

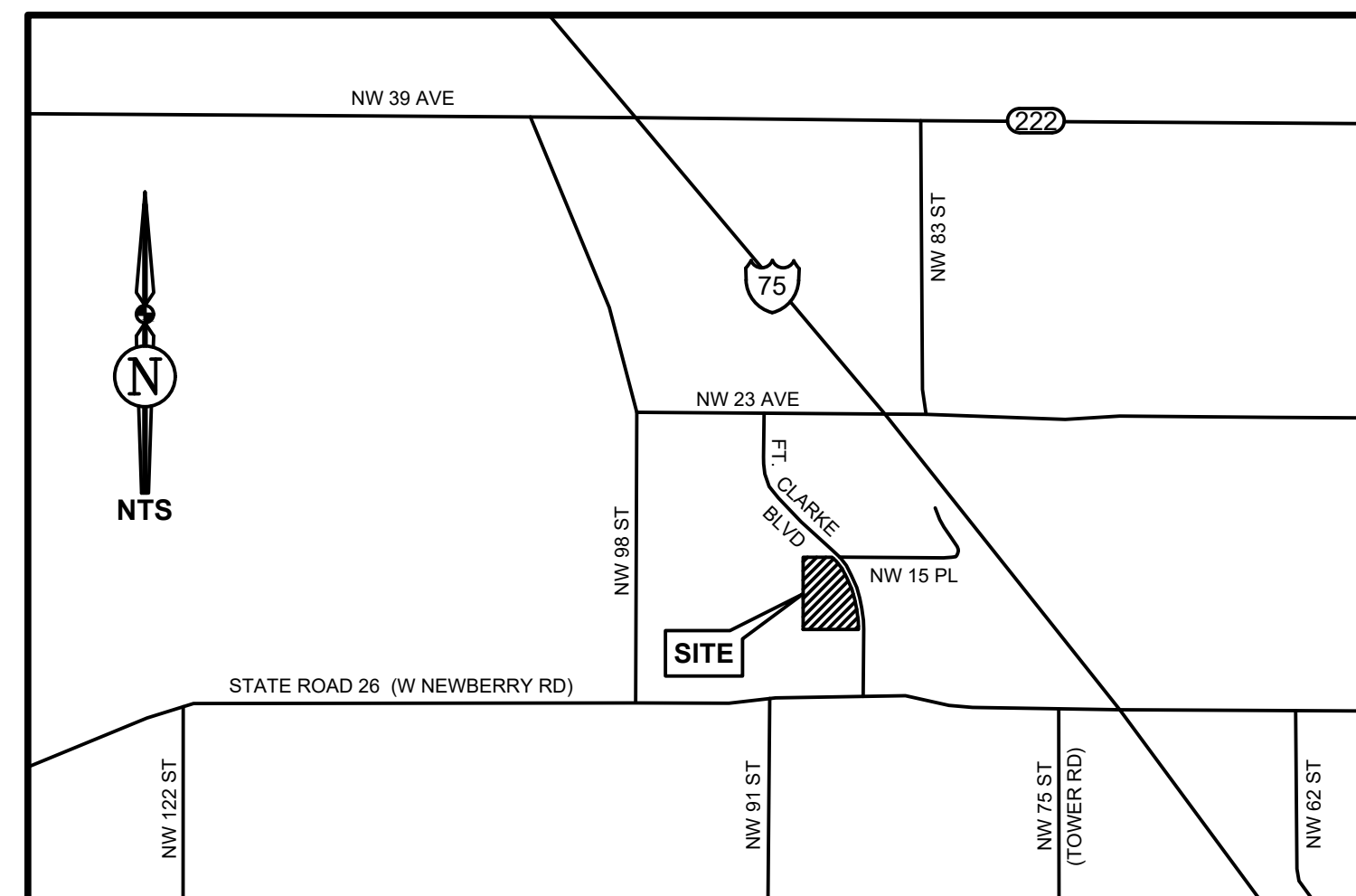
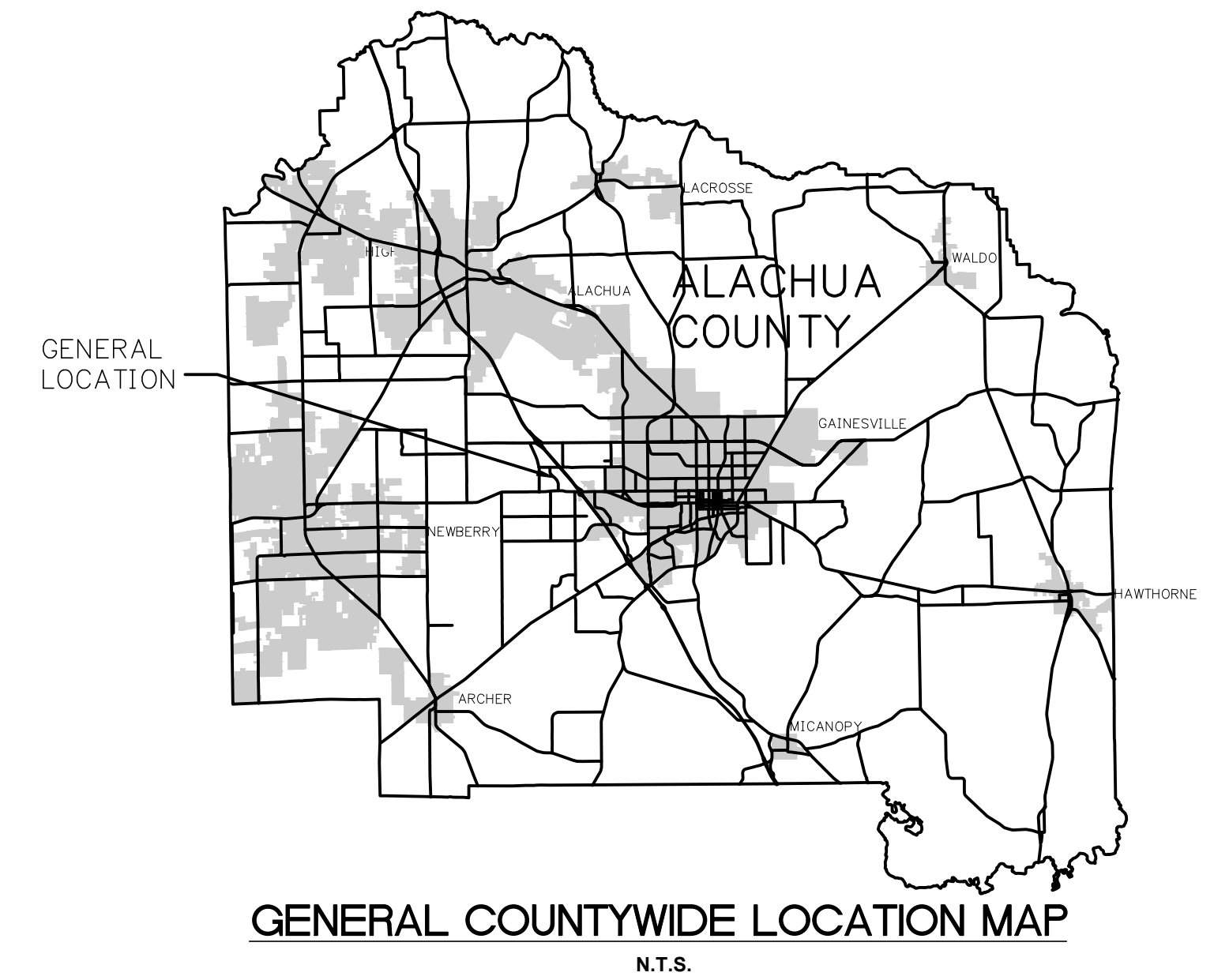
**GENERAL DEVELOPMENT INFORMATION**

1. **DEVELOPMENT INFORMATION**
  - A. **PROJECT TITLE:** LULLWATER @ FT. CLARKE
  - B. **PROJECT DESCRIPTION:** A TND WITH APPROXIMATELY 299 MULTI-FAMILY UNITS AND 24,900 SF OF NON-RESIDENTIAL DEVELOPMENT LOCATED ON 25.6 AC WITH ASSOCIATED INFRASTRUCTURE IMPROVEMENTS
  - C. **PROJECT ADDRESS:** 1404 FT. CLARKE BLVD. GAINESVILLE, FL 32606
  - D. **TAX PARCEL NO.:** 06326-001-000
  - E. **SEC/TOWN/RANGE:** 32/09/19
  - F. **ZONING:** R-2A
  - G. **FUTURE LAND USE:** MEDIUM-HIGH RESIDENTIAL
2. **LOCATION OF SUBJECT PROPERTY:** SEE VICINITY MAP THIS SHEET
3. **CONTACT INFORMATION**
  - A. **PROPERTY OWNER/DEVELOPER:** THE GAINESVILLE CHURCH, INC.
  - B. **CONSULTANT ENGINEER/PLANNER:** JBROWN PROFESSIONAL GROUP INC., CONTACT: LOGAN B. PETERS, PE, (352)-375-8999
  - C. **SURVEYOR:** JBROWN PROFESSIONAL GROUP INC., CONTACT: TROY WRIGHT, (352)-375-8999
4. **ADDITIONAL DESIGN DATA**
  - A. **OPEN SPACE CALCULATIONS:** SEE SHEET C3.0
    - a. OPEN SPACE REQUIRED = 1,116,763 SF x 10% = 111,676.3 SF (2.56 AC)
    - b. OPEN SPACE PROVIDED = 112,289 SF (2.58 AC)
  - B. **TREE CANOPY REQUIREMENT:** SEE SHEET C3.1
 

EXISTING TREE CANOPY CALCULATIONS WERE PERFORMED PER ULDC SECTION 406.12(a) 3,4,5(A-K) UTILIZING A 2019 DRONE IMAGE COMBINED WITH THE RECENT TOPOGRAPHIC TREE SURVEY TO IDENTIFY THE BEST REPRESENTATION OF THE EXISTING TREE CANOPY. THE EXISTING TREE CANOPY IS DELINEATED ON THE TREE CANOPY PLAN.

    - a. TOTAL SITE AREA = 1,116,763 SF (25.64 AC)
    - b. REGULATED TREE CANOPY = 736,839 SF (16.92 AC)
    - c. REQUIRED MINIMUM TREE CANOPY IS 5% OF EXISTING = 736,839 SF x 5% = 36,842 SF (0.85 AC)
    - d. ESTIMATED EXISTING TREE CANOPY TO BE PRESERVED = 122,360 SF (2.81 AC)
    - e. PERCENT CANOPY RETAINED = 2.81 AC / 16.92 AC x 100 = 16.61%
    - f. REQUIRED MINIMUM 30% MATURE TREE CANOPY OVER SITE (@ 20 YEARS) = 1,116,763 SF x 30% = 335,028 SF (7.69 AC)
    - g. TREE CANOPY CALCULATIONS WILL BE PRESENTED ON THE LANDSCAPING PLAN, PROVIDED WITH THE FINAL DRC SUBMITTAL TO DOCUMENT THE 30% MATURE TREE CANOPY REQUIREMENT.
  - E. **BUFFER AND SCREENING:** SEE SHEET C4.0
    - a. **PROPERTY BOUNDARY BUFFER:** PER 407.70(b)(2)a.4, A 50 FT MEDIUM DENSITY LANDSCAPED BUFFER IS REQUIRED BETWEEN THE SUBJECT PROPERTY AND THE ADJACENT SINGLE-FAMILY RESIDENTIAL PROPERTIES TO THE WEST AND SOUTH. THE BUFFER REQUIRES PLANTINGS PER TABLE 407.43.2 FOR A MEDIUM-DENSITY BUFFER.
    - b. THE LANDSCAPE PLANS SHALL BE INCLUDED WITH THE FINAL DEVELOPMENT PLAN AND WILL DOCUMENT THE LANDSCAPING PLANTINGS FOR CONFORMANCE TO THE BUFFER REQUIREMENTS IN ULDC 407.70.

# FINAL DEVELOPMENT PLANS OF LULLWATER AT FORT CLARKE BLVD FOR FICKLING AND CO.



LULLWATER AT FORT CLARKE BLVD	
SHEET INDEX	
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C0.0	COVER SHEET
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C0.2	STORMWATER POLLUTION PREVENTION PLAN
C1.0	DEMOLITION AND TREE PROTECTION PLAN (SOUTH)
C1.1	DEMOLITION AND TREE PROTECTION PLAN (NORTH)
C1.2	EROSION AND SEDIMENTATION CONTROL PLAN (SOUTH)
C1.3	EROSION AND SEDIMENTATION CONTROL PLAN (NORTH)
C2.0	MASTER DEVELOPMENT PLAN
C2.1	SIGNAGE AND STRIPING PLAN
C2.2	DIMENSION PLAN (SOUTH WEST)
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C2.6	DIMENSION PLAN (CENTRAL NORTH)
C2.7	DIMENSION PLAN (NORTH)
C3.0	OPEN SPACE PLAN
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C4.0	PRE-DEVELOPMENT MASTER DRAINAGE PLAN
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C4.2	DRAINAGE PLAN - BASIN 1
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C5.0	TYPICAL ROADWAY SECTIONS
C5.1	ROADWAY PLAN AND PROFILE
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C5.3	ROADWAY PLAN AND PROFILE
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C6.1	UTILITY CROSSING PLAN (SOUTH)
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C7.0	DETAILS AND NOTES
SUR 1-7	BOUNDARY AND TOPOGRAPHIC SURVEY
A2.1-2.8	ARCHITECT DESIGN CONCEPTS
LA-0.0	OVERALL LANDSCAPE PLAN
LD-01	LANDSCAPE DETAILS & SCHEDULE

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
FLORIDA LICENSE NO. 88516

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

THIS DOCUMENT IS ISSUED FOR THE PURPOSE OF REVIEW ONLY AND IS NOT INTENDED FOR FINAL PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES.



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SHEET TITLE:  <b>COVER SHEET</b>	CLIENT: <b>FICKLING AND CO.</b> MACON, GA	PROJECT: <b>LULLWATER AT FORT CLARKE BLVD</b>
DATE: <b>DECEMBER 2022</b>	PROJECT NO: <b>403-19-01</b>	SHEET NO: <b>C0.0</b>

GENERAL CONSTRUCTION NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN THE WORK LIMITS OF ALL IMPROVEMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES DURING CONSTRUCTION. IN THE EVENT THAT A UTILITY CONFLICT OCCURS, CONTRACTOR SHALL NOTIFY THE ENGINEER AND UTILITY PROVIDER TO COORDINATE REMEDIAL ACTION.
2. THE ALACHUA COUNTY PUBLIC WORKS SHALL BE NOTIFIED 24 HOURS IN ADVANCE FOR INSPECTION OF PERTINENT STAGES OF CONSTRUCTION WITHIN THEIR RESPECTIVE R/W SUBGRADE PREPARATION, LIMEROCK PLACEMENT, INSPECTION OF THE SWEPT LIMEROCK BASE PRIOR TO THE PLACEMENT OF ASPHALT, AND OTHERS AS REQUIRED FOR APPROVAL.
3. IF UNDERDRAINS ARE NECESSARY, THE ALACHUA COUNTY PUBLIC WORKS, DURING FIELD INSPECTION, SHALL DETERMINE THE EXACT LOCATION AND REQUIREMENTS. THE CONTRACTOR SHALL INSTALL UNDERDRAINS AS REQUIRED.
4. WHERE SUBSOIL EXCAVATION IS REQUIRED, THE LIMITS OF EXCAVATION SHALL BE A MINIMUM OF 24" BELOW THE LIMEROCK BASE, EXACT LOCATIONS OF SUBSOIL EXCAVATION SHALL BE AS DIRECTED BY THE ALACHUA COUNTY PUBLIC WORKS OR THE GEOTECHNICAL ENGINEER.
5. CONTRACTOR SHALL DISPOSE OF SUBSOIL EXCAVATED MATERIALS (UNSUITABLE FOR FILL) OFF SITE TO A PERMITTED LOCATION OR PER AN APPROVED DISPOSAL PLAN AND LOCATION SITE.
6. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ALL FOREIGN DEBRIS AND MATERIAL OFFSITE. DISPOSAL METHODS AND LOCATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND REQUIREMENTS.
7. THE CONTRACTOR SHALL FURNISH/INSTALL ALL STREET SIGNS. ALL ASSOCIATED COSTS WILL BE BORNE BY THE DEVELOPER. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL REQUIRED STRIPING, STOP BARS, ETC.
8. ALL PAVEMENT CUT/REPAIR WILL BE MADE THE FULL ROAD WIDTH AT LEAST 6 FT WIDE AND REQUIRES APPROVAL FOR CUT AND INSPECTION OF THE REPAIR BY THE ALACHUA COUNTY PUBLIC WORKS.
9. DRIVEWAYS SHALL BE CONFIGURED TO ENSURE NO PORTION OF CURB INLET FALLS WITHIN DRIVEWAY AND/OR DRIVEWAY TAPER.
10. DRIVEWAYS SHALL BE DESIGNED IN ACCORDANCE WITH THE MOST RECENT FDOT INDEX AND COUNTY STANDARDS. DRIVEWAYS WILL MEET SETBACK REQUIREMENTS FROM INTERSECTIONS (SOFT) AND UTILITY INFRASTRUCTURE (SFT MIN.). DRIVEWAYS WITH SIDEWALK CROSSING SHALL MEET CURRENT ADA STANDARDS FOR THE LENGTH OF THE SIDEWALK CROSSING.
11. CONCRETE SIDEWALK CROSSING SHALL BE A MINIMUM OF 4 INCHES THICK AND HAVE A 3,000 PSI COMPRESSIVE STRENGTH.
12. ALL PROPOSED SIDEWALK SEGMENTS NOT ADJACENT TO LOT DRIVEWAYS WILL BE CONSTRUCTED PRIOR TO ALACHUA COUNTY PUBLIC WORKS ACCEPTANCE OF SITE IMPROVEMENTS OR BONDED IN-LIEU OF CONSTRUCTION IN A FORM ACCEPTABLE TO THE ALACHUA COUNTY PUBLIC WORKS.
13. EXISTING TOPOGRAPHY INFORMATION DEPICTED IS BASED ON THE PROJECT TOPOGRAPHIC SURVEY CONDUCTED BY FLOWERS SURVEYING AND MAPPING ON 09/25/2019. THE CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATION GRADES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT WILL AFFECT FINISH GRADE DESIGN FOR PROPER RUNOFF CONDITIONS PRIOR TO CONSTRUCTION. JBPRO WILL ASSIST THE CONTRACTOR IN REVISING ANY GRADING DISCREPANCIES PRIOR TO CONSTRUCTION TO ASSURE PROPER GRADING AND RUNOFF CONDITIONS RESULT UPON COMPLETION OF CONSTRUCTION.
14. ALL STRUCTURES SHALL ADHERE TO THE 2020 FLORIDA BUILDING CODE(S), THE 2020 NATIONAL ELECTRIC CODE AND THE 2020 FLORIDA FIRE PREVENTION CODE, AS AMENDED.
15. ALL INTERSECTIONS OF PEDESTRIAN SIDEWALKS AND ROADWAYS SHALL COMPLY WITH THE 2020 FLORIDA ACCESSIBILITY CODE. DETECTABLE WARNINGS AND CURB RAMPS SHALL BE USED.
16. PAD ELEVATIONS REFER TO THE TOP OF A COMPACTED BUILDING PAD, SPECIFIED TO BE 8" BELOW FFE PER HOME BUILDERS REQUIREMENTS.
17. MIN FFE REFERS TO THE MINIMUM ELEVATION OF THE BUILDING FOUNDATION.

PAVING, GRADING AND DRAINAGE SPECIFICATIONS

- 1. ALL DRAINAGE CONSTRUCTION, INCLUDING MATERIALS, CONSTRUCTION TECHNIQUES, AND TECHNICAL STANDARDS, SHALL BE IN ACCORDANCE WITH THE FDOT FY 2020-21 STANDARD PLANS.
2. ALL AREAS OF NEW CONSTRUCTION SHALL BE CLEANED AND GRUBBED. TOP SOIL REMAINING ONSITE MAY BE STOCKPILED FOR FINE GRADING IN LANDSCAPED AREAS, IF SUITABLE. THE CONTRACTOR SHALL FURNISH ALL FILL REQUIRED AND DISPOSE OF ALL EXCESS OR UNSUITABLE MATERIAL OFFSITE IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS. TREES TO REMAIN SHALL BE PROTECTED PRIOR TO STARTING CONSTRUCTION AND SHALL BE PROTECTED THROUGHOUT SITE CONSTRUCTION.
3. ALL PROPOSED UNDERGROUND UTILITY INSTALLATIONS WITHIN THE LIMITS OF ROADWAY SUBGRADE, INCLUDING STORMWATER, POTABLE WATER, WASTEWATER, GAS, ELECTRICAL CONDUIT, AND SLEEVES FOR FUTURE UTILITIES, SHALL BE INSTALLED PRIOR TO STABILIZATION OF THE ROADWAY SUBGRADE.
4. ALL NEW ASPHALT PAVEMENT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
A. EARTHWORK: FILL MATERIALS SHALL CONFORM TO AASHTO SOIL GROUPS A-1, A-2, A-3, OR A-4 AND SHALL BE PLACED IN 6" - 12" LOOSE LIFTS AND COMPACTED TO 95% DENSITY USING MODIFIED PROCTOR METHOD (AASHTO T-180).
B. SUBSOIL EXCAVATION: WHERE SUBSOIL EXCAVATION IS REQUIRED, UNSUITABLE MATERIALS SHALL BE REMOVED TO A DEPTH OF 24" BELOW THE LIMEROCK BASE AND BACKFILLED WITH CLEAN FILL.
C. STABILIZED SUBGRADE: ALL STABILIZED MATERIAL SHALL CONFORM TO SECTION 914 AND PLACED ACCORDING TO SECTION 160 IN ONE 12" MINIMUM COMPACTED LIFT. SUBGRADE SHALL BE STABILIZED TO A MINIMUM LBR VALUE OF 40 PER DESIGN SECTION.
D. BASE COURSE: ALL MATERIAL SHALL BE LIMEROCK CONFORMING TO SECTION 911 AND PLACED ACCORDING TO SECTION 200 IN A SINGLE OR TWO EQUAL COMPACTED LIFTS (PER DESIGN SECTION). BASE MATERIAL SHALL BE COMPACTED TO 98% DENSITY BY MODIFIED PROCTOR METHOD (AASHTO T-180). THE PRIME COAT SHALL CONFORM TO SECTION 300.
E. ASPHALTIC CONCRETE: ALL ASPHALTIC CONCRETE MATERIAL SHALL BE TYPE SP STRUCTURAL COURSE (TYPE & THICKNESS PER DESIGN SECTION) AND SHALL CONFORM TO SECTION 334. ALL ASPHALTIC CONCRETE CONSTRUCTION SHALL CONFORM TO SECTION 330.
5. ALL ASPHALTIC CONCRETE MIX DESIGN AND PORTLAND CEMENT MIX DESIGN SHALL BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION. ASPHALT MIX DESIGN MUST BE APPROVED BY THE ALACHUA COUNTY. DENSITY REPORTS AND ASPHALT MIX DESIGN REPORT SHALL BE SUBMITTED TO THE ALACHUA COUNTY FOR APPROVAL PRIOR TO PAVING BEING PERFORMED.
6. ALL CONCRETE USED FOR CONSTRUCTION OF DRAINAGE STRUCTURES, SIDEWALKS, SPILLWAYS, CURBING, ETC. SHALL BE CLASS 1 CONFORMING TO SECTION 347.
7. CONCRETE SIDEWALKS AND DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 522.
8. CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN CONFORMANCE TO SECTION 520.
9. REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO SECTION 449-4.
10. HIGH DENSITY POLYETHYLENE (HDPE) SHALL CONFORM TO SECTION 948-2.3.
11. POLYPROPYLENE (PP) PIPE SHALL CONFORM TO SECTION 948-7.
12. HDPE, PP, AND RCP ARE INTERCHANGEABLE STORM PIPE MATERIALS AS APPROVED BY COA.
13. ALL SLOPES OF 4:1 OR GREATER SHALL BE SODDED.
14. ALL TESTING REPORTS AND ASPHALT DESIGN REPORTS MUST BE SUBMITTED FOR APPROVAL BY THE ALACHUA COUNTY PRIOR TO ANY PAVEMENT INSTALLATION.

STORMWATER MAINTENANCE PLAN

- 1. MAINTENANCE RESPONSIBILITY:
FICKLING & CO. SHALL BE THE ENTITY RESPONSIBLE FOR THE MAINTENANCE OF THE MASTER STORMWATER MAINTENANCE PLAN. THE ALACHUA COUNTY PUBLIC WORKS SHALL BE THE ENTITY RESPONSIBLE FOR MAINTAINING THE STORMWATER MANAGEMENT SYSTEM WITHIN THE CITY RIGHT-OF-WAY AND DESIGNATED DRAINAGE EASEMENTS.
2. MAINTENANCE PLAN NOTES:
A. STORM PIPES AND DRAINAGE STRUCTURES SHALL BE INSPECTED SEMI-ANNUALLY FOR STRUCTURAL SOUNDNESS AND OPERATIONAL FUNCTION. ANY DEFECTS DISCOVERED SHOULD BE REPAIRED TO ORIGINAL DESIGN CONDITION.
B. THE BASIN AND STORMPIPES SHALL BE CLEANED OUT ANNUALLY OF ANY ACCUMULATED SEDIMENTATION BUILDUP. IF THE BASINS OR STORMPIPES ARE SHOWING EXCESSIVE SEDIMENTATION ACCUMULATION, THE BASIN BOTTOMS, AND STORMPIPES SHALL BE CLEANED OUT MORE OFTEN AS THE CONDITION DICTATES.
C. BASIN SIDE SLOPES SHALL BE MAINTAINED WITH A GOOD STAND OF GRASS. SEASONAL GRASSES SHALL BE PLANTED TO AVOID EROSION (WINTER RYE, SUMMER MILLET, ETC.). LANDSCAPE PLANTINGS WITHIN THE BASIN SHALL BE MAINTAINED PROPERLY.
D. STORMWATER MANAGEMENT BASINS THAT DO NOT DRAWDOWN PROPERLY AND MAINTAIN STANDING WATER FOR AN EXTENDED PERIOD OF TIME MAY REQUIRE REMEDIAL ACTION. THE ENGINEER SHALL BE NOTIFIED TO HELP COORDINATE REMEDIAL ACTION IN THE EVENT THIS OCCURS.
E. ANY LANDSCAPING PROVIDED FOR EROSION CONTROL SHALL BE MAINTAINED IN A SOUND CONDITION AT ALL TIMES AND SHALL BE REMOVED OR REPLACED IF NOT FUNCTIONING PROPERLY.
F. TREES AND SHRUBS SHALL NOT BE PLANTED WITHIN THE FOREBAY AREAS OF THE BASIN OR WITHIN 25' OF A CONTROL STRUCTURE. PLANTS THAT GROW WITHIN THESE AREAS MAY BE REMOVED TO RETAIN THE INTEGRITY OF THE STORMWATER BASIN FUNCTIONALITY.
G. ANY REPLACEMENT PLANTINGS SHALL BE NATIVE VEGETATION.
H. PERMANENT IRRIGATION IS NOT PROPOSED WITHIN THE BASIN. TEMPORARY IRRIGATION MAY BE USED TO ESTABLISH NEW PLANTINGS.
I. THE STORMWATER MANAGEMENT AREA MAY BE TREATED FOR WEEDS WITH THE USE OF HERBICIDES. PESTICIDES MAY ALSO BE USED. PESTICIDES SHOULD ONLY BE USED IF A PEST IS IDENTIFIED AS CAUSING A DECLINE IN THE HEALTH OF THE BASIN LANDSCAPING. HERBICIDE AND PESTICIDE USE SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS AND SHALL ADHERE TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
J. MAINTENANCE SHALL INCLUDE THE REMOVAL AND REPLACEMENT OF VEGETATION WHICH IS DEAD OR DYING OR VEGETATION TO BE A DETRIMENT TO THE FUNCTIONING OF THE STORMWATER MANAGEMENT AREA.
K. IN THE EVENT A SINKHOLE OR OTHER GEOLOGICAL FEATURE DEVELOPS, THE OWNER SHALL CONTRACT WITH A CIVIL ENGINEERING OR GEOTECHNICAL ENGINEERING CONSULTING FIRM TO DIRECT THE OWNER TO AN APPROPRIATE REMEDIATION CONSTRUCTION TECHNIQUE TO PLUG OR STABILIZE THE SINKHOLE AND PREVENT GROUND WATER CONTAMINATION. THE REMEDIATION CONSTRUCTION TECHNIQUES SHALL FOLLOW GENERALLY ACCEPTED METHODOLOGIES FOR KARST FEATURE REPAIRS AS OUTLINED BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWD). THE SJRWD SHALL BE NOTIFIED OF ANY EVENT OCCURRING AND THE REMEDIATION MEASURES TAKEN TO CORRECT THE GEOLOGIC FEATURE.
L. ALL CONDITIONS OF THE SJRWD ENVIRONMENTAL RESOURCE PERMIT (ERP) SHALL BE ADHERED TO INCLUDING REQUIRED INSPECTIONS AND REPORTING.

NPDES EROSION AND SEDIMENTATION CONTROL PERMITTING NOTES

- 1. THE CONTRACTOR IS REQUIRED TO FILE THE FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION (FDEP) NOTICE OF INTENT (NOI) TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (CGP) (RULE 62-621.300(4), F.A.C.). CONSTRUCTION ACTIVITY SHALL NOT COMMENCE PRIOR TO OBTAINING AN ACKNOWLEDGEMENT LETTER FROM FDEP VERIFYING THE NOI IS COMPLETE. THE PROJECT IS COVERED BY THE GENERIC PERMIT AND THE PROJECT IDENTIFICATION NO. IS ESTABLISHED. CONTRACTOR SHALL PROVIDE THE EOR AND PROPERTY OWNER WITH A COPY OF THE FDEP ACKNOWLEDGEMENT LETTER VERIFYING COVERAGE.
2. THE CONTRACTOR SHALL ABIDE BY THE REQUIREMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND COP AT ALL TIMES THROUGHOUT CONSTRUCTION, AND UTILIZE ALL APPROPRIATE BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED TO PREVENT EROSION AND SEDIMENTATION DISCHARGE OFFSITE DURING CONSTRUCTION.
3. SEDIMENTATION AND EROSION CONTROL BMP'S SHALL BE IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENTATION CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2015, OR LATEST UPDATE. THE CONTRACTOR IS RESPONSIBLE TO UTILIZE ALL BMP'S AS NECESSARY THROUGHOUT CONSTRUCTION AND MAY UTILIZE MULTIPLE BMP'S OR OTHER MEANS AND METHODS DEEMED APPROPRIATE TO CONTROL EROSION AND SEDIMENTATION DISCHARGE.
4. THE CONTRACTOR SHALL UTILIZE A STATE OF FLORIDA CERTIFIED EROSION & SEDIMENTATION CONTROL (ESC) INSPECTOR DURING CONSTRUCTION TO ABIDE BY THE TERMS OF THE NOI PERMIT COVERAGE. AT A MINIMUM THE CERTIFIED INSPECTOR SHALL INSPECT ALL DISCHARGE POINTS, DISTURBED AREAS, MATERIAL STORAGE AREAS, STRUCTURAL CONTROLS AND CONSTRUCTION ENTRANCES/EXITS AT LEAST ONCE EVERY SEVEN (7) DAYS AND AFTER EVERY 1/2 INCH OR GREATER STORM EVENT. MAJOR OBSERVATIONS AND INCIDENTS OF NON-COMPLIANCE SHOULD BE RECORDED IN THE INSPECTION REPORT, AS WELL AS CORRECTIVE ACTIONS AND MAINTENANCE UNLESS ADVISED OTHERWISE. MAINTENANCE MUST OCCUR WITHIN SEVEN (7) CALENDAR DAYS OF THE INSPECTION. THESE INSPECTIONS MUST BE DOCUMENTED AND SIGNED BY A QUALIFIED INSPECTOR AS DEFINED BY THE COP. THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE COP WHEN THE REPORTS DO NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
5. UPON SATISFACTORY COMPLETION OF THE PROJECT CONSTRUCTION AND SITE STABILIZATION, THE CONTRACTOR SHALL FILE THE NPDES STORMWATER NOTICE OF TERMINATION (NOT) (RULE 62-621.300(6), F.A.C.) WITH FDEP. THE PERMIT COVERAGE IS DEEMED COMPLETE WHEN ALL SOIL DISTURBING CONSTRUCTION ACTIVITIES ARE COMPLETE AND STABILIZATION OF ALL DISTURBED OPEN AREAS HAS BEEN REACHED AT LEAST 70% VEGETATIVE COVER OR OTHER PERMANENT STABILIZATION IS IN PLACE. A COPY OF THE NOT SHALL BE PROVIDED TO THE EOR AND PROPERTY OWNER.

GEOTECHNICAL TESTING GENERAL NOTE

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING GEOTECHNICAL TESTING FOR EACH SPECIFIED DESIGN COURSE, SUBGRADE, BASE COURSE, AND PAVEMENT. TESTING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF ALACHUA PUBLIC SERVICES CONSTRUCTION AND INSPECTION STANDARDS AND FDOT CONSTRUCTION AND INSPECTION STANDARDS. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER AND THE ENGINEER FOR REVIEW AND APPROVAL OF CONFORMANCE TO DESIGN SPECIFICATIONS PRIOR TO CONSTRUCTION OF THE SUBSEQUENT COURSE.
2. IN THE EVENT THE CONTRACTOR PROCEEDS TO THE NEXT COURSE PRIOR TO SUBMITTING AND RECEIVING APPROVAL OF THE TEST RESULTS, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RECONSTRUCT ANY WORK NECESSARY TO BRING ALL DESIGN COURSES INTO COMPLIANCE WITH THE DESIGN SECTION SPECIFICATIONS.
3. TESTING REPORTS WITH GEOTECHNICAL TESTING RESULTS SHALL DENOTE THE TESTING LOCATIONS.
4. TESTING ALONG ROADWAYS SHALL BE PROVIDED AT A MINIMUM 200 LF SPACING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING GEOTECHNICAL TESTING FOR ALL MATERIAL USED ON RESIDENTIAL HOME SITES. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER AND THE ENGINEER FOR REVIEW AND APPROVAL.

REQUIRED SUBMITTALS

- 1. PRIOR TO CONSTRUCTION INSTALLATION OF SPECIFIC WORK SCOPE ITEMS THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTAL INFORMATION TO THE EOR FOR REVIEW AND APPROVAL. THESE SUBMITTALS SHALL INCLUDE SOURCE PROVIDER, MANUFACTURER LITERATURE, CUT SHEETS, DIMENSIONED DRAWINGS, FABRICATION DRAWINGS, SKETCHES, DETAILS AND ANY OTHER INFORMATION NECESSARY FOR THE EOR TO REVIEW AND APPROVE AS TO COMPLIANCE WITH THE DESIGN DRAWINGS AND SPECIFICATIONS.
2. THE FOLLOWING SCOPE ITEMS SHALL REQUIRE SUBMITTALS:
A. STORM SEWER STRUCTURES, PIPING AND APPURTENANCES
B. POTABLE WATER SYSTEM MATERIALS, FITTINGS AND APPURTENANCES
C. WASTEWATER PIPING, FITTINGS, STRUCTURES AND APPURTENANCES
D. EROSION CONTROL MATERIALS AND DEVICES
E. ELECTRICAL EQUIPMENT, MATERIALS AND APPURTENANCES
F. ASPHALT MIX DESIGN(S)
G. CONCRETE MIX DESIGN(S)
H. EARTHWORK SOIL IMPORT SOURCE
I. GRASSING / SOD TYPE AND SOURCE
3. MATERIALS SHALL NOT BE DELIVERED ONSITE OR INSTALLED UNTIL SUBMITTAL APPROVAL IS PROVIDED BY THE EOR OR EOR'S REPRESENTATIVE.
4. CONTRACTOR IS RESPONSIBLE FOR ANY COST INCURRED TO REVISE ANY WORK COMPLETED PRIOR TO SUBMITTAL APPROVAL. THE OWNER OR EOR ARE NOT RESPONSIBLE FOR COSTS INCURRED IF ANY MATERIALS ARE PURCHASED, DELIVERED OR INSTALLED PRIOR TO SUBMITTAL REVIEW AND APPROVAL.
5. THE CONTRACTOR SHALL PROVIDE A LIST OF SUB-CONTRACTORS THAT WILL BE PERFORMING ANY PHASES OF WORK ON THE PROJECT. THE LIST SHALL INCLUDE NAME OF COMPANY, ADDRESS, PHONE NUMBERS, AND EMAIL ADDRESSES OF INDIVIDUALS RESPONSIBLE FOR THE SUB-CONSULTANT WORK EFFORT AND THE CONTACT INFORMATION FOR THE INDIVIDUALS IN RESPONSIBLE CHARGE OF PERFORMING THE WORK IN THE FIELD.

WORK WITHIN COUNTY RIGHT-OF-WAY

- 1. THE METHOD AND MANNER OF PERFORMING THE WORK AND THE QUALITIES OF MATERIAL FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY (FORT CLARKE BLVD.) SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT (ACPW).
2. NO WORK SHALL BE DONE NOR MATERIALS USED IN THE RIGHT-OF-WAY WITHOUT INSPECTION BY ALACHUA COUNTY PUBLIC WORKS (352-462-2147). THE CONTRACTOR SHALL FURNISH ACPW WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER THE WORK PERFORMED AND MATERIALS USED ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS.
3. ALACHUA COUNTY PUBLIC WORKS RESERVES THE RIGHT TO MODIFY THE PROPOSED WORK WITHIN THEIR RIGHT-OF-WAY TO ENSURE COMPATIBILITY WITH EXISTING IMPROVEMENTS. SUCH MODIFICATION COSTS SHALL BE BORNE BY THE CONTRACTOR.
4. TRAFFIC CONTROL WITHIN EXISTING RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LATEST MUTCD OR FDOT STANDARDS FOR CONTROL OF TRAFFIC THROUGH WORK ZONES.
5. ANY CONSTRUCTION IN THE ALACHUA COUNTY PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING WORK. A MOT PERMIT IS REQUIRED FOR ANY ACTIVITY IN THE RIGHT-OF-WAY THAT EITHER DIRECTLY OR INDIRECTLY AFFECTS VEHICULAR OR PEDESTRIAN TRAFFIC.
6. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC (MOT) PLAN TO THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT FOR MOT PERMIT APPROVAL PRIOR TO CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
7. OPEN CUT RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH FDOT INDEX 125-2001, AND USING THE FLOWABLE FILL OPTION.

STANDARD ABBREVIATIONS

Table listing standard abbreviations such as ACPW (ALACHUA COUNTY PUBLIC WORKS), ADJ (ADJACENT), ALUM (ALUMINUM), APT (APARTMENT), ASPH (ASPHALT), B&J (BORE & JACK), BC (BACK OF CURB), BCCMP (BITUMINOUS COATED CORRUGATED METAL PIPE), BLDG (BUILDING), BM (BENCHMARK), BOP (BEGINNING OF PROFILE), BSL (BUILDING SETBACK LINE), C&G (CURB & GUTTER), C&I (CURVE ONE), CATV (CABLE TELEVISION), CE (CURB END TAPER), CF (CUBIC FEET), CI (CAST IRON), CL (CAST-IN-PLACE), CLP (CENTER LINE), CLF (CHAIN LINK FENCE), CMP (CORRUGATED METAL PIPE), CMA (CORRUGATED METAL PIPE ARCHED), CMU (CONCRETE MASONRY UNIT), CO (CLEAN OUT), COA (CITY OF ALACHUA), COMM (COMMUNICATIONS), CONC (CONCRETE), CPE (CORRUGATED POLYETHYLENE PIPE), CY (CUBIC YARD), CMT (DITCH BOTTOM INLET), DCBP (DOUBLE CHECK BACKFLOW PREVENTER), DEG (DEGREES), RI (ONE FOOT RADIUS), RB (REACTION BLOCK), RCP (REINFORCED CONCRETE PIPE), REF (REFERENCE), RBFP (REDUCED PRESSURE BACKFLOW PREVENTER), REQ'D (REQUIRED), RT (RIGHT), RW (RESILIENT WEDGE), S (SOUTH), S/W (SIDEWALK), SE (SOUTH EAST), SEC (SECONDARY), SF (SQUARE FEET), SG (SWITCH GEAR), SI (SURFACE INLET), SPA (SPACE), SRWD (SUWANNEE RIVER WATER MANAGEMENT DISTRICT), SPT (STANDARD PENETRATION TEST), SS (SANITARY SEWER), SSL (STAINLESS STEEL), ST (STORM), ST (STREET), STA (STATION), STD (STANDARD), STL (STEEL), SW (SOUTH WEST), SY (SQUARE YARD), TBC (TRAFFIC BEARING COVER), TBM (TEMPORARY BENCHMARK), TEL (TELEPHONE), TFMR (TRANSFORMER), TV (TELEVISION), TW (TOP OF WALL), TYP (TYPICAL), UD (UNDER DRAIN), UTIL (UTILITIES), VCP (VITRIFIED CLAY PIPE), VEH (VEHICLE), W (WEST), W/ (WITH), W/W (WATER/WASTEWATER), WM (WATER MAIN), WS (WATER SERVICE), WW (WASTEWATER), YR (YEAR).

LEGEND

Legend table showing symbols and line styles for various utilities and features: EST (EXISTING STORM SEWER LINE), EWV (EXISTING SANITARY SEWER LINE), EGAS (EXISTING GAS SERVICE LINE), ECATV (EXISTING CATV & TELEPHONE LINE), EUE (EXISTING UNDERGROUND ELECTRIC LINE), EWM (EXISTING WATER MAIN), E76 (EXISTING CONTOUR LINE), EXF (EXISTING FENCE), NG (NATURAL GROUND SPOT ELEVATION), X (EXISTING TREE TO REMAIN), X (EXISTING TREE TO BE REMOVED), P (PROPOSED ASPHALT PAVEMENT), P (PROPOSED CONC PAVEMENT/SIDEWALK), 87 (PROPOSED FINISH ELEVATION CONTOUR), 35.00 (PROPOSED FINISH SPOT ELEVATION), A (PROPOSED DIRECTIONAL FLOW ARROW), D (DRAINAGE AREA DIVIDE), S (PROPOSED SILT FENCE), T (PROPOSED TIE BARRICADE FENCE), C (PROPOSED CENTERLINE), ST (PROPOSED STORM SEWER LINE), WM (PROPOSED WATER MAIN), PE (PROPOSED PRIMARY ELECTRIC SERVICE CONDUIT), SE (PROPOSED SECONDARY ELECTRIC SERVICE CONDUIT), GAS (PROPOSED GAS MAIN), TEL (PROPOSED CATV & TELEPHONE SERVICE), CATV (PROPOSED CATV & TELEPHONE SERVICE), WW (PROPOSED WASTEWATER), SSFM (PROPOSED SANITARY SEWER FORCE MAIN), PUE (PROPOSED PUE), PD (PROPOSED DRAINAGE SWALE), R (RIGHT-OF-WAY), P (PROPOSED PVC SANITARY SEWER SERVICE LATERAL WITH CLEANOUT), F (FILTER BAGS).

Table with columns NO, DATE, DESCRIPTION, DRWN, APPR. Includes a REVISIONS section and a PRELIMINARY NOT FOR CONSTRUCTION stamp.

Professional seal and logo for Logan B. Peters, P.E., Civil Engineering | Land Planning Surveying | Construction Services.

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Project title: LEGEND, ABBREVIATIONS, AND NOTES. Client: FICKLING AND CO. PROJECT: LULLWATER AT FORT CLARKE BLVD.

Table with columns DATE, PROJECT NO, SHEET NO. Includes DECEMBER 2022, 403-19-01, and C0.1.



**STORMWATER POLLUTION PREVENTION PLAN**

**A. PROJECT NAME AND LOCATION**

PROJECT NAME: LULLWATER AT FORT CLARKE BLVD  
 LOCATION:  
 ADDRESS: 1404 FT. CLARKE BLVD, GAINESVILLE, FL 32606  
 SECTION 32  
 TOWNSHIP 09  
 RANGE 19  
 COUNTY: ALACHUA  
 LATITUDE: N29° 48' 40.5"  
 LONGITUDE: W82° 29' 56"

**B. SITE MAP**

THE SITE MAP IS DEPICTED ON SHEET C2.0 – MASTER DEVELOPMENT PLAN.

**C. NATURE OF THE CONSTRUCTION ACTIVITY**

THE PROJECT WILL PROPOSE A TRADITIONAL NEIGHBORHOOD DEVELOPMENT OF 298 MULTIFAMILY UNITS AND 24,900 SF OF NON-RESIDENTIAL SPACE ALONG WITH ACCOMPANYING ROAD INFRASTRUCTURE, DRAINAGE, AND UTILITY INFRASTRUCTURE.

**D. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES**

- INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES AND IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL PLAN.
- EXCAVATION OF STORMWATER MANAGEMENT BASIN IMPROVEMENTS. STABILIZE BASIN SLOPES.
- CLEARING AND GRUBBING OF PROPOSED ROAD RIGHT-OF-WAY AND UTILITY EASEMENTS AND BUILDING PAD AREAS.
- SITE GRADING.
- INSTALLATION OF STORM SEWER, SANITARY SEWER AND UTILITIES.
- ROAD AREA SUBGRADE.
- CONSTRUCTION OF CURB & GUTTER.
- ROAD AREA BASE.
- FINISHED GRADING OF LOT BUILDING PADS, LOT GRADING, AND STABILIZATION OF THE SITE.
- ASPHALT PAVING.
- INSTALLATION OF SIDEWALKS.
- FINAL GRASSING AND LANDSCAPING.
- CLEANING SEDIMENT FROM STORM SEWER SYSTEM AND BASIN OUTFALL.

**E. TOTAL AREA OF THE PROJECT SITE: 25.64± ACRES**

**F. TOTAL AREA OF THE SITE TO BE DISTURBED: 23.06± ACRES**

**G. SOIL TYPES AND WATER TABLE**

- SOILS ARE VARIABLE WITH VARYING DEPTHS OF SILTY SAND SOILS OVER A VERY CLAYEY SAND LAYER.
- THERE IS A CONFINING LAYER AT THIS LOCATION IN THE VERY CLAYEY SAND LAYER AT ROUGHLY 15'± BELOW THE SURFACE.
- SOIL TYPES WITHIN THE PROJECT AREA ARE CLASSIFIED PER NCRS AS ARREDO FINE SAND, MILLHOPPER SAND, AND LOCHLOOSA FINE SAND.
- THE ESTIMATED 100 YEAR FLOOD PLAIN IS EXPECTED TO BE AT ELEV = 114.70' FOR BASIN 1.
- THE ESTIMATED 100 YEAR FLOOD PLAIN IS EXPECTED TO BE AT ELEV = 119.51' FOR BASIN 2.

**H. LOCATION AND DRAINAGE AREA FOR EACH DISCHARGE POINT**

STORMWATER BASIN NO.	DRAINAGE AREA	LOCATION OF DISCHARGE POINT	RECEIVING WATERS
BASIN 1	10.98 AC	ONSITE	OFFSITE DEPRESSION
BASIN 2	9.85 AC	ONSITE	OFFSITE DEPRESSION

**I. CONTROLS**

- PRIOR TO SOIL DISTURBING ACTIVITIES THE CONTRACTOR SHALL INSTALL THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THE SEDIMENTATION AND EROSION CONTROL PLAN.
- THE CONTRACTOR SHALL CONTROL AND RESTRICT SITE ACCESS. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MATERIALS AT THE ACCESS POINT, AS REQUIRED, TO PREVENT MIGRATION OF ERODABLE MATERIALS OFFSITE, EITHER BY VEHICLE, WIND OR STORM WATER TRANSPORT.
- THE CONTRACTOR SHALL CONSTRUCT, INSTALL AND STABILIZE STORM WATER BASINS. SITE GRADING SHALL DIRECT STORM WATER RUNOFF TO THESE FACILITIES DURING CONSTRUCTION AND PRIOR TO DISCHARGE FROM THE PROJECT SITE.
- UPON INSTALLATION, THE CONTRACTOR SHALL PROTECT THE STORM AND SANITARY SEWER SYSTEMS WITH HAYBALES AND/OR FILTER FABRIC TO PREVENT DEBRIS AND SEDIMENTS FROM ENTERING THESE SYSTEMS.
- THE CONTRACTOR SHALL UTILIZE TEMPORARY CONTROLS SUCH AS SEEDING, MULCHING, GEOTEXTILES, WATERING, SOD STABILIZATION OR OTHER MEANS TO PREVENT EROSION OF EXPOSED SOILS FROM WIND, WATER OR RAIN.

**J. CONTROLS TO DIVERT STORMWATER FLOW DURING CONSTRUCTION**

- THE CONTRACTOR SHALL TAKE MEASURES TO INSURE STORM WATER RUNOFF DOES NOT LEAVE THE PROJECT SITE WITHOUT FIRST PASSING THROUGH A SEDIMENT BASIN TO ALLOW SETTLING OF SUSPENDED SOLIDS IN THE STORM WATER PRIOR TO DISCHARGE FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL INSTALL SILT FENCING AS SHOWN ON THE SEDIMENTATION AND EROSION CONTROL PLAN.
- THE CONTRACTOR SHALL CONSTRUCT, INSTALL AND STABILIZE STORM WATER BASINS. SITE GRADING SHALL DIRECT STORM WATER RUNOFF TO THESE FACILITIES DURING CONSTRUCTION AND PRIOR TO DISCHARGE FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL USE SILT FENCING, TEMPORARY SWALES, EARTHEN DIKES, CHECK DAMS OR OTHER MEANS TO DIRECT STORM WATER RUNOFF TO TEMPORARY SETTLING BASINS OR STORM WATER BASINS DURING CONSTRUCTION.

**K. TEMPORARY SEDIMENT BASINS**

- THE CONTRACTOR SHALL CONSTRUCT, INSTALL AND STABILIZE STORM WATER BASINS OR SUMP OUTFALLS. THE CONTRACTOR SHALL USE THESE FACILITIES AS TEMPORARY SEDIMENT BASINS DURING THE SITE CONSTRUCTION PHASE. SITE GRADING SHALL DIRECT STORM WATER RUNOFF TO THESE FACILITIES DURING CONSTRUCTION AND PRIOR TO DISCHARGE FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL CLEAN STORM WATER BASINS OF SILT AND SEDIMENT DEPOSITS AT THE END OF CONSTRUCTION AND DISPOSE OF THE MATERIALS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

**L. PERMANENT STORM WATER MANAGEMENT CONTROLS**

- THE COMPLETED PROJECT HAS TWO (2) PERMANENT STORMWATER MANAGEMENT FACILITIES. ALL STORMWATER MANAGEMENT FACILITIES SHALL BE PERMITTED AND APPROVED BY ALACHUA COUNTY AND THE SJRWMD.
- THE COMPLETED PROJECT WILL INCORPORATE AND MAINTAIN PERMANENT GRASSING, LANDSCAPING AND/OR GROUND COVERS TO PROTECT SITE SOILS FROM EROSION AND TRANSPORT.

**M. CONTROLS FOR SPECIAL POLLUTANTS**

- WASTE DISPOSAL: WASTE CONSTRUCTION MATERIALS, DEBRIS AND GARBAGE WILL BE PLACED IN APPROPRIATE CONTAINERS. THE CONTRACTOR SHALL DISPOSE OF THESE MATERIALS IN AN APPROPRIATE MANNER AND IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. NO WASTE MATERIALS SHALL BE BURIED ON SITE.
- OFFSITE VEHICLE TRACKING: THE CONTRACTOR SHALL CONTROL AND RESTRICT SITE ACCESS. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MATERIALS AT THE VEHICLE ACCESS POINT, AS REQUIRED, TO PREVENT MIGRATION OF ERODABLE MATERIALS OFFSITE, EITHER BY VEHICLE, WIND OR STORM WATER TRANSPORT.
- FERTILIZERS, HERBICIDES AND PESTICIDES: FLORIDA FRIENDLY FERTILIZERS AND PESTICIDES WILL BE USED AT A MINIMUM AND IN ACCORDANCE WITH THE MANUFACTURER'S SUGGESTED APPLICATION RATES. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.
- TOXIC SUBSTANCES: THE CONTRACTOR SHALL NOT STORE FUELS, PAINT, CHEMICALS OR OTHER MATERIALS THAT ARE CONSIDERED TO BE TOXIC ON SITE. SHOULD THE CONTRACTOR DESIRE TO STORE SUCH MATERIALS ON SITE, THE CONTRACTOR SHALL PREPARE AND SUBMIT A WRITTEN PLAN TO ADDRESS STORAGE, SPILL PREVENTION AND CLEANUP PRIOR TO STORING THE MATERIALS ON SITE.
- OTHER: PORT-O-LETS OR OTHER TEMPORARY SANITATION FACILITIES SHALL BE LOCATED AWAY FROM THE INLET POINTS TO THE STORM SEWER SYSTEM AND AWAY FROM THE STORM WATER BASINS. THE CONTRACTOR SHALL NOT ALLOW VEHICLE MAINTAINANCE ON SITE.

**N. MAINTENANCE PLAN**

- THE CONTRACTOR SHALL MAINTAIN PERMANENT AND TEMPORARY SEDIMENT AND EROSION CONTROL FEATURES IN ACCORDANCE WITH THE PLANS AND TECHNICAL SPECIFICATIONS.
- SILT FENCING SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND ANY NECESSARY REPAIRS TO SHALL BE MADE IMMEDIATELY. THE CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM THE SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- THE CONTRACTOR SHALL MAINTAIN THE SITE VEHICULAR ACCESS POINT TO PREVENT TO PREVENT MIGRATION OF ERODABLE MATERIALS OFFSITE, EITHER BY VEHICLE, WIND OR STORM WATER TRANSPORT.
- THE CONTRACTOR SHALL INSPECT INLETS, MANHOLES AND OUTFALLS IMMEDIATELY AFTER EACH RAINFALL EVENT AND REPAIR THE CONTROLS NECESSARY TO PREVENT SILT AND SEDIMENTS FROM ENTERING THE STORM AND SANITARY SEWERS OR FROM DISCHARGING OFFSITE.
- MULCH OR SOD THAT HAS WASHED OUT SHALL BE REPLACED IMMEDIATELY.
- THE CONTRACTOR SHALL MAINTAIN ALL AREAS OF THE PROJECT SITE WITH PROPER EROSION AND SEDIMENT CONTROLS THROUGHOUT THE SITE CONSTRUCTION PERIOD OF THE PROJECT.

**O. COMPLIANCE INSPECTIONS**

- QUALIFIED PERSONNEL WILL INSPECT ALL POINTS OF DISCHARGE, ALL DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN STABILIZED, ACTIVE CONSTRUCTION AREAS, VEHICULAR ACCESS POINTS AND ALL BEST MANAGEMENT PRACTICES AT LEAST ONCE EVERY 7 CALENDER DAYS OR WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCHES OR GREATER. AREAS OF THE PROJECT SITE THAT HAVE BEEN STABILIZED SHALL BE INSPECTED AT LEAST ONCE A MONTH. THESE INSPECTIONS SHALL CONTINUE UNTIL A NOTICE OF TERMINATION IS FILED.

**P. NON-STORM WATER DISCHARGES**

- IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES MAY OCCUR FROM THE SITE DURING CONSTRUCTION: FIRE FLOW TESTS OR FLUSHING, WATER FROM UTILITY LINE FLUSHING, PAVEMENT WASH WATER (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED) AND UNCONTAMINATED GROUNDWATER (FROM DEWATERING ACTIVITIES).
- DEWATERING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCE GROUND WATER FROM ANY NONCONTAMINATED SITE ACTIVITY.
- IF NON-STORM WATER DISCHARGES DO OCCUR, WATERS SHOULD BE DIRECTED TO STORM WATER BASINS OR TEMPORARY BASINS PRIOR TO DISCHARGE FROM THE PROJECT SITE.
- TURBID WATERS FROM STORM WATER PONDS SHALL NOT BE PUMPED OFFSITE OR DIRECTLY TO OFFSITE RECEIVING WATERS.
- ANY PUMPED WATER FROM THE STORM WATER PONDS SHALL BE TREATED SO AS NOT TO ALLOW DISCHARGE OF POLLUTED WATERS FROM THE PROJECT SITE. TREATMENT OPTIONS INCLUDE SILT FENCES, SETTLING PONDS, PROPERLY USED FLOCCULATING AGENTS OR OTHER APPROPRIATE MEANS.

**CONSTRUCTION INSPECTION FORM  
STORMWATER POLLUTION PREVENTION PLAN**  
 INSPECTION FREQUENCY: WEEKLY OR AFTER 0.50 INCHES OF RAIN

PROJECT NAME: LULLWATER AT FORT CLARKE BLVD  
 OWNER: FICKLING AND CO.  
 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.

**INSPECTOR INFORMATION:**

NAME	QUALIFICATION	DATE

THE ABOVE SIGNATURE ALSO SHALL CERTIFY THAT THIS FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IF THERE ARE NOT ANY INCIDENTS OF NON-COMPLIANCE IDENTIFIED ABOVE.

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

NAME (RESPONSIBLE AUTHORITY) DATE

**CERTIFICATION STATEMENT  
STORMWATER POLLUTION PREVENTION PLAN**

ALL CONTRACTOR(S) AND/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: LULLWATER AT FORT CLARKE BLVD  
 CONTRACTING FIRM: FIRM NAME  
 ADDRESS  
 TELEPHONE NUMBER

I CERTIFY, UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC STORMWATER PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

NAME TITLE  
 SIGNATURE DATE

DATE OF INSPECTION	SILT FENCE	EARTH DIKES	STRUCTURAL DIVERSION	SWALE	SEDIMENT TRAP	CHECK DAM	SUBSURFACE DRAIN	PIPE SLOPE DRAIN	LEVEL SPREADERS	STORM DRAIN INLET PROTECTION	VEGETATIVE BUFFER STRIP	VEGETATIVE PRESERVATION AREA	RETENTION POND	CONSTRUCTION ENTRANCE STABILIZATION	PERIMETER DITCH	CURB AND GUTTER	PAVED ROAD SURFACE	ROCK OUTLET PROTECTION	REINFORCED SOIL RETAINING SYSTEM	CARBON	SEDIMENT BASIN	TEMPORARY SEED / SOD	PERMANENT SEED / SOD	MULCH	HAY BALES	GEOTEXTILE	RIP-RAP	TREE PROTECTION	DETENTION POND	RETENTION POND	WASTE DISPOSAL / HOUSEKEEPING	DAM	SAND BAG	OTHER	OBSERVATIONS OR MAINTENANCE ACTIONS TAKEN	INSPECTED BY		

**REVISIONS**

NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD: LOGAN B. PETERS, P.E. FLORIDA LICENSE NO. 88516
---

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SHEET TITLE: **STORMWATER POLLUTION PROTECTION PLAN**

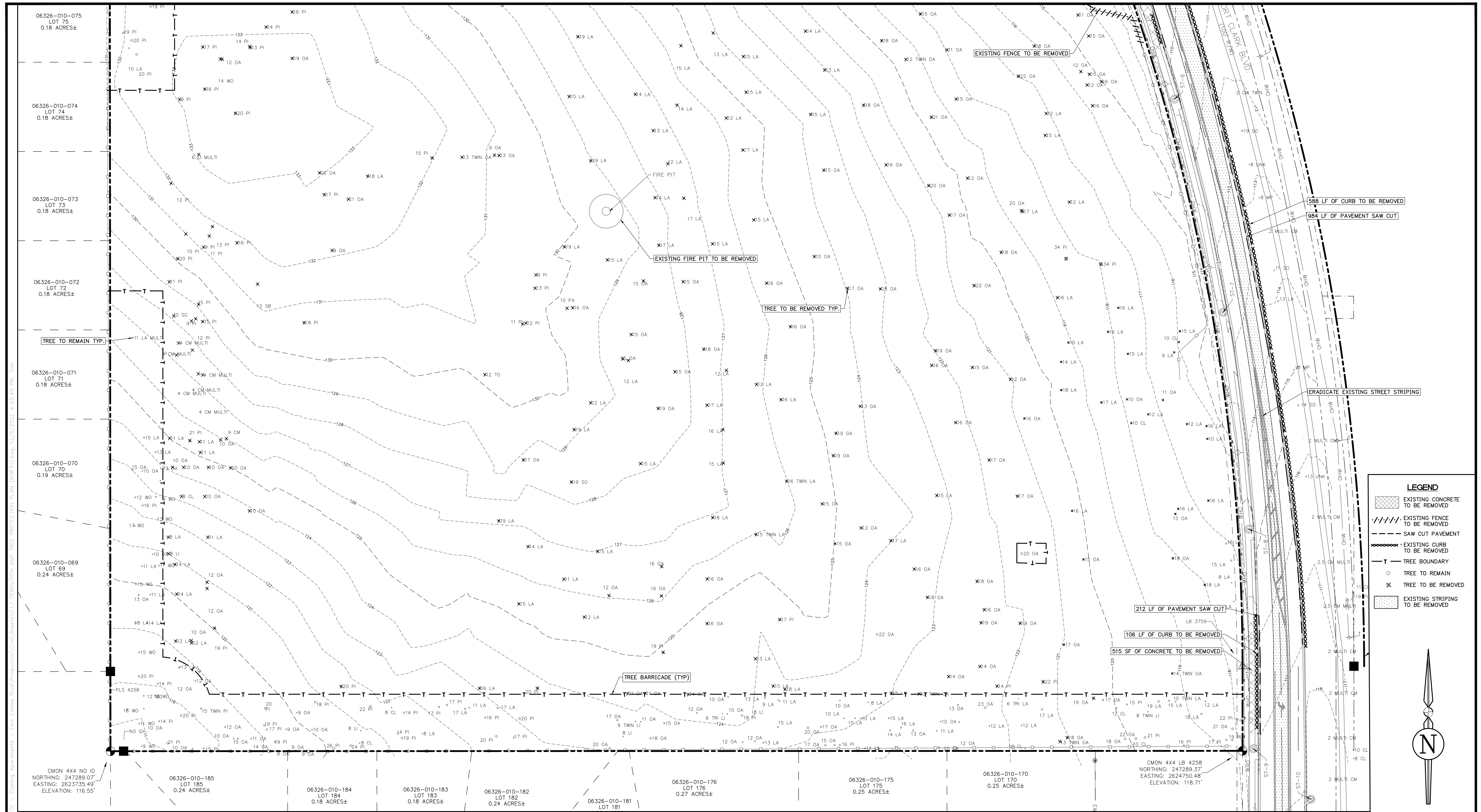
CLIENT: **FICKLING AND CO. MACON, GA**

PROJECT: **LULLWATER AT FORT CLARKE BLVD**

DATE: **DECEMBER 2022**

PROJECT NO: **403-19-01**

SHEET NO: **C0.2**



**LEGEND**

- EXISTING CONCRETE TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- SAW CUT PAVEMENT
- EXISTING CURB TO BE REMOVED
- TREE BOUNDARY
- TREE TO REMAIN
- TREE TO BE REMOVED
- EXISTING STRIPING TO BE REMOVED

06326-010-075 LOT 75 0.18 ACRES±  
 06326-010-074 LOT 74 0.18 ACRES±  
 06326-010-073 LOT 73 0.18 ACRES±  
 06326-010-072 LOT 72 0.18 ACRES±  
 06326-010-071 LOT 71 0.18 ACRES±  
 06326-010-070 LOT 70 0.19 ACRES±  
 06326-010-069 LOT 69 0.24 ACRES±  
 CMON 4X4 NO ID NORTHING: 247289.07' EASTING: 2623735.49' ELEVATION: 116.55'  
 06326-010-185 LOT 185 0.24 ACRES±  
 06326-010-184 LOT 184 0.18 ACRES±  
 06326-010-183 LOT 183 0.18 ACRES±  
 06326-010-182 LOT 182 0.24 ACRES±  
 06326-010-181 LOT 181  
 06326-010-176 LOT 176 0.27 ACRES±  
 06326-010-175 LOT 175 0.25 ACRES±  
 06326-010-170 LOT 170 0.25 ACRES±  
 CMON 4X4 LB 4258 NORTHING: 247289.37' EASTING: 2624750.48' ELEVATION: 118.71'

REVISIONS			
NO.	DATE	DESCRIPTION	DRWN/ APPR

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
 FLORIDA LICENSE NO. 88516

**PRELIMINARY NOT FOR CONSTRUCTION**

**JBPro**

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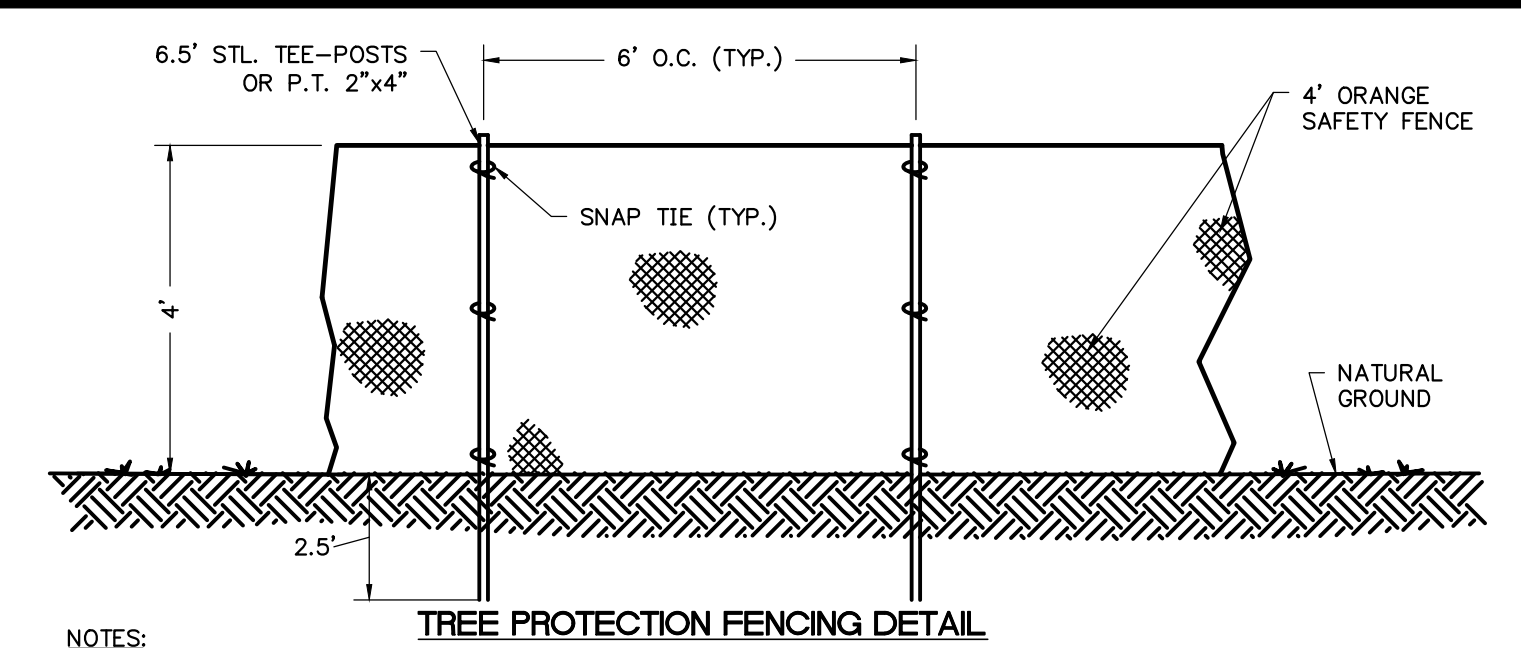
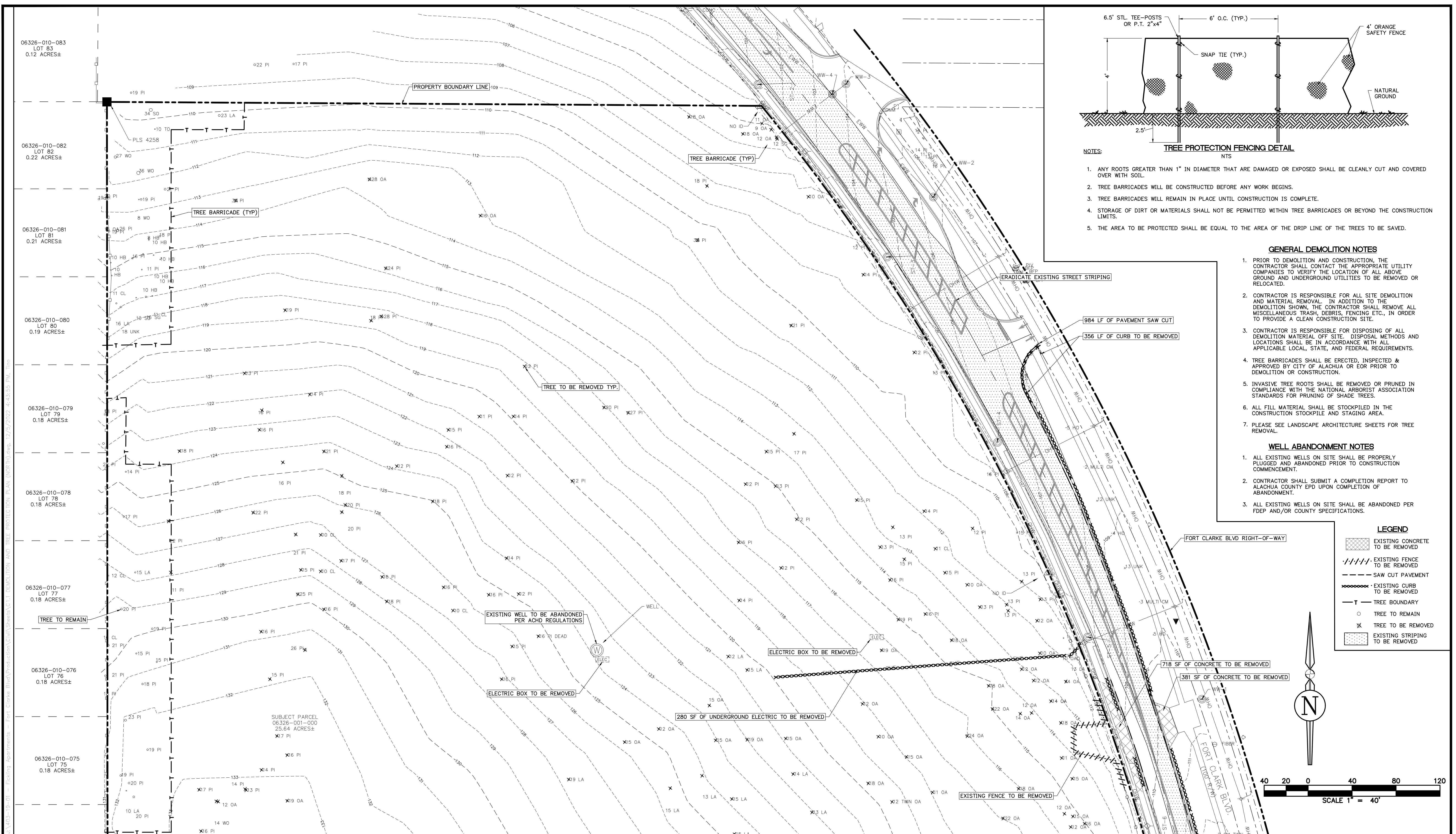
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 4420 US-1 S, Suite 1 | St. Augustine, Florida 32086  
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 Toll Free: (844) Go-JBPro | E-mail: [contact@jbpro.com](mailto:contact@jbpro.com)

SHEET TITLE:  
**DEMOLITION AND TREE PROTECTION PLAN (SOUTH)**  
 CLIENT:  
**FICKLING AND CO. MACON, GA**

PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**  
 PROJECT NO:  
**403-19-01**  
 SHEET NO:  
**C1.0**





- NOTES:
1. ANY ROOTS GREATER THAN 1" IN DIAMETER THAT ARE DAMAGED OR EXPOSED SHALL BE CLEANLY CUT AND COVERED OVER WITH SOIL.
  2. TREE BARRICADES WILL BE CONSTRUCTED BEFORE ANY WORK BEGINS.
  3. TREE BARRICADES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
  4. STORAGE OF DIRT OR MATERIALS SHALL NOT BE PERMITTED WITHIN TREE BARRICADES OR BEYOND THE CONSTRUCTION LIMITS.
  5. THE AREA TO BE PROTECTED SHALL BE EQUAL TO THE AREA OF THE DRIP LINE OF THE TREES TO BE SAVED.

**GENERAL DEMOLITION NOTES**

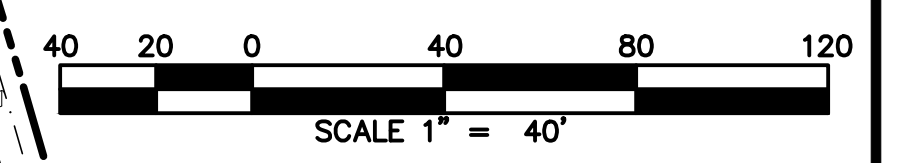
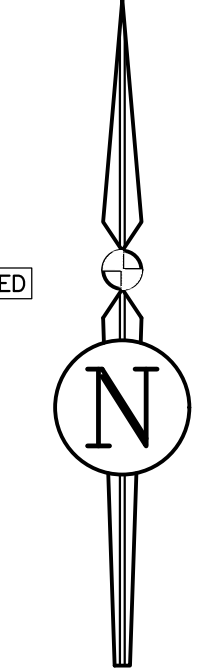
1. PRIOR TO DEMOLITION AND CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO VERIFY THE LOCATION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES TO BE REMOVED OR RELOCATED.
2. CONTRACTOR IS RESPONSIBLE FOR ALL SITE DEMOLITION AND MATERIAL REMOVAL. IN ADDITION TO THE DEMOLITION SHOWN, THE CONTRACTOR SHALL REMOVE ALL MISCELLANEOUS TRASH, DEBRIS, FENCING ETC., IN ORDER TO PROVIDE A CLEAN CONSTRUCTION SITE.
3. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ALL DEMOLITION MATERIAL OFF SITE. DISPOSAL METHODS AND LOCATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
4. TREE BARRICADES SHALL BE ERECTED, INSPECTED & APPROVED BY CITY OF ALACHUA OR EOR PRIOR TO DEMOLITION OR CONSTRUCTION.
5. INVASIVE TREE ROOTS SHALL BE REMOVED OR PRUNED IN COMPLIANCE WITH THE NATIONAL ARBORIST ASSOCIATION STANDARDS FOR PRUNING OF SHADE TREES.
6. ALL FILL MATERIAL SHALL BE STOCKPILED IN THE CONSTRUCTION STOCKPILE AND STAGING AREA.
7. PLEASE SEE LANDSCAPE ARCHITECTURE SHEETS FOR TREE REMOVAL.

**WELL ABANDONMENT NOTES**

1. ALL EXISTING WELLS ON SITE SHALL BE PROPERLY PLUGGED AND ABANDONED PRIOR TO CONSTRUCTION COMMENCEMENT.
2. CONTRACTOR SHALL SUBMIT A COMPLETION REPORT TO ALACHUA COUNTY EPD UPON COMPLETION OF ABANDONMENT.
3. ALL EXISTING WELLS ON SITE SHALL BE ABANDONED PER FDEP AND/OR COUNTY SPECIFICATIONS.

**LEGEND**

- EXISTING CONCRETE TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- SAW CUT PAVEMENT
- EXISTING CURB TO BE REMOVED
- TREE BOUNDARY
- TREE TO REMAIN
- TREE TO BE REMOVED
- EXISTING STRIPING TO BE REMOVED



REVISIONS		DRWN	APPR
NO.	DATE	DESCRIPTION	

ENGINEER OF RECORD: **LOGAN B. PETERS, P.E.**  
FLORIDA LICENSE NO. 88516

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Toll Free: (844) Go-JBPro | E-mail: [contact@jbpro.com](mailto:contact@jbpro.com)

SHEET TITLE: **DEMOLITION AND TREE PROTECTION PLAN (NORTH)**

CLIENT: **FICKLING AND CO. MACON, GA**

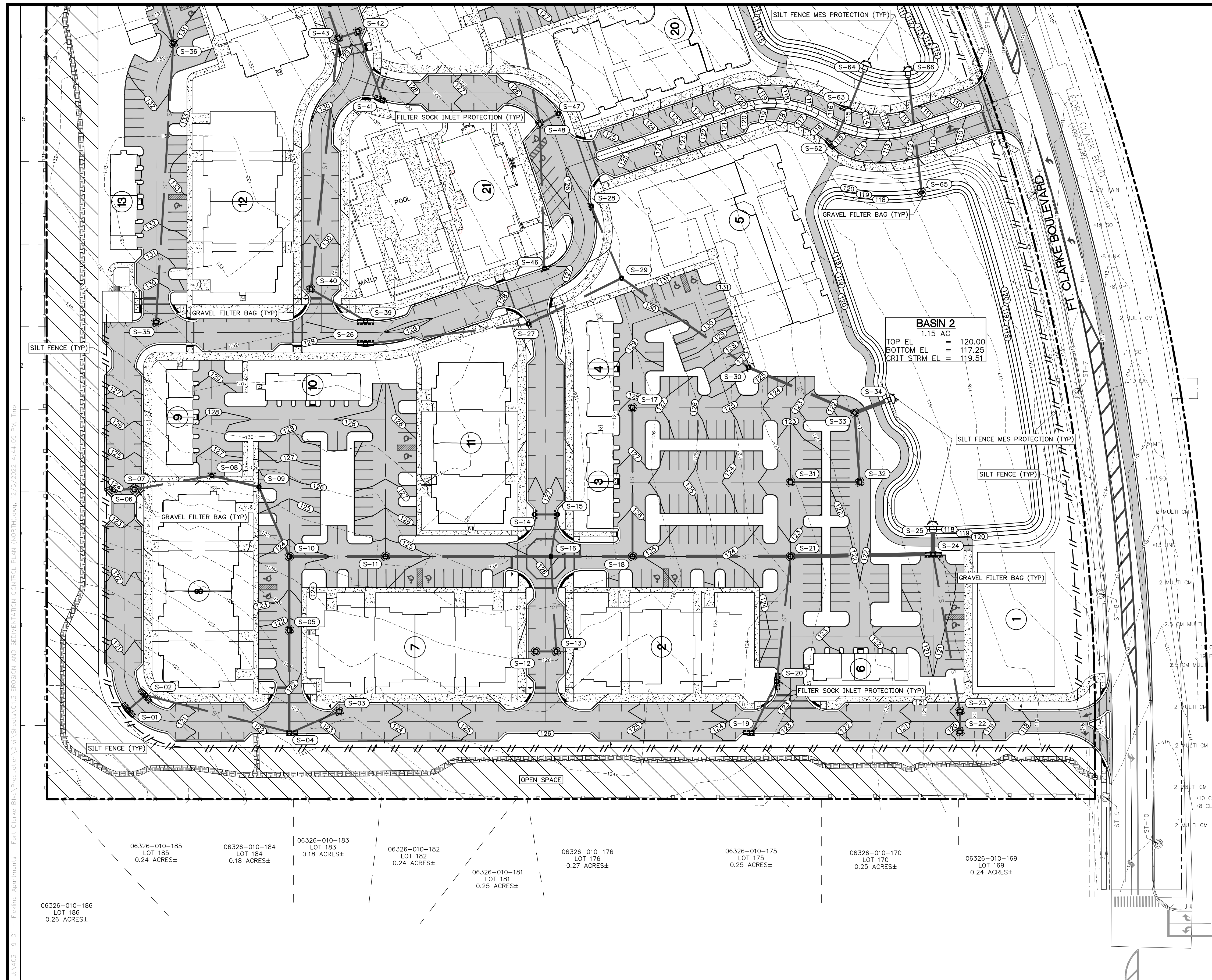
PROJECT: **LULLWATER AT FORT CLARKE BLVD**

DATE: **DECEMBER 2022**

PROJECT NO: **403-19-01**

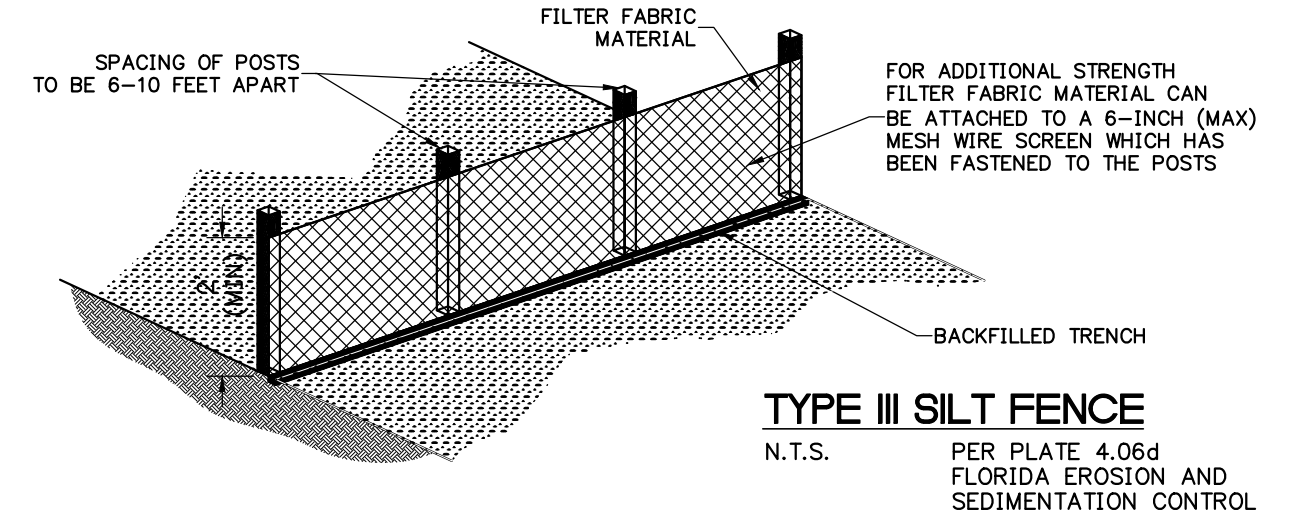
SHEET NO: **C1.1**



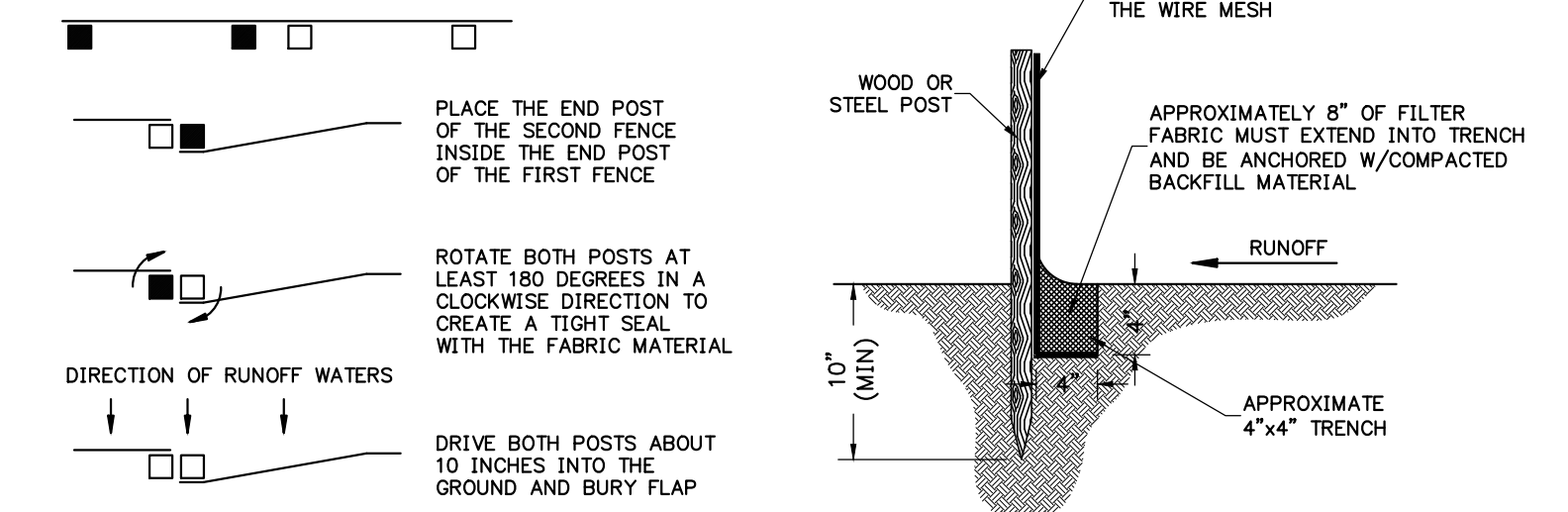


**EROSION AND SEDIMENTATION CONTROL**

1. DURING CONSTRUCTION, NO DIRECT DISCHARGE OF WATER TO DOWNSTREAM RECEIVING WATERS WILL BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER QUALITY, AND SHALL ROUTE DISCHARGE WATER IN SUCH A MANNER TO ADEQUATELY REMOVE SILT PRIOR TO RUNOFF FROM THE SITE.
2. SILT FENCING AND OTHER SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT EROSION AND SEDIMENTATION CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013).
3. PROTECT EXISTING STORMWATER INLET STRUCTURES WITH FILTER FABRIC OR OTHER EROSION CONTROL DEVICE TO PREVENT SEDIMENTS FROM ENTERING STORM SEWER SYSTEM.
4. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER 1/2" OR GREATER RAINFALL.
5. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND APPROVED, AND VEGETATION IS FULLY ESTABLISHED.
6. CONTRACTOR SHALL MINIMIZE AIR POLLUTION FROM PARTICULATES AND DUST. WATER SHALL BE APPLIED AS NEEDED TO REDUCE DUST DURING CONSTRUCTION. USE OTHER STABILIZATION METHODS SUCH AS HYDROMULCHING AS NEEDED.
7. CONTRACTOR SHALL STOCKPILE AND STORE MATERIALS SUCH THAT STORMWATER FLOW IS NOT IMPEDED DURING CONSTRUCTION AND MATERIAL EROSION DOES NOT OCCUR.
8. THE DRAINAGE RETENTION BASINS SHALL BE ROUGH GRADED PRIOR TO CONSTRUCTING THE LIMESTONE BASE FOR THE ROADWAYS. THE RETENTION BASINS SHALL BE FINE GRADED AND GRASSED PRIOR TO PAVING AND SITE CLEANUP.
9. THE DRAINAGE BASIN BOTTOMS SHALL BE SCRAPED CLEAN OF ALL ACCUMULATED SEDIMENT UPON COMPLETION OF CONSTRUCTION AFTER THE STORMDRAIN SYSTEM IS COMPLETELY FLUSHED OUT. THEN THE BASIN BOTTOMS SHALL BE GRASSED.
10. ALL DISTURBED AREAS WITHIN THE PROJECT CONSTRUCTION LIMITS SHALL BE COMPLETELY GRASSED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER FDOT EROSION AND SEDIMENTATION CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013). EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.
11. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
12. THE TOTAL DISTURBED AREA OF THE PROJECT IS 23.06 ACRES

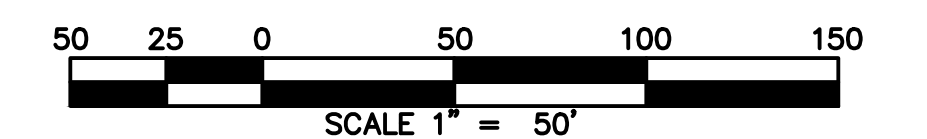
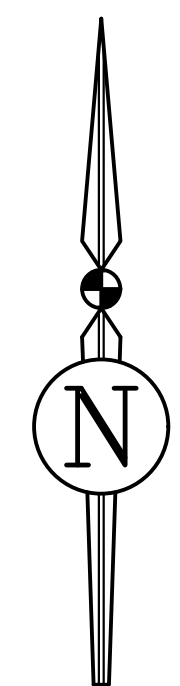


**ATTACHING TWO SILT FENCES**



**LEGEND**

- SILT FENCE BARRIERS PER FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013)
- GRAVEL FILTER BAGS PER FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013)
- FILTER SOCK INLET PROTECTION



REVISIONS			
NO.	DATE	DESCRIPTION	DRWN/ APPR

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE: **EROSION AND SEDIMENTATION CONTROL PLAN (SOUTH)**

CLIENT: **FICKLING AND CO. MACON, GA**

PROJECT: **LULLWATER AT FORT CLARKE BLVD**

DATE: **DECEMBER 2022**

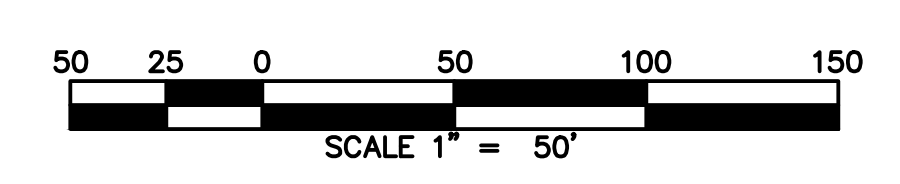
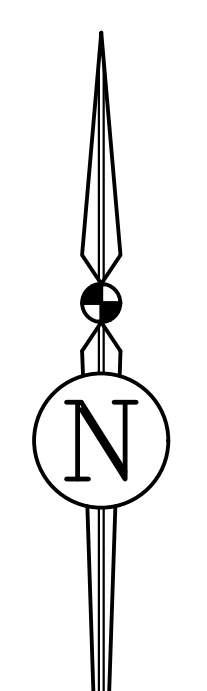
PROJECT NO: **403-19-01**

SHEET NO: **C1.2**





- LEGEND**
- SILT FENCE BARRIERS PER FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013)
  - GRAVEL FILTER BAGS PER FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013)
  - FILTER SOCK INLET PROTECTION



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NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD:  
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SHEET TITLE: **EROSION AND SEDIMENTATION CONTROL PLAN (NORTH)**

CLIENT: **FICKLING AND CO. MACON, GA**

PROJECT: **LULLWATER AT FORT CLARKE BLVD**

DATE: **DECEMBER 2022**

PROJECT NO: **403-19-01**

SHEET NO: **C1.3**



06326-010-186  
LOT 186  
0.26 ACRES±

06326-010-185  
LOT 185  
0.24 ACRES±

06326-010-184  
LOT 184  
0.18 ACRES±

06326-010-183  
LOT 183  
0.18 ACRES±

06326-010-182  
LOT 182  
0.24 ACRES±

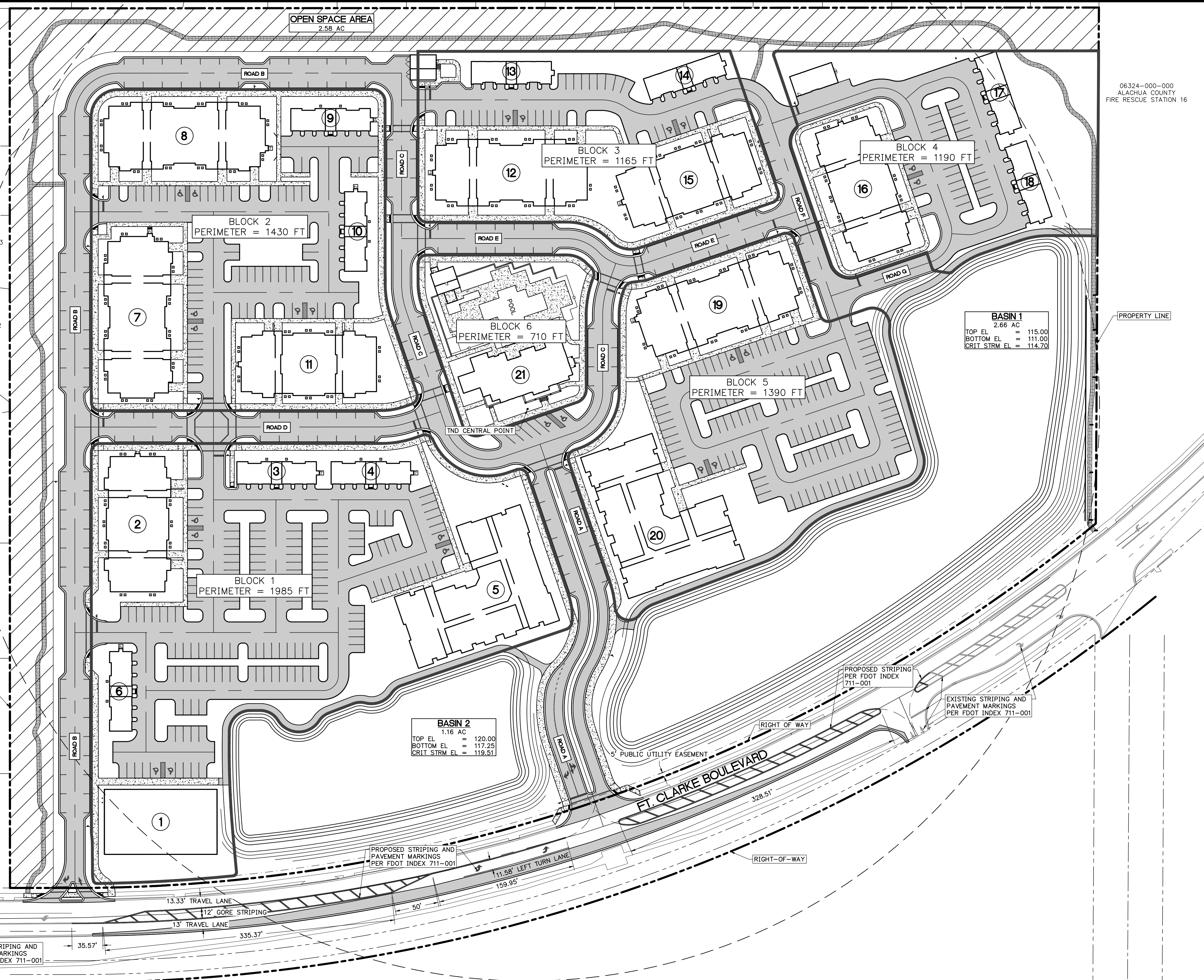
06326-010-181  
LOT 181  
0.25 ACRES±

06326-010-176  
LOT 176  
0.27 ACRES±

06326-010-175  
LOT 175  
0.25 ACRES±

06326-010-170  
LOT 170  
0.25 ACRES±

06326-010-169  
LOT 169  
0.24 ACRES±



**PARKING SPACES:**

A. CRITERIA FOR APARTMENTS: 1.5 SPACES PER UNIT

B. CRITERIA FOR RETAIL STORE: ONE SPACE FOR EVERY 200 SF OF FLOOR AREA

C. REQUIRED PARKING:  
APARTMENTS: 298 UNITS X 1.5 SPACES/UNIT = 447 SPACES  
RETAIL STORE: 9750 SF X 1 SPACE/200 SF = 49 SPACES  
TOTAL: 496 PARKING SPACES

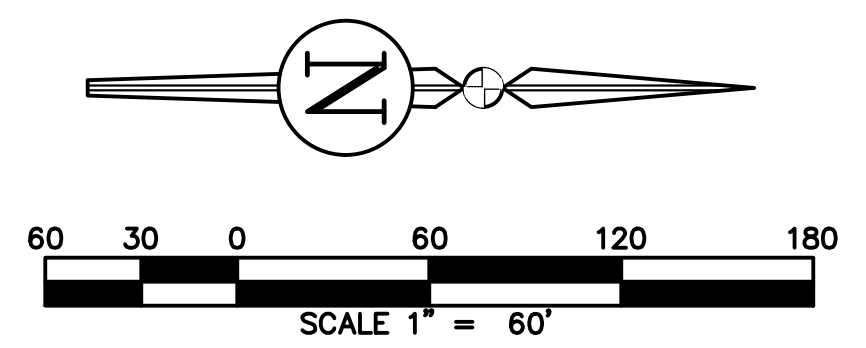
D. PROVIDED PARKING: 629 SPACES.

E. ADA CRITERIA: 8 SPACES PLUS 1% OF NUMBER OF SPACES ABOVE 401

F. ADA REQUIRED: 8 + 1% X 228 = 11 SPACES

G. ADA PROVIDED: 24 SPACES

BLOCK ID.	BLOCK LENGTH (FT)
1	1985
2	1430
3	1165
4	1190
5	1390
6	710



REVISIONS			DRWN	APPR
NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD:  
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FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**MASTER DEVELOPMENT PLAN**

CLIENT:  
**FICKLING AND CO.  
MACON, GA**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

PROJECT:  
**LULLWATER AT FORT  
CLARKE BLVD**

SHEET NO:  
**C2.0**





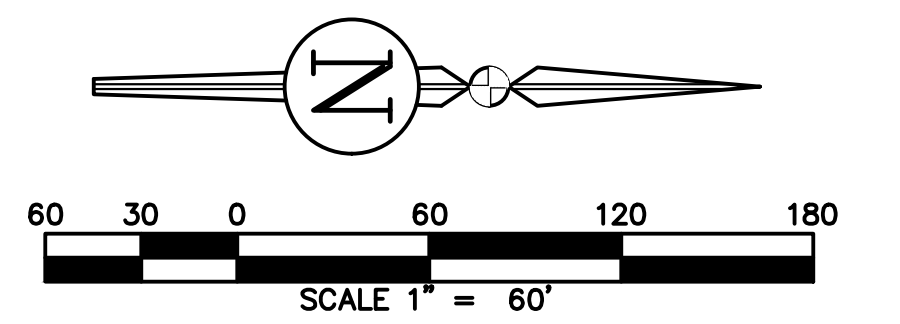
**PROPOSED SIGNS**

ID	DESCRIPTION	COLOR	MUTCD	SIZE	SIGN
P-1	STOP	RED	R1-1	30" X 30" OCTAGON	
P-2	END OF ROADWAY RED DIAMOND SIGNS	WHITE	OM4-1	18" X 18"	
P-3	STREET NAME SIGN	GREEN	D3-1	24" X 8"	
P-4	SPEED LIMIT SIGN	WHITE	R2-1	24" X 30"	

- GENERAL NOTES:**
- ALL SIGNAGE TO BE INSTALLED SHALL CONFORM TO MUTCD REQUIREMENTS, 2009 VERSION W/ REV. NO. 1&2, INCORPORATED 2012.
  - STREET SIGNS TO BE ADDED TO THE POLES OF ALL STOP SIGNS
  - ALL PAVEMENT MARKING SHALL CONFORM TO FDOT STD. INDEX 711-001
  - ALL SIGNAGE SHALL CONFORM TO MUTCD STANDARDS
  - RELOCATION OF BUS STOP OFF OF FT. CLARKE BLVD. WILL OCCUR AFTER CONSTRUCTION BY RTS.
  - NO BUILDING OR PORTION OF ANY BUILDING WITHIN 125FT OF THE SOUTH OR WEST PROPERTY LINE WILL EXCEED THREE STORIES.

**BASIN 1**  
 2.66 AC  
 TOP EL = 115.00  
 BOTTOM EL = 111.00  
 CRIT STRM EL = 114.70

**BASIN 2**  
 1.16 AC  
 TOP EL = 120.00  
 BOTTOM EL = 117.25  
 CRIT STRM EL = 119.93



**REVISIONS**

NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD:  
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SHEET TITLE:  
**SIGNAGE AND STRIPING PLAN**

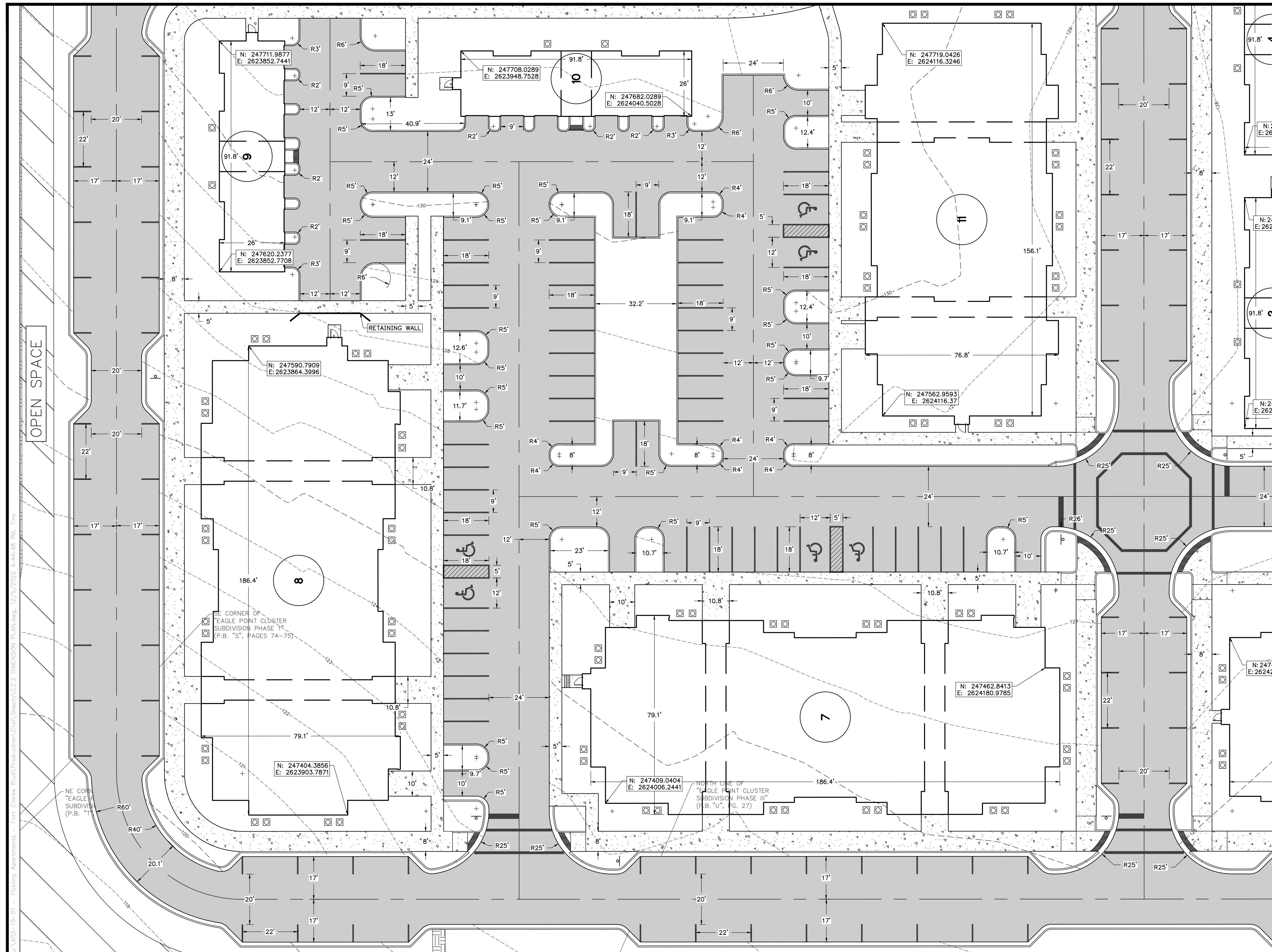
CLIENT:  
**FICKLING AND CO. MACON, GA**

DATE:  
**DECEMBER 2022**

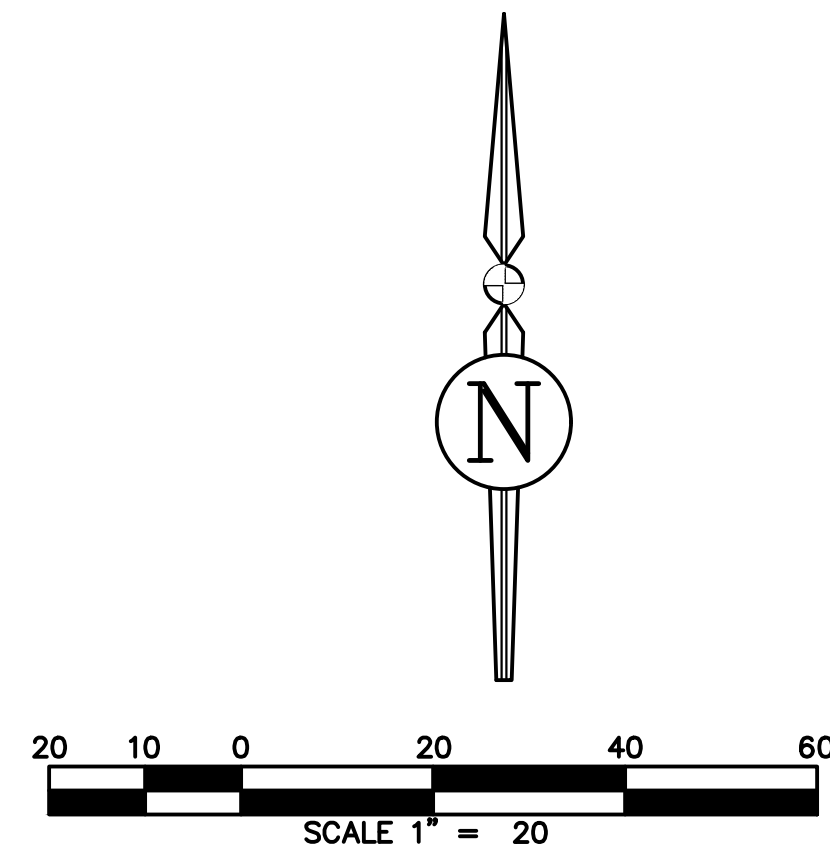
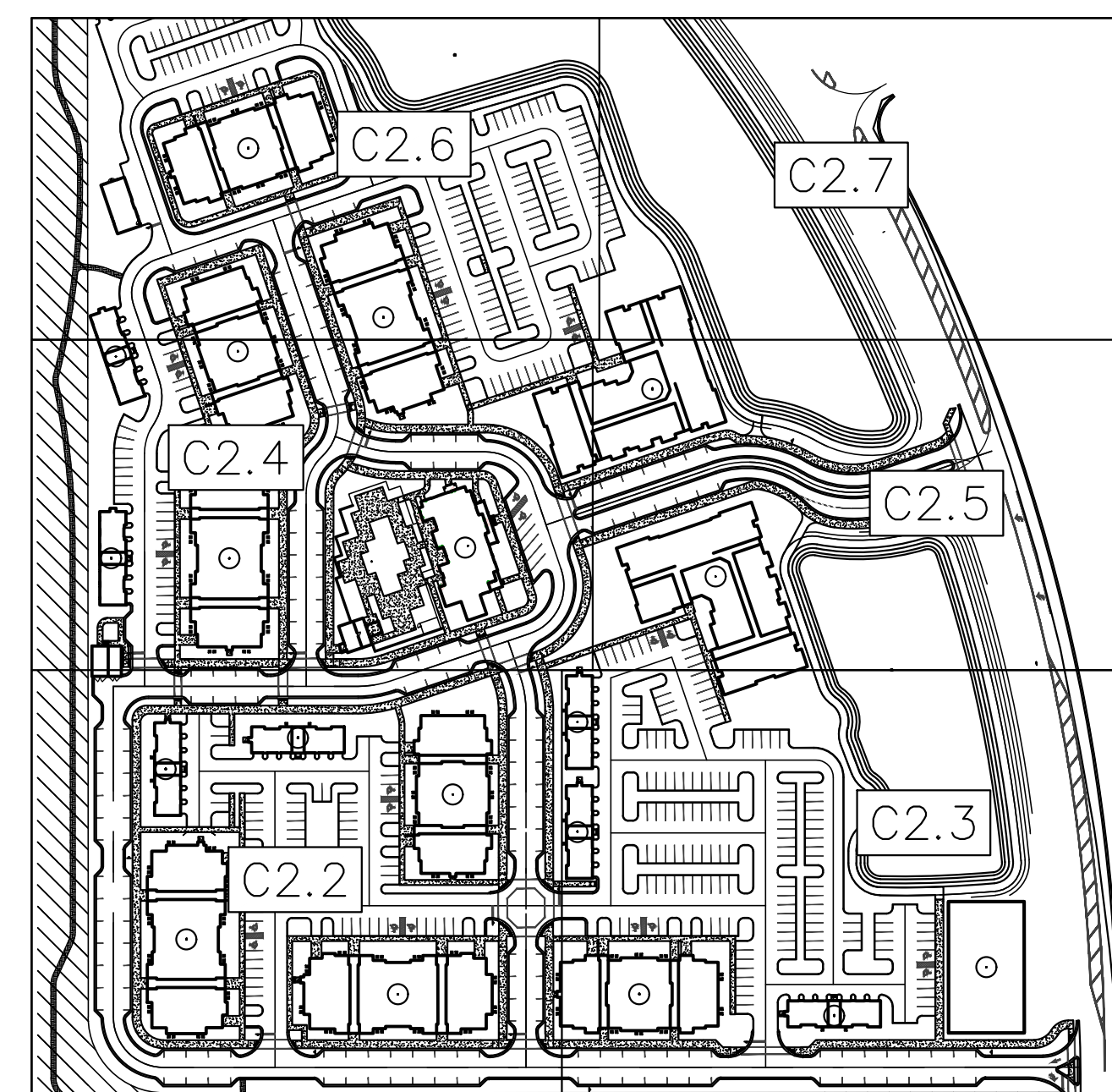
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C2.1**





- DIMENSION NOTES**
- BOUNDARY INFORMATION SHOWN IS BASED ON THE GEOLINEE SURVEY, INC BOUNDARY AND TOPOGRAPHIC SURVEY DATED 10/12/2022.
  - CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT SURVEY AND DESIGN DRAWINGS, AND SHALL VERIFY EXISTING SITE CONDITIONS. ANY APPARENT DISCREPANCIES OR ADDITIONAL PERTINENT INFORMATION SHALL BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY.
  - ALL DIMENSIONS AND RADII SHOWN ARE DIMENSIONED TO EDGE OF PAVEMENT OR FACE OF CURB, UNLESS OTHERWISE SPECIFIED.
  - ALL STRIPING SHALL CONFORM TO FDOT STANDARD INDEX 711-001
  - ALL SIGNAGE TO BE INSTALLED SHALL CONFORM TO MUTCD REQUIREMENTS, 2009 VERSION W/ REV. NO. 1&2, INCORPORATED 2012.
  - STREET SIGNS TO BE ADDED TO THE POLES OF ALL STOP SIGNS
  - ALL SIGNAGE SHALL CONFORM TO MUTCD STANDARDS
  - DESIGN IS PARALLEL AND PERPENDICULAR TO THE SOUTH PROPERTY LINE.



**REVISIONS**

NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**DIMENSION PLAN (SOUTH WEST)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

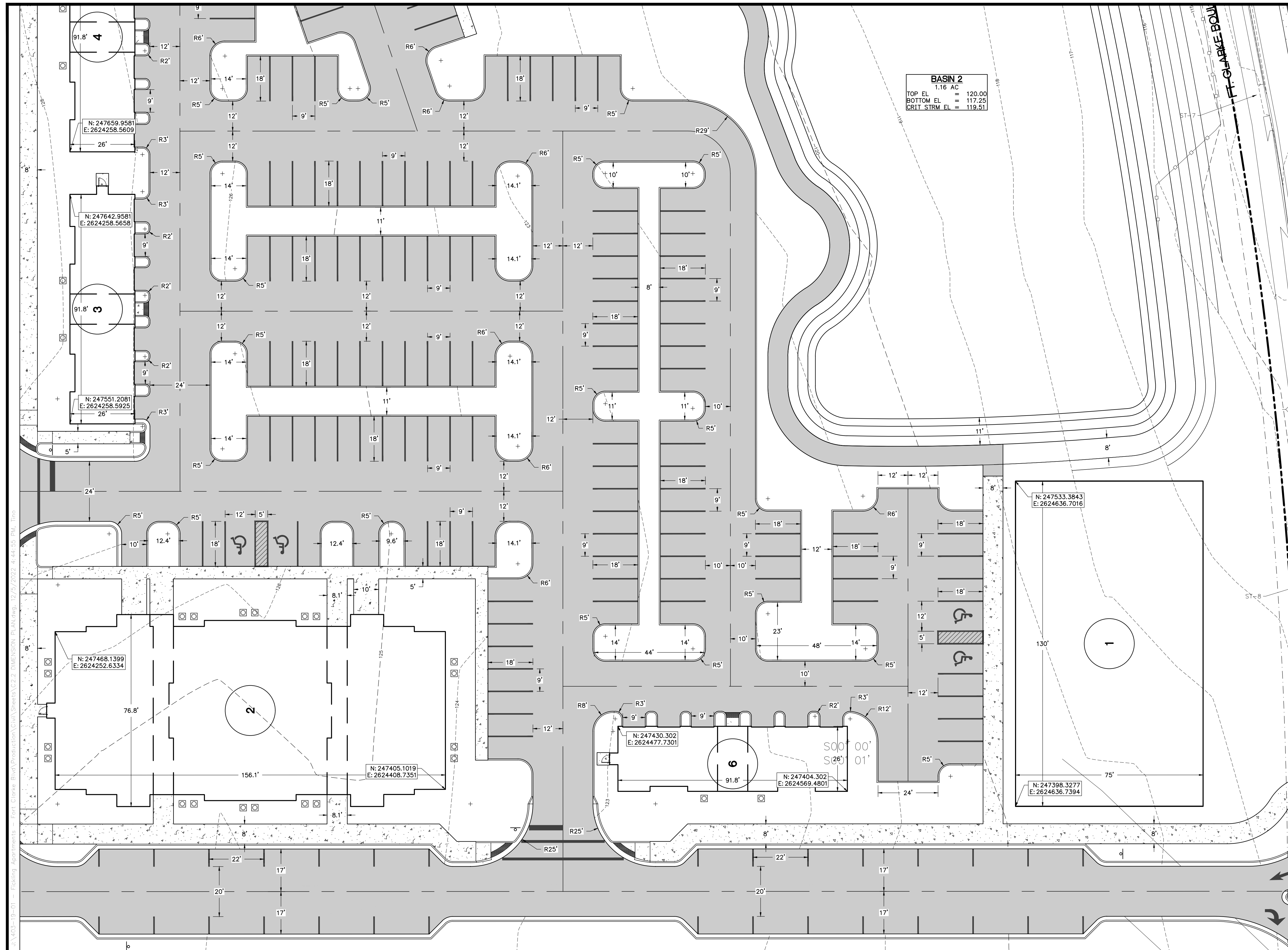
PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

DATE:  
**DECEMBER 2022**

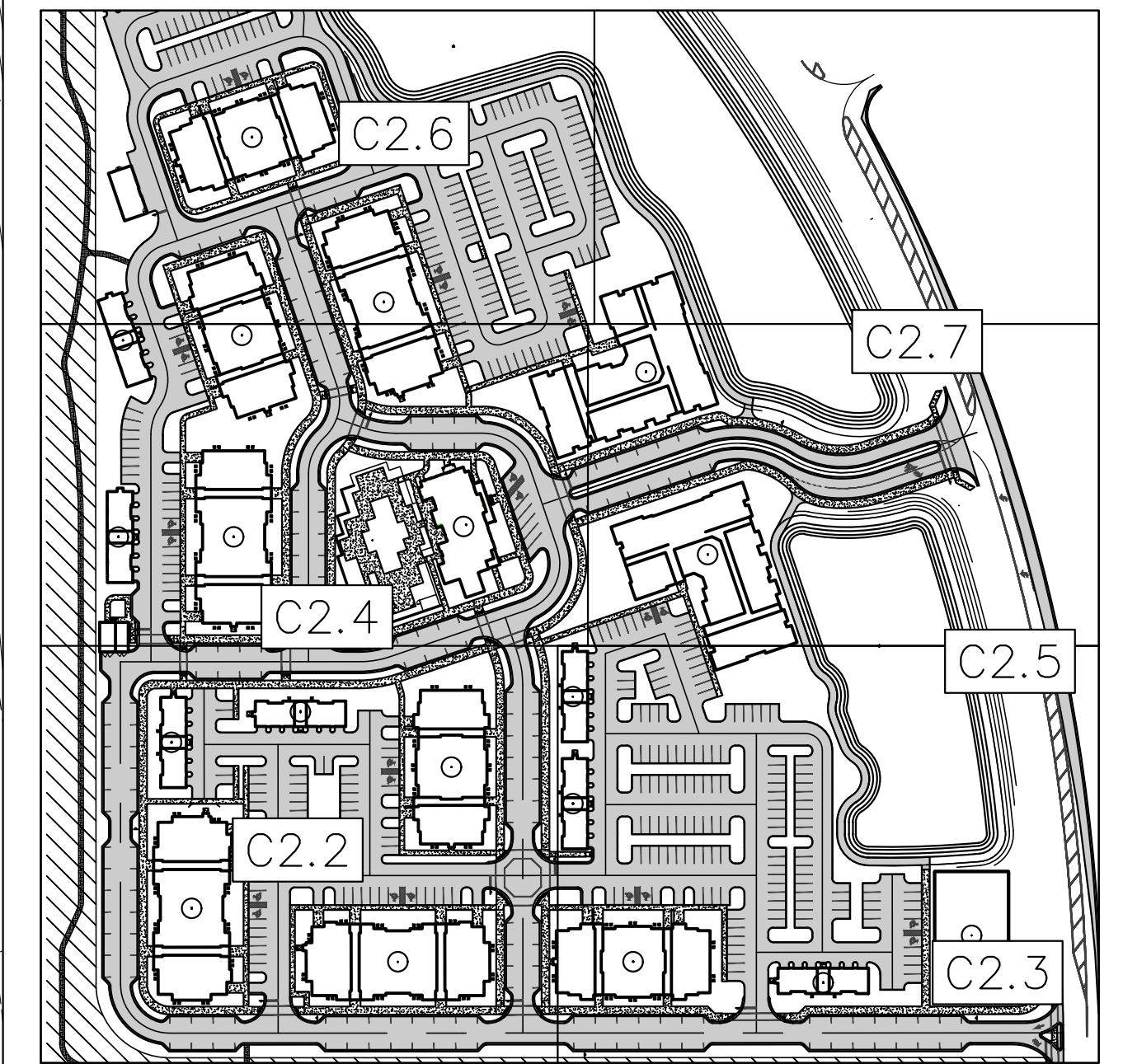
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C2.2**





- DIMENSION NOTES**
- BOUNDARY INFORMATION SHOWN IS BASED ON THE GEOLINEE SURVEY, INC BOUNDARY AND TOPOGRAPHIC SURVEY DATED 10/12/2022.
  - CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT SURVEY AND DESIGN DRAWINGS, AND SHALL VERIFY EXISTING SITE CONDITIONS. ANY APPARENT DISCREPANCIES OR ADDITIONAL PERTINENT INFORMATION SHALL BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY.
  - ALL DIMENSIONS AND RADII SHOWN ARE DIMENSIONED TO EDGE OF PAVEMENT OR FACE OF CURB, UNLESS OTHERWISE SPECIFIED.
  - ALL STRIPING SHALL CONFORM TO FDOT STANDARD INDEX Z11-001
  - ALL SIGNAGE TO BE INSTALLED SHALL CONFORM TO MUTCD REQUIREMENTS, 2009 VERSION W/ REV. NO. 1&2, INCORPORATED 2012.
  - STREET SIGNS TO BE ADDED TO THE POLES OF ALL STOP SIGNS
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REVISIONS			DRWN	APPR
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SHEET TITLE:  
**DIMENSION PLAN (SOUTH EAST)**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

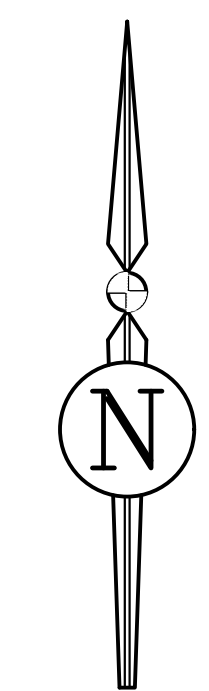
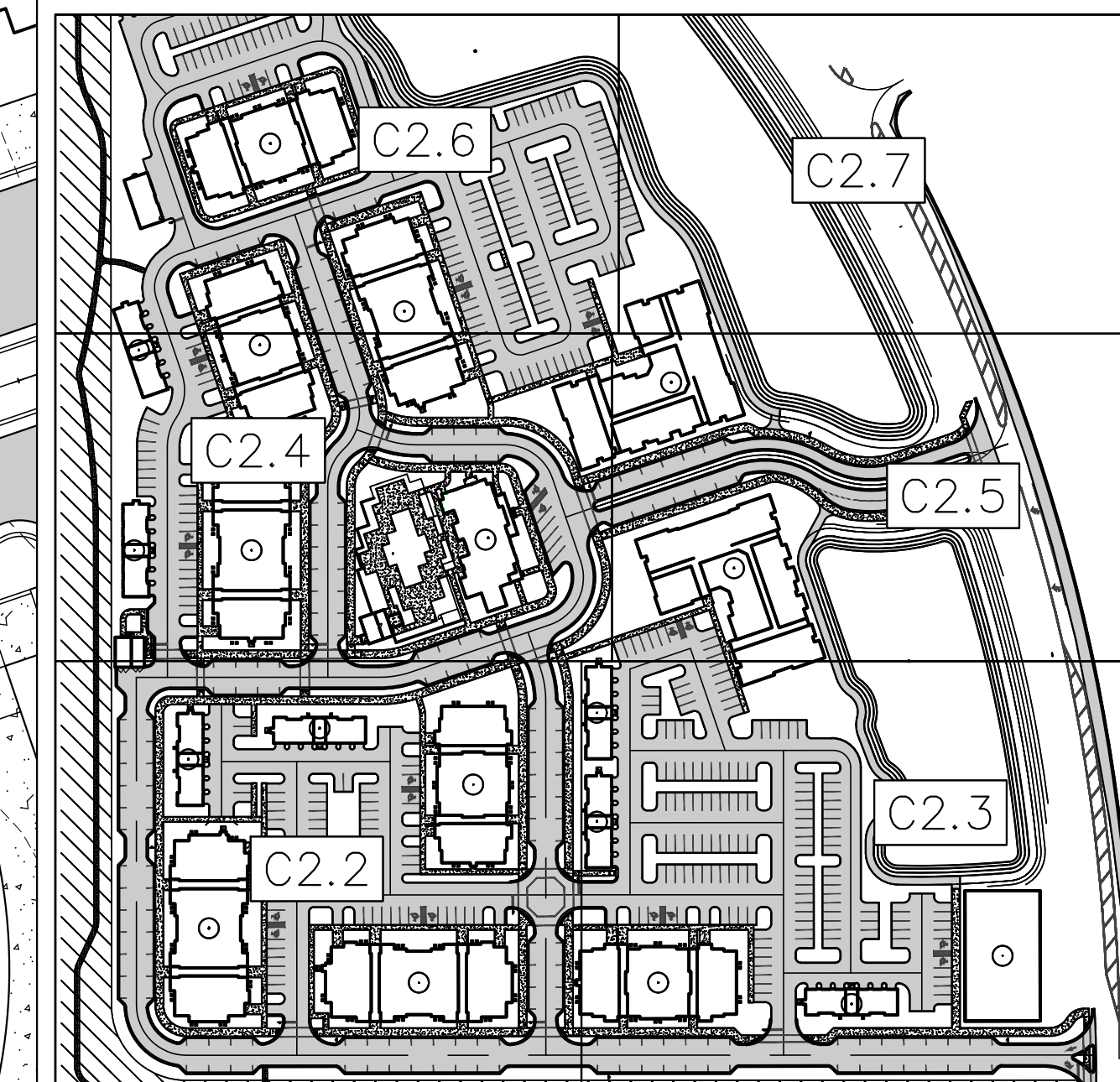
PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

SHEET NO:  
**C2.3**





- DIMENSION NOTES**
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  - CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT SURVEY AND DESIGN DRAWINGS, AND SHALL VERIFY EXISTING SITE CONDITIONS. ANY APPARENT DISCREPANCIES OR ADDITIONAL PERTINENT INFORMATION SHALL BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY.
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SHEET TITLE:  
**DIMENSION PLAN (CENTRAL WEST)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

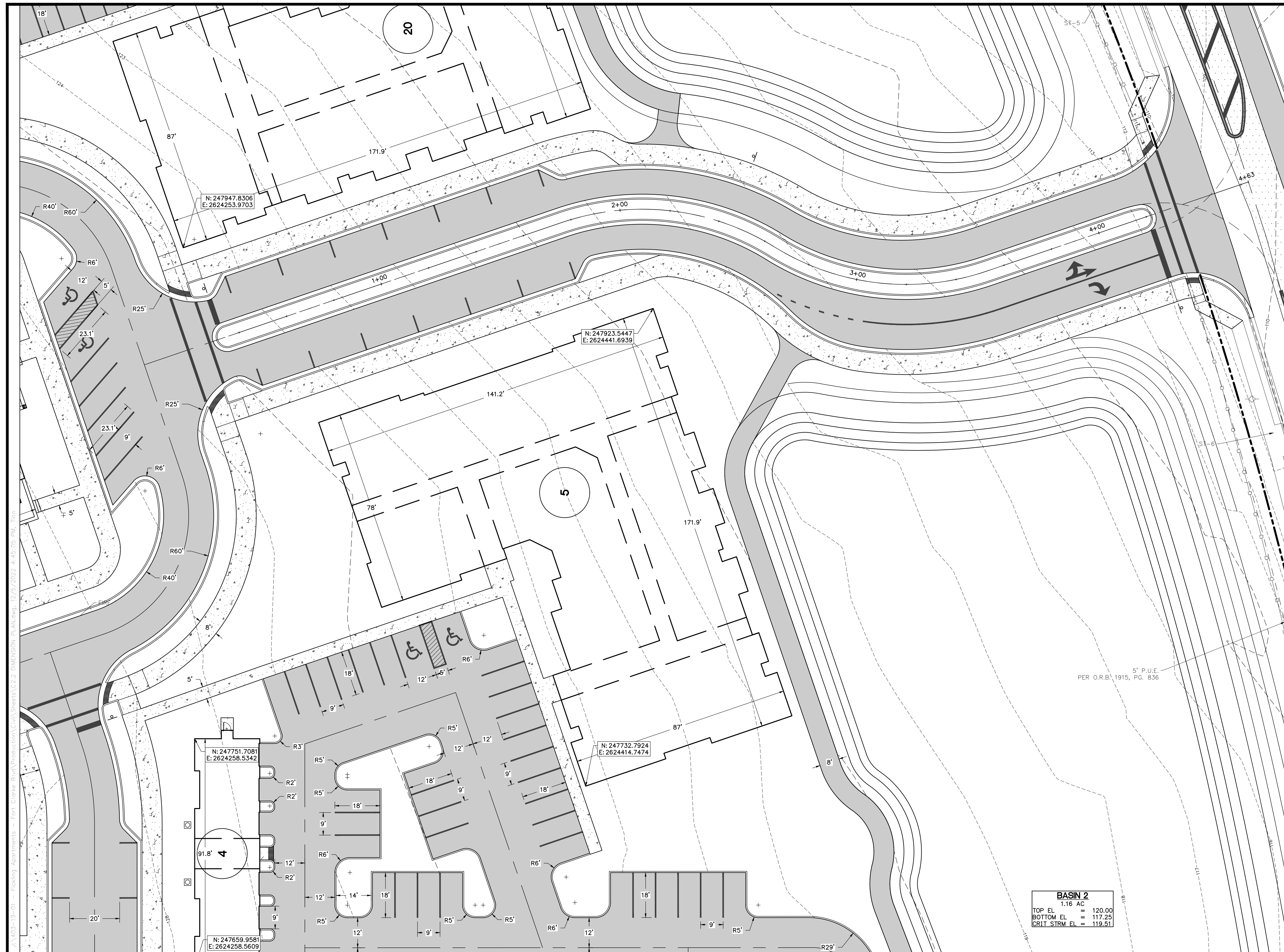
PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

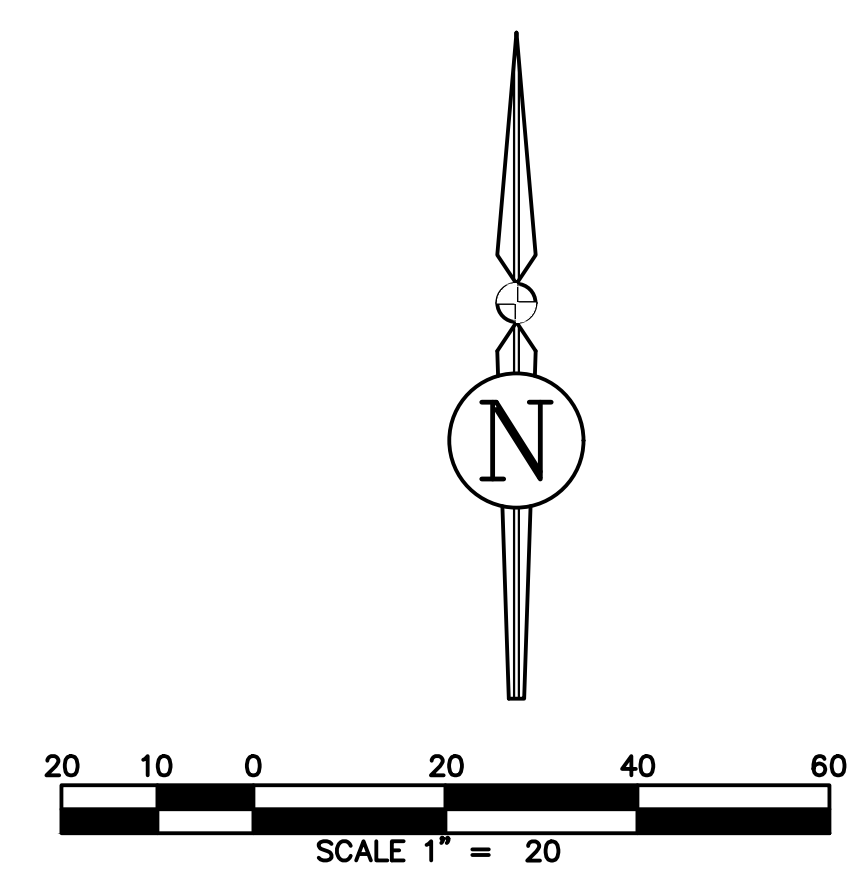
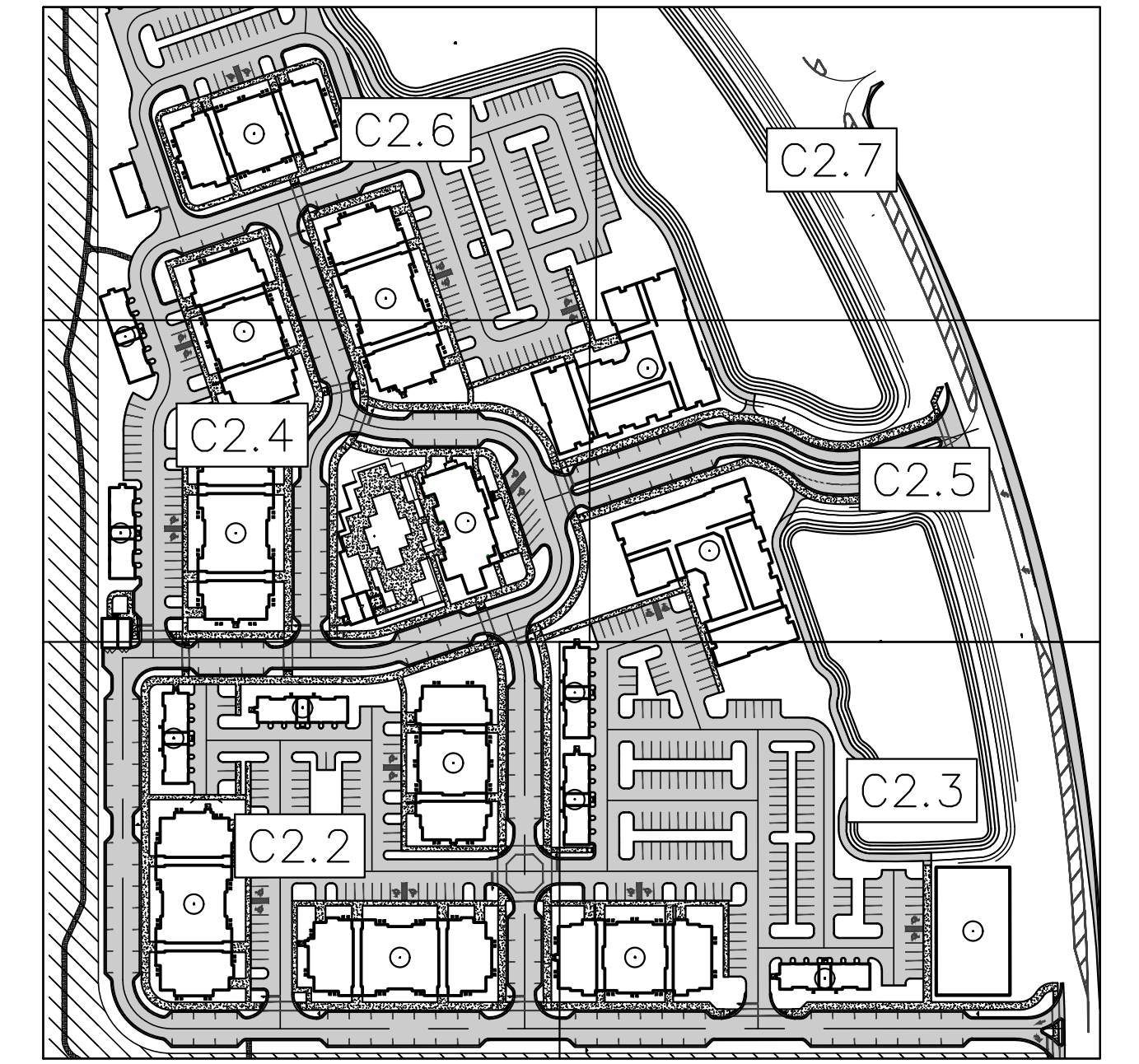
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C2.4**





- DIMENSION NOTES**
- BOUNDARY INFORMATION SHOWN IS BASED ON THE GEOLINE SURVEY, INC BOUNDARY AND TOPOGRAPHIC SURVEY DATED 10/12/2022.
  - CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT SURVEY AND DESIGN DRAWINGS, AND SHALL VERIFY EXISTING SITE CONDITIONS. ANY APPARENT DISCREPANCIES OR ADDITIONAL PERTINENT INFORMATION SHALL BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY.
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NO.	DATE	DESCRIPTION		

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 Toll Free: (844) Go-JBPro | E-mail: [contact@jbpro.com](mailto:contact@jbpro.com)

SHEET TITLE:  
**DIMENSION PLAN (CENTRAL EAST)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

DATE:  
**DECEMBER 2022**

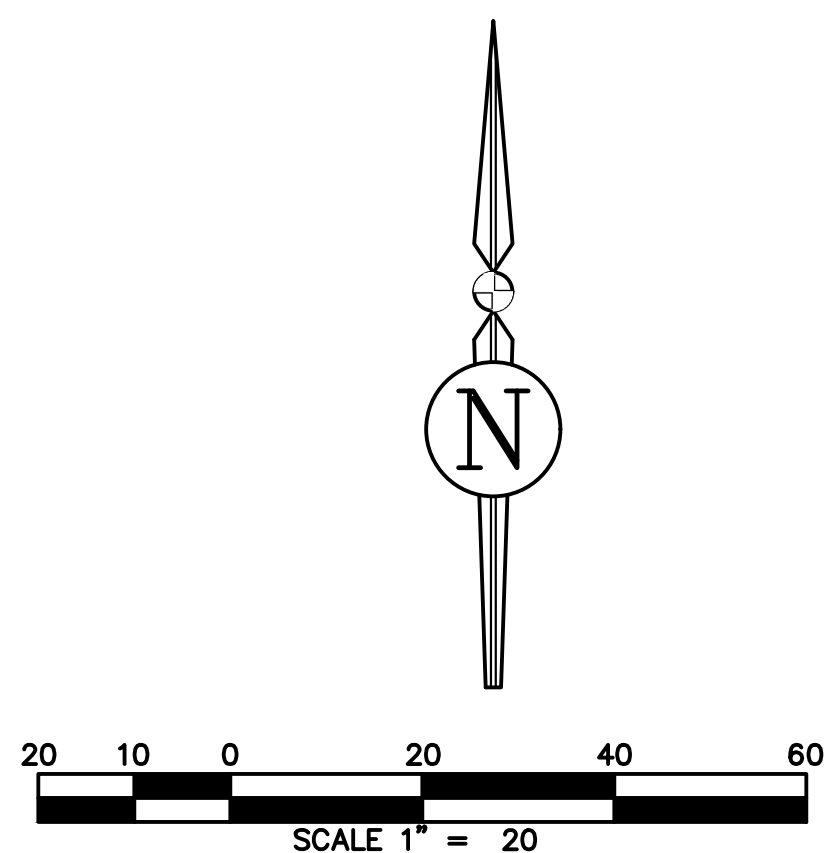
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C2.5**





- DIMENSION NOTES**
1. BOUNDARY INFORMATION SHOWN IS BASED ON THE GEOLINE SURVEY, INC BOUNDARY AND TOPOGRAPHIC SURVEY DATED 10/12/2022.
  2. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT SURVEY AND DESIGN DRAWINGS, AND SHALL VERIFY EXISTING SITE CONDITIONS. ANY APPARENT DISCREPANCIES OR ADDITIONAL PERTINENT INFORMATION SHALL BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY.
  3. ALL DIMENSIONS AND RADII SHOWN ARE DIMENSIONED TO EDGE OF PAVEMENT OR FACE OF CURB, UNLESS OTHERWISE SPECIFIED.
  4. ALL STRIPING SHALL CONFORM TO FDOT STANDARD INDEX 711-001
  5. ALL SIGNAGE TO BE INSTALLED SHALL CONFORM TO MUTCD REQUIREMENTS, 2009 VERSION W/ REV. NO. 1&2, INCORPORATED 2012.
  6. STREET SIGNS TO BE ADDED TO THE POLES OF ALL STOP SIGNS
  7. ALL SIGNAGE SHALL CONFORM TO MUTCD STANDARDS
  8. DESIGN IS PARALLEL AND PERPENDICULAR TO THE SOUTH PROPERTY LINE.



**REVISIONS**

NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**DIMENSION PLAN (CENTRAL NORTH)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

DATE:  
**DECEMBER 2022**

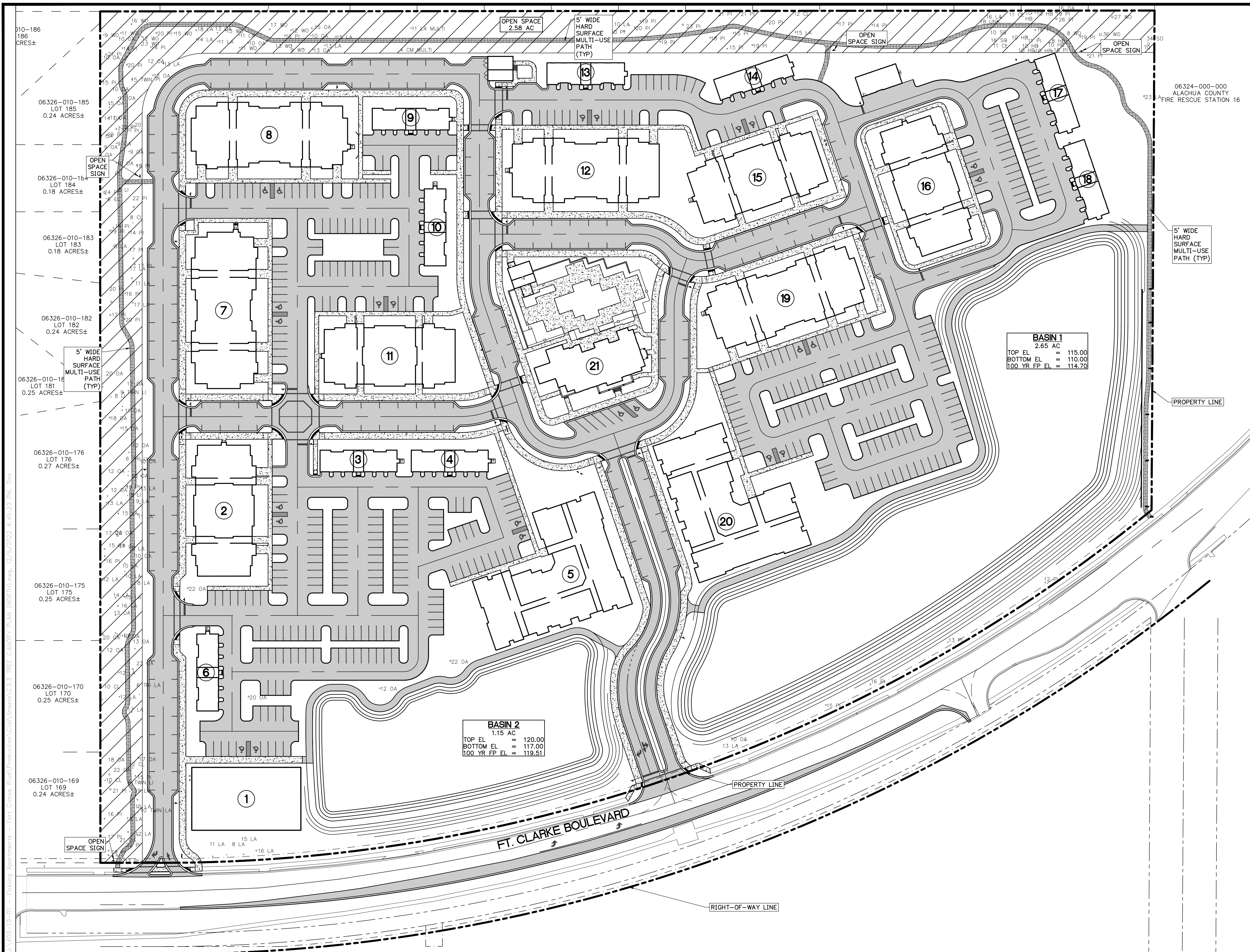
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C2.6**









- OPEN SPACE NOTES**
- THERE IS NO CONSERVATION OR NATURAL AREA PRESENT WITHIN THE LIMITS OF THE PROPOSED PROJECT THAT WOULD QUALIFY AS PRIMARY OPEN SPACE.
  - THE PROPOSED OPEN SPACE CONSISTS OF 2.58 AC. OF PROPERTY, WHICH IS COMPRISED OF NATURAL WOODED AREA "COMMUNITY GREEN SPACE". THE AREA IS ON THE SITE PERIMETER AND CONTIGUOUS.
  - A NATURAL RESOURCE ASSESSMENT WAS PERFORMED BY ECOSYSTEM RESEARCH CORPORATION IN JUNE 2021. THE FOLLOWING OBSERVATIONS WERE MADE:
    - SURFACE WATERS: ONE SURFACE WATER BOUNDARY EXIST WITHIN OR ADJACENT TO THE PROJECT AREA.
    - WETLANDS: NO WETLANDS ARE WITHIN OR ADJACENT TO THE PROJECT AREA.
    - FLOODPLAINS (100-YEAR): NO FLOODPLAIN EXISTS ON OR ADJACENT TO THE SITE.
    - LISTED SPECIES: NO LISTED SPECIES WERE OBSERVED ONSITE DURING THE ENVIRONMENTAL ASSESSMENT.
    - STRATEGIC ECOSYSTEMS: THE SITE IS NOT WITHIN OR ADJACENT TO A STRATEGIC ECOSYSTEM.
    - SIGNIFICANT GEOLOGICAL FEATURES: ONE SIGNIFICANT GEOLOGICAL FEATURE WAS OBSERVED ON OR ADJACENT TO THE SITE. THE EXISTING SINK HOLE IS PROTECTED BY A PROPOSED 60FT BUFFER.
    - HIGH AQUIFER RECHARGE AREA: THIS SITE IS LOCATED WITHIN A HIGH AQUIFER RECHARGE AREA.
  - TREE CANOPY RETENTION CALCULATIONS WERE PERFORMED PER ULDC SECTION 406.12 a) 3.4.5 (g-h) UTILIZING A GOOGLE EARTH AERIAL DATED 2019 AND A SITE VISIT. THE EXISTING TREE CANOPY IS DELINEATED ON THE TREE CANOPY PLAN - SHEET C3.1.
  - ENVIRONMENTAL DATA

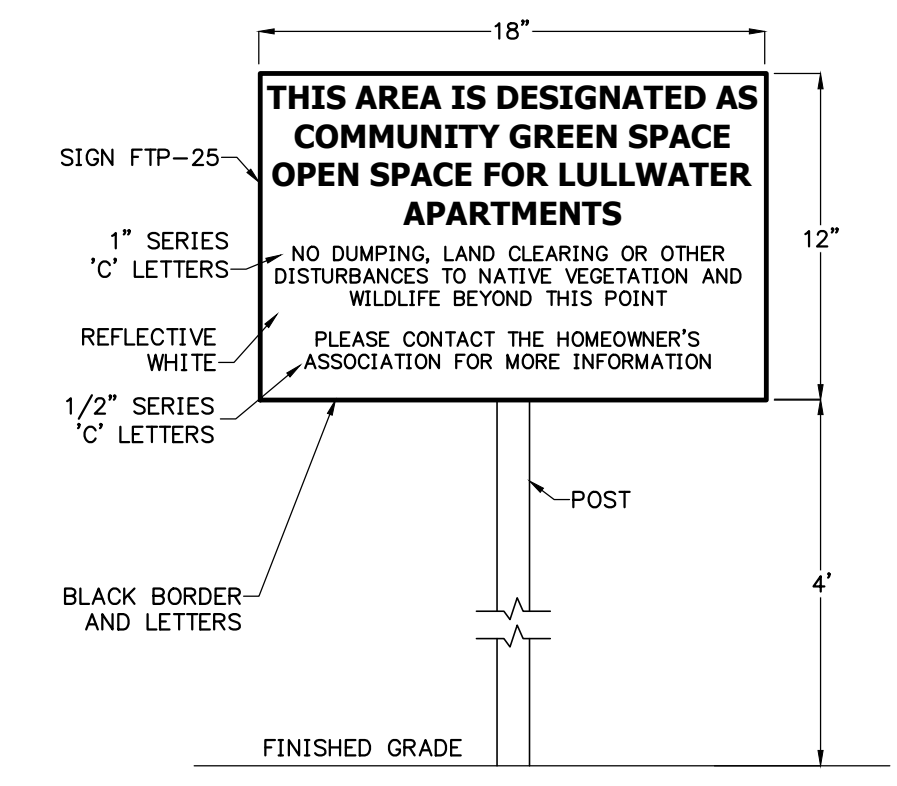
CRITERIA	REQUIRED	PROVIDED
OPEN SPACE	2.56 AC	2.58 AC
BUFFER	N/A	N/A
TREE CANOPY	.85 AC	2.81 AC

CONSERVATION OPEN SPACE TYPES (ACRES)	EXISTING	PROVIDED	% TOTAL AREA
WETLANDS	0.0 AC	0.0 AC	0.00%
WETLAND BUFFERS	0.0 AC	0.0 AC	0.00%
SURFACE WATERS	0.0 AC	0.0 AC	0.00%
SURFACE WATER BUFFERS	0.0 AC	0.0 AC	0.00%
SIGNIFICANT GEOLOGICAL FEATURES	0.0 AC	0.0 AC	0.00%
SIGNIFICANT GEOLOGICAL FEATURES BUFFERS	0.0 AC	0.0 AC	0.00%
STRATEGIC ECOSYSTEM	0.0 AC	0.0 AC	0.00%
LISTED SPECIES HABITAT	0.0 AC	0.0 AC	0.00%
100 YEAR FLOODPLAIN	0.0 AC	0.0 AC	0.00%
SIGNIFICANT HABITAT	0.0 AC	0.0 AC	0.00%
<b>NON-CONSERVATION OPEN SPACE (ACRES)</b>		<b>PROVIDED</b>	<b>% TOTAL AREA</b>
NON-CONSERVATION OPEN SPACE		2.58 AC	10.08%

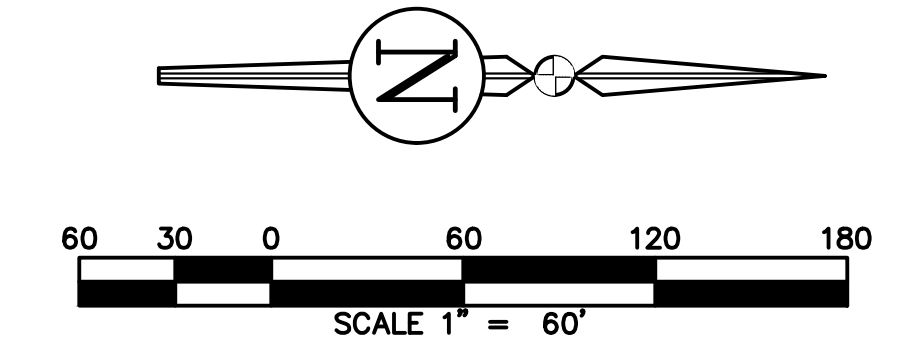
**OPEN SPACE PLAN LEGEND**

- PROPOSED OPEN SPACE
- EXISTING TREE W/ SIZE & SPECIES

**7. OPEN SPACE SIGN DETAIL**



- SIGN NOTES:**
- SIGN CONSTRUCTION, DESIGN AND PLACEMENT SHALL COMPLY WITH STATE AND LOCAL STATUTES.



**REVISIONS**

NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD:  
 LOGAN B. PETERS, P.E.  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**OPEN SPACE PLAN**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

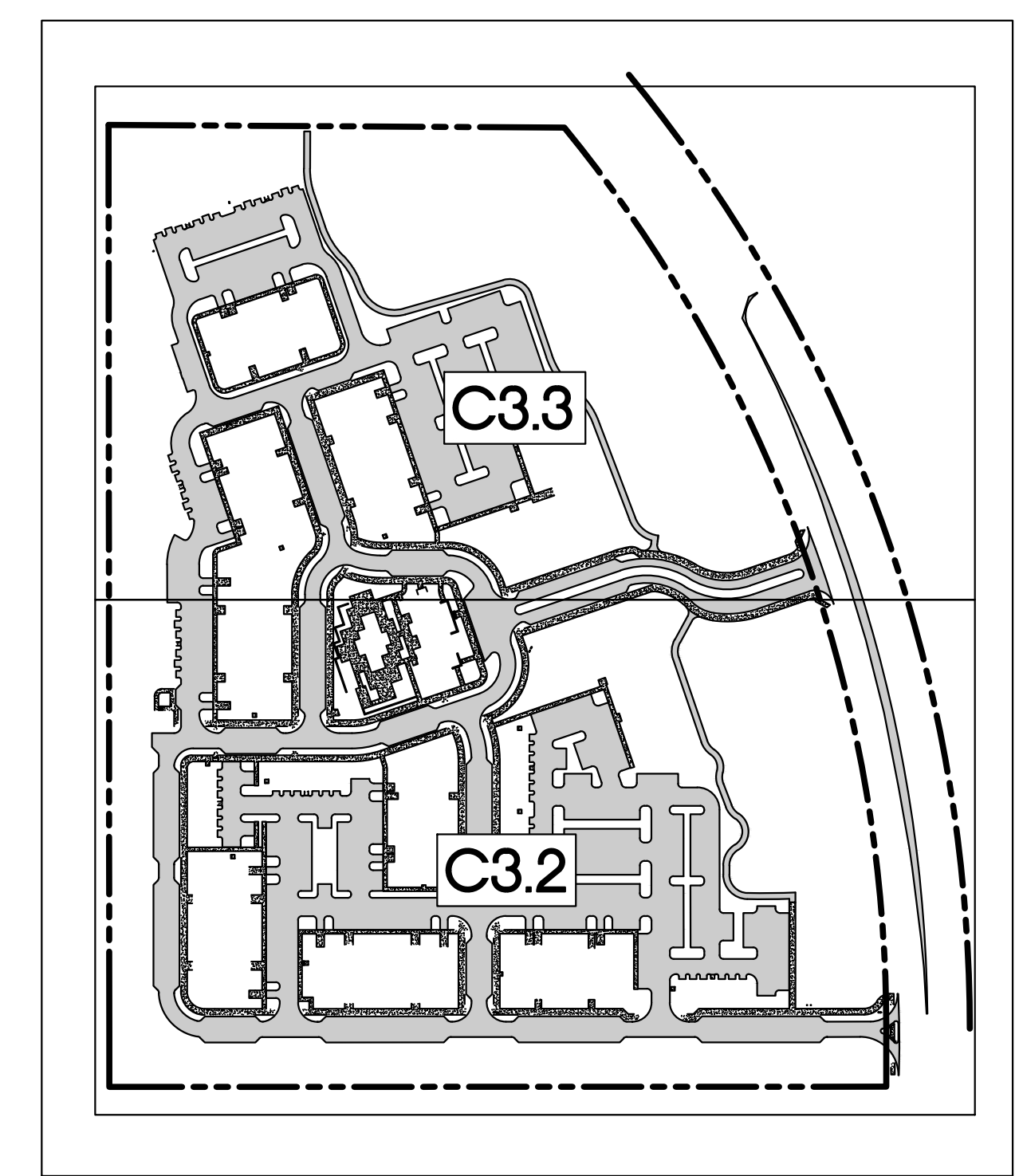
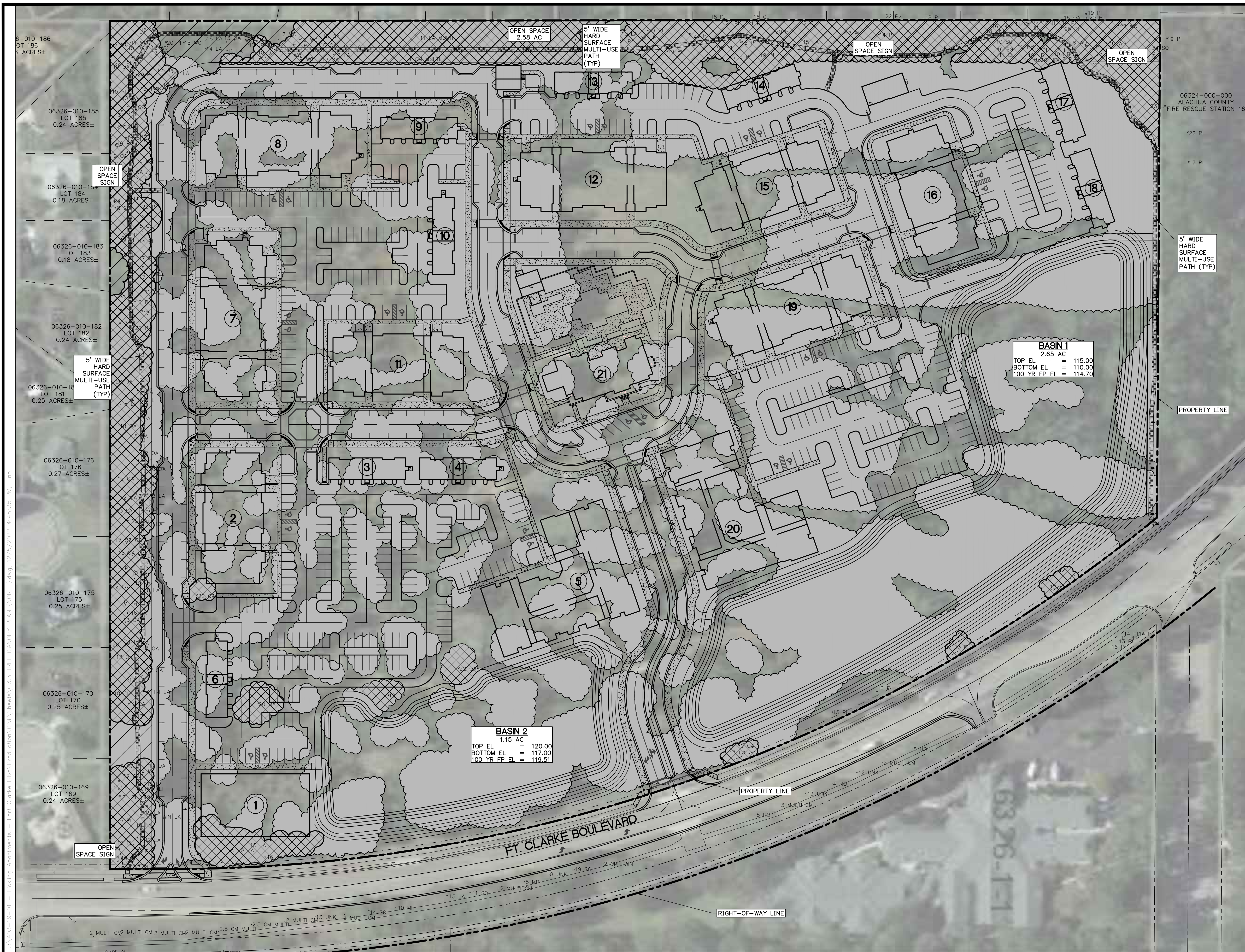
PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

SHEET NO:  
**C3.0**



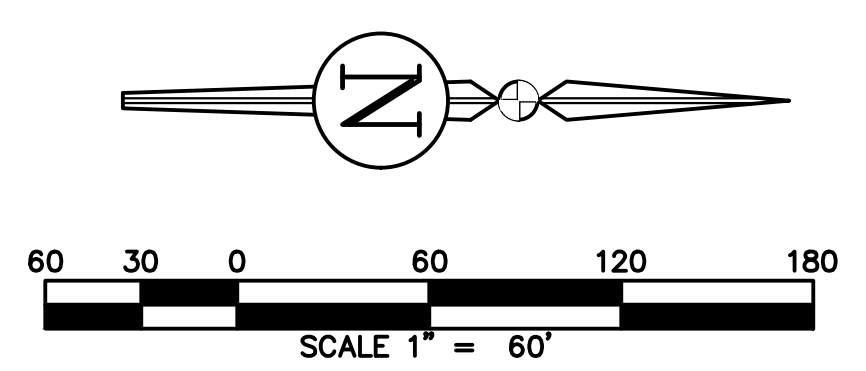


KEY SHEET INDEX  
NTS

- TREE CANOPY NOTES**
1. THE REGULATED TREE CANOPY IS REPRESENTED BY THE SHADING HATCH ON THIS SHEET. THE CANOPY WAS IDENTIFIED USING A 2022 GOOGLE EARTH AERIAL IMAGE COMBINED WITH THE TOPOGRAPHIC TREE SURVEY TO IDENTIFY THE BEST REPRESENTATION OF THE EXISTING TREE CANOPY.
  2. TOTAL SITE AREA = 1,116,763 SF (25.64 AC)
  3. REGULATED TREE CANOPY = 736,839 SF (16.92 AC)
  4. REQUIRED MINIMUM TREE CANOPY IS 5% OF EXISTING = 736,839 SF x 0.05 = 36,842 SF (.85 AC)
  5. ESTIMATED EXISTING TREE CANOPY TO BE PRESERVED = 122,360 SF (2.81 AC)
  6. PERCENT CANOPY RETAINED = 2.81 AC / 16.92 AC x 100 = 16.60%
  7. REQUIRED MINIMUM 30% MATURE TREE CANOPY OVER SITE ( @ 20 YEARS ) = 1,116,763 SF x 0.30 = 335,028.9 SF (7.69 AC)

- TREE CANOPY PLAN LEGEND**
- EXISTING REGULATED TREE CANOPY TO BE REMOVED
  - EXISTING REGULATED TREE CANOPY TO BE SAVED
  - EXISTING TREE W/ SIZE & SPECIES

- TREE ABBREVIATIONS**
- CL = CHERRY LAUREL
  - CM = CREPE MYRTLE
  - HB = HACKBERRY
  - HI = HICKORY
  - HO = HOLLY
  - LA = LAUREL OAK
  - OA = OAK
  - PI = PINE
  - SG = SWEETGUM
  - SO = SHUMARD OAK
  - UNK = UNKNOWN
  - WO = WATER OAK



REVISIONS			
NO.	DATE	DESCRIPTION	DRWN/ APPR

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
FLORIDA LICENSE NO. 88516

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CIVIL ENGINEERING | LAND PLANNING  
SURVEYING | CONSTRUCTION SERVICES

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SHEET TITLE:  
**MASTER TREE CANOPY PLAN**

CLIENT:  
**FICKLING AND CO.**  
MACON, GA

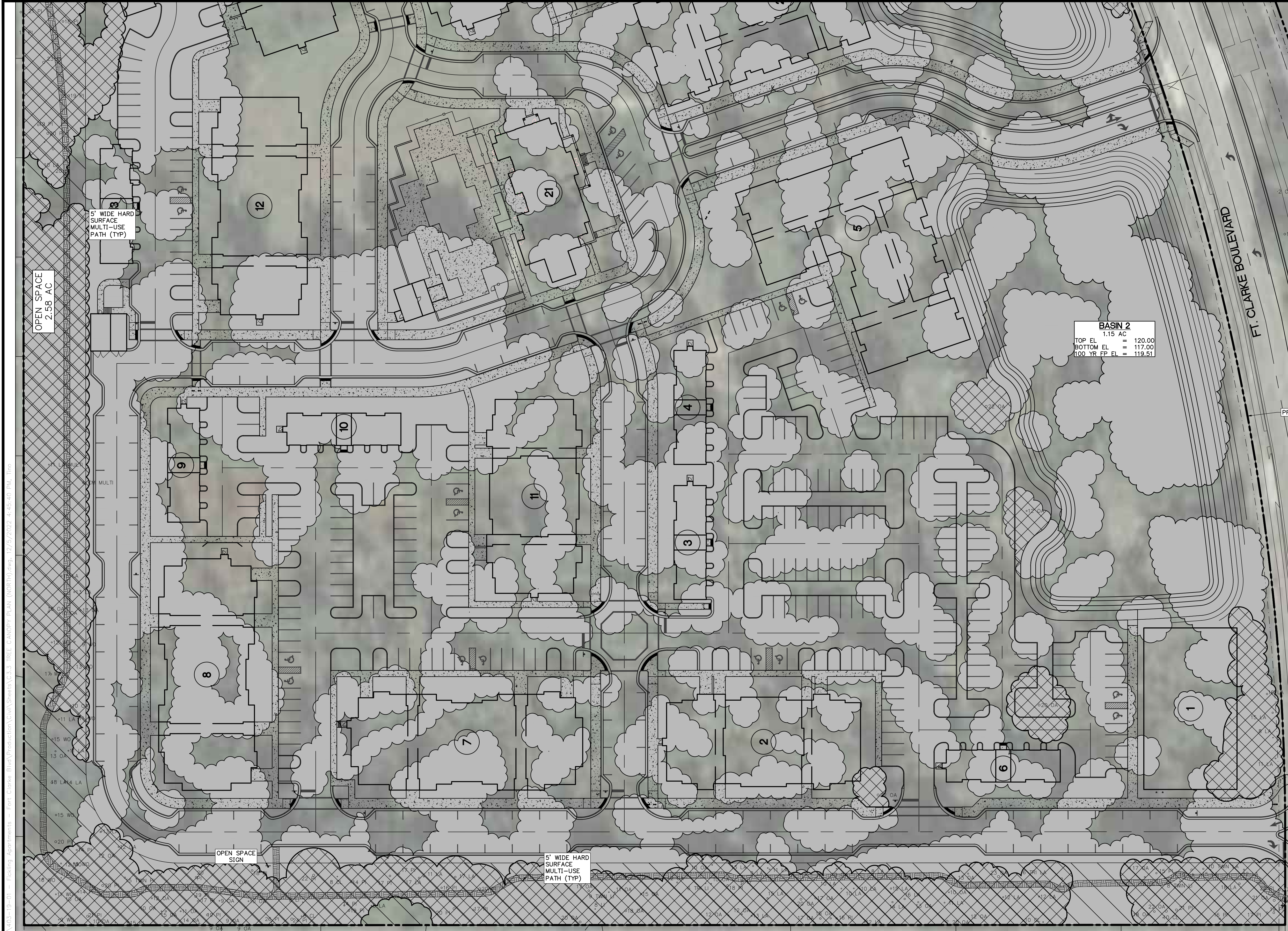
DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

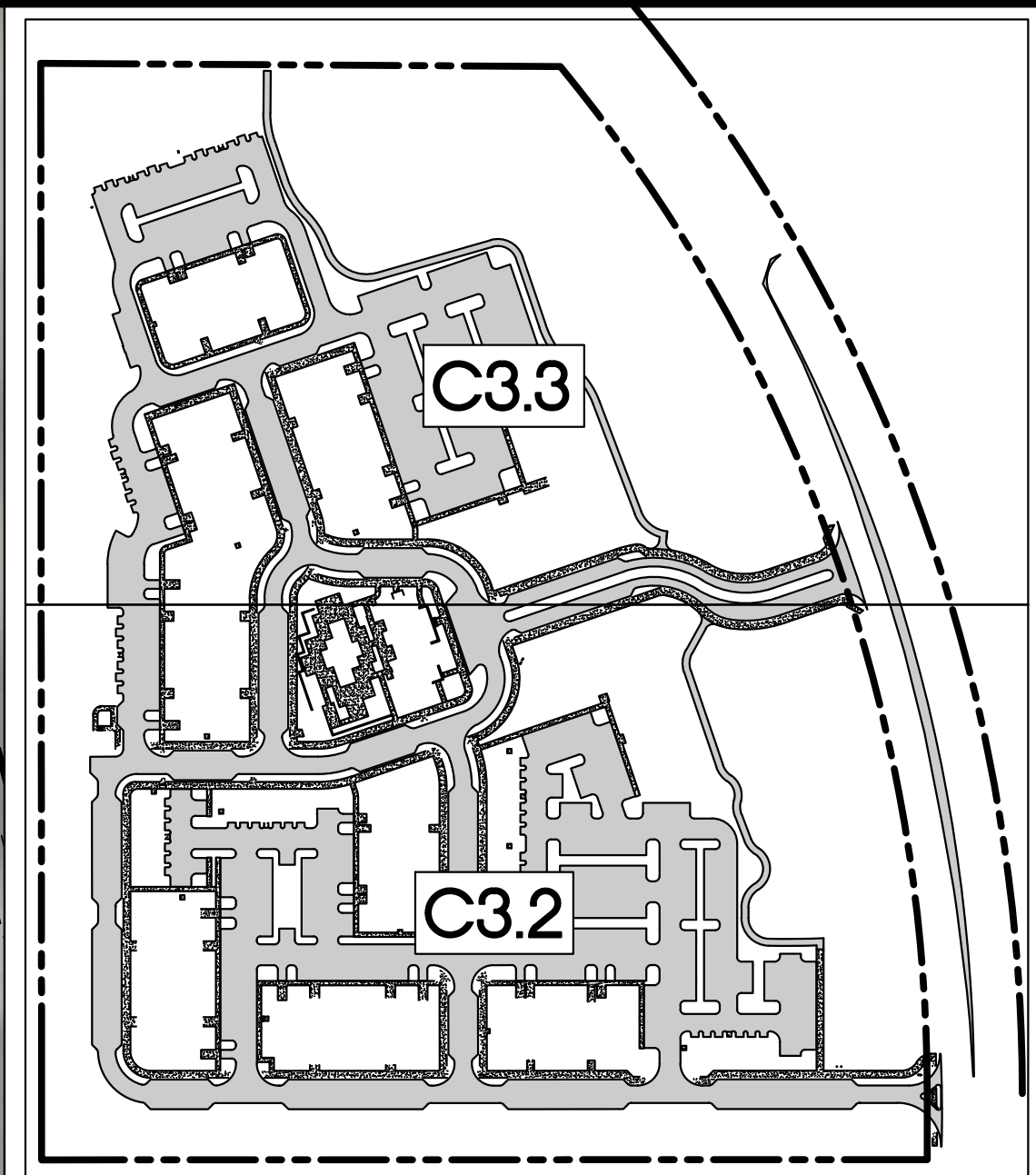
PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

SHEET NO:  
**C3.1**





**BASIN 2**  
 1.15 AC  
 TOP EL = 120.00  
 BOTTOM EL = 117.00  
 100 YR FP EL = 119.51



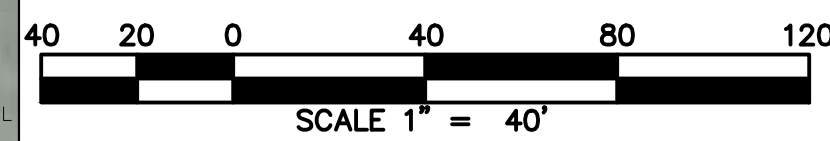
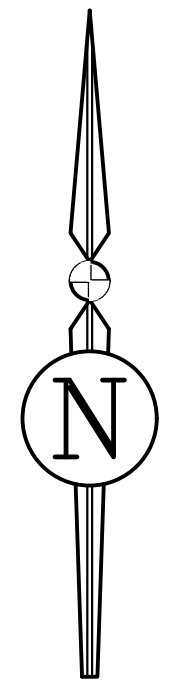
**KEY SHEET INDEX**  
NTS

**TREE CANOPY PLAN LEGEND**

- EXISTING REGULATED TREE CANOPY TO BE REMOVED
- EXISTING REGULATED TREE CANOPY TO BE SAVED
- 

**TREE ABBREVIATIONS**

- CL = CHERRY LAUREL
- CM = CREPE MYRTLE
- HB = HACKBERRY
- HI = HICKORY
- HO = HOLLY
- LA = LAUREL OAK
- OA = OAK
- PI = PINE
- SG = SWEETGUM
- SO = SHUMARD OAK
- UNK = UNKNOWN
- WO = WATER OAK



REVISIONS			DRWN	APPR
NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**TREE CANOPY PLAN (SOUTH)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

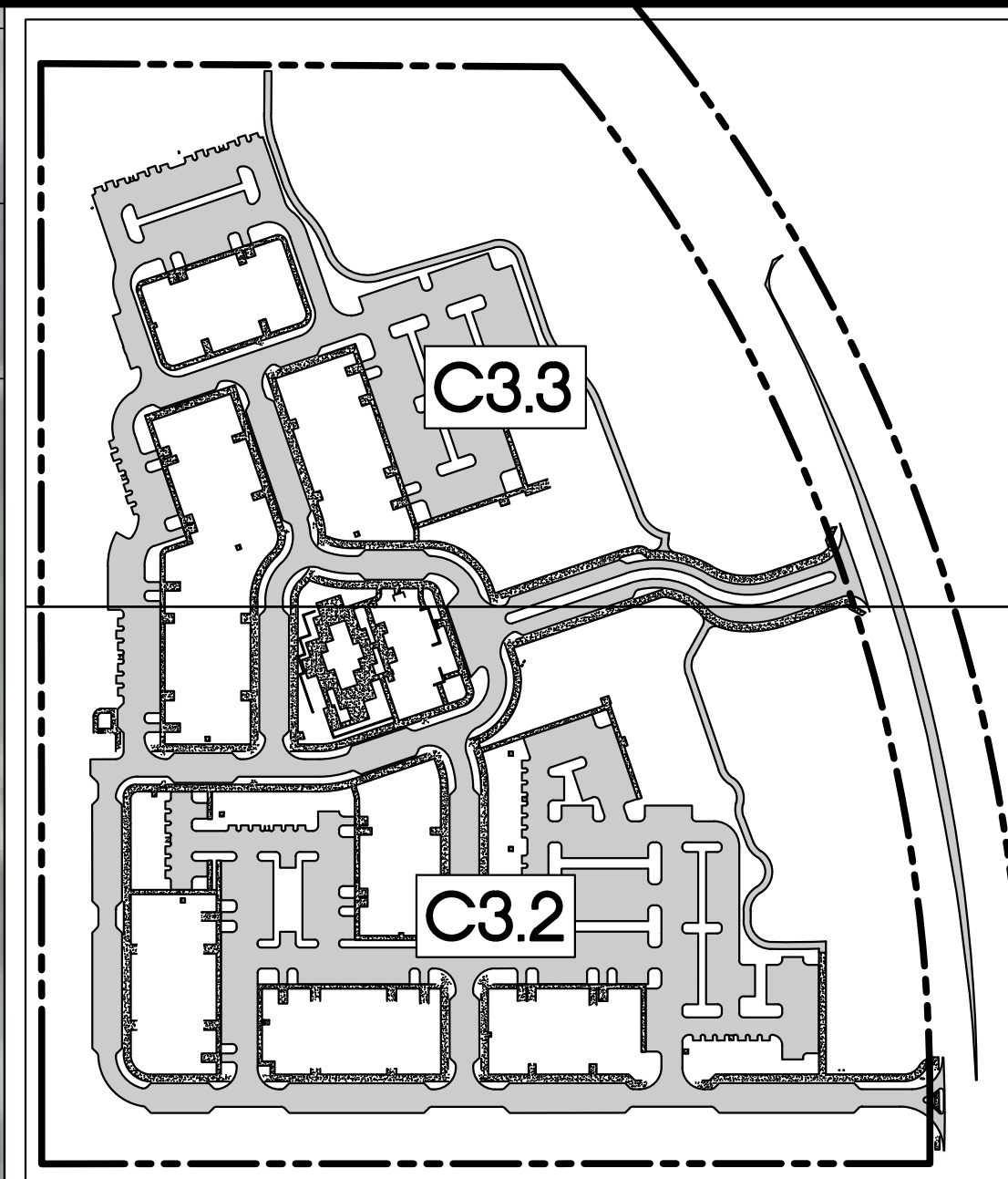
PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**




SHEET NO:  
**C3.2**





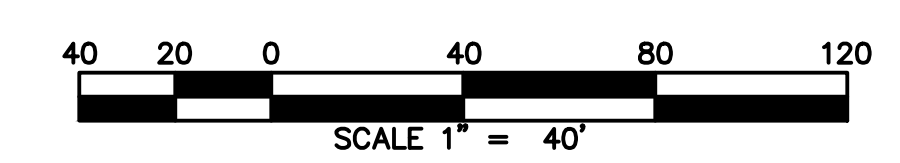
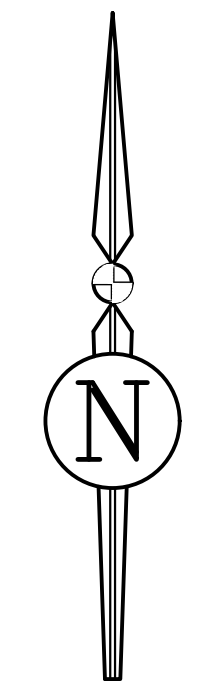
**KEY SHEET INDEX**  
NTS

**TREE CANOPY PLAN LEGEND**

-  EXISTING REGULATED TREE CANOPY TO BE REMOVED
-  EXISTING REGULATED TREE CANOPY TO BE SAVED
-  18" EXISTING TREE W/ SIZE & SPECIES

**TREE ABBREVIATIONS**

- CL = CREPE MYRTLE
- CM = CREPE MYRTLE
- HB = HACKBERRY
- HI = HICKORY
- HO = HOLLY
- LA = LAUREL OAK
- OA = OAK
- PI = PINE
- SG = SWEETGUM
- SO =
- UNK = UNKNOWN
- WO = WATER OAK



REVISIONS			DRWN	APPR
NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD:  
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Toll Free: (844) Go-JBPro | E-mail: [contact@jbpro.com](mailto:contact@jbpro.com)

SHEET TITLE:  
**TREE CANOPY PLAN (NORTH)**

CLIENT:  
**FICKLING AND CO.**  
MACON, GA

PROJECT:  
**LULLWATER AT FORT  
CLARKE BLVD**

DATE:  
**DECEMBER 2022**

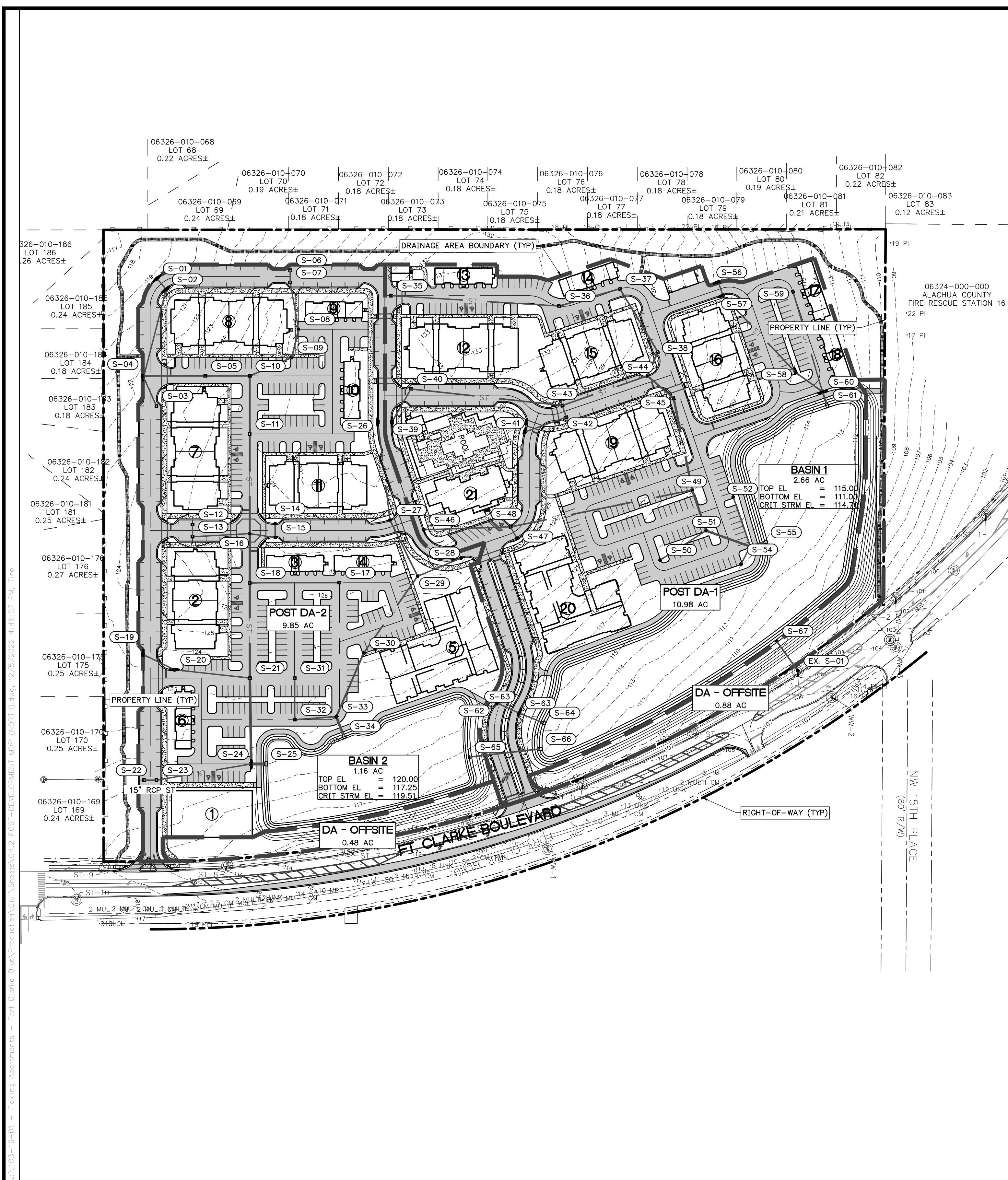
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C3.3**









**STORM STRUCTURE CURB INLET SCHEDULE**

S-01 FDOT INDEX 425-021 TYPE P6 CURB INLET PVMT EL = 120.44 NE INV EL = 117.05 (15" RCP)	S-49 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 124.05 W INV EL = 118.50 (30" RCP) E INV EL = 118.50 (30" RCP) S INV EL = 118.50 (18" RCP)
S-02 FDOT INDEX 425-021 TYPE P6 CURB INLET PVMT EL = 120.44 SW INV EL = 116.95 (15" RCP) E INV EL = 116.95 (15" RCP)	S-50 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 121.99 NW INV EL = 116.00 (15" RCP)
S-04 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 122.36 NE INV EL = 116.25 (15" RCP) W INV EL = 116.25 (15" RCP) N INV EL = 116.25 (18" RCP)	S-51 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 120.84 W INV EL = 115.50 (30" RCP) SE INV EL = 115.50 (15" RCP) N INV EL = 115.50 (30" RCP)
S-08 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 126.14 W INV EL = 119.50 (15" RCP) E INV EL = 119.50 (18" RCP)	S-52 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 119.96 E INV EL = 114.00 (15" RCP)
S-09 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 125.60 W INV EL = 119.20 (18" RCP) SE INV EL = 119.20 (18" RCP)	S-53 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 117.16 NW INV EL = 113.20 (15" RCP)
S-14 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 126.84 E INV EL = 122.00 (15" RCP)	S-54 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 117.16 W INV EL = 113.00 (15" RCP) S INV EL = 113.00 (30" RCP) SE INV EL = 113.00 (15" RCP) N INV EL = 111.15 (36" RCP)
S-15 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 126.84 W INV EL = 121.90 (15" RCP) S INV EL = 121.90 (15" RCP)	S-56 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 122.69 E INV EL = 115.50 (15" RCP)
S-19 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 123.51 NE INV EL = 119.50 (15" RCP)	S-57 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 123.51 W INV EL = 115.40 (15" RCP) NE INV EL = 115.40 (18" RCP)
S-20 FDOT INDEX 425-021 TYPE P6 CURB INLET PVMT EL = 123.38 SW INV EL = 119.20 (15" RCP) N INV EL = 119.20 (15" RCP)	S-58 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 117.35 SW INV EL = 112.00 (18" RCP) NE INV EL = 112.00 (18" RCP)
S-24 FDOT INDEX 425-021 TYPE P6 CURB INLET PVMT EL = 120.42 W INV EL = 113.60 (36" RCP) N INV EL = 113.60 (42" RCP) S INV EL = 113.60 (15" RCP)	S-60 FDOT INDEX 425-021 TYPE P6 CURB INLET PVMT EL = 115.44 SW INV EL = 111.15 (18" RCP) W INV EL = 111.15 (15" RCP) E INV EL = 111.15 (24" RCP)
S-26 FDOT INDEX 425-021 TYPE P6 CURB INLET PVMT EL = 128.71 E INV EL = 125.00 (15" RCP)	S-62 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 127.41 W INV EL = 123.50 (15" RCP) NE INV EL = 123.50 (18" RCP)
S-27 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 127.41 W INV EL = 123.50 (15" RCP) NE INV EL = 123.50 (18" RCP)	S-63 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 119.75 N INV EL = 111.30 (15" RCP)
S-28 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 126.02 SE INV EL = 122.00 (15" RCP)	S-23 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 119.75 S INV EL = 114.30 (15" RCP) N INV EL = 114.30 (15" RCP)
S-30 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 126.32 NW INV EL = 120.00 (18" RCP) SE INV EL = 120.00 (24" RCP)	S-31 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 122.12 E INV EL = 118.20 (18" RCP)
S-39 FDOT INDEX 425-021 TYPE P6 CURB INLET PVMT EL = 128.71 NW INV EL = 124.70 (15" RCP)	S-55 FDOT INDEX 430-022 MITERED END SECTION S INV EL = 111.00 (36" RCP)
S-41 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 128.59 N INV EL = 124.50 (15" RCP)	S-61 FDOT INDEX 430-022 MITERED END SECTION W INV EL = 111.00 (24" RCP)
S-44 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 125.83 NE INV EL = 121.80 (24" RCP) S INV EL = 121.80 (18" RCP) NW INV EL = 121.80 (24" RCP)	S-64 FDOT INDEX 430-022 MITERED END SECTION S INV EL = 111.00 (15" RCP)
S-46 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 127.16 N INV EL = 123.00 (15" RCP)	S-66 FDOT INDEX 430-022 MITERED END SECTION S INV EL = 111.00 (18" RCP)
S-47 FDOT INDEX 425-024 TYPE P9 CURB INLET PVMT EL = 125.59 SW INV EL = 122.10 (15" RCP)	

**STORM STRUCTURE VGI SCHEDULE**

S-03 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 123.08 SW INV EL = 119.00 (15" RCP)	S-05 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 121.43 N INV EL = 115.90 (18" RCP) S INV EL = 115.90 (18" RCP)	S-06 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 123.83 E INV EL = 120.00 (15" RCP)	S-07 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 123.83 W INV EL = 119.90 (15" RCP) E INV EL = 119.80 (15" RCP)	S-10 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 123.60 NW INV EL = 116.65 (18" RCP) E INV EL = 115.65 (24" RCP) S INV EL = 115.65 (18" RCP)	S-11 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 126.31 E INV EL = 115.35 (24" RCP) W INV EL = 115.35 (24" RCP)	S-12 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 125.22 E INV EL = 121.25 (15" RCP)	S-13 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 125.22 W INV EL = 121.15 (15" RCP) N INV EL = 121.15 (15" RCP)	S-17 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 127.79 S INV EL = 120.75 (15" RCP)	S-18 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 125.12 N INV EL = 114.55 (15" RCP) W INV EL = 114.55 (30" RCP) E INV EL = 114.55 (30" RCP)	S-21 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 123.20 W INV EL = 114.05 (30" RCP) S INV EL = 114.05 (15" RCP)	S-22 FDOT INDEX 425-041 TYPE V GUTTER INLET PVMT EL = 119.75 N INV EL = 114.30 (15" RCP) N INV EL = 114.30 (15" RCP)
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**STORM STRUCTURE MES SCHEDULE**

S-25 FDOT INDEX 430-022 MITERED END SECTION S INV EL = 113.50 (42" RCP)	S-34 FDOT INDEX 430-022 MITERED END SECTION W INV EL = 117.25 (36" RCP)
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**STORM STRUCTURE MANHOLE SCHEDULE**

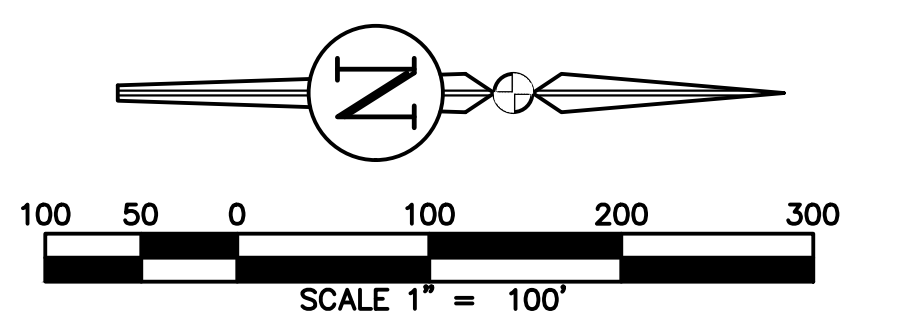
S-16 FDOT INDEX 425-010 TYPE P8 MANHOLE RIM EL = 126.15 S INV EL = 119.80 (15" RCP) N INV EL = 119.80 (15" RCP) W INV EL = 114.80 (24" RCP) E INV EL = 114.80 (30" RCP)	S-29 FDOT INDEX 425-010 TYPE P8 MANHOLE RIM EL = 129.00 NW INV EL = 121.50 (15" RCP) SW INV EL = 121.50 (18" RCP) NE INV EL = 106.00 (18" RCP)
--	--

**STORM STRUCTURE DBI SCHEDULE**

S-65 FDOT INDEX 425-052 TYPE C DBI S INV EL = 118.25 (10" X 16.5" WEIR) GRATE EL = 119.00 N INV EL = 112.00 (18" RCP)	S-67 FDOT INDEX 425-052 TYPE C DBI SW INV EL = 111.75 (2" X 5" WEIR) GRATE EL = 114.50 NE INV EL = 106.00 (18" RCP)
--	--

**STORM PIPE TABLE**

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE & MATERIAL	LENGTH	SLOPE
S-01	S-02	15" RCP	23'	0.44%
S-02	S-04	15" RCP	144'	0.49%
S-03	S-04	15" RCP	53'	5.22%
S-04	S-05	18" RCP	100'	0.35%
S-05	S-10	18" RCP	71'	0.35%
S-06	S-07	15" RCP	20'	0.50%
S-07	S-08	15" RCP	76'	0.39%
S-08	S-09	18" RCP	47'	0.64%
S-09	S-10	18" RCP	74'	4.82%
S-10	S-11	24" RCP	93'	0.32%
S-11	S-16	24" RCP	160'	0.34%
S-12	S-13	15" RCP	20'	0.50%
S-13	S-16	15" RCP	92'	1.47%
S-14	S-15	15" RCP	22'	0.45%
S-15	S-16	15" RCP	41'	5.10%
S-16	S-18	30" RCP	79'	0.32%
S-17	S-18	15" RCP	144'	4.31%
S-18	S-21	30" RCP	153'	0.33%
S-19	S-20	15" RCP	56'	0.54%
S-20	S-21	15" RCP	122'	4.23%
S-21	S-24	36" RCP	138'	0.33%
S-22	S-23	15" RCP	20'	0.50%
S-23	S-24	15" RCP	154'	0.45%
S-24	S-25	42" RCP	23'	0.44%
S-26	S-27	15" RCP	159'	0.94%
S-27	S-29	18" RCP	101'	1.99%
S-28	S-29	15" RCP	76'	0.66%
S-29	S-30	18" RCP	151'	1.00%
S-30	S-33	24" RCP	111'	2.25%
S-31	S-32	18" RCP	67'	0.52%
S-32	S-33	18" RCP	67'	0.52%
S-33	S-34	36" RCP	34'	0.74%
S-35	S-36	15" RCP	271'	0.52%
S-36	S-37	18" RCP	102'	0.59%
S-37	S-38	18" RCP	118'	0.42%
S-38	S-44	24" RCP	42'	0.48%
S-39	S-40	15" RCP	61'	0.65%
S-40	S-43	18" RCP	245'	0.53%
S-41	S-42	15" RCP	71'	1.83%
S-42	S-43	15" RCP	20'	1.00%
S-43	S-44	18" RCP	145'	0.83%
S-44	S-45	24" RCP	56'	0.54%
S-45	S-49	30" RCP	150'	2.00%
S-46	S-48	15" RCP	140'	0.72%
S-47	S-48	15" RCP	21'	0.48%
S-48	S-49	18" RCP	298'	1.17%
S-49	S-51	30" RCP	69'	4.35%
S-50	S-51	15" RCP	88'	0.57%
S-51	S-54	30" RCP	75'	3.32%
S-52	S-54	15" RCP	84'	1.19%
S-53	S-54	15" RCP	32'	0.63%
S-54	S-55	36" RCP	25'	0.60%
S-56	S-57	15" RCP	22'	0.44%
S-57	S-58	18" RCP	170'	2.00%
S-58	S-60	18" RCP	53'	1.60%
S-59	S-60	15" RCP	167'	0.81%
S-60	S-61	24" RCP	23'	0.66%
S-62	S-63	15" RCP	39'	0.77%
S-63	S-64	15" RCP	41'	0.74%
S-65	S-66	18" RCP	114'	0.87%
S-67	EX. S-01	18" RCP	59'	3.40%



REVISIONS			
NO.	DATE	DESCRIPTION	DRWN APPR

ENGINEER OF RECORD:	LOGAN B. PETERS, P.E. FLORIDA LICENSE NO. 88516
---------------------	--

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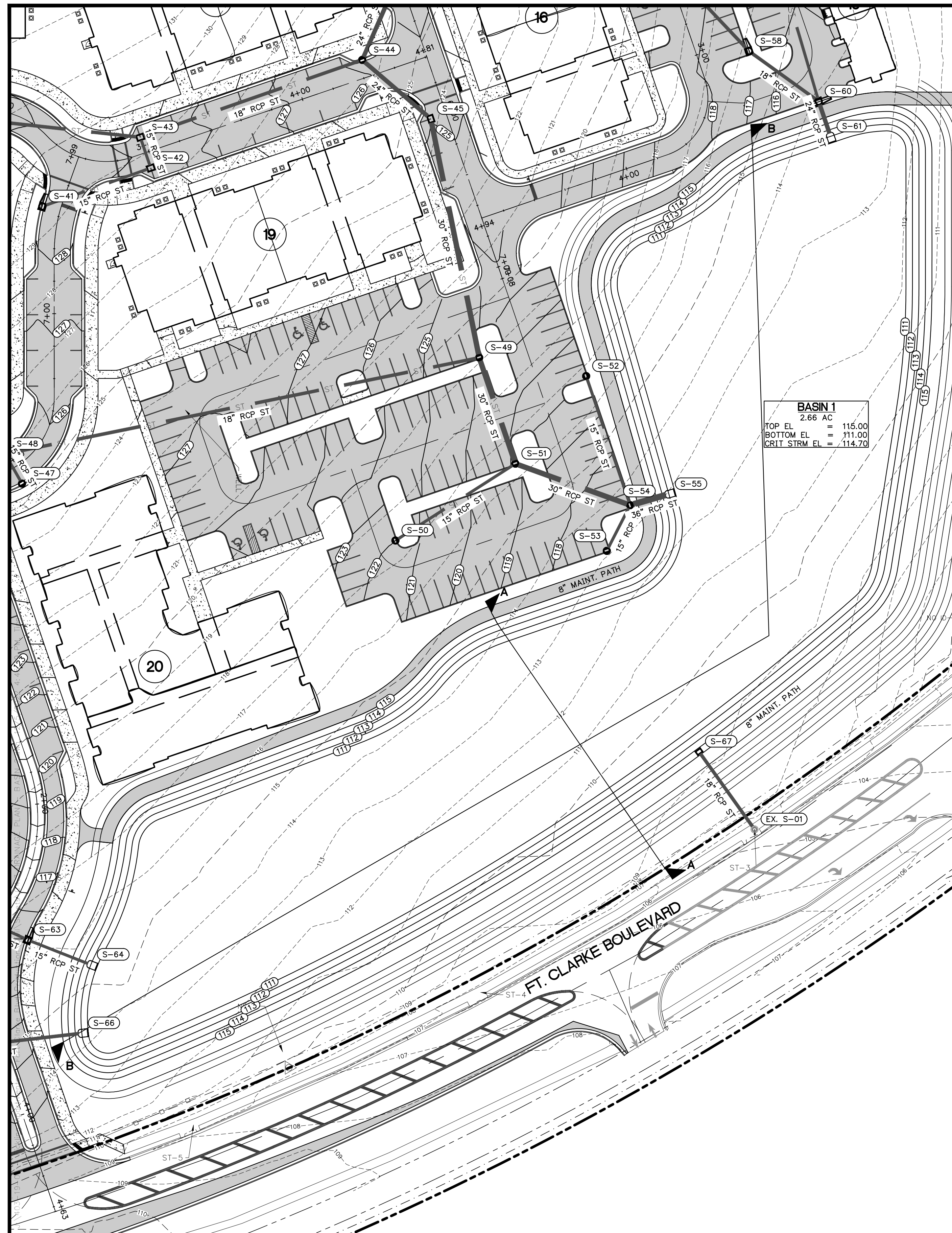
SHEET TITLE: **POST-DEVELOPMENT MASTER DRAINAGE PLAN**

CLIENT: **FICKLING AND CO. MACON, GA**

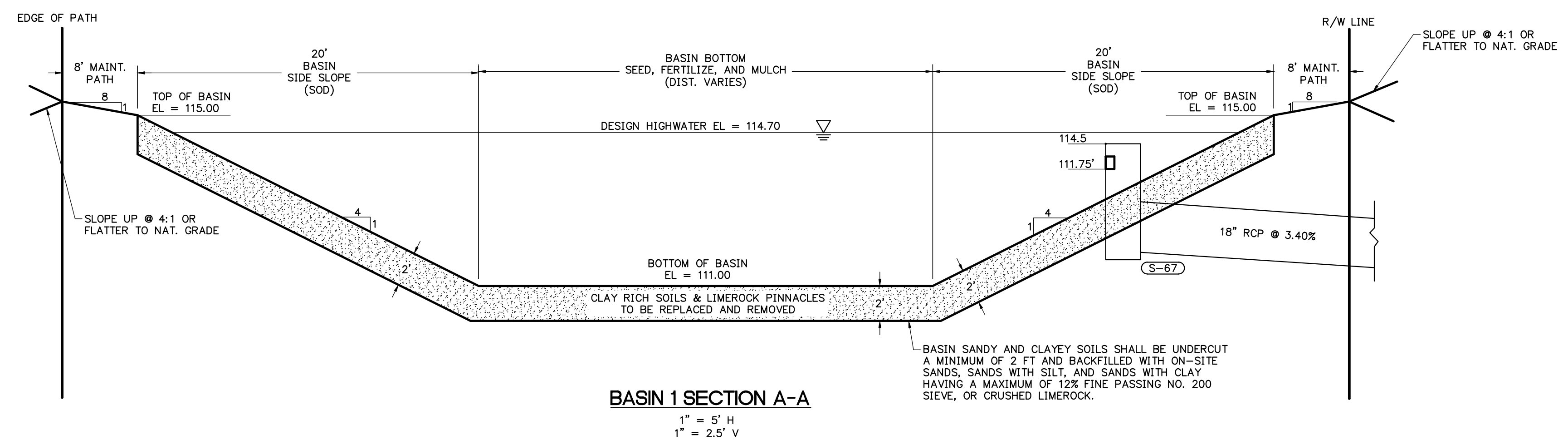
PROJECT: **LULLWATER AT FORT CLARKE BLVD**

DATE:	DECEMBER 2022
PROJECT NO:	403-19-01
SHEET NO:	<b>C4.1</b>

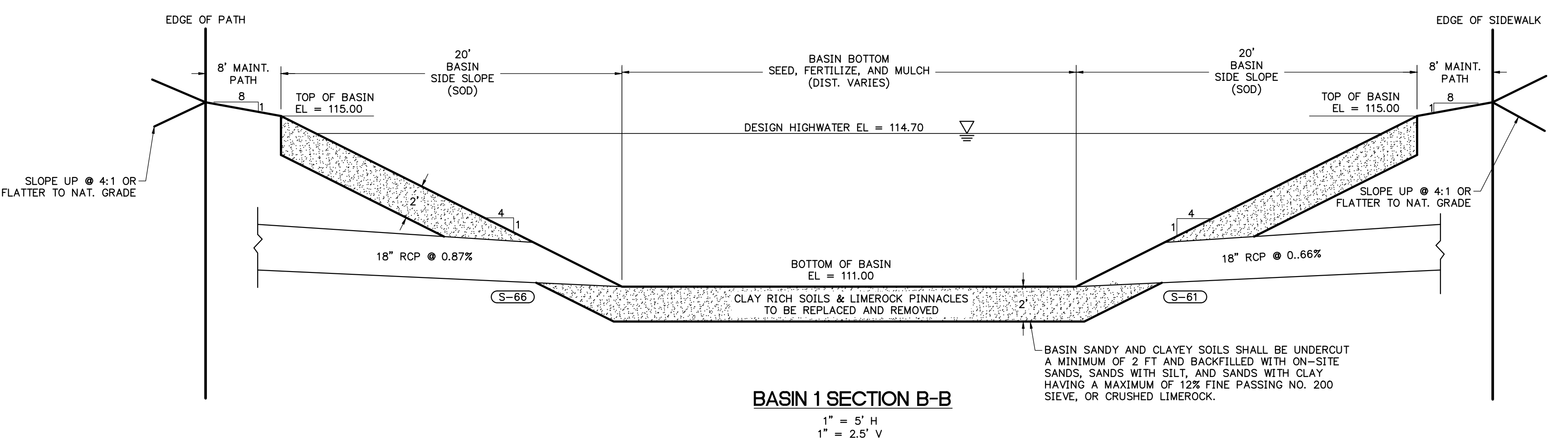




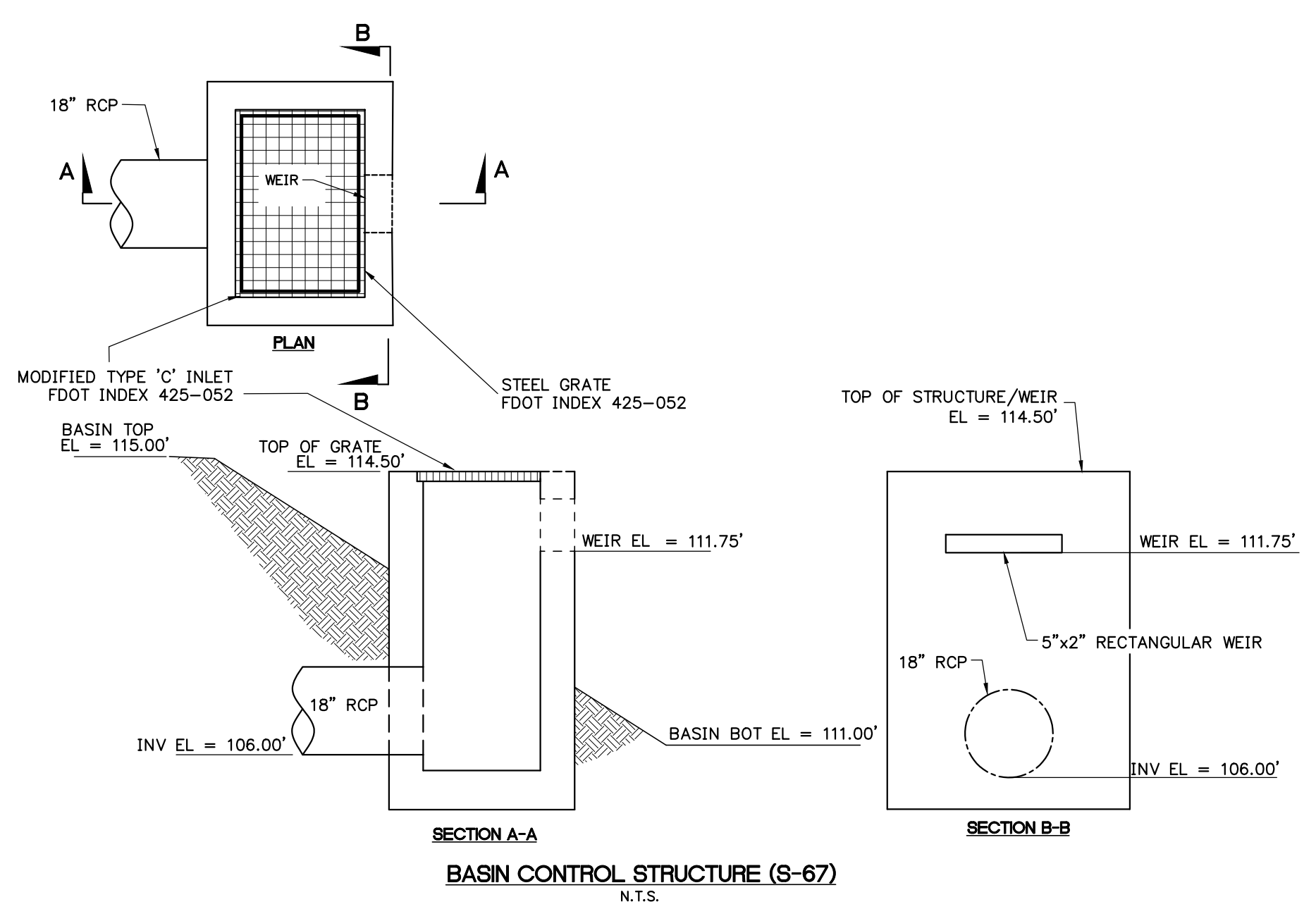
**BASIN 1**  
 TOP EL. 2.66 AC = 115.00  
 BOTTOM EL. = 111.00  
 CRIT. STRM EL. = 114.70



**BASIN 1 SECTION A-A**  
 1" = 5' H  
 1" = 2.5' V



**BASIN 1 SECTION B-B**  
 1" = 5' H  
 1" = 2.5' V

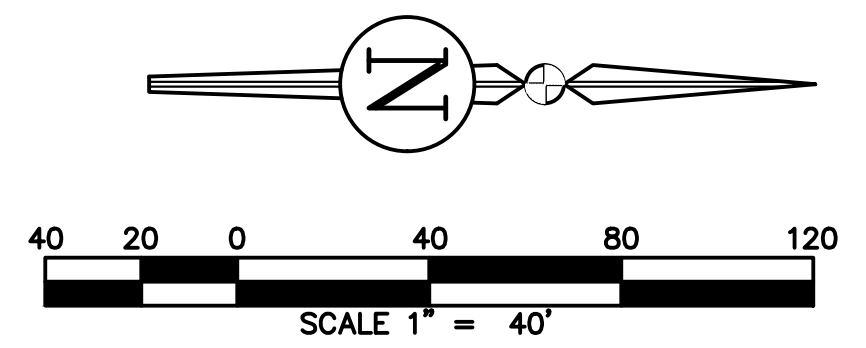


**BASIN CONTROL STRUCTURE (S-67)**  
 N.T.S.

STORM STRUCTURE TABLE	
DBI	MES
S-65 FDOT INDEX 425-052 TYPE C DBI S INV EL = 118.25 (10" X 16.5" WEIR) GRATE EL = 119.00 N INV EL = 112.00 (18" RCP)	S-55 FDOT INDEX 430-022 MITERED END SECTION S INV EL = 111.00 (36" RCP) W INV EL = 113.00 (15" RCP) SE INV EL = 113.00 (30" RCP) N INV EL = 111.15 (36" RCP)
S-67 FDOT INDEX 425-052 TYPE C DBI SW INV EL = 111.75 (2" X 5" WEIR) GRATE EL = 114.50 NE INV EL = 106.00 (18" RCP)	S-61 FDOT INDEX 430-022 MITERED END SECTION W INV EL = 111.00 (24" RCP)
<b>MANHOLES</b> EX. S-01 EX. CURB INLET RIM EL = 113.21 SW INV EL = 104.00 (18" RCP)	S-64 FDOT INDEX 430-022 MITERED END SECTION S INV EL = 111.00 (15" RCP)
	S-66 FDOT INDEX 430-022 MITERED END SECTION S INV EL = 111.00 (18" RCP)
	S-63 FDOT INDEX 425-021 TYPE P5 CURB INLET PVMT EL = 115.00 SW INV EL = 111.30 (15" RCP) N INV EL = 111.30 (15" RCP)

STORM PIPE TABLE				
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE & MATERIAL	LENGTH	SLOPE
S-54	S-55	36" RCP	25'	0.60%
S-60	S-61	24" RCP	23'	0.66%
S-63	S-64	15" RCP	41'	0.74%
S-65	S-66	18" RCP	114'	0.87%
S-67	EX. S-01	18" RCP	59'	3.40%



REVISIONS			
NO.	DATE	DESCRIPTION	DRWN/APPR

ENGINEER OF RECORD:  
 LOGAN B. PETERS, P.E.  
 FLORIDA LICENSE NO. 88516

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 Toll Free: (844) Go-JBPro | E-mail: contact@jbpro.com

SHEET TITLE:  
**DRAINAGE PLAN - BASIN 1**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

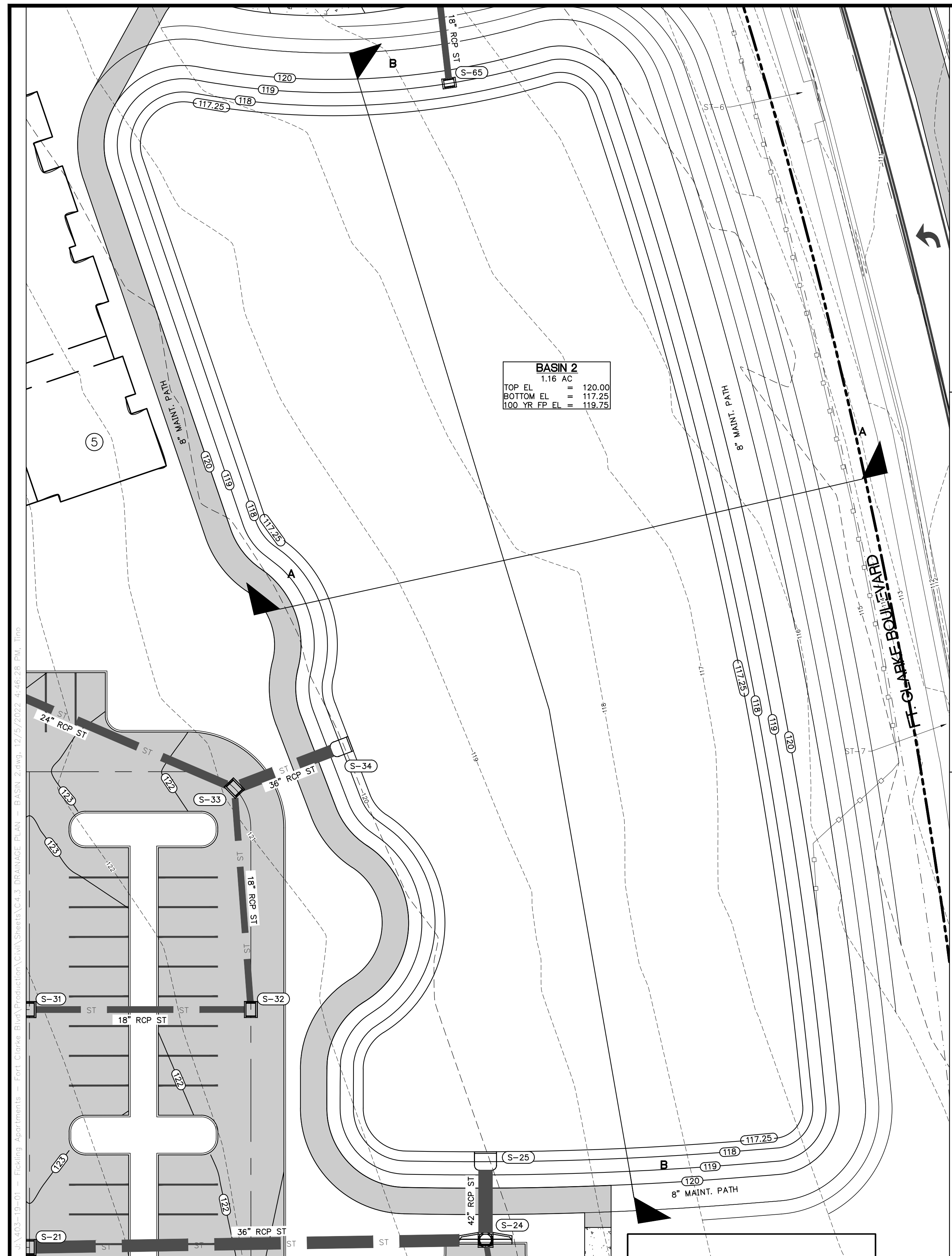
PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

DATE:  
**DECEMBER 2022**

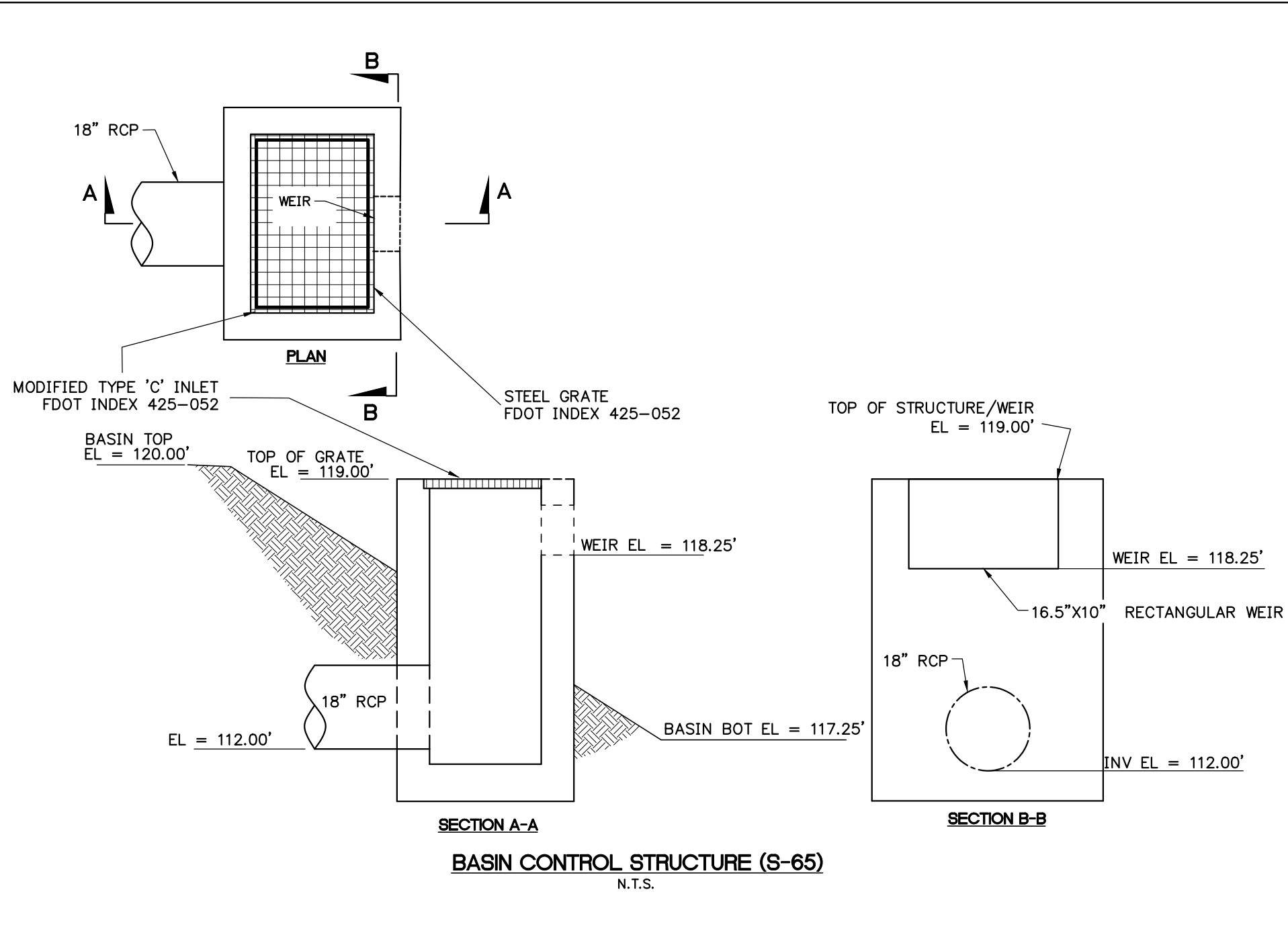
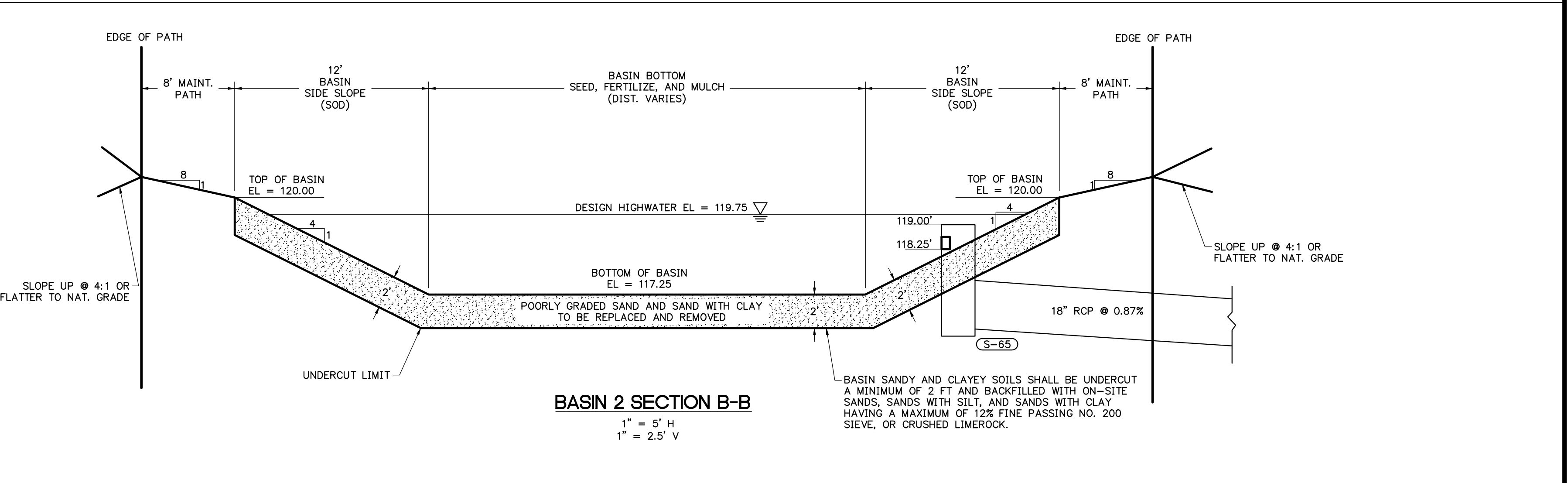
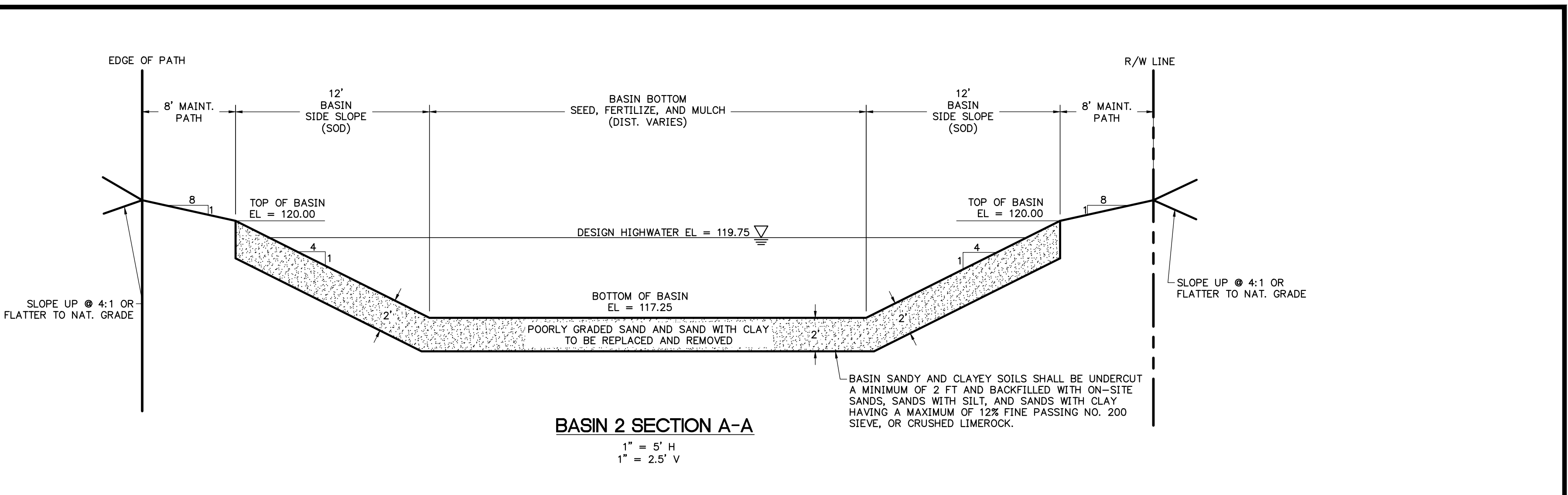
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C4.2**





**BASIN 2**  
 1.16 AC  
 TOP EL = 120.00  
 BOTTOM EL = 117.25  
 100 YR FP EL = 119.75



STORM STRUCTURE TABLE		
DBI	MES	CURB INLET
S-65 FDOT INDEX 425-052 TYPE C DBI S INV EL = 118.25 (10' X 16.5' WEIR) GRATE EL = 119.00 N INV EL = 112.00 (18" RCP)	S-25 FDOT INDEX 430-022 MITERED END SECTION S INV EL = 113.50 (42" RCP)	S-24 FDOT INDEX 425-021 TYPE P6 CURB INLET PWT EL = 120.42 W INV EL = 113.60 (36" RCP) N INV EL = 113.60 (42" RCP) S INV EL = 113.60 (15" RCP)
S-33 FDOT INDEX 425-041 TYPE V GUTTER INLET PWT EL = 121.30 NW INV EL = 117.50 (24" RCP) E INV EL = 117.50 (36" RCP) S INV EL = 117.50 (18" RCP)	S-34 FDOT INDEX 430-022 MITERED END SECTION W INV EL = 117.25 (36" RCP)	

STORM PIPE TABLE				
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE & MATERIAL	LENGTH	SLOPE
S-24	S-25	42" RCP	23'	0.44%
S-33	S-34	36" RCP	34'	0.74%
S-65	S-66	18" RCP	114'	0.87%

REVISIONS			
NO.	DATE	DESCRIPTION	DRWN/APPR

ENGINEER OF RECORD:  
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 FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**DRAINAGE PLAN - BASIN 2**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

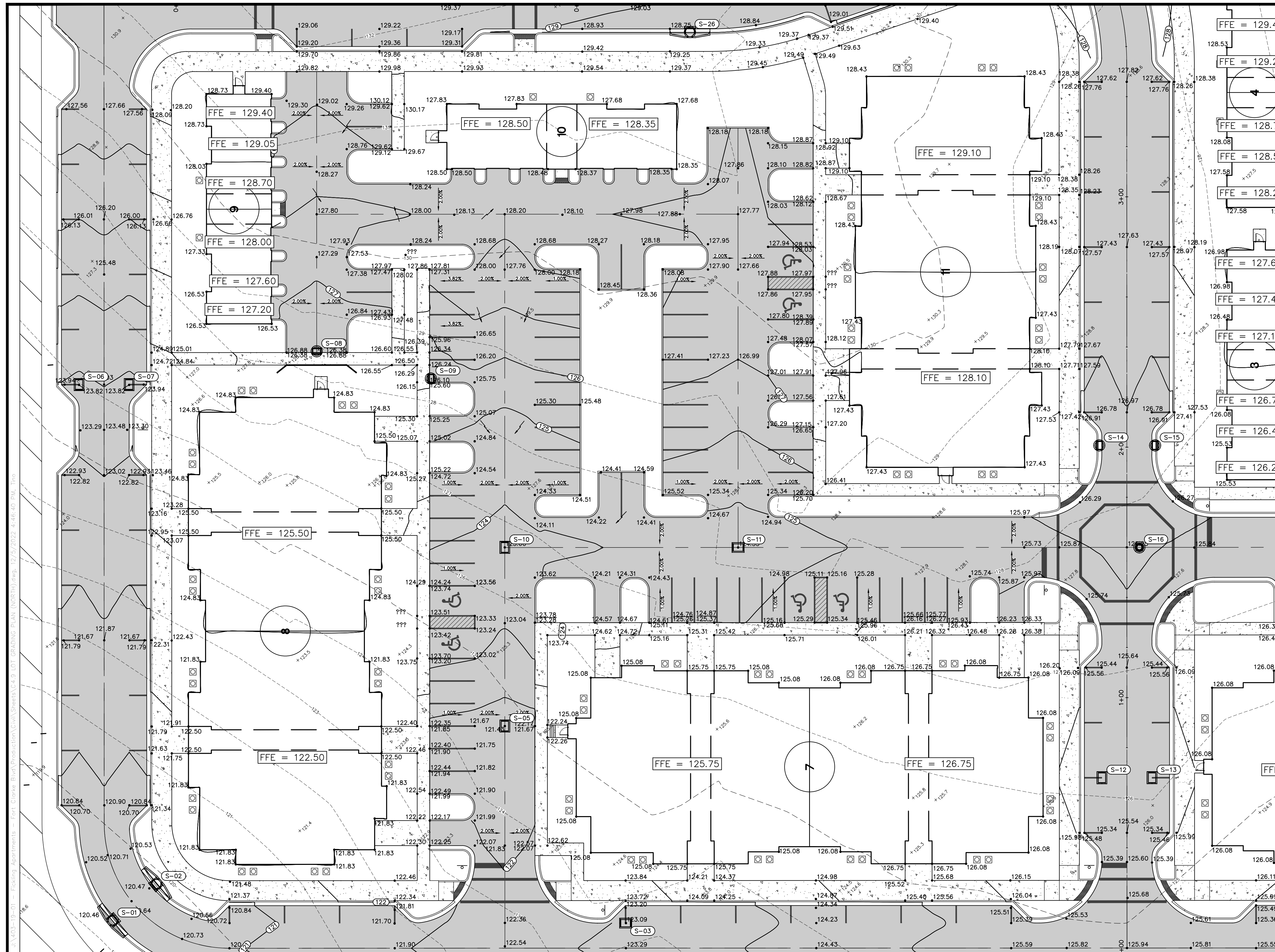
PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

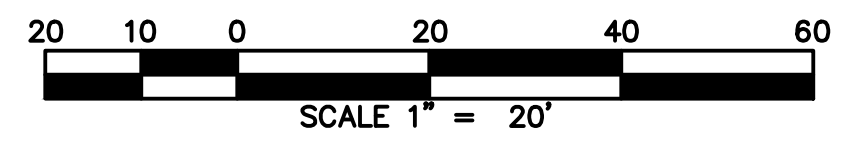
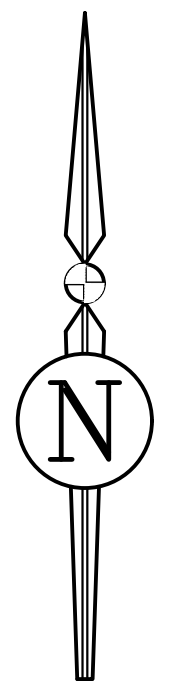
SHEET NO:  
**C4.3**





- NOTES:**
1. DRIVEWAYS SHOWN ON THESE PLANS MUST BE PROVIDED AT SPECIFIED LOCATION.
  2. ALL CONSTRUCTION SHALL DIRECT ALL STORMWATER RUNOFF FROM ANY LOT IMPROVEMENTS INTO THE STORMWATER SYSTEM
  3. PADS CAN BE GRADED AT ANY TIME.

- LEGEND**
- PROPOSED ASPHALT PAVEMENT
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED SPOT ELEVATION
  - EXISTING SPOT ELEVATION
  - PROPOSED FINISH ELEVATION CONTOUR



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NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD:  
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SHEET TITLE:  
**BLOCK GRADING PLAN (SOUTH WEST)**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

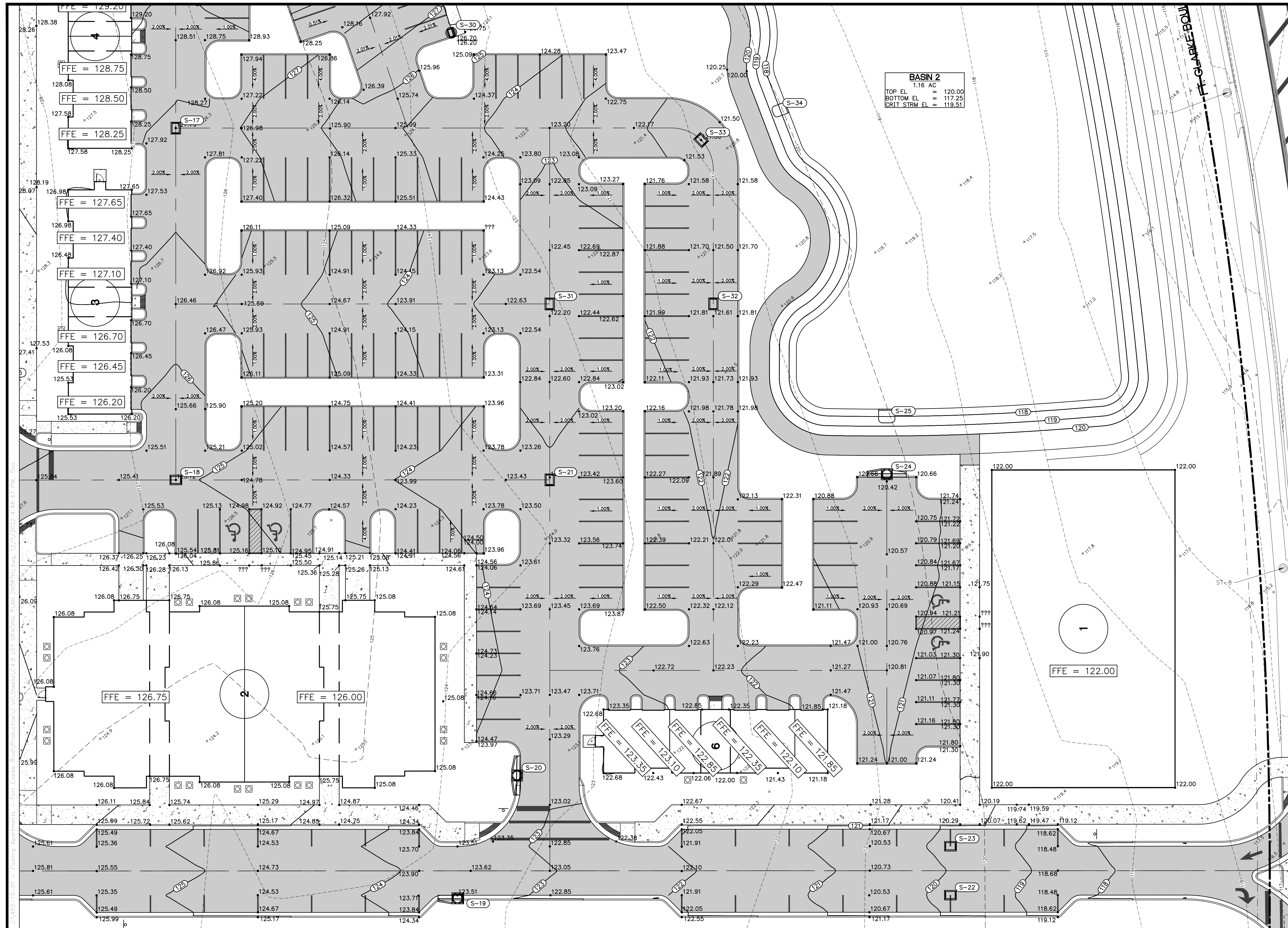
PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

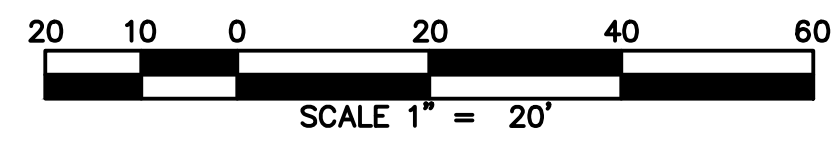
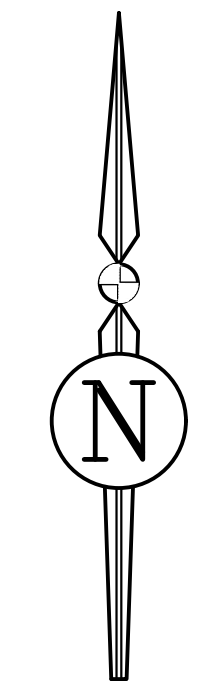
SHEET NO:  
**C4.4**





- NOTES:**
1. DRIVEWAYS SHOWN ON THESE PLANS MUST BE PROVIDED AT SPECIFIED LOCATION.
  2. ALL CONSTRUCTION SHALL DIRECT ALL STORMWATER RUNOFF FROM ANY LOT IMPROVEMENTS INTO THE STORMWATER SYSTEM.
  3. PADS CAN BE GRADED AT ANY TIME.

- LEGEND**
- PROPOSED ASPHALT PAVEMENT
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED SPOT ELEVATION
  - EXISTING SPOT ELEVATION
  - PROPOSED FINISH ELEVATION CONTOUR



REVISIONS		DRWN	APPR
NO.	DATE	DESCRIPTION	

ENGINEER OF RECORD:  
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SHEET TITLE:  
**BLOCK GRADING PLAN (SOUTH EAST)**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

PROJECT:  
**LULLWATER AT FORT  
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DATE:  
**DECEMBER 2022**

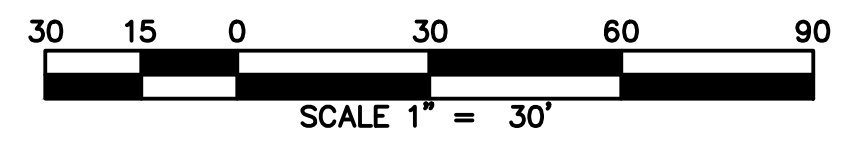
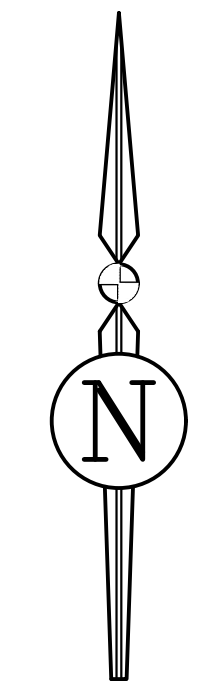
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C4.5**





- LEGEND**
- PROPOSED ASPHALT PAVEMENT
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED SPOT ELEVATION
  - EXISTING SPOT ELEVATION
  - PROPOSED FINISH ELEVATION CONTOUR



REVISIONS			DRWN	APPR
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SHEET TITLE:  
**BLOCK GRADING PLAN (CENTRAL WEST)**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

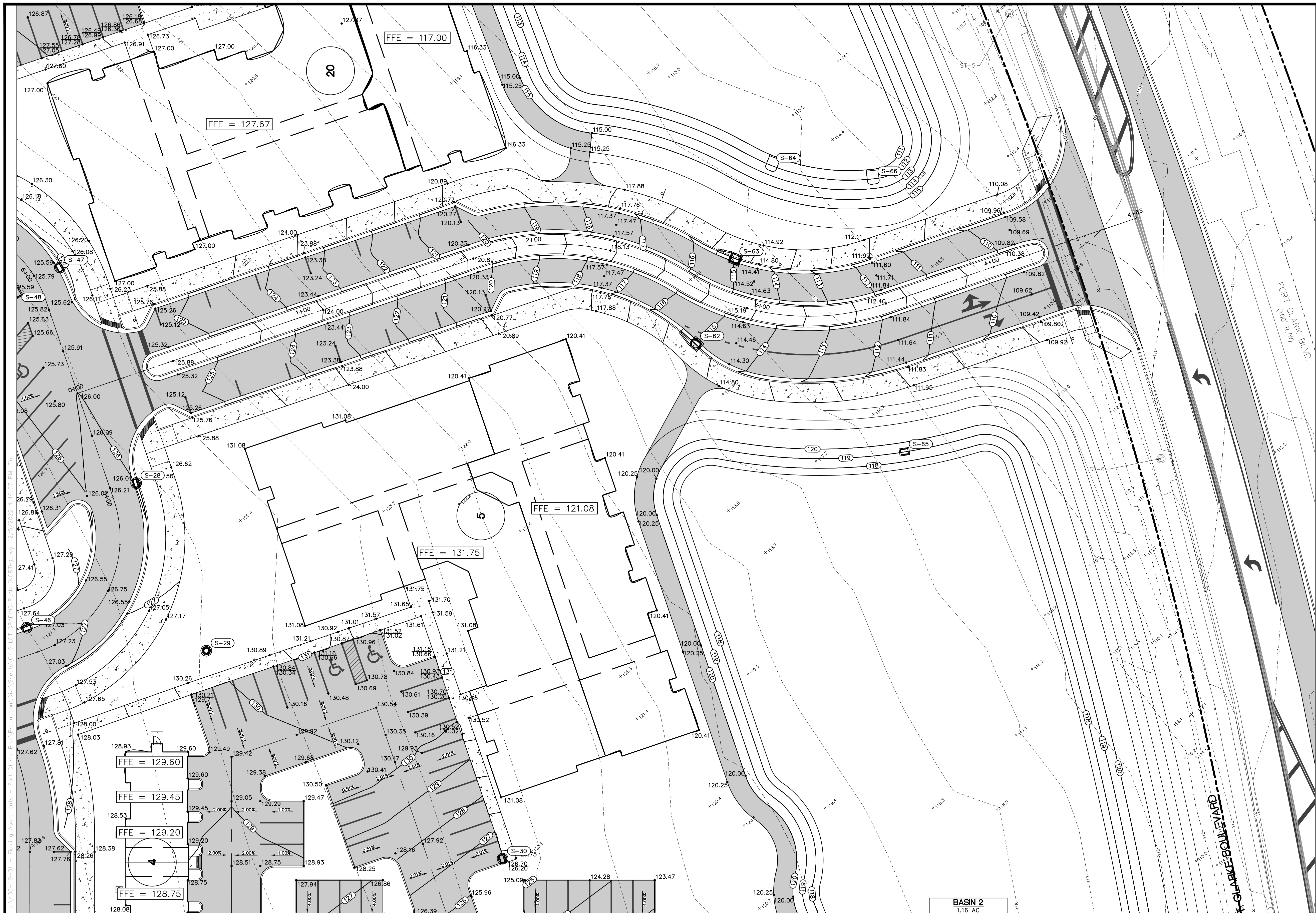
PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

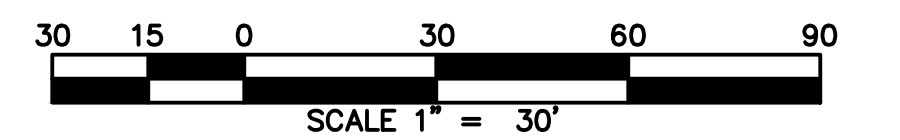
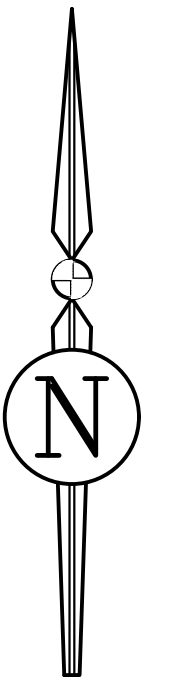
SHEET NO:  
**C4.6**





**NOTES:**

- LEGEND**
- PROPOSED ASPHALT PAVEMENT
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED SPOT ELEVATION
  - EXISTING SPOT ELEVATION
  - PROPOSED FINISH ELEVATION CONTOUR



REVISIONS		DRWN	APPR
NO.	DATE	DESCRIPTION	

ENGINEER OF RECORD:  
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SHEET TITLE:  
**BLOCK GRADING PLAN (CENTRAL EAST)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

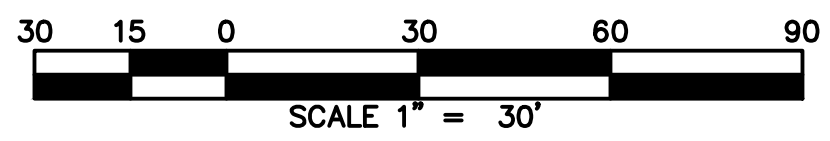
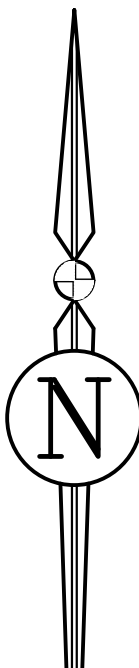
SHEET NO:  
**C4.7**





- NOTES:**
1. DRIVEWAYS SHOWN ON THESE PLANS MUST BE PROVIDED AT SPECIFIED LOCATION.
  2. ALL CONSTRUCTION SHALL DIRECT ALL STORMWATER RUNOFF FROM ANY LOT IMPROVEMENTS INTO THE STORMWATER SYSTEM.
  3. PADS CAN BE GRADED AT ANY TIME.

- LEGEND**
- PROPOSED ASPHALT PAVEMENT
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED SPOT ELEVATION
  - EXISTING SPOT ELEVATION
  - PROPOSED FINISH ELEVATION CONTOUR



REVISIONS			DRWN	APPR
NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD:  
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SHEET TITLE:  
**BLOCK GRADING PLAN (CENTRAL NORTH)**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

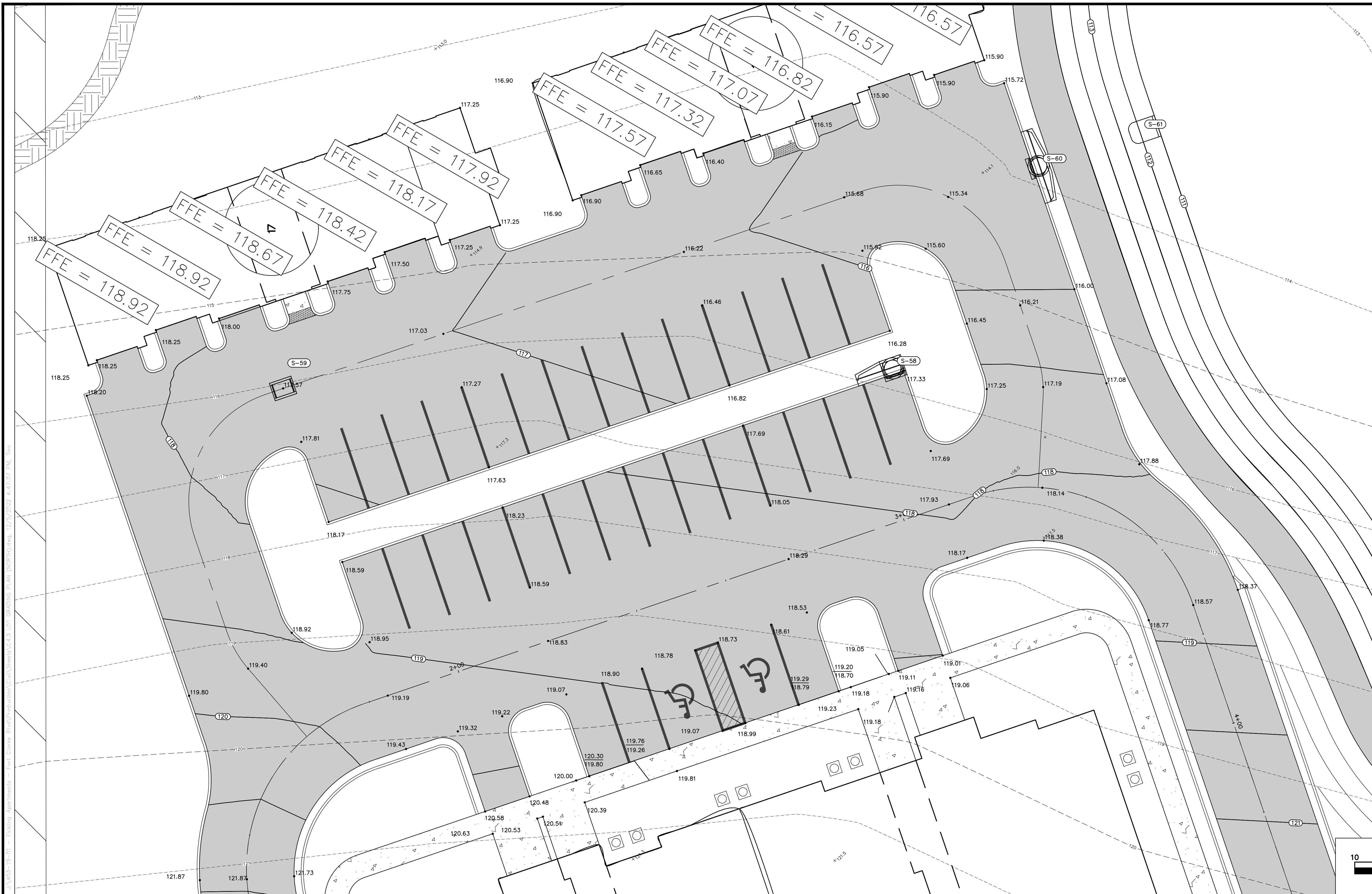
PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

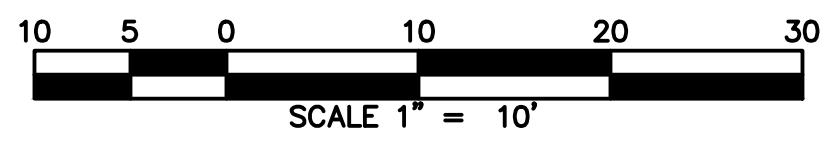
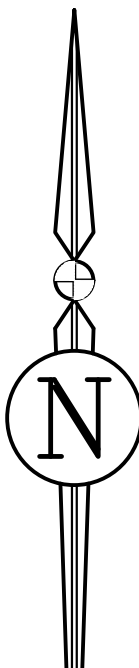
SHEET NO:  
**C4.8**





- NOTES:**
1. DRIVEWAYS SHOWN ON THESE PLANS MUST BE PROVIDED AT SPECIFIED LOCATION.
  2. ALL CONSTRUCTION SHALL DIRECT ALL STORMWATER RUNOFF FROM ANY LOT IMPROVEMENTS INTO THE STORMWATER SYSTEM.
  3. PADS CAN BE GRADED AT ANY TIME.

- LEGEND**
- PROPOSED ASPHALT PAVEMENT
  - PROPOSED CONCRETE SIDEWALK
  - \*86.00 PROPOSED SPOT ELEVATION
  - \*88.00 EXISTING SPOT ELEVATION
  - PROPOSED FINISH ELEVATION CONTOUR



REVISIONS			DRWN	APPR
NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**BLOCK GRADING PLAN (NORTH)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

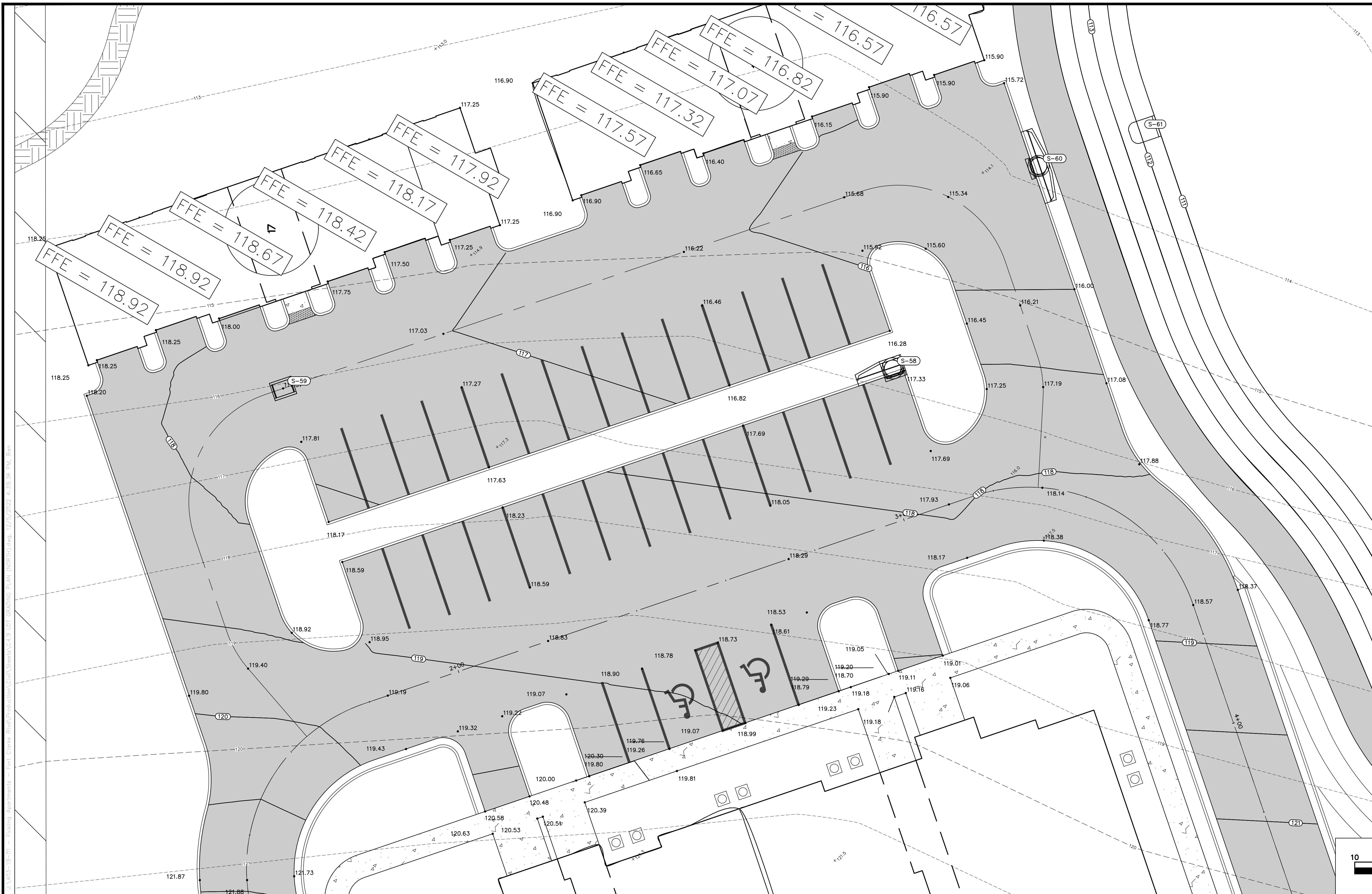
PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

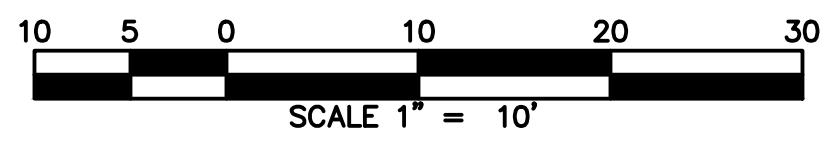
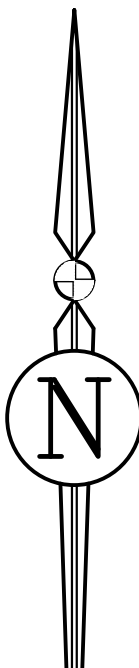
SHEET NO:  
**C4.9**





- NOTES:**
1. DRIVEWAYS SHOWN ON THESE PLANS MUST BE PROVIDED AT SPECIFIED LOCATION.
  2. ALL CONSTRUCTION SHALL DIRECT ALL STORMWATER RUNOFF FROM ANY LOT IMPROVEMENTS INTO THE STORMWATER SYSTEM.
  3. PADS CAN BE GRADED AT ANY TIME.

- LEGEND**
- PROPOSED ASPHALT PAVEMENT
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED SPOT ELEVATION
  - EXISTING SPOT ELEVATION
  - PROPOSED FINISH ELEVATION CONTOUR



REVISIONS			DRWN	APPR
NO.	DATE	DESCRIPTION		

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 Toll Free: (844) Go-JBPro | E-mail: [contact@jbpro.com](mailto:contact@jbpro.com)

SHEET TITLE:  
**LOT GRADING PLAN (NORTH)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

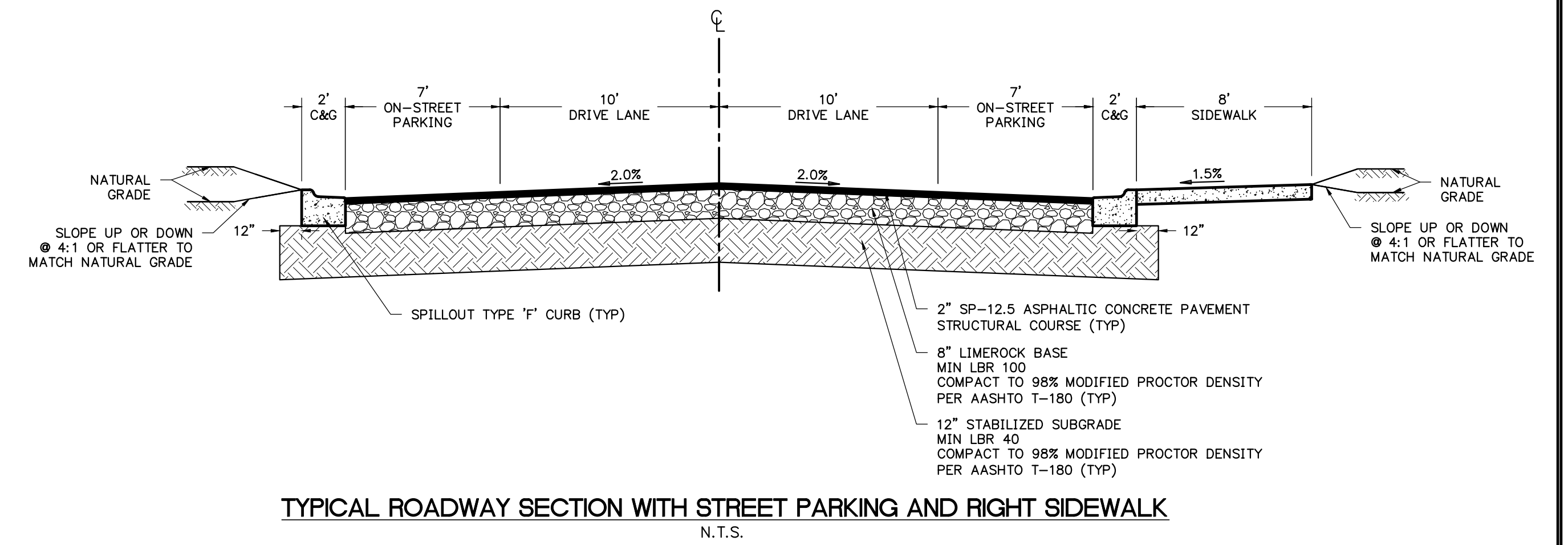
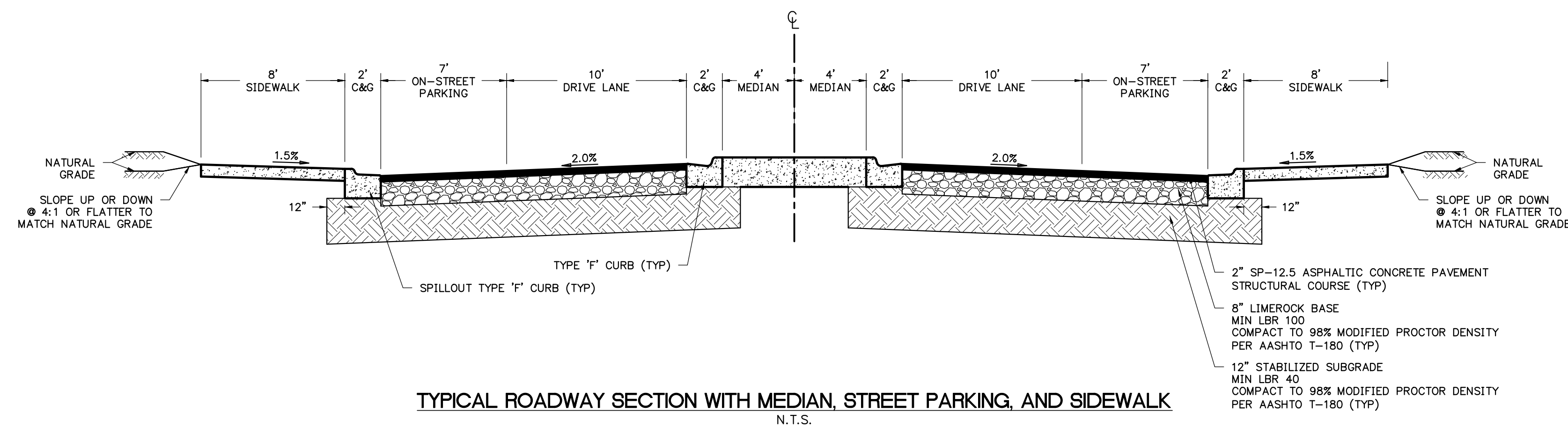
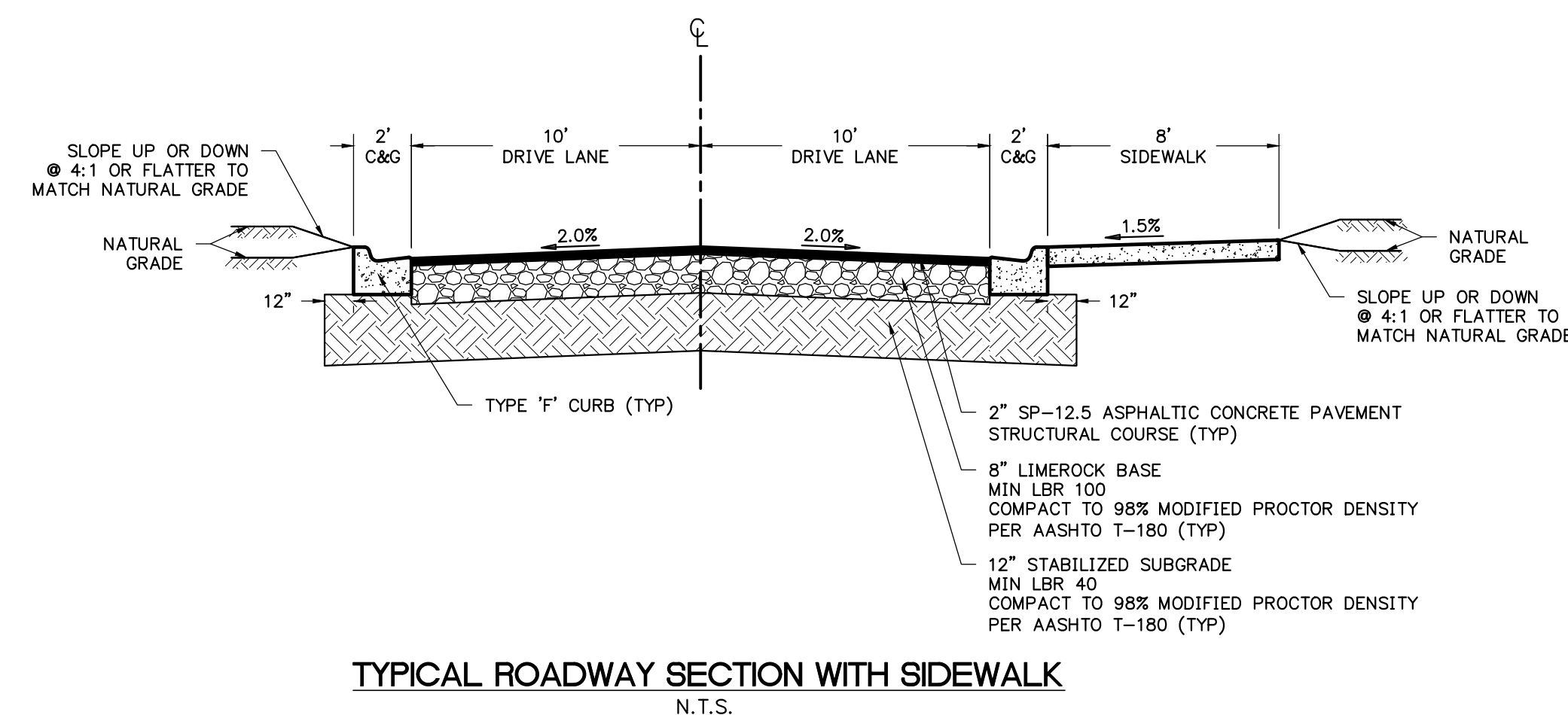
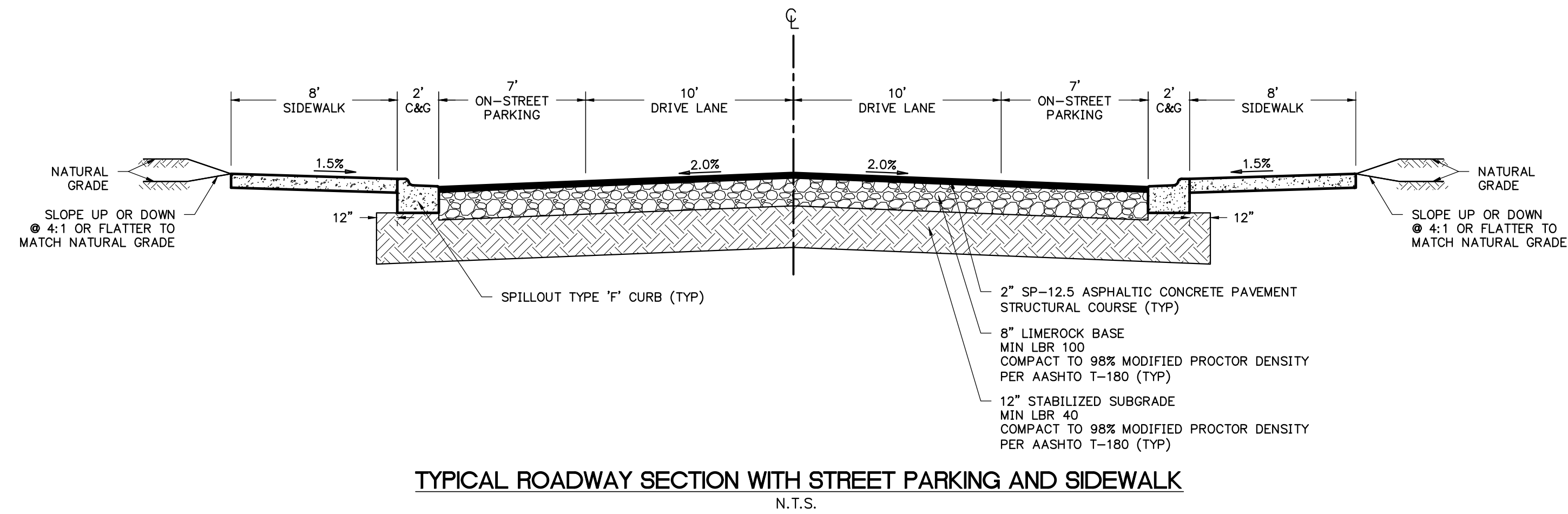
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C4.9**



**GENERAL NOTES:**

1. DESIGN SPEED = 25 MPH
2. PROVIDE SOD ALONG ALL PAVED AREAS AS SHOWN.
3. SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS WITH SLOPES LESS THAN OR EQUAL TO 4:1
4. ALL DISTURBED AREAS WITH SLOPES BETWEEN 4:1 AND 3:1 SHALL BE SOODED.
5. ALL SLOPES STEEPER THAN 3:1 SHALL BE PINNED SOD.



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SHEET TITLE: **TYPICAL ROADWAY SECTIONS**

CLIENT: **FICKLING AND CO. MACON, GA**

PROJECT: **LULLWATER AT FORT CLARKE BLVD**

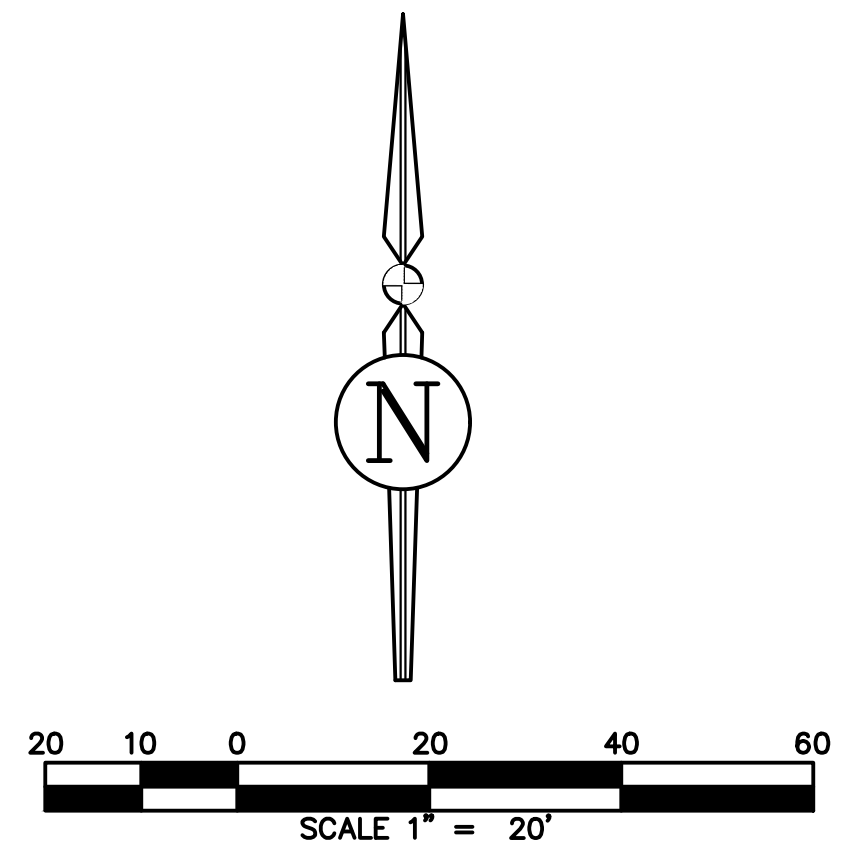
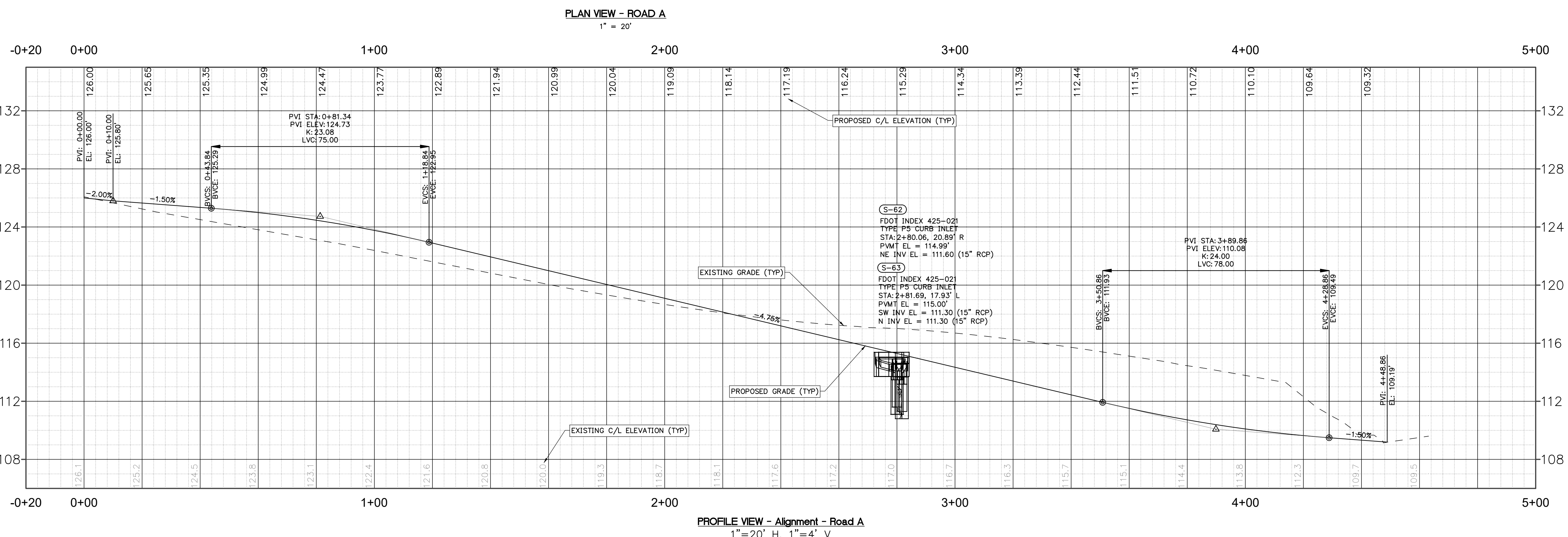
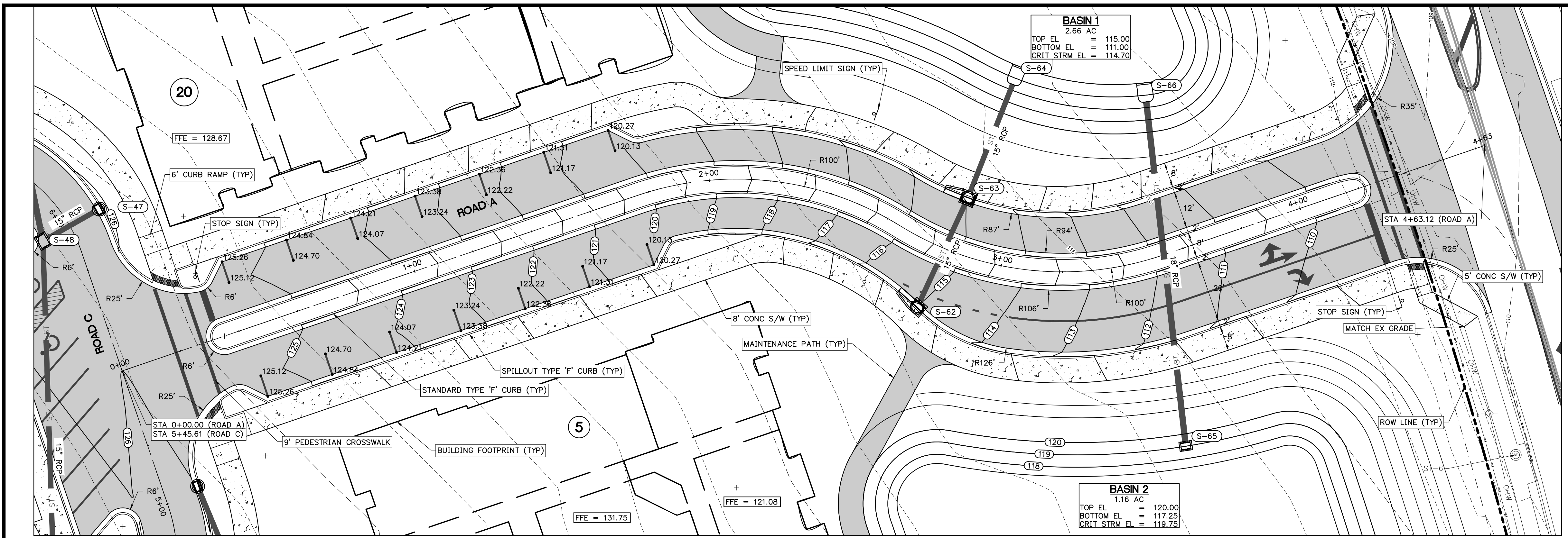
DATE: **DECEMBER 2022**

PROJECT NO.: **403-19-01**

SHEET NO.: **C5.0**

J:\403-19-01 - Fickling Apartments - Fort Clarke Blvd\Production\Drawings\CD\01 - Typical Roadway Sections.dwg, 12/5/2022, 4:47:22 PM, Tim





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NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD:  
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SHEET TITLE:  
**ROADWAY PLAN AND PROFILE - ROAD A**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

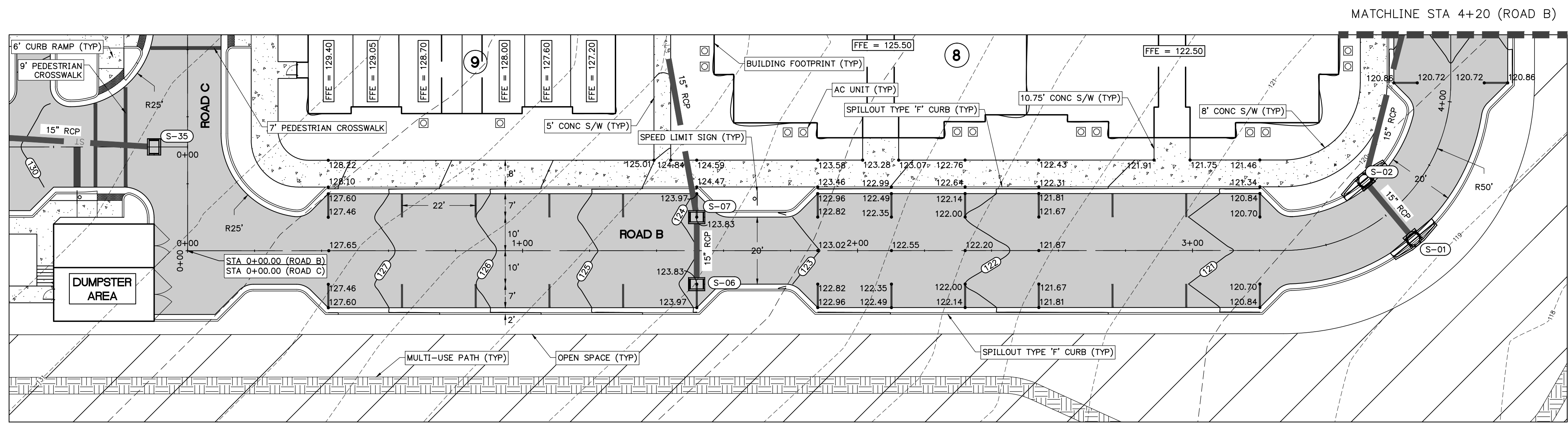
PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

DATE:  
**DECEMBER 2022**

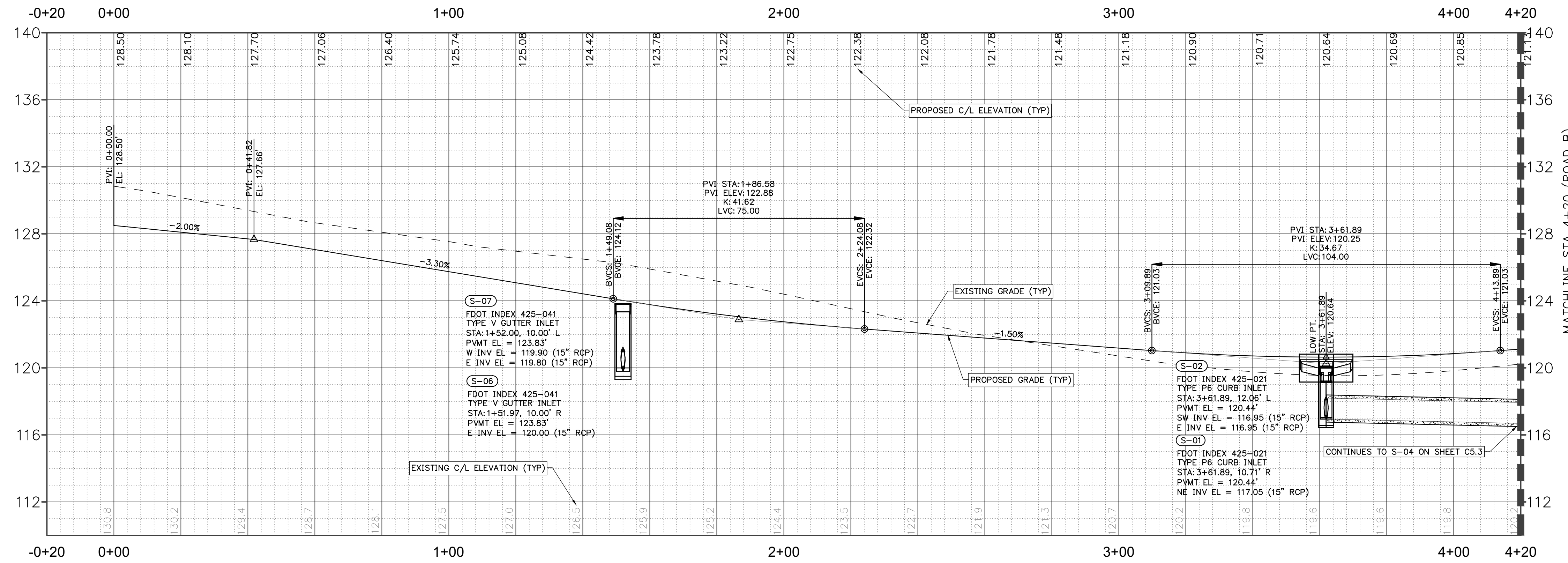
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**403-19-01**

SHEET NO:  
**C5.1**

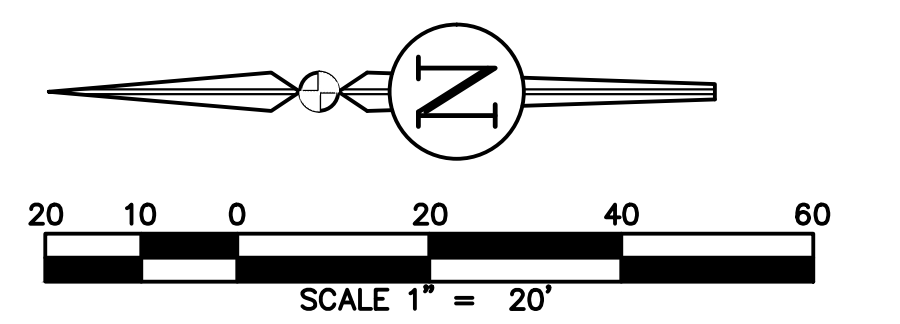




PLAN VIEW - ROAD B  
1" = 20'



PROFILE VIEW - Alignment - Road B  
1" = 20' H, 1" = 4' V



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SHEET TITLE:  
**ROADWAY PLAN AND PROFILE - ROAD B**

CLIENT:  
**FICKLING AND CO.  
MACON, GA**

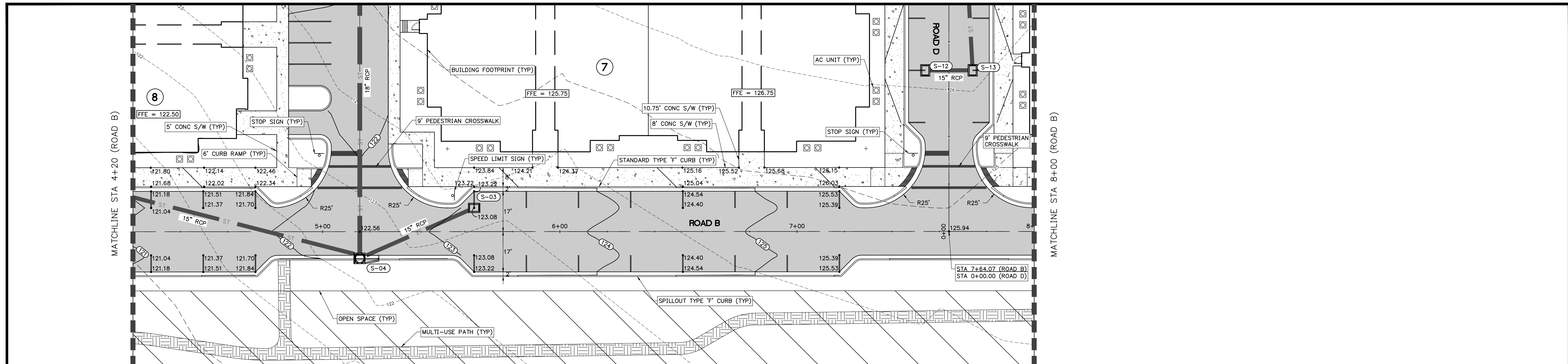
PROJECT:  
**LULLWATER AT FORT  
CLARKE BLVD**

DATE:  
**DECEMBER 2022**

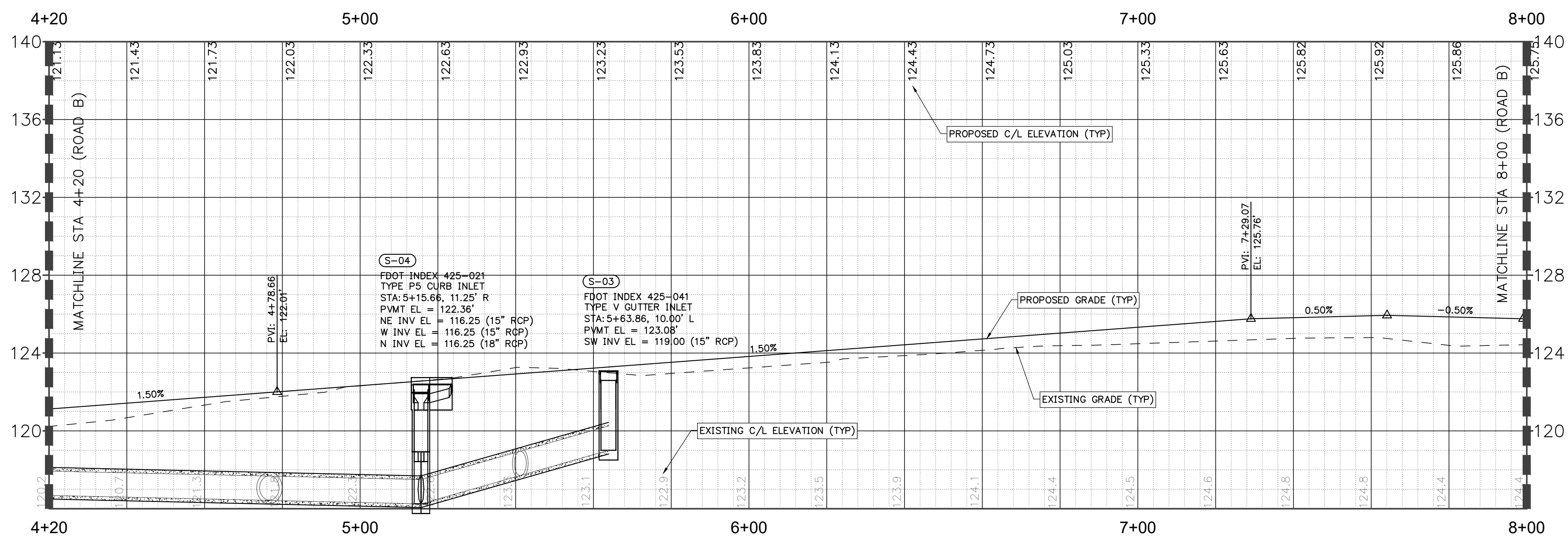
PROJECT NO:  
**403-19-01**

SHEET NO:  
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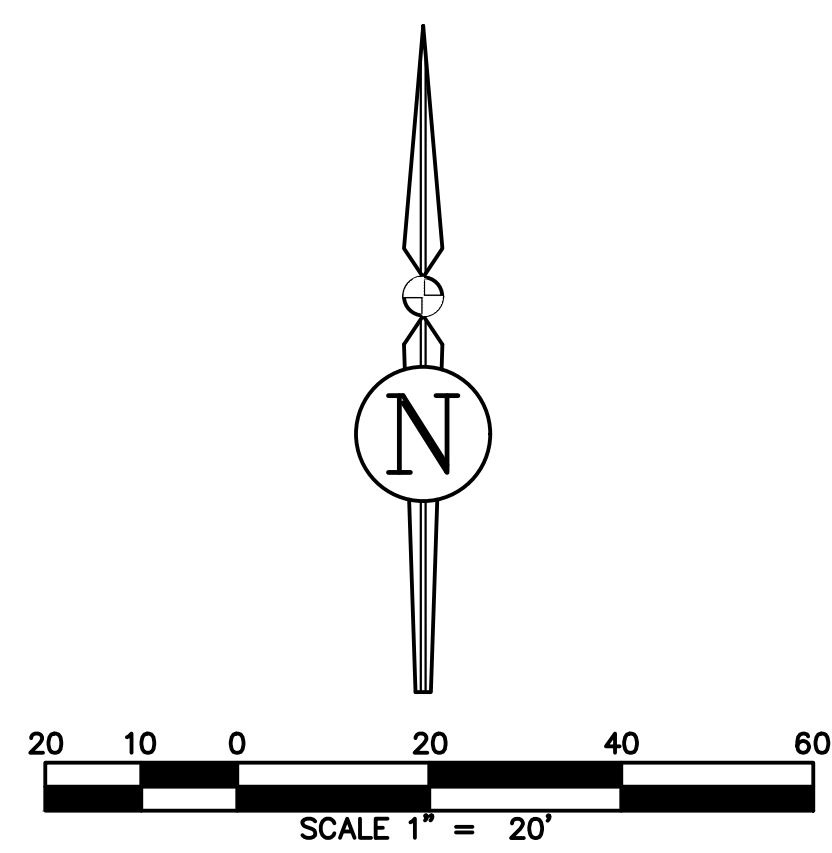




PLAN VIEW - ROAD B  
1" = 20'



PROFILE VIEW - Alignment - Road B  
1" = 20' H, 1" = 4' V



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NO.	DATE	DESCRIPTION		

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SHEET TITLE:  
**ROADWAY PLAN AND PROFILE - ROAD B**

CLIENT:  
**FICKLING AND CO.  
MACON, GA**

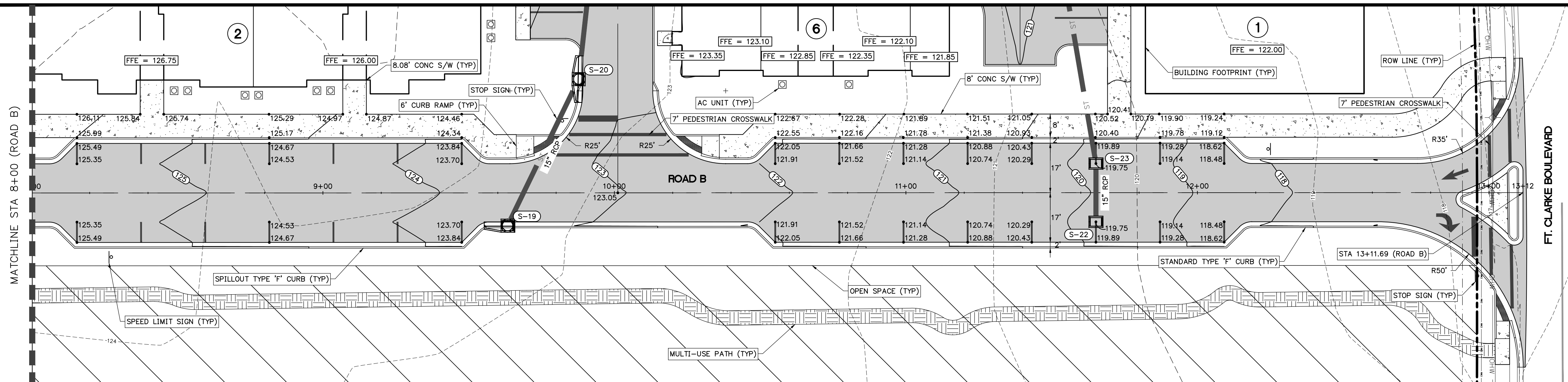
PROJECT:  
**LULLWATER AT FORT  
CLARKE BLVD**

DATE:  
**DECEMBER 2022**

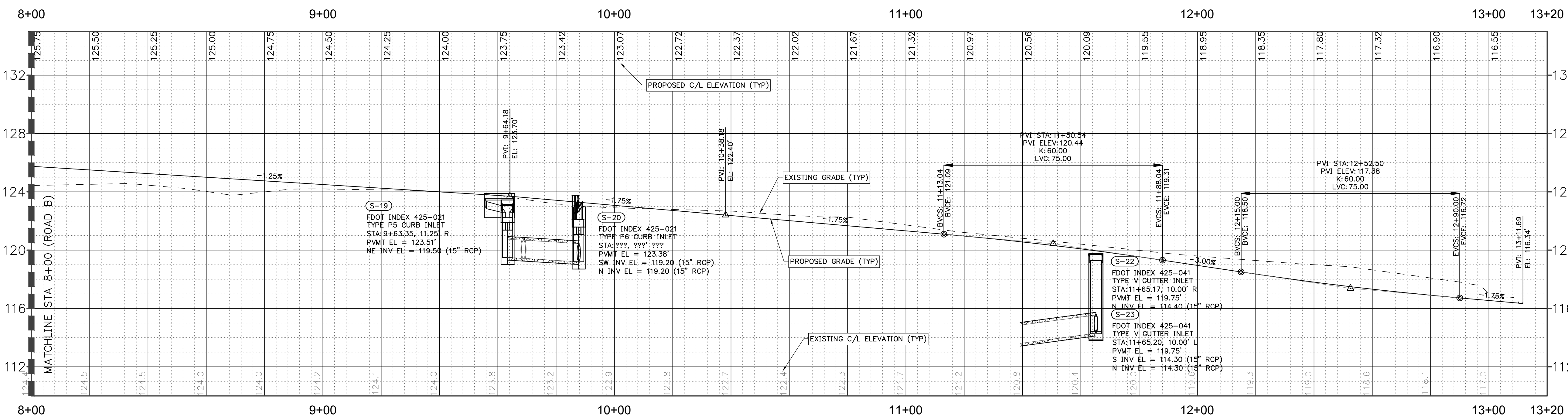
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C5.3**

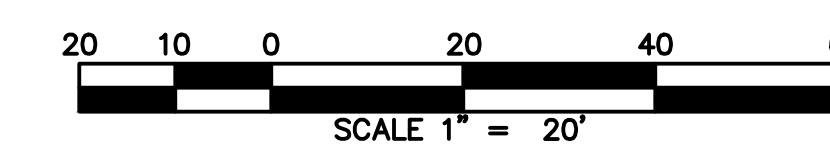




PLAN VIEW - ROAD B  
1" = 20'



PROFILE VIEW - Alignment - Road B  
1"=20' H, 1"=4' V



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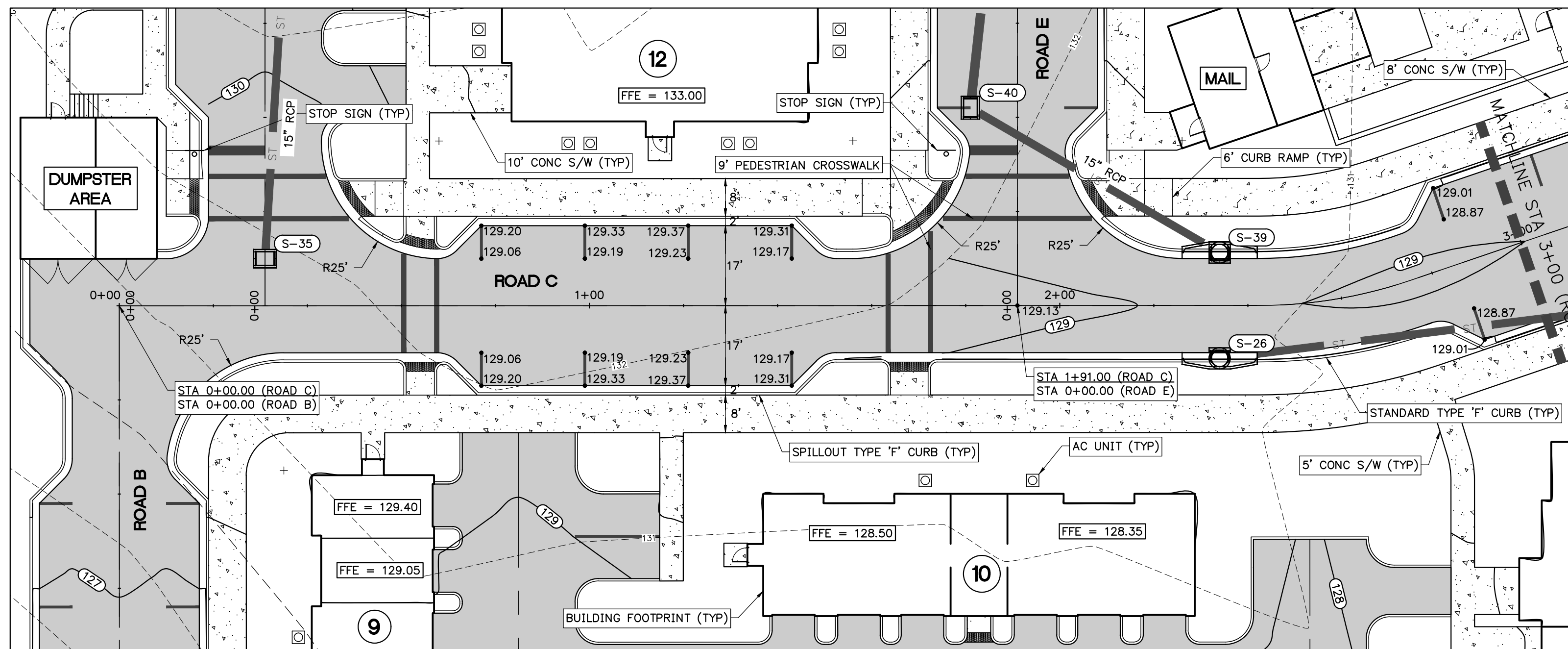
SHEET TITLE: ROADWAY PLAN AND PROFILE - ROAD B

CLIENT: FICKLING AND CO.  
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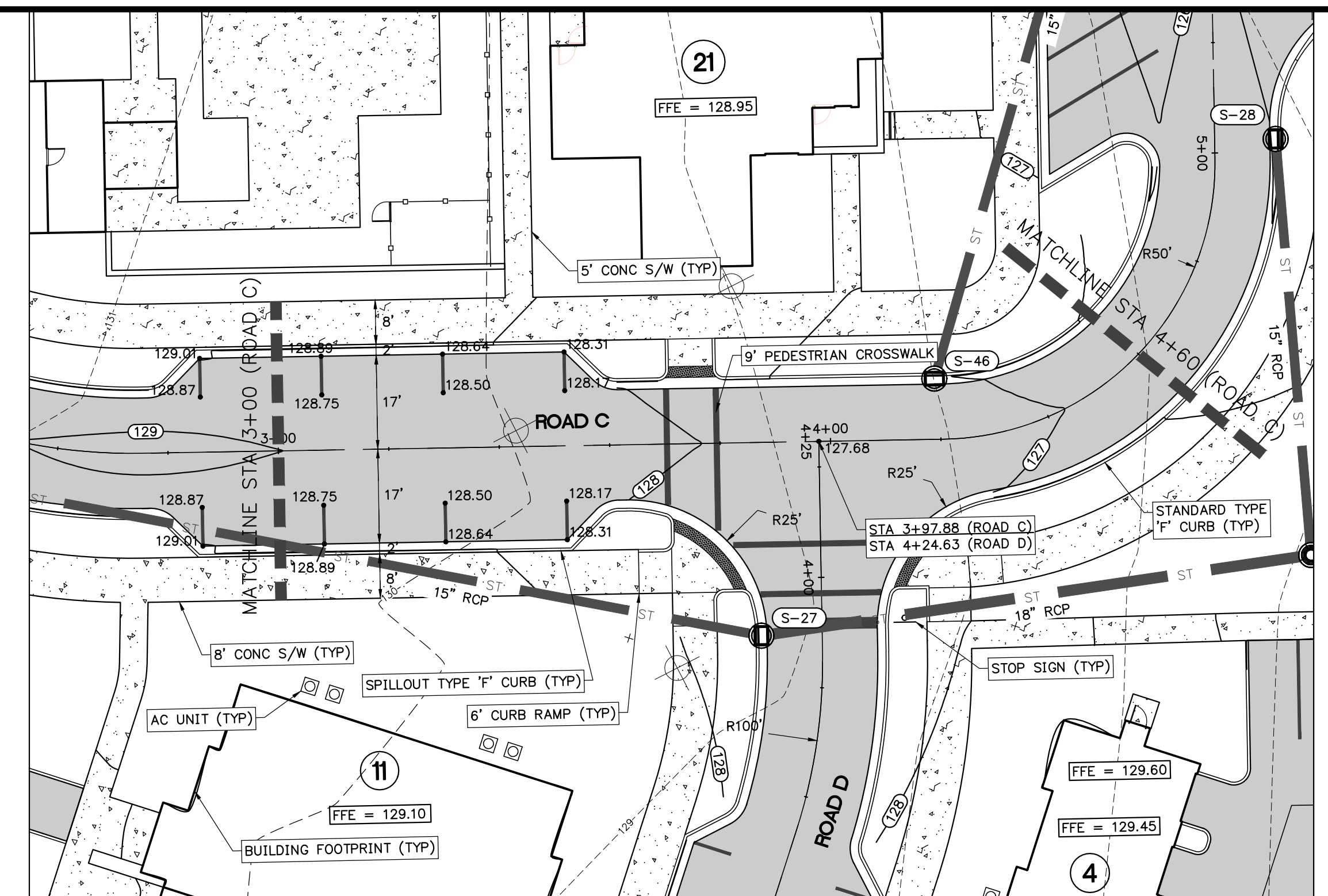
PROJECT: LULLWATER AT FORT CLARKE BLVD

DATE: DECEMBER 2022  
PROJECT NO: 403-19-01  
SHEET NO: C5.4

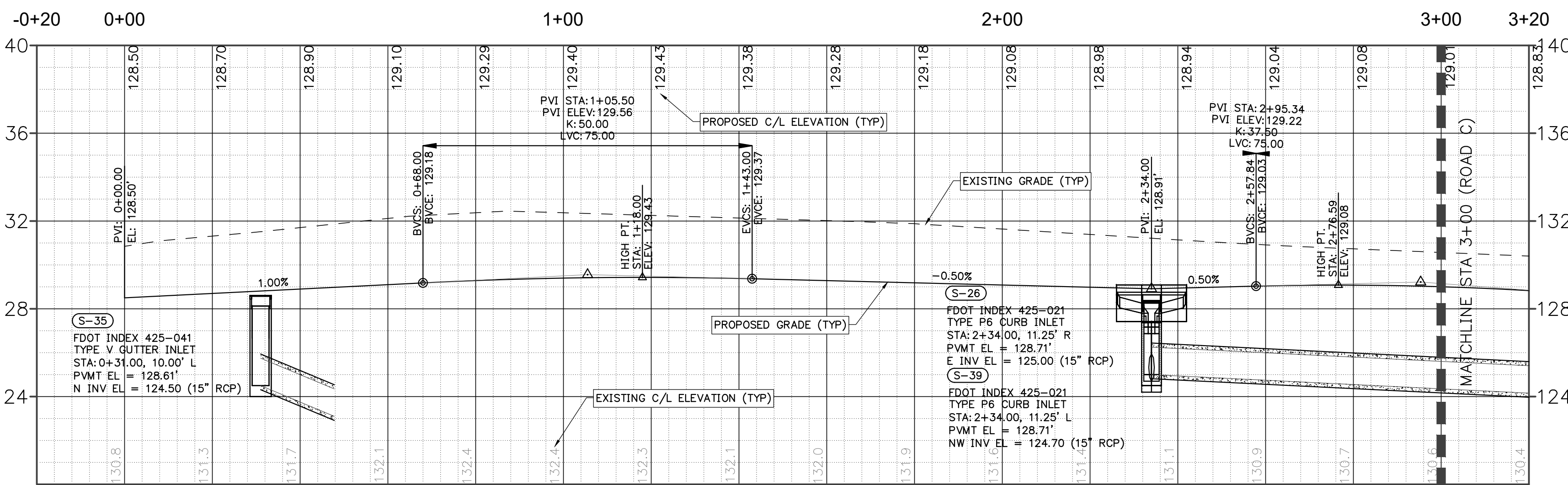




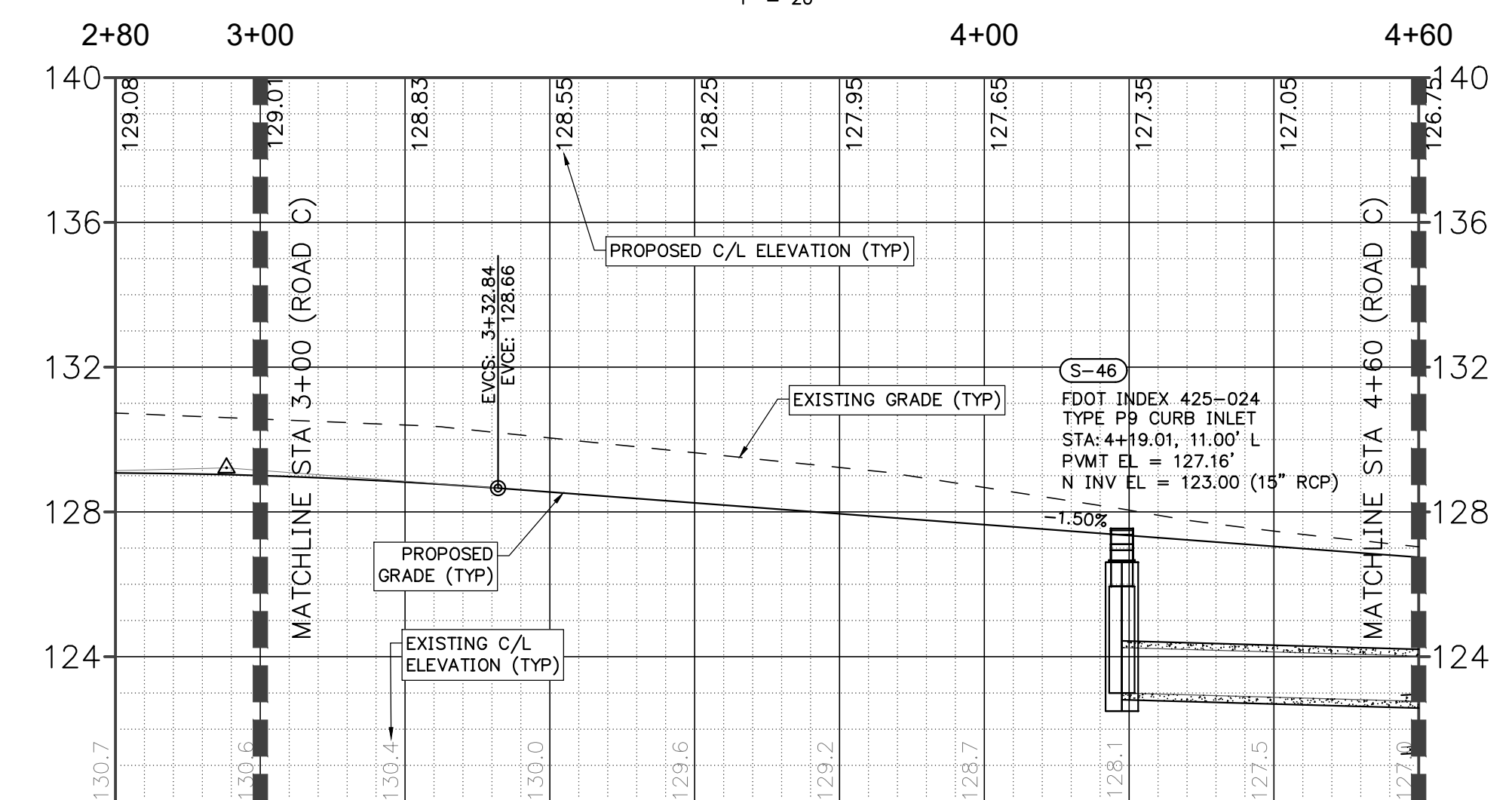
PLAN VIEW - ROAD C  
1" = 20'



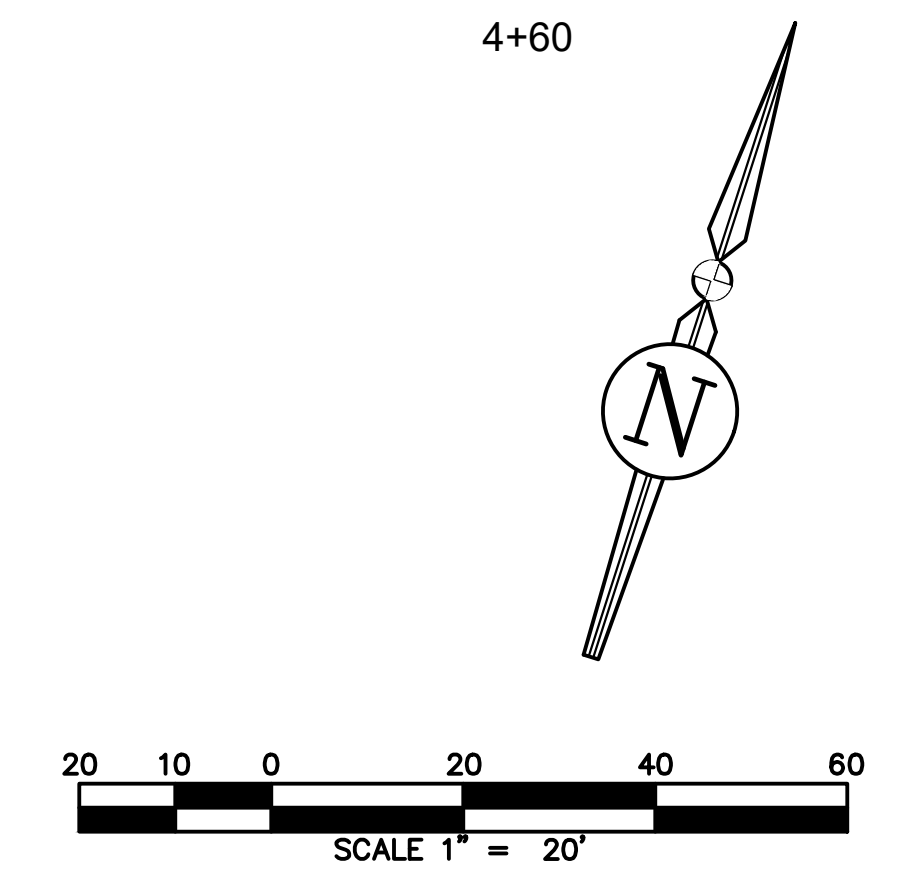
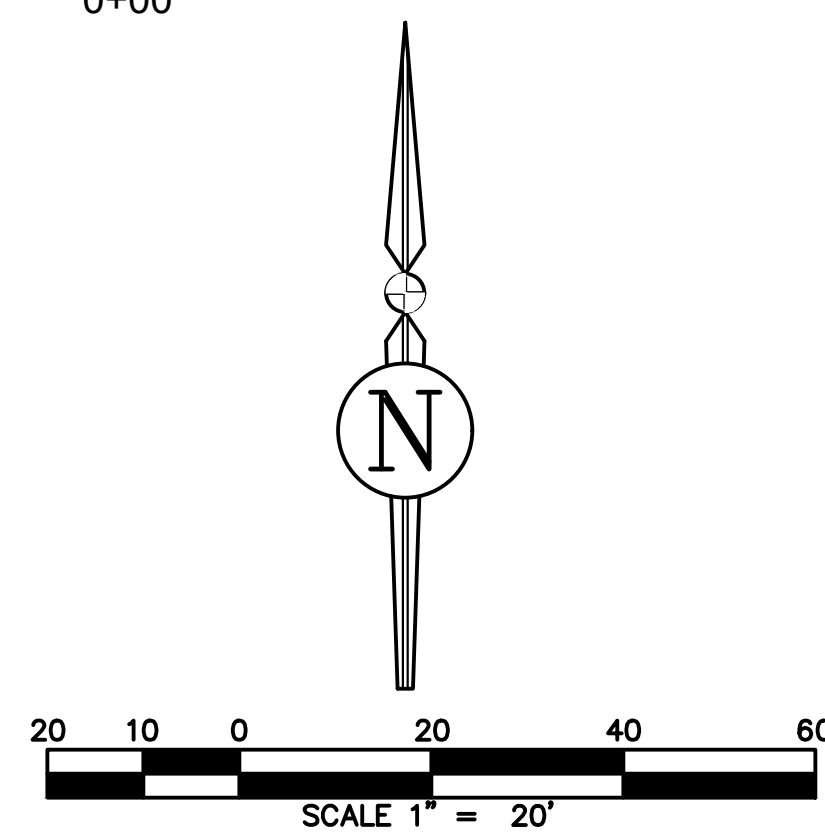
PLAN VIEW - ROAD C  
1" = 20'



PROFILE VIEW - Alignment - Road C  
1"=20' H, 1"=4' V



PROFILE VIEW - Alignment - Road C  
1"=20' H, 1"=4' V



REVISIONS			
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ENGINEER OF RECORD:  
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SHEET TITLE:  
CLIENT:

**ROADWAY PLAN AND PROFILE - ROAD C**

FICKLING AND CO.  
MACON, GA

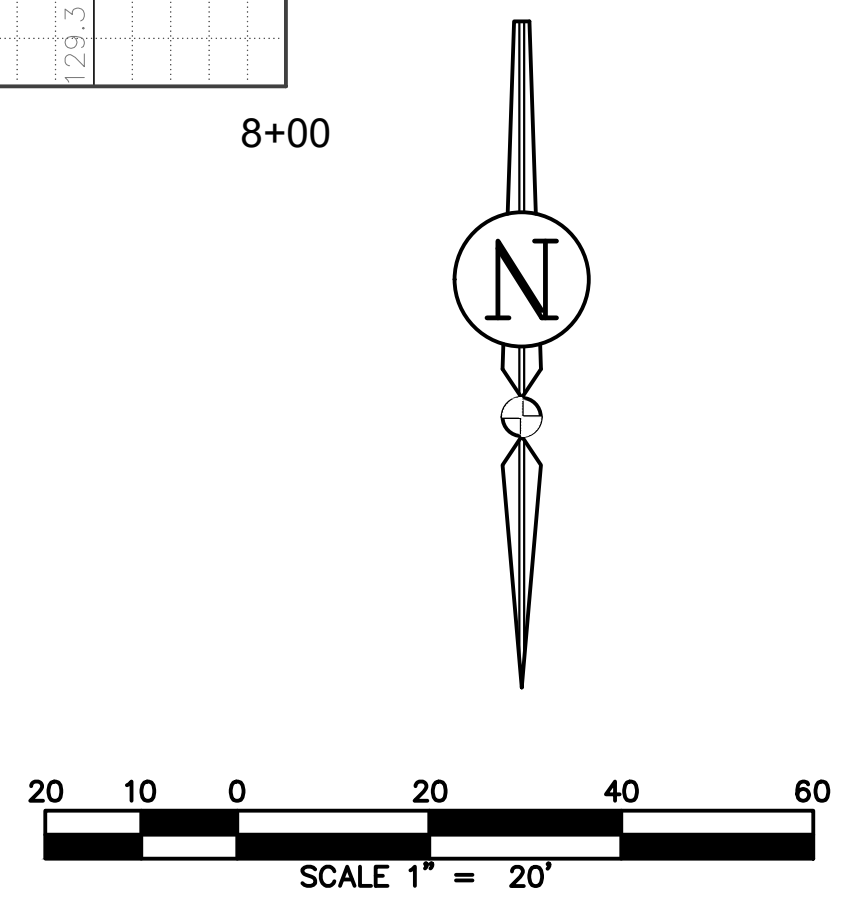
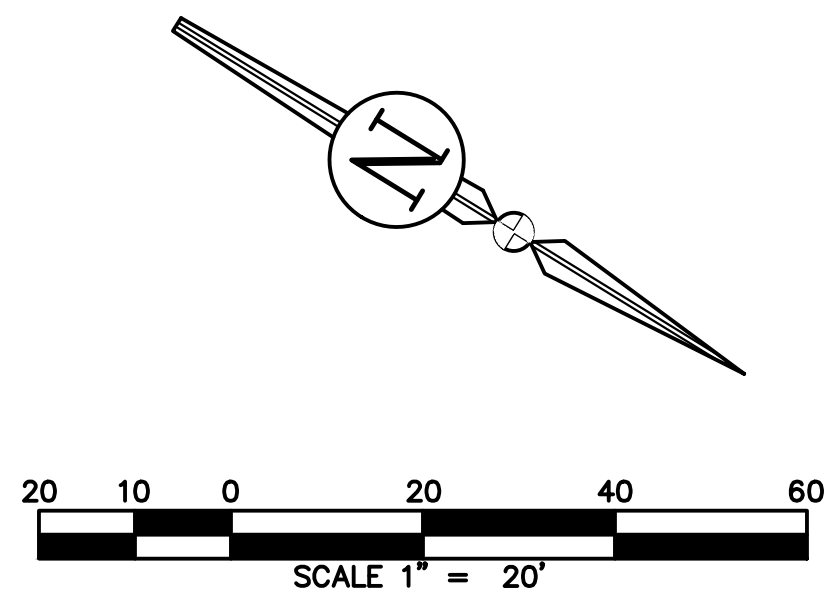
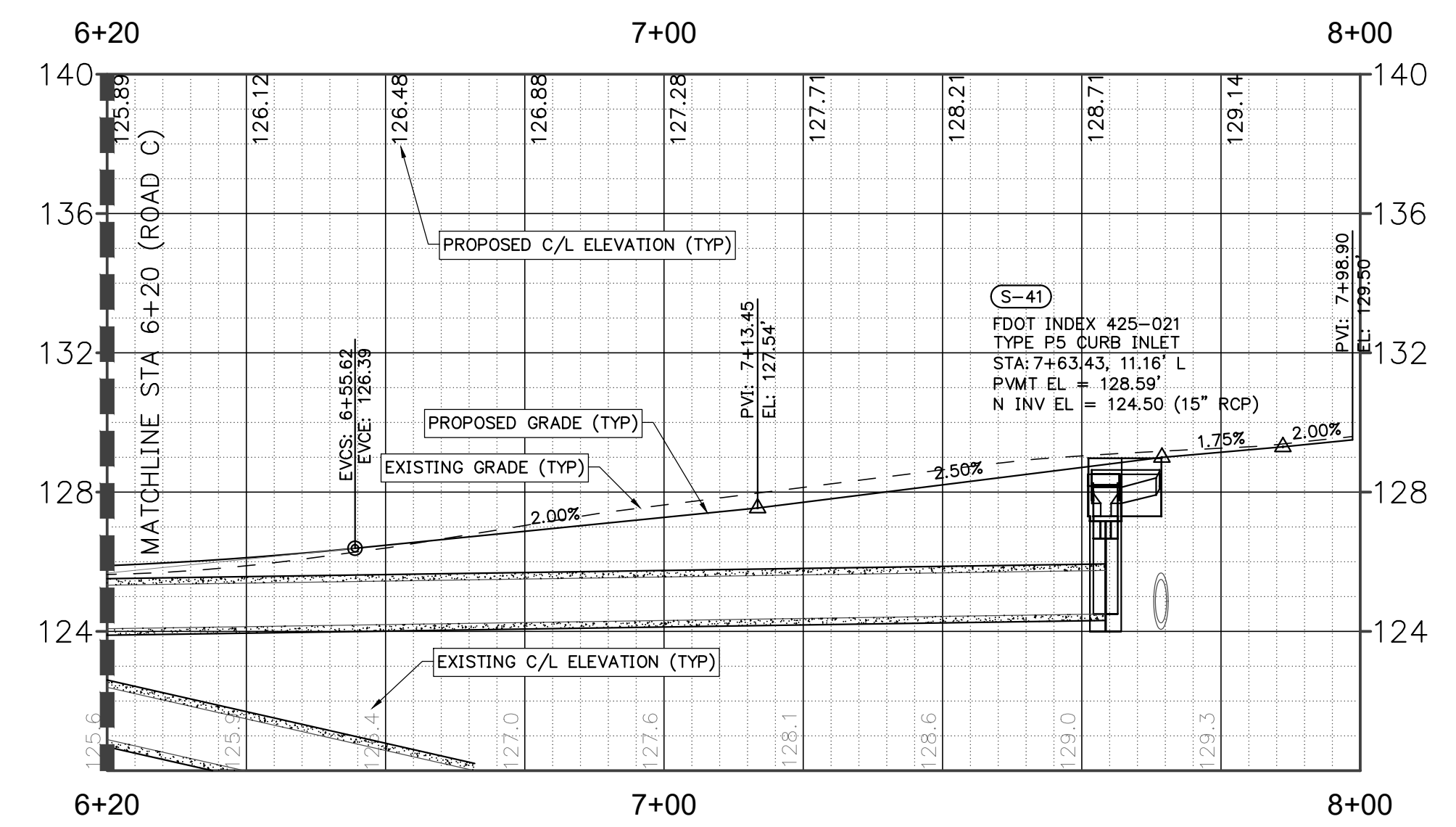
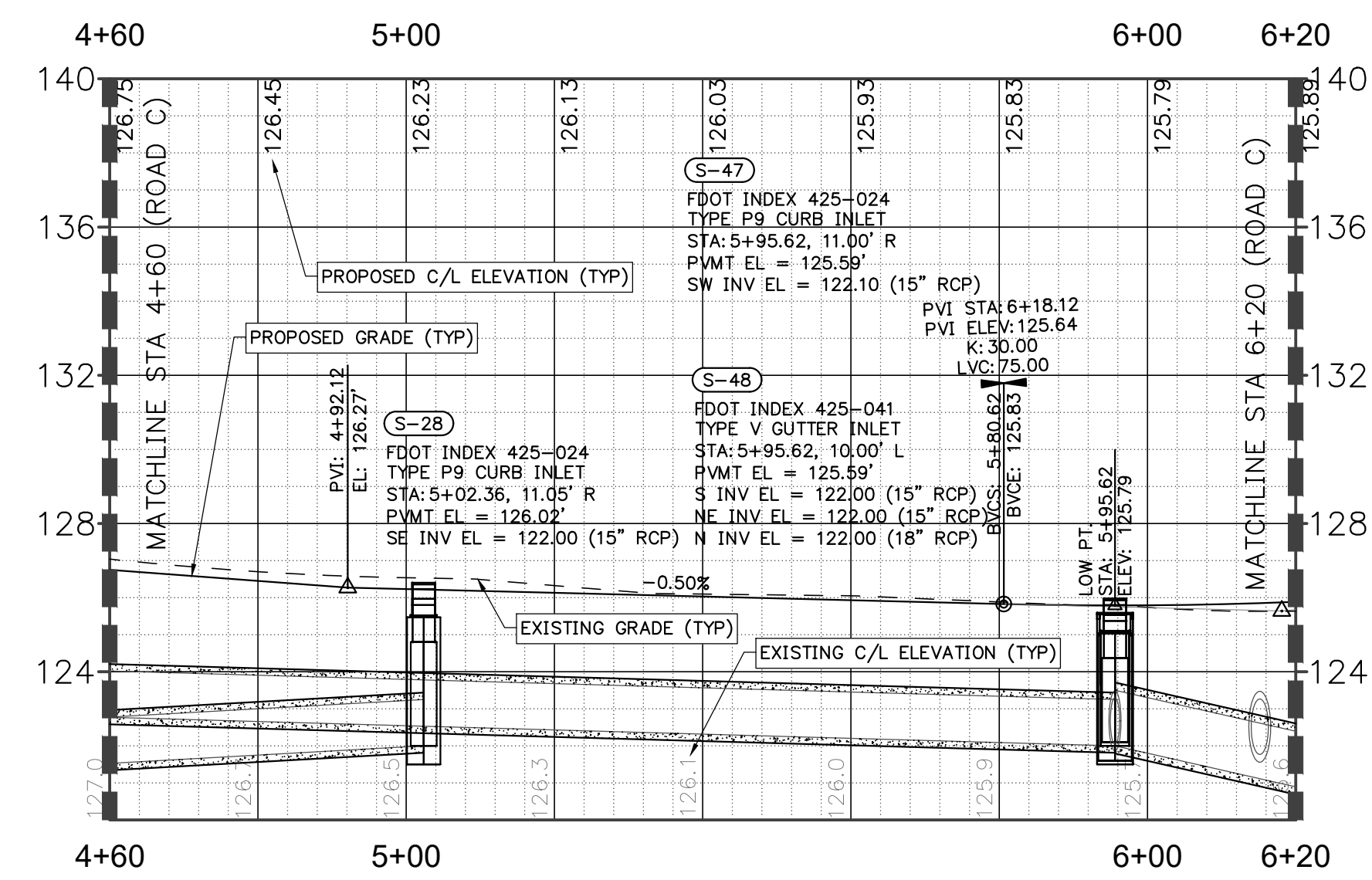
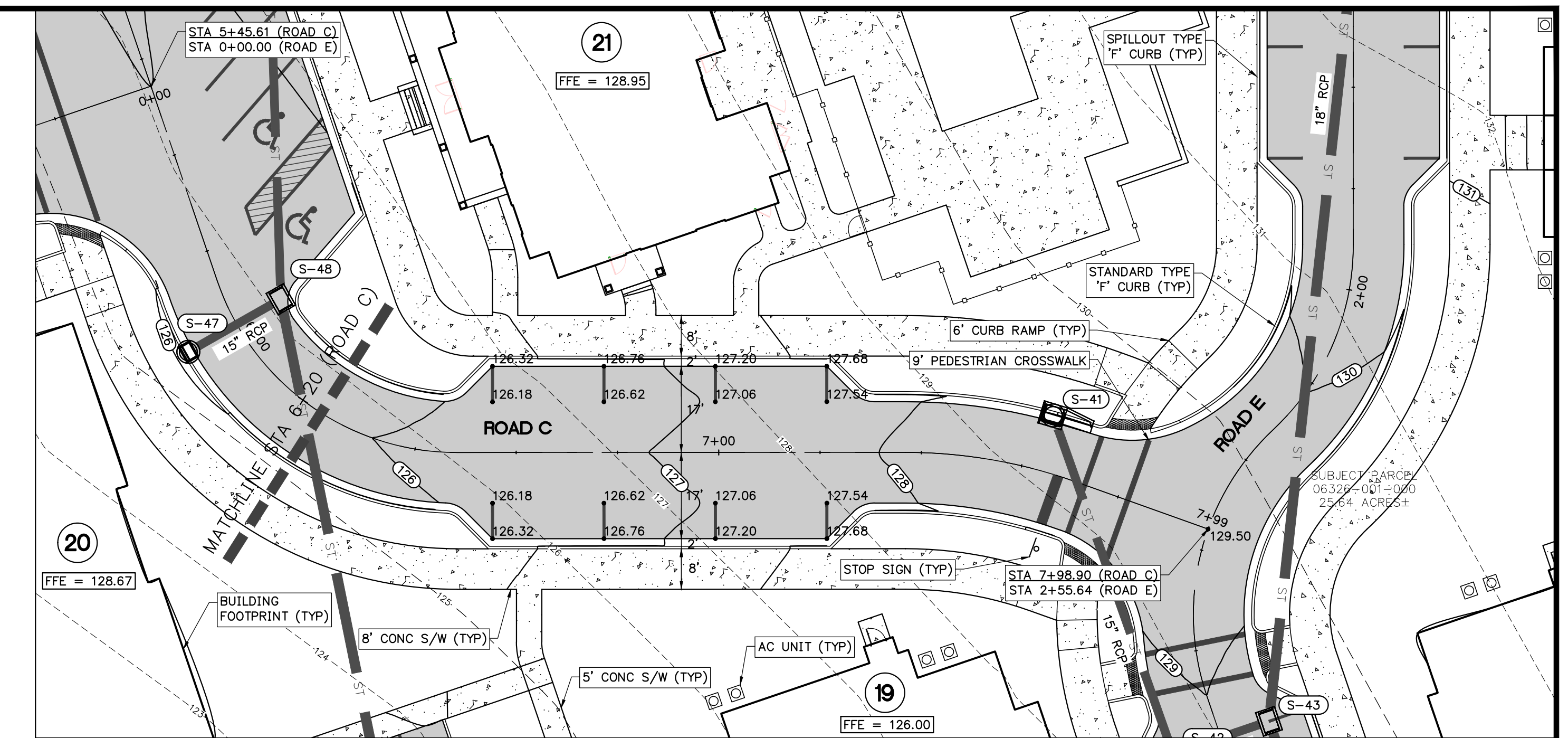
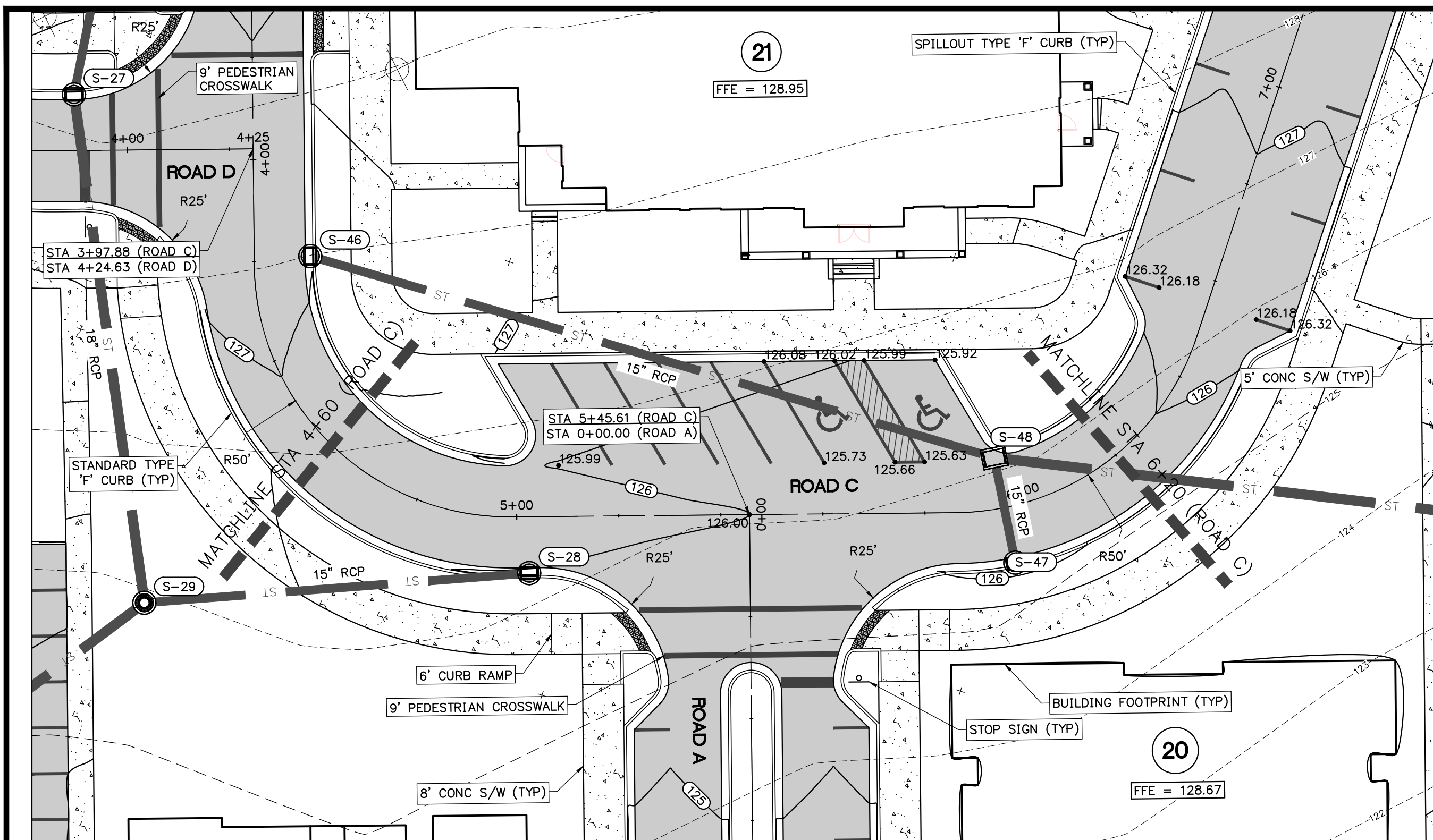
PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

SHEET NO:  
**C5.5**





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SHEET TITLE:  
**ROADWAY PLAN AND PROFILE - ROAD C**

CLIENT:  
**FICKLING AND CO.  
MACON, GA**

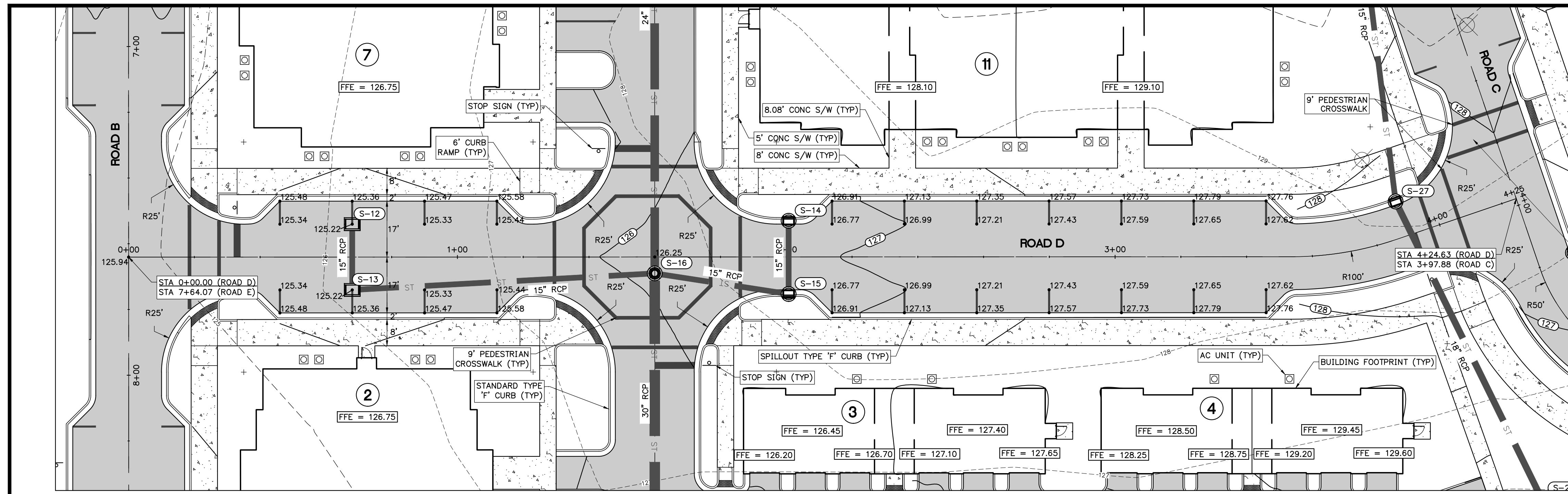
PROJECT:  
**LULLWATER AT FORT  
CLARKE BLVD**

DATE:  
**DECEMBER 2022**

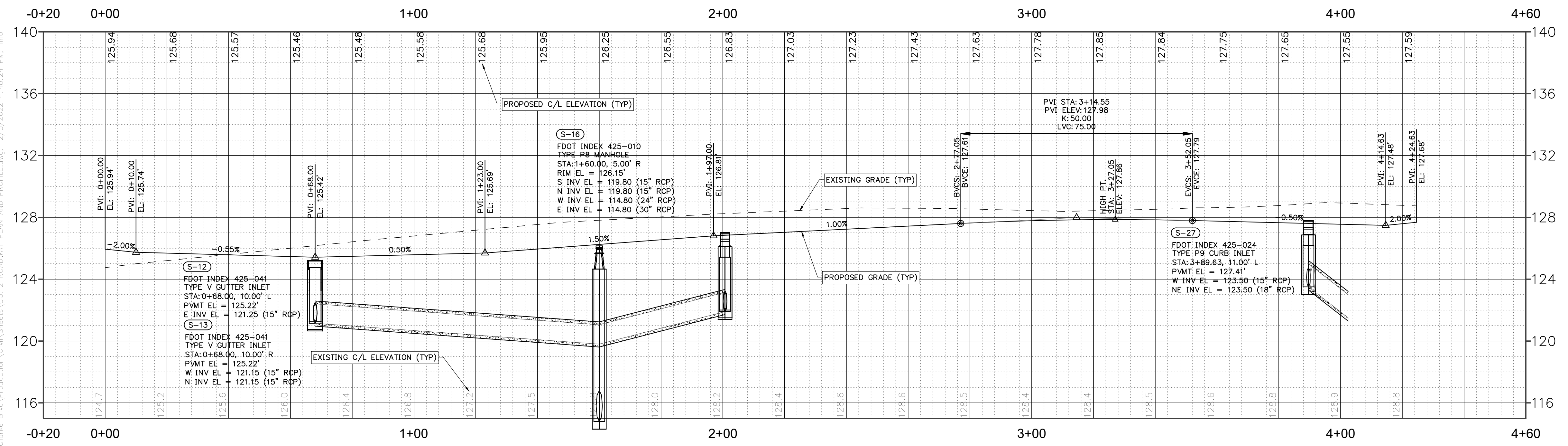
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**403-19-01**

SHEET NO:  
**C5.6**

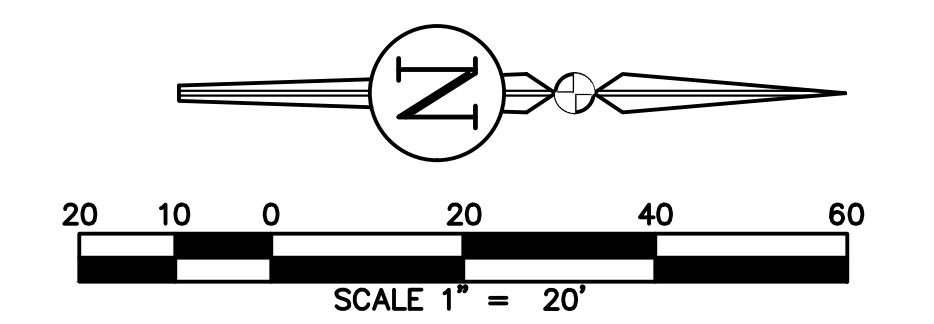




PLAN VIEW - ROAD D  
1" = 20'



PROFILE VIEW - Alignment - Road D  
1" = 20' H, 1" = 4' V



REVISIONS			
NO.	DATE	DESCRIPTION	DRWN/ APPR

ENGINEER OF RECORD:  
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Toll Free: (844) Go-JBPro | E-mail: contact@jbpro.com

SHEET TITLE:  
**ROADWAY PLAN AND PROFILE - ROAD D**

CLIENT:  
**FICKLING AND CO.  
MACON, GA**

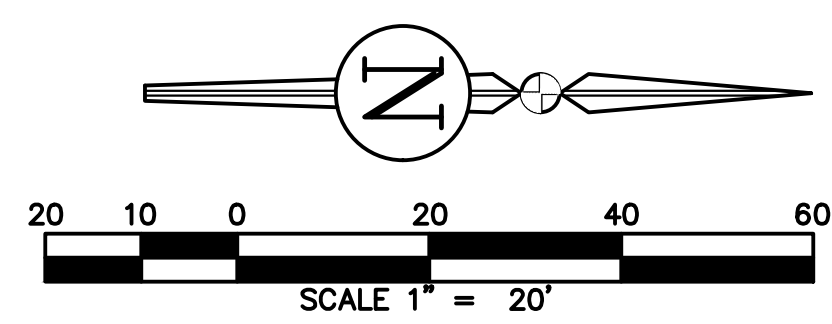
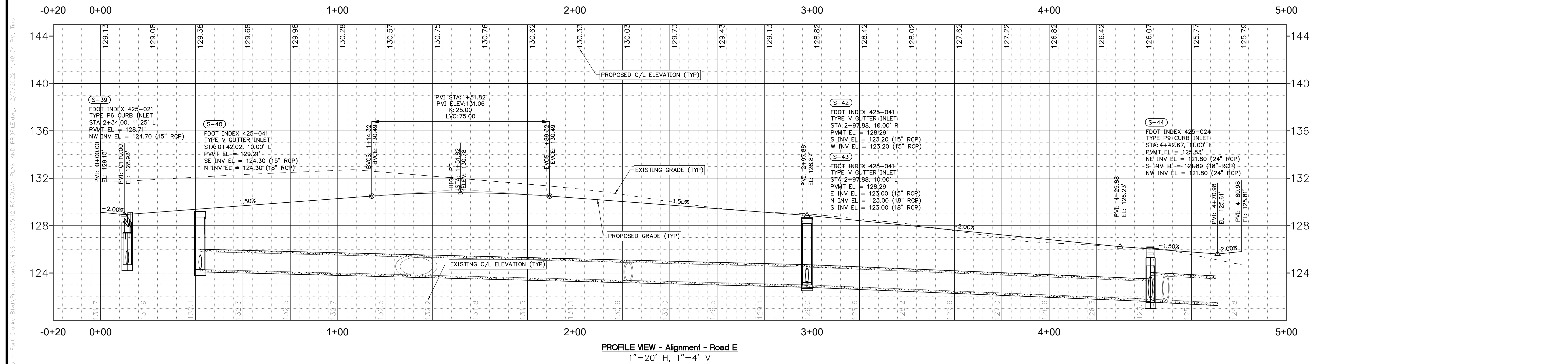
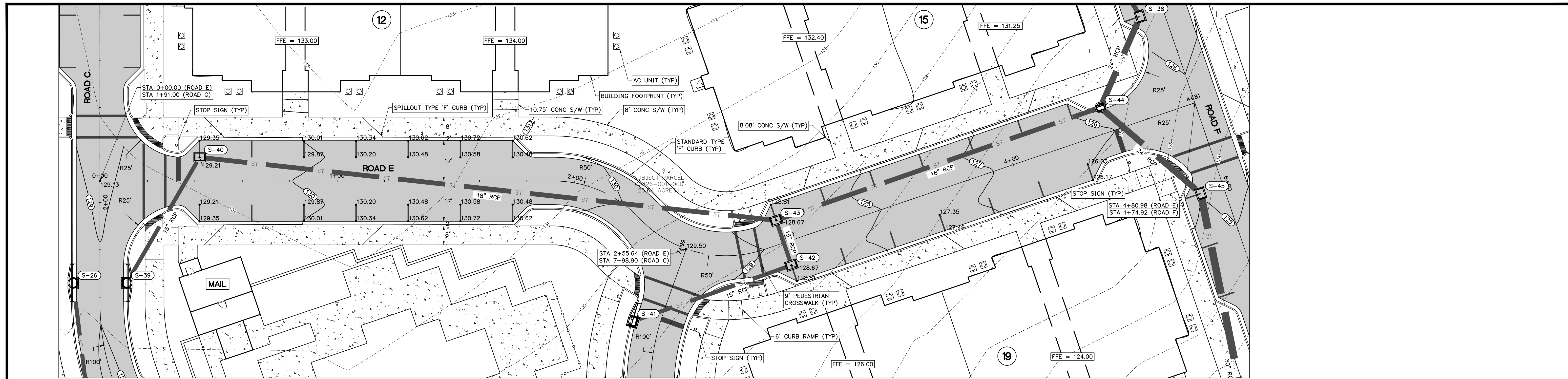
PROJECT:  
**LULLWATER AT FORT  
CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

SHEET NO:  
**C5.7**





REVISIONS				
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ENGINEER OF RECORD:  
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Toll Free: (844) Go-JBPro | E-mail: contact@jbpro.com

SHEET TITLE:  
**ROADWAY PLAN AND PROFILE - ROAD E**

CLIENT:  
**FICKLING AND CO.  
MACON, GA**

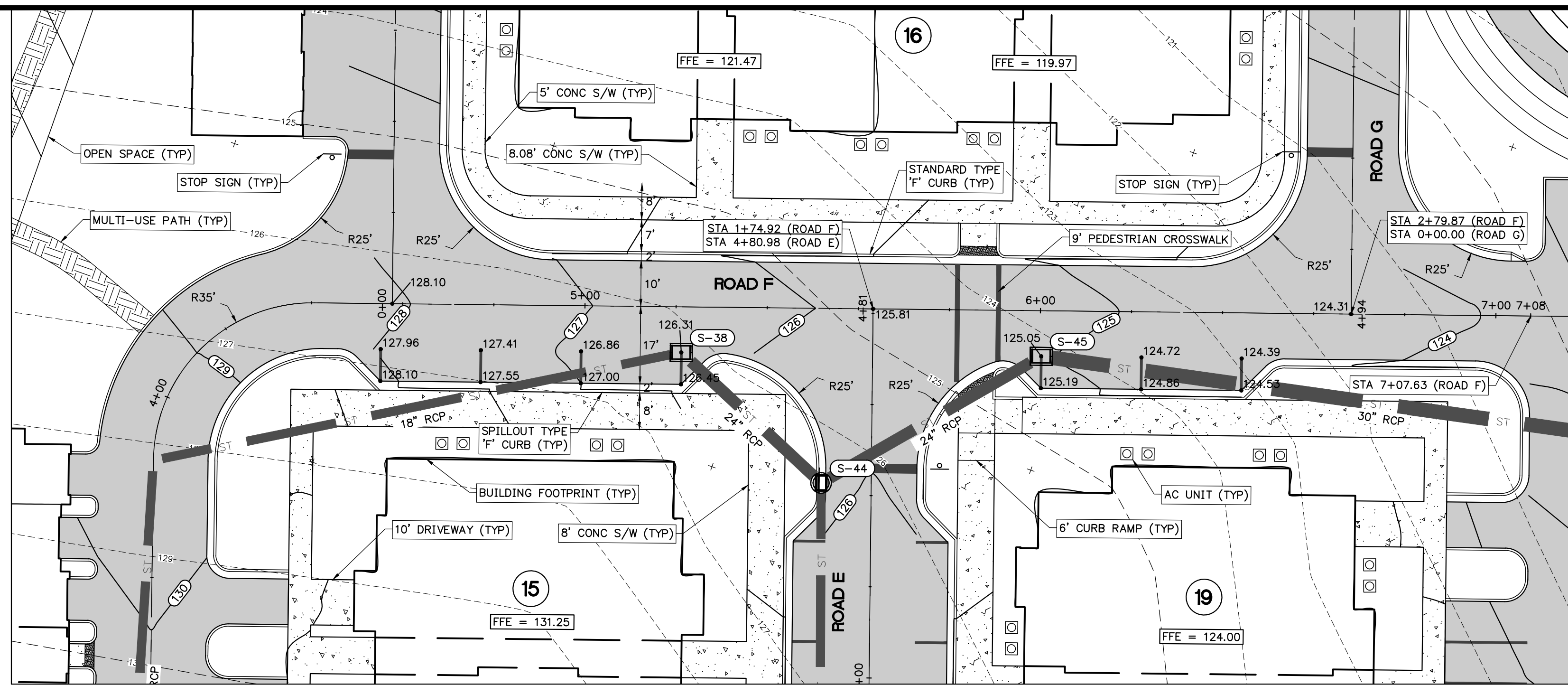
PROJECT:  
**LULLWATER AT FORT  
CLARKE BLVD**

DATE:  
**DECEMBER 2022**

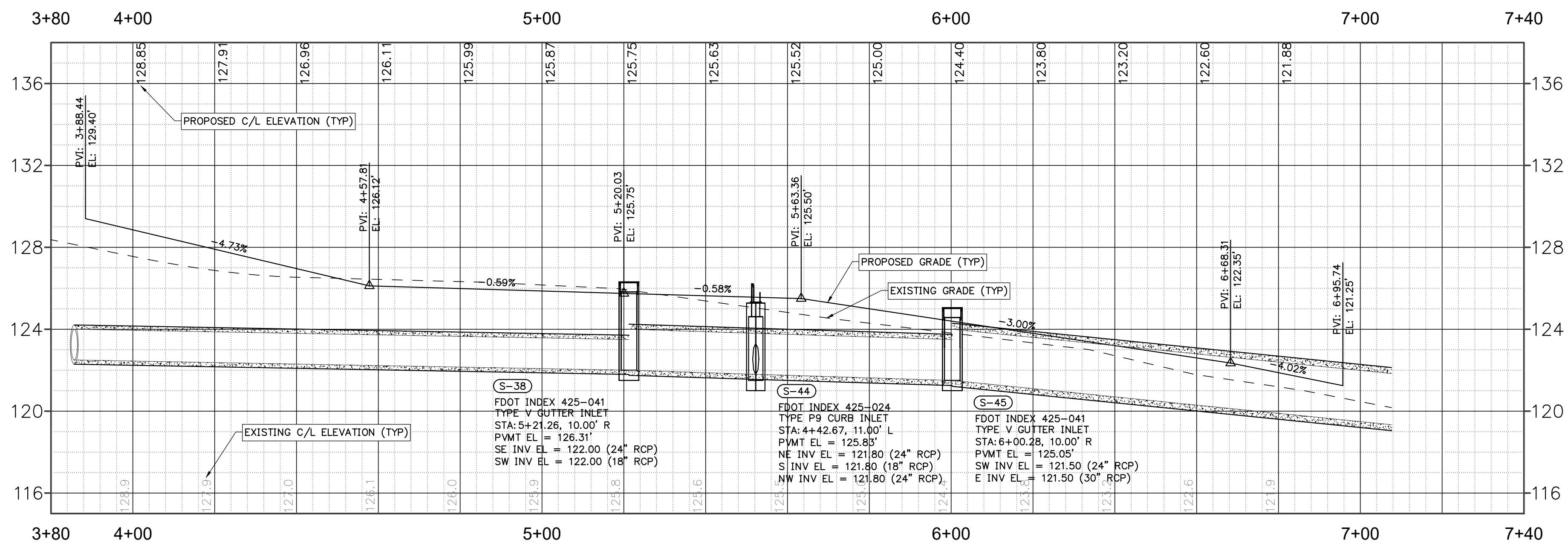
PROJECT NO:  
**403-19-01**

SHEET NO:  
**C5.8**

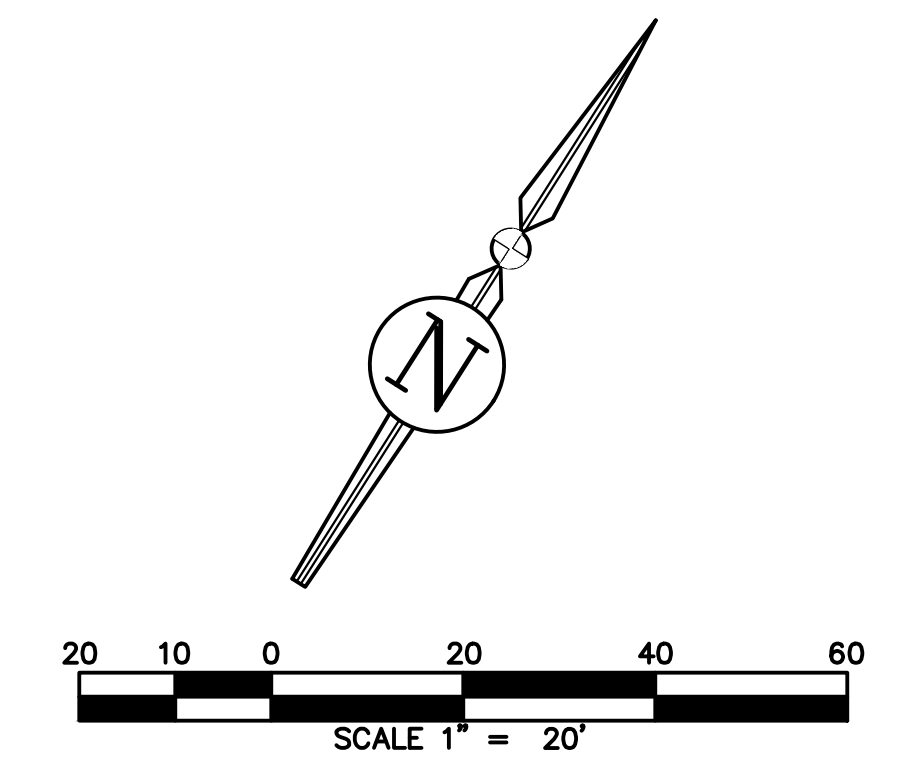




PLAN VIEW - ROAD F  
1" = 20'



PROFILE VIEW - Alignment - Road F  
1" = 20' H, 1" = 4' V



REVISIONS			
NO.	DATE	DESCRIPTION	DRWN/ APPR

ENGINEER OF RECORD:  
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SHEET TITLE:  
**ROADWAY PLAN AND PROFILE - ROAD F**

CLIENT:  
**FICKLING AND CO.  
MACON, GA**

PROJECT:  
**LULLWATER AT FORT  
CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

SHEET NO:  
**C5.9**



**GENERAL UTILITY NOTES**

1. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS SHALL CONFORM TO GRU'S MOST RECENT UTILITY STANDARDS, AND APPROVED MATERIALS MANUAL.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING WATER MAIN AND POINT OF WATER MAIN CONNECTION.
3. PRIOR TO CONNECTION TO EXISTING UTILITIES, CONTRACTOR SHALL CONTACT GRU AND COORDINATE CONNECTION WITH WATER/WASTEWATER INSPECTOR A MINIMUM OF 7 DAYS BEFORE PLANNED CONNECTION.
4. THE FLORIDA BUILDING/PLUMBING CODE GOVERNS THE CONNECTION BETWEEN THE WATER METERS AND THE BUILDINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND PLUMBER TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE.
5. PVC WATER MAIN AND FITTINGS SHALL BE SCH. 40 PER ASTM D1785.
6. MECHANICAL RESTRAINTS SHALL BE INSTALLED BEFORE AND AFTER ALL FITTINGS.
7. ALL UTILITIES WILL BE A MINIMUM DEPTH OF 36" BELOW THE ROAD BED AND 30" ALONG THE COUNTY RIGHT-OF-WAY, AND A MINIMUM DEPTH OF 24" AS TO ALL RESIDENTIAL INSTALLATIONS.
8. WATER METERS SHALL BE OUTSIDE OF LANDSCAPE AND PAVED AREAS, A MINIMUM OF 5' FROM BUILDINGS, BEHIND SIDEWALKS, AND BE A MINIMUM OF 2 FEET FROM THE EDGE OF PAVEMENT.
9. FOR WATER MAINS, ALL MECHANICAL JOINT FITTINGS SHALL HAVE RESTRAINING JOINT GLANDS. PIPE SHALL BE RESTRAINED FOR SUFFICIENT LENGTH TO PROVIDE REACTION FOR BENDS & DEAD ENDS.
10. ANCHORING TEES, COUPLINGS, AND BENDS SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.
11. ALL SECONDARY ELECTRIC PEDESTALS MUST MAINTAIN 10FT OF SEPARATION BETWEEN WATER METERS.

**WASTEWATER STRUCTURE SCHEDULE**

EX WWMH-01 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 116.47 N INV EL = 115.03 (8" PVC)	WWMH-09 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 124.98 E INV EL = 118.39 (8" PVC) N INV EL = 118.49 (8" PVC) S INV EL = 118.22 (6" PVC)	WWMH-17 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 117.19 E INV EL = 115.75 (8" PVC) S INV EL = 115.85 (6" PVC)
WWMH-01 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 120.82 SE INV EL = 115.39 (8" PVC) W INV EL = 115.49 (8" PVC) NE INV EL = 115.49 (6" PVC)	WWMH-10 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 127.82 N INV EL = 119.08 (8" PVC) W INV EL = 119.18 (8" PVC)	WWMH-18 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 124.31 N INV EL = 109.55 (8" PVC) E INV EL = 109.65 (8" PVC) S INV EL = 116.83 (6" PVC)
WWMH-02 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 123.50 S INV EL = 116.64 (8" PVC) W INV EL = 116.74 (8" PVC) N INV EL = 116.74 (8" PVC)	WWMH-11 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 127.91 E INV EL = 119.72 (8" PVC) NW INV EL = 119.82 (8" PVC) SW INV EL = 119.58 (6" PVC) W INV EL = 247.39 (6" PVC)	WWMH-19 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 122.68 W INV EL = 110.58 (8" PVC) E INV EL = 110.58 (6" PVC)
WWMH-03 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 123.50 S INV EL = 116.64 (8" PVC) W INV EL = 116.74 (8" PVC) N INV EL = 116.74 (8" PVC)	WWMH-12 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 130.53 SE INV EL = 120.48 (8" PVC) N INV EL = 120.58 (8" PVC)	
WWMH-05 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 125.24 E INV EL = 117.36 (8" PVC) N INV EL = 117.46 (8" PVC) W INV EL = 117.46 (8" PVC) S INV EL = 117.23 (6" PVC)	WWMH-13 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 128.40 S INV EL = 122.04 (8" PVC) NW INV EL = 122.14 (6" PVC)	
WWMH-06 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 129.53 S INV EL = 123.14 (8" PVC) NW INV EL = 123.24 (8" PVC)	WWMH-14 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 90.32 W INV EL = 88.88 (8" PVC)	
WWMH-08 FDOT INDEX 425-010 TYPE J8 MANHOLE (DROP CONNECTION) RIM EL = 106.68 SE INV EL = 123.61 (8" PVC) W INV EL = 123.71 (6" PVC)	WWMH-15 FDOT INDEX 425-010 TYPE J8 MANHOLE RIM EL = 106.68 E INV EL = 105.24 (8" PVC) W INV EL = 110.13 (8" PVC) S INV EL = 105.34 (8" PVC)	

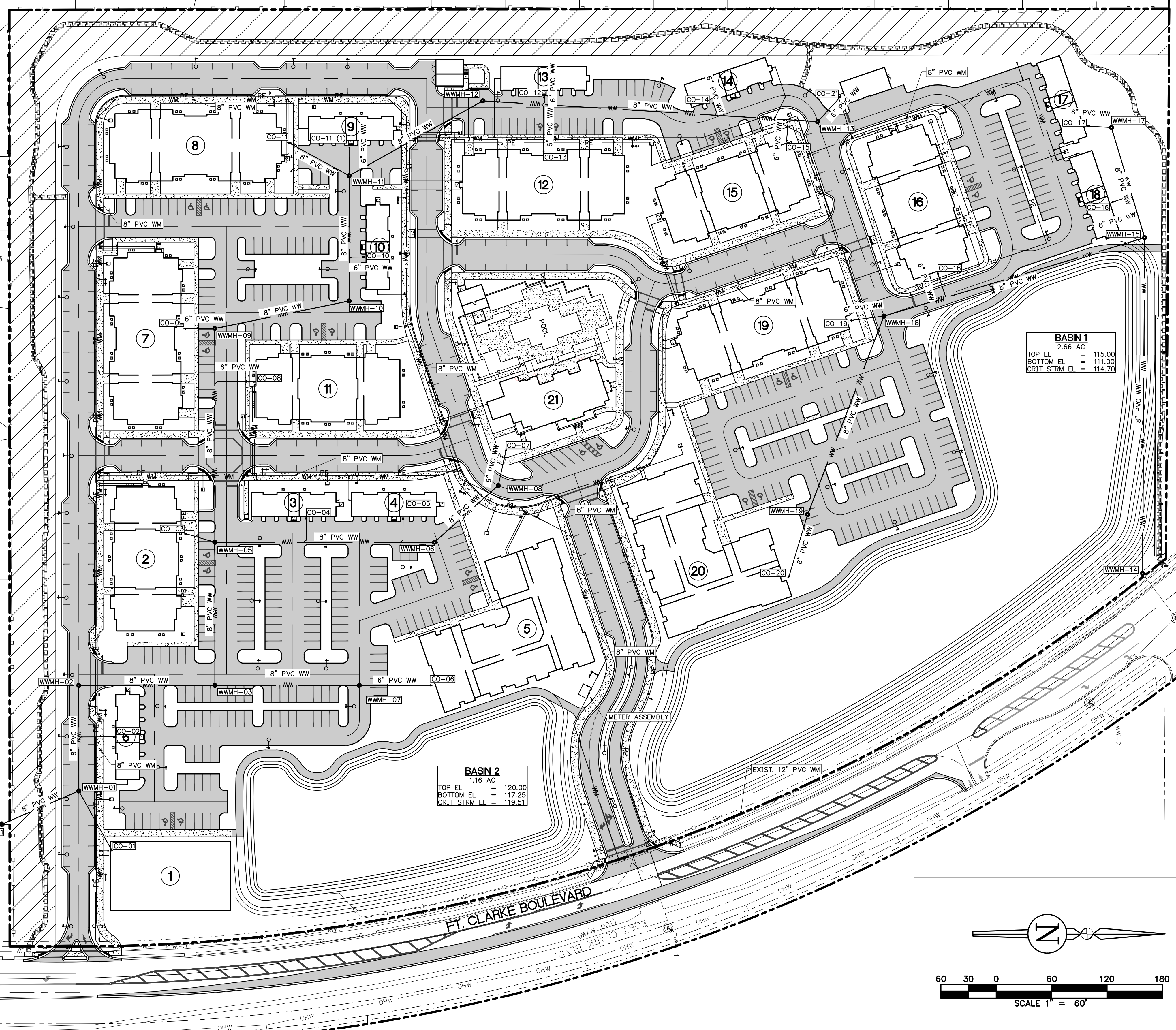
**WASTEWATER PIPE TABLE**

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE & MATERIAL	LENGTH	SLOPE
CO-01	WWMH-01	6" PVC	73'	0.61%
CO-03	WWMH-05	6" PVC	33'	0.38%
CO-06	WWMH-07	6" PVC	77'	0.61%
CO-07	WWMH-08	6" PVC	39'	0.61%
CO-09	WWMH-09	6" PVC	32'	0.60%
CO-11	WWMH-11	6" PVC	74'	0.59%
CO-17	WWMH-17	6" PVC	24'	0.62%
CO-19	WWMH-18	6" PVC	36'	0.60%
CO-20	WWMH-19	6" PVC	70'	0.60%
CO-21	WWMH-13	6" PVC	36'	0.61%
WWMH-01	EX WWMH-01	8" PVC	91'	0.40%
WWMH-02	WWMH-01	8" PVC	114'	0.40%
WWMH-03	WWMH-02	8" PVC	148'	0.40%
WWMH-05	WWMH-03	8" PVC	155'	0.40%

**WASTEWATER PIPE TABLE**

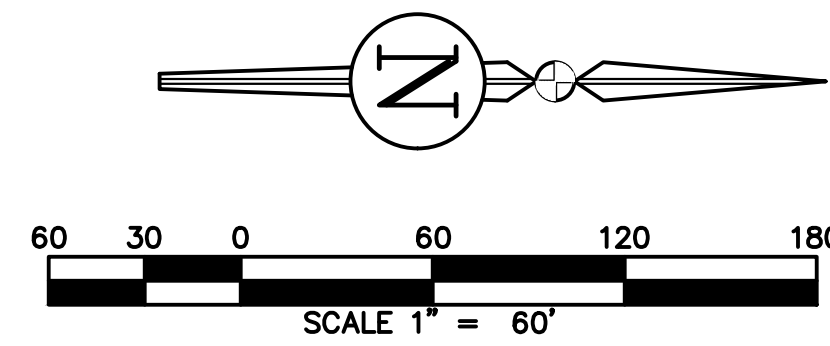
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE & MATERIAL	LENGTH	SLOPE
WWMH-06	WWMH-05	8" PVC	238'	2.39%
WWMH-08	WWMH-06	8" PVC	93'	0.40%
WWMH-09	WWMH-05	8" PVC	232'	0.40%
WWMH-10	WWMH-09	8" PVC	149'	0.40%
WWMH-11	WWMH-10	8" PVC	136'	0.40%
WWMH-12	WWMH-11	8" PVC	166'	0.40%
WWMH-13	WWMH-12	8" PVC	364'	0.40%
WWMH-15	WWMH-14	8" PVC	364'	4.50%
WWMH-17	WWMH-15	8" PVC	125'	4.50%
WWMH-18	WWMH-15	8" PVC	295'	1.43%
WWMH-19	WWMH-18	8" PVC	230'	0.40%

06326-010-186 LOT 186 0.26 ACRES±  
 06326-010-185 LOT 185 0.24 ACRES±  
 06326-010-184 LOT 184 0.18 ACRES±  
 06326-010-183 LOT 183 0.18 ACRES±  
 06326-010-182 LOT 182 0.24 ACRES±  
 06326-010-181 LOT 181 0.25 ACRES±  
 06326-010-176 LOT 176 0.27 ACRES±  
 06326-010-175 LOT 175 0.25 ACRES±  
 06326-010-170 LOT 170 0.25 ACRES±  
 06326-010-169 LOT 169 0.24 ACRES±



**BASIN 1**  
 2.66 AC  
 TOP EL = 115.00  
 BOTTOM EL = 111.00  
 CRIT. STRM. EL. = 114.20

**BASIN 2**  
 1.16 AC  
 TOP EL = 120.00  
 BOTTOM EL = 117.25  
 CRIT. STRM. EL. = 119.51



REVISIONS			DRWN	APPR
NO.	DATE	DESCRIPTION		

ENGINEER OF RECORD: **LOGAN B. PETERS, P.E.**  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE: **MASTER UTILITY PLAN**

CLIENT: **FICKLING AND CO.**  
 MACON, GA

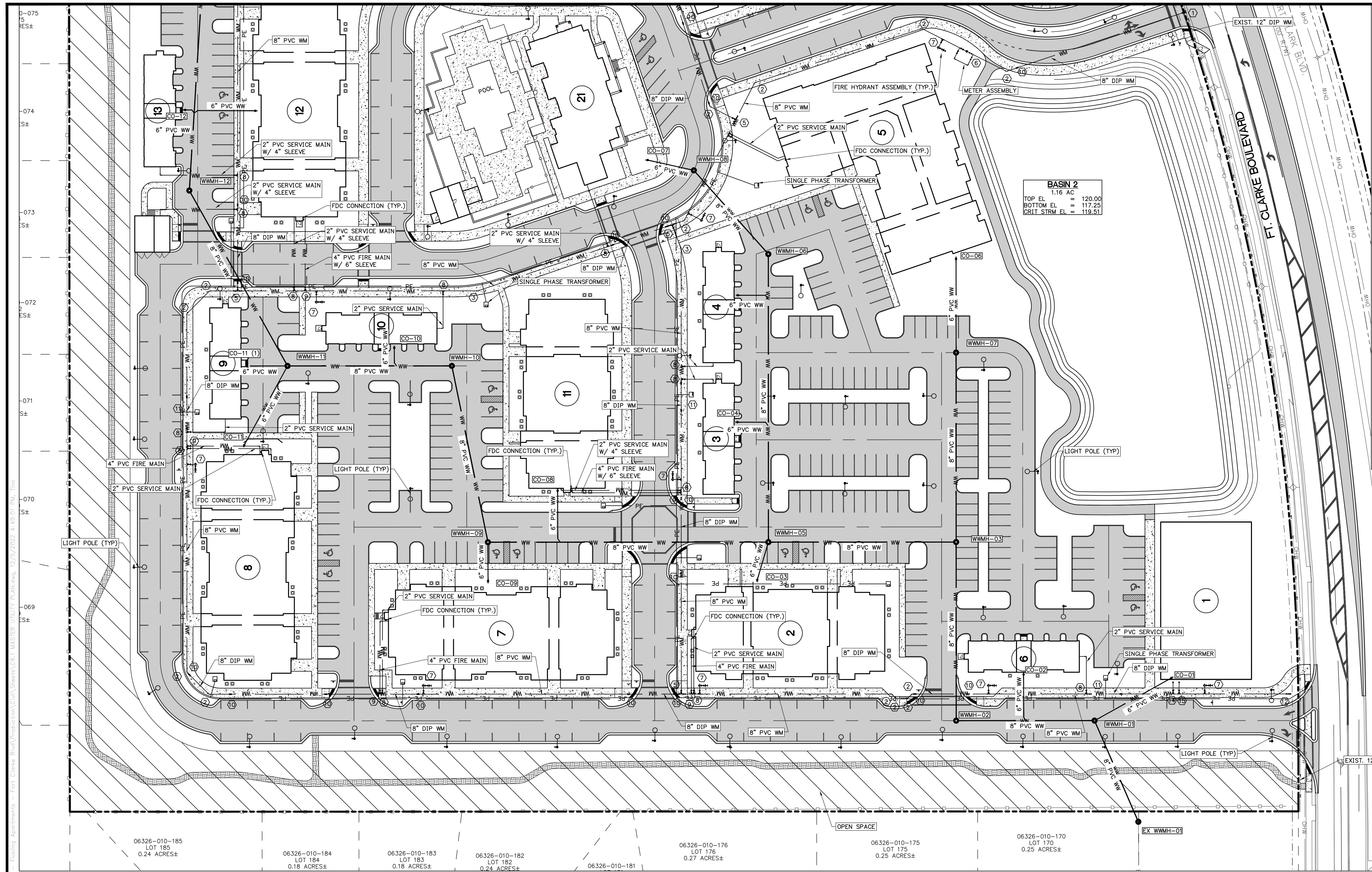
PROJECT: **LULLWATER AT FORT CLARKE BLVD**

DATE: **DECEMBER 2022**

PROJECT NO: **403-19-01**

SHEET NO: **C6.0**





**WATER FITTING SCHEDULE**

- ① 1 - CONNECT TO EXISTING 8" PVC WM  
CONTRACTOR SHALL VERIFY LOCATION OF EX. WM.  
EXTEND PROPOSED WM AS NECESSARY FOR CONNECTION.  
1 - 12" X8" WET TAP  
1 - 8" GATE VALVE AND BOX
- ② 1 - 8" PVC OR CLDIP 45° RESTRAINED BEND
- ③ 1 - 8" PVC OR CLDIP 22.5° RESTRAINED BEND
- ④ 1 - 8" PVC OR CLDIP 11.25° RESTRAINED BEND
- ⑤ 1 - 8" TEE W/ MECHANICAL RESTRAINT  
3 - 8" GATE VALVE AND BOX
- ⑥ 1 - METER ASSEMBLY PER GRU DETAIL W-9.0  
1 - 6" COMPOUND METER
- ⑦ 1 - FH ASSEMBLY PERPENDICULAR TO MAIN  
1 - 8" X6" CLDI TEE  
1 - 6" CLDI ANCHOR 90° BEND, MJ  
1 - 6" GATE VALVE AND BOX  
1 - 6" ANCHOR COUPLING (SWIVEL AND SOLID)
- ⑧ 1 - 8" X2" SADDLE (OR TAPPED TEE)  
1 - 2" GATE VALVE AND BOX
- ⑨ 1 - 8" X4" TEE W/ MECHANICAL RESTRAINT  
1 - 4" GATE VALVE AND BOX
- ⑩ 1 - 8" CLDI (PVC TO DIP) TRANSITION COUPLING
- ⑪ 1 - 20' LENGTH OF 8" CLDIP WM  
1 - 8" CLDI (PVC TO DIP) TRANSITION COUPLING
- ⑫ 1 - 8" GATE VALVE AND BOX  
1 - 3" BLOW OFF ASSEMBLY AND SAMPLE POINT
- ⑬ 1 - 8" PVC OR CLDIP 90° RESTRAINED BEND
- ⑭ 1 - 8" X6" TEE W/ MECHANICAL RESTRAINT  
1 - 6" GATE VALVE AND BOX  
1 - 6" CAP
- ⑮ 1 - 8" X2" SADDLE (OR TAPPED TEE)  
1 - 2" GATE VALVE AND BOX  
1 - 2" CAP
- ⑯ 1 - 8" X4" PVC OR CLDIP REDUCER
- ⑰ 1 - 4" X2" PVC OR CLDIP REDUCER
- ⑱ 1 - 4" PVC OR CLDIP 90° RESTRAINED BEND
- ⑲ 1 - 4" X2" TEE W/ MECHANICAL RESTRAINT  
1 - 2" GATE VALVE AND BOX
- ⑳ 1 - 4" GATE VALVE AND BOX  
1 - 3" BLOW OFF ASSEMBLY AND SAMPLE POINT
- ㉑ 1 - 2" PVC OR CLDIP 90° RESTRAINED BEND  
1 - 2" GATE VALVE AND BOX

**BASIN 2**  
 1.16 AC  
 TOP EL = 120.00  
 BOTTOM EL = 117.25  
 CRIT. STRM. EL. = 119.51

**LOT INFORMATION:**  
 06326-010-185 LOT 185 0.24 ACRES±  
 06326-010-184 LOT 184 0.18 ACRES±  
 06326-010-183 LOT 183 0.18 ACRES±  
 06326-010-182 LOT 182 0.24 ACRES±  
 06326-010-181  
 06326-010-176 LOT 176 0.27 ACRES±  
 06326-010-175 LOT 175 0.25 ACRES±  
 06326-010-170 LOT 170 0.25 ACRES±

**Scale:** 1" = 40'  
 40 20 0 40 80 120

**North Arrow:** N

**REVISIONS**

NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD:  
**LOGAN B. PETERS, P.E.**  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**UTILITY CROSSING PLAN (SOUTH)**

CLIENT:  
**FICKLING AND CO.**  
 MACON, GA

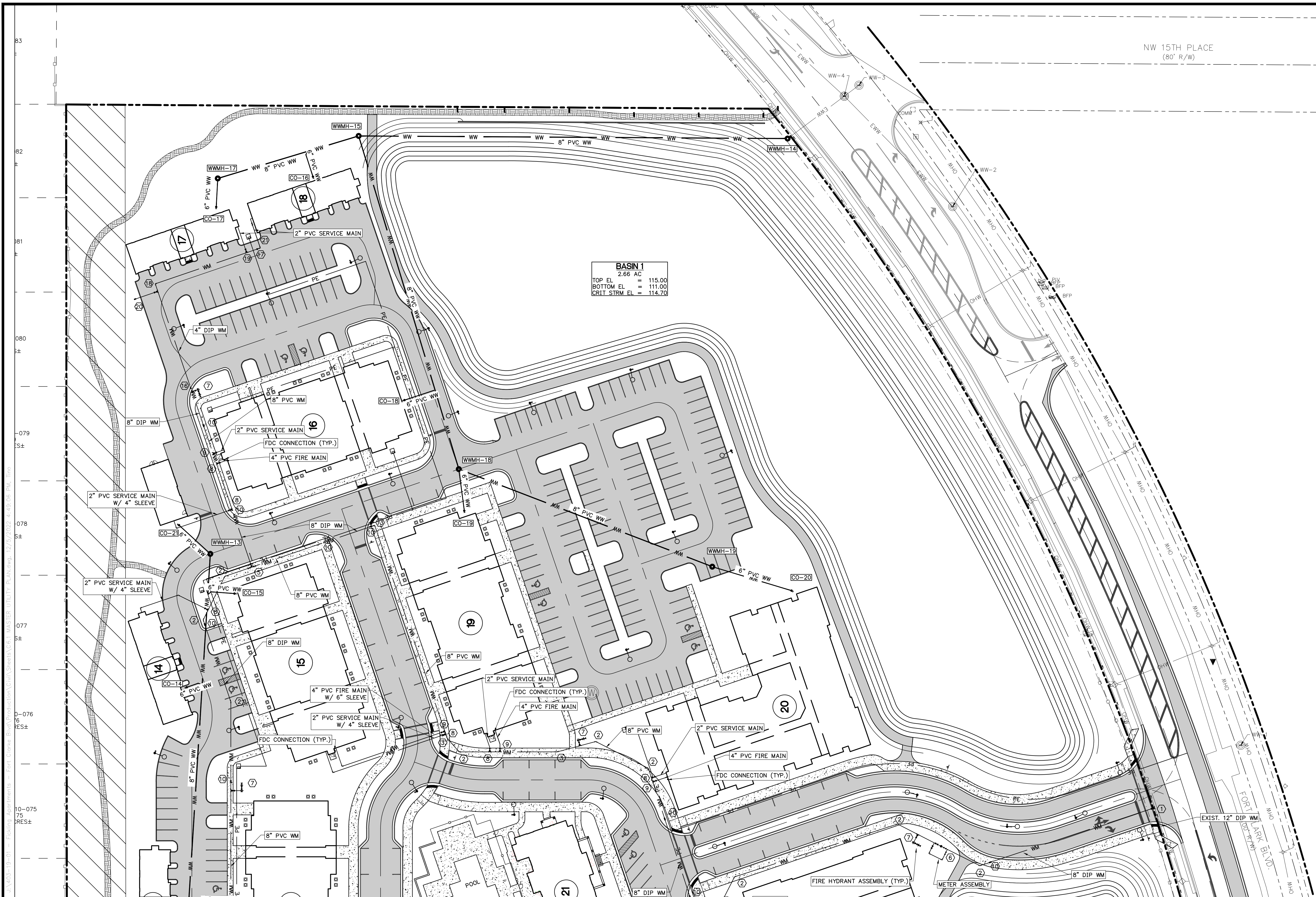
PROJECT:  
**LULLWATER AT FORT CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

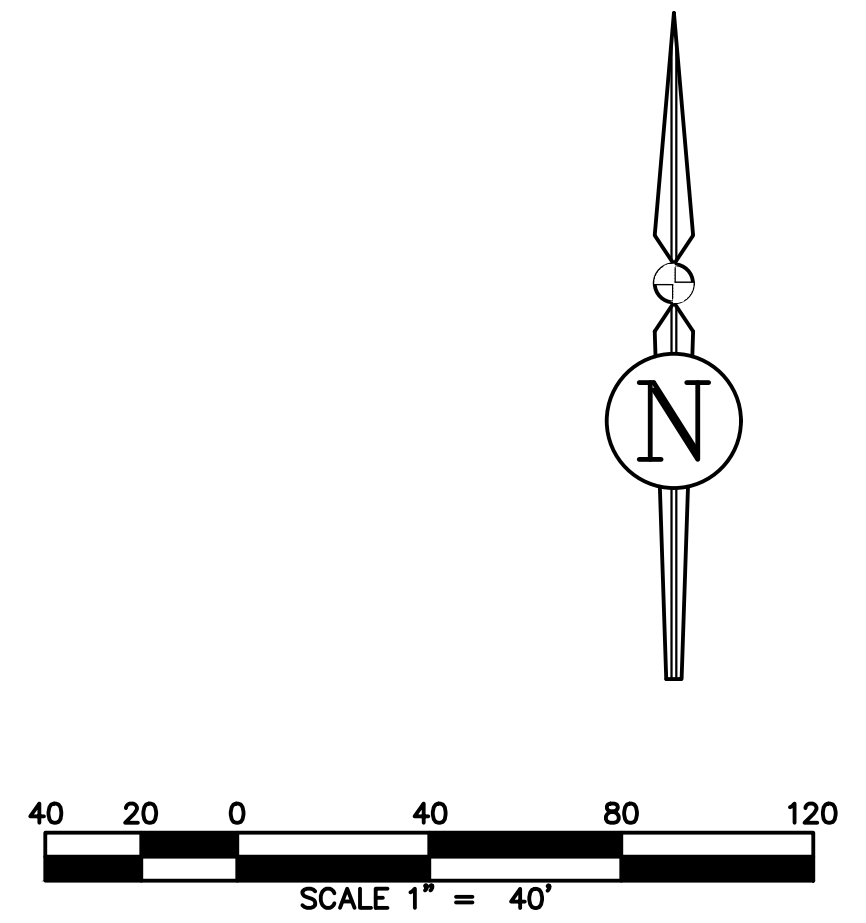
SHEET NO:  
**C6.1**





**WATER FITTING SCHEDULE**

- ① 1 - CONNECT TO EXISTING 8" PVC WM  
 CONTRACTOR SHALL VERIFY LOCATION OF EX. WM.  
 EXTEND PROPOSED WM AS NECESSARY FOR CONNECTION.  
 1 - 12"X8" WET TAP  
 1 - 8" GATE VALVE AND BOX
- ② 1 - 8" PVC OR CLDIP 45° RESTRAINED BEND
- ③ 1 - 8" PVC OR CLDIP 22.5° RESTRAINED BEND
- ④ 1 - 8" PVC OR CLDIP 11.25° RESTRAINED BEND
- ⑤ 1 - 8" TEE W/ MECHANICAL RESTRAINT  
 3 - 8" GATE VALVE AND BOX
- ⑥ 1 - METER ASSEMBLY PER GRU DETAIL W-9.0  
 1 - 6" COMPOUND METER
- ⑦ 1 - FH ASSEMBLY PERPENDICULAR TO MAIN  
 1 - 8"X6" CLDI TEE  
 1 - 6" CLDI ANCHOR 90° BEND, MJ  
 1 - 6" GATE VALVE AND BOX  
 1 - 6" ANCHOR COUPLING (SWIVEL AND SOLID)
- ⑧ 1 - 8"X2" SADDLE (OR TAPPED TEE)  
 1 - 2" GATE VALVE AND BOX
- ⑨ 1 - 8"X4" TEE W/ MECHANICAL RESTRAINT  
 1 - 4" GATE VALVE AND BOX
- ⑩ 1 - 8" CLDI (PVC TO DIP) TRANSITION COUPLING
- ⑪ 1 - 20' LENGTH OF 8" CLDIP WM  
 1 - 8" CLDI (PVC TO DIP) TRANSITION COUPLING
- ⑫ 1 - 8" GATE VALVE AND BOX  
 1 - 3" BLOW OFF ASSEMBLY AND SAMPLE POINT
- ⑬ 1 - 8" PVC OR CLDIP 90° RESTRAINED BEND
- ⑭ 1 - 8"X6" TEE W/ MECHANICAL RESTRAINT  
 1 - 6" GATE VALVE AND BOX  
 1 - 6" CAP
- ⑮ 1 - 8"X2" SADDLE (OR TAPPED TEE)  
 1 - 2" GATE VALVE AND BOX  
 1 - 2" CAP
- ⑯ 1 - 8"X4" PVC OR CLDIP REDUCER
- ⑰ 1 - 4"X2" PVC OR CLDIP REDUCER
- ⑱ 1 - 4" PVC OR CLDIP 90° RESTRAINED BEND
- ⑲ 1 - 4"X2" TEE W/ MECHANICAL RESTRAINT  
 1 - 2" GATE VALVE AND BOX
- ⑳ 1 - 4" GATE VALVE AND BOX  
 1 - 3" BLOW OFF ASSEMBLY AND SAMPLE POINT
- ㉑ 1 - 2" PVC OR CLDIP 90° RESTRAINED BEND  
 1 - 2" GATE VALVE AND BOX



REVISIONS		DRWN	APPR
NO.	DATE	DESCRIPTION	

ENGINEER OF RECORD:  
 LOGAN B. PETERS, P.E.  
 FLORIDA LICENSE NO. 88516

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SHEET TITLE:  
**UTILITY CROSSING PLAN (NORTH)**

CLIENT:  
**FICKLING AND CO.  
 MACON, GA**

PROJECT:  
**LULLWATER AT FORT  
 CLARKE BLVD**

DATE:  
**DECEMBER 2022**

PROJECT NO:  
**403-19-01**

SHEET NO:  
**C6.2**



**GRU UTILITY CONSTRUCTION NOTES**

- A. A UTILITY PERMIT IS REQUIRED FROM GAINESVILLE REGIONAL UTILITIES.
- B. 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/WW/RCW DESIGN STANDARDS.
- C. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS SHALL CONFORM TO GRU'S MOST RECENT POTABLE WATER, WASTEWATER, & RECLAIMED WATER SYSTEM DESIGN AND CONSTRUCTION STANDARDS, AND APPROVED MATERIALS MANUAL.
- D. POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
- E. 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 BUILDINGS, TRANSFORMERS, AND ALL PERMANENT STRUCTURES. SERVICE LATERALS REQUIRE 5 FEET LESS CLEARANCE FOR EACH OF THE UTILITIES; NOTE THAT WATER SERVICE LATERALS SHALL BE INSTALLED WITHIN 3" SLEEVES. NOTE: WITHIN THE GAINESVILLE CITY LIMITS, SEPARATION TO TREES IS REDUCED TO 7.5' FOR PRESSURIZED MAINS AND 10' (MINIMUM) FOR GRAVITY MAINS. (SEE APPENDIX C OF GRU'S DESIGN STANDARDS AND CONSTRUCTION DETAILS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER - HORIZONTAL SEPARATION DISTANCES FOR PARALLEL AND PERPENDICULAR CLEARANCE FROM OTHER OBJECTS TABLE.)
- F. 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 YOKE 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/WW/RCW CONSTRUCTION DETAIL W - 8.0), WITH A ONE-YEAR WARRANTY.
- G. 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.
- H. 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.
- I. 1" OR 2" WATER SERVICE CROSSINGS LOCATED UNDER ROADWAYS SHALL BE ENCASED IN 3" SCH 40 PVC EXTENDING 5' PAST THE BACK OF CURB (3' INSIDE CITY OF GAINESVILLE LIMITS).
- J. ANCHORING TEES, COUPLINGS, AND BENDS SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.
- K. 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, ROW - 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.
- L. ALL SANITARY WASTEWATER SERVICE LATERALS SHALL BE MIN. 4" DIAMETER PVC (SDR 26) AT 1.00% MIN. SLOPE UNLESS OTHERWISE LABELED.
- M. WASTEWATER CLEANOUT COVERS LOCATED WITHIN PAVEMENT AND SIDEWALKS ADJACENT TO PAVED AREAS SHALL BE RATED FOR TRAFFIC LOAD BEARING.
- N. MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RIM ELEVATION AT LEAST 6" ABOVE FINISHED GRADE, AND AT A 10:1 SLOPE TO FINISHED GRADE.
- O. 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.
- P. AIR CONDITIONING CONDENSATE LINES SHALL NOT DISCHARGE TO WASTEWATER LINES.
- Q. CONTRACTOR SHALL USE SUNSHINE ONE-CALL (CALL 811 BEFORE YOU DIG) PRIOR TO ANY EXCAVATION ON SITE.

**GENERAL UTILITY NOTES WATER AND WASTEWATER**

**POTABLE WATER - GRU**

- 1. PRIOR TO CONNECTION TO EXISTING WATER MAIN, CONTRACTOR SHALL CONTACT GRU AND COORDINATE CONNECTION WITH GRU WATER/WASTEWATER INSPECTOR A MINIMUM OF 7 DAYS BEFORE PLANNED CONNECTION.
- 2. THE FLORIDA BUILDING/PLUMBING CODE GOVERNS THE CONNECTION BETWEEN THE WATER METERS AND THE BUILDINGS. JBPRO HAS SPECIFIED A RECOMMENDED ROUTE FOR THIS CONNECTION. HOWEVER, SHOULD THE REQUIREMENTS OF THE FLORIDA BUILDING CODE DIFFER FROM WHAT IS DEPICTED ON THE PLANS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND PLUMBER TO NOTIFY JBPRO AND THE OWNER TO COORDINATE ANY SITE PLAN CHANGES IN ORDER TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE.
- 3. WATER MAINS SHALL BE INSTALLED WITH 30" TO 36" OF COVER. WATER MAINS AND ASSOCIATED FITTINGS MAY BE DEFLECTED IN ACCORDANCE WITH THE SPECIFIED LIMITATIONS FROM THE MANUFACTURER.
- 4. WATER METERS SHALL BE OUTSIDE OF LANDSCAPE AND PAVED AREAS, A MINIMUM OF 5' FROM BUILDINGS, BEHIND SIDEWALKS, AND BE A MINIMUM OF 2 FEET FROM THE EDGE OF PAVEMENT.
- 5. FOR WATER MAINS, ALL MECHANICAL JOINT FITTINGS SHALL HAVE RESTRAINING JOINT GLANDS. PIPE SHALL BE RESTRAINED FOR SUFFICIENT LENGTH TO PROVIDE REACTION FOR BENDS & DEAD ENDS.
- 6. POTABLE WATER DEMAND
  - a. LULLWATER APARTMENTS - 298 UNITS
    - (i) AVERAGE DAILY FLOW = 250 GPD PER UNIT X 298 UNITS = 74,500 GPD.
    - USE 2.5 PEAKING FACTOR: PEAK FLOW = 2.5 X 74,500 GPD X (1 DAY/1,440 MIN) = 129.3 GPM.
  - b. COMMERCIAL - 9,750 SF
    - (i) AVERAGE DAILY FLOW = 0.1 GPD PER 1 SF X 9,750 SF = 975 GPD.
    - USE 2.5 PEAKING FACTOR: PEAK FLOW = 2.5 X 975 GPD X (1 DAY/1,440 MIN) = 1.69 GPM.

**WASTEWATER - GRU**

- 1. PRIOR TO CONNECTION TO EXISTING WASTEWATER, CONTRACTOR SHALL CONTACT GRU AND COORDINATE CONNECTION WITH GRU WATER/WASTEWATER INSPECTOR A MINIMUM OF 7 DAYS BEFORE PLANNED CONNECTION.
- 2. GRAVITY WASTEWATER MAINS WITH 14 FEET OF COVER OR LESS FROM THE PROPOSED GRADE SHALL BE SDR 35 PVC. GRAVITY WASTEWATER MAINS WITH GREATER THAN 14 FEET OF COVER BUT LESS THAN 20 FEET SHALL BE SDR 26 PVC. GRAVITY MAINS WITH 20-25 FEET OF COVER SHALL BE DR-18 PVC.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF UNSUITABLE MATERIALS AND FURNISH GRU APPROVED MATERIAL FOR THE BACKFILLING OF WASTEWATER LINES AT NO ADDITIONAL COST TO OWNER. THE CONTRACTOR MAY DISPOSE OF UNSUITABLE MATERIAL ONSITE WITH PERMISSION OF THE OWNER.
- 4. PVC GRAVITY WASTEWATER MAINS SHALL HAVE A MINIMUM OF 3 FEET OF COVER FROM PROPOSED GRADE.
- 5. WASTEWATER LATERAL CLEANOUTS INSTALLED OUTSIDE OF PAVEMENT SHALL HAVE ADJUSTABLE TOPS, TO ALLOW FOR ADJUSTMENT WITH FINAL LOT GRADING.
- 6. WASTEWATER LATERALS CONNECTING TO THE MAIN SHALL BE CONNECTED WITH A WYE FITTING ROTATED 45 DEGREES UP. THE INVERT ELEVATION OF THE SERVICE AT THE MAIN SHALL BE AT OR ABOVE THE CROWN OF THE MAIN.
- 7. WASTEWATER MAINS AND MANHOLES SHALL BE MAINTAINED BY GRU. WASTEWATER SERVICE LATERALS SHALL BE MAINTAINED BY GRU FROM THE MAIN/MANHOLE TO THE CLEANOUT.
- 8. WASTEWATER DEMAND
  - a. LULLWATER APARTMENTS - 298 UNITS
    - (i) AVERAGE DAILY FLOW = 250 GPD PER UNIT X 298 UNITS = 74,500 GPD.
    - USE 2.5 PEAKING FACTOR: PEAK FLOW = 2.5 X 74,500 GPD X (1 DAY/1,440 MIN) = 129.3 GPM.
  - b. COMMERCIAL - 9,750 SF
    - (i) AVERAGE DAILY FLOW = 0.1 GPD PER 1 SF X 9,750 SF = 975 GPD.
    - USE 2.5 PEAKING FACTOR: PEAK FLOW = 2.5 X 975 GPD X (1 DAY/1,440 MIN) = 1.69 GPM.

**GAS - GRU**

- 1. MAINTAIN A MINIMUM 12" ALL-CLEAR ZONE (HORIZONTAL & VERTICAL) AROUND GAS MAINS AND SERVICES. MAINTAIN A MINIMUM DEPTH OF 3' FOR THE GAS MAIN AND ASSOCIATED CASINGS
- 2. ALL GAS CASINGS SHALL BE INSTALLED BY CONTRACTOR. CONTACT GRU GAS, ERIC WILLIAMS AT 352-393-1467 72 HOURS IN ADVANCE OF INSTALLING CASING.
- 3. CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 36" FOR THE GAS MAIN AND ASSOCIATED CASINGS DURING ALL PHASES OF CONSTRUCTION.
- 4. ALL PVC JOINTS SHALL BE PROPERLY CLEANED, PRIMED, AND GLUED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

**FIRE PROTECTION**

- 1. BASED ON NFPA 2009 FIRE FLOW CALCULATIONS, FIRE PROTECTION DEMAND FOR NEW BUILDINGS ARE 2,750 GPM FOR A 2HR DURATION. NO NEW HYDRANTS ARE PROPOSED
- 2. THE EXISTING FDC ON THE EXISTING BACKFLOW PREVENTER SHALL BE FURNISHED WITH SIGNAGE AND BACKFLOW FREEZE PROTECTION.

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD:	LOGAN B. PETERS, P.E. FLORIDA LICENSE NO. 88516
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NOT FOR  
CONSTRUCTION**

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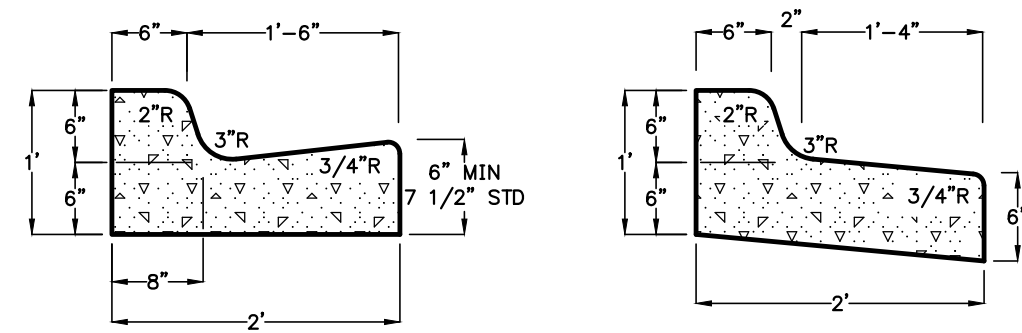


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Toll Free: (844) Go-JBPro | E-mail: [contact@jbpro.com](mailto:contact@jbpro.com)

SHEET TITLE: <b>UTILITY DETAILS AND NOTES</b>		DATE: <b>DECEMBER 2022</b>
CLIENT: <b>FICKLING AND CO. MACON, GA</b>		PROJECT NO: <b>403-19-01</b>
PROJECT: <b>LULLWATER AT FORT CLARKE BLVD</b>		SHEET NO: <b>C6.3</b>

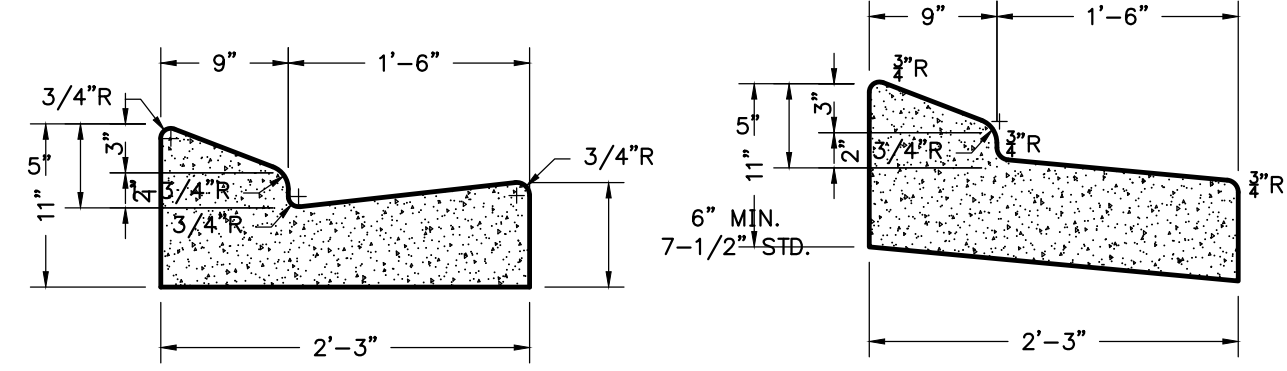




STANDARD SPILL-OUT

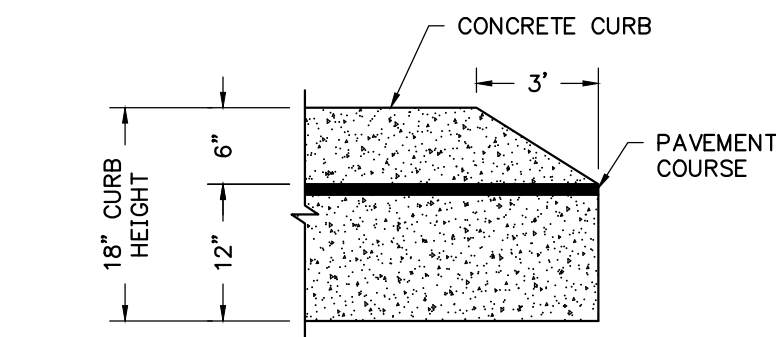
NOTE: WHEN USED ON THE HIGH SIDE OF ROADWAYS, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON THE PLANS.

TYPE 'F' CONCRETE CURB AND GUTTER N.T.S.

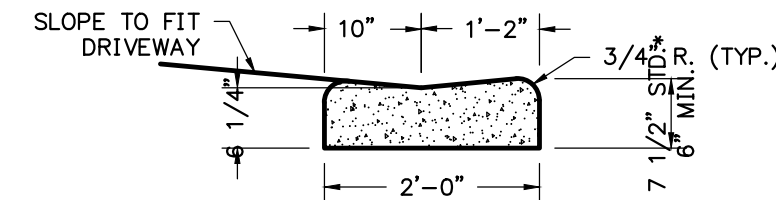


STANDARD SPILL-OUT TYPE 'E' CONCRETE CURB AND GUTTER N.T.S.

NOTES:  
1. WHEN USED ON THE HIGH SIDE OF ROADWAYS, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON THE PLANS.  
2. TYPE "E" CURB AND GUTTER USED WHERE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

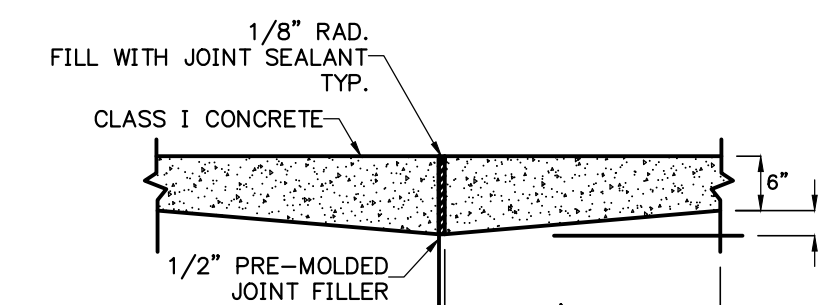


STANDARD CURB END TAPER DETAIL N.T.S.

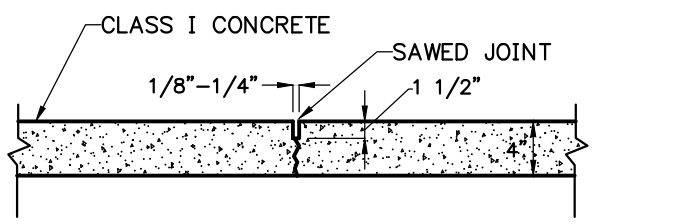


DROP CURB DETAIL N.T.S.

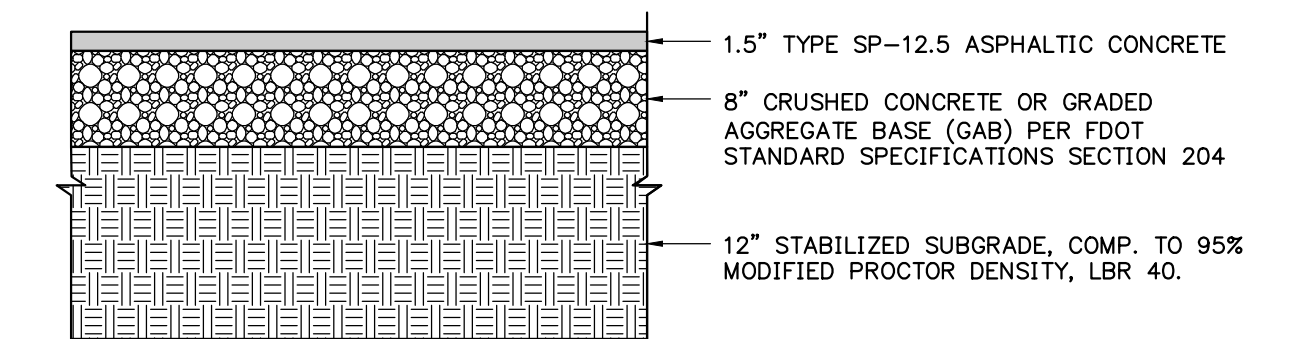
\* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON PLANS.



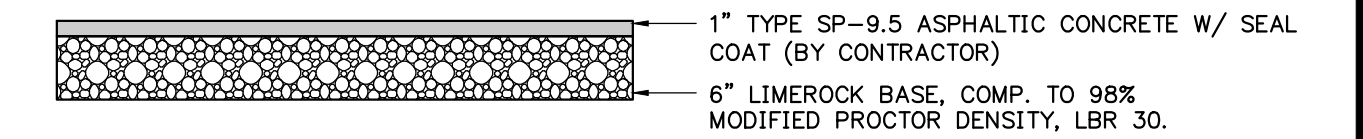
EXPANSION JOINT DETAIL N.T.S.



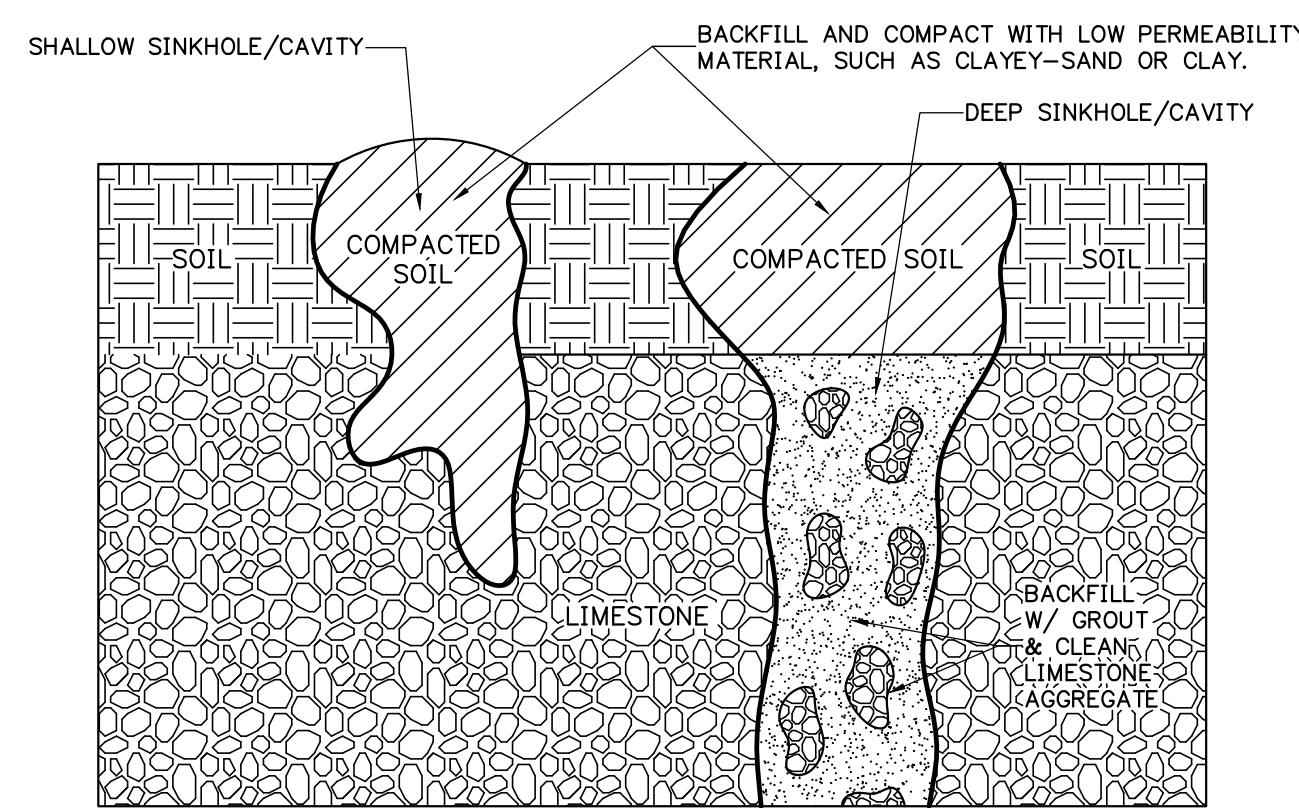
CONTRACTION (CONTROL) JOINT DETAIL N.T.S.



ASPHALT PAVEMENT DETAIL #1 - SITE PARKING LOT + LOADING N.T.S.



TYPICAL MULTI-USE PATH PAVEMENT DETAIL N.T.S.



SECTION VIEW

SHALLOW AND DEEP SINKHOLE/CAVITY MAINTENANCE REPAIR DETAIL N.T.S.

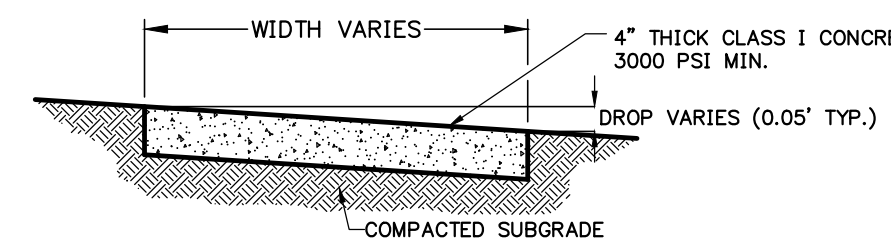
NOTES

IN THE EVENT THAT ANY KARST FEATURES SUCH AS SINKHOLES, SOLUTION CAVITIES, CHIMNEYS, ETC. ARE DISCOVERED DURING ROUTINE INSPECTIONS OF THE STORMWATER BASINS, THE FOLLOWING REMEDIATION PROCEDURE SHALL BE PERFORMED:

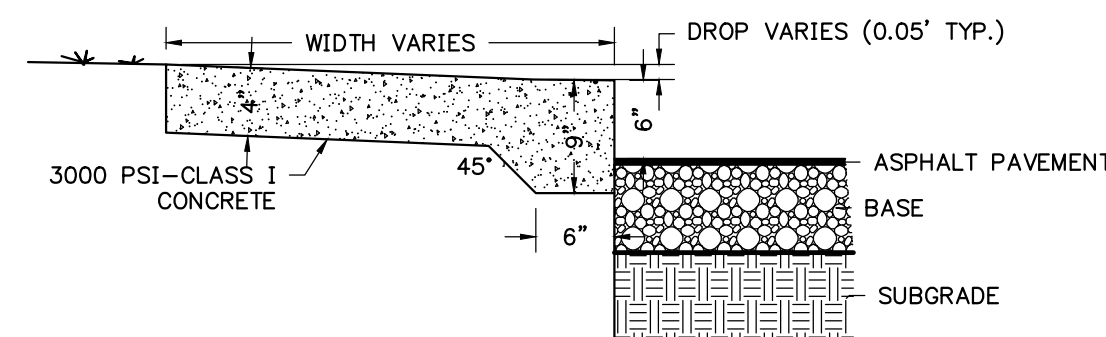
SHALLOW REPAIR (SEE DETAIL): IF THE COLLAPSE IS SHALLOW (<5' DEEP) AND THE VOIDS IN THE LIMESTONE ARE SMALL, THEN THE SINKHOLE CAN BE REPAIRED BY BACKFILLING WITH A LOWER-PERMEABILITY MATERIAL, SUCH AS CLAYEY-SAND OR CLAY. THE MATERIAL SHOULD BE COMPACTED AND THE REPAIR SHALL BE SLIGHTLY ABOVE THE ORIGINAL BOTTOM IN ORDER TO CREATE A SMALL MOUND TO ACCOUNT FOR SETTLING.

DEEP REPAIR (SEE DETAIL): IF THE COLLAPSE IS DEEP, THEN THE REPAIR SHALL BE MORE PERMANENT. THE COLLAPSE SHALL BE EXCAVATED TO THE LIMESTONE BEDROCK. THE VOID(S) IN THE BEDROCK SHALL BE PLUGGED WITH CLEAN GROUT. A LOW PERMEABILITY MATERIAL SHALL BE PLACED OVER THE CONCRETE PLUS. THE MATERIAL SHALL BE COMPACTED AND BROUGHT TO EXISTING BASIN BOTTOM.

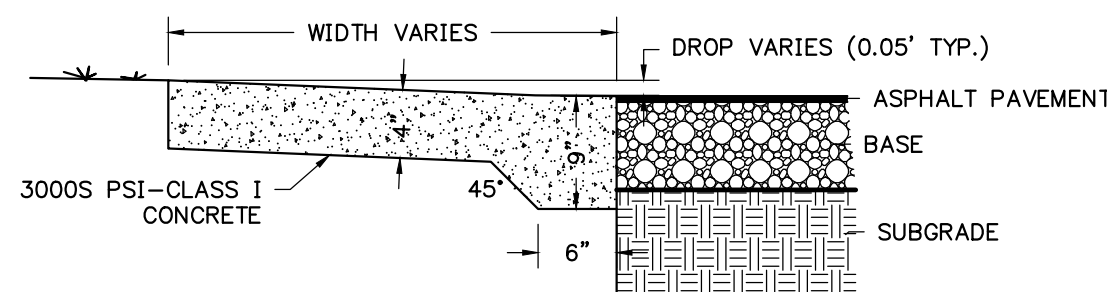
NOTIFICATION: THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD) SHALL BE NOTIFIED OF ANY SINKHOLE DEVELOPMENT WITHIN 48 HOURS OF DISCOVERY AND THE PROPOSED METHOD BY WHICH THE SINKHOLE WILL BE REPAIRED SHALL BE SUBMITTED TO THE SRWMD FOR APPROVAL WITHIN 30 DAYS. THE SRWMD WILL THEN NOTIFY THE RESPONSIBLE PARTY AS TO THE ACCEPTANCE, DENIAL OR NEED FOR MODIFICATION OF THE REPAIR METHOD.



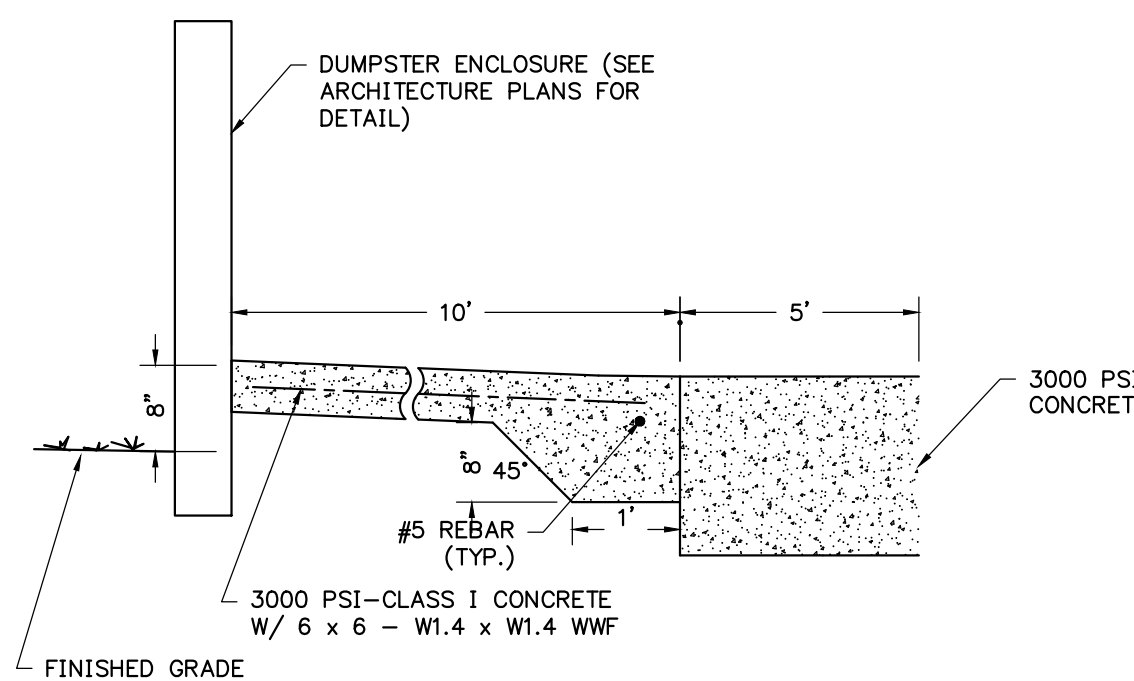
TYPICAL AT GRADE SIDEWALK DETAIL N.T.S.



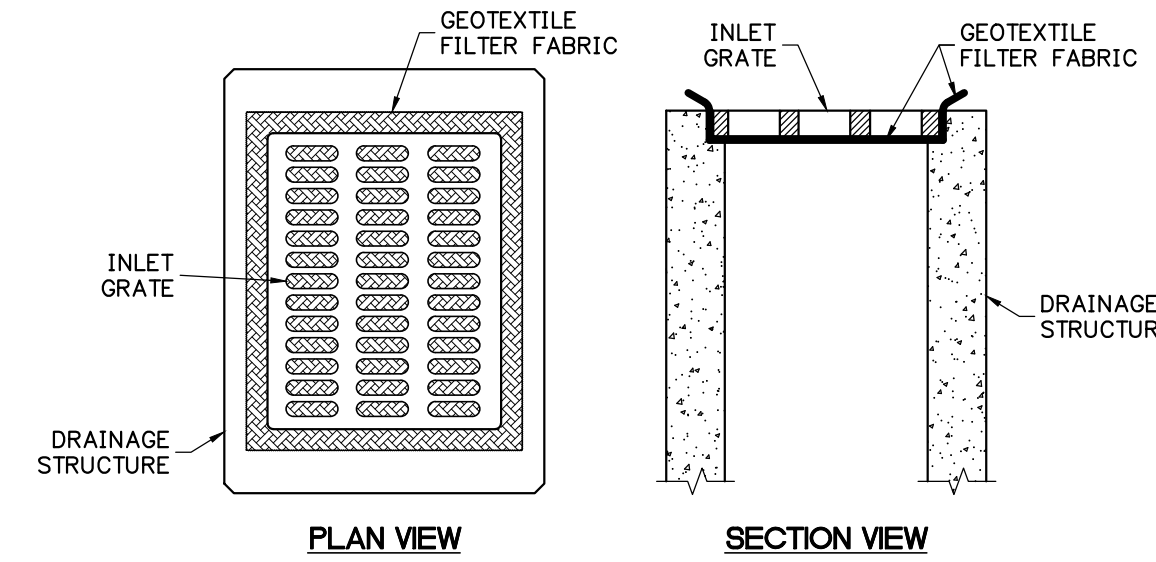
TYPICAL STEP-UP SIDEWALK DETAIL N.T.S.



TYPICAL FLUSH SIDEWALK DETAIL N.T.S.



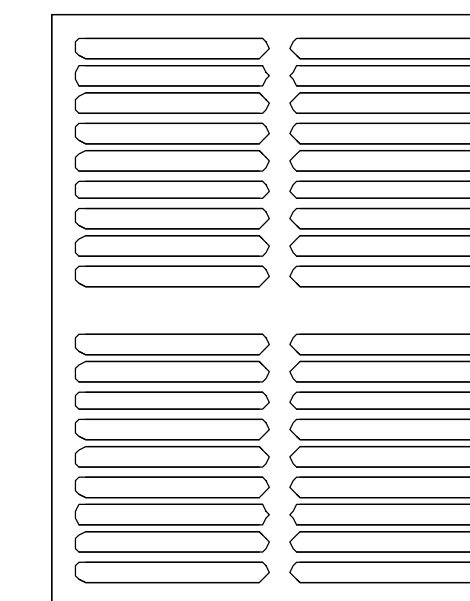
CONCRETE DUMPSTER PAD DETAIL N.T.S.



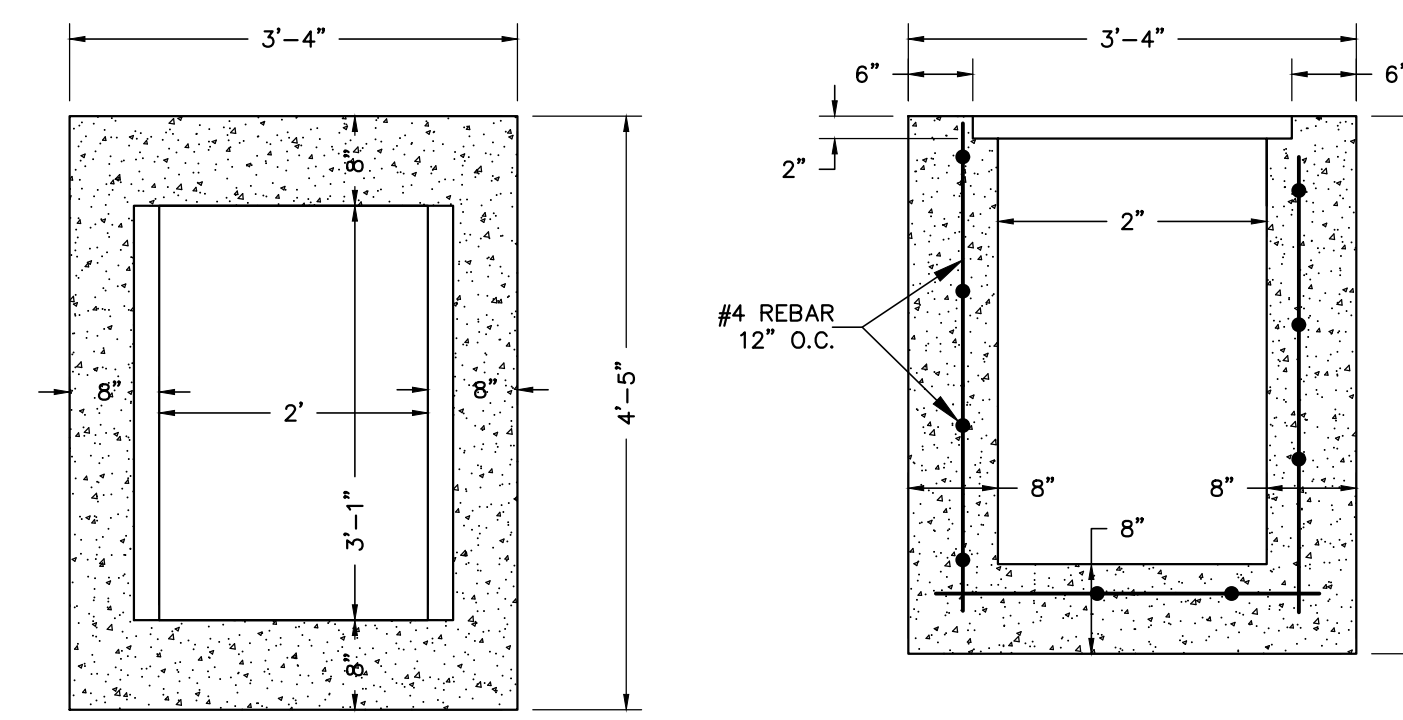
PLAN VIEW SECTION VIEW

NOTE: ALL INLETS WITHIN THE CONSTRUCTION SITE SHALL BE PROTECTED DURING CONSTRUCTION.

INLET PROTECTION DETAIL

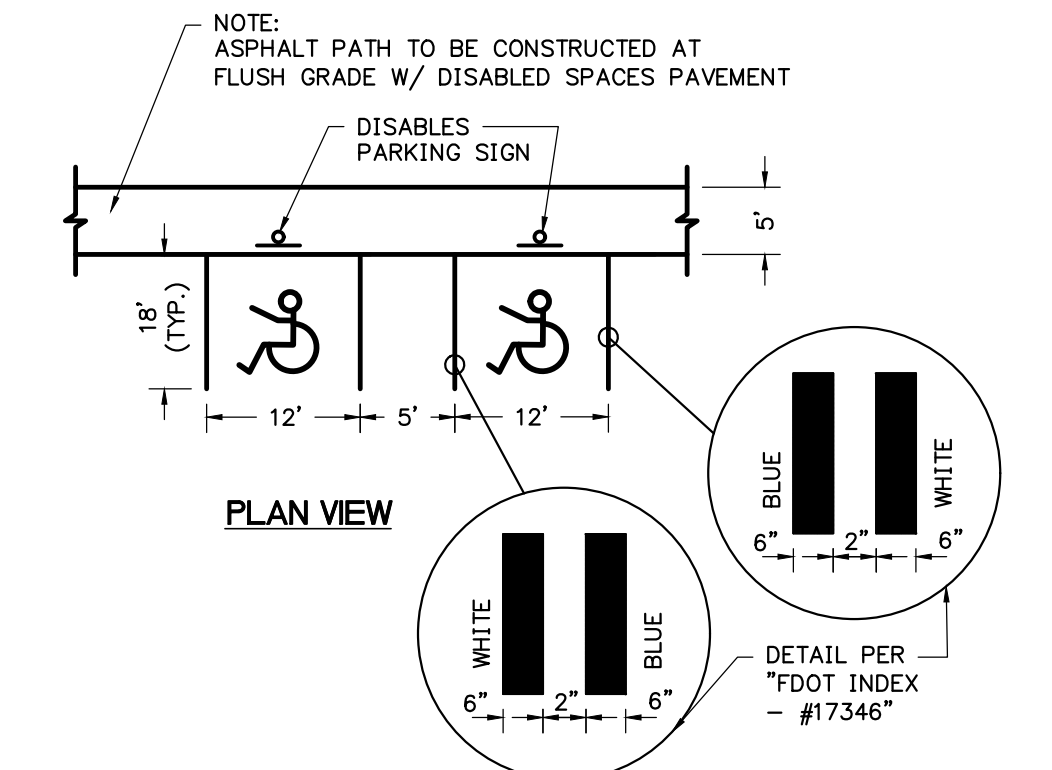


TYPE 'C' GRATE - FDOT INDEX 425-025 N.T.S.



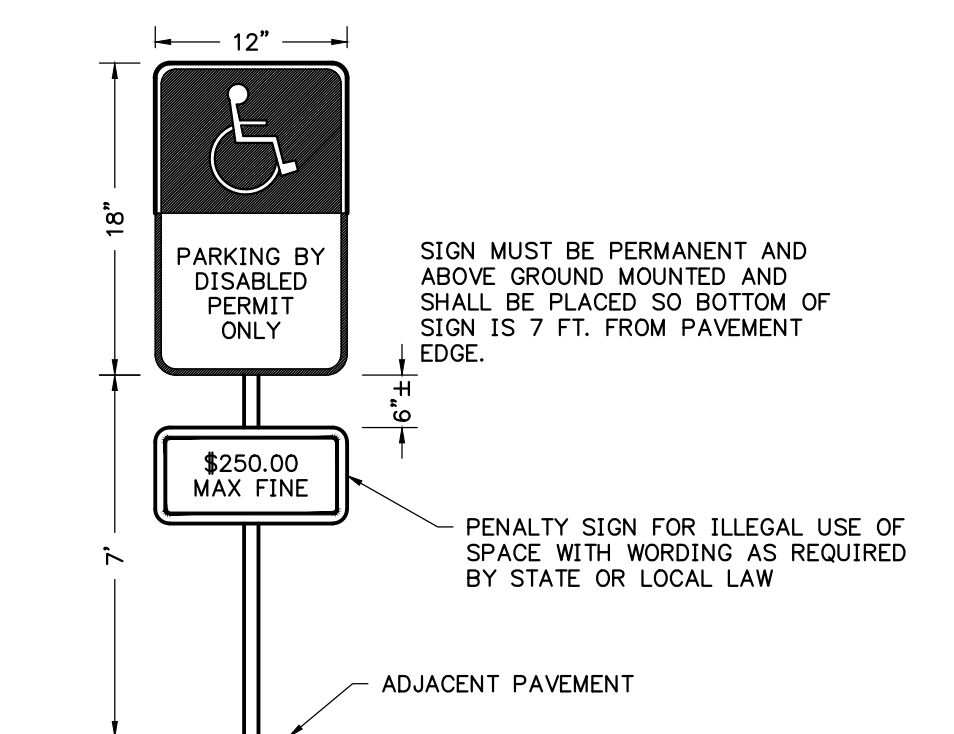
PLAN VIEW PROFILE VIEW

TYPE 'C' INLET - FDOT INDEX 425-052 N.T.S.



PLAN VIEW

DETAIL OF DISABLED PARKING ACCESS N.T.S.



DISABLED PARKING SPACE SIGN DETAIL N.T.S.

REVISIONS				
NO.	DATE	DESCRIPTION	DRWN	APPR

ENGINEER OF RECORD:	LOGAN B. PETERS, P.E. FLORIDA LICENSE NO. 88516
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SHEET TITLE: **DETAILS AND NOTES**

CLIENT: **FICKLING AND CO. MACON, GA**

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DATE:	DECEMBER 2022
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