Vertical sidebar containing: STORMWATER POLLUTION PREVENTION PLAN NOTES, HEARTWOOD SUBDIVISION, ALACHUA COUNTY, FL, DRMP logo, DRMP, Inc., and project details including project number 15-0415.000, scale NONE, date FEBRUARY 1, 2018, and drawing number C0.31.

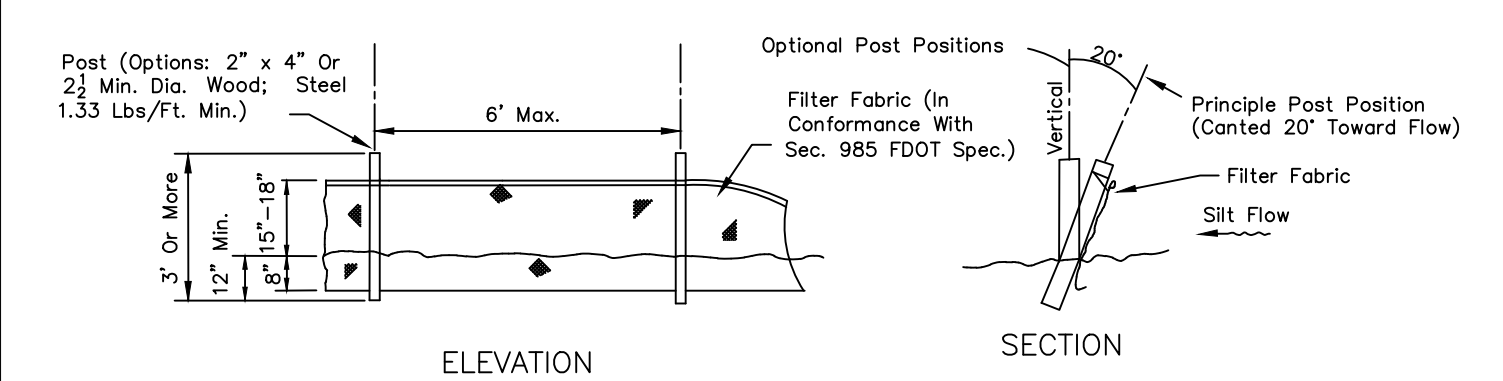


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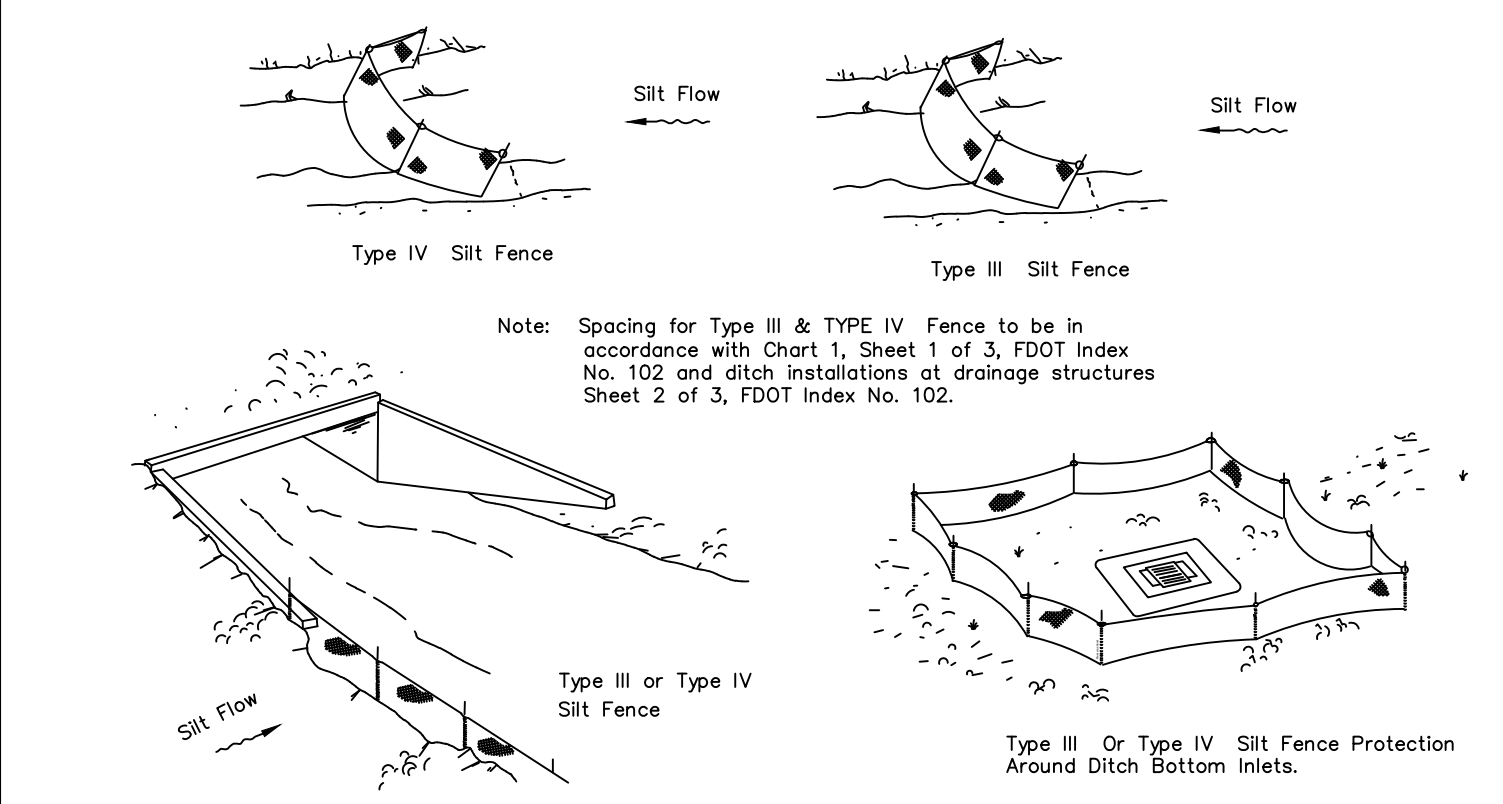


**SOIL TRACKING PREVENTION DEVICE**  
NOT TO SCALE

- GENERAL NOTES**
1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
  2. The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use. Design must be approved by the City of Gainesville prior to construction.
  3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
  4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
  5. The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:  
As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, synthetic bales or silt fence shall be placed along the entire length.
  6. The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
  7. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
  8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracking.
  9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, E.A. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD; including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, L.F. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, L.F.
  10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.



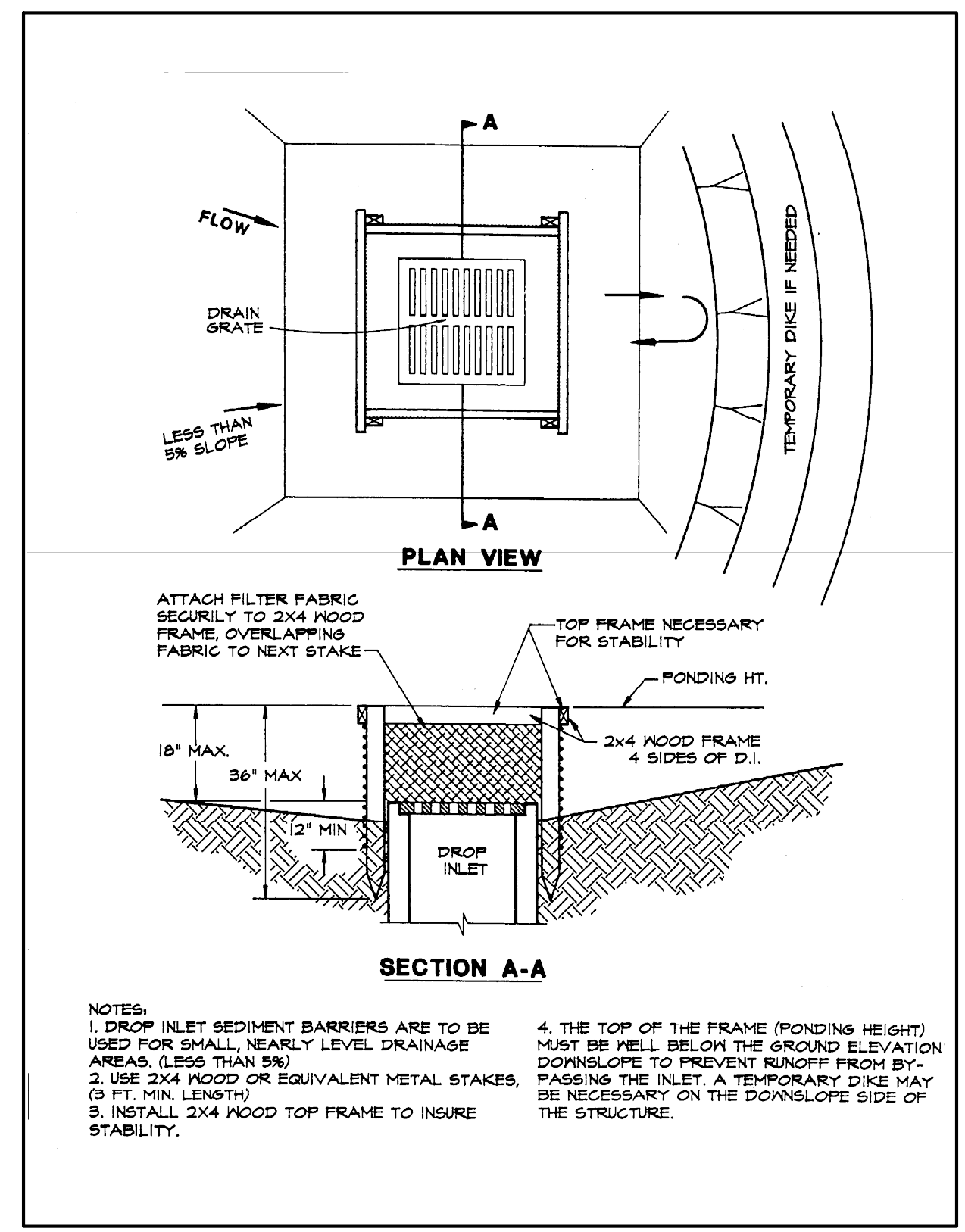
**TYPE III SILT FENCE**



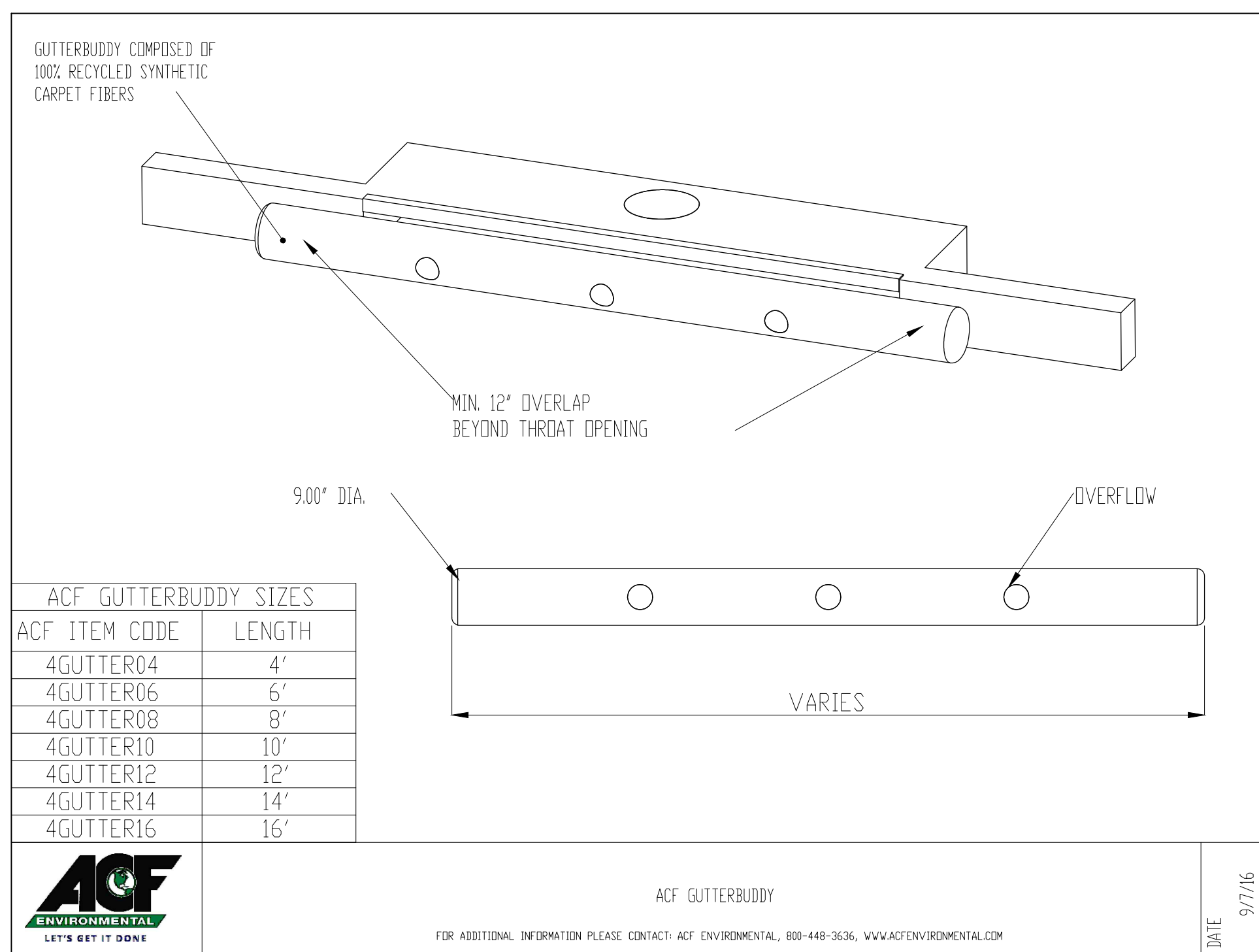
**SILT FENCE APPLICATIONS**  
**SILT FENCE TYPE III**

(D-90B)  
N.T.S.

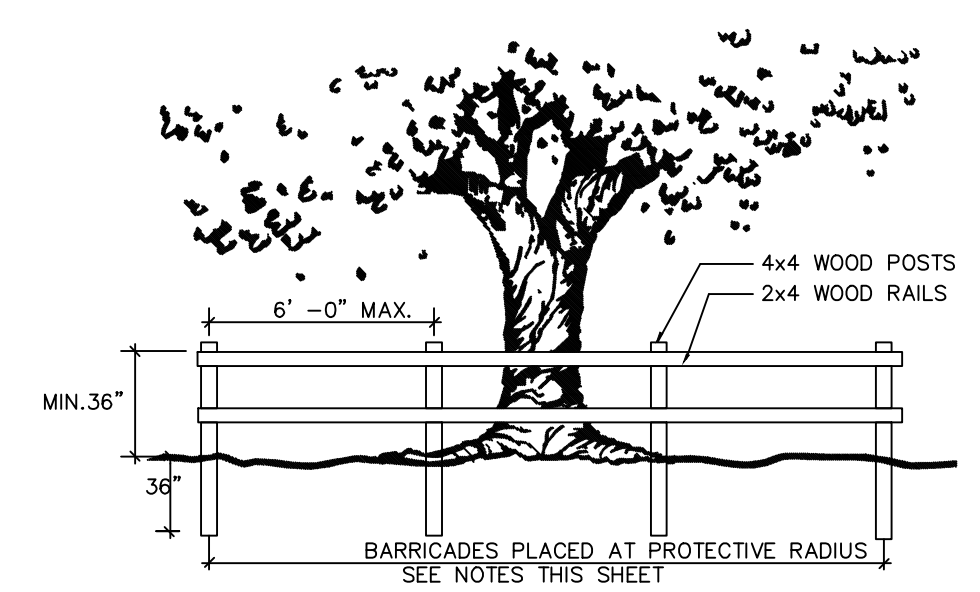
NOTE: INSTALLATION OF SILT FENCE AND INLET PROTECTION SHALL BE IN ACCORDANCE WITH THE FDEP "FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL" AND FDOT/FDEP "STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL."



**Silt Fence Drop Inlet Sediment Barrier**  
**DRAIN INLET PROTECTION FOR UNSTABILIZED AREAS**  
NOT TO SCALE

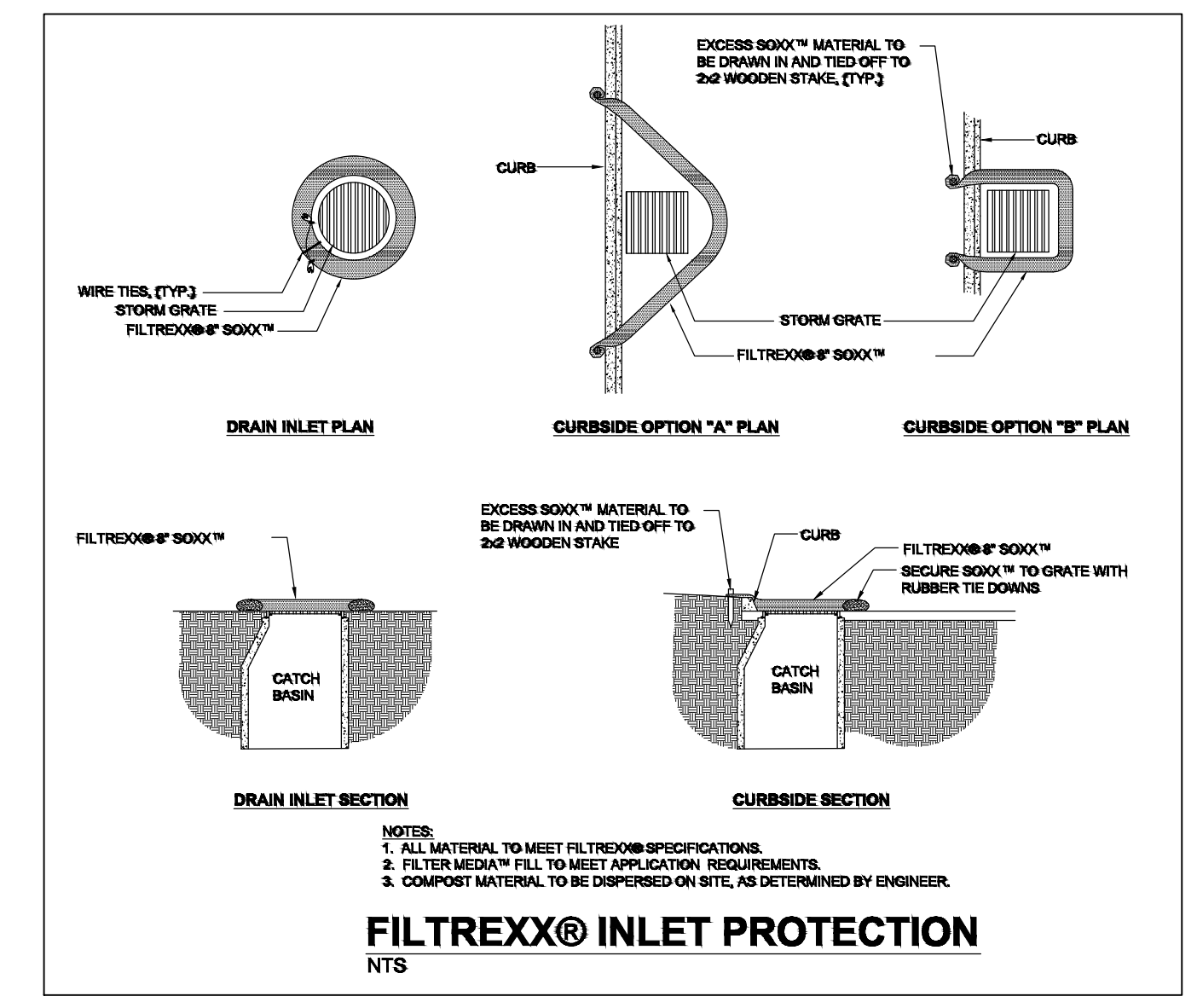


**ACF GUTTERBUDDY**  
**CURB INLET PROTECTION**  
NOT TO SCALE



**TREE PROTECTION BARRICADE DETAIL**

1. TREE BARRICADES SHALL BE INSTALLED AROUND ALL TREES ADJACENT TO CONSTRUCTION ACTIVITY. CONTRACTOR TO CONTACT CITY ARBORIST FOR INSPECTION
2. PRIOR TO CLEARING, DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES, PROTECTIVE BARRIERS SHALL BE CONSTRUCTED, AS NECESSARY, AND INSPECTED BY THE CITY TO PREVENT THE DESTRUCTION OR DAMAGING OF REGULATED TREES THAT ARE LOCATED AS INDICATED IN THE PLANS OR WITHIN 15 FEET OF ANY CONSTRUCTION ACTIVITY OR STORAGE OF EQUIPMENT AND MATERIALS.
3. PROTECTIVE BARRIERS SHALL BE PLAINLY VISIBLE AND SHALL CREATE A CONTINUOUS BOUNDARY AROUND TREES OR VEGETATION CLUSTERS IN ORDER TO PREVENT ENCROACHMENT BY MACHINERY, VEHICLES OR STORED MATERIALS.
4. BARRICADES MUST BE AT LEAST THREE FEET TALL AND MUST BE CONSTRUCTED OF EITHER WOODEN CORNER POSTS AT LEAST TWO BY FOUR INCHES BURIED AT LEAST ONE FOOT DEEP, WITH AT LEAST TWO COURSES OF WOODEN SIDE SLATS AT LEAST ONE BY FOUR INCHES WITH COLORED FLAGGING OR COLORED MESH ATTACHED, OR CONSTRUCTED OF ONE-INCH ANGLE IRON CORNER POSTS WITH BRIGHTLY COLORED MESH CONSTRUCTION FENCING ATTACHED.
5. PROTECTIVE BARRIERS SHALL BE PLACED AS FOLLOWS:
  - 5.1. AT OR OUTSIDE THE DRIPLINE FOR ALL HERITAGE AND CHAMPION TREES AND ALL REGULATED PINE AND PALM TREES.
  - 5.2. AT A MINIMUM OF TWO-THIRDS OF THE AREA OF THE DRIPLINE FOR ALL OTHER REGULATED SPECIES.
  - 5.3. WHERE ROOTS GREATER THAN ONE INCH IN DIAMETER ARE DAMAGED OR EXPOSED, THEY SHALL BE CUT CLEANLY AND RE-COVERED WITH SOIL BY THE END OF THE WORK DAY.
6. PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN OR CONSTRUCTION NEEDS DICTATE A TEMPORARY REMOVAL THAT WILL NOT HARM THE TREE. NO BUILDING MATERIALS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS DEFINED IN THIS SECTION, EXCEPT SHORT-DURATION PLACEMENTS OF CLEAN FILL SOIL THAT WILL NOT HARM THE TREE. SUCH SHORT-DURATION PLACEMENTS SHALL NOT EXCEED 30 DAYS. THE ORIGINAL SOIL GRADE THAT EXISTED WITHIN THE PROTECTED AREAS PRIOR TO THE PLACEMENT OF SUCH FILL SHALL BE RESTORED.
7. ATTACHMENTS TO TREES ARE PROHIBITED. NO ATTACHMENTS OR WIRES OTHER THAN THOSE OF A PROTECTIVE AND NON-DAMAGING NATURE SHALL BE ATTACHED TO ANY TREE.
8. THE CITY SHALL CONDUCT PERIODIC INSPECTIONS OF THE SITE BEFORE WORK BEGINS AND/OR DURING CLEARING, CONSTRUCTION AND/OR POST-CONSTRUCTION PHASES IN ORDER TO ENSURE COMPLIANCE WITH CITY REGULATIONS AND THE INTENT OF THIS SECTION.
9. CONTRACTOR MUST TAKE OWNERSHIP OF AND DISPOSE OF ALL REMOVED MATERIALS.
10. APPROVAL FROM THE CITY IS REQUIRED FOR ANY DEVIATIONS TO THIS SECTION.
11. ALL UTILITIES CROSSING THE ROADWAY SHOWN TO BE DEMOLISHED SHALL BE ABANDONED IN PLACE AT 2' BEYOND BACK OF CURB.



**FILTREX® INLET PROTECTION**  
**DRAIN INLET PROTECTION FOR STABILIZED AREAS**  
NOT TO SCALE

DESIGNED BY	DS	JW	DS	CT
DRAWN BY				
CHECKED BY				
APPROVED BY				

**100% CONFORMED DOCUMENTS FOR**

**HEARTWOOD SUBDIVISION**

**ALACHUA COUNTY, FL**

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**DRMP, Inc.**

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS

Certificate of Authorization No. 2648  
7525 NW 75th Blvd, Suite 70  
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www.DRMP.com

DAVID C. SOWELL, P.E.  
FLORIDA P.E. NO.: 68531

PROJECT NO.:  
15-0415.000

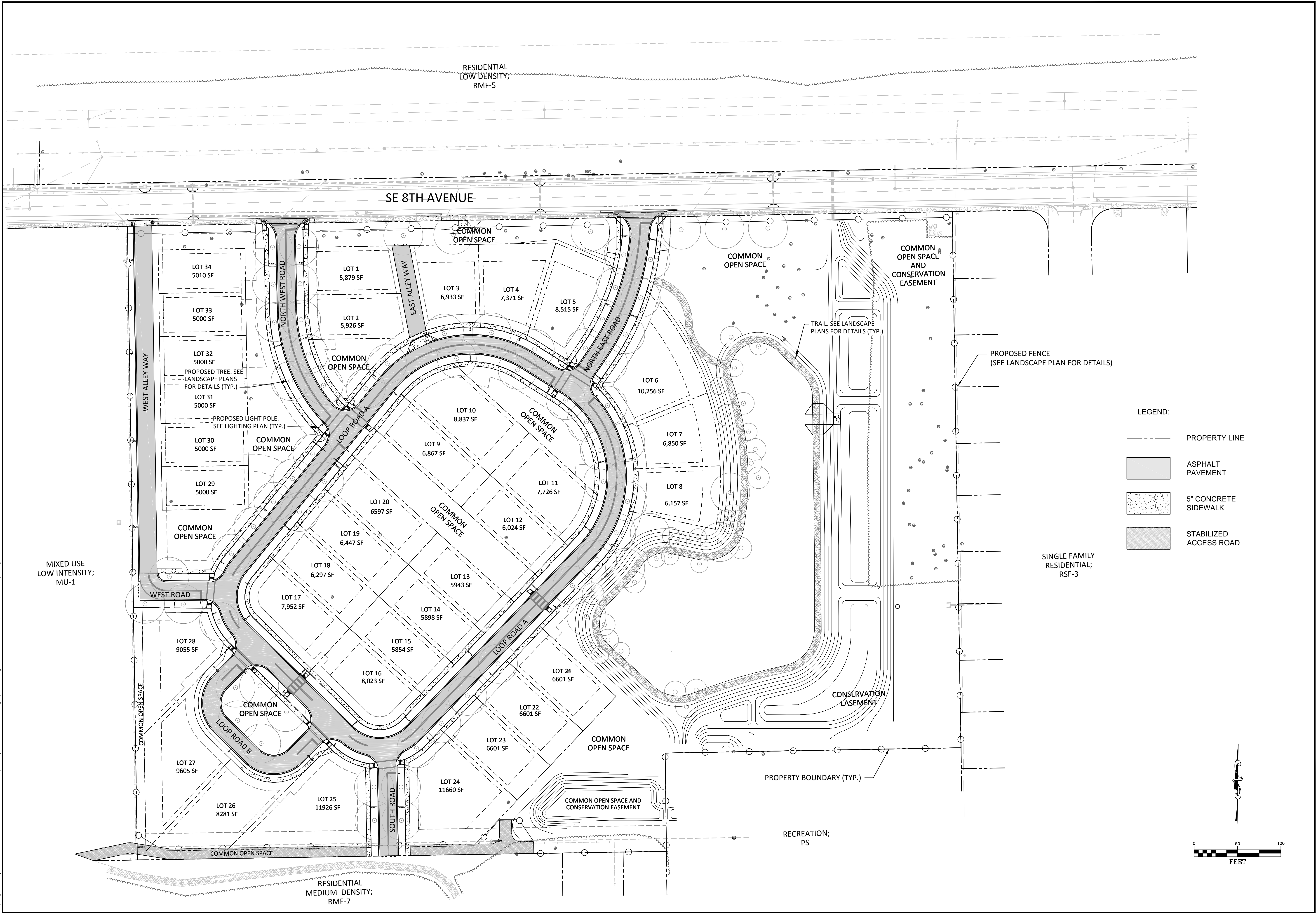
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NO.			DATE			DESCRIPTION			BY		

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PROJECT NO.:  
 15-0415.000

SCALE:  
 1" = 50'

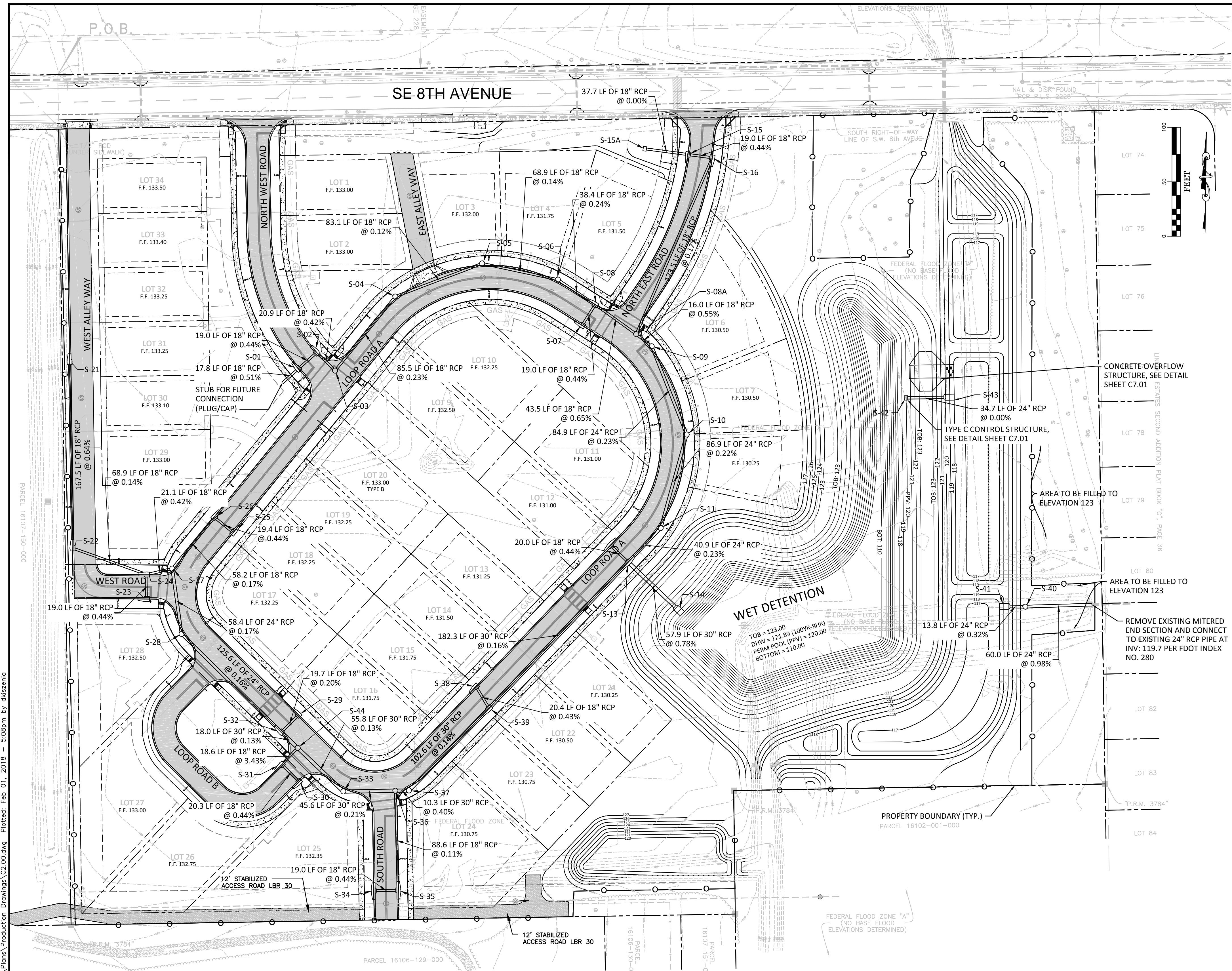
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- 1.** ALL WORK WITHIN OR ON CITY OWNED OR MAINTAINED FACILITIES, ROW OR EASEMENT WILL REQUIRE AS-BUILT PLANS. AS-BUILT PLANS SHOULD SHOW THE CONSTRUCTED CONDITIONS OF THE CITY OWNED OR MAINTAINED AREA AND BE PERFORMED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER. REQUIREMENTS FURTHER DESCRIBED IN THE CITY OF GAINESVILLE DESIGN AND CONSTRUCTION MANUAL (CURRENT EDITION) SECTION 8.3.
- 2.** THE CONTRACTOR SHALL PROVIDE THE CITY WITH AN AS-BUILT SURVEY OF THE RETENTION / DETENTION BASIN AND ASSOCIATED STRUCTURES, PREPARED BY A REGISTERED LAND SURVEYOR. THE SURVEY SHALL BE SUBMITTED ON PAPER COPY AND ELECTRONICALLY (PDF AUTODESK CAD) REQUIREMENTS FURTHER DESCRIBED IN THE CITY OF GAINESVILLE DESIGN AND CONSTRUCTION MANUAL (CURRENT EDITION) SECTION 10.8.7.
- 3.** ANY CONSTRUCTION IN THE CITY OF GAINESVILLE PUBLIC ROW WILL REQUIRE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING WORK. A MOT PERMIT IS REQUIRED FOR ANY ACTIVITY IN THE ROW THAT EITHER DIRECTLY OR INDIRECTLY AFFECTS VEHICULAR OR PEDESTRIAN TRAFFIC.
- 4.** OPEN CUT RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH FDOT INDEX 307, AND USING THE FLOWABLE FILL OPTION.
- 5.** FLEXIBLE PAVEMENTS ARE TO BE EVALUATED AND DESIGNED IN ACCORDANCE WITH THE FDOT FLEXIBLE PAVEMENT DESIGN MANUAL AND FDOT STANDARDS INDEX 514. ADDITIONAL PROVISIONS ARE FURTHER DESCRIBED IN THE CITY OF GAINESVILLE DESIGN AND CONSTRUCTION MANUAL (CURRENT EDITION) SECTION 10.8.7.
- 6.** ALL REQUIRED BACKFILL WITHIN THE ROW SHALL BE DOCUMENTED WITHIN FOOT TYPE DENSITY LOG BOOK, COMPILED AND MAINTAINED BY THE CONTRACTOR, AND AVAILABLE FOR REVIEW BY THE PUBLIC WORKS INSPECTOR UPON REQUEST. THIS LOG BOOK SHALL BE SIGNED AND SEALED BY THE ENGINEER AND TURNED OVER TO THE PW DEPARTMENT FOR REVIEW AND ACCEPTANCE AS PART OF THE CLOSEOUT DOCUMENTS.
- DRAINAGE SPECIFICATIONS**
1. CURB INLET TOPS SHALL BE BUILT IN ACCORDANCE WITH FDOT INDEX NUMBERS 211 AND 200.
2. DITCH BOTTOM INLETS SHALL BE BUILT IN ACCORDANCE WITH FDOT INDEX NUMBERS 232 AND 233.
3. MANHOLES SHALL BE BUILT IN ACCORDANCE WITH FDOT INDEX 201.
4. STRUCTURE BOTTOMS TO BE BUILT IN ACCORDANCE WITH FDOT INDEX 200 AND 201.
5. MITERED IN SECTION TO BE BUILT IN ACCORDANCE WITH FDOT INDEX NUMBER 272.

**LEGEND:**

- PROPOSED NCRFCP FLOOD ZONE
- SILT FENCE
- - - PROPERTY LINE
- ASPHALT PAVEMENT
- 4" CONCRETE SIDEWALK
- STABILIZED LIMEROCK ACCESS ROAD

Mitered End Table			
Structure Name	Structure Details	Invert Elev.	Northing & Easting
S-14	4:1 MITERED END SECTION	NW: 116.50 (30")	N: 240648.05 E: 2666482.40
S-41	4:1 MITERED END SECTION	E: 118.00 (24")	N: 240651.38 E: 2666782.07
S-43	4:1 MITERED END SECTION	W: 118.00 (24")	N: 240843.38 E: 2666730.52

STORMWATER STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	TOP	INVERT ELEV.	NORTHING & EASTING
S-01	TYPE 5 CURB INLET	131.37 (E.O.P.)	123.80 (18")SW 123.80 (18")NE	N:240869.52 E:2666133.35
S-02	TYPE 5 CURB INLET	131.37 (E.O.P.)	123.70 (18")SE 123.70 (18")SW	N:240884.41 E:2666150.21
S-03	CONCENTRIC CYLINDRICAL MANHOLE	131.41	123.60 (18")NW 123.60 (18")NE	N:240867.81 E:2666167.11
S-04	CONCENTRIC CYLINDRICAL MANHOLE	131.36	123.40 (18")SW 123.40 (18")E	N:240935.84 E:2666222.46
S-05	CONCENTRIC CYLINDRICAL MANHOLE	130.84	123.30 (18")W 123.30 (18")E	N:240966.20 E:2666302.14
S-06	CONCENTRIC CYLINDRICAL MANHOLE	130.41	123.20 (18")SE 123.20 (18")W	N:240951.35 E:2666371.68
S-07	TYPE 5 CURB INLET	129.62 (E.O.P.)	125.49 (18")NE	N:240909.38 E:2666393.96
S-08	TYPE 5 CURB INLET	129.62 (E.O.P.)	123.10 (18")NW 122.90 (18")SE 125.39 (18")SW	N:240928.44 E:2666405.93
S-08A	CONCENTRIC CYLINDRICAL MANHOLE	129.31	122.60 (18")SE 122.60 (18")NW 122.60 (18")NE	N:240901.36 E:2666443.54
S-09	CONCENTRIC CYLINDRICAL MANHOLE	129.64	122.10 (24")S 122.50 (18")NW	N:240890.12 E:2666457.79
S-10	CONCENTRIC CYLINDRICAL MANHOLE	129.39	121.90 (24")S 121.90 (24")N	N:240809.18 E:2666489.92
S-11	CONCENTRIC CYLINDRICAL MANHOLE	128.98	121.70 (24")SW 121.70 (24")N	N:240723.35 E:2666466.02
S-12	TYPE 6 CURB INLET WITH WEEP HOLES PER FDOT INDEX NO. 201	128.24 (E.O.P.)	118.60 (18")SE	N:240707.53 E:2666419.90
S-13	TYPE 6 CURB INLET WITH RECTANGULAR BOTTOM WITH WEEP HOLES PER FDOT INDEX NO. 201	128.24 (E.O.P.)	120.70 (30")SW 121.60 (24")NE 118.50 (18")NW 117.00 (30")SE	N:240692.02 E:2666436.20
S-15	TYPE 5 CURB INLET	127.89 (E.O.P.)	123.10 (18")W 123.00 (18")E	N:241066.24 E:2666491.07
S-15A	TYPE C DITCH BOTTOM INLET 2'-12" SLOT INV. EL. 127.00	128.00	123.10 (18")E	N:241071.51 E:2666451.42
S-16	TYPE 5 CURB INLET	127.89 (E.O.P.)	122.90 (18")SW 122.90 (18")W	N:241063.28 E:2666513.38
S-21	TYPE 5 CURB INLET	131.36 (E.O.P.)	123.00 (18")S	N:240875.83 E:2665923.41
S-22	TYPE 5 CURB INLET	130.44 (E.O.P.)	121.90 (18")E 121.90 (18")N	N:240704.88 E:2665926.09
S-23	TYPE 5 CURB INLET	130.23 (E.O.P.)	121.90 (18")N	N:240658.16 E:2665994.12
S-24	TYPE 5 CURB INLET	130.23 (E.O.P.)	121.80 (18")E 121.80 (18")W 121.80 (18")S	N:240680.66 E:2665994.27
S-25	TYPE 5 CURB INLET	130.91 (E.O.P.)	121.90 (18")NW	N:240719.18 E:2666073.58
S-26	TYPE 5 CURB INLET	130.91 (E.O.P.)	121.80 (18")SW 121.80 (18")SE	N:240733.24 E:2666056.30
S-27	CONCENTRIC CYLINDRICAL MANHOLE	131.01	121.70 (18")W 121.70 (18")NE 121.70 (18")E	N:240686.04 E:2666017.61
S-28	CONCENTRIC CYLINDRICAL MANHOLE	130.99	121.60 (24")SE 121.60 (24")N	N:240626.05 E:2666026.20
S-29	TYPE 5 CURB INLET	130.12 (E.O.P.)	123.72 (18")SW	N:240551.90 E:2666133.50
S-30	TYPE 5 CURB INLET	129.59 (E.O.P.)	122.20 (18")NW	N:240490.42 E:2666134.11
S-31	TYPE 5 CURB INLET	129.59 (E.O.P.)	122.10 (18")NE 122.10 (18")SE	N:240506.21 E:2666118.08
S-32	TYPE 5 CURB INLET	130.12 (E.O.P.)	121.40 (30")SE 121.40 (24")N	N:240535.87 E:2666117.71
S-33	CONCENTRIC CYLINDRICAL MANHOLE	130.32	121.30 (30")NW 121.30 (30")E	N:240481.45 E:2666174.72
S-34	TYPE 6 CURB INLET	127.94 (E.O.P.)	121.50 (18")E	N:240390.40 E:2666202.63
S-35	TYPE 6 CURB INLET	127.94 (E.O.P.)	121.40 (18")W 121.40 (18")N	N:240390.74 E:2666225.13
S-36	CONCENTRIC CYLINDRICAL MANHOLE	129.74	121.20 (30")W 121.20 (18")S	N:240482.17 E:2666222.49
S-37	CONCENTRIC CYLINDRICAL MANHOLE	130.11	121.15 (30")W 121.15 (30")NE	N:240482.36 E:2666234.90
S-38	TYPE 5 CURB INLET	129.15 (E.O.P.)	122.10 (18")SE	N:240577.83 E:2666296.44
S-39	TYPE 5 CURB INLET	129.19 (E.O.P.)	121.00 (30")SW 121.00 (30")NE 122.00 (18")NW	N:240557.83 E:2666308.47
S-40	CONCENTRIC CYLINDRICAL MANHOLE	123.60	119.10 (24")E 118.06 (24")W	N:240651.14 E:2666800.89
S-42	SEE SHEET C7.01	SEE SHEET C7.01	SEE SHEET C7.01	N:240842.80 E:266691.21
S-44	CONCENTRIC CYLINDRICAL MANHOLE	130.05	121.37 (30")NW 121.37 (30")SE 121.37 (18")SW	N:240521.49 E:2666132.77

R E V I S I O N S

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: DS    DRAWN BY: JW    CHECKED BY: DS    APPROVED BY: CT

100% CONFORMED DOCUMENTS FOR

**HEARTWOOD SUBDIVISION**

**PAVING GRADING AND DRAINAGE PLAN**

ALACHUA COUNTY, FL

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DAVID C. SOWELL, P.E.  
FLORIDA P.E. NO.: 68531

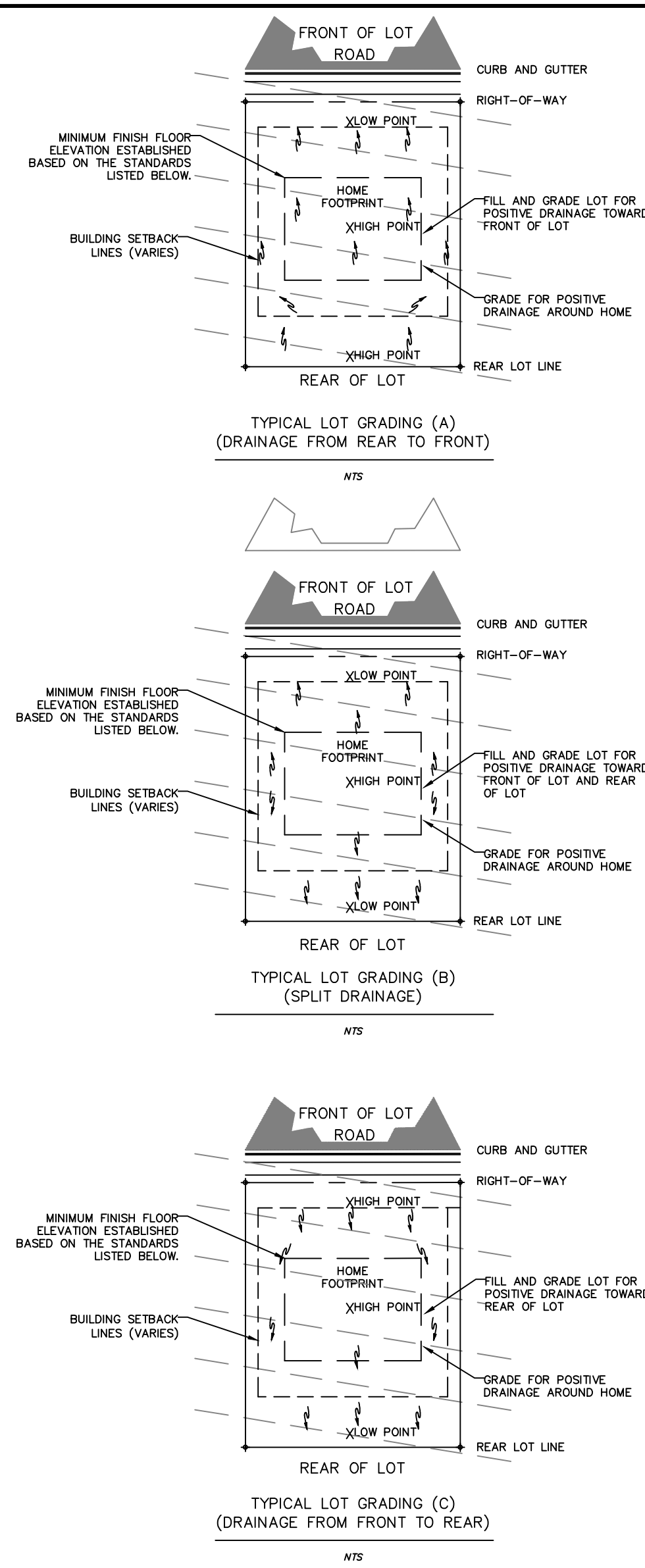
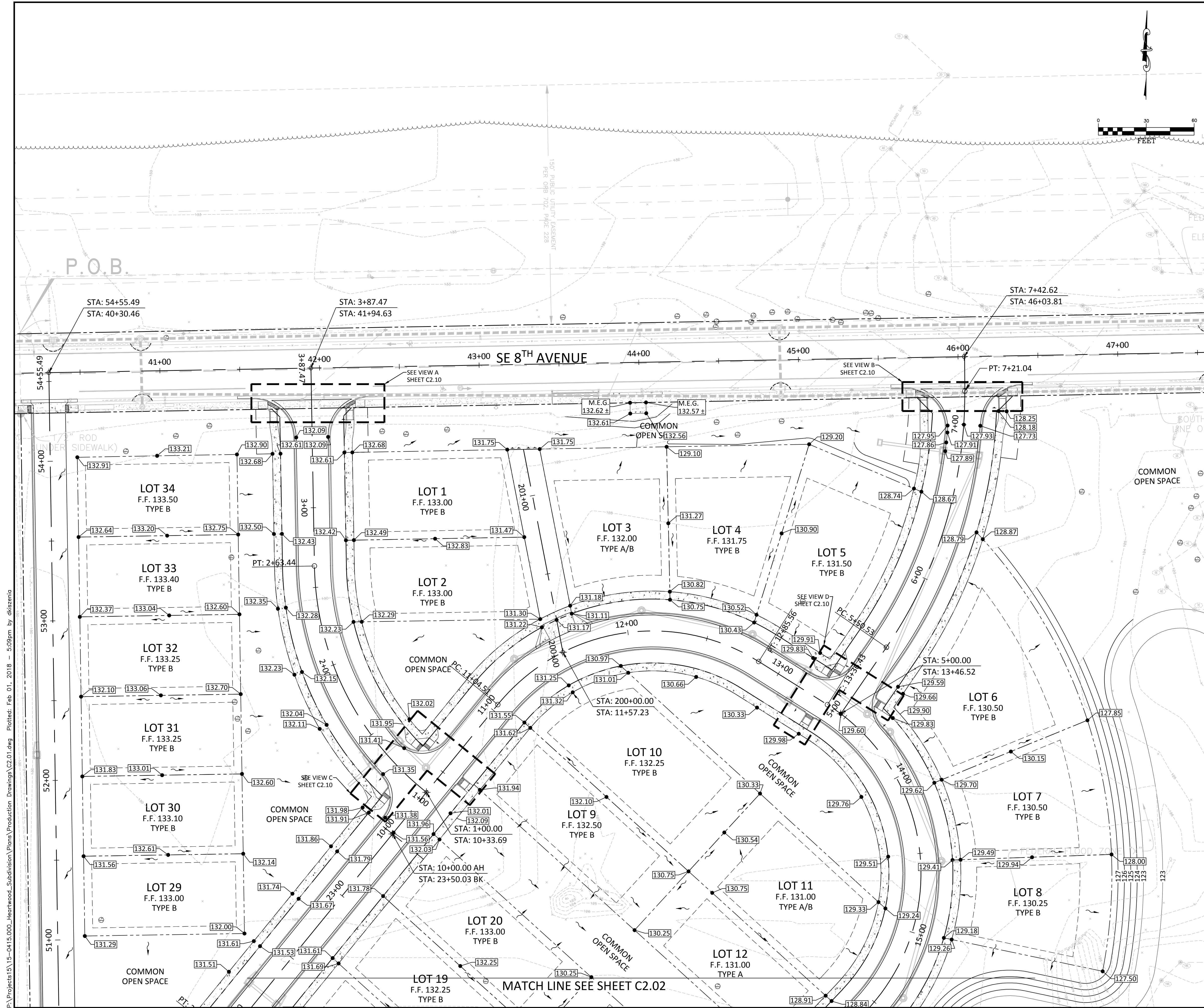
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SCALE: 1" = 50'

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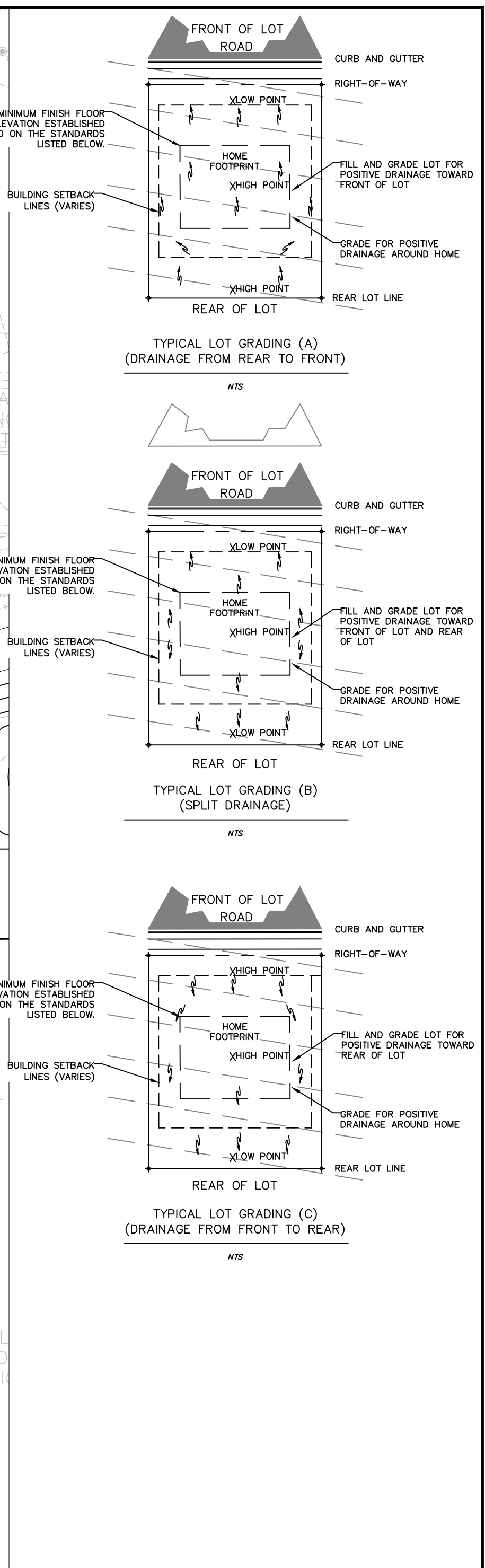
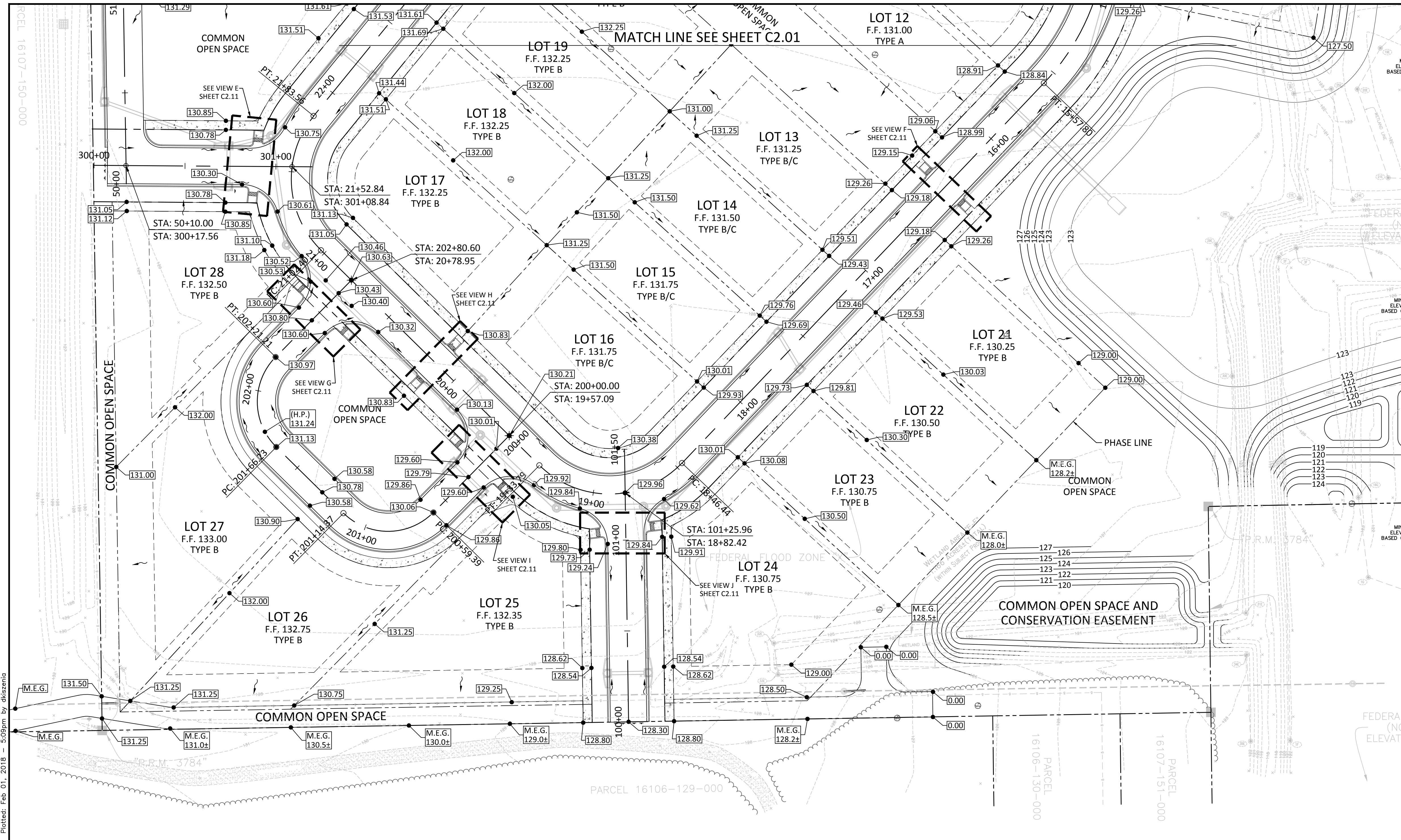


**NOTE:**  
 THE MINIMUM FINISH FLOOR ELEVATION SHALL BE DETERMINED BY THE GREATER OF THE FOLLOWING: 1' (FT) ABOVE THE TOP OF BANK, 1' ABOVE THE BASE FLOOD ELEVATION; 6" ABOVE THE RIM ELEVATION OF THE LOWEST UPSTREAM SANITARY SEWER MANHOLE RIM; OR 18" ABOVE THE SEWER CLEANOUT INVERT AT THE PUE LINE. IN NO CASE SHALL THE MINIMUM FFE FOR ANY LOT ADJACENT TO A STORMWATER MANAGEMENT FACILITY BE LESS THAN THE TOP OF BANK OF FACILITY.

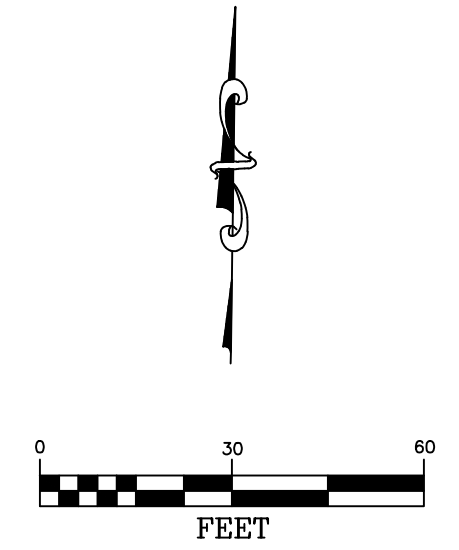
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NO.	DATE	DS	JW	DS	CT				
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DATE:		FEBRUARY 1, 2018							
DRAWING:		C2.01							

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**NOTE:**  
 THE MINIMUM FINISH FLOOR ELEVATION SHALL BE DETERMINED BY THE GREATER OF THE FOLLOWING: 1' (FT) ABOVE THE TOP OF BANK, 1' ABOVE THE BASE FLOOD ELEVATION; 6" ABOVE THE RIM ELEVATION OF THE LOWEST UPSTREAM SANITARY SEWER MANHOLE RIM; OR 18" ABOVE THE SEWER CLEANOUT INVERT AT THE PUE LINE. IN NO CASE SHALL THE MINIMUM FFE FOR ANY LOT ADJACENT TO A STORMWATER MANAGEMENT FACILITY BE LESS THAN THE TOP OF BANK OF FACILITY.



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### LOT GRADING PLAN

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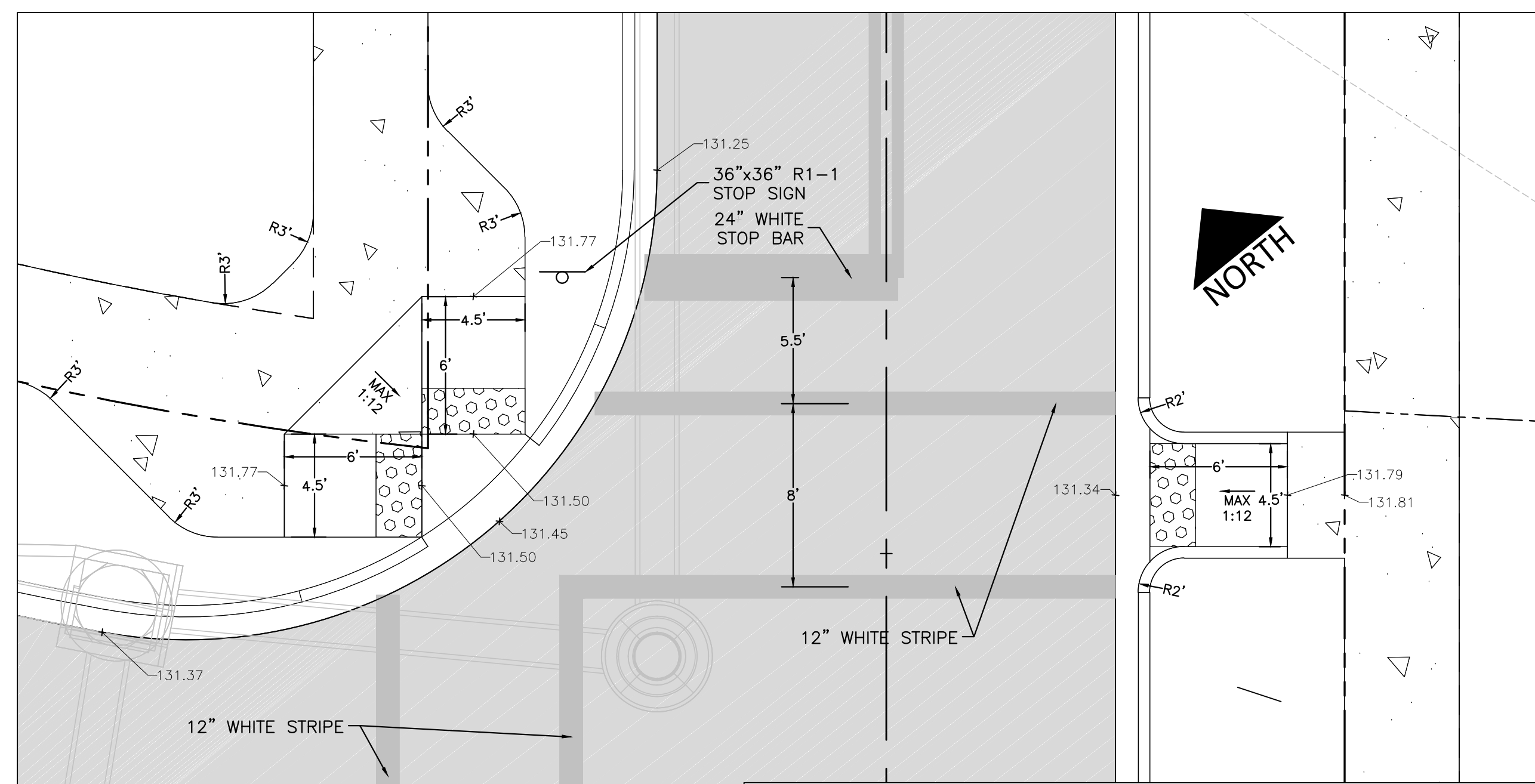
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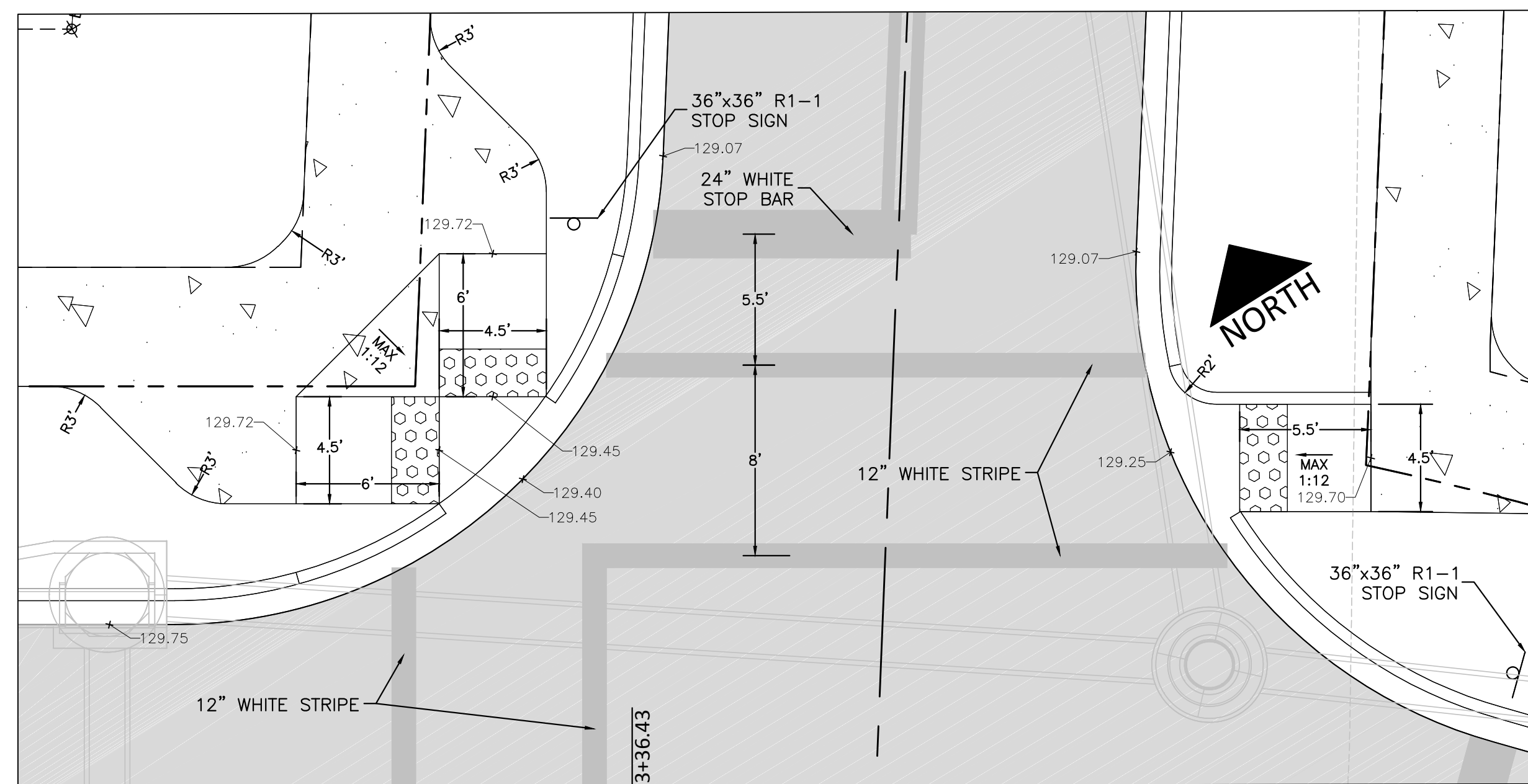
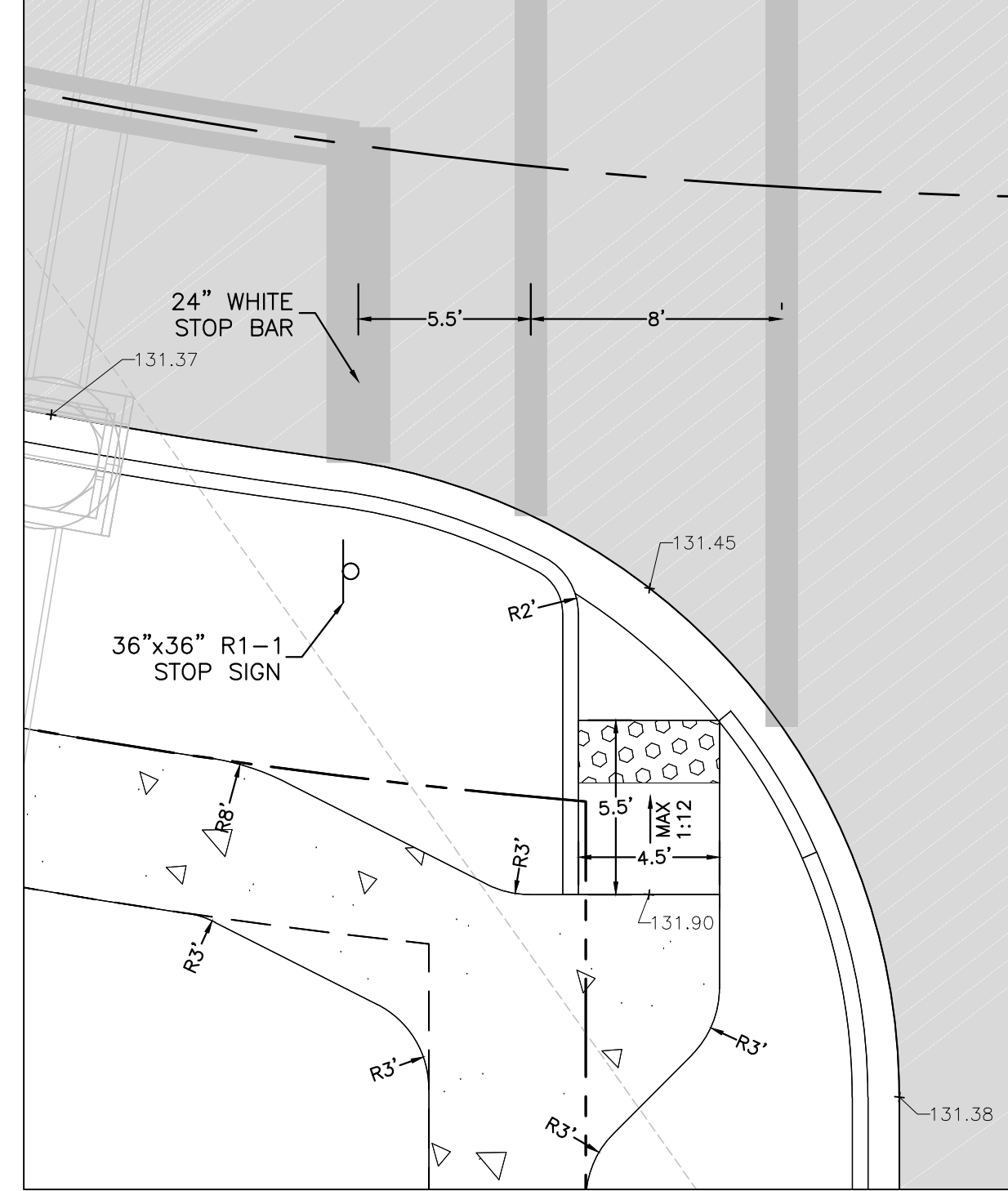
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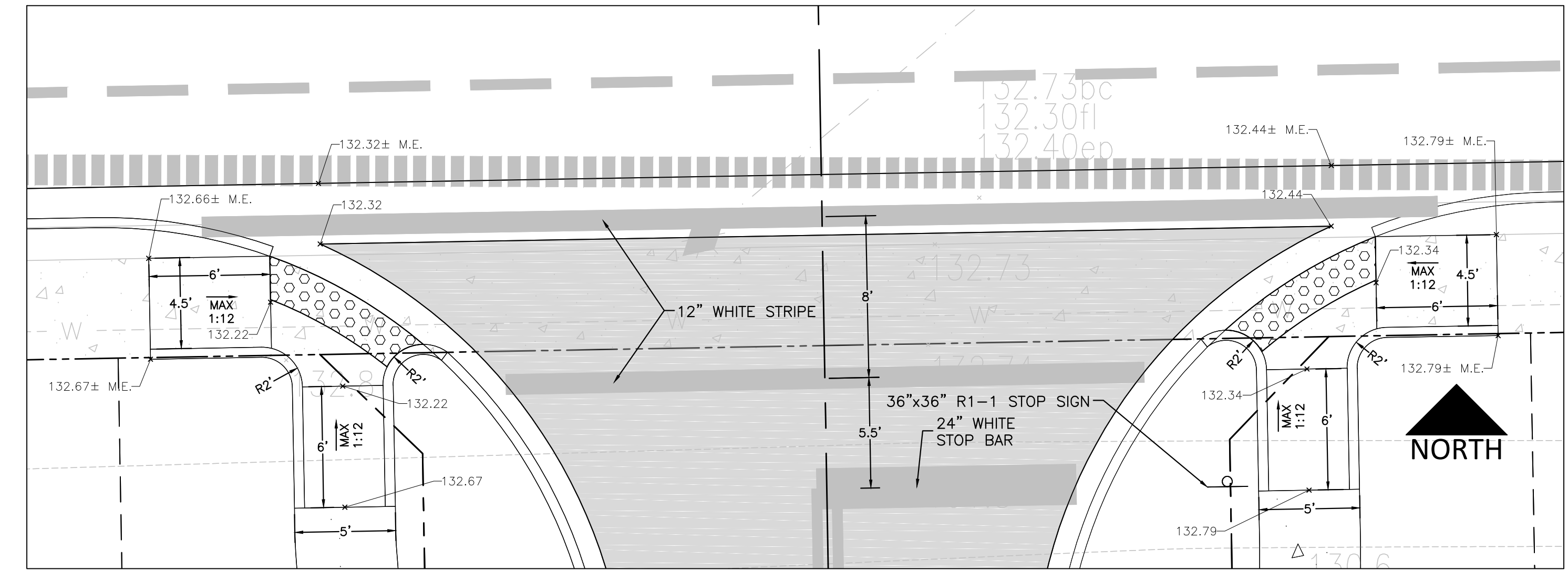
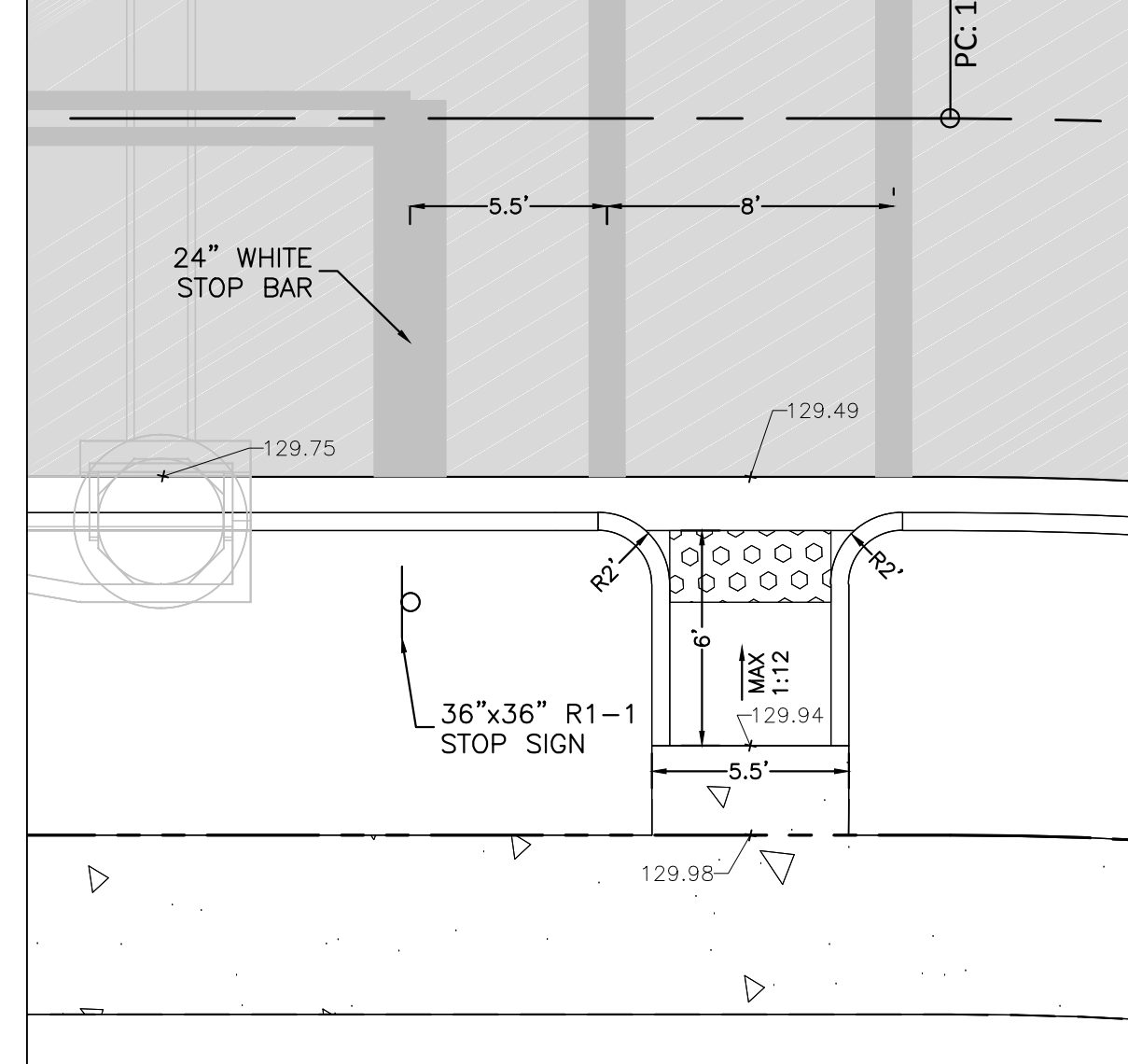
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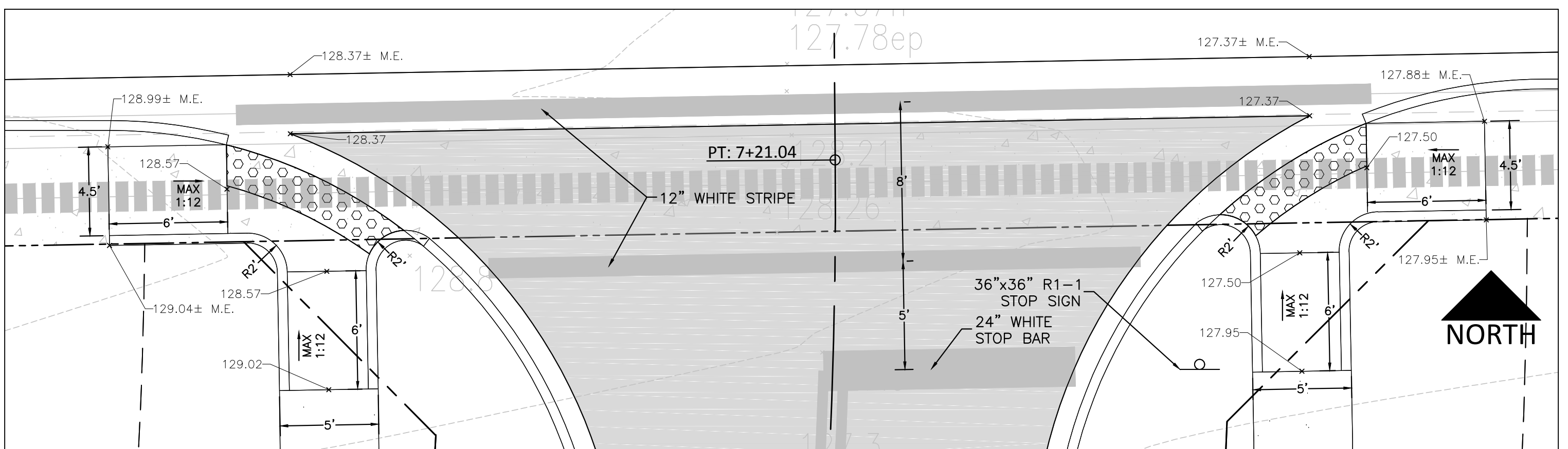
VIEW C  
1" = 5'



VIEW D  
1" = 5'



VIEW A  
1" = 5'



VIEW B  
1" = 10'

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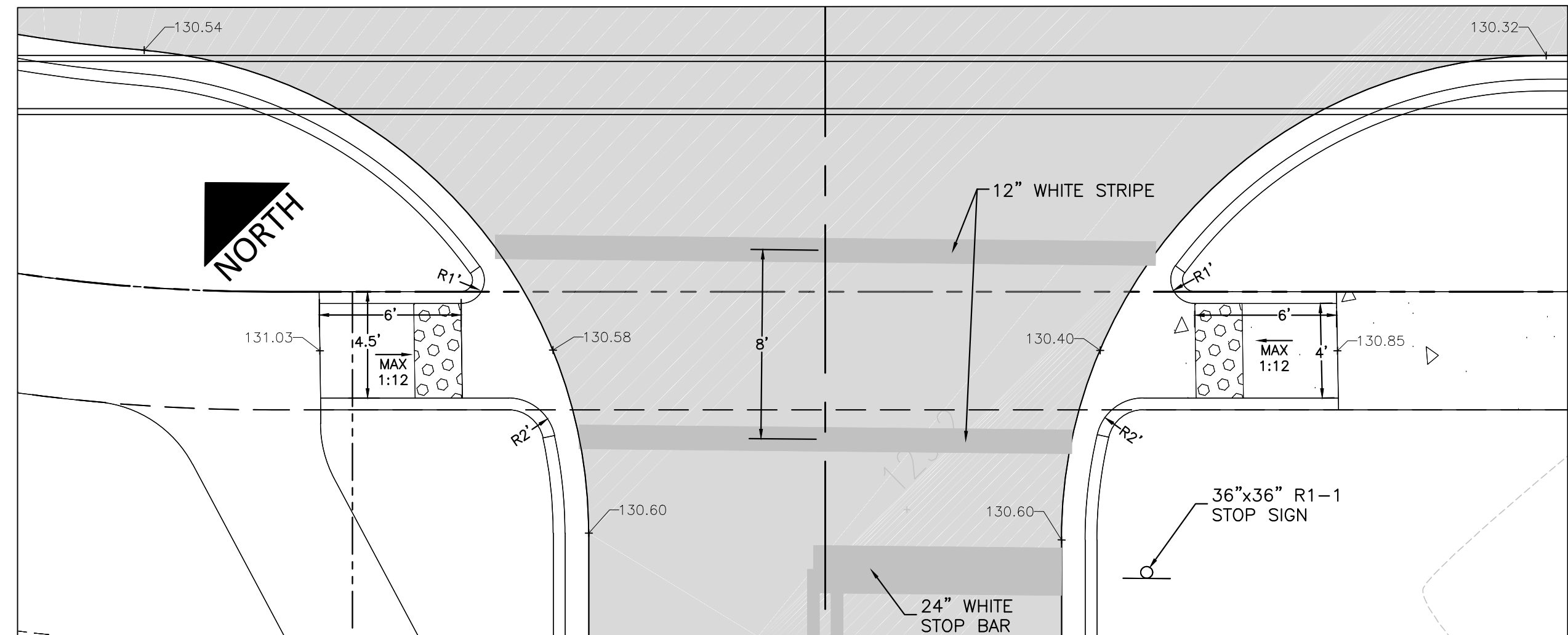
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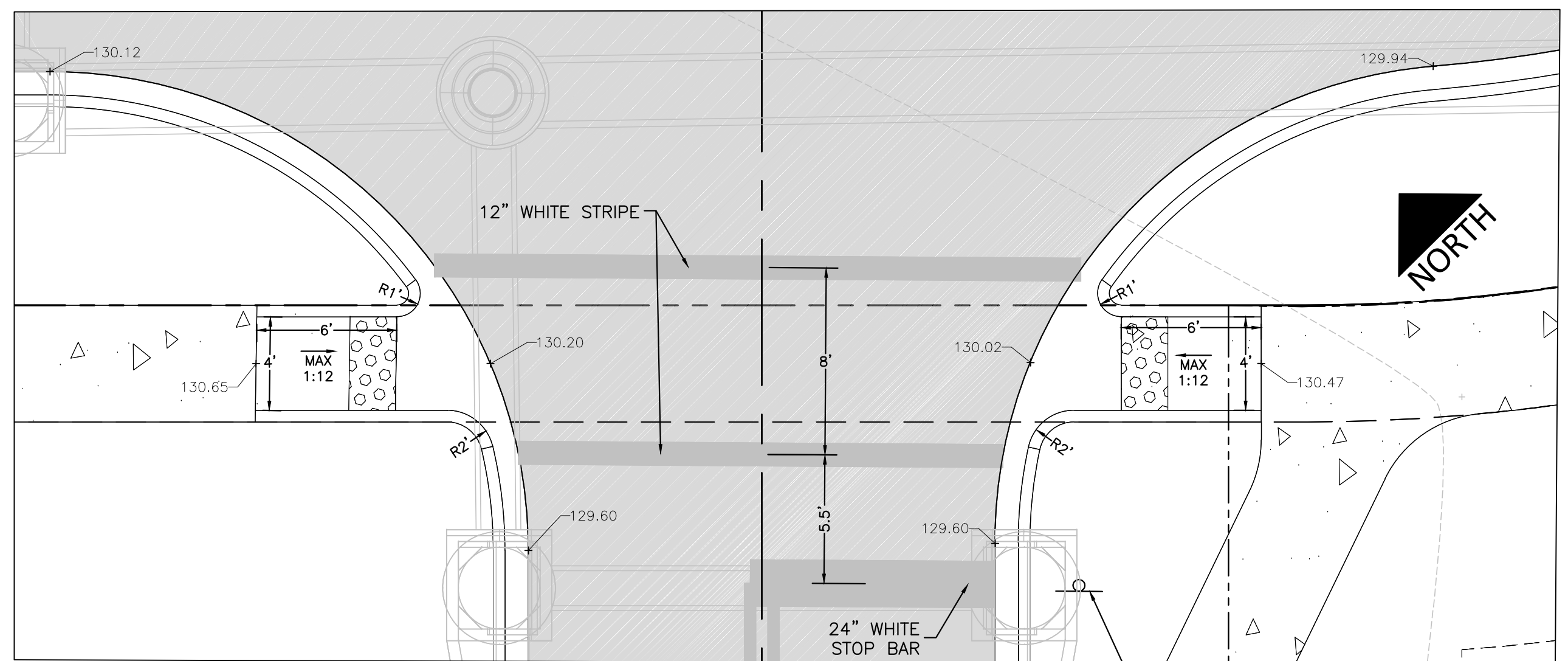
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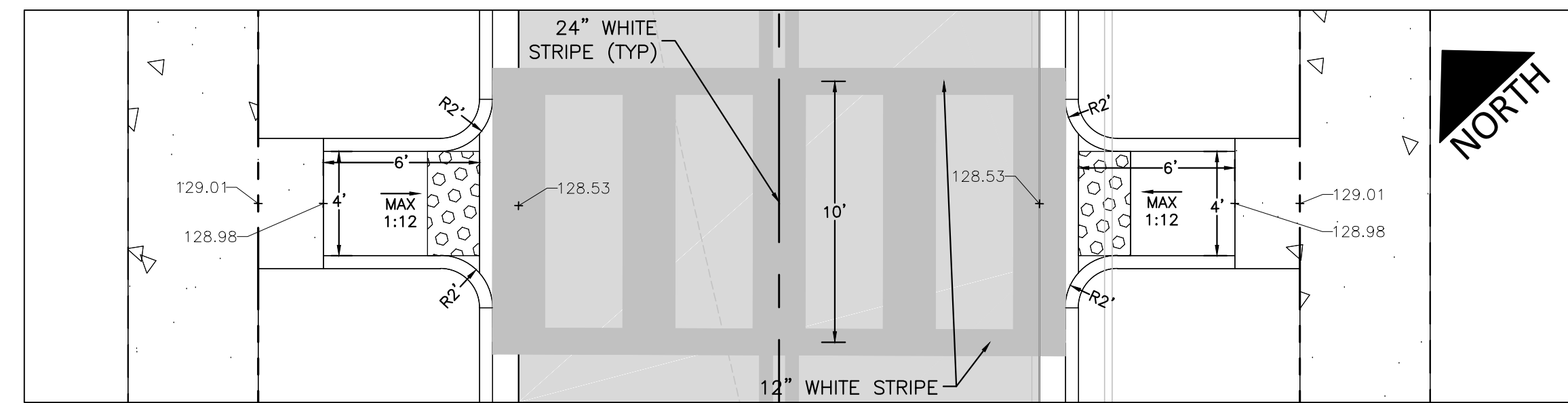
VIEW E  
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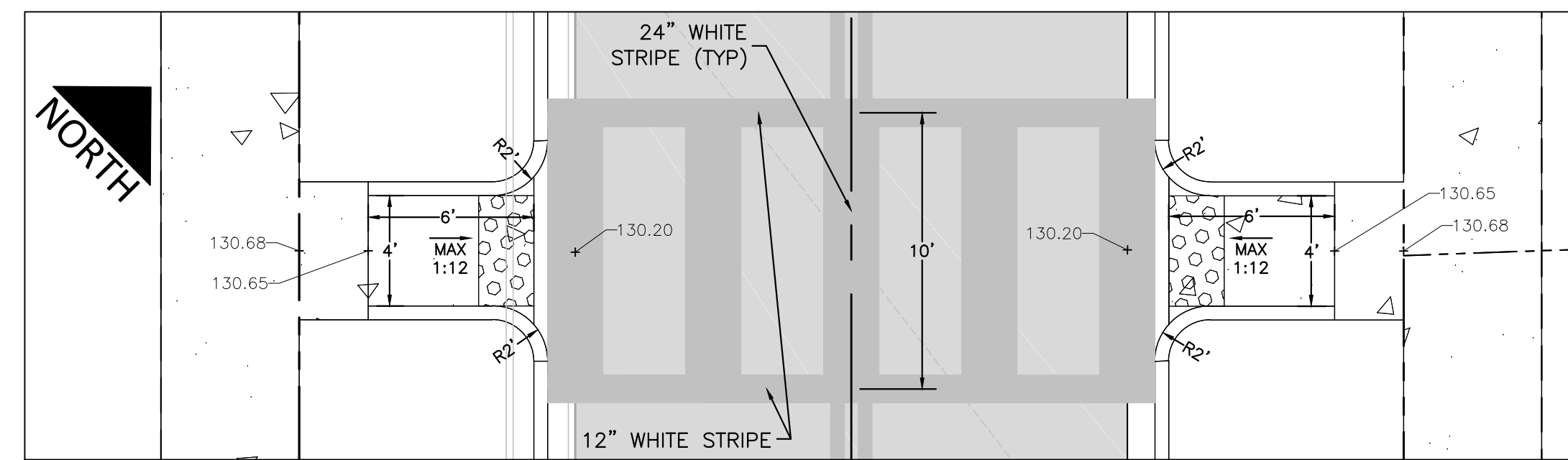
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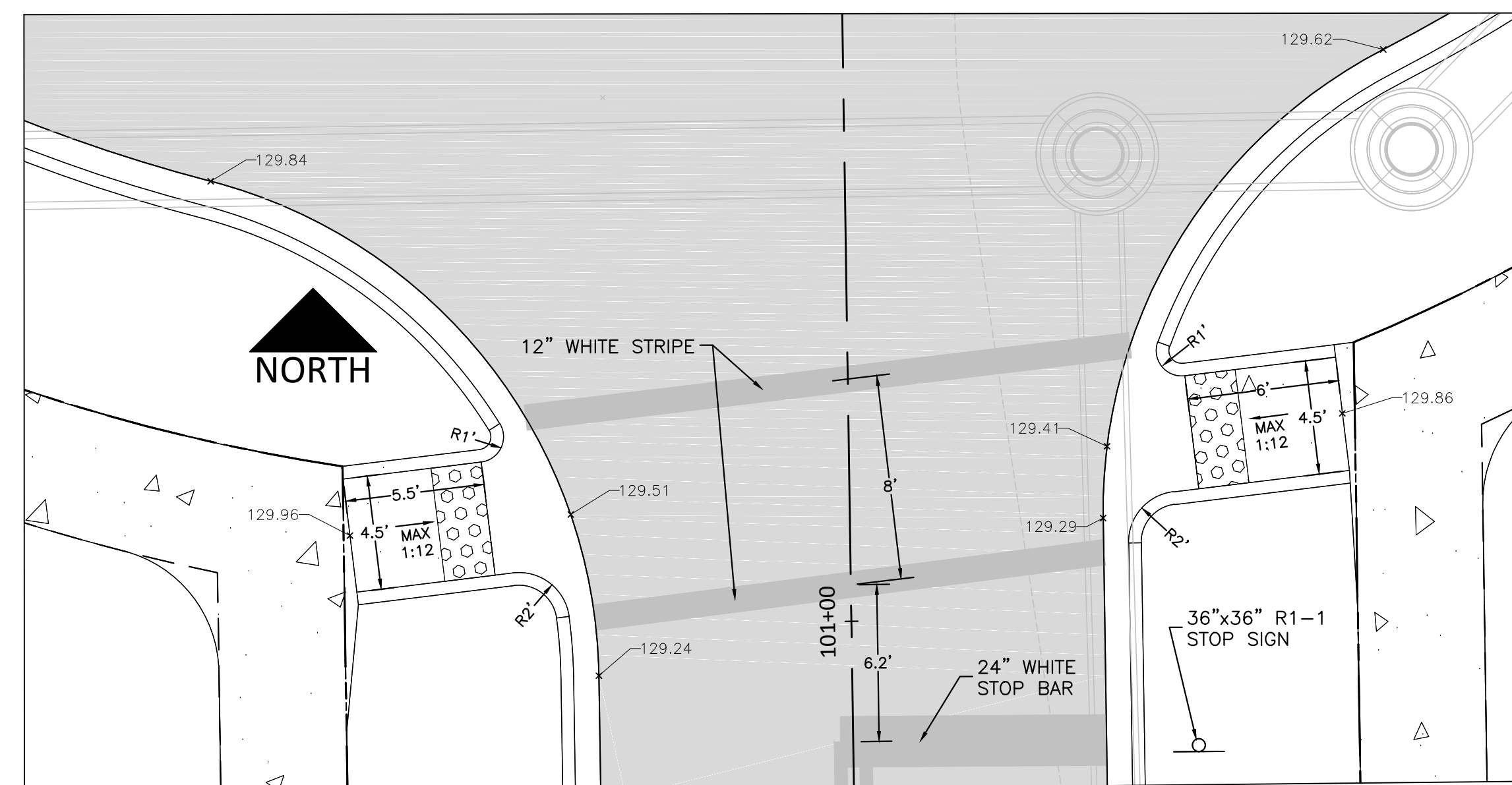
VIEW I  
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VIEW F  
1" = 5'



VIEW H  
1" = 5'



VIEW J  
1" = 5'

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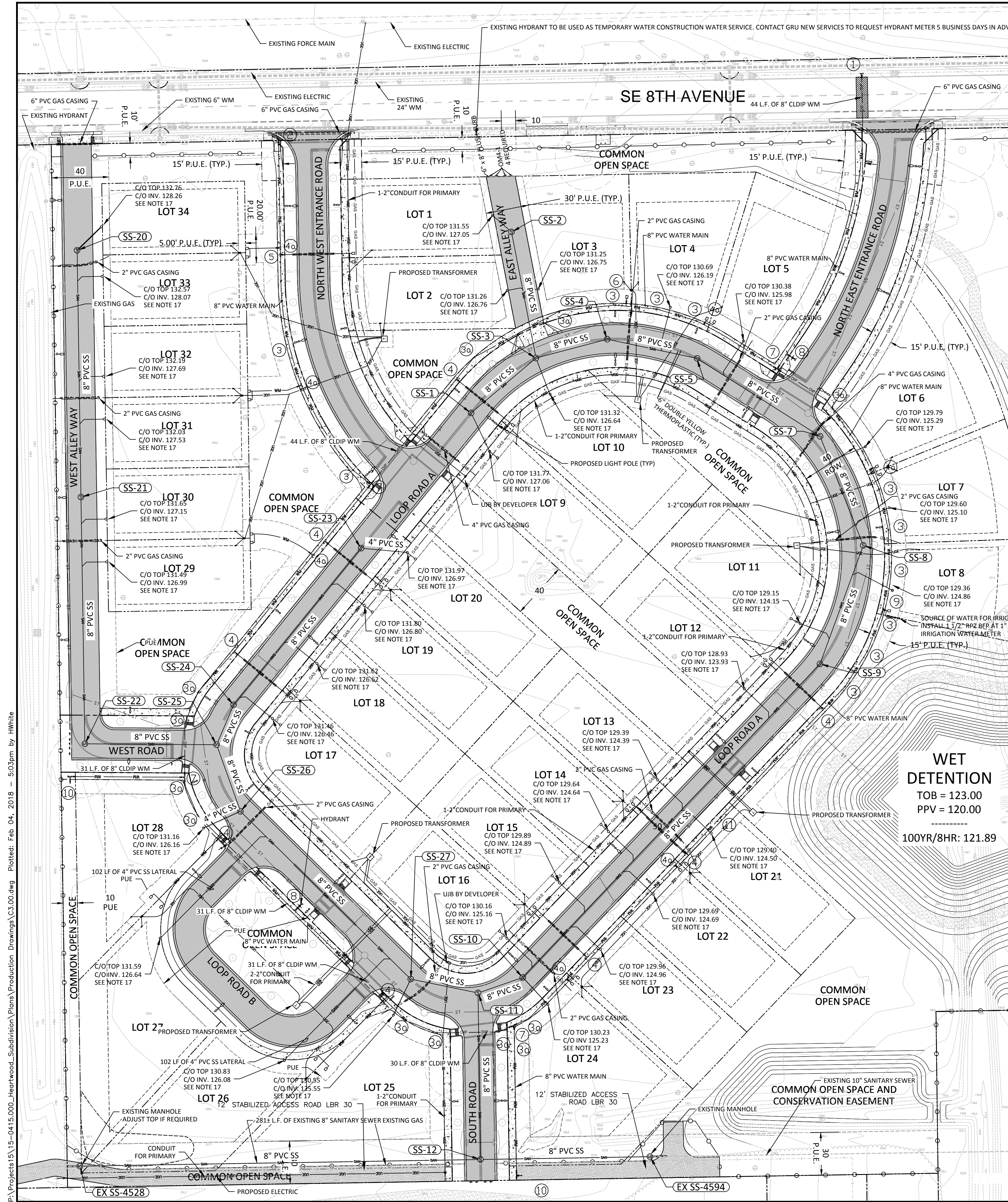
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**GRU GENERAL NOTES:**

- THE FOLLOWING PERMITS ARE REQUIRED: CITY.
- THE UTILITY PLAN AND PLAT SHOWS ALL PUBLIC UTILITY EASEMENTS (PUE'S) IN A METES AND BOUNDS FORMAT. UPON GRU'S APPROVAL OF PLANS FOR DEVELOPMENTS NOT BEING PLATTED, OWNER MAY CHOOSE TO GRANT THE METES AND BOUNDS EASEMENTS AS SHOWN, OR A BLANKET EASEMENT OVER THE ENTIRE PROPERTY, PROVIDED FACILITIES ARE INSTALLED WITHIN THE PRESCRIBED DISTANCES AS SHOWN ON THE UTILITY PLANS AND IN ACCORDANCE WITH THE UTILITY SEPARATION REQUIREMENTS TABLE IN APPENDIX C OF THE GRU W/W/R/CW DESIGN STANDARDS.
- ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS SHALL BE IN CONFORMANCE WITH GRU'S MOST RECENT POTABLE WATER, WASTEWATER AND RECLAIMED WATER SYSTEM DESIGN STANDARDS, AND APPROVED MATERIALS MANUAL.
- POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
- A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FOR POTABLE WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, AND 15 FEET FOR GRAVITY WASTEWATER MAINS SHALL BE PROVIDED AND MAINTAINED FROM TREES, BUILDINGS, TRANSFORMERS, AND ALL PERMANENT STRUCTURES. LIVE OAK TREES REQUIRE AN ADDITIONAL 5 FEET OF HORIZONTAL CLEARANCE. SERVICE LATERALS REQUIRE 5 FEET LESS CLEARANCE FOR EACH OF THE UTILITIES; NOTE THAT WATER SERVICE LATERALS SHALL BE INSTALLED WITHIN 3" SLEEVES. (SEE APPENDIX C, GRU STANDARDS - HORIZONTAL SEPARATION DISTANCES FOR PARALLEL AND PERPENDICULAR CLEARANCE FROM OTHER OBJECTS TABLE.)
- POTABLE WATER SERVICES, REQUIRING A SEPARATE WATER METER, SHALL BE PROVIDED TO EACH LOT, BUILDING OR PARCEL. EFFECTIVE OCTOBER 1, 2007, FOR COMMERCIAL, MULTIFAMILY, AND INSTITUTIONAL DEVELOPMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR INSTALLING POTABLE WATER SERVICES AND YOKES ASSEMBLY PACKAGE UP TO AND INCLUDING THE METER YOKE, BOX (INSTALLED AT FINAL GRADE) AND ASSOCIATED APPURTENANCES, FOR METERS 1" AND SMALLER (SEE GRU W/W/R/CW CONSTRUCTION DETAIL W-8.0), WITH A ONE-YEAR WARRANTY.
- 2" VALVES LOCATED IN PAVED AREAS, INCLUDING SIDEWALKS, SHALL BE GRU APPROVED CAST IRON, RESILIENT SEAT GATE VALVES WITH STANDARD 2" OPERATING NUT, THREADED WITH BRASS NIPPLE BETWEEN THE VALVES AND TAPPING SADDLE OR TAPPED TEE.
- WATER MAINS 4" IN DIAMETER AND GREATER, PLACED UNDER ROADWAYS, SHALL BE CEMENT LINED DUCTILE IRON PIPE (CLDIP) EXTENDING 5 FEET PAST THE BACK OF CURB (3 FEET WITHIN CITY OF GAINESVILLE LIMITS). TRACER WIRE INSTALLED ON PVC WATER MAINS SHALL CONTINUE ACROSS THE CLDIP SECTIONS.
- 1" AND 2" WATER SERVICE CROSSINGS LOCATED UNDER ROADWAYS SHALL BE ENCASED IN 3" SCH 40 PVC EXTENDING 5' PAST THE BACK OF CURB (3 FEET INSIDE CITY OF GAINESVILLE LIMITS).
- ANCHORING TEES, COUPLINGS, AND BENDS SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.
- ALL PRESSURIZED MAIN FITTINGS SHALL BE MECHANICAL JOINT WITH RESTRAINED JOINT GLANDS; A SUFFICIENT LENGTH OF THE PIPE CONNECTED TO THE FITTINGS SHALL BE MECHANICALLY RESTRAINED TO PROVIDE REACTION AS SPECIFIED ON THE RESTRAINED JOINT STANDARD IN THE CONSTRUCTION DETAILS OF THE GRU STANDARDS (W-2.8 & 2.9, RCW-2.8 & 2.9, AND WW-2.4 & 2.5). CALCULATIONS FOR REQUIRED RESTRAINT LENGTH MUST BE PROVIDED IF THE SPECIFIED RESTRAINT LENGTH, DUE TO SOIL TYPE OR DEPTH OF COVER, DIFFERS FROM THOSE PROVIDED ON THESE DETAILS.
- ALL SANITARY WASTEWATER SERVICE LATERALS SHALL BE MIN. 4" DIAMETER PVC (SDR 35) AT 1.00% MIN. SLOPE UNLESS OTHERWISE LABELED.
- WASTEWATER CLEANOUT COVERS LOCATED WITHIN PAVEMENT AND SIDEWALKS ADJACENT TO PAVED AREAS SHALL BE RATED FOR TRAFFIC LOAD BEARING. WASTEWATER CLEANOUT COVERS IN OTHER SIDEWALKS/WALKWAYS SHALL BE BRASS WITH A SQUARE RECESS.
- MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RIM ELEVATION AT LEAST 6" ABOVE FINISHED GRADE, AND A 10:1 SLOPE TO FINISHED GRADE.
- UNLESS OTHERWISE NOTED ON THE PLANS, THE FINISHED FLOOR ELEVATIONS OF BUILDINGS SHALL BE A MINIMUM OF 6" ABOVE THE LOWEST UPSTREAM MANHOLE TOP. IF THIS IS INFEASIBLE, A WASTEWATER SERVICE LATERAL BACKWATER VALVE (BWV) IS REQUIRED ON THE CUSTOMER SIDE OF THE CLEANOUT.
- WHEN A POTABLE OR RECLAIMED WATER MAIN, OR A WASTEWATER FORCE MAIN IS ROUTED WITHIN 10 FT. OF AN ELECTRIC TRANSFORMER, A 20 FT. LENGTH OF DIP SHALL BE CENTERED ON THE TRANSFORMER WITH MECHANICAL RESTRAINT AT EACH END. NO FITTINGS OR VALVES SHALL OCCUR WITHIN 10 FT. OF THE NEAREST EDGE OF THE TRANSFORMER. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED BETWEEN THE MAIN AND THE TRANSFORMER.
- ALL CLEANOUT COVERS SHALL BE TRAFFIC LOAD BEARING WITH CONCRETE COLLARS PER GRU DETAIL WW-5.3. END GRU MAINTENANCE.
- CONTRACTOR TO FURNISH AND INSTALL GAS CASINGS. CONTACT MIKE BROWN 48 HOURS PRIOR TO CASINGS.
- CONTACT GRU MIKE BROWN AT (352)393-1466, 7 DAYS PRIOR TO THE INSTALLATION OF GAS MAINS AND SERVICES. COORDINATE WITH GRU GAS PRIOR TO INSTALLING CONCRETE OR ASPHALT OVER THE PROPOSED GAS LINES.

**GRU ELECTRIC NOTES:**

- GRU UNDERGROUND FACILITIES NEED TO BE INSPECTED BY EUGENE GREEN. HIS CONTACT INFORMATION IS 352-339-0340.
- MAINTAIN 10' OF SEPARATION BETWEEN PROPOSED TREES AND UNDERGROUND FACILITIES.

**PHASE 1 POTABLE WATER AND SANITARY SEWER DEMAND:**  
 AVG. DAILY FLOW = 350 GPD/UNIT X 12 UNITS = 4200 GPD  
 PEAK FLOW = 4200 GPD X 2.5 PEAK FACTOR X 1/2 HOURS X 1/20 MIN = 14.6 GPM

**FIRE FLOW REQUIREMENTS:**  
 ISO NEEDED FIRE FLOW = 1500 GPM PER "GUIDE FOR DETERMINATION OF NEEDED FIRE FLOW - CHAPTER 7"

**NFPA 1 FIRE FLOW REQUIREMENTS - 1000 GPM PER "NFPA 1 - CHAPTER 18.4.5.1.1"**

Water Fitting Schedule	
①	COORDINATE W/ GRU WATER INSPECTOR 7 DAYS IN ADVANCE 1- EXISTING 24" DI WATER MAIN (EAST-WEST) TO REMAIN 1- 24" x 8" WET TAP AND VALVE BY GRU CONTRACTOR TO CONNECT M.O.T., EXCAVATION, BACKFILL AND RESTORATION BY CONTRACTOR
②	COORDINATE W/ GRU WATER INSPECTOR 7 DAYS IN ADVANCE 1- EXISTING 6" PVC WATER MAIN (EAST-WEST) TO REMAIN CONTRACTOR TO CONNECT M.O.T., EXCAVATION, BACKFILL AND RESTORATION BY CONTRACTOR 1- 6" x 6" WET TAP AND VALVE BY GRU 1- 6" CLDI FOSTER ADAPTER 1- 6" x 8" CLDI REDUCER
③	1- 8" CLDI 11.25" BEND
③a	1- 8" CLDI 22.5" BEND
④	1- 8" x 2" SADDLE (PER GRU DETAIL W-7.1) 1- 2" x 6" LONG LOW-LEAD BRASS NIPPLE 1- 2" GATE VALVE AND BOX 1- 2" BRASS PACK JOINT COUPLING FOR PVC 2" PVC SCH 40 PIPE IN 3" SCH 40 SLEEVE 2- 3/4" POTABLE WATER METER PER GRU DETAIL W-8.1
④a	1- 8" x 2" SADDLE (PER GRU DETAIL W-7.1) 1- 2" x 6" LONG LOW-LEAD BRASS NIPPLE 1- 2" GATE VALVE AND BOX 1- 2" BRASS PACK JOINT COUPLING FOR PVC 2" PVC SCH 40 PIPE IN 3" SCH 40 SLEEVE 2- 2" PVC BLOW OFF ASSEMBLY AND SAMPLE POINT (PER GRU DETAIL W-3.4)
⑤	1- 8" x 2" SADDLE (PER GRU DETAIL W-7.1) 1- 2" x 6" LONG LOW-LEAD BRASS NIPPLE 1- 2" GATE VALVE AND BOX 1- 2" BRASS PACK JOINT COUPLING FOR PVC 2" PVC SCH 40 PIPE IN 3" SCH 40 SLEEVE 2- 2" PVC BLOW OFF ASSEMBLY AND SAMPLE POINT (PER GRU DETAIL W-3.4)
⑥	1- 8" x 1" SADDLE AND CORPORATION STOP (PER GRU DETAIL W-7.0) 1" PE TUBING 1- 3/4" POTABLE WATER METER
⑦	1- 8" x 8" x 8" CLDI ANCHOR TEE MECHANICALLY RESTRAINED 3- 8" GATE VALVE AND BOX
⑧	1- 8" x 6" CLDI ANCHOR TEE MECHANICALLY RESTRAINED 1- 6" GATE VALVE AND BOX 1- 6" CLDI ANCHOR COUPLING (SWIVEL x SOLID) 1- FIRE HYDRANT ASSEMBLY
⑨	SOURCE OF WATER FOR IRRIGATION 1- 8" x 2" SADDLE (PER GRU DETAIL W-7.1) 1- 2" x 6" LONG LOW-LEAD BRASS NIPPLE 1- 2" GATE VALVE AND BOX 1- 2" BRASS PACK JOINT COUPLING FOR PVC 1- 8" WATER METER 1- 1 1/2" RPZ BFP 1- 1" IRRIGATION WATER METER
⑩	1- 8" GATE VALVE AND BOX 1- 8" CLDI FOSTER ADAPTER 1- BLOW OFF ASSEMBLY AND SAMPLE POINT (PER GRU DETAIL W-3.7) 1- 8" CLDI PLUG
⑪	1- 8" GATE VALVE AND BOX

SANITARY SEWER STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	TOP	INVERT ELEV.	NORTHING & EASTING
EX SS-4528	EXISTING MANHOLE	RIM = 134.72	121.03 (8")E 121.03 (8")W	N:240373.92 E:2665933.37
EX SS-4594	EXISTING MANHOLE	RIM = 131.82	118.65 (8")E 118.65 (8")E	N:240380.53 E:2666332.74
SS-1	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 131.25	124.58 (8")NE 126.50 (4")SE	N:240901.52 E:2666207.43
SS-2	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 131.24	126.40 (8")S 126.70 (4")NW	N:241028.32 E:2666235.74
SS-3	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 130.85	124.29 (8")E 124.39 (8")SW 126.00 (4")S	N:240940.04 E:2666252.88
SS-4	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 130.51	124.03 (8")W 123.93 (8")E	N:240953.22 E:2666302.79
SS-5	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 130.08	123.56 (8")W 123.46 (8")SE	N:240939.77 E:2666365.78
SS-7	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 129.35	123.69 (8")S 122.79 (8")NW	N:240885.17 E:2666451.90
SS-8	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 128.95	122.25 (8")S 122.35 (8")E	N:240808.74 E:2666482.14
SS-9	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 128.62	121.84 (8")N 121.74 (8")SW	N:240725.74 E:2666451.84
SS-10	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 129.78	120.20 (8")W 120.30 (8")NE 122.00 (4")SE	N:240506.08 E:2666243.68
SS-11	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 129.86	120.03 (8")E 119.93 (8")S 120.48 (8")W	N:240495.22 E:2666212.29
SS-12	DOGHOUSE MANHOLE	RIM = 128.21	119.35 (8")N 119.15 (8")E 119.25 (8")W	N:240378.57 E:2666214.06
SS-20	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 132.31	127.00 (8")S 127.50 (4")NE	N:241015.46 E:2665931.47
SS-21	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 131.40	126.07 (8")N 125.97 (8")S	N:240842.62 E:2665934.18
SS-22	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 130.70	125.00 (8")N 124.90 (8")E	N:240669.79 E:2665936.89
SS-23	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 131.48	124.75 (8")SW 125.05 (4")E	N:240806.80 E:2666130.36
SS-24	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 130.99	123.62 (8")NE 123.42 (8")SW	N:240697.07 E:2666041.08
SS-25	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 130.89	124.50 (8")W 123.09 (8")S 123.19 (8")NE	N:240669.18 E:2666029.17
SS-26	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 130.71	122.61 (8")N 122.41 (8")E 122.91 (4")SW	N:240622.49 E:2666045.84
SS-27	ECCENTRIC CYLINDRICAL MANHOLE	RIM = 130.14	121.07 (8")NW 120.87 (8")E 121.37 (4")SW	N:240504.90 E:2666165.16

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DAVID C. SOWELL, P.E.  
 FLORIDA P.E. NO.: 68531

PROJECT NO.: 15-0415.000

SCALE: 1" = 40'

DATE: FEBRUARY 1, 2018

DRAWING: C3.00

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
DS	JW	DS	CT

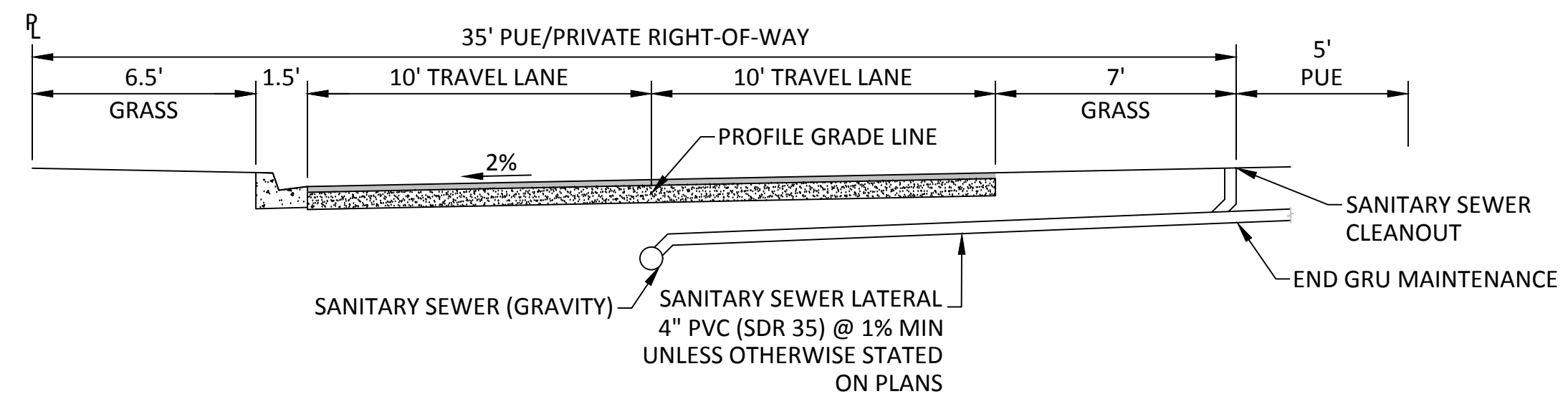




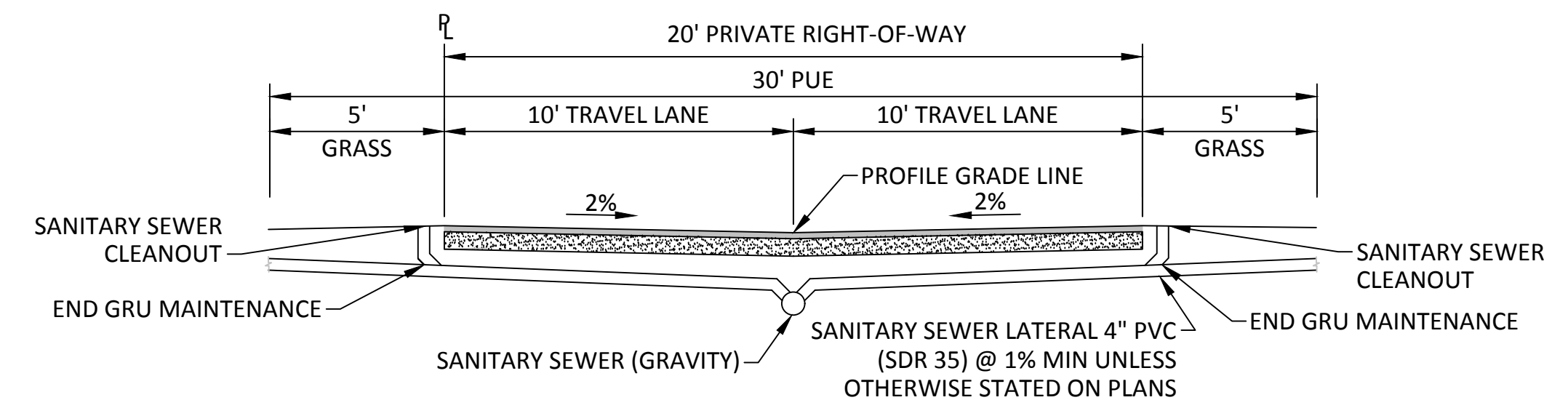




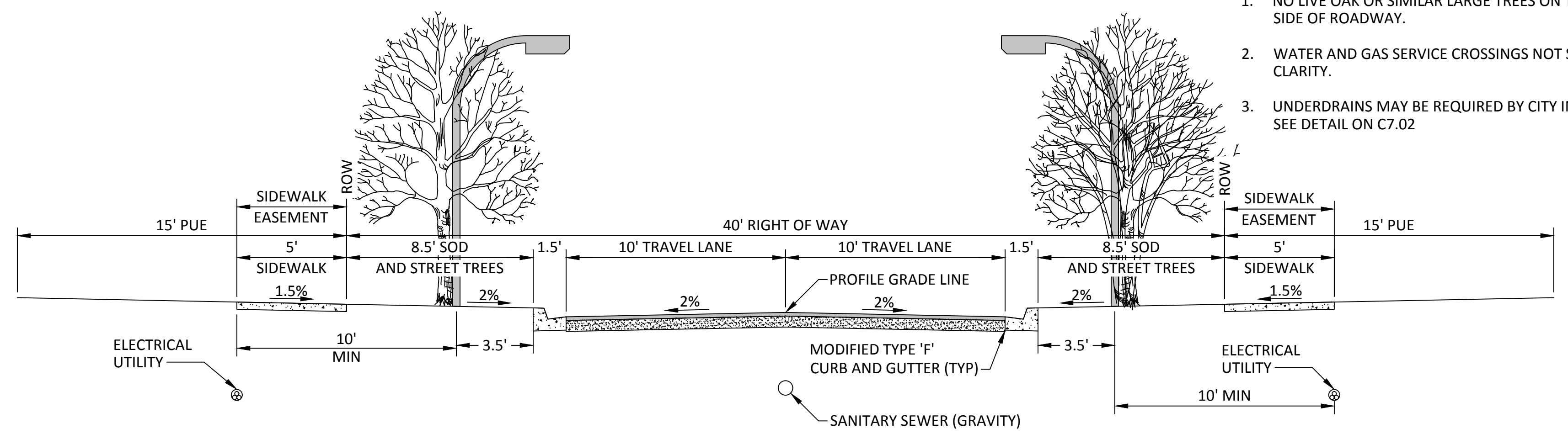




**WEST ALLEYWAY (PRIVATE) TYPICAL ROADWAY CROSS SECTION**  
SCALE: 1" = 4"

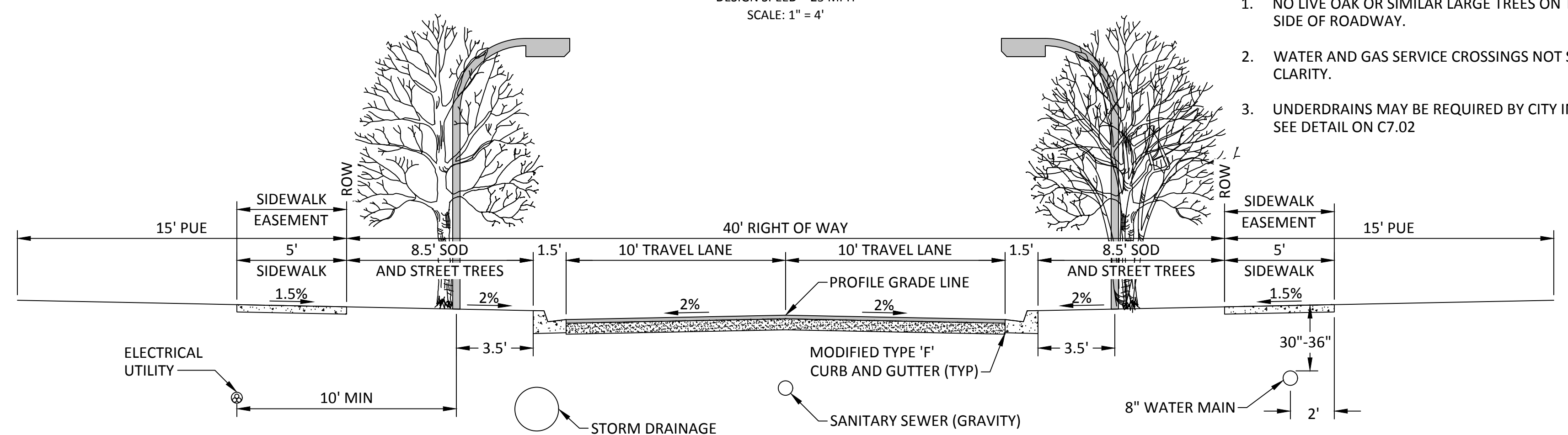


**EAST ALLEYWAY (PRIVATE) TYPICAL ROADWAY CROSS SECTION**  
SCALE: 1" = 4"



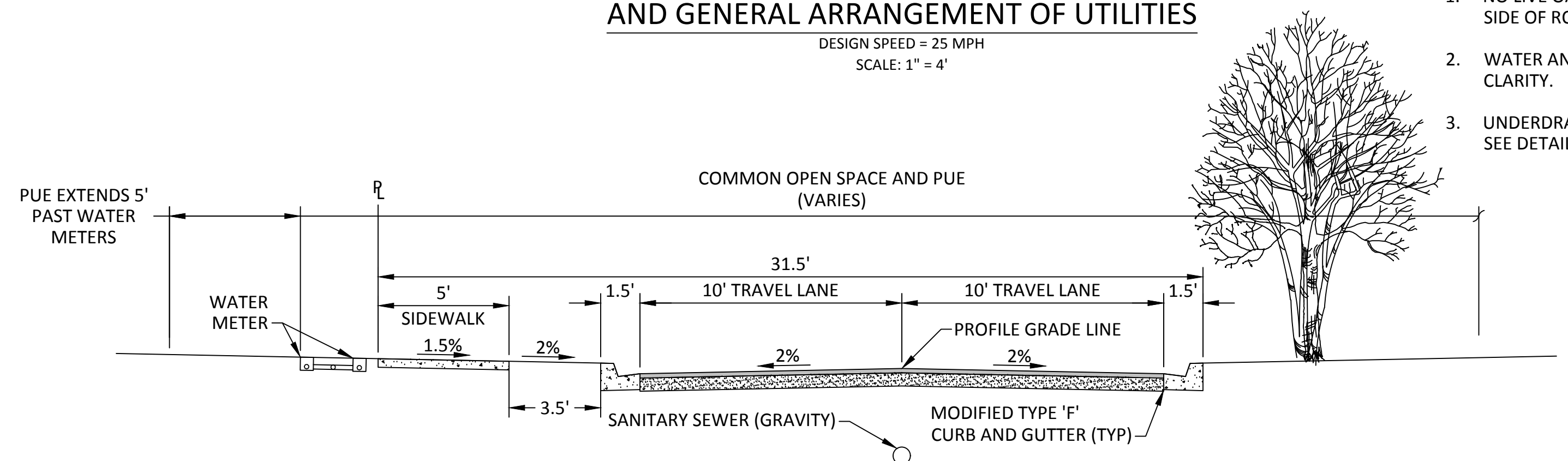
**SOUTH ROAD TYPICAL ROADWAY CROSS SECTION AND GENERAL ARRANGEMENT OF UTILITIES**  
DESIGN SPEED = 25 MPH  
SCALE: 1" = 4"

- NOTE:**
1. NO LIVE OAK OR SIMILAR LARGE TREES ON THE ELECTRIC SIDE OF ROADWAY.
  2. WATER AND GAS SERVICE CROSSINGS NOT SHOWN FOR CLARITY.
  3. UNDERDRAINS MAY BE REQUIRED BY CITY INSPECTOR SEE DETAIL ON C7.02



**WEST ROAD TYPICAL ROADWAY CROSS SECTION AND GENERAL ARRANGEMENT OF UTILITIES**  
DESIGN SPEED = 25 MPH  
SCALE: 1" = 4"

- NOTE:**
1. NO LIVE OAK OR SIMILAR LARGE TREES ON THE ELECTRIC SIDE OF ROADWAY.
  2. WATER AND GAS SERVICE CROSSINGS NOT SHOWN FOR CLARITY.
  3. UNDERDRAINS MAY BE REQUIRED BY CITY INSPECTOR SEE DETAIL ON C7.02



**LOOP ROAD B (PRIVATE) TYPICAL ROADWAY CROSS SECTION AND GENERAL ARRANGEMENT OF UTILITIES**  
DESIGN SPEED = 25 MPH  
SCALE: 1" = 4"

- NOTE:**
1. NO LIVE OAK OR SIMILAR LARGE TREES ON THE ELECTRIC SIDE OF ROADWAY.
  2. WATER AND GAS SERVICE CROSSINGS NOT SHOWN FOR CLARITY.
  3. UNDERDRAINS MAY BE REQUIRED BY CITY INSPECTOR SEE DETAIL ON C7.02

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**TYPICAL ROADWAY AND UTILITY SECTIONS**

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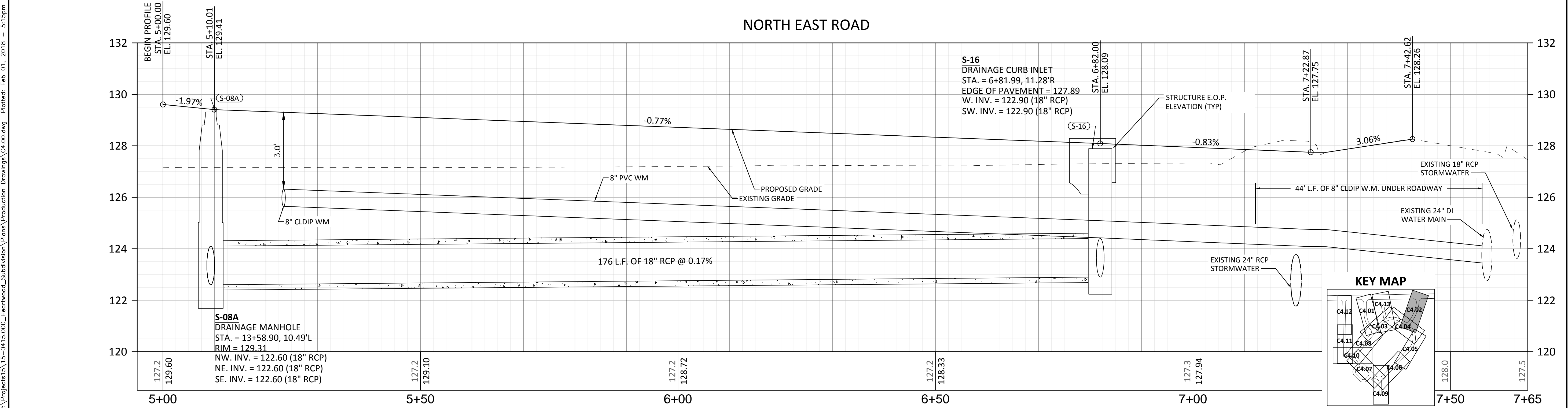
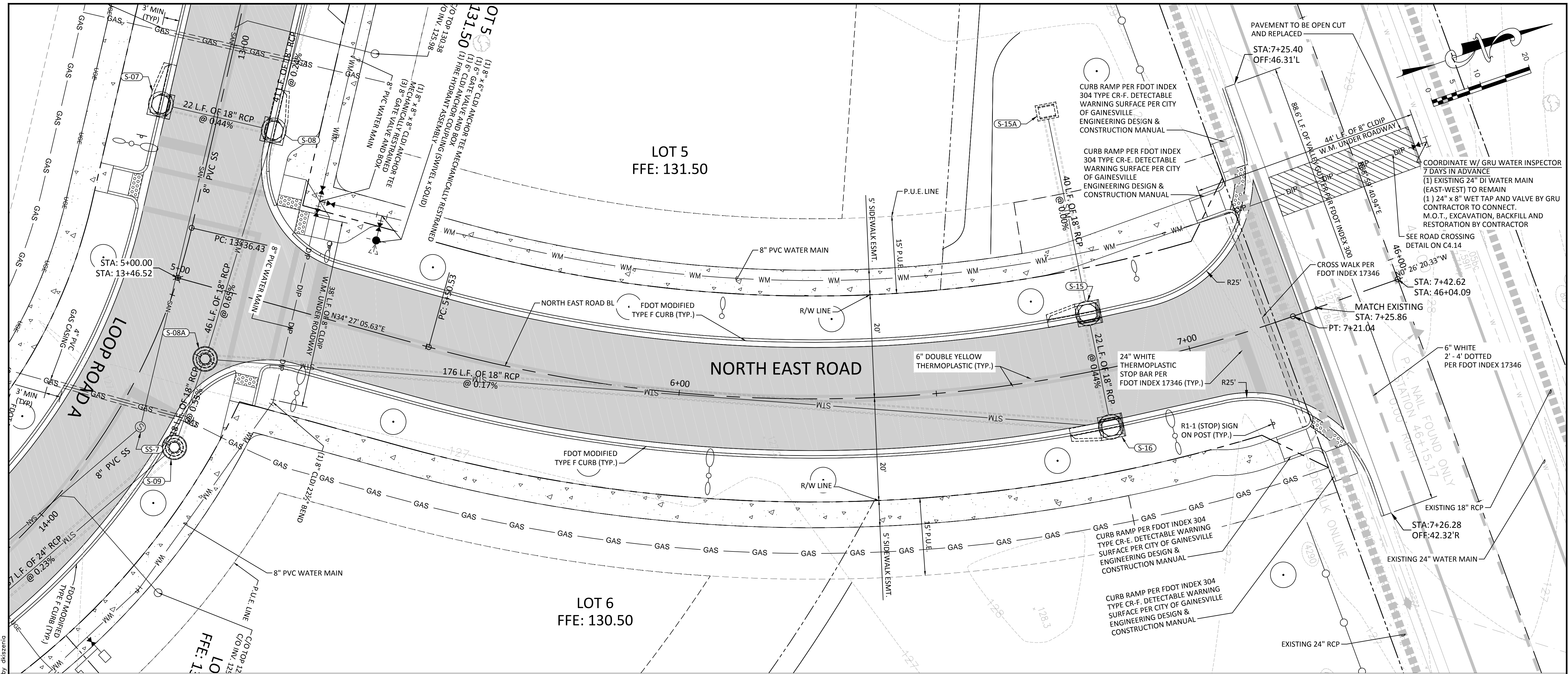
DAVID C. SOWELL, P.E. FLORIDA P.E. NO.: 68531
PROJECT NO.: 15-0415.000
SCALE: AS SHOWN
DATE: FEBRUARY 1, 2018
DRAWING: C3.11

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**NORTH EAST ROAD PLAN AND PROFILE**

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PROJECT NO.:  
**15-0415.000**

SCALE: H: 1" = 10'  
V: 1" = 2' (5x)

DATE:  
**FEBRUARY 1, 2018**

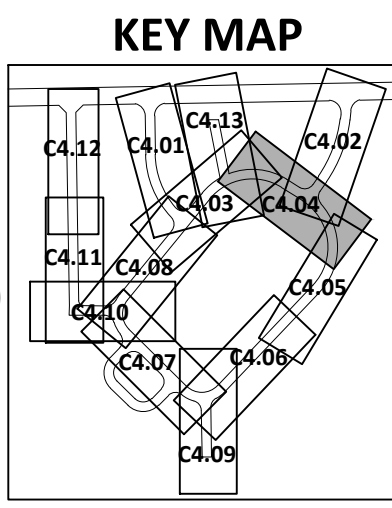
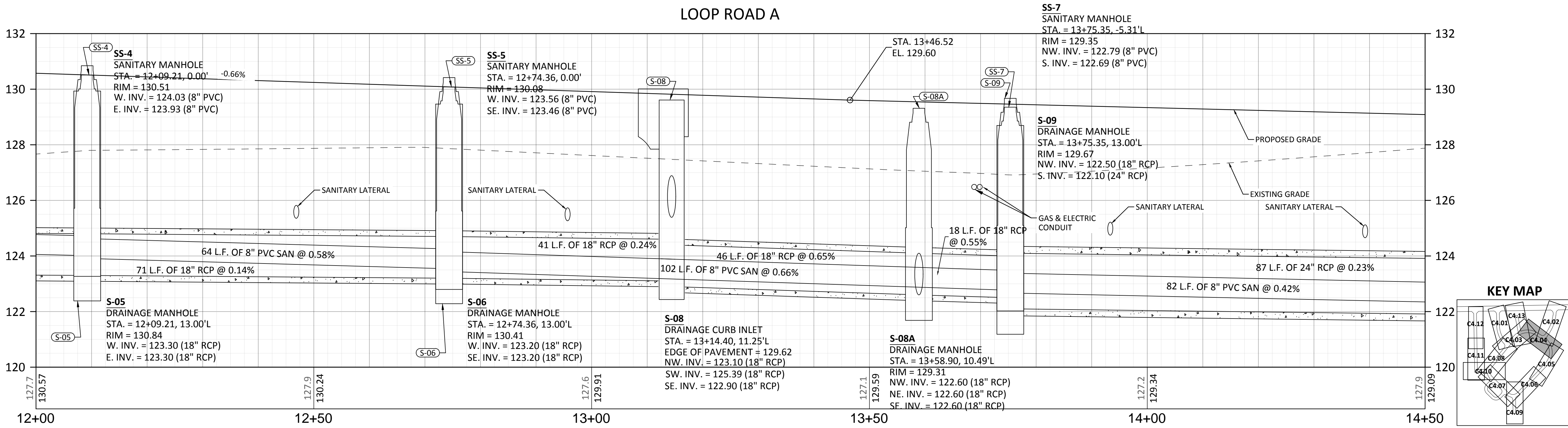
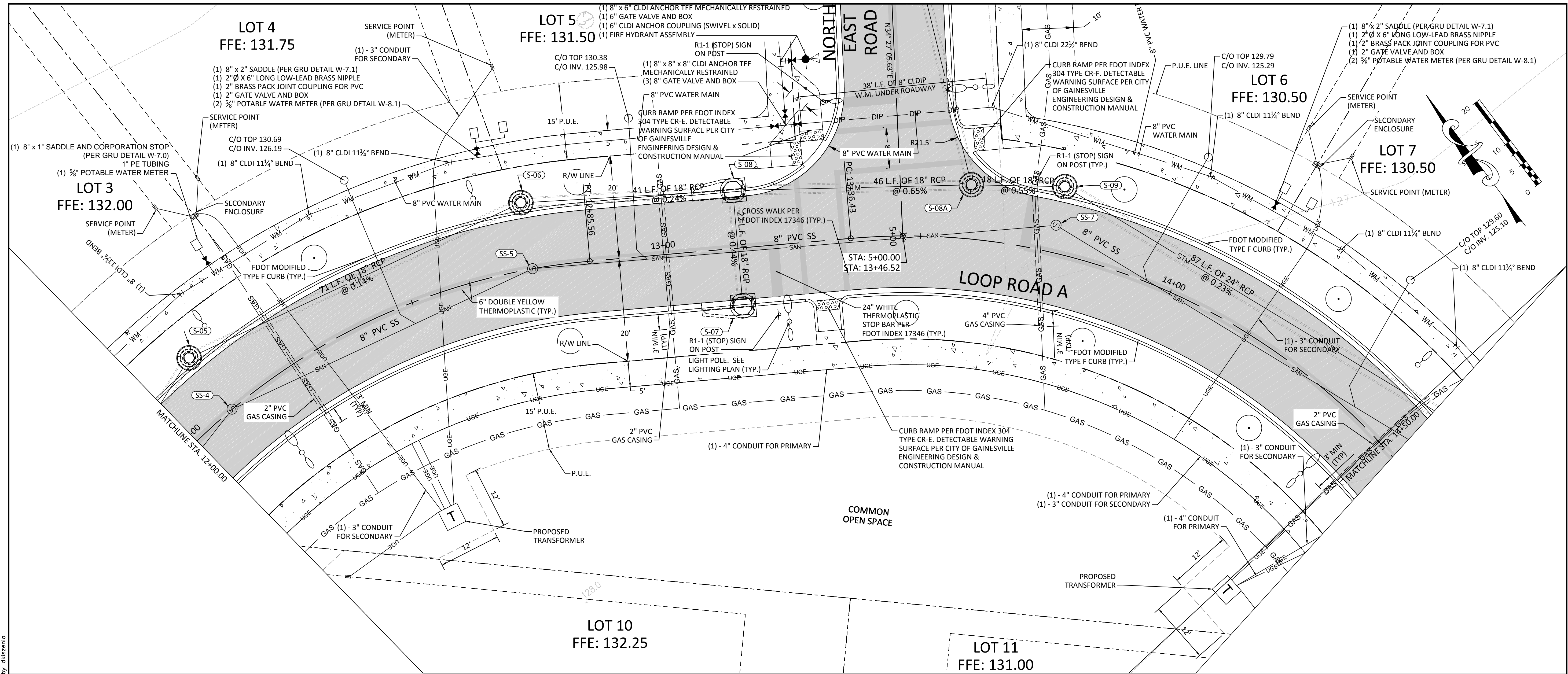
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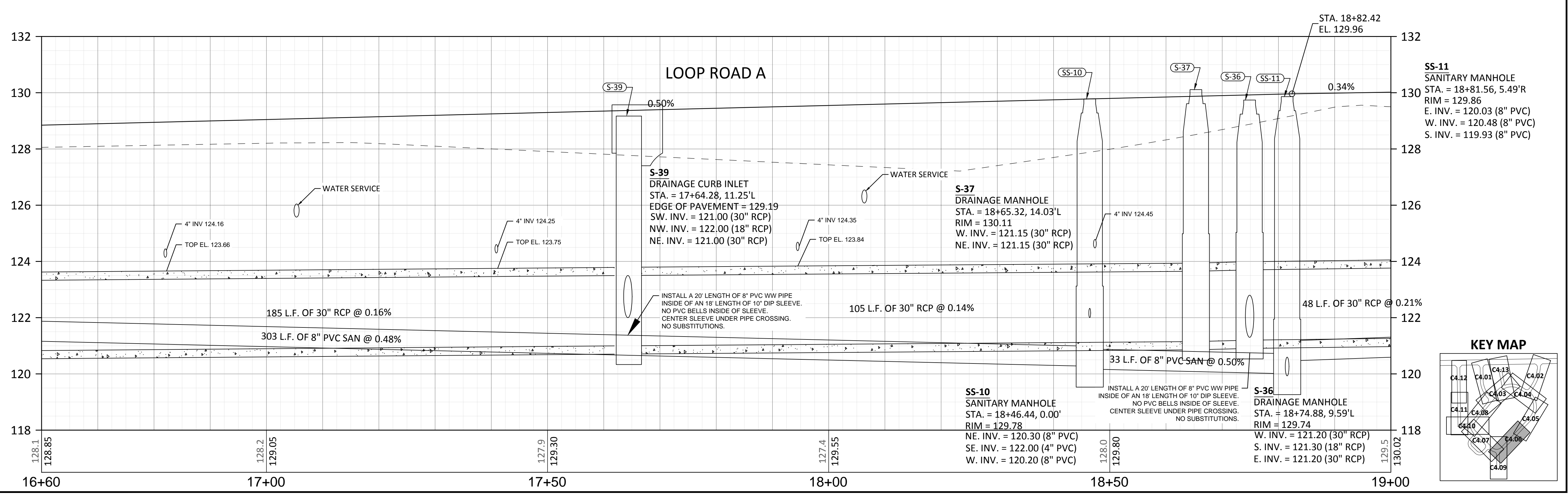
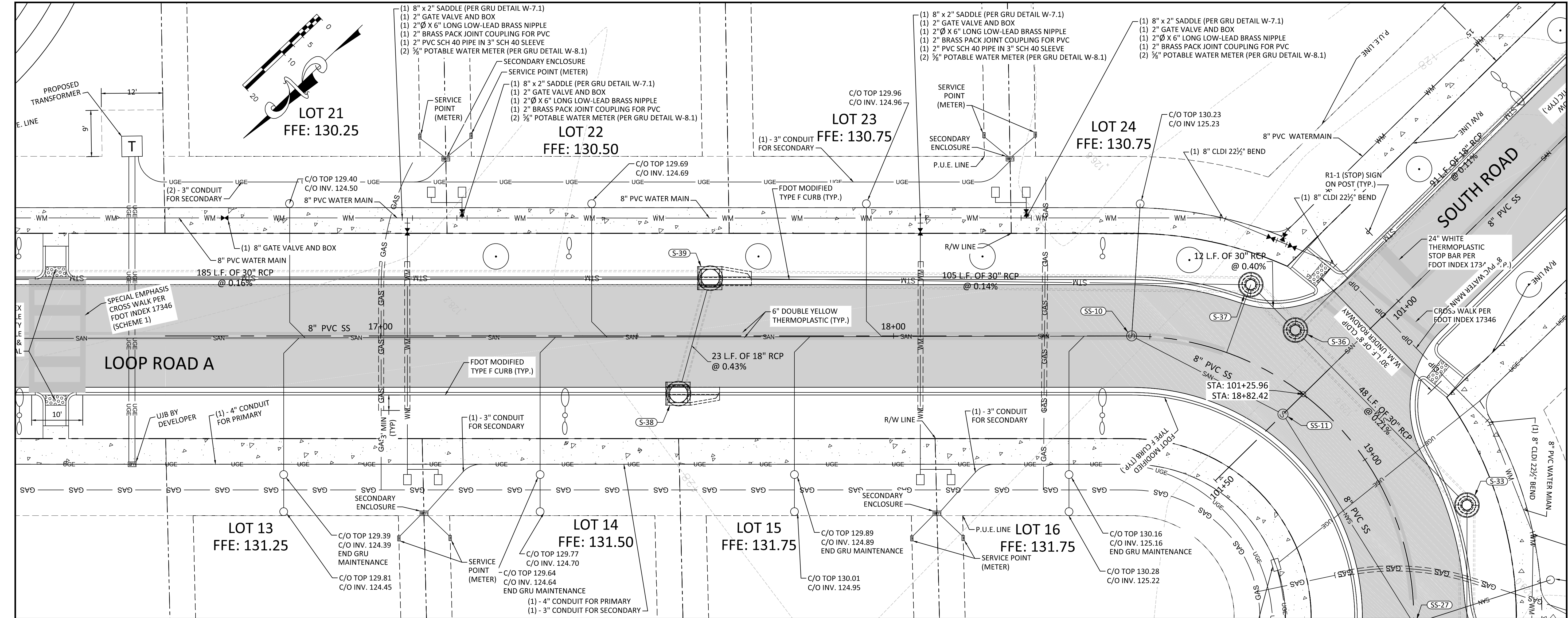
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DATE							
NO.							
DESCRIPTION							
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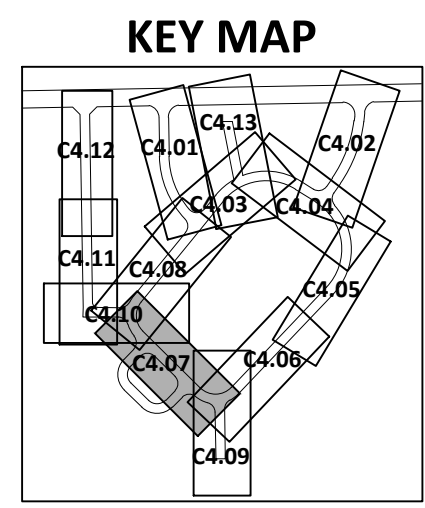
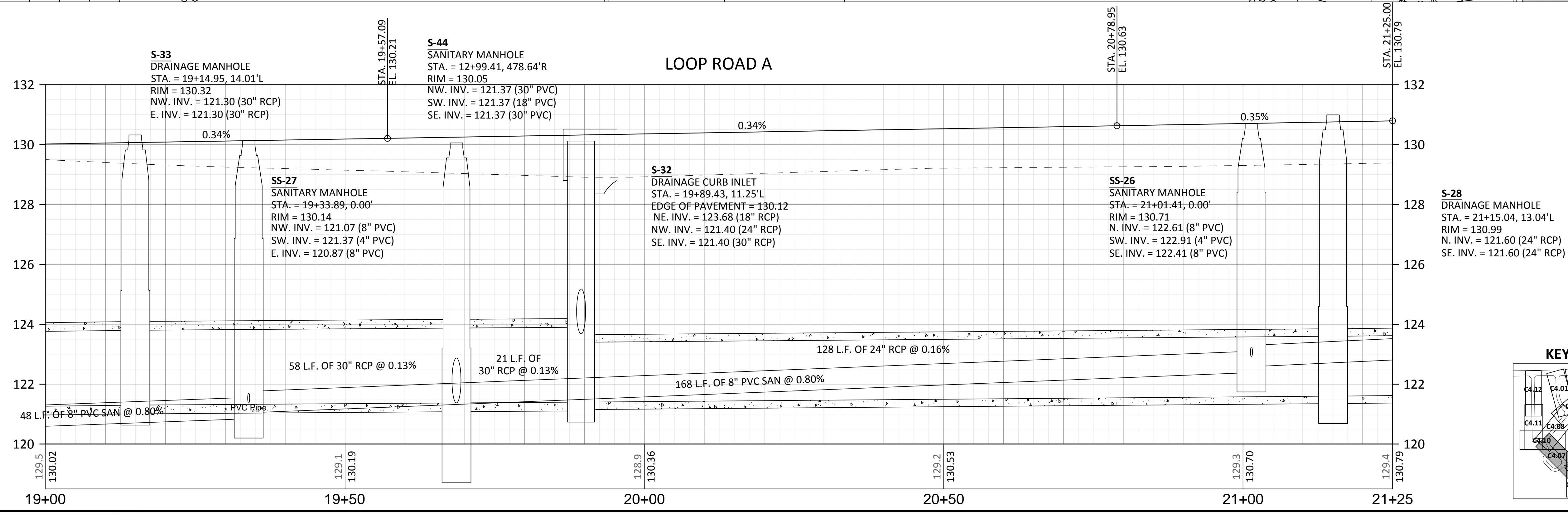
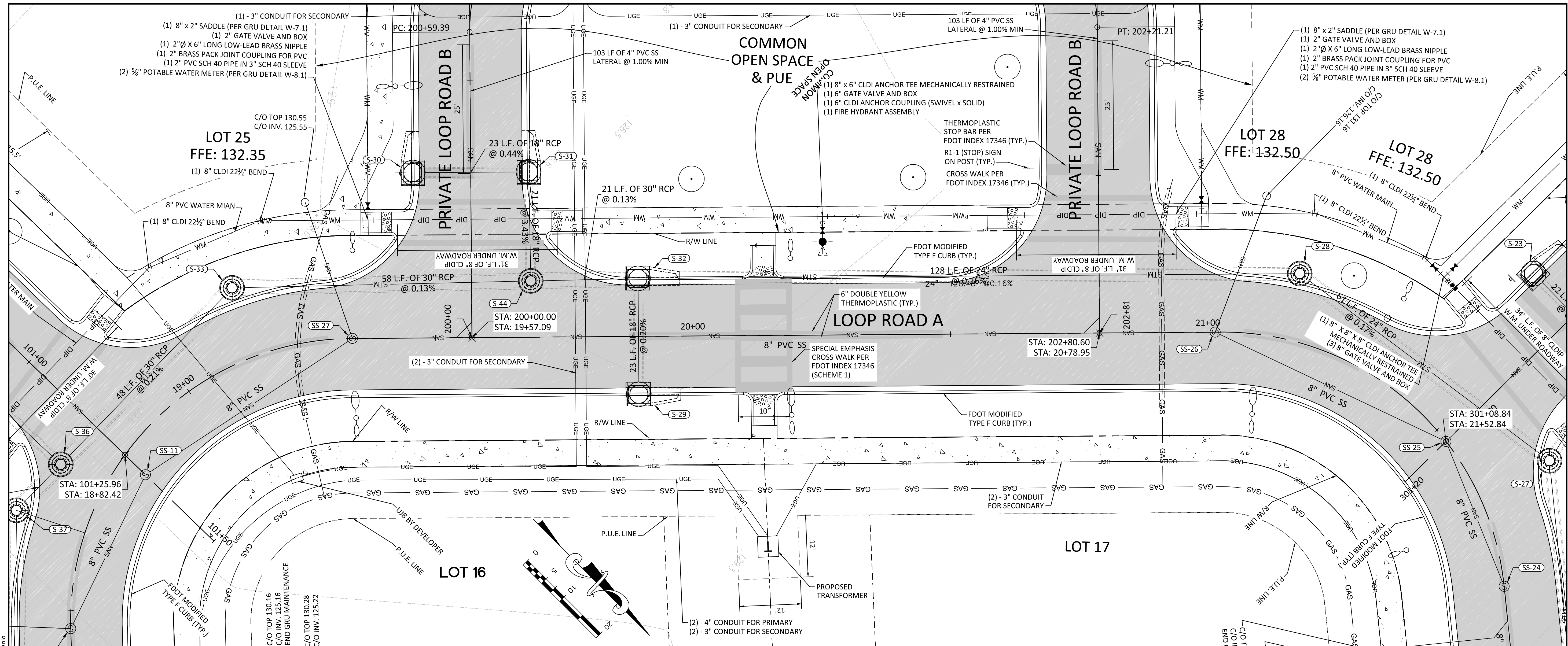
PROJECT NO.: 15-0415.000

SCALE: H: 1" = 10'  
V: 1" = 2' (5X)

DATE: FEBRUARY 1, 2018

DRAWING: C4.06





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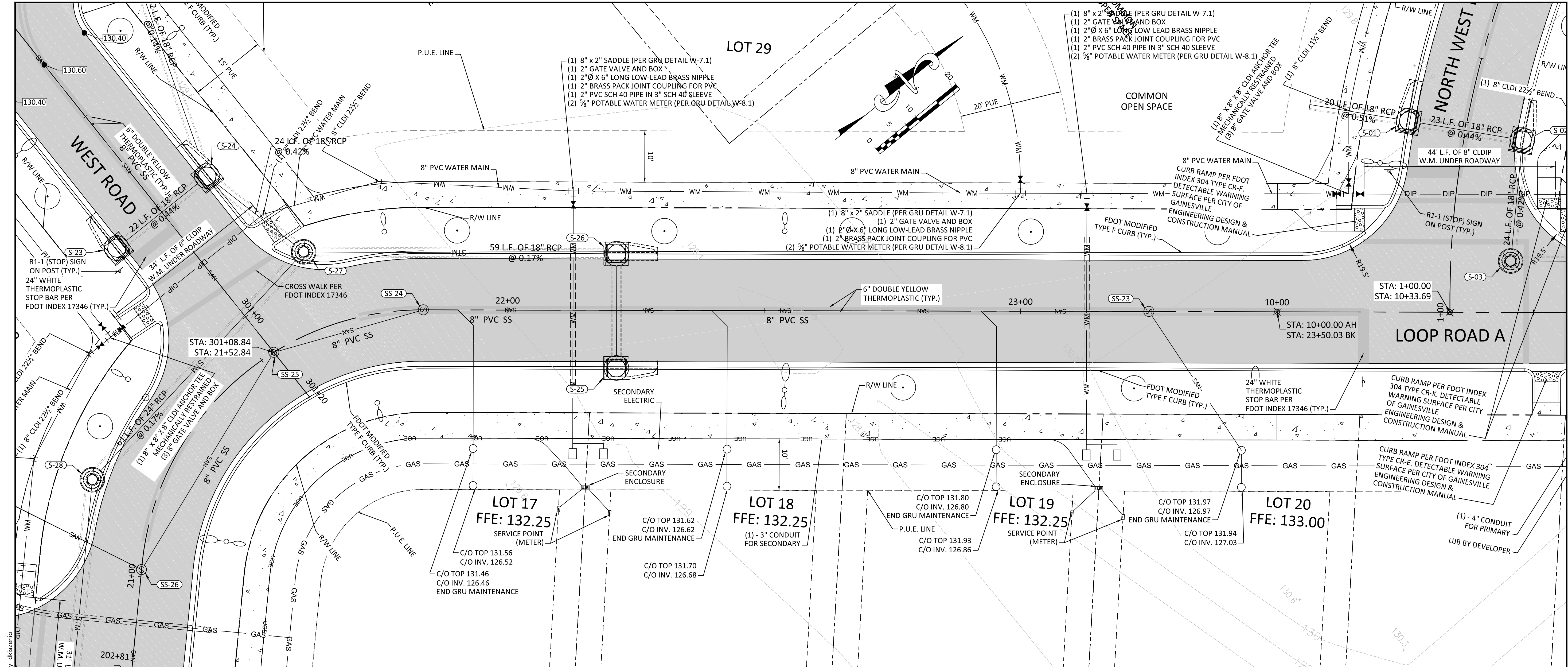
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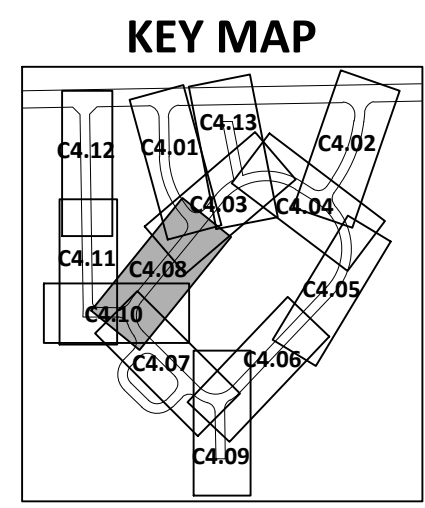
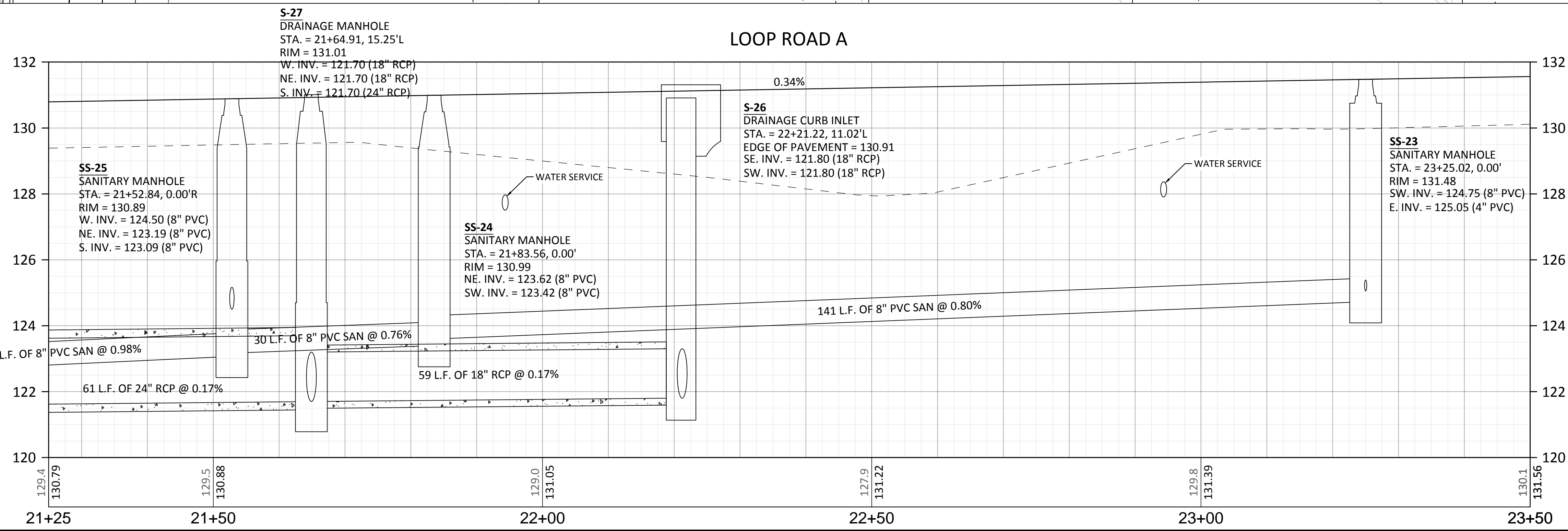
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PROJECT NO.: 15-0415.000
SCALE: H: 1" = 10' V: 1" = 2' (5x)
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DRAWING: C4.07

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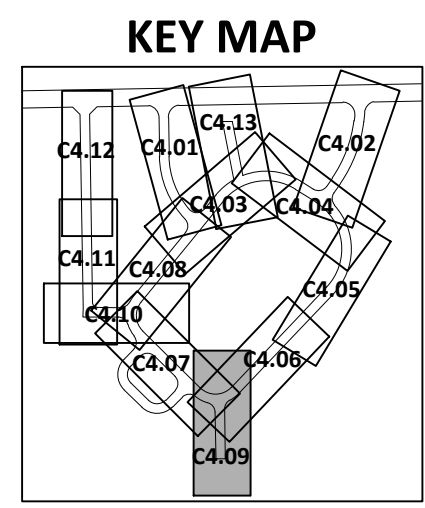
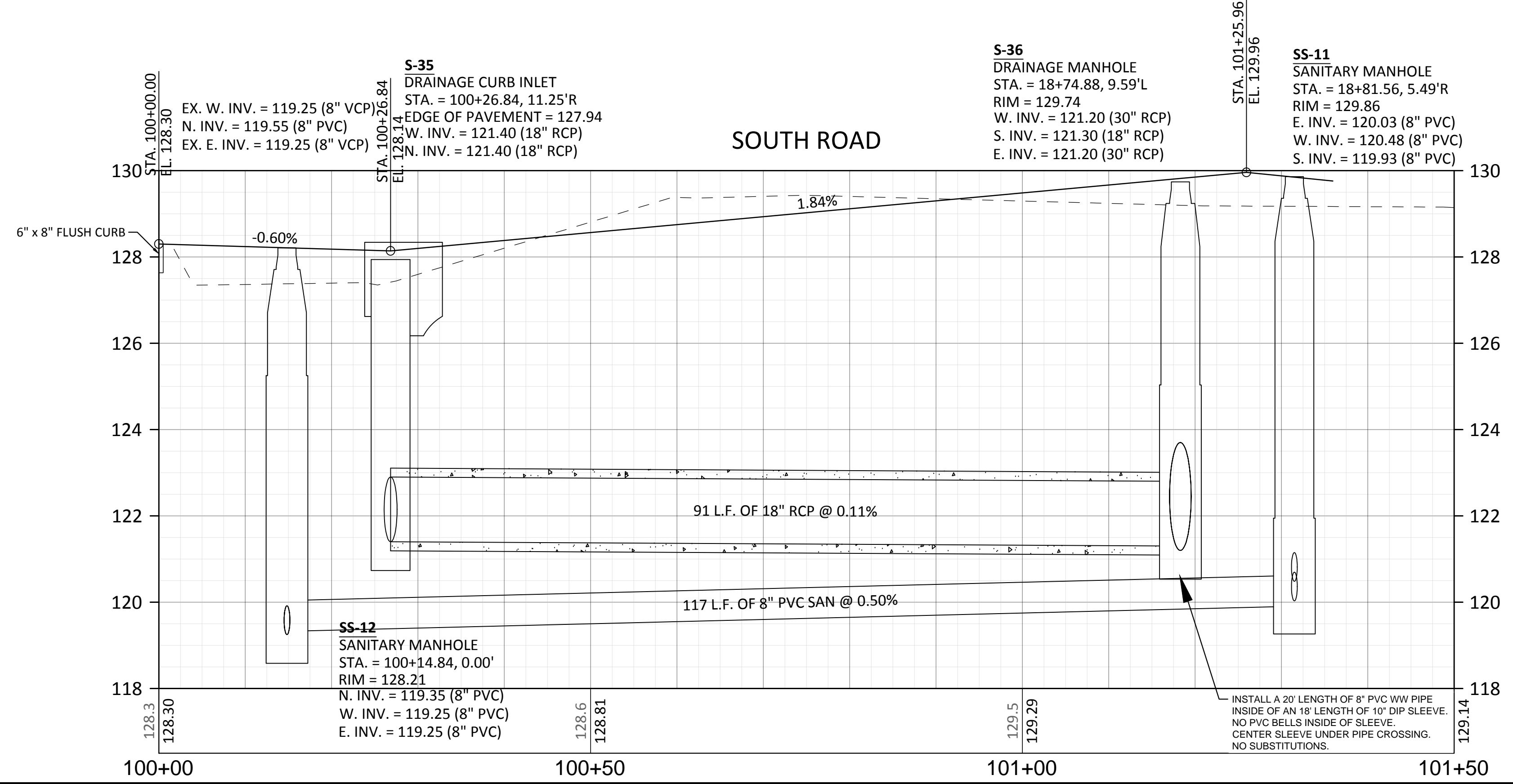
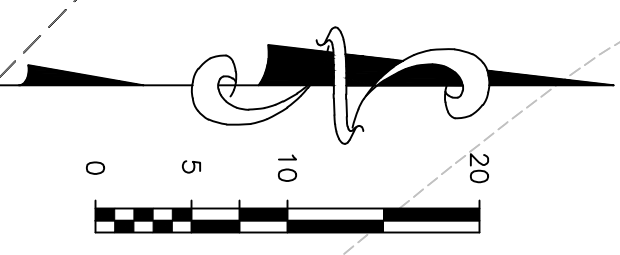
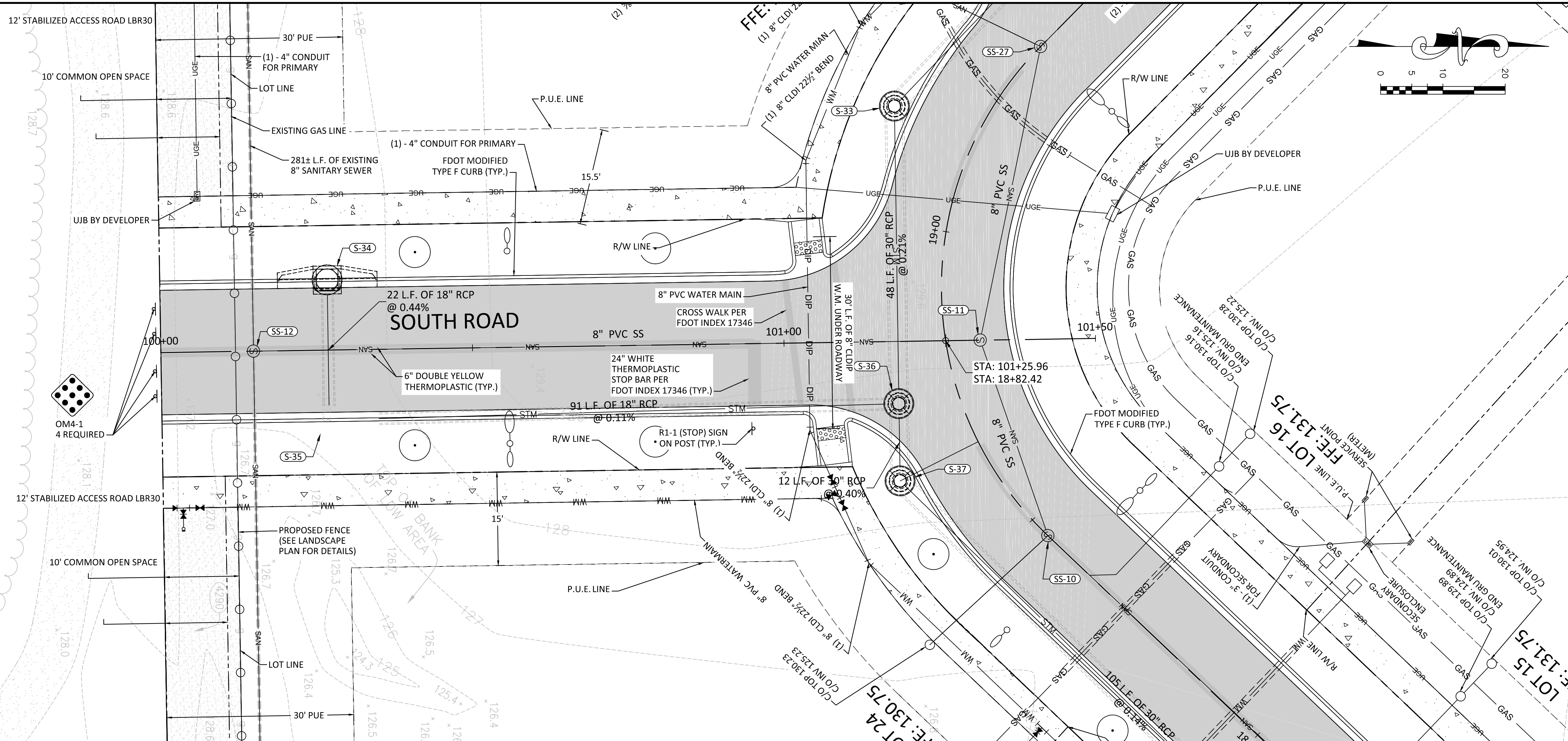
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FEBRUARY 1, 2018

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C4.08



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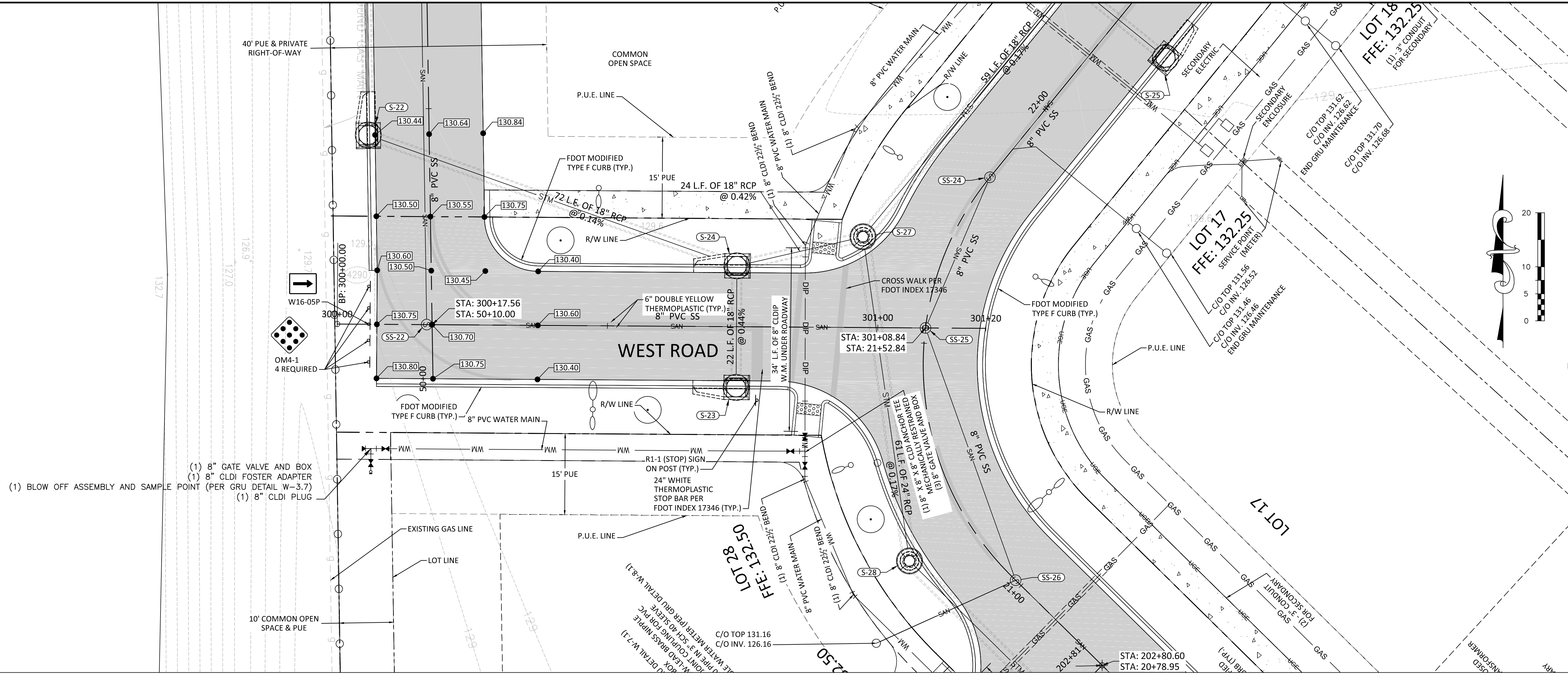
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HEARTWOOD SUBDIVISION		ALACHUA COUNTY, FL	
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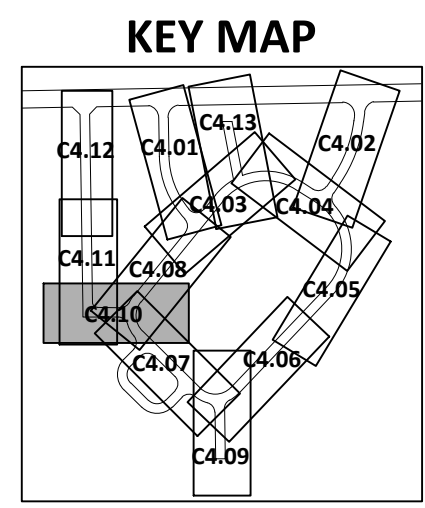
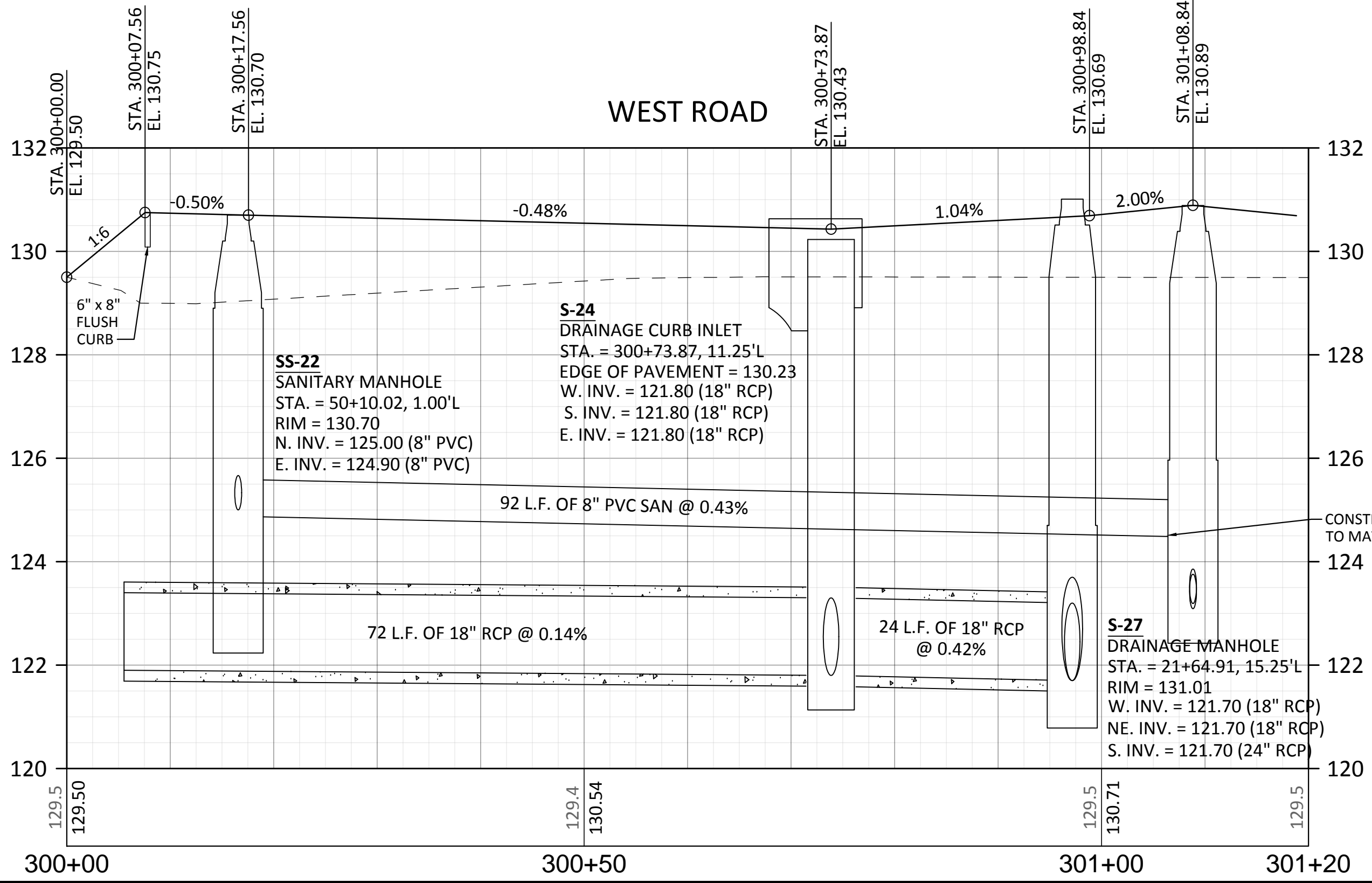
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- (1) 8" GATE VALVE AND BOX
- (1) 8" CLDI FOSTER ADAPTER
- (1) BLOW OFF ASSEMBLY AND SAMPLE POINT (PER GRU DETAIL W-3.7)
- (1) 8" CLDI PLUG



<b>WEST ROAD PLAN AND PROFILE</b>		100% CONFORMED DOCUMENTS FOR <b>HEARTWOOD SUBDIVISION</b> ALACHUA COUNTY, FL	
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FLORIDA P.E. NO.: 68531

PROJECT NO.:  
**15-0415.000**

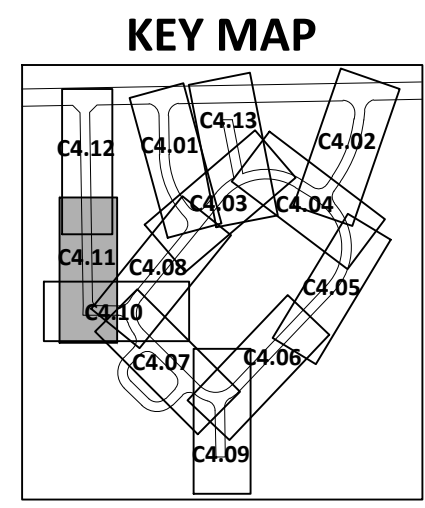
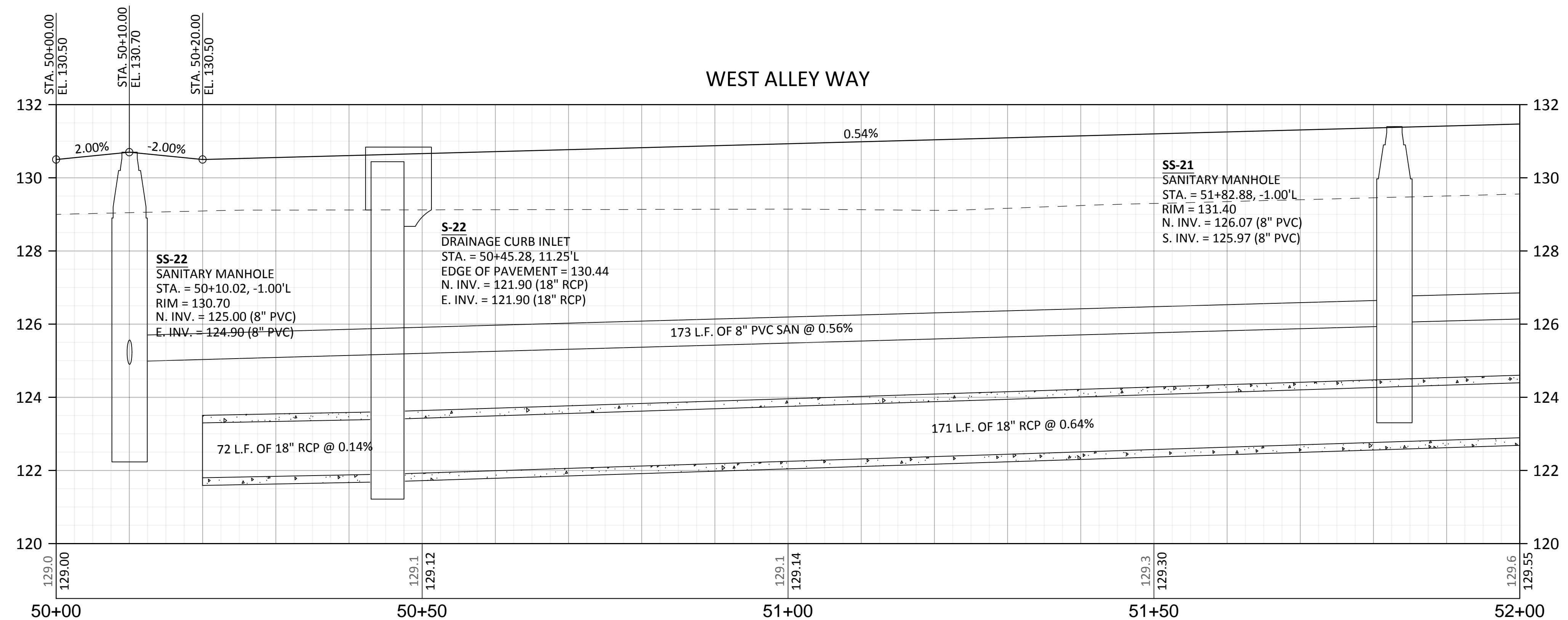
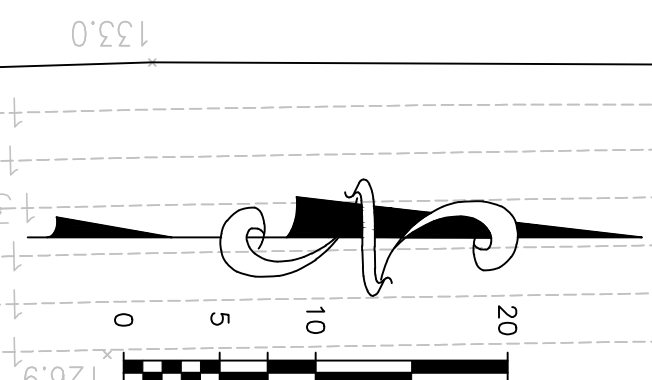
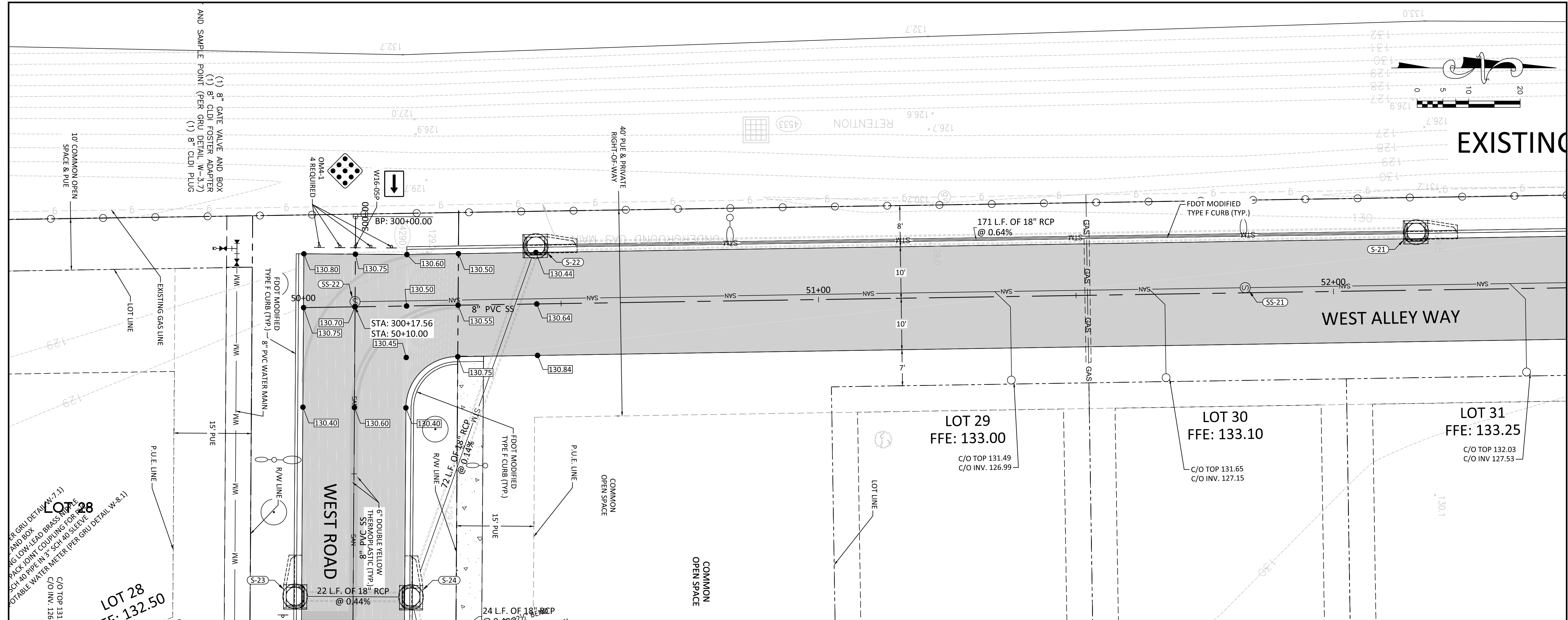
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**FEBRUARY 1, 2018**

DRAWING:  
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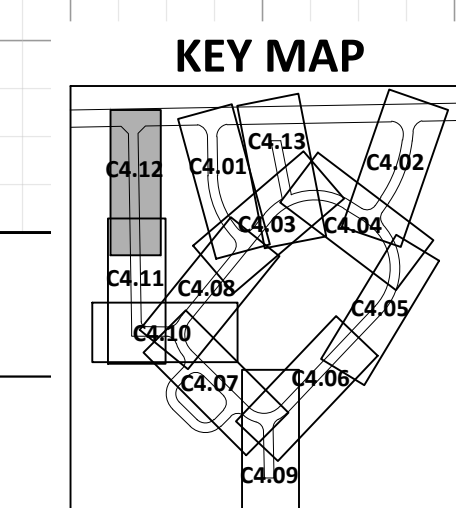
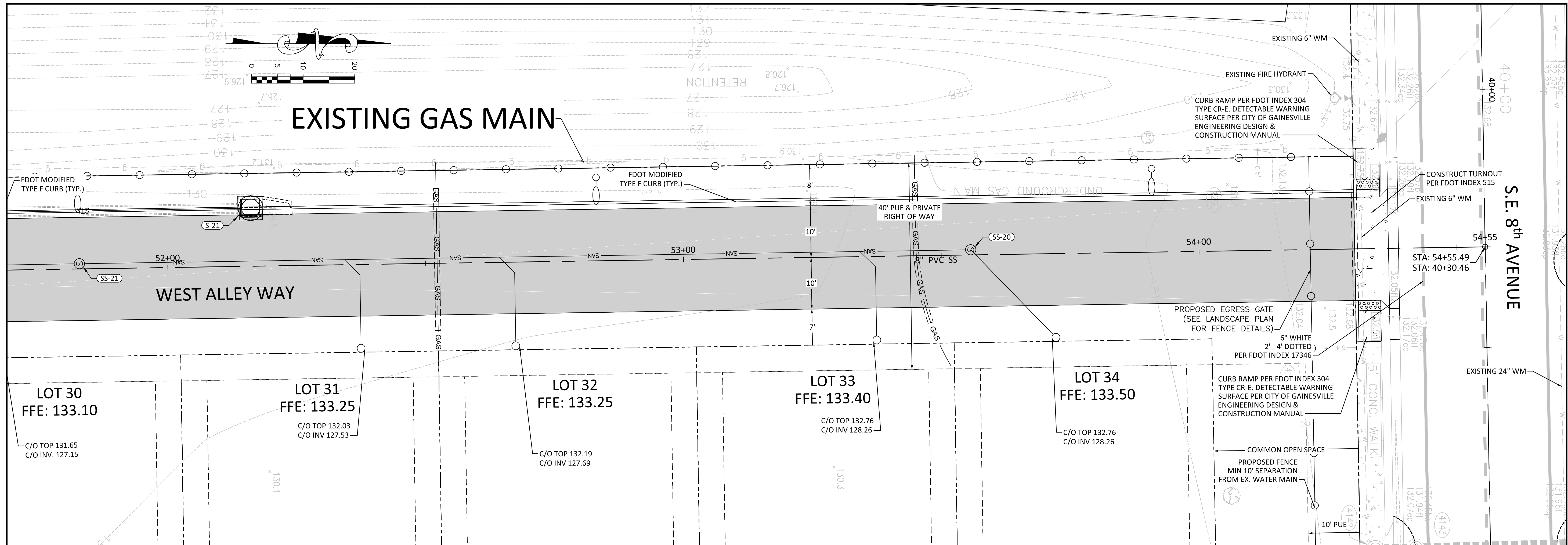
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DRAWN BY		JW	DRAWN BY	JW	DATE	NO.	DESCRIPTION	BY
CHECKED BY		DS	CHECKED BY	DS	DATE	NO.	DESCRIPTION	BY
APPROVED BY		CT	APPROVED BY	CT	DATE	NO.	DESCRIPTION	BY
WEST ALLEY WAY PLAN AND PROFILE				100% CONFORMED DOCUMENTS FOR HEARTWOOD SUBDIVISION ALACHUA COUNTY, FL				
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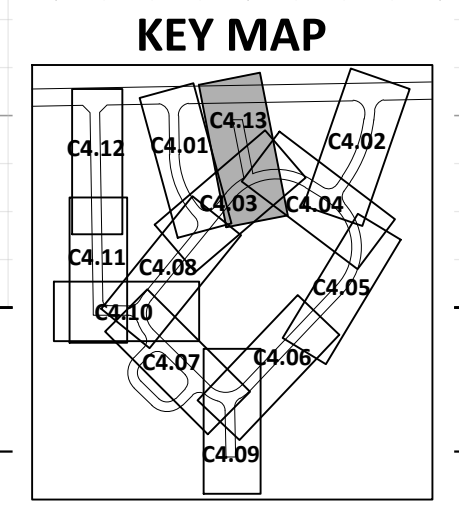
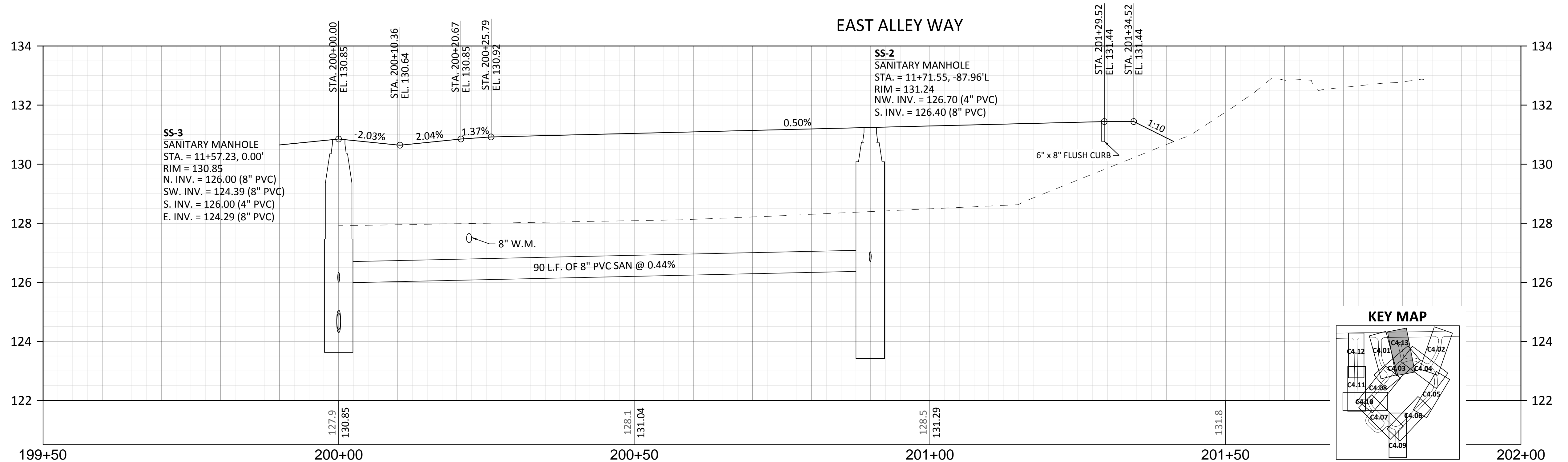
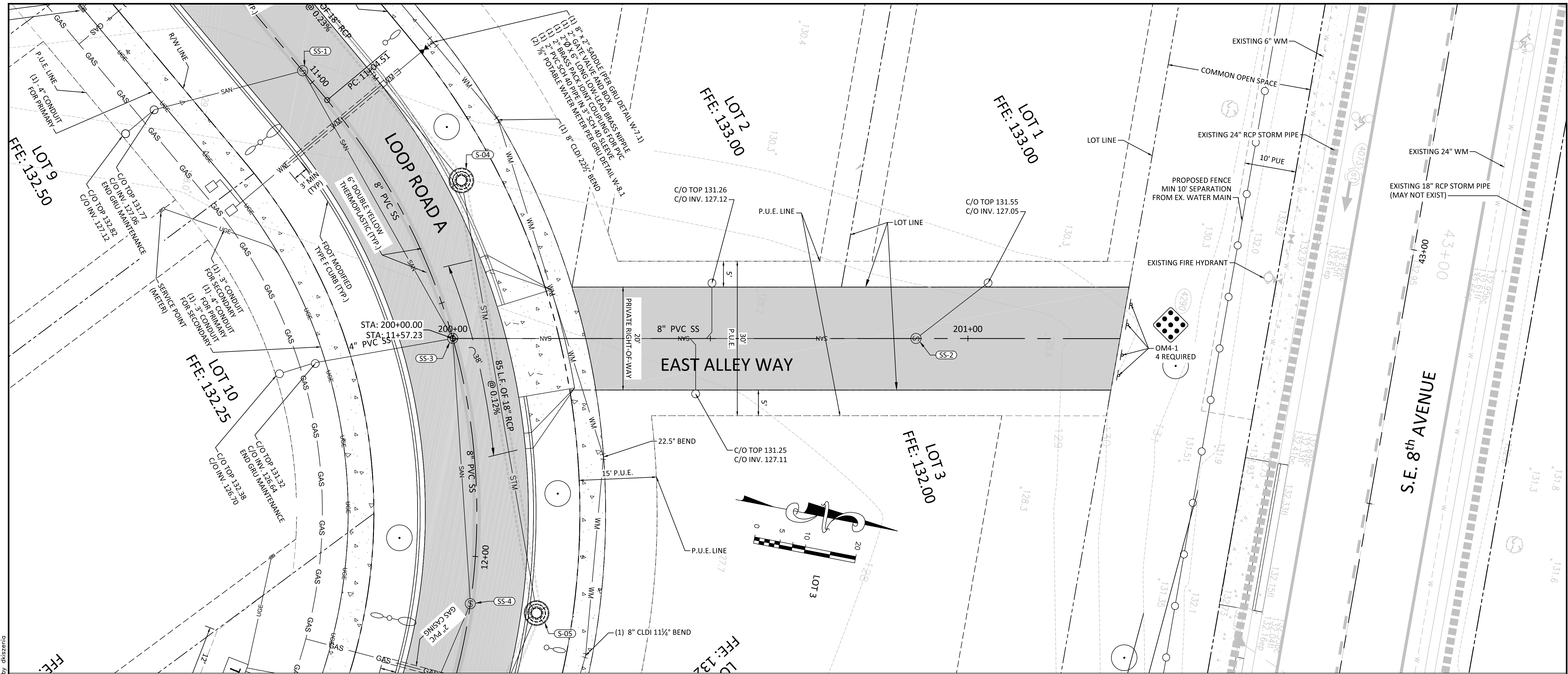


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PROJECT NO.:		15-0415.000							
SCALE:		H: 1" = 10' V: 1" = 2' (5x)							
DATE:		FEBRUARY 1, 2018							
DRAWING:		C4.12							
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EAST ALLEY WAY PLAN AND PROFILE		DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE	
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DS	JW	DS	CT
NO.	DATE	NO.	DATE
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DAVID C. SOWELL, P.E.  
FLORIDA P.E. NO.: 68531

PROJECT NO.:  
15-0415.000

SCALE: H: 1" = 10'  
V: 1" = 2' (5x)

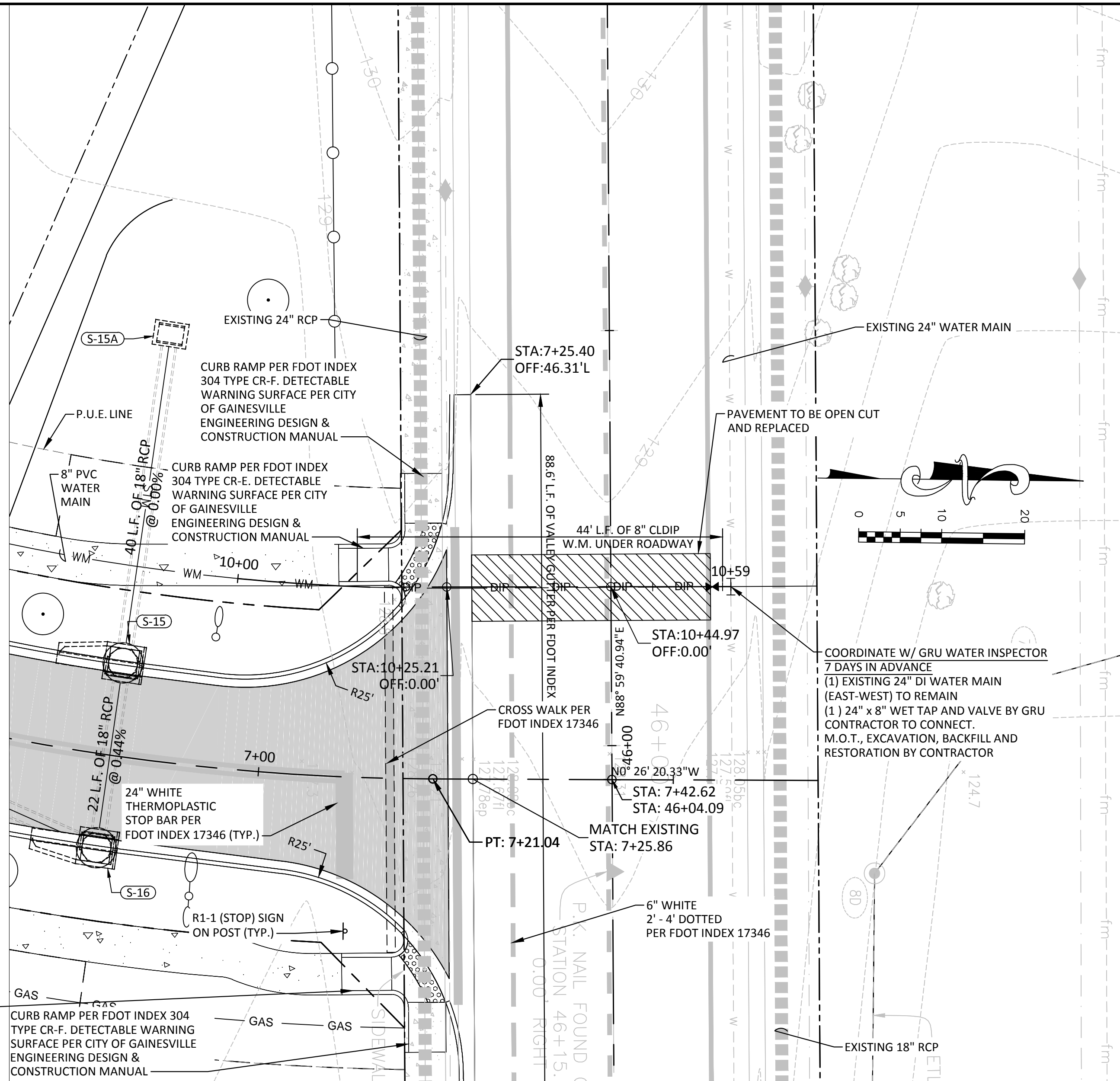
DATE:  
FEBRUARY 1, 2018

DRAWING:  
C4.13

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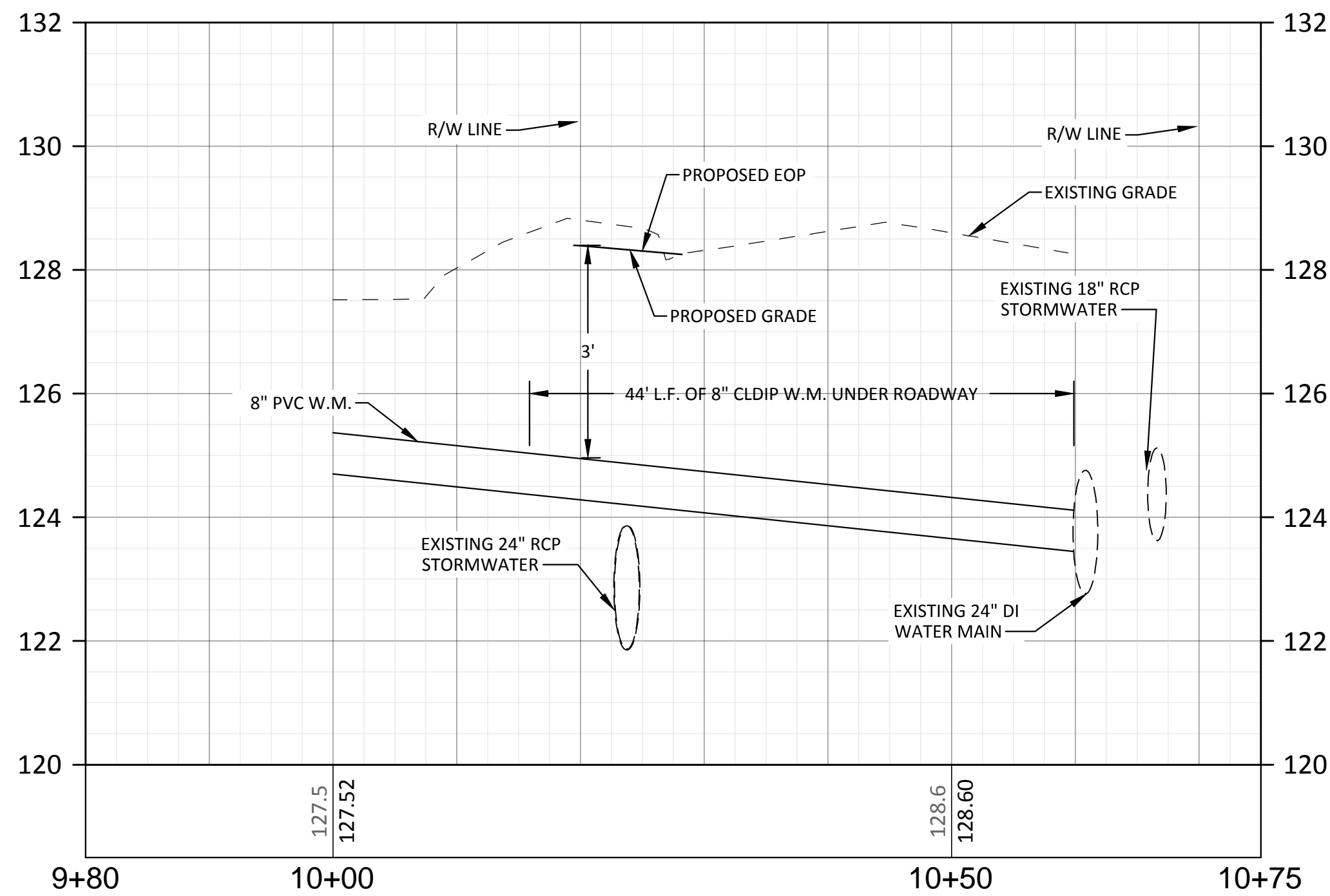


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CURB RAMP PER FDOT INDEX 304 TYPE CR-E, DETECTABLE WARNING SURFACE PER CITY OF GAINESVILLE ENGINEERING DESIGN & CONSTRUCTION MANUAL

ROAD CROSSING DETAIL



DESIGNED BY		DS	DATE		R E V I S I O N S	
DRAWN BY		JW			DESCRIPTION	
CHECKED BY		DS			NO.	
APPROVED BY		CT			BY	

100% CONFORMED DOCUMENTS FOR  
**HEARTWOOD SUBDIVISION**  
 ALACHUA COUNTY, FL

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DAVID C. SOWELL, P.E.  
 FLORIDA P.E. NO.: 68531

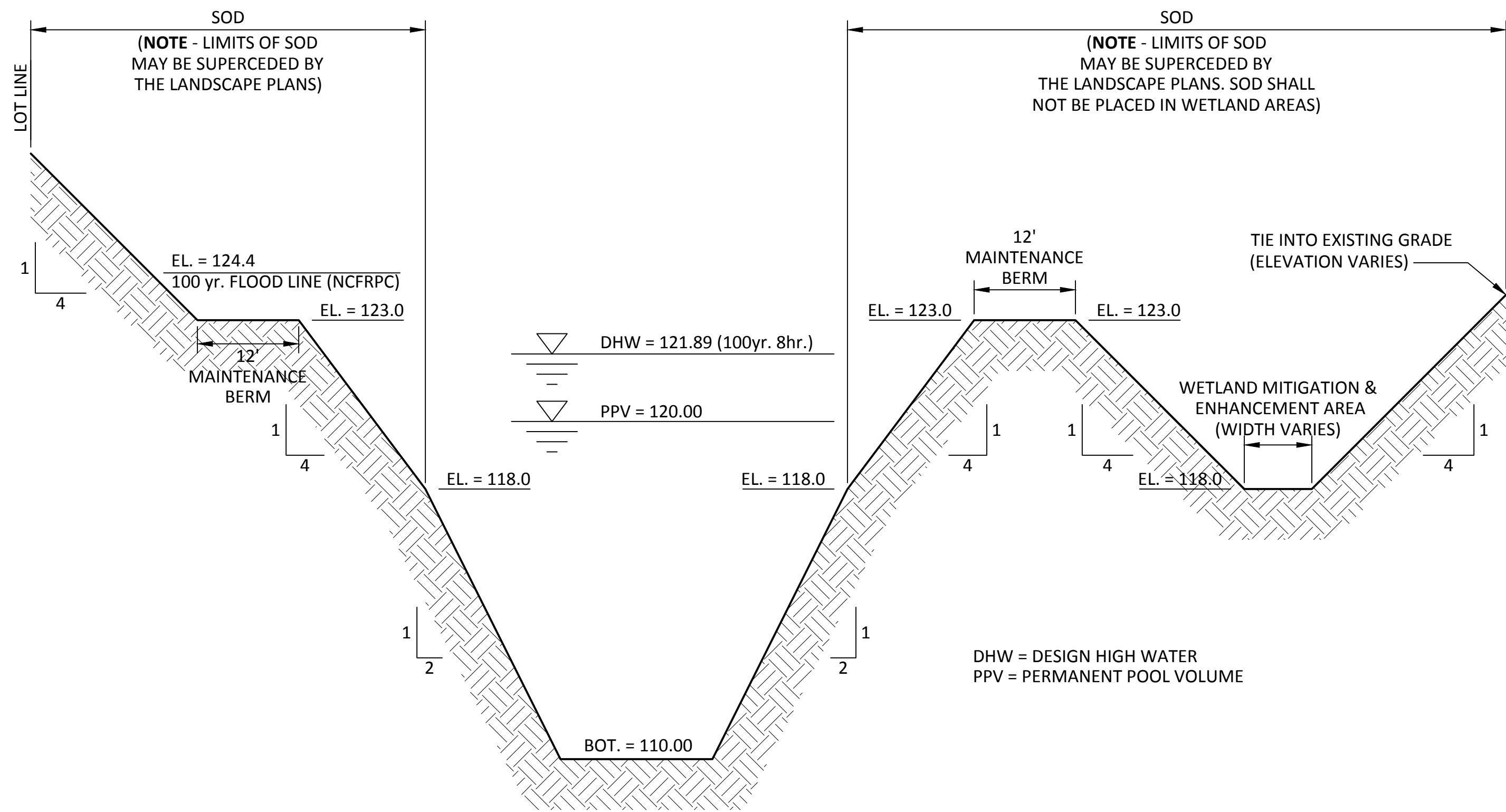
PROJECT NO.:  
 15-0415.000

SCALE: H: 1" = 10'  
 V: 1" = 2' (5x)

DATE:  
 FEBRUARY 1, 2018

DRAWING:  
 C4.14



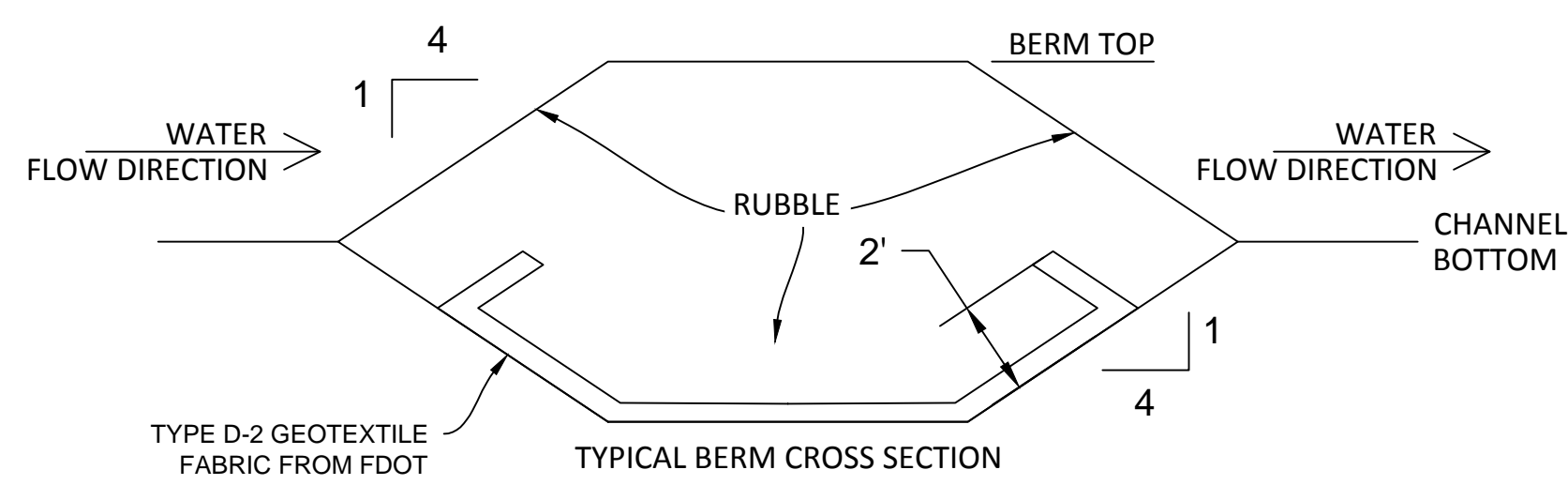


**POND TYPICAL CROSS SECTION**  
SCALE: 1" = 12' H; 1" = 3' V (4x)

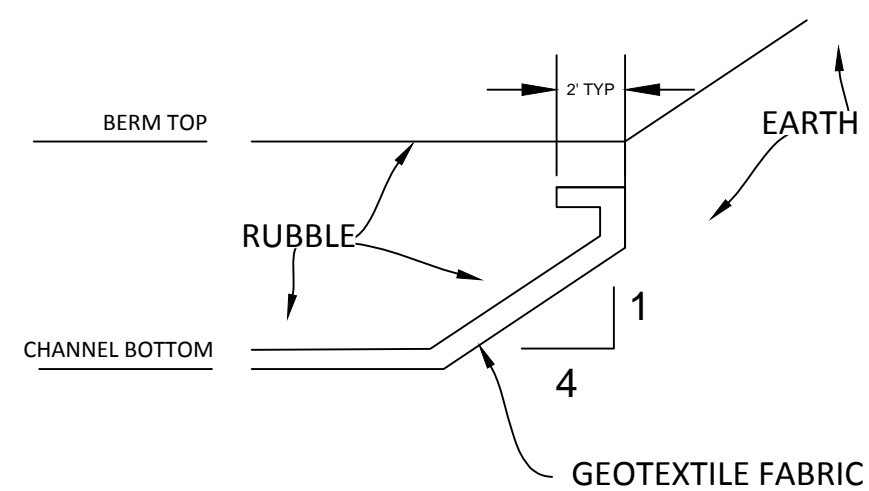
**BERMS A-C**  
TOP/OVERFLOW ELEVATION = 119.5  
CHANNEL BOTTOM LEFT/RIGHT = 117/117  
GEOFABRIC & RUBBLE BOTTOM = 116.5

**BERM E**  
TOP/OVERFLOW ELEVATION = 121  
CHANNEL BOTTOM LEFT/RIGHT = 120/119  
GEOFABRIC & RUBBLE BOTTOM = 118.5

**BERM D**  
TOP/OVERFLOW ELEVATION = 119.0  
CHANNEL BOTTOM LEFT/RIGHT = 118/117  
GEOFABRIC & RUBBLE BOTTOM = 116.5



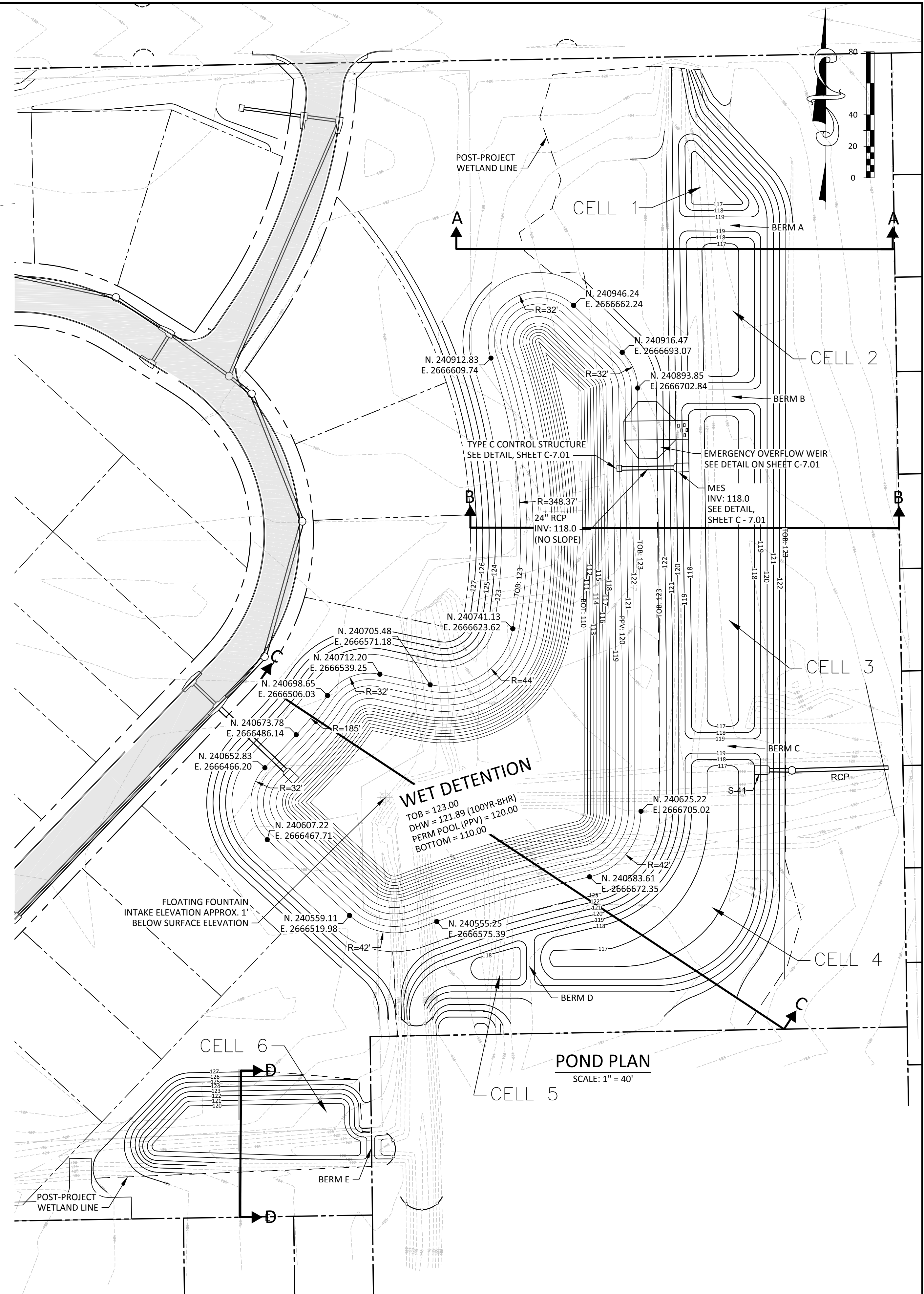
**TYPICAL BERM CROSS SECTION**  
SCALE: NS



**TYPICAL BERM LONGITUDINAL SECTION**  
SCALE: NS

**NOTES:**

GEOTEXTILE FABRIC SHALL BE TYPE D-2 AND FROM FDOT APL. WRAP FABRIC BACK AGAINST ITSELF A MINIMUM OF 2' OR PER MANUFACTURERS SPECS. RUBBLE SHALL MEET THE REQUIREMENTS OF FDOT SPEC 530 FOR "RUBBLE(DITCH LINING)"



**POND PLAN**  
SCALE: 1" = 40'

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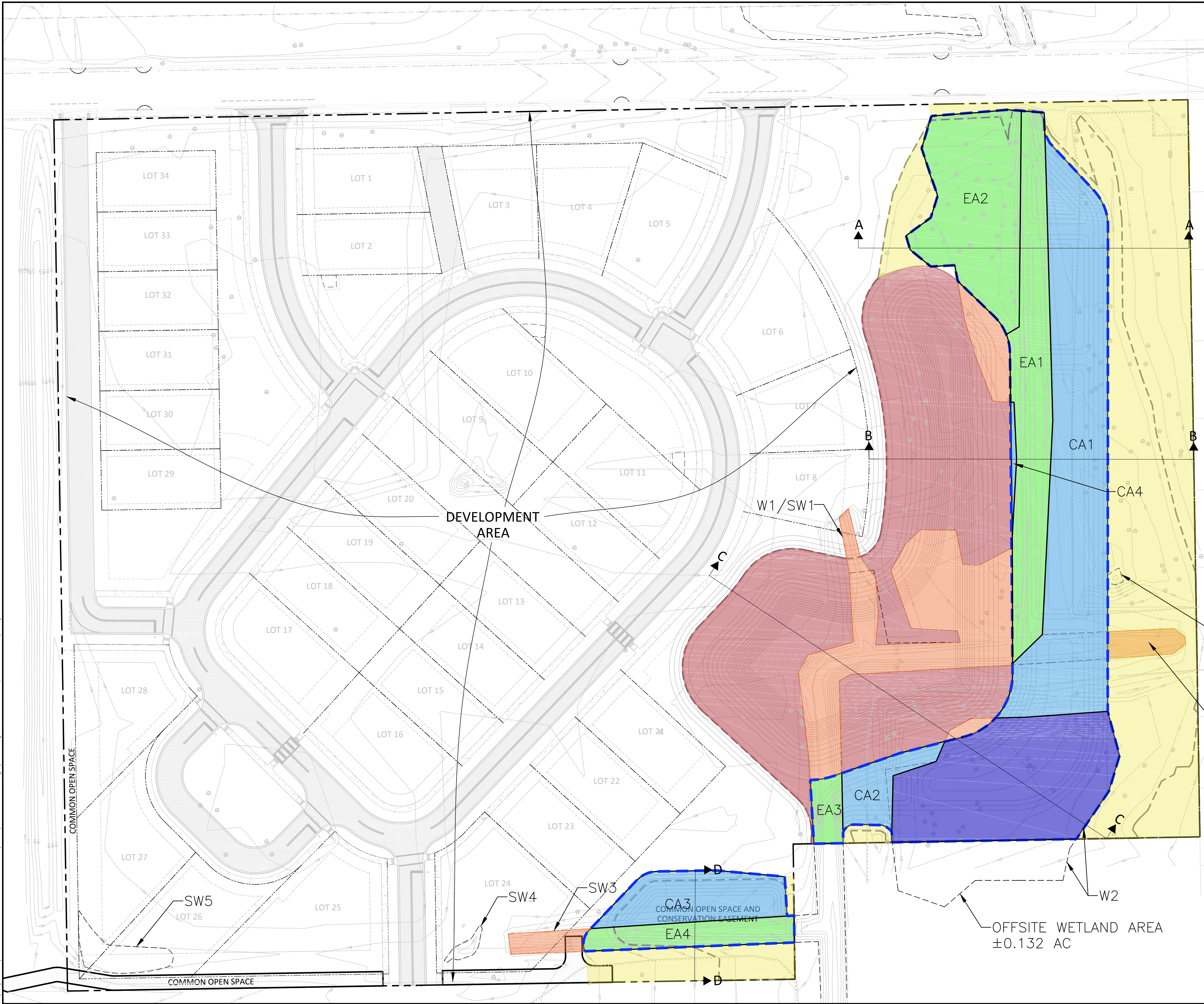
REVISIONS		DATE		DESCRIPTION	
NO.	BY	DATE	DESCRIPTION		
DESIGNED BY	DS	DRAWN BY	JW	CHECKED BY	DS
APPROVED BY	CT				
<b>POND DETAIL SHEET</b>					
100% CONFORMED DOCUMENTS FOR					
<b>HEARTWOOD SUBDIVISION</b>					
ALACHUA COUNTY, FL					
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PROJECT NO.: 15-0415.000					
SCALE: AS SHOWN					
DATE: FEBRUARY 1, 2018					
DRAWING: C6.00					







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**LEGEND:**

- CREATED WETLANDS  
±0.766 AC (±33,377 SF)
- IMPACTED WETLANDS  
±0.471 AC (±20,535 SF)
- ENHANCED WETLANDS  
±0.675 AC (±29,402 SF)
- RESTORED WETLANDS  
±0.374 AC (±16,294 SF)
- UPLAND CONSERVATION  
±1.315 AC (±57,279 SF)
- STORMWATER FACILITIES  
±1.161 AC (±50,594 SF)
- POST PROJECT WETLAND BOUNDARY  
±1.818 AC (±79,189 SF)
- EXISTING WETLAND LINES
- WETLAND AND SURFACE WATER AREAS
- NCFRPC FLOOD LINE
- SW1 SURFACE WATER 1

**CREATED WETLAND AREA BREAKDOWN:**  
 CA1 = ±0.561 AC  
 CA2 = ±0.065 AC  
 CA3 = ±0.133 AC  
 CA4 = ±0.007 AC  
 TOTAL = ±0.766 AC

**ENHANCED WETLAND AREA BREAKDOWN:**  
 EA1 = ±0.279 AC  
 EA2 = ±0.280 AC  
 EA3 = ±0.033 AC  
 EA4 = ±0.083 AC  
 TOTAL = ±0.675 AC

**EXISTING ONSITE SURFACE WATER & WETLAND AREA BREAKDOWN:**  
 W1/SW1 = ±1.063 AC  
 W2 = ±0.383 AC  
 W3 = ±0.003 AC  
 W4 = ±0.109 AC  
 W5 = ±0.008 AC  
 SW5 = ±0.042 AC  
 TOTAL = ±1.608 AC

**NOTE:** SEE UNIFORM MITIGATION ASSESSMENT METHOD (UMAM) ANALYSIS FOR WETLAND IMPACTS ON THE HEARTWOOD SUBDIVISION PROJECT SITE DATED DECEMBER 2016 FOR ADDITIONAL WETLAND AND SURFACE WATER INFORMATION

±1,358 SF INCLUDED IN IMPACTED WETLAND AND UPLAND CONSERVATION AREA SHOWN IN LEGEND

OFFSITE WETLAND AREA  
±0.132 AC

REVISIONS	NO.	DATE	DESCRIPTION	BY
DESIGNED BY	DS	LMS	CDT	CDT
DRAWN BY				
CHECKED BY				
APPROVED BY				

**WETLAND IMPACT AND MITIGATION PLAN**

SITE ENGINEERING PLANS FOR  
**HEARTWOOD SUBDIVISION**

ALACHUA COUNTY, FLORIDA

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DAVID C. SOWELL, P.E.  
FLORIDA P.E. NO.: 68531

PROJECT NO.:  
**15-0415.000**

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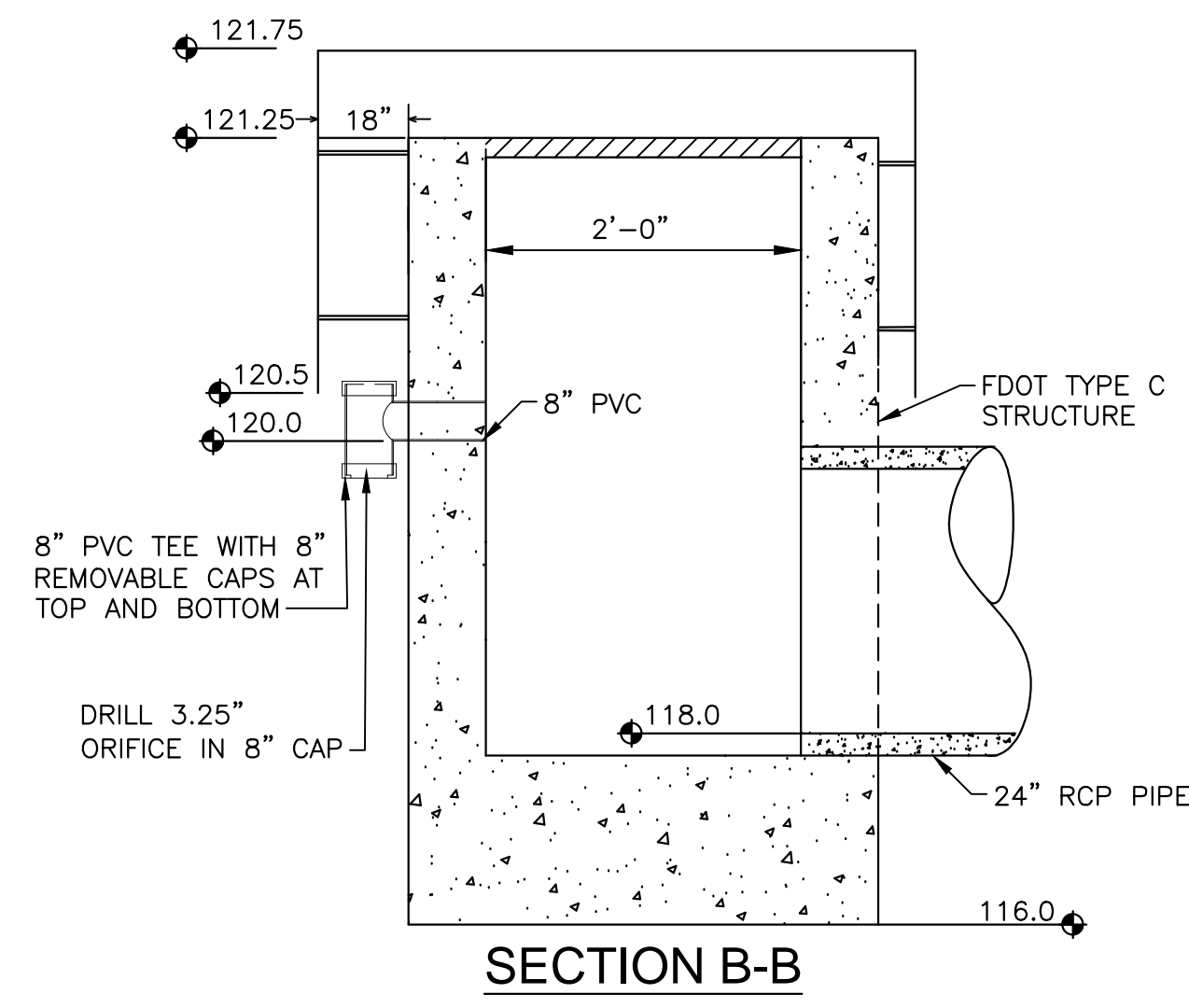
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DRAWING:

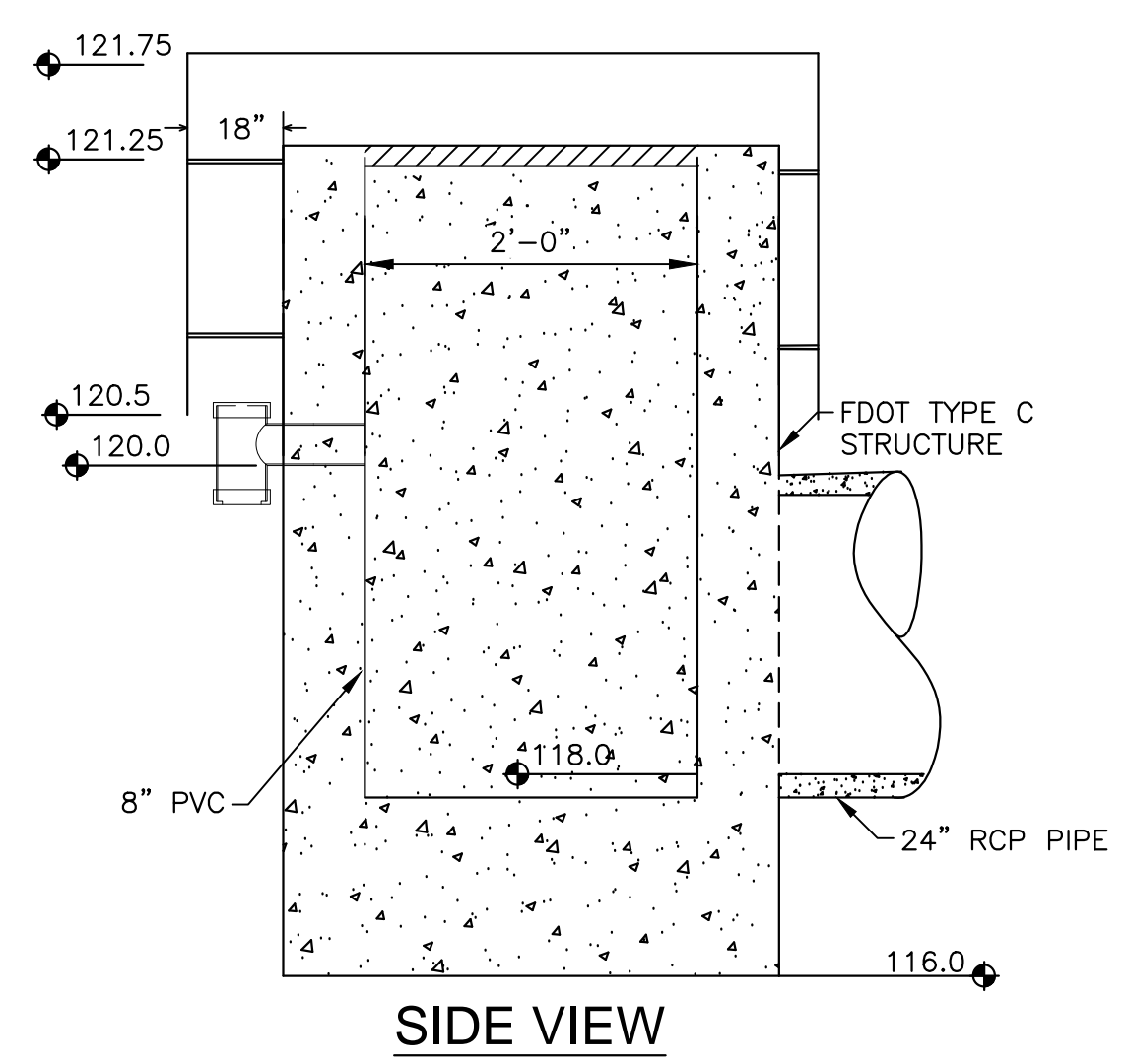
**C6.02**



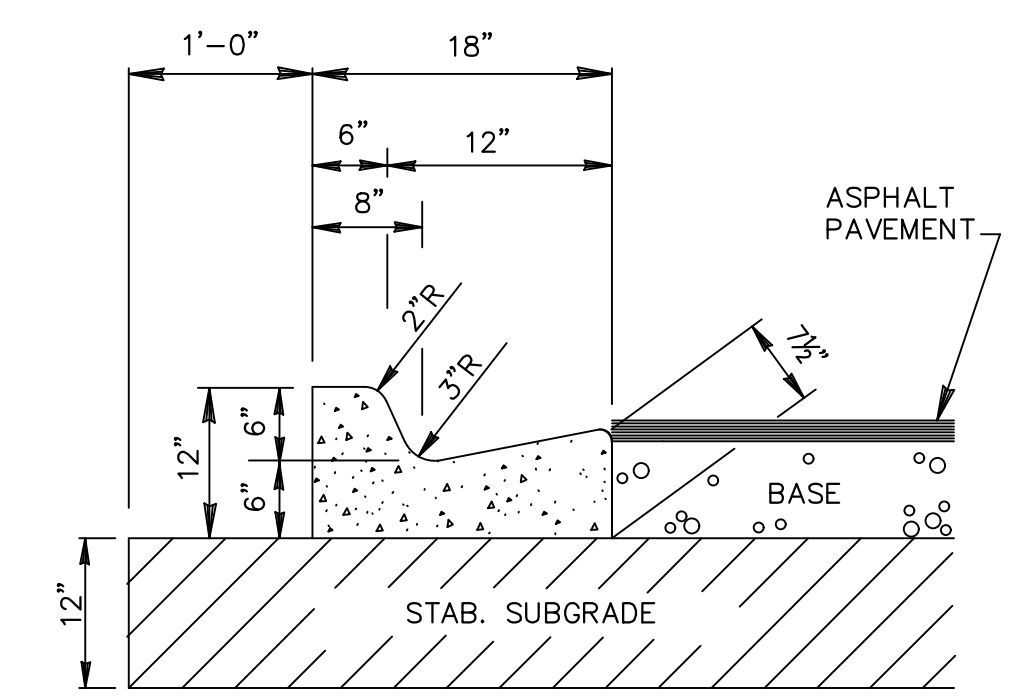
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SECTION B-B

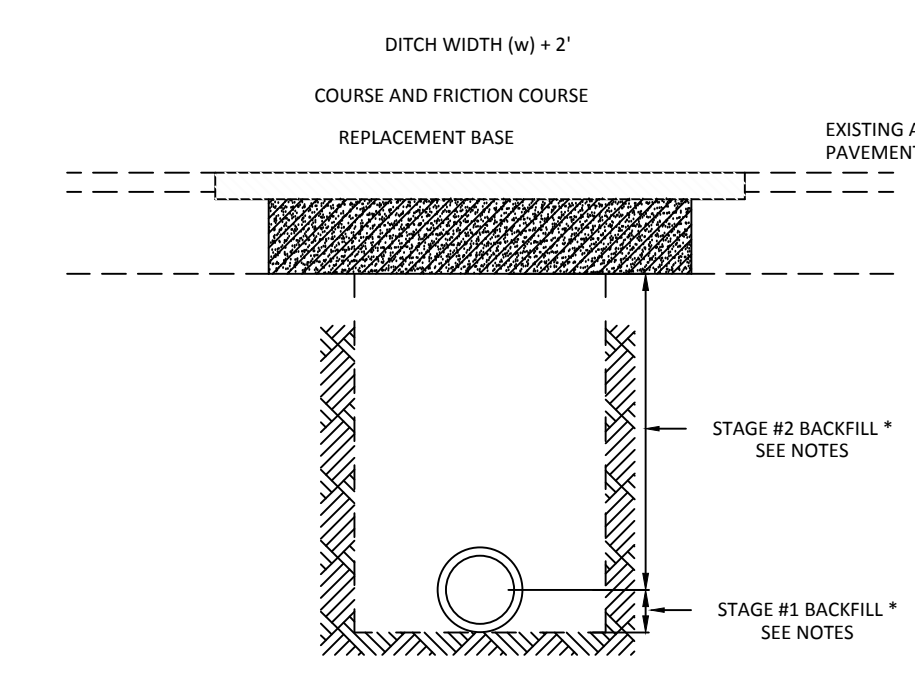


SIDE VIEW



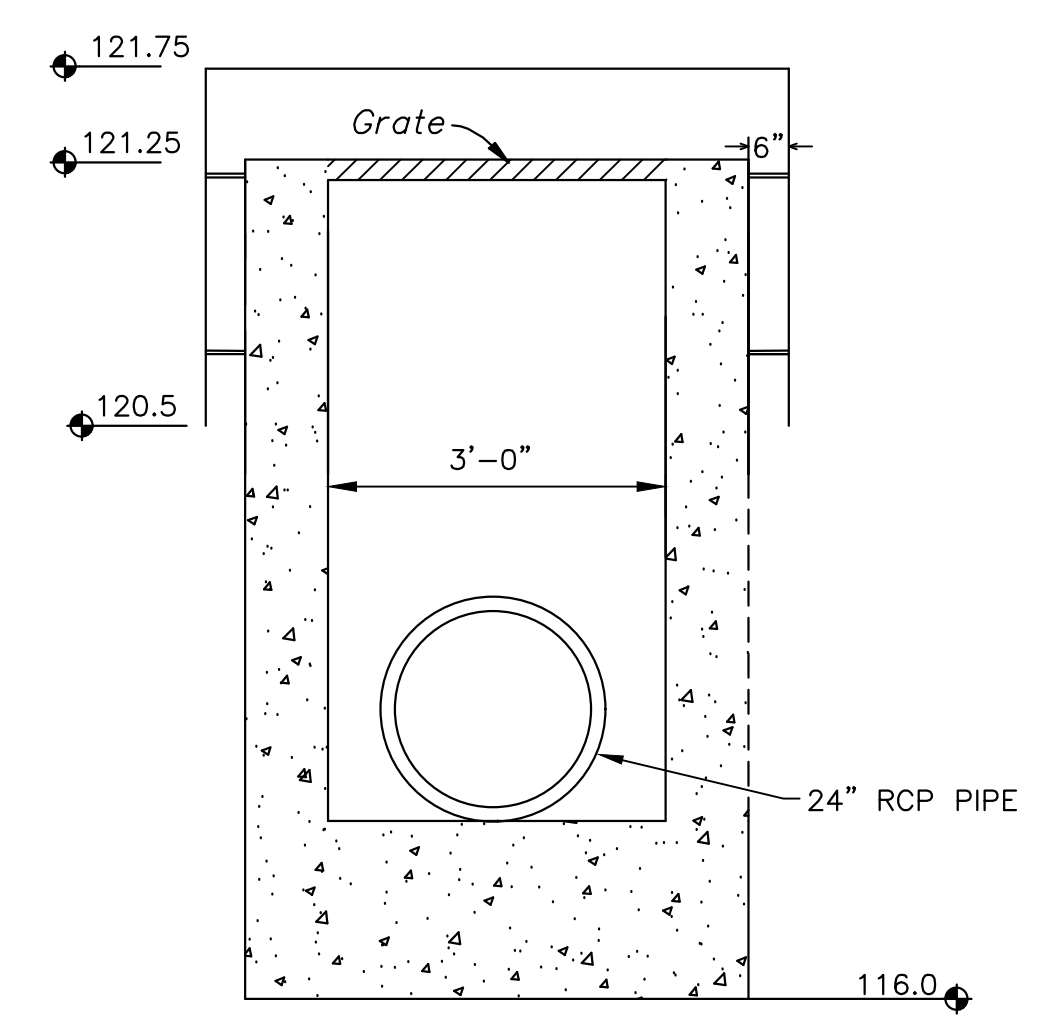
MODIFIED FDOT TYPE F CURB  
NOT TO SCALE

- CURB NOTES:**
1. ALL CURBS TO BE CONSTRUCTED OF 28 DAY, 3,000 P.S.I. CONCRETE
  2. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED EVERY 500', CONSTRUCTION JOINT REQUIRED EVERY 10' MAXIMUM (4' MINIMUM).
  3. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED AT EACH SIDE OF ALL STORM INLET STRUCTURES AND AT ALL RADIUS POINTS.
  4. SUB-BASE TO BE COMPACTED AND TESTED TO 98% MINIMUM DENSITY WITH MINIMUM L.B.R. 40 BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.
  5. EXPANSION JOINT MATERIAL MUST COVER THE ENTIRE CROSS SECTION OF CURB.

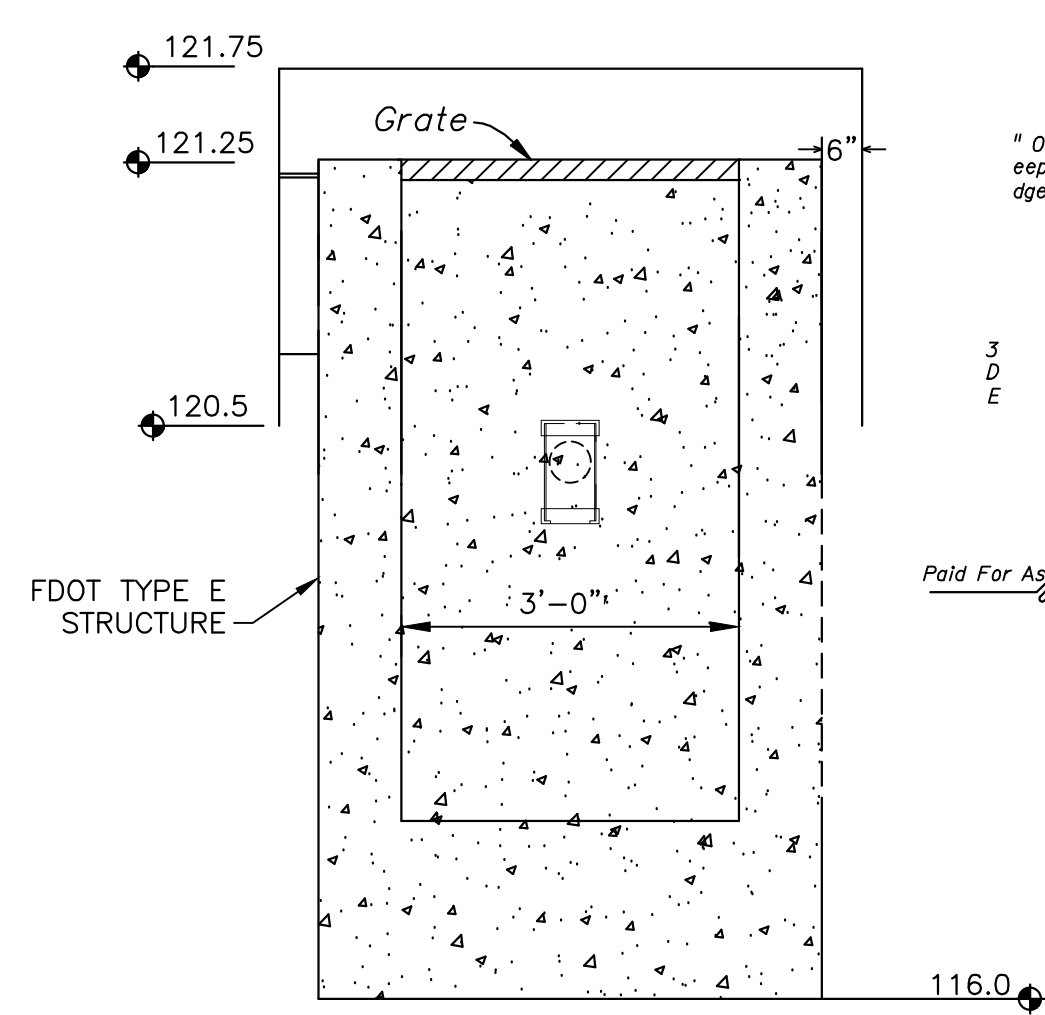


OPEN CUT AND REPAIR  
PAVEMENT DETAILS  
NOT TO SCALE

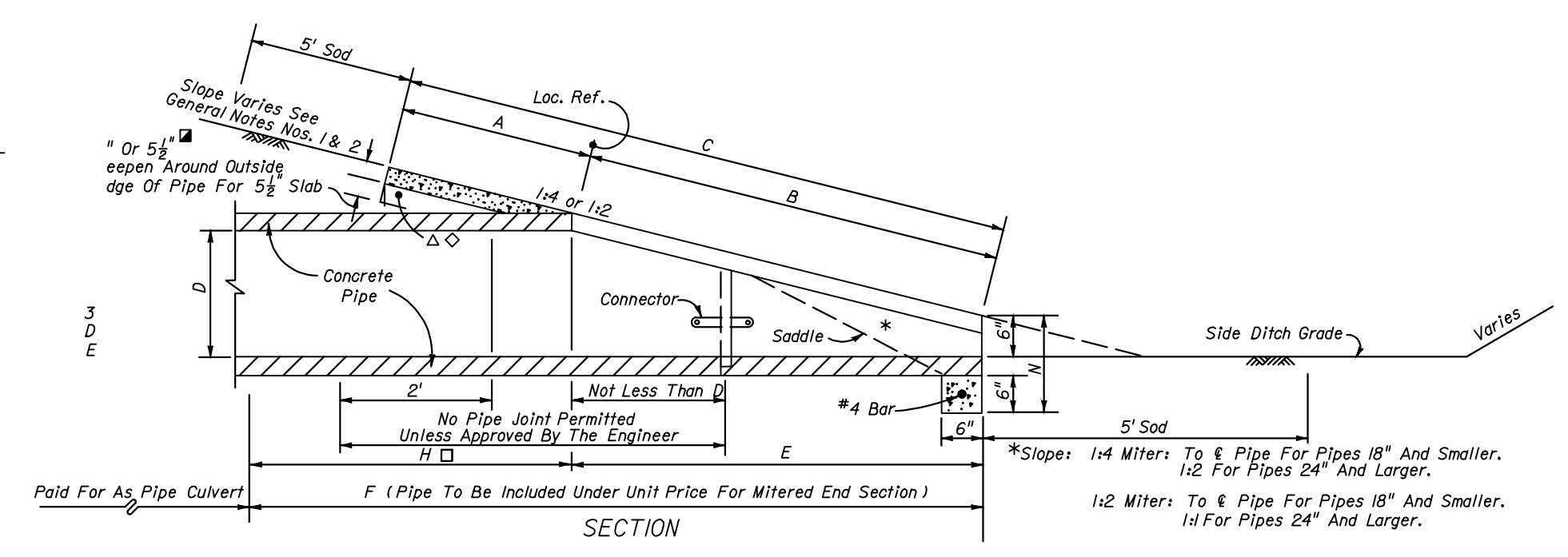
- NOTES:**
1. IN STAGE #1, CONSTRUCT COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING.
  2. IN STAGE #2, CONSTRUCT COMPACTED FILL ALONG THE SIDES OF THE PIPE AND UP TO THE BOTTOM OF THE BASE, WITH THE UPPER 12" RECEIVING TYPE B STABILIZATION. IN LIEU OF TYPE B STABILIZATION, THE CONTRACTOR MAY CONSTRUCT USING OPTIONAL BASE GROUP 3.
  3. REPLACEMENT ASPHALT SHALL MATCH THE EXISTING STRUCTURAL AND FRICTION COURSES FOR TYPE AND THICKNESS IN ACCORDANCE WITH CURRENT FDOT ASPHALT MIX AND SPECIFICATIONS.
  4. NEW REPLACEMENT BASE SHALL BE 8" MIN. AND COMPACTED TO NOT LESS THAN 98% OF MAX DENSITY AS SPECIFIED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION 200-7.2.
  5. UNLESS OTHERWISE SPECIFIED, MATERIALS AND METHODS OF OPERATION REQUIRED TO INSTALL NEW AND REPLACEMENT PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  6. PAVEMENT SHALL BE CUT TO A CLEAN AND STRAIGHT EDGE.
  7. PAVEMENT CUTS SHALL HAVE THE ASPHALT SURFACE REPLACED WITHIN 24 HOURS, WITH OPEN CUT RESTORATION PERFORMED IN ACCORDANCE WITH MOSWAT CURRENT EDITION OF FDOT INDEX NO. 307 USING THE FLOWABLE FILL OPTION.
  8. THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED BY CALLING 352-334-5070 PRIOR TO START OF EXCAVATION.



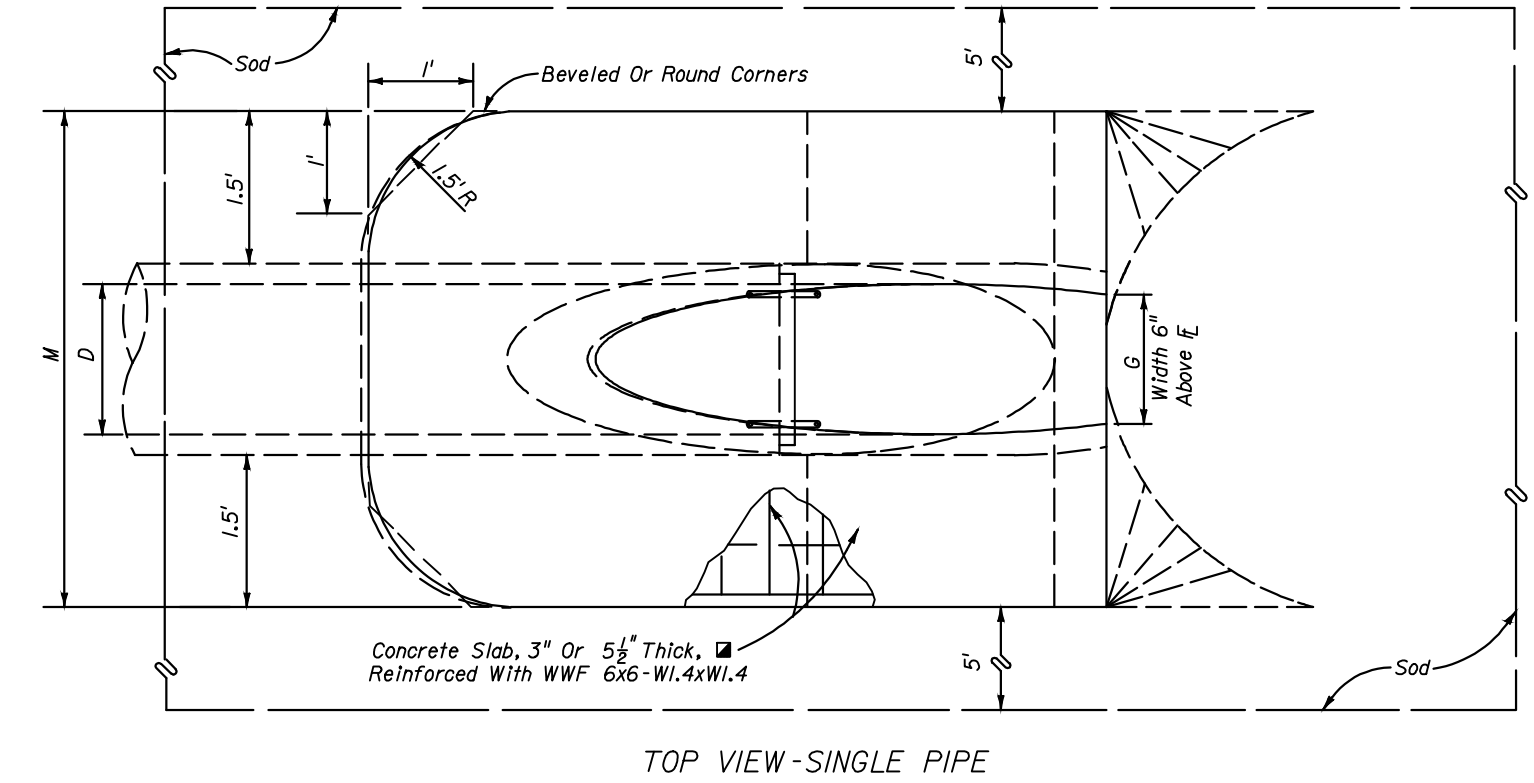
SECTION A-A



FRONT VIEW

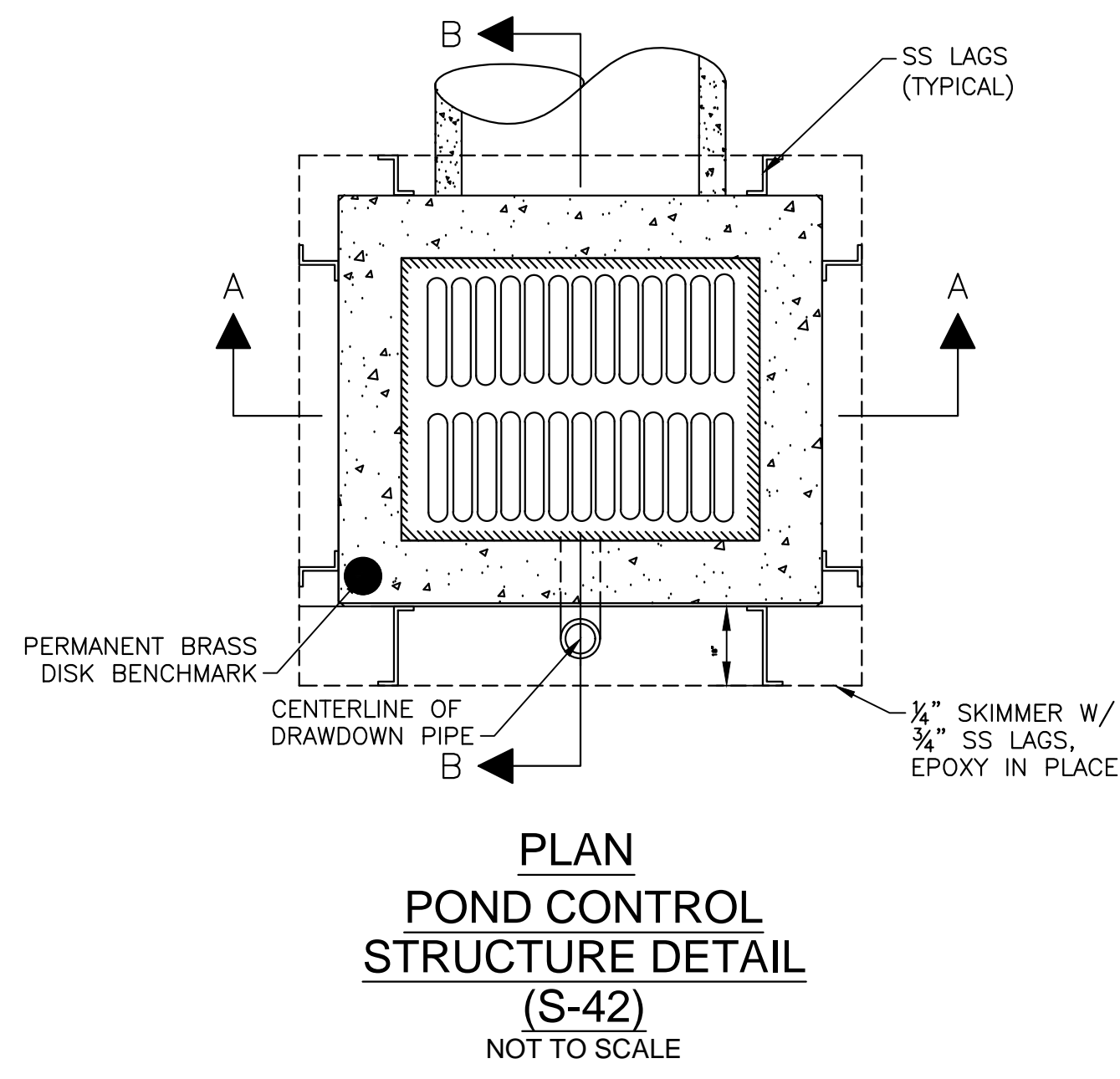


MITERED END SECTION  
FOR DIMENSIONS SEE FDOT INDEX 272

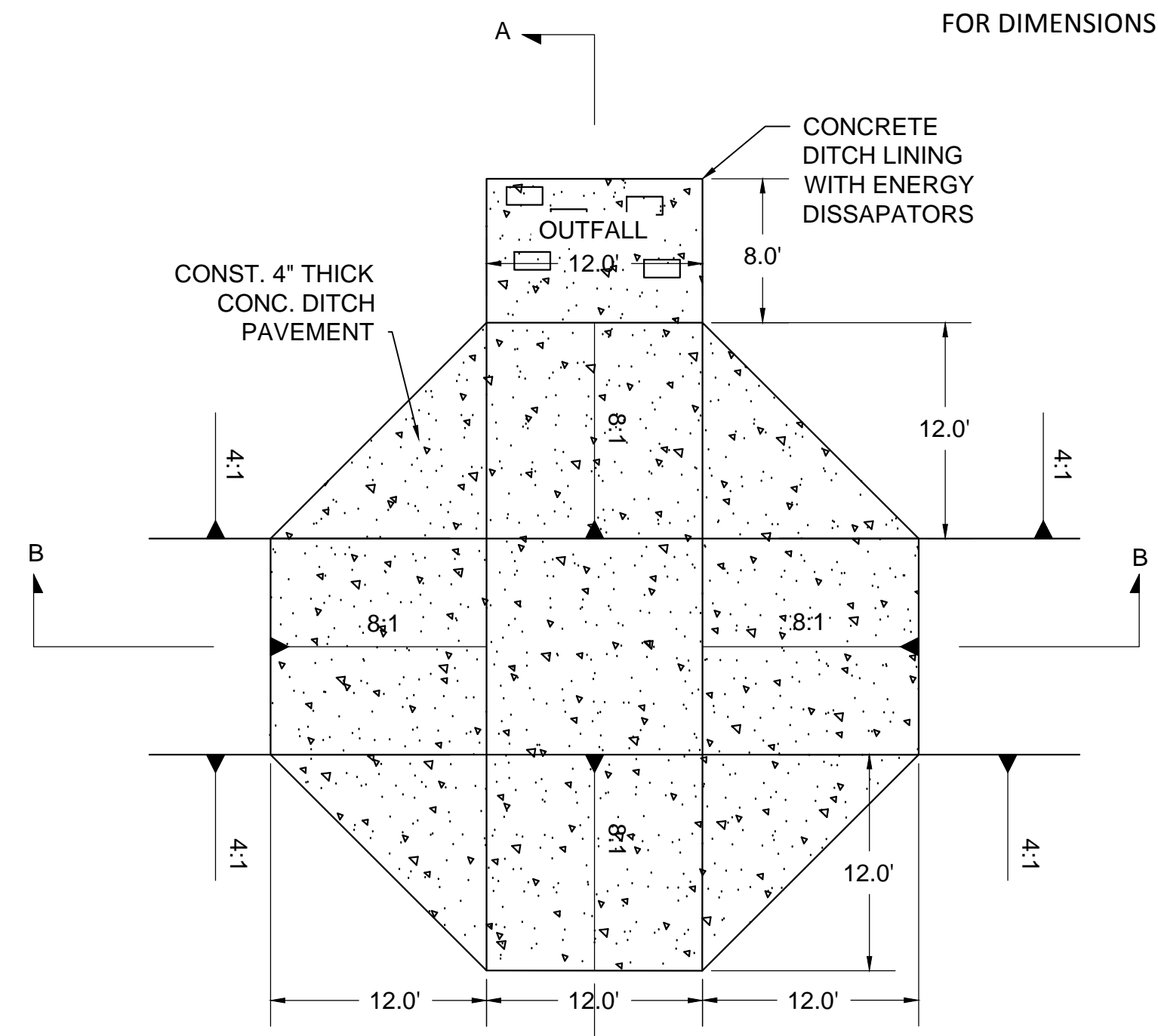


TOP VIEW - SINGLE PIPE

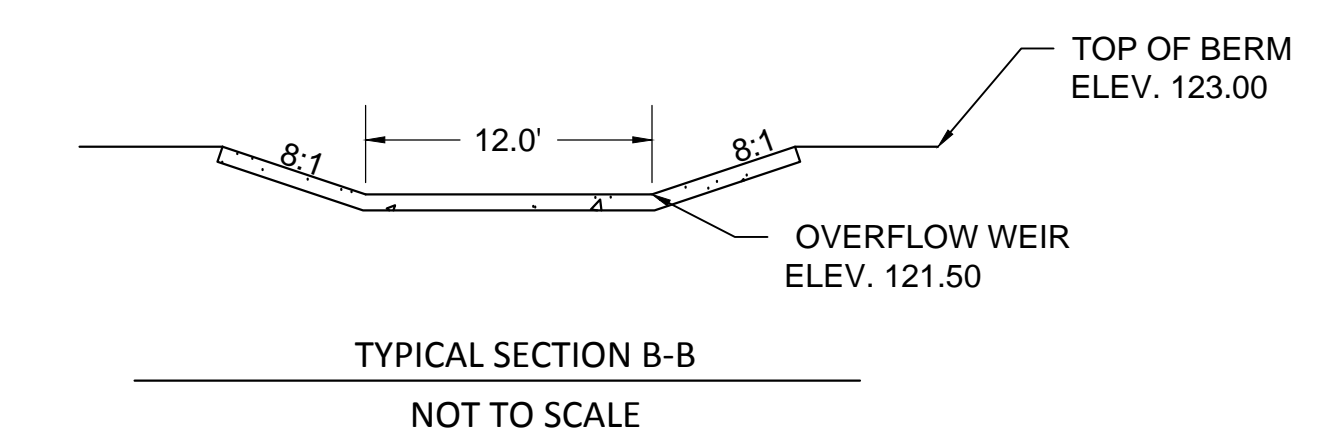
**NOTE:**  
CONTRACTOR SHALL PERMANENTLY SET THE BRASS DISK BENCHMARK ON THE TOP OF THE CONTROL STRUCTURE WITH NON SHRINK GROUT. ELEVATION TO BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR AND RECORDED ON THE AS-BUILT DOCUMENTS.



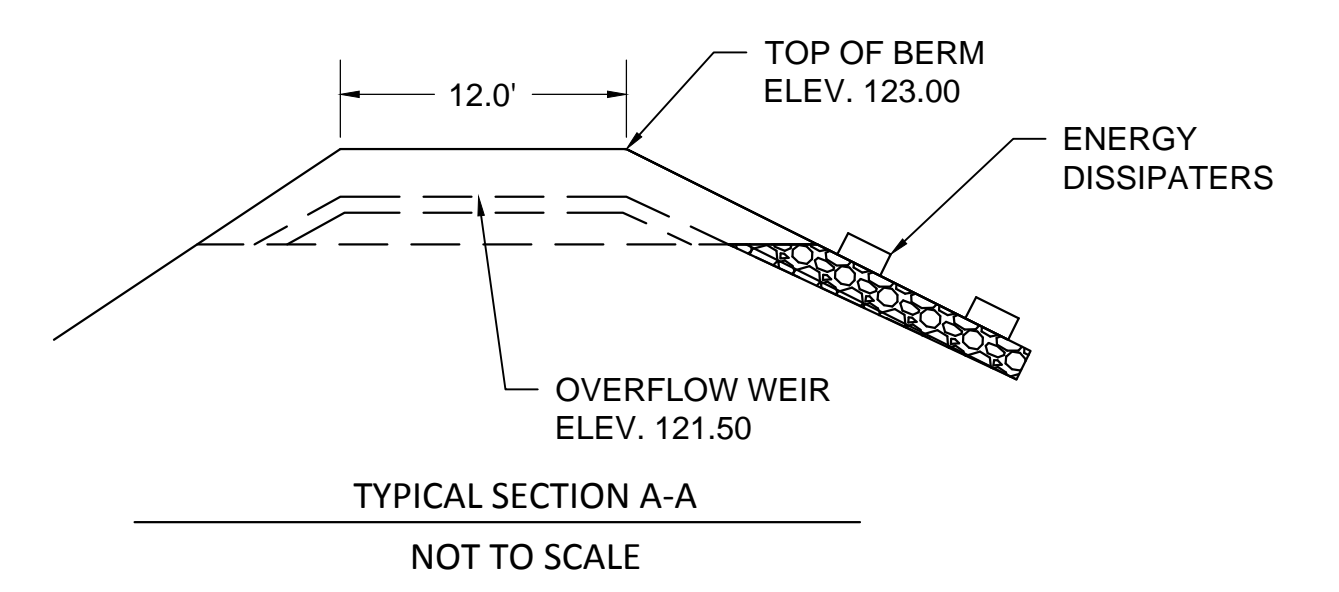
PLAN  
POND CONTROL  
STRUCTURE DETAIL  
(S-42)  
NOT TO SCALE



EMERGENCY OVERFLOW WEIR  
NOT TO SCALE



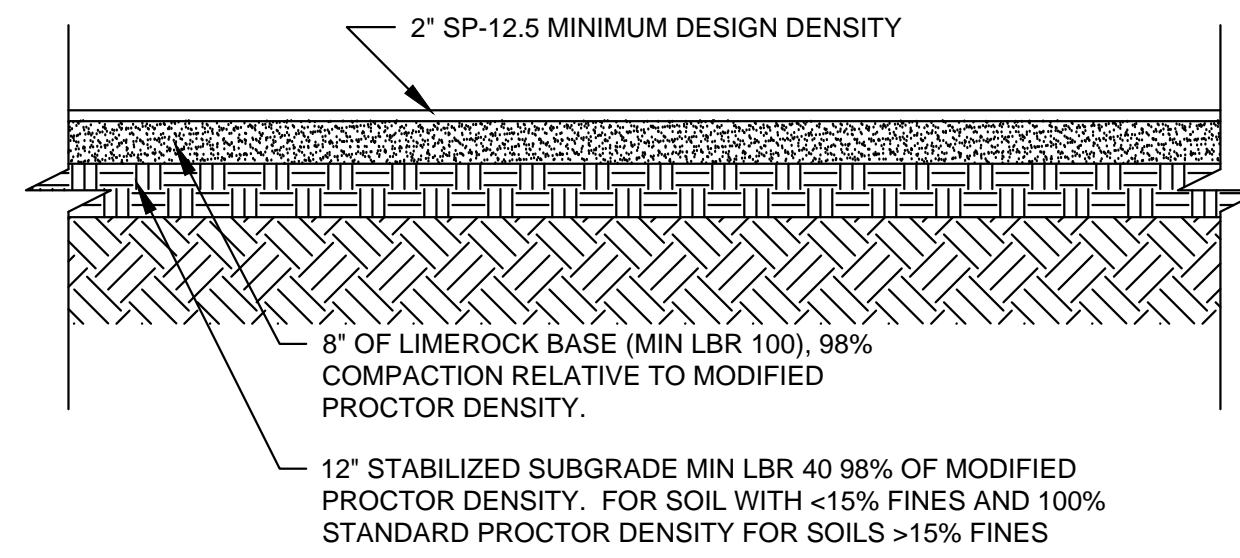
TYPICAL SECTION B-B  
NOT TO SCALE



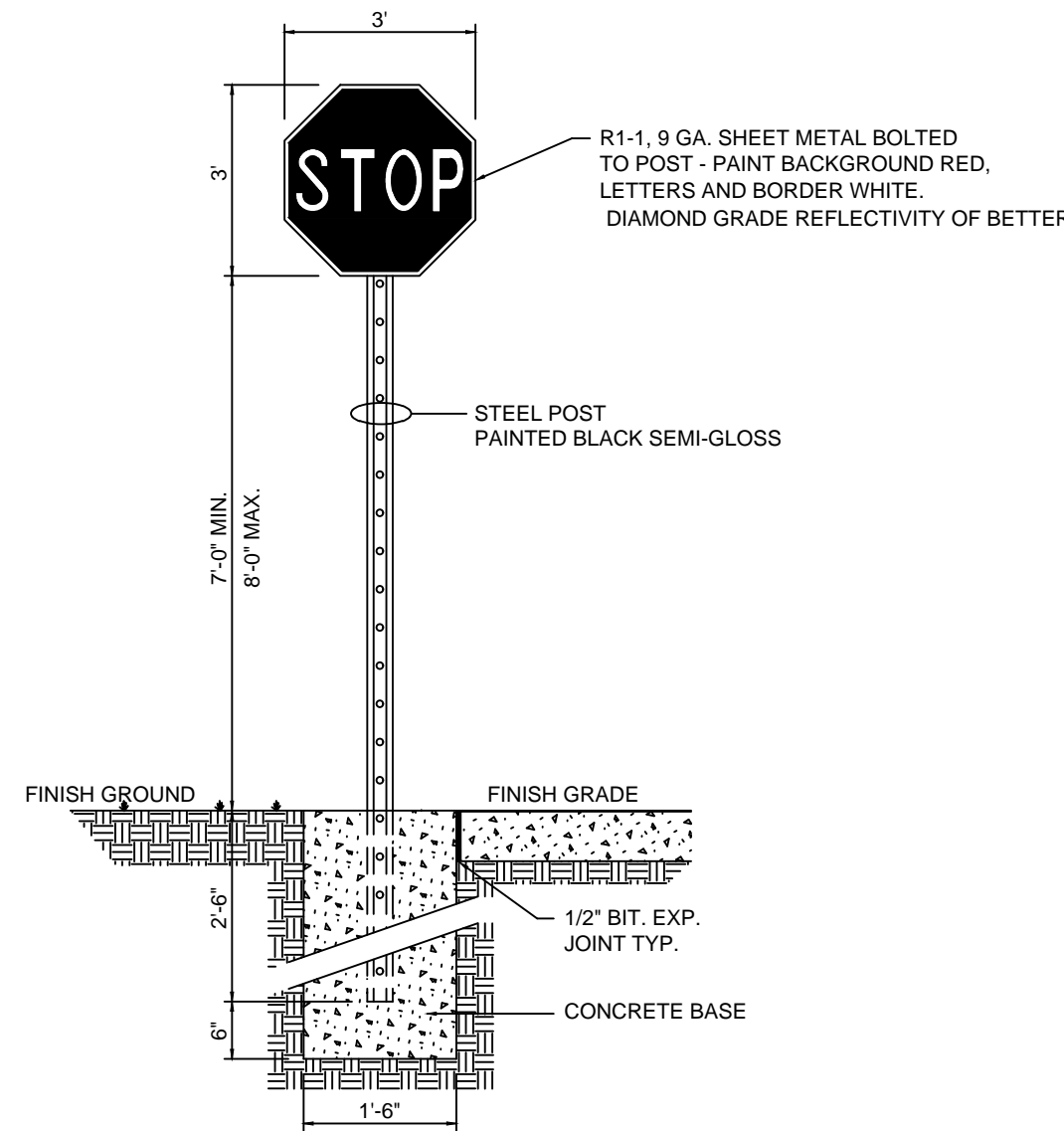
TYPICAL SECTION A-A  
NOT TO SCALE

100% CONFORMED DOCUMENTS FOR		CONSTRUCTION DETAILS	
HEARTWOOD SUBDIVISION		ALACHUA COUNTY, FL	
DRMP, Inc.		DAVID C. SOWELL, P.E. FLORIDA P.E. NO.: 68531	
PROJECT NO.: 15-0415.000		SCALE: AS SHOWN	
DATE: FEBRUARY 1, 2018		DRAWING: C7.01	
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
DS	JW	DS	CT
NO.	DATE	DESCRIPTION	BY

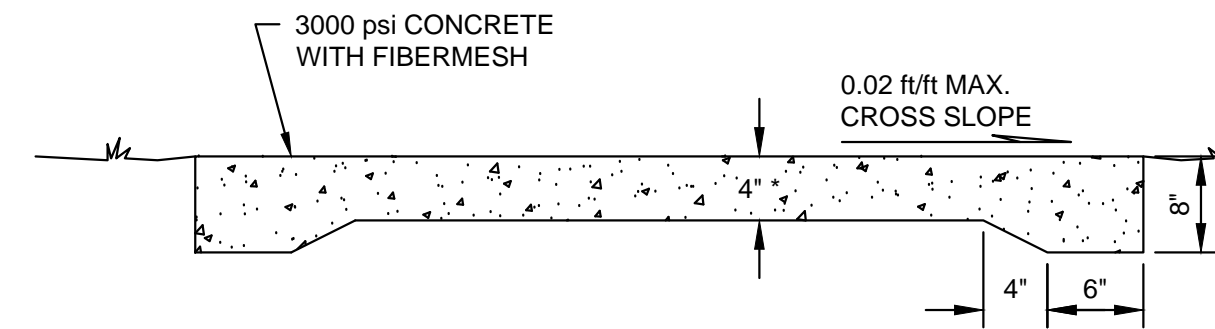




TYPICAL PAVEMENT SECTION  
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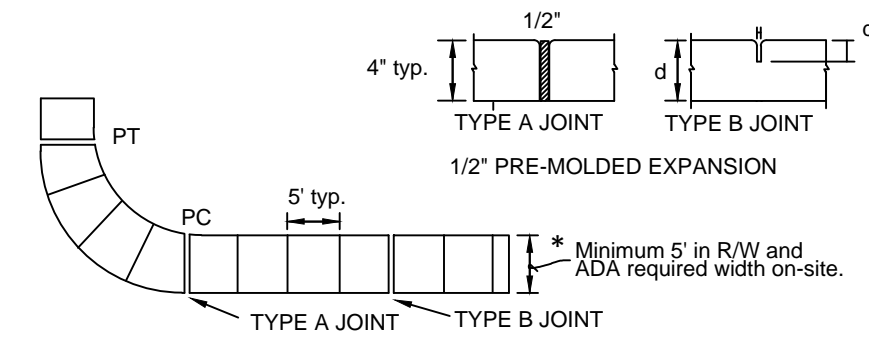


TYPICAL STOP SIGN DETAIL  
NOT TO SCALE



\* CONCRETE SHALL BE 6" THICK WHERE VEHICLES ARE ANTICIPATED TO CROSS (DRIVEWAYS)

TYPICAL SIDEWALK CONSTRUCTION DETAIL  
NOT TO SCALE

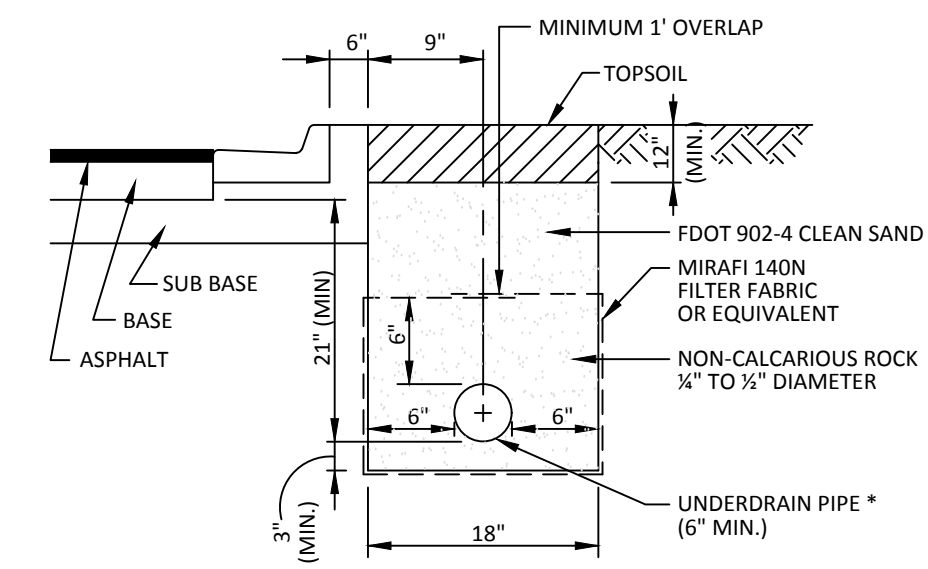


SIDEWALK CONSTRUCTION

- Sidewalks, bike paths, ramps, and driveway aprons shall be constructed of plain portland cement concrete with a maximum slump of 3 inches, a minimum developed compressive strength of 3,000 p.s.i. in 28 days, and a minimum uniform thickness of 4 inches where intended solely for pedestrian traffic, and 6 inches thick where motor vehicles are likely to cross.
- Sidewalks and bike paths shall be placed parallel to, and one foot within the right-of-way line except that the may approve deviations to save specimen trees provided that the pavement remains within the right-of-way, or adjacent easement dedicated for sidewalk use, is not diminished in width, and remains at least 3 feet from the edge of the street pavement, unless otherwise approved.
- The top of the concrete shall be at an elevation no lower than the crown of the adjacent roadway, and no higher than 6 inches above the crown unless approved to make a more natural transition with the adjacent land. Under no circumstances will the sidewalk exceed ADA maximum grades.
- Isolation joints (TYPE A Joints) shall be provided between existing slabs or structures and fresh concrete, to separate pedestrian sections from sections which will encounter vehicle traffic, to separate fresh placement from concrete which has set for more than 60 minutes, and no farther apart than 30 feet in sidewalks and bike paths. Joint material shall be as specified in FDOT Standards and Specifications and shall be rubber, plastic or other approved non-biodegradable elastomeric material. Wood is prohibited.
- Control joints (TYPE B Joints) shall be tooled into the fresh concrete, or saw-cut within 24 hours of placement, to a depth equal to 1/4 the slab thickness and spaced apart a distance equal to the width of the slab or 5 feet, whichever is greatest.
- The slab surface shall be broom finished to be slip resistant, and shall match as closely as possible the finish of existing adjacent slabs and all edges shall be tooled to eliminate sharp corners.
- The bearing subsurface shall have all organic, loose, and deleterious matter removed, and the remaining clean soil shall be smooth, sound, and solid. Any fill material shall be compacted with a vibratory or impact compaction machine in maximum 12 inch lifts or compacted with a hand tamper in maximum 4 inch lifts. The shall require a compaction test for each lift if the total filled section is more than 12 inches deep or if the subsurface has been disturbed more than 12 inches deep. Where such test is required, the results shall show a minimum Proctor field density of 95 percent.
- All concrete work in the right-of-way shall be inspected after the subsoil is prepared and the forms are set, but before the concrete placement begins.
- The contractor shall be responsible for protecting the finished slab from all damage and vandalism until the City accepts or approves the slab.
- Sidewalks located within the right-of-way shall not be tinted, stained, colored, or coated, unless approved by the engineer.
- All forms shall be removed prior to acceptance or approval and the disturbed ground shall be back-filled, re-graded, and sodded so that the wear surface of the concrete is reasonably flush with the adjacent grade.
- The city may require additional joints around utility structures located within the sidewalk.

\* MAXIMUM CROSS SLOPE SHALL NOT EXCEED 2%, ALL SIDEWALKS AND CROSSWALK MUST MEET CURRENT ADA REQUIREMENTS.

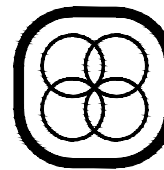
TYPICAL SIDEWALK CONSTRUCTION REQUIREMENTS  
NOT TO SCALE



\* NOTE:  
A 2' LENGTH OF NEW PERFORATED PIPE SHALL BE USED AT THE CONNECTION TO THE DRAINAGE STRUCTURE

FIELD CONDITIONS REQUIRING UNDERDRAINS ARE NOT EXPECTED TO BE ENCOUNTERED ACCORDING TO THE GEOTECHNICAL REPORT. HOWEVER, THEY MAY BE REQUIRED BY THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT IF UNANTICIPATED CONDITIONS MERITING THEIR USE ARE DISCOVERED DURING CONSTRUCTION.

ROADWAY UNDERDRAIN

DESIGNED BY	DS	DRAWN BY	JW	CHECKED BY	DS	APPROVED BY	CT
NO.							
DATE							
DESCRIPTION							
<b>CONSTRUCTION DETAILS</b>							
100% CONFORMED DOCUMENTS FOR				HEARTWOOD SUBDIVISION			
				ALACHUA COUNTY, FL			
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