

GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

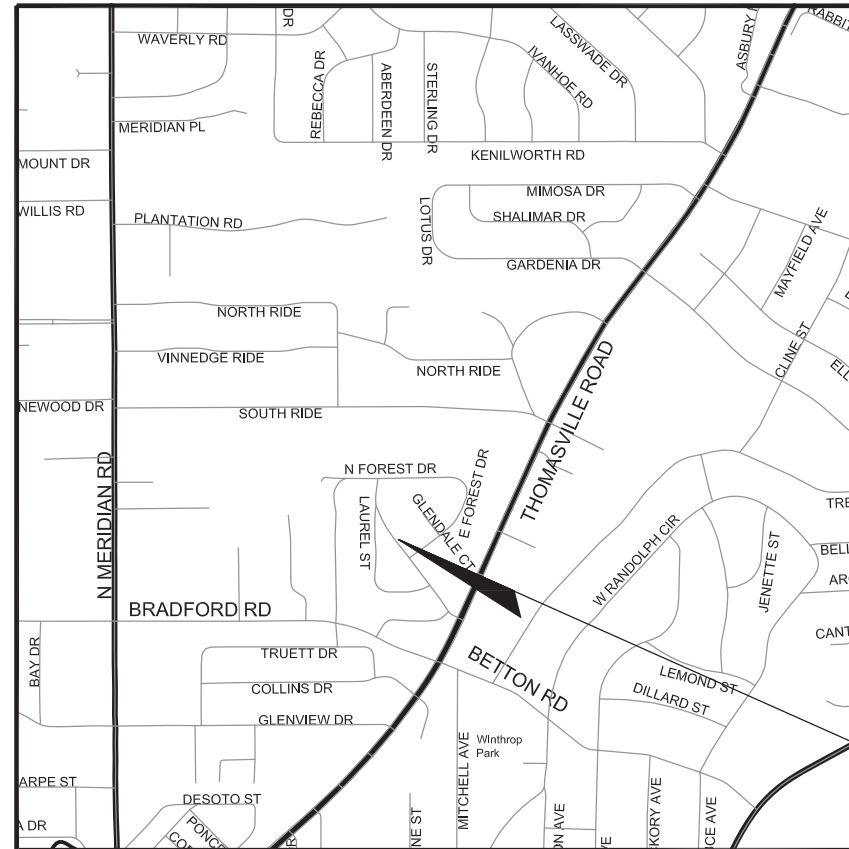
PLANS PREPARED FOR:



UNDERGROUND UTILITIES DEPARTMENT
WATER RESOURCES ENGINEERING
STORMWATER MANAGEMENT
C.O.T. WORK ORDER NO. 1500486

INDEX OF SHEETS

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LOCATION MAP

1" = 800'

NORTH AMERICAN VERTICAL DATUM OF 1988

PLANS PREPARED BY:

EUTAW, INC

2822 REMINGTON GREEN CIRCLE, SUITE 202
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CERTIFICATE OF AUTHORIZATION #9961

ENGINEER OF RECORD:

LANE P. LUCAS, P.E.
FLORIDA PE #53936

APPROVED FOR CONSTRUCTION

Ray T. Einarson

STORMWATER MANAGEMENT DIVISION

DATE: 12/14/18

SET NO.: _____

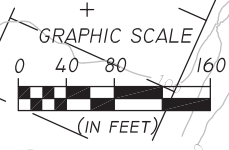
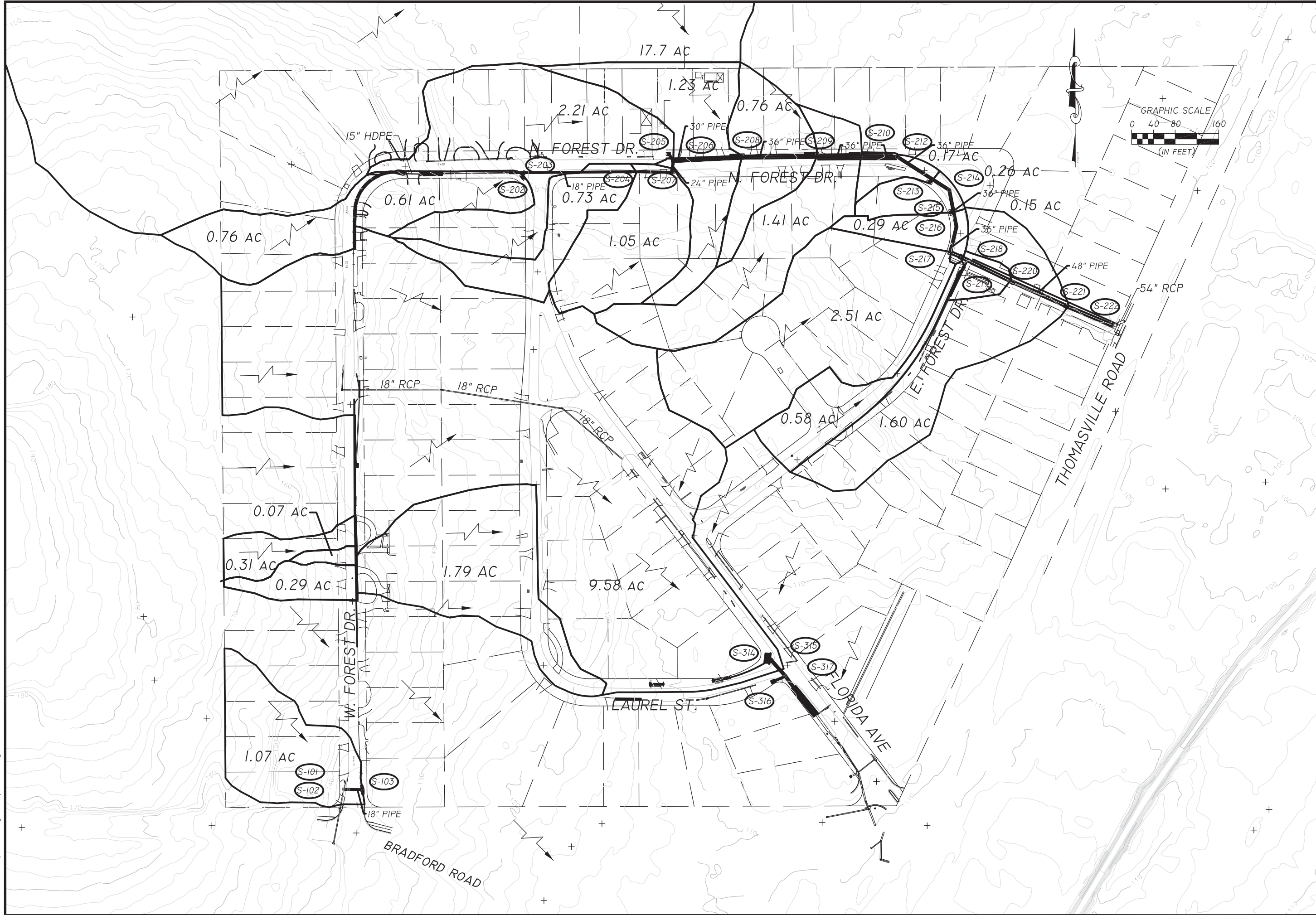
GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2017-18 AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 2018, AS AMENDED BY CONTRACT DOCUMENTS.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

REVISIONS			
NO.	DESCRIPTION	BY	DATE

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 2822 Remington Green Circle
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5	_____

SHEET _____

PROJECT
**GLENDALE NEIGHBORHOOD
 DRAINAGE IMPROVEMENTS**

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JOB NO. _____

DRAWN _____

DESIGNED _____

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QC _____

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GENERAL NOTES:

- 1. THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE CITY AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.
- 2. AT LEAST THREE CALENDAR DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE; THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A TENTATIVE BASE CONSTRUCTION SCHEDULE, A PRECONSTRUCTION SURVEY, A TRAFFIC CONTROL PLAN, AND A SEDIMENT AND EROSION CONTROL PLAN. NO WORK SHALL BEGIN PRIOR TO APPROVAL OF THE CONSTRUCTION SCHEDULE, PRECONSTRUCTION SURVEY, TRAFFIC CONTROL PLAN, AND SEDIMENT AND EROSION CONTROL PLAN.
- 3. THE CONSTRUCTION SCHEDULE SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE ENGINEER, AND SHALL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. THE UPDATED SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER NO LATER THAN THREE DAYS PRIOR TO EACH SCHEDULED MONTHLY PROGRESS MEETING. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- 4. THE PRECONSTRUCTION SURVEY SHALL VERIFY THE CONTROL POINTS AND BENCH MARK ELEVATIONS PROVIDED BY THE ENGINEER AND SHALL ALSO ESTABLISH THE LOCATION AND DESCRIPTION OF ALL ADDITIONAL REFERENCE POINTS AND THE LOCATIONS, DESCRIPTIONS, AND ELEVATIONS OF ALL ADDITIONAL BENCHMARKS TO BE USED IN CONSTRUCTING THE PROJECT. THE SURVEY SHALL BE SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. SIGNIFICANT INCONSISTENCIES BETWEEN THE FIELD NOTES AND THE CONTROL POINTS AND BENCH MARK ELEVATIONS PROVIDED BY THE ENGINEER SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO ISSUANCE OF THE NOTICE TO PROCEED. PAYMENT SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- 5. THE GEOTECHNICAL INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THIS INFORMATION MAY NOT ACCURATELY REFLECT ACTUAL SOIL CONDITIONS AS TO THE DEPTH, EXTENT OR CHARACTER OF THE MATERIAL TO BE ENCOUNTERED IN CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH EXAMINATION OF THE SITE OF THE WORK AS MAY BE NECESSARY TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING ALL PROPERTY CORNERS AND MONUMENTS SHOWN ON THE DRAWINGS OR FOUND DURING CONSTRUCTION. IF A PROPERTY CORNER OR MONUMENT IS DESTROYED OR DISTURBED, THE CONTRACTOR WILL HAVE IT REPLACED AND CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. ALL COSTS FOR PRESERVING, REPLACING AND CERTIFYING PROPERTY CORNERS AND MONUMENTS WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- 7. ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND:

FDEP, BUREAU OF SURVEY AND MAPPING, MS 100
3900 COMMONWEALTH BLVD.
TALLAHASSEE, FLORIDA 32399
850-245-2555 (OFFICE)
850-245-2572 (FAX)
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE. THE FOLLOWING UTILITIES SHOULD BE CONTACTED FOR INFORMATION CONCERNING TYPE AND LOCATION OF THEIR FACILITIES. THE LIST MAY NOT INCLUDE ALL UTILITIES IN THE AREA.

SUNSHINE STATE ONE-CALL OF FLORIDA
811 OR 800-432-4770 (5 DAYS NOTIFICATION PRIOR TO CONSTRUCTION)
CITY OF TALLAHASSEE/ELECTRICAL UTILITY 850-891-5091
CITY OF TALLAHASSEE/GAS UTILITY 850-891-5100
CITY OF TALLAHASSEE/WATER UTILITY 850-891-6107
CITY OF TALLAHASSEE/SEWER UTILITY 850-891-6107
COMCAST (CABLE TELEVISION) 850-574-4060
CENTURYLINK (TELEPHONE) 850-599-1502
AT&T (COMMUNICATIONS) 850-242-9087
SOUTHERN LIGHT (COMMUNICATIONS) 251-662-1170

- 9. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR SHALL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND SHALL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. IN THE CASE OF A WATER MAIN SHUT DOWN, A MINIMUM 24-HOUR NOTICE ALSO SHALL BE PROVIDED TO THE TALLAHASSEE FIRE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
- 10. THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY (850-891-5100) A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION IN THE VICINITY OF GAS MAINS, AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES. A GAS DEPARTMENT INSPECTOR WILL BE ON SITE WHEN WORK ACTIVITIES TAKE PLACE NEAR GAS MAINS. A MINIMUM OF 72 HOURS NOTICE SHALL BE PROVIDED FOR ANY REQUEST FOR GAS MAIN EXPOSURE OR ADJUSTMENT.
- 11. ALL UTILITIES IN CONFLICT WITH CONSTRUCTION ARE TO BE ADJUSTED OR RELOCATED BY OTHERS UNLESS NOTED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- 12. WHERE THE REQUIRED MINIMUM SEPARATION BETWEEN UTILITIES IS SPECIFIED, THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- 13. LIMITS OF CONSTRUCTION ARE DEFINED IN THE PLANS AND CONSIST OF ROADWAY RIGHTS-OF-WAY, CITY OF TALLAHASSEE PROPERTIES, DRAINAGE RIGHTS-OF-WAY, PERMANENT DRAINAGE AND/OR UTILITY EASEMENTS, AND TEMPORARY CONSTRUCTION EASEMENTS.
- 14. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
- 15. ALL EXISTING DRAINAGE STRUCTURES AND PIPES, PAVEMENT, SIDEWALKS, CURBS, ETC., WITHIN THE LIMITS OF CONSTRUCTION ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER. ALL DRAINAGE STRUCTURES, PIPES, PAVEMENT, SIDEWALKS, CURBS, ETC., THAT ARE TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND IF DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITH THE SAME TYPE AND MATERIAL AT NO COST TO THE CITY.
- 16. ALL STORM MANHOLES OR STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE REMOVED TO A MINIMUM OF THREE FEET BELOW GRADE AND FILLED WITH COMPACTED SAND.
- 17. EXISTING CONCRETE AND ASPHALTIC CONCRETE DRIVEWAYS AND SIDEWALKS SHALL BE SAW-CUT AS REQUIRED FOR CONSTRUCTION.
- 18. ALL SIDEWALKS AND CURB RAMPS REMOVED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO MEET CURRENT ADA STANDARDS.
- 19. THE CONTRACTOR SHALL PUT FORTH EVERY REASONABLE EFFORT TO MINIMIZE DISRUPTION AND DISTURBANCE OF ADJACENT PROPERTIES. ACCESS BY PROPERTY OWNERS AND RESIDENTS TO THEIR PROPERTY SHALL BE MAINTAINED AT ALL TIMES, AND ANY BARRICADING OF ACCESS MUST BE COORDINATED WITH THE AFFECTED PROPERTY OWNERS AND RESIDENTS.
- 20. ALL FENCES IN CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND REPLACED IN THEIR ORIGINAL LOCATIONS OR IN OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR MAY, AT HIS OPTION, USE NEW FENCING MATERIAL OF THE SAME TYPE THAT WAS REMOVED OR REUSE THE FENCING MATERIAL THAT WAS REMOVED IF IT IS UNDAMAGED BY CONSTRUCTION ACTIVITIES. ALL FENCES DAMAGED BY CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH NEW FENCING MATERIAL OF THE SAME TYPE THAT WAS REMOVED.
- 21. THE CONTRACTOR SHALL EXERCISE DUE CARE IN THE REMOVAL OF EXISTING FENCES TO MAINTAIN SECURITY AT THE AFFECTED PROPERTIES AND TO ENSURE THE SAFETY OF PETS, ANIMALS AND CHILDREN. IF IN THE OPINION OF THE ENGINEER, REMOVAL OF A FENCE WILL RESULT IN AN UNACCEPTABLE REDUCTION IN SECURITY OR SAFETY, THE CONTRACTOR SHALL INSTALL A TEMPORARY FENCE AS DIRECTED BY THE ENGINEER

- PRIOR TO REMOVAL OF THE EXISTING FENCE. THE TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL THE PERMANENT FENCE IS INSTALLED.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES AND LANDSCAPING ON ADJACENT PROPERTIES, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION THAT ARE NOT IDENTIFIED ON THE PLANS TO BE REMOVED SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE PROTECTION BARRICADES SHALL BE INSTALLED AND MAINTAINED AROUND ALL TREES THAT ARE TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- 23. THE CONTRACTOR SHALL NOT DISTURB GRASSING OR LANDSCAPING OUTSIDE CONSTRUCTION WORK ZONES. THE CONTRACTOR SHALL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION OUTSIDE CONSTRUCTION WORK ZONES AND SHALL RESTORE AT NO COST TO THE CITY ANY AREAS THAT ARE DAMAGED INCLUDING AREAS WITHIN THE LIMITS OF CONSTRUCTION OR ON ADJACENT PROPERTIES USING, TO THE EXTENT PRACTICABLE, THE SAME TYPES AND SIZES OF PLANT MATERIAL THAT EXISTED PRIOR TO CONSTRUCTION.
- 24. THE LOCATION AND CONSTRUCTION OF MAILBOXES SHALL BE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE. WHEN A MAILBOX IN CONFLICT WITH CONSTRUCTION IS REMOVED, THE CONTRACTOR SHALL FURNISH AND INSTALL A TEMPORARY MAILBOX AND SHALL MAINTAIN THE TEMPORARY MAILBOX UNTIL A NEW MAILBOX IS INSTALLED. THE CONTRACTOR SHALL CONSTRUCT A NEW MAILBOX TO MATCH, AS CLOSE AS PRACTICABLE, THE LOCATION, TYPE, SIZE, MATERIAL, AND COLOR OF THE ORIGINAL MAILBOX. IN LIEU OF CONSTRUCTING A NEW MAILBOX, THE EXISTING MAILBOX MAY BE REUSED IF IT MEETS THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE AND IS FUNCTIONALLY SOUND.
- 25. DISTURBED AREAS SHALL BE COMPACTED (AT A MINIMUM) EQUAL TO ADJACENT UNDISTURBED GROUND EXCEPT WHEN OTHERWISE SPECIFIED.
- 26. PROPERTIES ADJACENT TO WORK ZONES SHALL BE GRADED TO DRAIN WITHIN THE LIMITS OF CONSTRUCTION.
- 27. ALL DISTURBED AREAS WITHIN CONSTRUCTION WORK ZONES ARE TO BE GRASSED EXCEPT FOR AREAS THAT ARE LANDSCAPED, PAVED, OR BELOW NORMAL WATER LEVEL. EXISTING GRASSED AREAS SHALL BE REPLANTED WITH SOD OF THE SAME GRASS TYPE AS EXISTING, UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. CENTIPEDE SOD WILL BE USED FOR DISTURBED AREAS NOT CURRENTLY GRASSED. REINFORCEMENT MAT SHALL BE INSTALLED BENEATH SOD PLACED ON SLOPES OF 2H:1V OR STEEPER, AND THE SOD SHALL BE STAPLED. COSTS FOR REINFORCEMENT MAT, STAPLING, FERTILIZING, AND WATERING SHALL BE INCLUDED IN THE UNIT PRICE OF THE PAY ITEM FOR PERFORMANCE TURF.
- 28. PRIOR TO REQUESTING A FINAL INSPECTION, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOUR COMPLETE SETS OF CERTIFIED AS-BUILT RECORD DRAWINGS AND TWO COPIES OF THE DIGITAL FILES ON CD-ROM DISKS.

SUPPLEMENTAL GENERAL NOTES:

- 1. CITY OF TALLAHASSEE SURVEYING PROVIDED THE TOPOGRAPHY, BENCHMARKS, RIGHTS-OF-WAY AND UTILITY LOCATION INFORMATION SHOWN ON THE CONSTRUCTION DRAWINGS. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 2. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL VALVE BOXES ON GAS AND WATER MAINS WITHIN THE LIMITS OF CONSTRUCTION THAT ARE TO REMAIN IN SERVICE. PRIOR TO COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES WITHIN CONSTRUCTION AREAS SO THE TOPS ARE FLUSH WITH FINISHED PAVEMENT OR WITH FINISHED GRADE IN UNPAVED AREAS.
- 3. ALL PUMPS USED FOR DEWATERING AND BYPASS PUMPING WILL BE SCREENED FROM RESIDENTIAL VIEW AND ENCLOSED TO REDUCE NOISE DURING OPERATION. AT NO TIME SHALL PUMPS BE PLACED WITHIN A RESIDENTIAL YARD OR 50 FEET OF A HOME WITHOUT APPROVAL FROM THE CITY. PAYMENT FOR SCREENING AND ENCLOSURE SHALL BE INCLUDED IN THE COST FOR CLEARING AND GRUBBING.

SUPPLEMENTAL GENERAL NOTES - STORMWATER CONSTRUCTION:

- 1. ALL NEW OR REPLACEMENT STORM DRAINS OR CULVERTS SHALL BE CLASS III STEEL REINFORCED CONCRETE PIPE IN ACCORDANCE WITH STANDARD SPECIFICATION 449-4 OR FDOT APPROVED POLYPROPYLENE PIPE UNLESS NOTED OTHERWISE ON THE DRAWINGS. WHEN THE PLANS DESIGNATE A TYPE OF PIPE, THE CONTRACTOR MAY USE ONLY THE TYPE

- DESIGNATED. THE CONTRACTOR SHALL NOT USE A TYPE OF PIPE NOT DESIGNATED ON THE DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE OF DRAINAGE STRUCTURE.
- 2. ALL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING SELECT BEDDING MATERIAL TO PROVIDE A FOUR-INCH MINIMUM DEPTH FOUNDATION BENEATH THE BARREL OF THE PIPE AND FOR BACKFILL UP TO THE SPRINGLINE (CENTER) OF THE PIPE. BACKFILL AROUND POLYPROPYLENE PIPE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- 3. ALL JOINTS OF CONCRETE PIPES, CULVERTS, AND STORM SEWERS SHALL HAVE A FILTER FABRIC JACKET AS DETAILED ON STANDARD INDEX NO. 280, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- 4. ALL PIPE CULVERTS AND STORM SEWERS 48-INCHES OR LESS IN DIAMETER SHALL BE VIDEO TAPED IN ACCORDANCE WITH SECTION 430-4.8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 5. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS UNLESS OTHERWISE SHOWN ON THE PLANS.
- 6. ALL STORM DRAIN COVERS SHALL BE TYPE USF TJ (U.S. FOUNDRY NO. 8017195), NPR15-728 (E) GROUP COVER NO. 3062A2), OR APPROVED EQUAL.
- 7. ALL TYPE J STRUCTURE BOTTOMS SHALL HAVE A MINIMUM 6'-0" WALL HEIGHT WHEN POSSIBLE.
- 8. ALL GRATES SHALL BE CHAINED AND LOCKED IN ACCORDANCE WITH STANDARD INDEX NO. 201. COST OF EYEBOLTS AND CHAIN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STRUCTURES.
- 9. UTILITIES IN CONFLICT WITH THE INSTALLATION OF A NEW STORM DRAIN ARE TO BE ADJUSTED OR RELOCATED TO ELIMINATE THE CONFLICT. IF THE CONFLICT CANNOT BE REASONABLY AVOIDED, A CONFLICT STRUCTURE WITH ACCESS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD INDEX NO. 307 WITH THE EXCEPTION THAT FOR UTILITY CONFLICT CONDITION II (PRESSURE OR FLUID CARRIER INSTALLATIONS), A CARRIER PIPE IS NOT REQUIRED IF DUCTILE IRON PIPE IS USED FOR THE UTILITY AND NO PIPE JOINTS ARE LOCATED WITHIN THE CONFLICT STRUCTURE. "NOTCHING" OF A STORM DRAIN PIPE OR STRUCTURE TO ACCOMMODATE A UTILITY SHALL NOT BE ALLOWED. NO UTILITY SHALL BE INSTALLED THROUGH ANY PORTION OF A STORM DRAIN PIPE WITHOUT A CONFLICT STRUCTURE.

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GENERAL PAY ITEM NOTES:

1. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. THE COSTS FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICES FOR ALL ITEMS .
2. NO SEPARATE PAYMENT WILL BE MADE FOR FILTER FABRIC. THE COSTS FOR FILTER FABRIC SHALL BE INCLUDED IN THE UNIT PRICES FOR ALL ITEMS REQUIRING FILTER FABRIC.
3. NO SEPARATE PAYMENT WILL BE MADE FOR VIDEO TAPING PIPE CULVERTS. THE COSTS FOR VIDEO TAPING ARE INCLUDED IN THE UNIT PRICES FOR PIPE CULVERT.
4. UNIT PRICES FOR PIPES, CULVERTS, SEWER PIPE AND WATER MAIN INCLUDE THE COSTS FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVAL OF 1.5 INCH MINIMUM THICKNESS OF ASPHALT PAVEMENT MILLINGS OR FINE TYPE SP ASPHALTIC CONCRETE AT THE GROUND SURFACE OF ALL PIPE AND BOX CULVERT TRENCHES IN PAVED AREAS FOR THE PURPOSE OF SEDIMENT AND EROSION CONTROL UNTIL THE FINAL PAVEMENT IS PLACED.

STORMWATER PAY ITEM NOTES:

101-1: MOBILIZATION
 THE UNIT PRICE ALSO INCLUDES ALL COSTS FOR PREPARATION OF AN APPROVED CONSTRUCTION PROGRESS SCHEDULE, AN APPROVED EROSION CONTROL PLAN, AN APPROVED TRAFFIC CONTROL PLAN, THE PRECONSTRUCTION SURVEY, PREPARING AND SUBMITTING APPROVED SHOP DRAWINGS, AND FURNISHING, INSTALLING, AND REMOVING THE PROJECT SIGNS. INCLUDES THE COST OF ARBORIST MITIGATION AS DETAILED IN THE PLANS (SEE TREE PROTECTION AND EROSION CONTROL SHEETS).

102-1: MAINTENANCE OF TRAFFIC
 THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS REQUIRED TO IMPLEMENT THE APPROVED TRAFFIC CONTROL PLAN TO SAFELY MAINTAIN TRAFFIC AROUND OR THROUGH THE WORK ZONE (DURING ALL WEATHER CONDITIONS) FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL PROVIDE ADEQUATE WET WEATHER DRIVING SURFACES FOR THE DURATION OF THE PROJECT AND DUST CONTROL AS NEEDED AT ALL OTHER TIMES. THE UNIT PRICE INCLUDES ALL LABOR AND MATERIALS NOT INCLUDED FOR PAYMENT UNDER OTHER RELATED PAY ITEMS, INCLUDING BUT NOT LIMITED TO WARNING AND REGULATORY SIGNS, MESSAGE BOARDS, DRUMS, BARRICADES, CHANNELIZING DEVICES, TEMPORARY CONCRETE BARRIER, WARNING LIGHTS, FLAGGERS, BUSINESS ENTRANCE SIGNS, MAINTENANCE OF EXISTING DRIVEWAYS, TEMPORARY PAVEMENT, MILLINGS, DUST CONTROL, GRAVEL OR OTHER TEMPORARY MEASURES REQUIRED DURING WET WEATHER, AND REMOVAL AND REINSTALLATION OF EXISTING SIGNS IN CONFLICT WITH CONSTRUCTION AS DIRECTED BY THE ENGINEER. NO ADJUSTMENTS WILL BE MADE TO THE CONTRACT PRICE FOR INCREASES IN CONTRACT TIME.

104-14: PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION
 THIS ITEM INCLUDES THE COST OF FURNISHING, INSTALLING AND MAINTAINING SILT FENCE, SOIL TRACKING PREVENTION DEVICES, SEDIMENT BARRIERS, INLET PROTECTION, AND ALL OTHER MEASURES NECESSARY FOR THE PREVENTION, CONTROL, AND ABATEMENT OF EROSION, WATER POLLUTION, AND THE TRANSPORT OF ERODED MATERIALS OFF SITE FOR THE ENTIRE DURATION OF ALL WORK ACTIVITIES.

110-1-1: CLEARING AND GRUBBING
 THE UNIT PRICE SHALL INCLUDE REMOVAL AND DISPOSAL OF ALL TREES, PIPES, INLETS, MANHOLES, CURBS, ASPHALT, ROADWAY BASE, CONCRETE, SANITARY SEWER PIPES AND STRUCTURES, AND ALL OTHER FEATURES AND OBSTRUCTIONS NECESSARY TO BE REMOVED/DISPOSED AS NEEDED TO CONSTRUCT THE PROPOSED IMPROVEMENTS FOR WHICH OTHER ITEMS OF THE CONTRACT DO NOT SPECIFY THE REMOVAL THEREOF. PARTIAL PAYMENTS WILL BE BASED UPON THE ESTIMATED TOTAL VALUE OF WORK COMPLETED TO THE DATE OF THE ESTIMATE AS DETERMINED BY THE ENGINEER. ALL PARTIAL ESTIMATES AND PAYMENTS ARE SUBJECT TO CORRECTION IN SUBSEQUENT ESTIMATES AND PAYMENT. UNIT PRICE INCLUDES SELECTIVE CLEARING AT 209 EAST FOREST DRIVE AS SHOWN IN THE PLANS.

110-7-1: MAILBOX
 UNIT PRICE SHALL INCLUDE ALL COSTS TO MEET THE REQUIREMENTS OF THE GENERAL NOTES ON SHEET 3 (GENERAL NOTE 24) OF THE PLANS.

120-1 AND 120-6: REGULAR EXCAVATION AND EMBANKMENT
 FINAL PAY QUANTITY WILL BE PLAN QUANTITY WITH NO CONSIDERATION FOR SPECIFICATION TOLERANCES.

334-1-12: SUPERPAVE ASPHALTIC CONCRETE (2" THICK)
 THE UNIT PRICE INCLUDES THE ADJUSTMENT OF ALL EXISTING UTILITY FRAMES AND COVERS AND ALL WATER AND GAS VALVES WITHIN THE LIMITS OF CONSTRUCTION.

425-1-521, 425-1-523, 425-1-541, 425-1-553: INLETS
 THE UNIT PRICE SHALL INCLUDE COST OF ALL MODIFIED TRAVERSABLE AND MODIFIED NON-TRAVERSABLE SLOTS.

425-11: MODIFY EXISTING DRAINAGE STRUCTURE (S-222)
 THE UNIT PRICE SHALL INCLUDE ALL COSTS TO CONNECT 48" RCP TO S-222.

430-175-118: PIPE CULVERT, CONCRETE
 UNIT PRICE SHALL INLCUDE COST OF RECONSTRUCTING EXISTING BERM AND ASPHALT CURB AT THE FLORIDA/NORTH FOREST DRIVE INTERSECTION.

430-175-118, 430-175-124, 430-175-136, 430-175-48, 430-175-230: PIPE CULVERT, CONCRETE
 THE UNIT PRICE INCLUDES ALL EXCAVATION, SHEETING AND/OR SHORING, DEWATERING, FILTER FABRIC, AND FURNISHING, PLACING AND COMPACTING BEDDING AND BACKFILL MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS. UNIT PRICE ALSO INCLUDES COST OF REPLACEMENT OF ADJOINING FENCES IMPACTED BY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL COORDINATE WITH CITY ELECTRIC DEPARTMENT, CITY GAS DEPARTMENT, CITY WATER & SEWER, COMCAST, AND CENTURY LINK, IN THE PROTECTION AN/OR RELOCATION OF THEIR FACILITIES. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE.

430-834-1: CONCRETE COLLARS
 THE UNIT PRICE INCLUDES ALL LABOR AND MATERIALS REQUIRED INSTALL CONCRETE COLLARS FOR JOINING MAINLINE PIPES AND STUB PIPES AND FOR INSTALLING CONCRETE JACKETS FOR CONNECTING NEW PIPES TO EXISTING PIPES. ALL WORK SHALL BE DONE IN ACCORDANCE WITH FDOT INDEX NO. 280.

524-99: SAND CEMENT DITCH LINING
 THE UNIT PRICE INCLUDES COST OF GEOTEXTILE, REBAR, AND OPTIONAL CONCRETE BASE AS SHOWN IN THE DETAILS.

ENGINEER OF RECORD
 LANE P. LUCAS P.E.
 Etlaw, Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53936

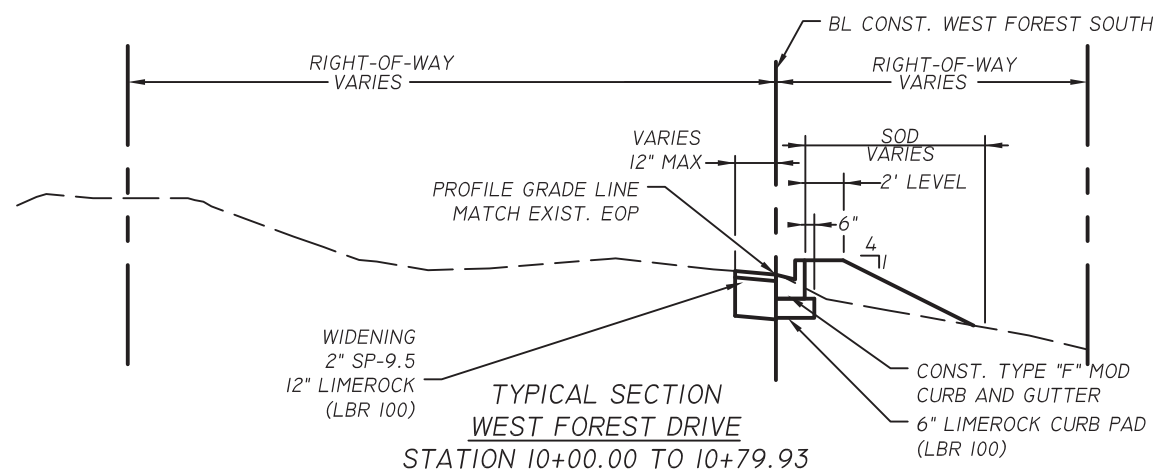
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SHEET
 PAY
 ITEM NOTES

PROJECT
 GLENDALE NEIGHBORHOOD
 DRAINAGE IMPROVEMENTS

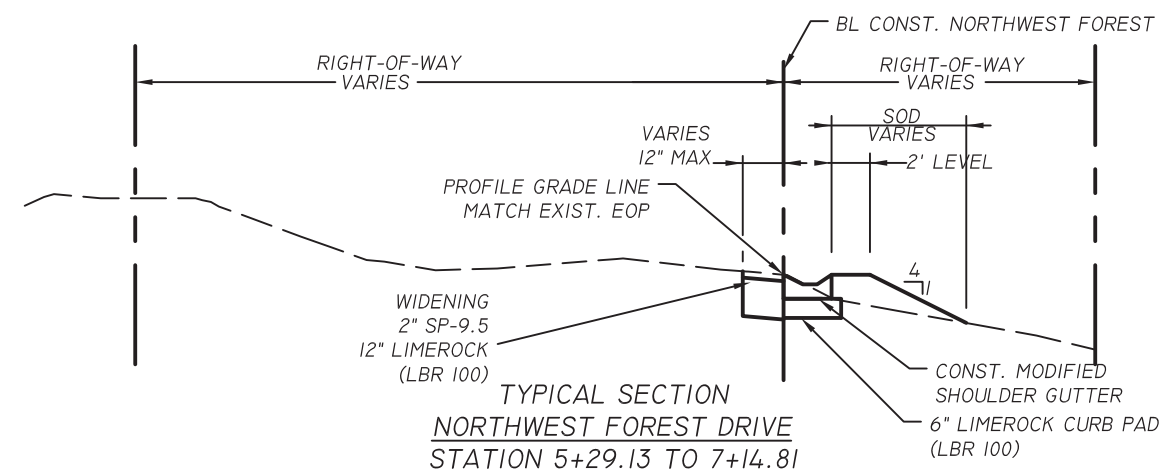
Etlaw, Inc.
 Engineering Utilities, Transportation, and Water
 2822 Remington Green Cir., Suite 202 Phone: (850) 383-0400
 Tallahassee, Florida 32308 www.etlawinc.com
 Certificate of Authorization #9961

JOB NO. _____
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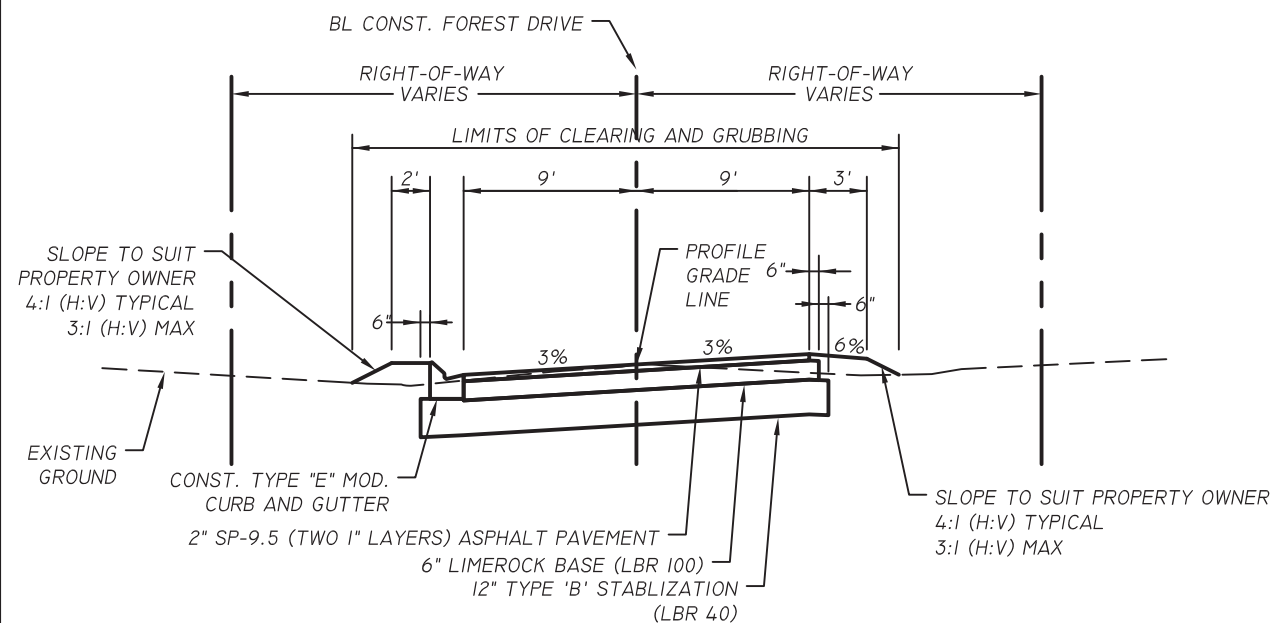
TYPICAL SECTION
WEST FOREST DRIVE
STATION 10+00.00 TO 10+79.93

NOTE: SOD ALL DISTURBED AREAS



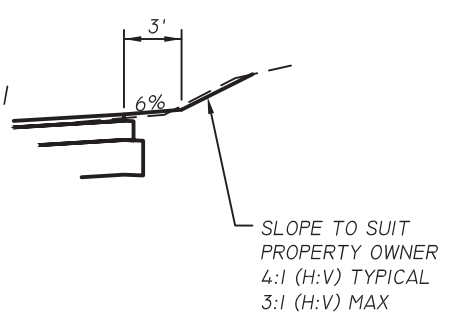
TYPICAL SECTION
NORTHWEST FOREST DRIVE
STATION 5+29.13 TO 7+14.81

NOTE: SOD ALL DISTURBED AREAS

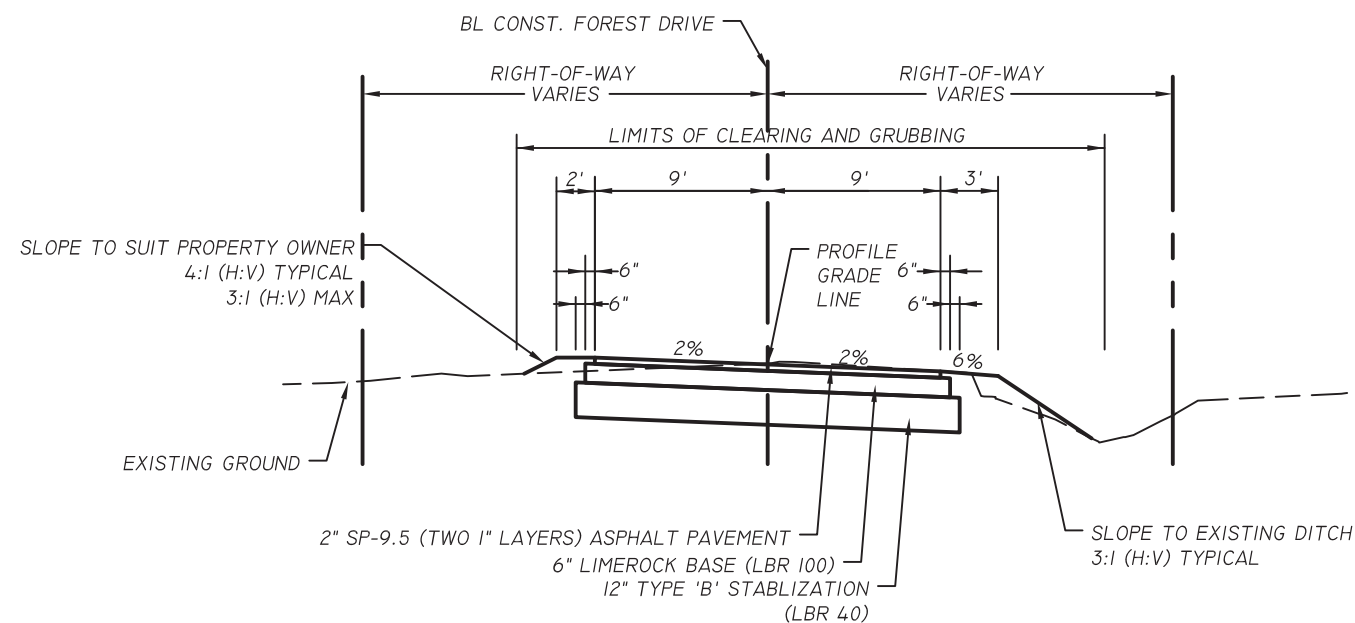


TYPICAL SECTION
NORTH FOREST DRIVE
STATION 27+60.00 TO 31+96.91

NOTE: SOD ALL DISTURBED AREAS

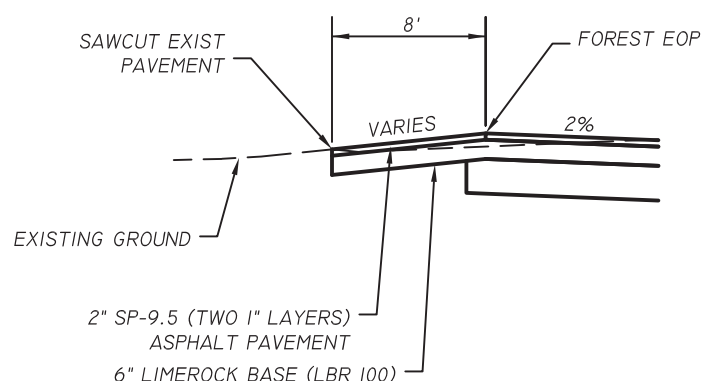


ALTERNATE SHOULDER
FOR CUT SECTIONS

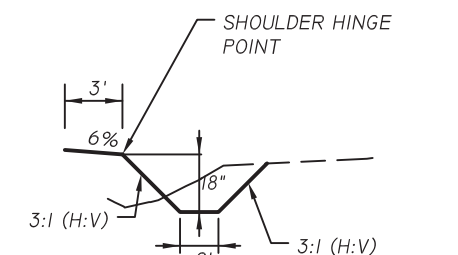


TYPICAL SECTION
NORTH FOREST DRIVE
STATION 31+96.91 TO 35+00.00

NOTE: SOD ALL DISTURBED AREAS



SIDE STREET CONNECTION
STATION 32+20 TO 32+80 LT.
STATION 33+80 TO 34+05 LT.



ALTERNATE
SHOULDER SECTION
STATION 31+80.00 TO 32+20.00

ENGINEER OF RECORD
LANE P. LUCAS P.E.
EITW, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53936

ORIGINAL _____

REVISIONS:

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SHEET _____

TYPICAL SECTIONS
AND DETAILS

PROJECT

GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS

EITW, INC.
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2822 Remington Green Cir., Suite 202
Tallahassee, FL 32308
PHONE: (850) 383-0400
www.eitwinc.com
Certificate of Authorization #9961

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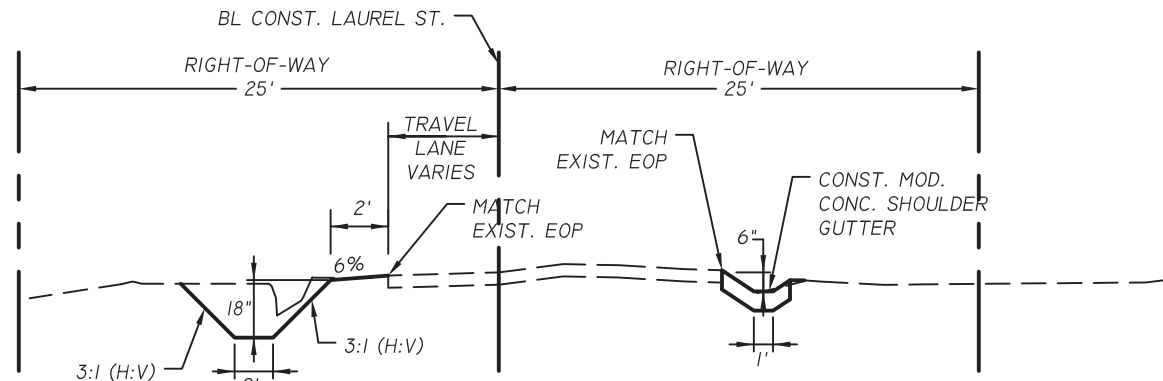
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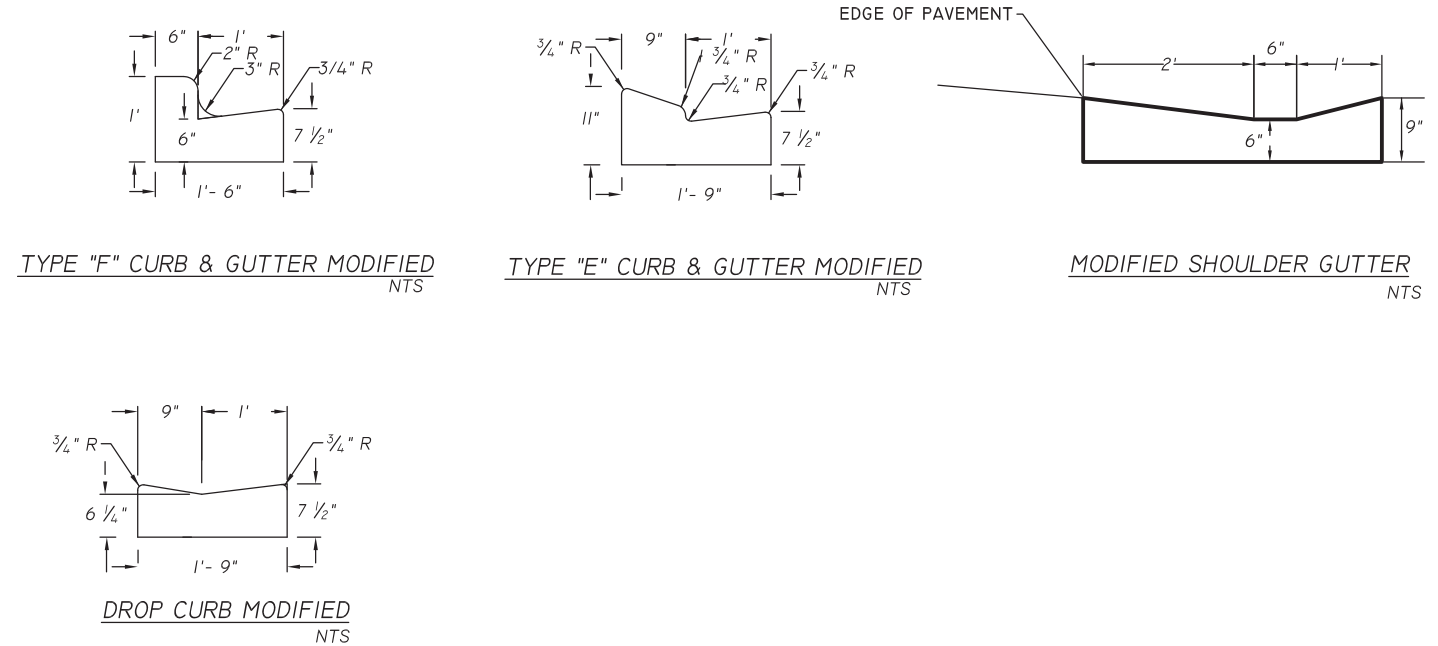


TYPICAL SECTION
LAUREL STREET
STATION 79+00 TO 82+17

NOTES:
* AT 81+40, LT DITCH BOTTOM
WIDTH NARROWS TO 0' (V-BOTTOM).

NOTES:
* RT SHOULDER GUTTER FROM
STA. 79+16.26 TO 79+63.78 ONLY

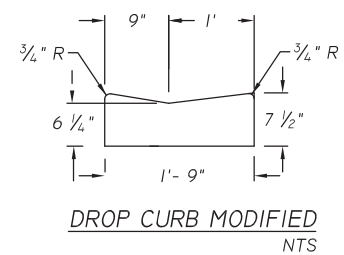
NOTE: SOD ALL DISTURBED AREAS



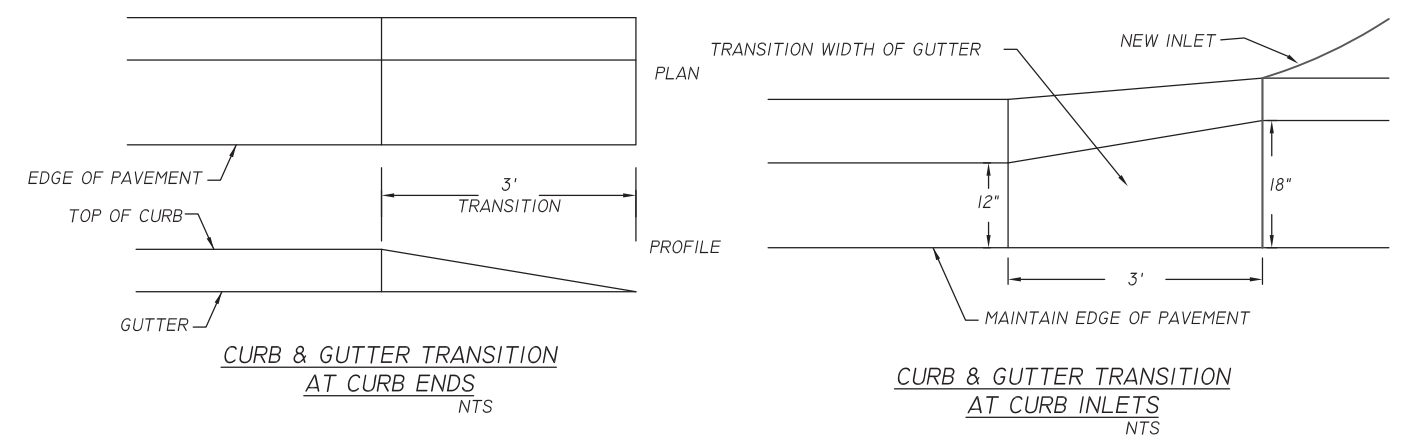
TYPE "F" CURB & GUTTER MODIFIED
NTS

TYPE "E" CURB & GUTTER MODIFIED
NTS

MODIFIED SHOULDER GUTTER
NTS

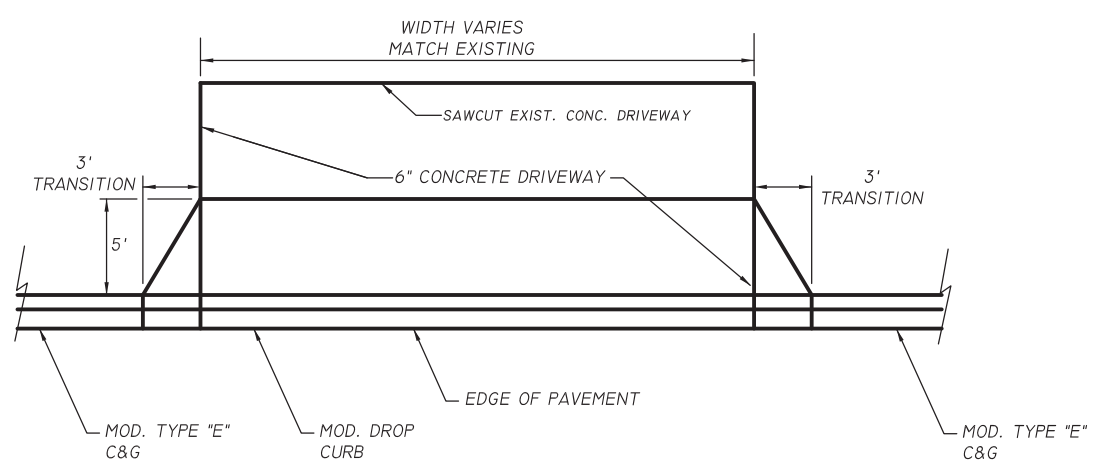


DROP CURB MODIFIED
NTS



CURB & GUTTER TRANSITION
AT CURB ENDS
NTS

CURB & GUTTER TRANSITION
AT CURB INLETS
NTS



CURB & GUTTER TRANSITION
AT DRIVEWAYS
NTS

- NOTES:
1. DRIVEWAYS TO BE RECONSTRUCTED TO MATCH DRIVEWAY GEOMETRY PRIOR TO CONSTRUCTION.
 2. DRIVEWAYS TO BE RECONSTRUCTED OF MATERIALS TO MATCH EXISTING DRIVEWAY.
 3. DRIVEWAY WIDTHS AND DIMENSIONS VARY.
 4. SEE DRIVEWAY PROFILE SHEETS FOR DRIVEWAY GRADES AND TIE-IN LOCATIONS.
 5. SEE INDEX NO. 301 AND 515 FOR ADDITIONAL DETAILS.

ENGINEER OF RECORD
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Eduw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53596

ORIGINAL _____

REVISIONS:

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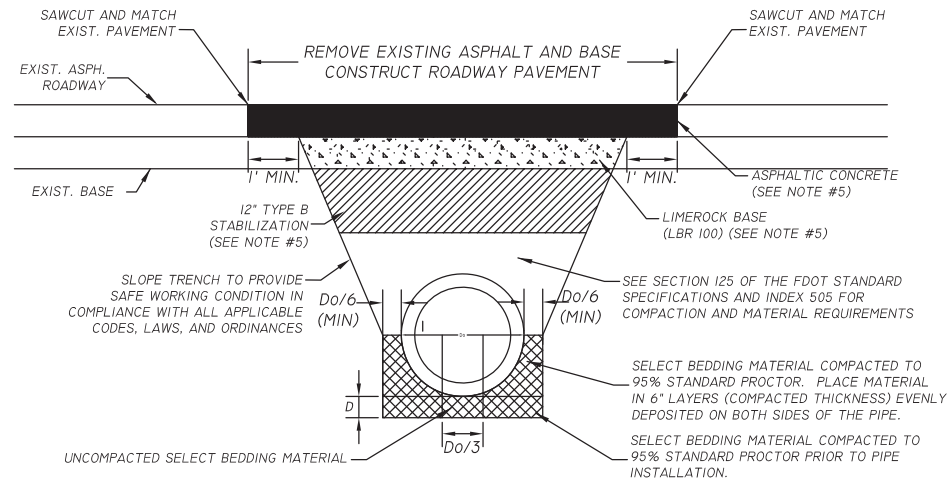
SHEET
TYPICAL SECTIONS
AND DETAILS

PROJECT
GLENDALE NEIGHBORHOOD
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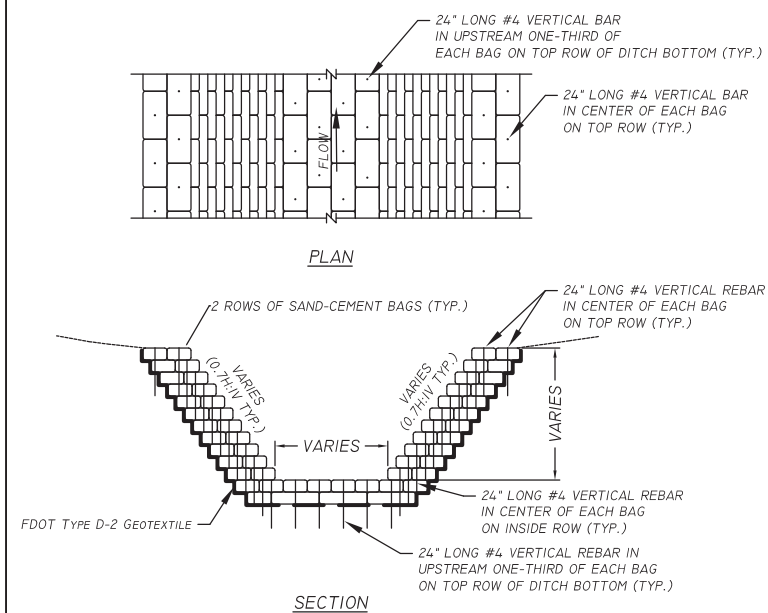
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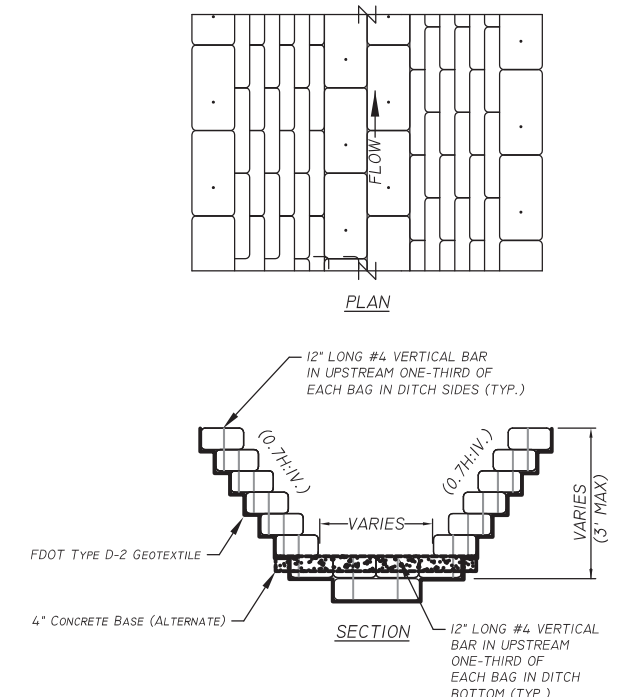
PIPE INSTALLATION AND PAVEMENT PATCH DETAIL FOR LOCAL STREETS

- BACKFILL ABOVE THE SPRINGLINE TO BE PLACED IN LIFTS TO ALLOW COMPACTION TO BE ACHIEVED. LIFTS IN EXCESS OF 12 INCHES, MEASURED LOOSE, SHALL NOT BE ALLOWED.
 - PIPES TO BE INSTALLED IN DRY TRENCHES. OPEN TRENCH PUMPING FOR DEWATERING SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
 - IF TRENCH IS OVEREXCAVATED, BACKFILL AND RECOMPACT TO MATCH SURROUNDING DENSITY PRIOR TO PLACING SELECT BACKFILL AS SHOWN ABOVE.
 - HAND DIG FOR BELL JOINTS. BEARING FROM JOINT TO JOINT WILL NOT BE ALLOWED.
 - PAVEMENT SECTION SHALL INCLUDE:
 - 2" SP-9.5 (FINAL SURFACING)
 - 6" LIMEROCK BASE (LBR 100)
 - 12" STABILIZED SUBGRADE (LBR 40)*
- *AT THE CONTRACTOR'S OPTION, AN ADDITIONAL SIX (6) INCH LIFT OF LIMEROCK BASE MAY BE SUBSTITUTED FOR THE STABILIZED SUBGRADE.



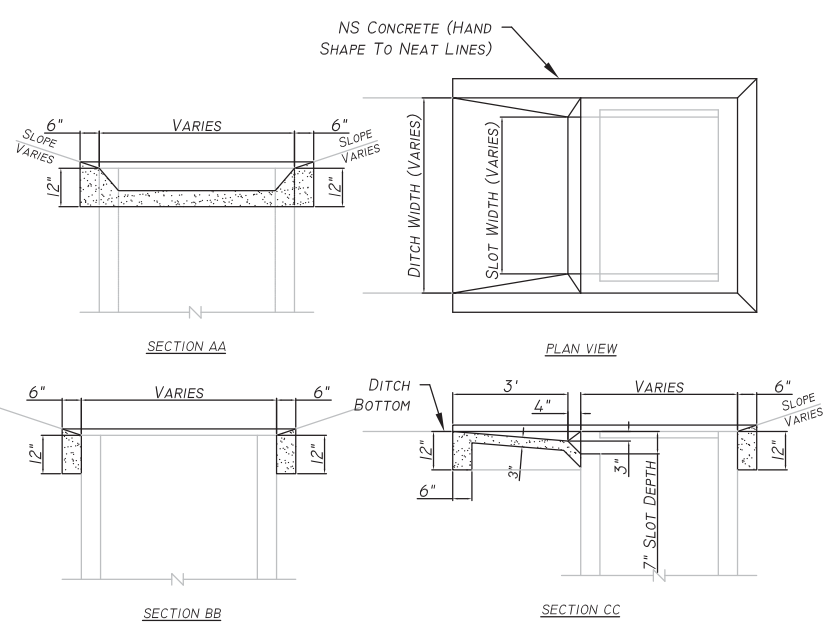
SAND-CEMENT RIPRAP DITCH PAVEMENT
N.T.S.

LAUREL OUTFALL
STATION 0+91 TO 1+55



SAND-CEMENT RIPRAP DITCH PAVEMENT

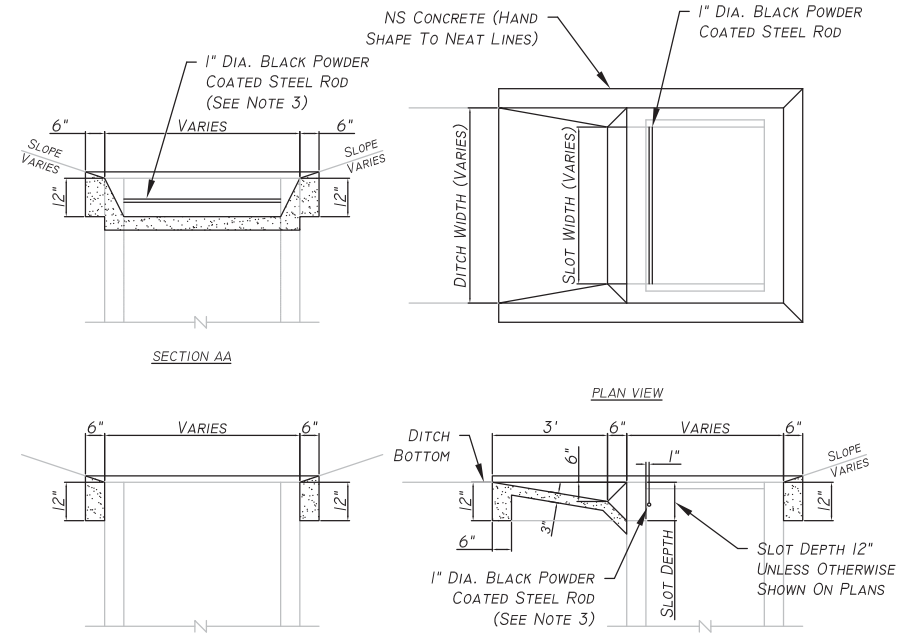
NORTH FOREST ROADSIDE DITCH
STA. 7+63 TO 8+02



MODIFIED TRAVERSABLE SLOT

(TYPE D INLET SHOWN - TYPES C AND E SIMILAR)
N.T.S.

TRAVERSABLE SLOT CONCRETE QUANTITIES		
INLET TYPE	SINGLE SLOT	DOUBLE SLOT
C	0.53 CY	0.74 CY
D	0.63 CY	0.84 CY
E	0.66 CY	0.89 CY



MODIFIED NONTRAVERSABLE SLOT

(TYPE D INLET SHOWN - TYPES C AND E SIMILAR)
N.T.S.

NONTRAVERSABLE SLOT CONCRETE QUANTITIES		
INLET TYPE	SINGLE SLOT	DOUBLE SLOT
C	0.55 CY	0.78 CY
D	0.64 CY	0.89 CY
E	0.67 CY	0.94 CY

- NOTES:
- SLOTS MAY BE CONSTRUCTED ON EITHER OR BOTH ENDS OF INLET AS SHOWN ON THE PLANS.
 - STEEL GRATES ARE TO BE USED ON ALL INLETS WITH TRAVERSABLE AND NON-TRAVERSABLE SLOTS.
 - COST OF SLOTS IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE INLET.
 - BLACK POWDER COATED STEEL ROAD IS TO BE LOCATED VERTICALLY IN CENTER OF OPENING. COST TO FURNISH AND INSTALL ROAD IS TO BE INCLUDED IN THE COST OF THE INLET.
 - QUANTITIES LISTED ARE BASED ON 12" DEEP SLOT AND ARE PROVIDED FOR INFORMATION ONLY.

User: Lane S:\Projects\DOT Stormwater\Glendale\dwg\TYPICALS.dwg 12/10/2018 12:31:36 PM

ENGINEER OF RECORD
LANE P. LUCAS P.E.
Eduw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53596

ORIGINAL _____

REVISIONS:

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SHEET _____

PROJECT
GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

TYPICAL SECTIONS AND DETAILS

ENGINEERING UTILITIES, TRANSPORTATION, AND WATER
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Tallahassee, FL 32308
www.eduwinc.com
PHONE: (850) 383-0400
Certificate of Authorization #9961

JOB NO. _____

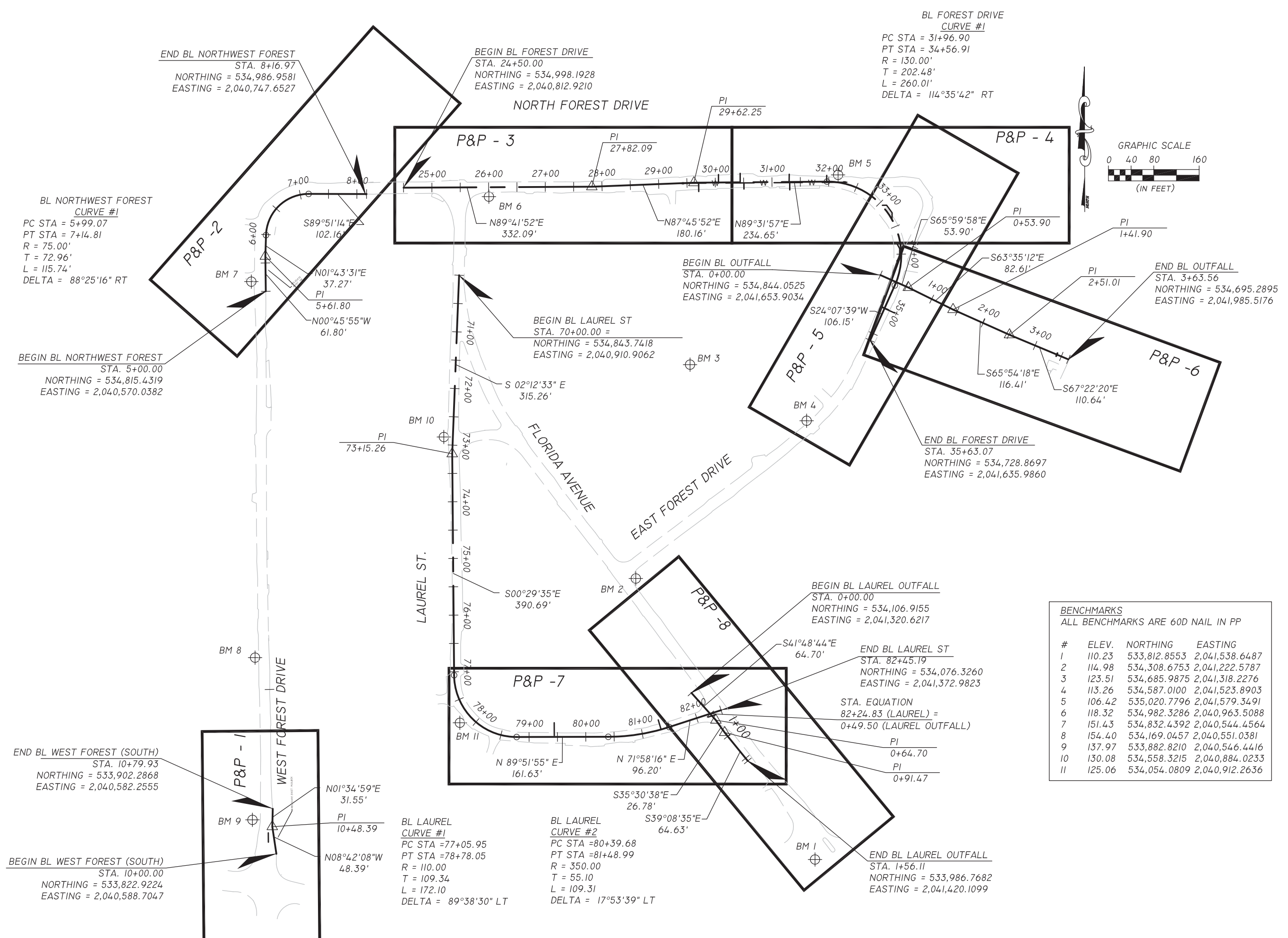
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BENCHMARKS
ALL BENCHMARKS ARE 60D NAIL IN PP

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2	114.98	534,308.6753	2,041,222.5787
3	123.51	534,685.9875	2,041,318.2276
4	113.26	534,587.0100	2,041,523.8903
5	106.42	535,020.7796	2,041,579.3491
6	118.32	534,982.3286	2,040,963.5088
7	151.43	534,832.4392	2,040,544.4564
8	154.40	534,169.0457	2,040,551.0381
9	137.97	533,882.8210	2,040,546.4416
10	130.08	534,558.3215	2,040,884.0233
11	125.06	534,054.0809	2,040,912.2636

ENGINEER OF RECORD
LANE P. LUCAS P.E.
Eutaw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53596

DATE: _____

PROJECT: GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

SHEET: PROJECT LAYOUT PLAN

REVISIONS:

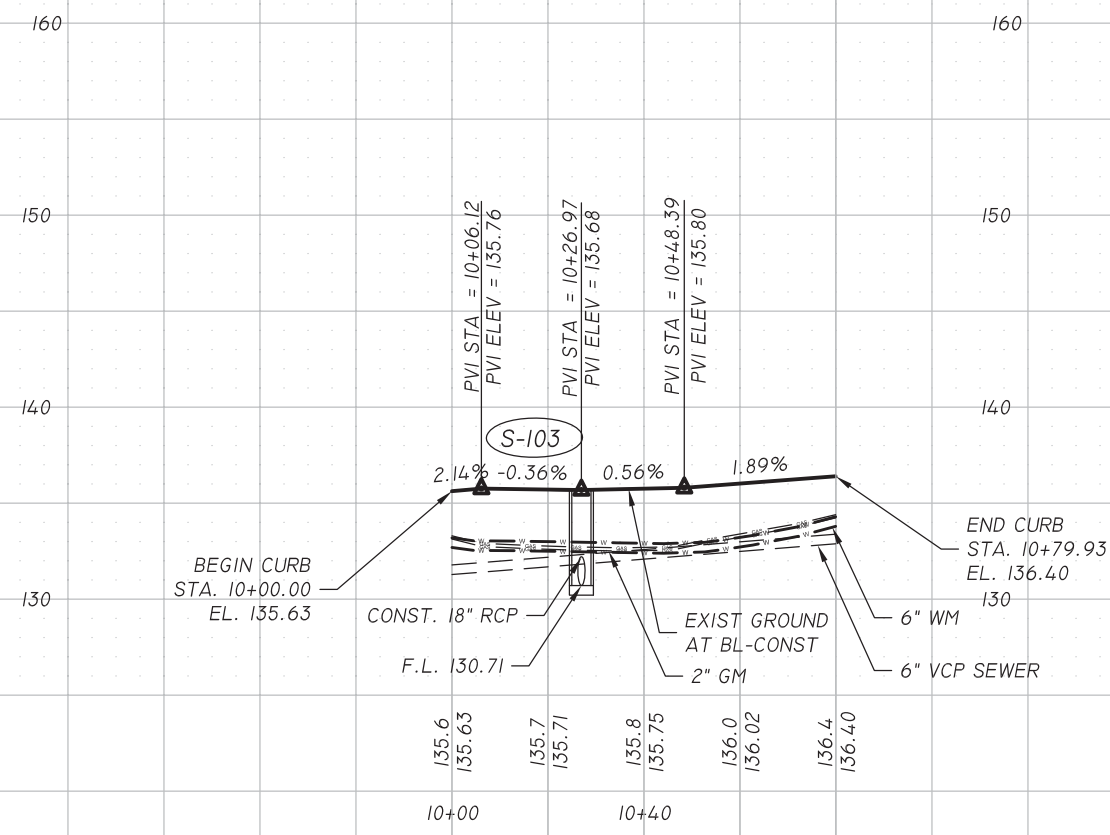
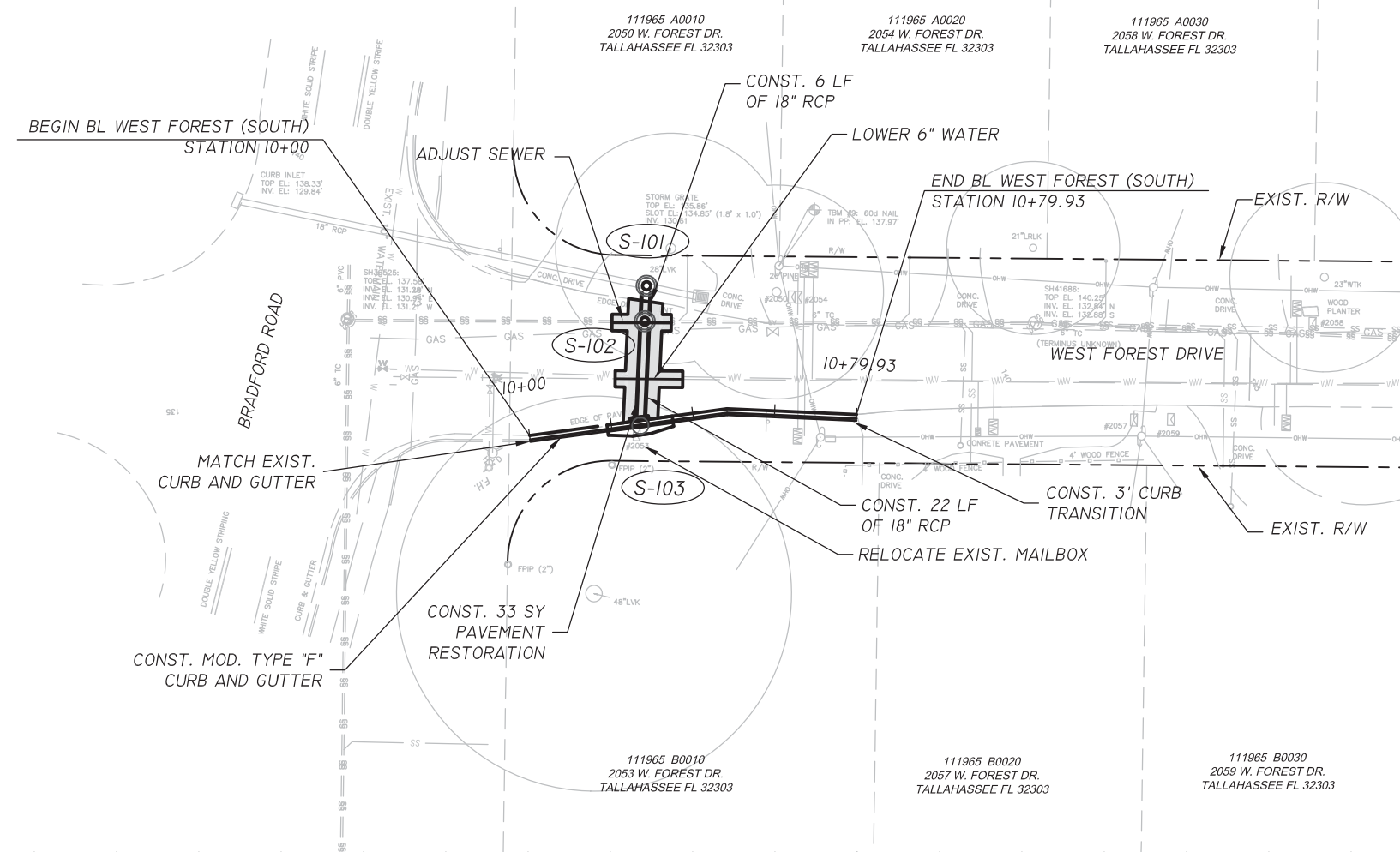
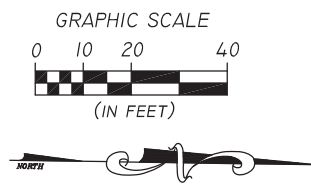
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EUTAW, INC.
Engineering Utilities, Transportation, and Water
2822 Remington Green Cir., Suite 202
Tallahassee, FL 32308
PHONE: (850) 383-0400
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8

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SCALE:
1" = 40' HORIZ.
1" = 10' VERT.

ENGINEER OF RECORD
LANE P. LUCAS, P.E.
Eduw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53936

ORIGINAL REVISIONS:

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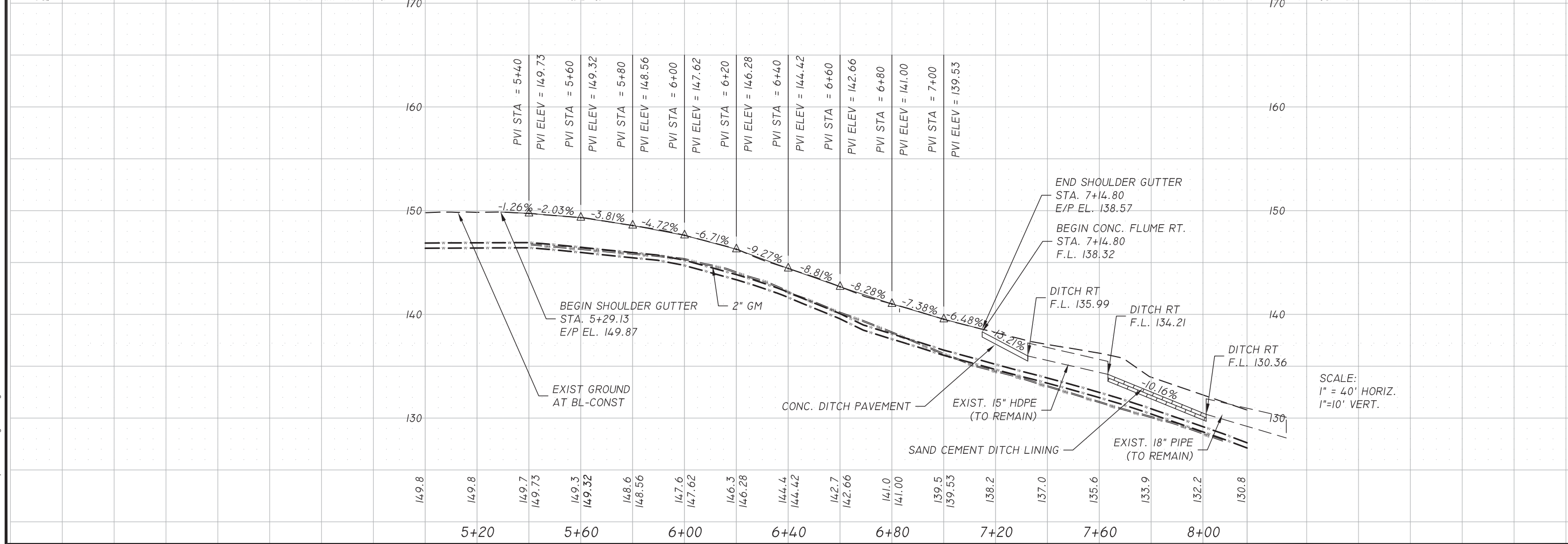
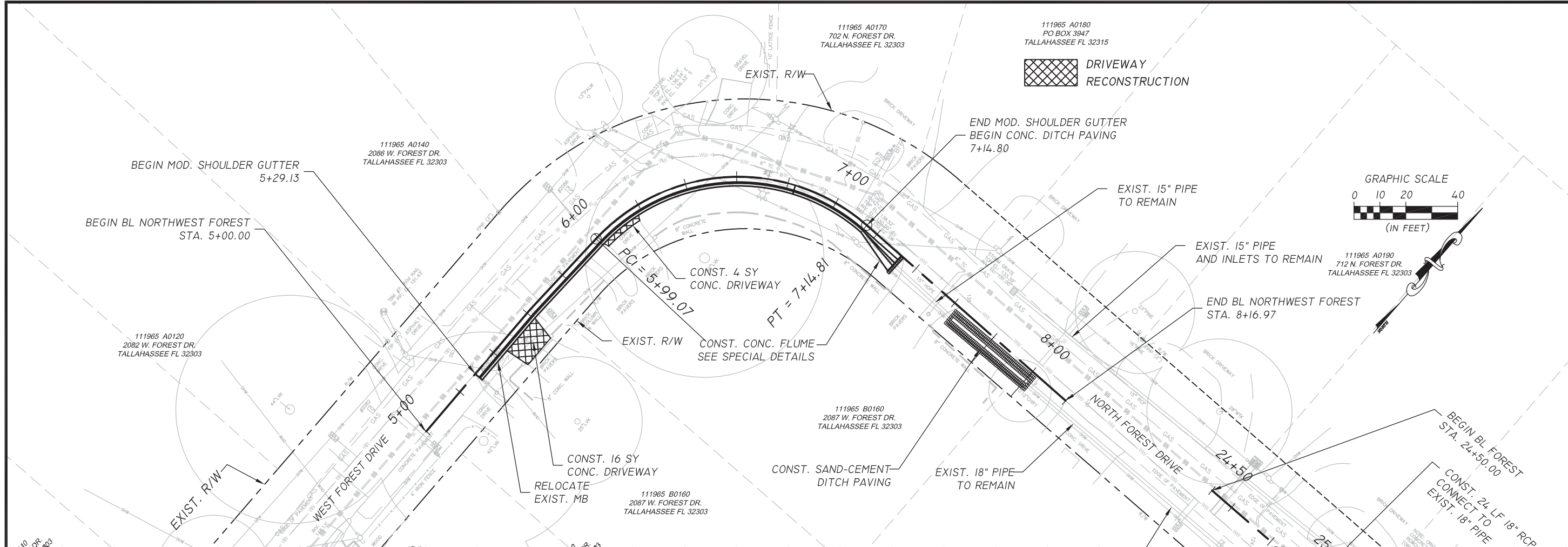
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PLAN & PROFILE

PROJECT
GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS

Eduw, Inc.
Engineering Utilities, Transportation, and Water
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Tallahassee, FLORIDA 32308
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ENGINEER OF RECORD
 LANE P. LUCAS P.E.
 Eutaw, Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53936

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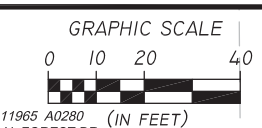
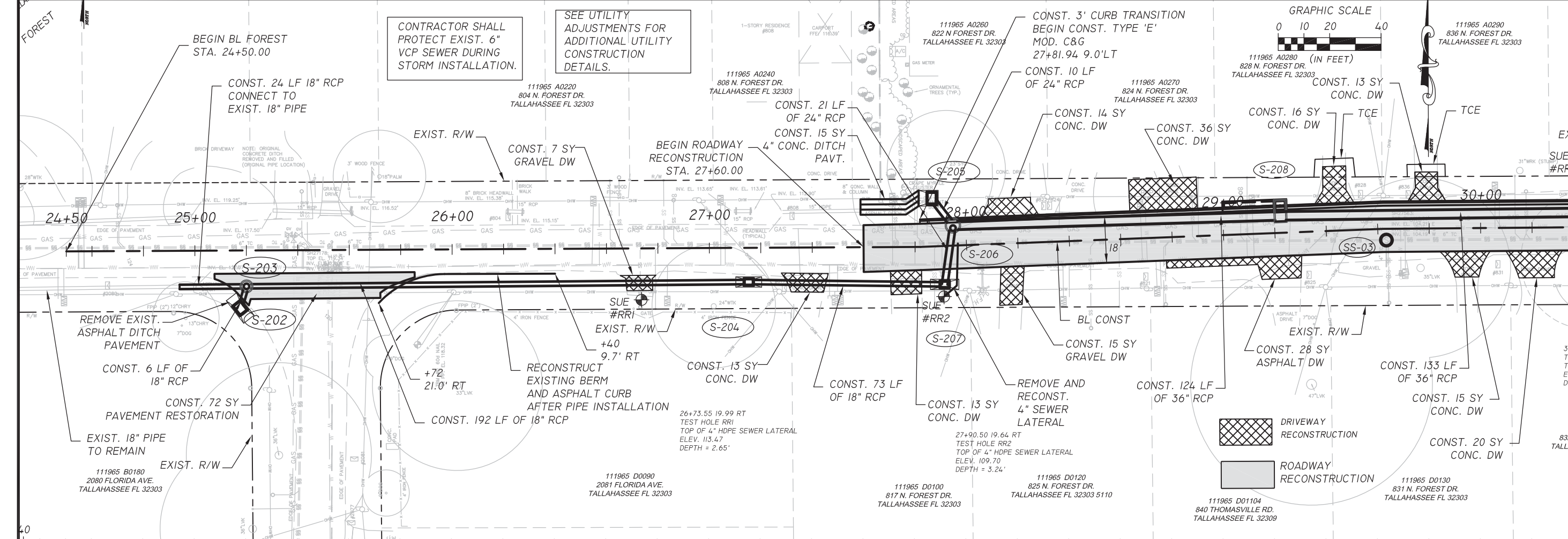
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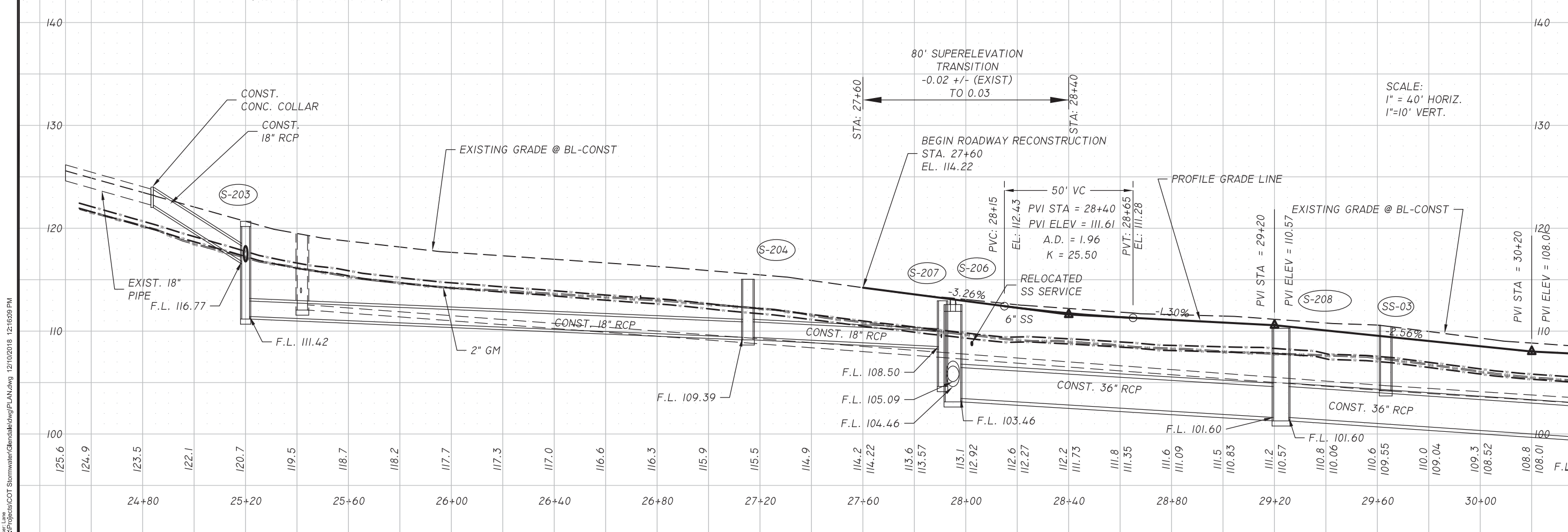


ENGINEER OF RECORD
 LANE P. LUCAS P.E.
 EITW, Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53936

ORIGINAL REVISIONS:

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 PROJECT
GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS
 PLAN & PROFILE



SCALE:
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 1" = 10' VERT.

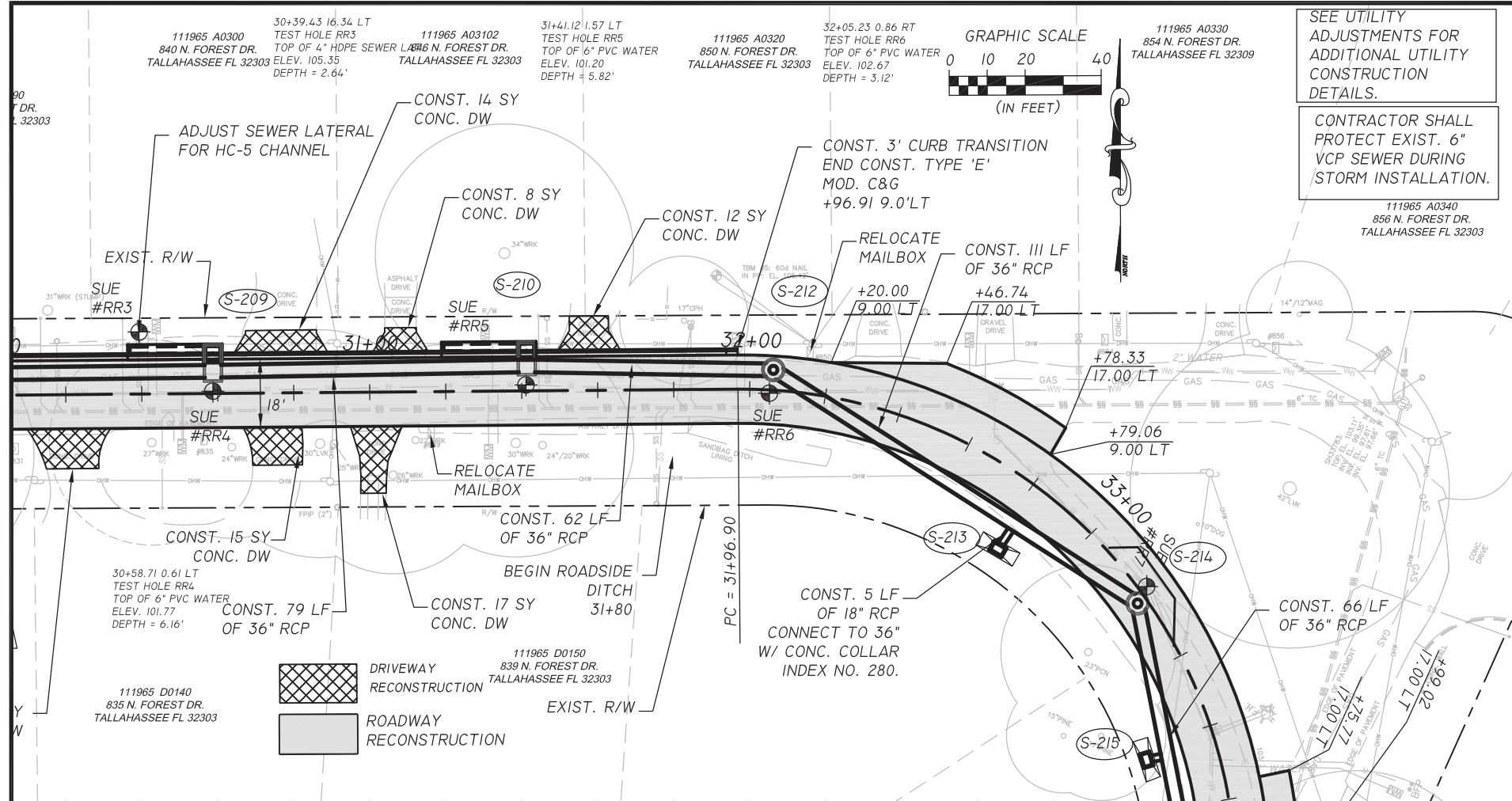
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GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

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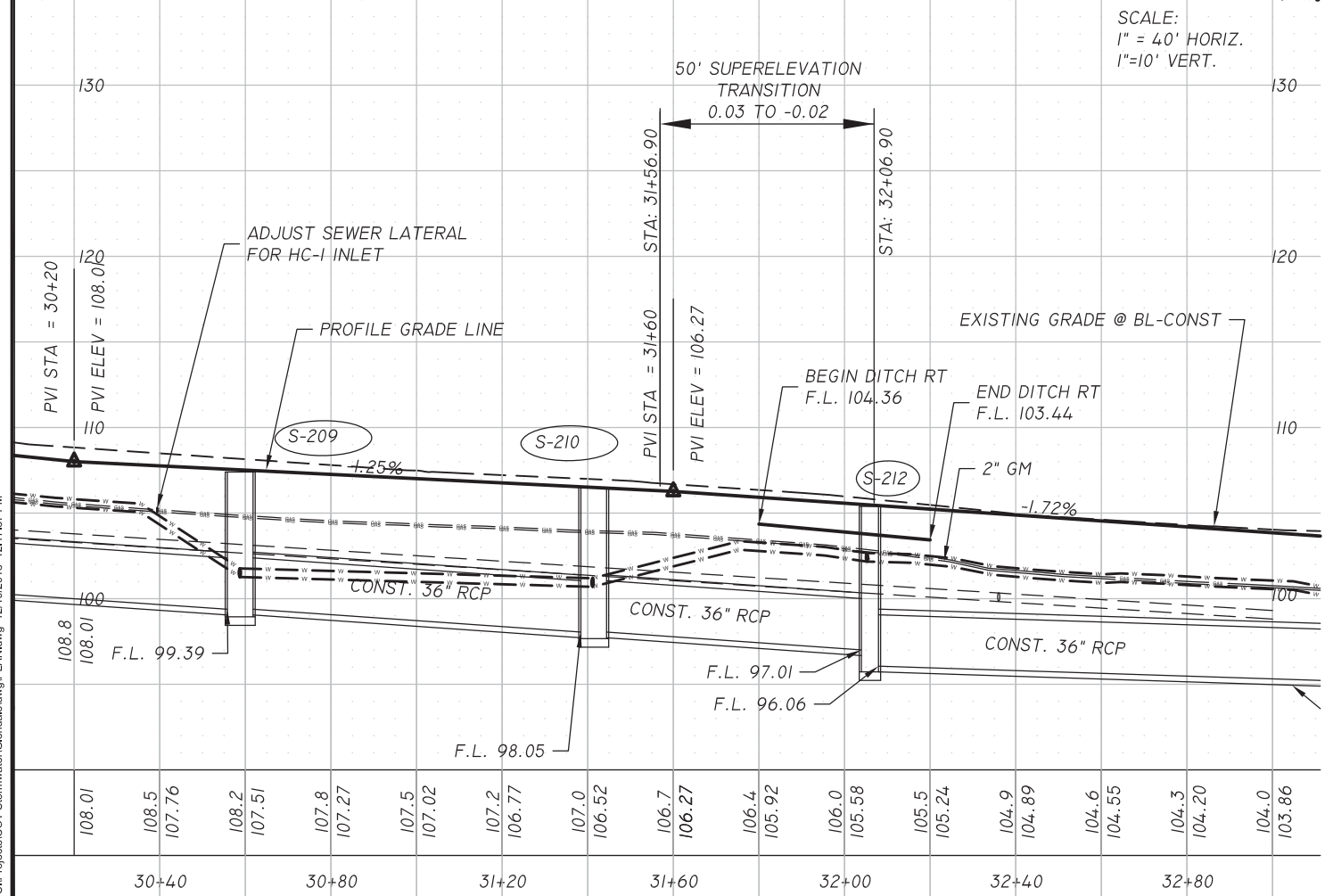
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SEE UTILITY ADJUSTMENTS FOR ADDITIONAL UTILITY CONSTRUCTION DETAILS.

CONTRACTOR SHALL PROTECT EXIST. 6" VCP SEWER DURING STORM INSTALLATION.

111965 A0340
856 N. FOREST DR.
TALLAHASSEE FL 32303



SCALE:
1" = 40' HORIZ.
1" = 10' VERT.

ENGINEER OF RECORD
LANE P. LUCAS P.E.
Eduw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53936

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PROJECT
GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

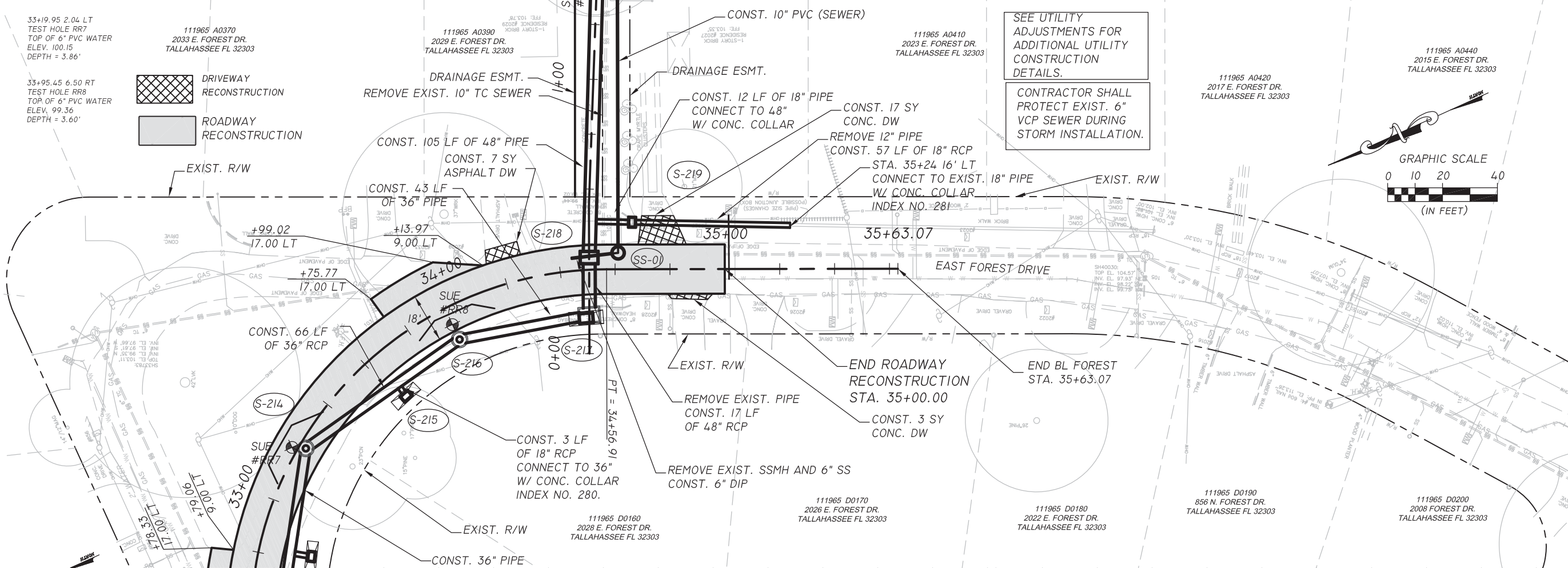
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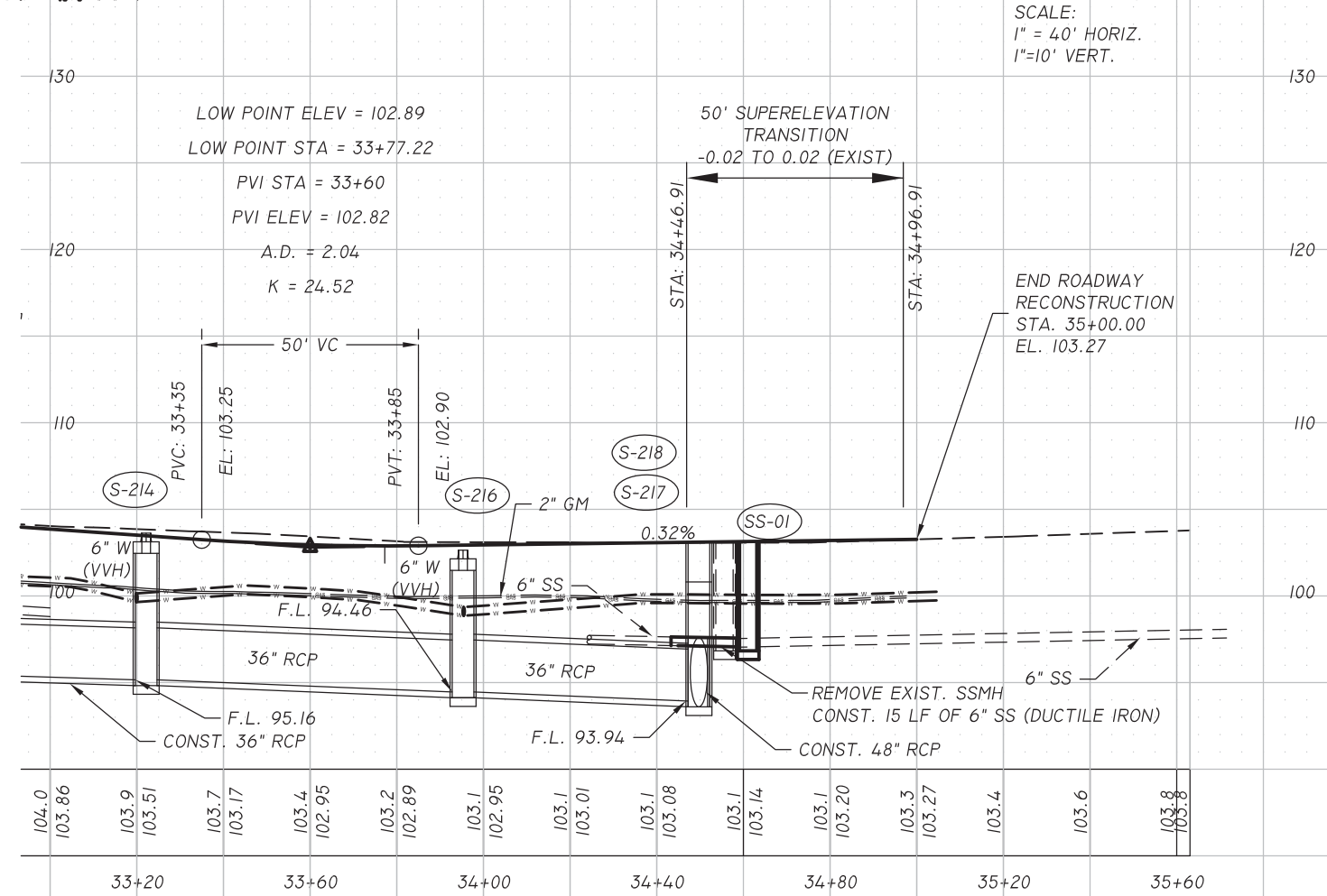
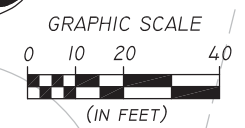
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SEE UTILITY ADJUSTMENTS FOR ADDITIONAL UTILITY CONSTRUCTION DETAILS.

CONTRACTOR SHALL PROTECT EXIST. 6\"/>



SCALE:
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ENGINEER OF RECORD
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Eutaw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
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PROJECT: GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

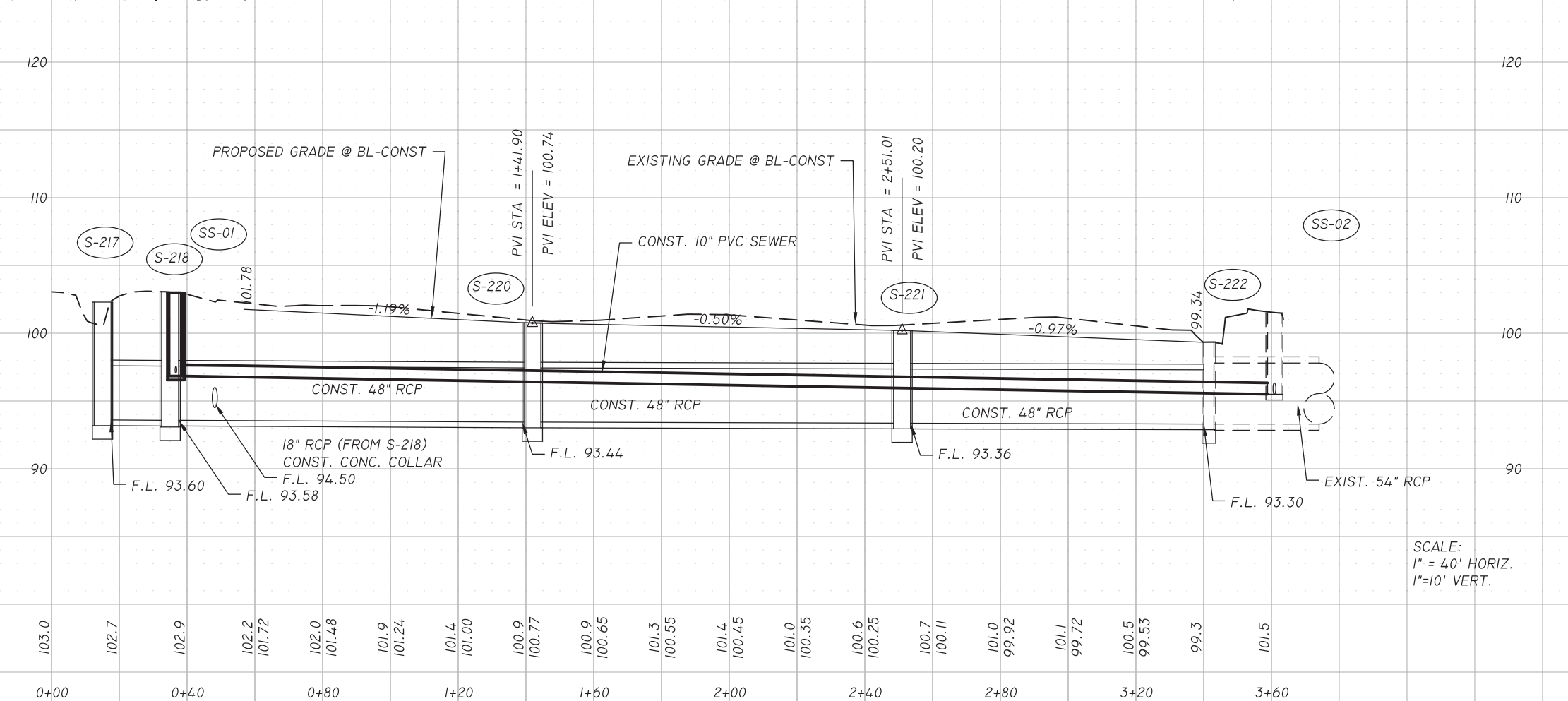
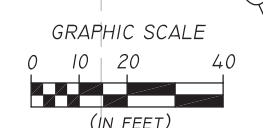
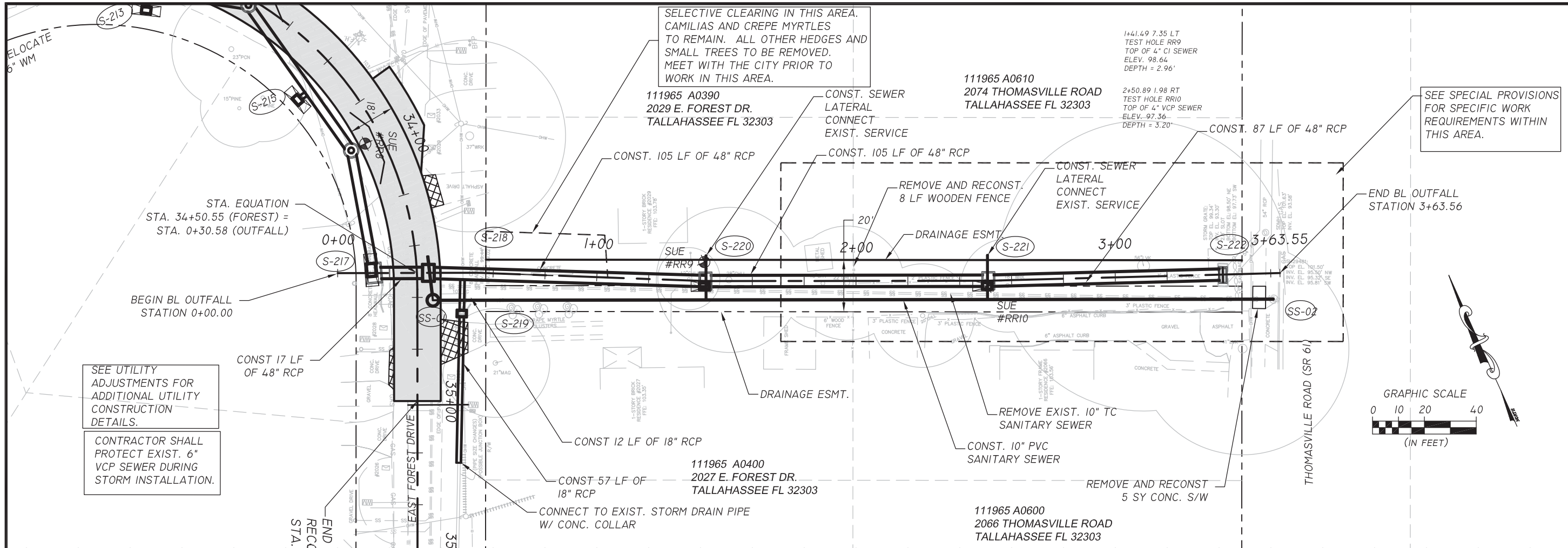
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2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53936

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PROJECT
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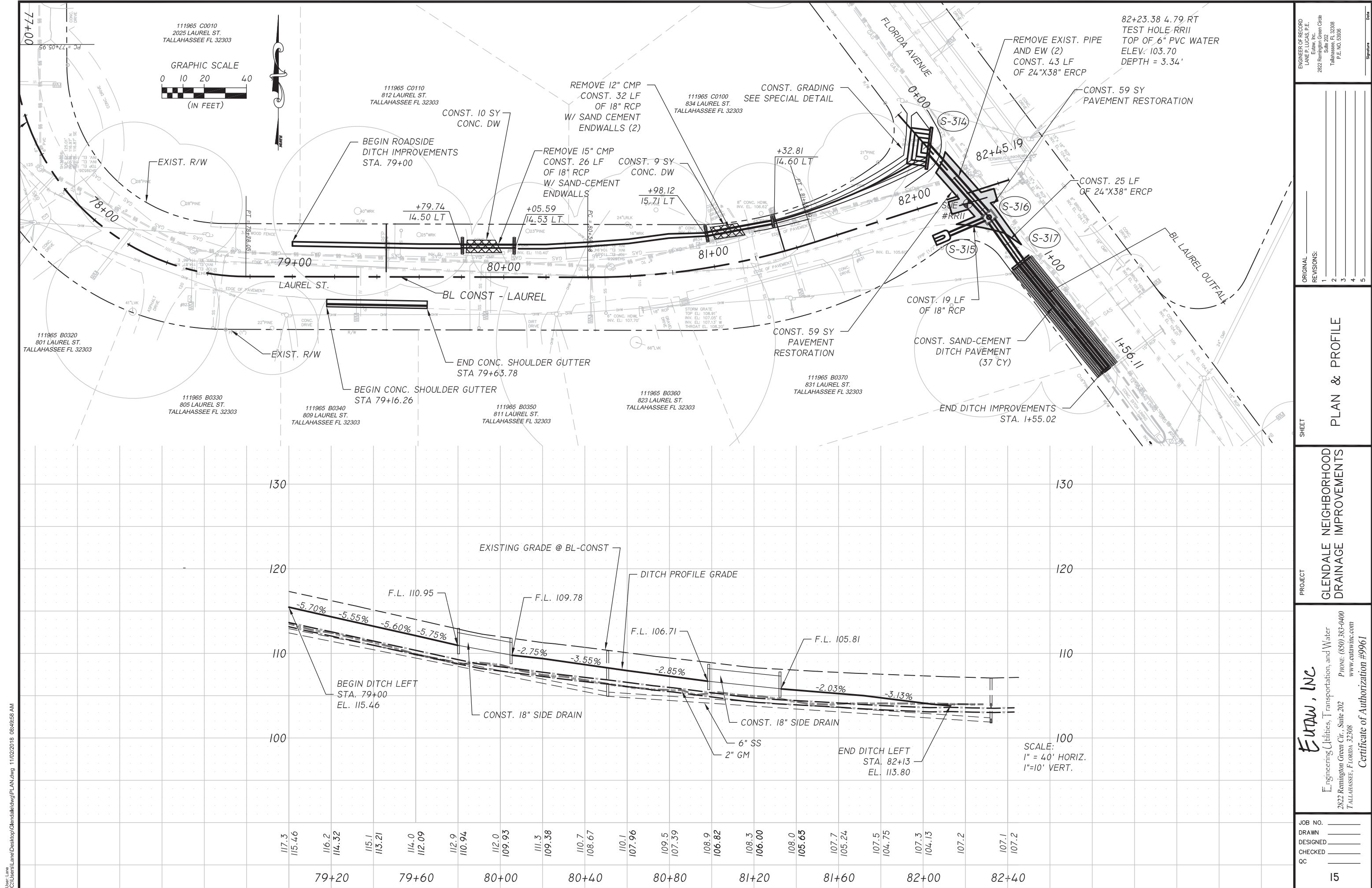
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ENGINEER OF RECORD
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Eduw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53936

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PROJECT

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Eduw, Inc.

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PHONE: (850) 383-0400
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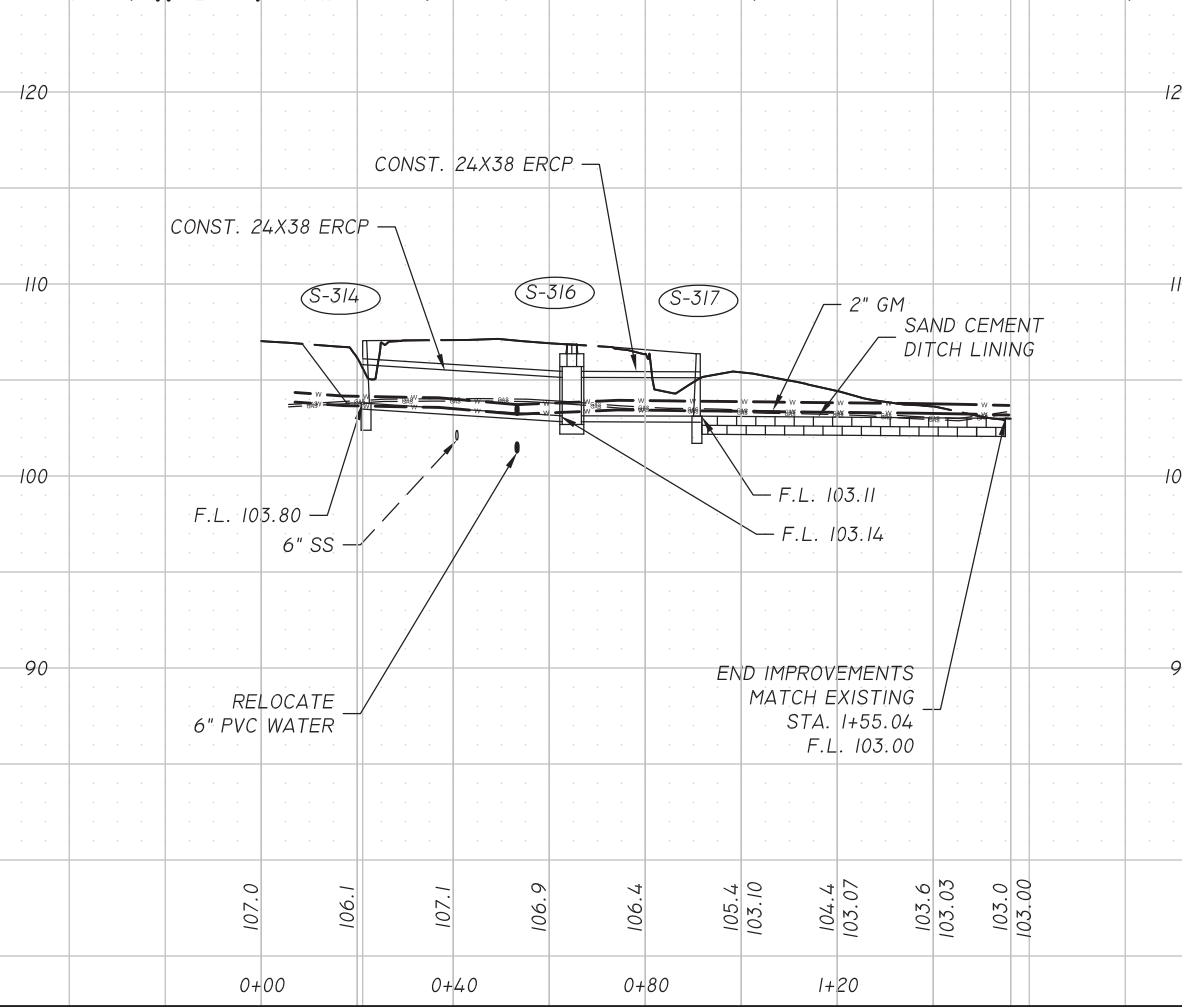
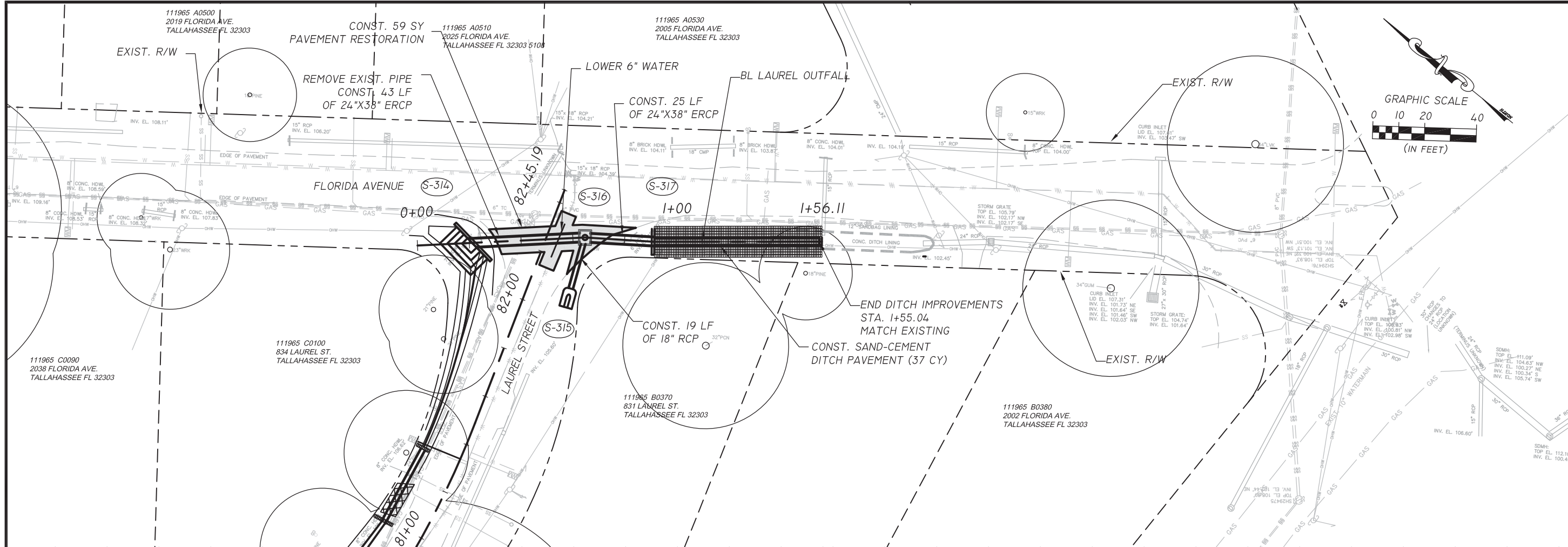
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ENGINEER OF RECORD
LANE P. LUCAS, P.E.
Eduw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53936

DATE

Signature

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SHEET

PROJECT

GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS

PLAN & PROFILE

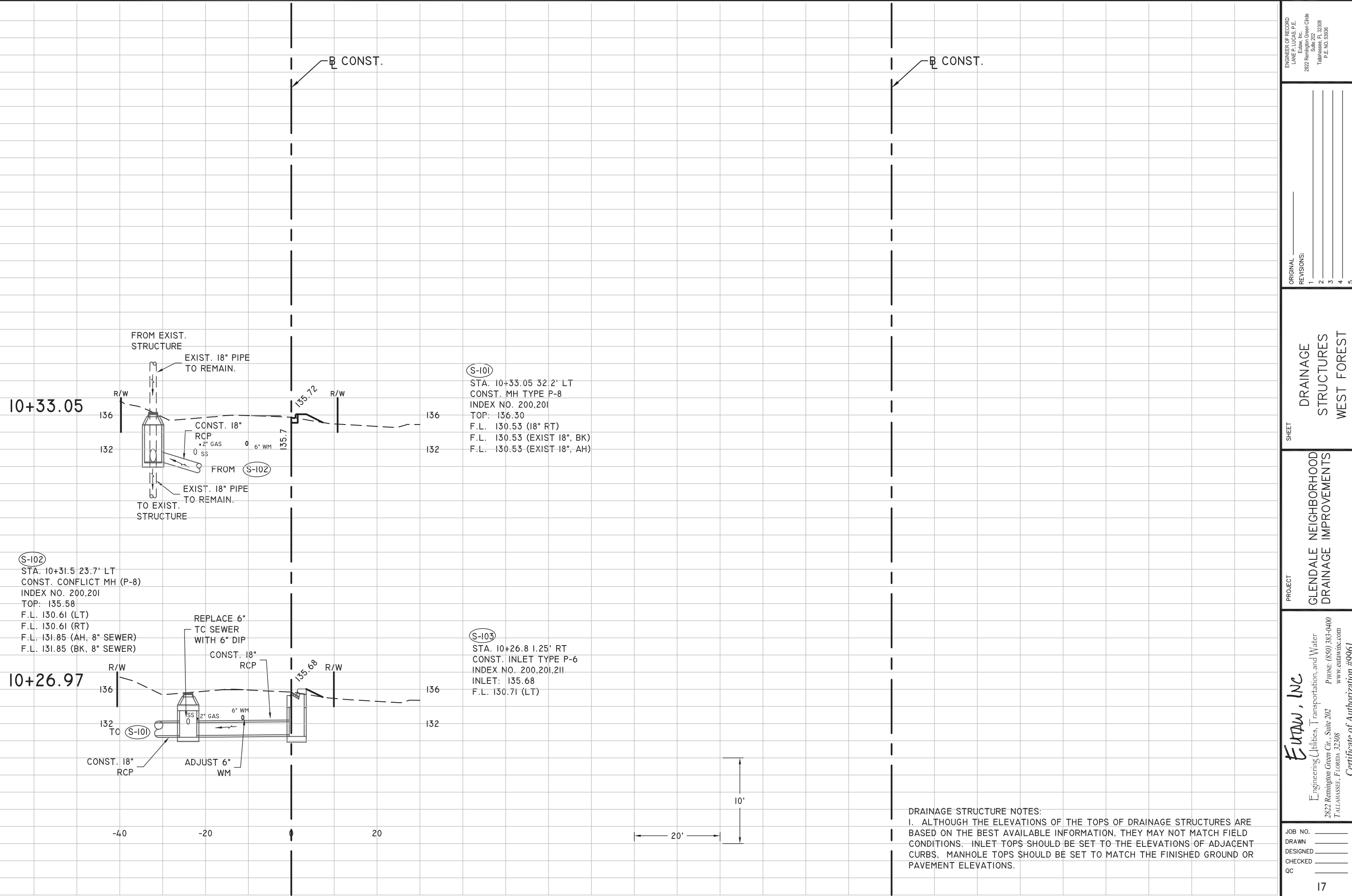
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(S-101)
 STA. 10+33.05 32.2' LT
 CONST. MH TYPE P-8
 INDEX NO. 200,201
 TOP: 136.30
 F.L. 130.53 (18" RT)
 F.L. 130.53 (EXIST 18", BK)
 F.L. 130.53 (EXIST 18", AH)

(S-102)
 STA. 10+31.5 23.7' LT
 CONST. CONFLICT MH (P-8)
 INDEX NO. 200,201
 TOP: 135.58
 F.L. 130.61 (LT)
 F.L. 130.61 (RT)
 F.L. 131.85 (AH, 8" SEWER)
 F.L. 131.85 (BK, 8" SEWER)

(S-103)
 STA. 10+26.8 1.25' RT
 CONST. INLET TYPE P-6
 INDEX NO. 200,201,211
 INLET: 135.68
 F.L. 130.71 (LT)

DRAINAGE STRUCTURE NOTES:
 1. ALTHOUGH THE ELEVATIONS OF THE TOPS OF DRAINAGE STRUCTURES ARE BASED ON THE BEST AVAILABLE INFORMATION, THEY MAY NOT MATCH FIELD CONDITIONS. INLET TOPS SHOULD BE SET TO THE ELEVATIONS OF ADJACENT CURBS, MANHOLE TOPS SHOULD BE SET TO MATCH THE FINISHED GROUND OR PAVEMENT ELEVATIONS.

ENGINEER OF RECORD
 LANE P. LUCAS P.E.
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 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53936

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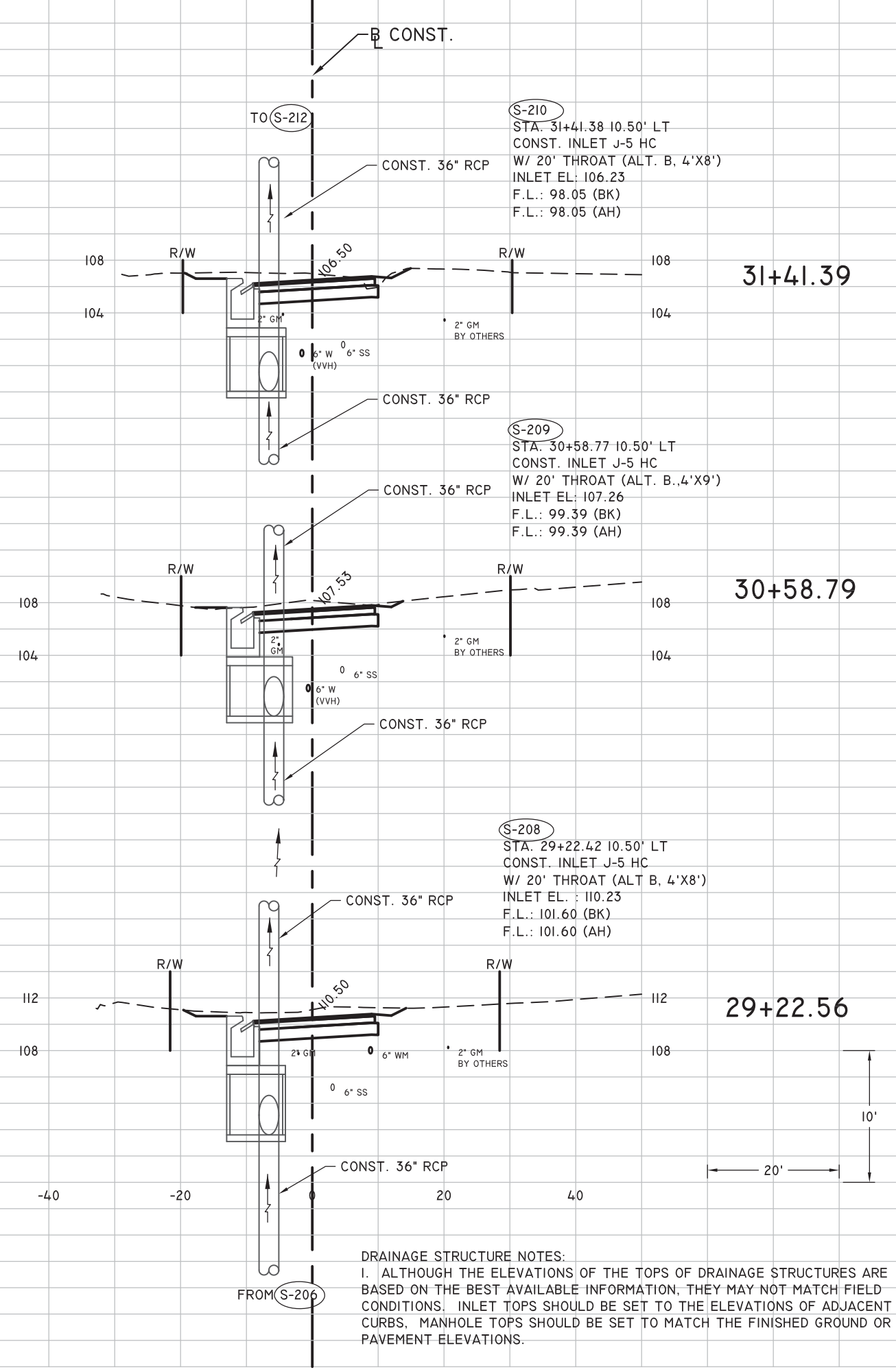
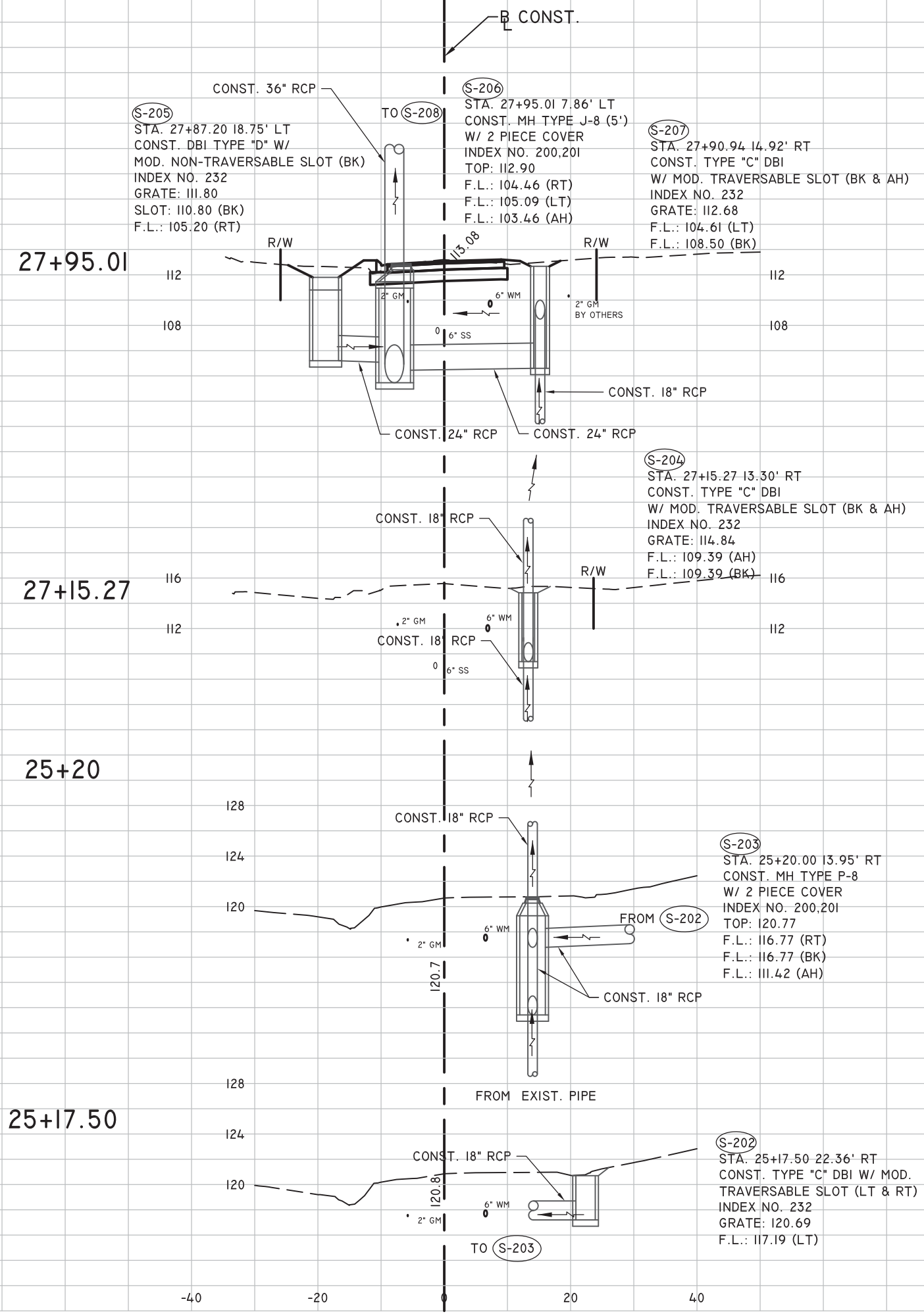
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 DRAINAGE
 STRUCTURES
 WEST FOREST

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DRAINAGE STRUCTURE NOTES:
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ENGINEER OF RECORD
LANE P. LUCAS, P.E.
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2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53596

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33+22.16

32+82.93

32+05.90

S-214
 STA. 33+22.16 2.49' RT
 CONST. MH TYPE J-8 (5')
 W/ 2 PIECE COVER
 INDEX 200, 201
 TOP: 103.43
 F.L.: 95.16 (BK)
 F.L.: 95.16 (AH)

S-213
 STA. 32+82.93 19.24' RT
 CONST. TYPE "C" DBI
 W/ MOD. NON-TRAVERSABLE SLOT (BK&AH)
 INDEX NO. 232
 GRATE: 102.39
 F.L.: 96.21 (LT)

S-212
 STA. 32+05.90 5.33' LT
 CONST. MH TYPE J-8 (5')
 W/ 2 PIECE COVER
 INDEX 200, 201
 TOP: 105.58
 F.L.: 97.01 (BK)
 F.L.: 96.06 (AH)

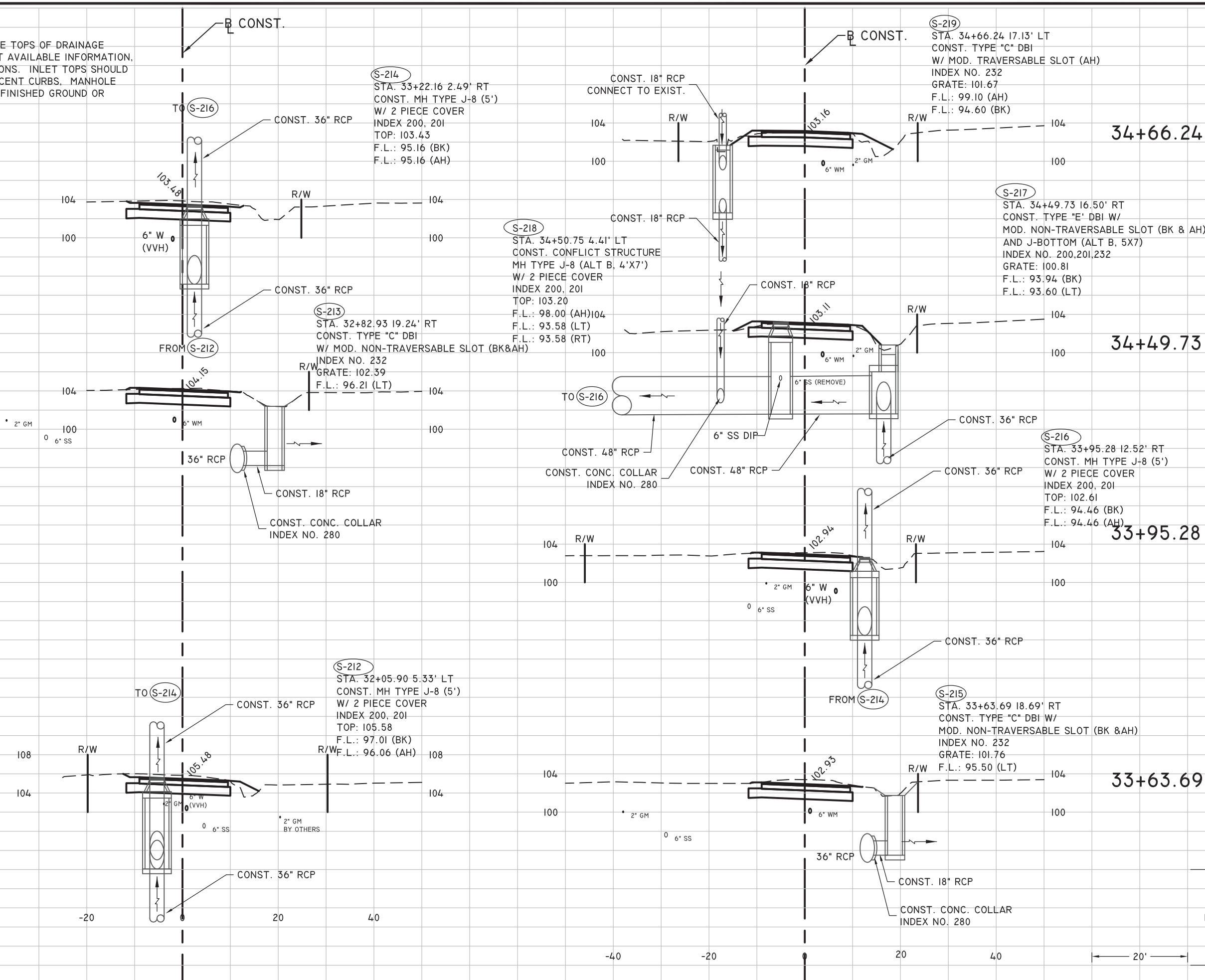
S-218
 STA. 34+50.75 4.41' LT
 CONST. CONFLICT STRUCTURE
 MH TYPE J-8 (ALT B, 4'X7')
 W/ 2 PIECE COVER
 INDEX 200, 201
 TOP: 103.20
 F.L.: 98.00 (AH)
 F.L.: 93.58 (LT)
 F.L.: 93.58 (RT)

S-219
 STA. 34+66.24 17.13' LT
 CONST. TYPE "C" DBI
 W/ MOD. TRAVERSABLE SLOT (AH)
 INDEX NO. 232
 GRATE: 101.67
 F.L.: 99.10 (AH)
 F.L.: 94.60 (BK)

S-217
 STA. 34+49.73 16.50' RT
 CONST. TYPE "E" DBI W/
 MOD. NON-TRAVERSABLE SLOT (BK & AH)
 AND J-BOTTOM (ALT B, 5X7)
 INDEX NO. 200,201,232
 GRATE: 100.81
 F.L.: 93.94 (BK)
 F.L.: 93.60 (LT)

S-216
 STA. 33+95.28 12.52' RT
 CONST. MH TYPE J-8 (5')
 W/ 2 PIECE COVER
 INDEX 200, 201
 TOP: 102.61
 F.L.: 94.46 (BK)
 F.L.: 94.46 (AH)

S-215
 STA. 33+63.69 18.69' RT
 CONST. TYPE "C" DBI W/
 MOD. NON-TRAVERSABLE SLOT (BK & AH)
 INDEX NO. 232
 GRATE: 101.76
 F.L.: 95.50 (LT)



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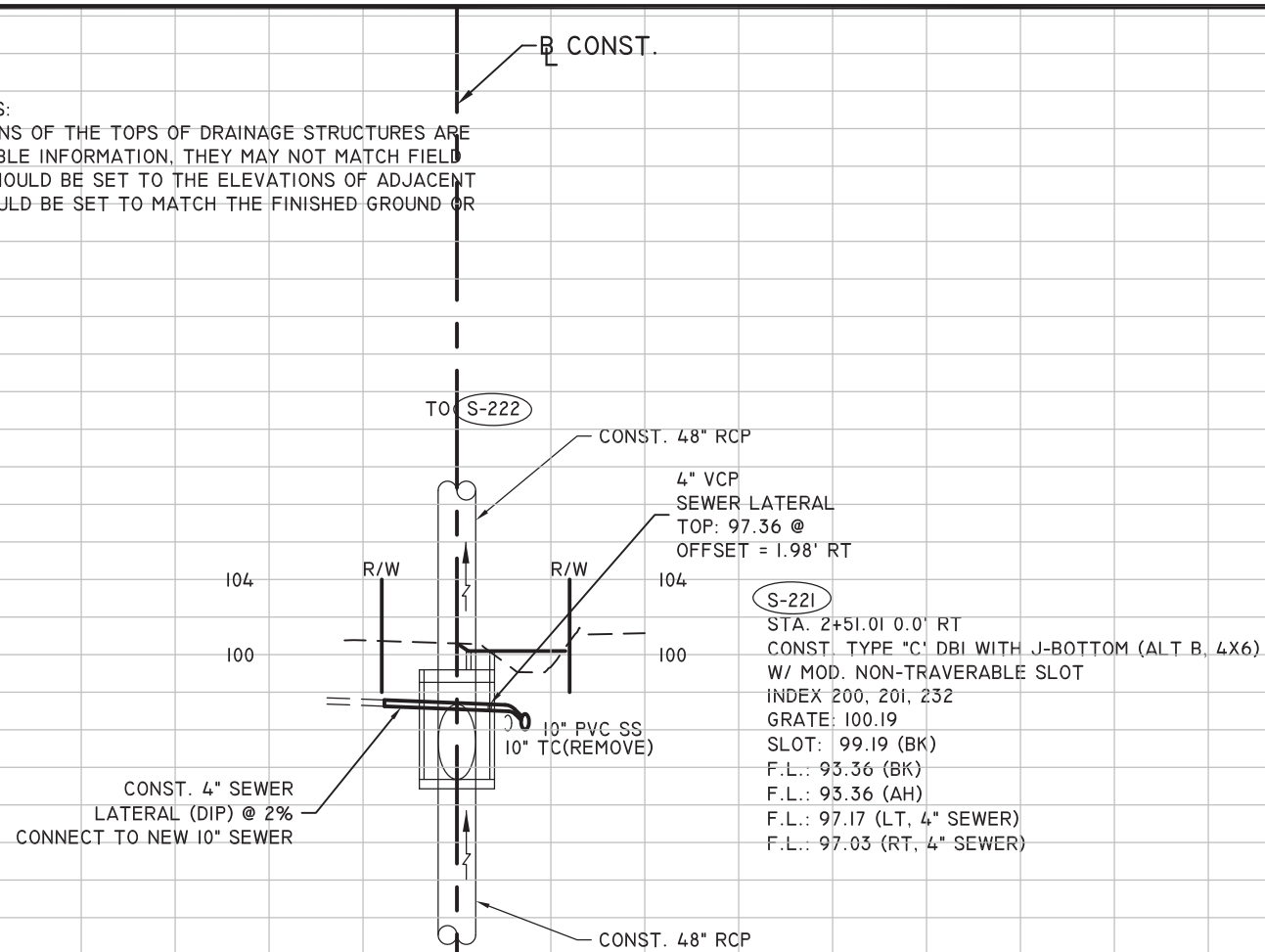
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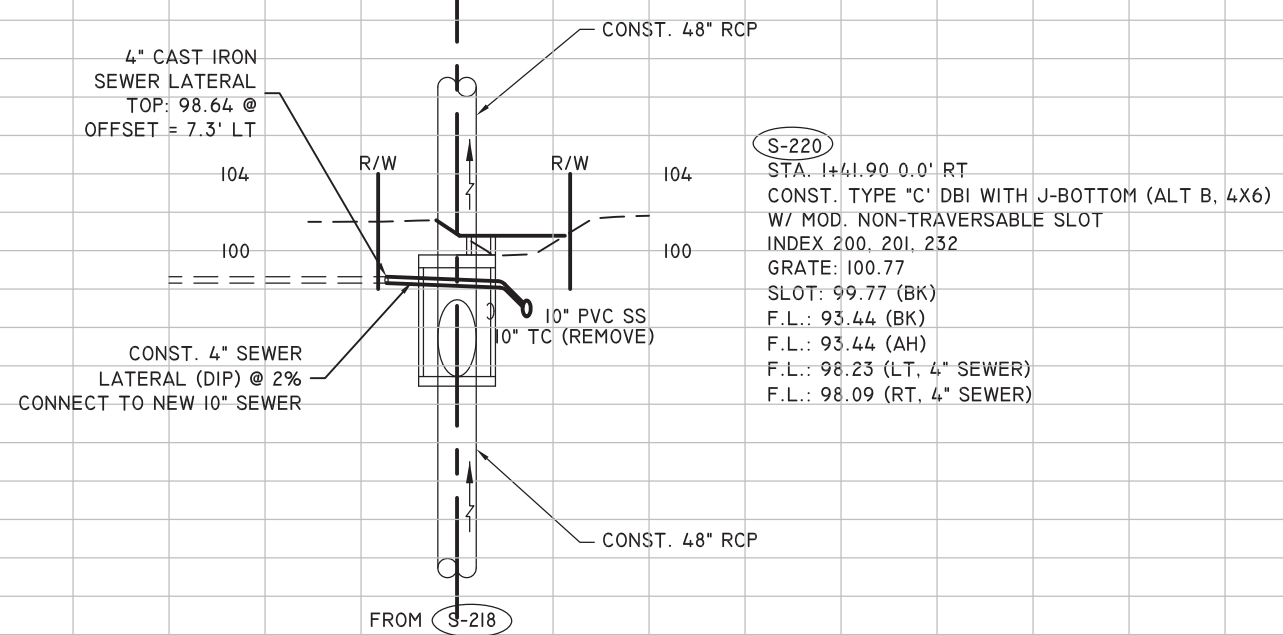
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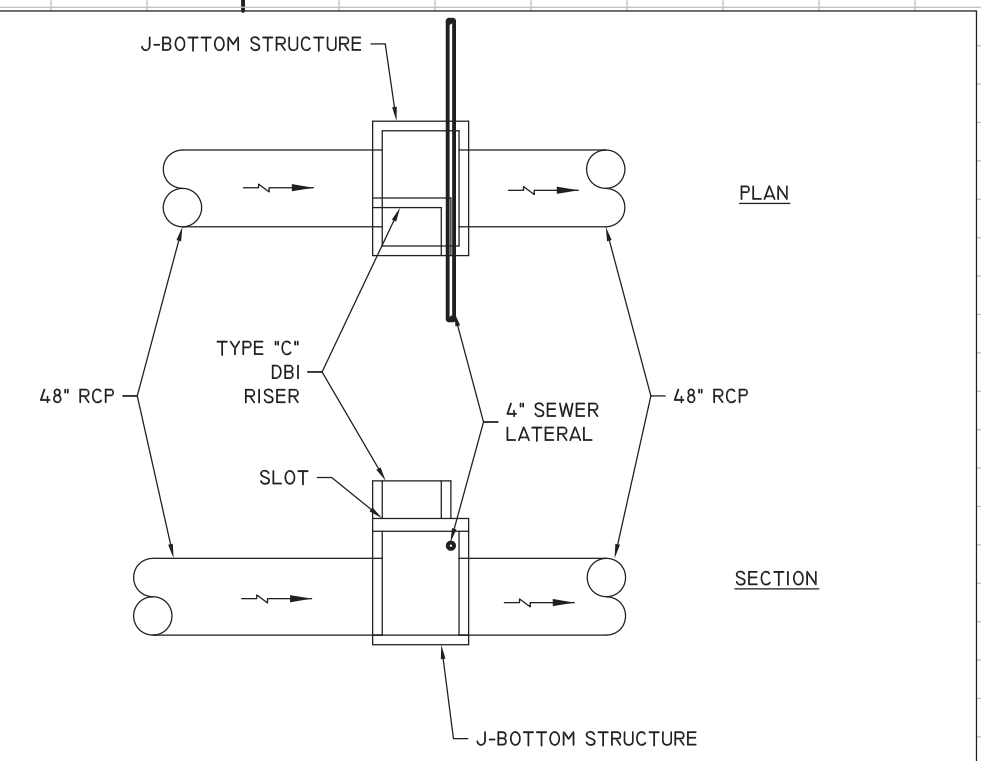
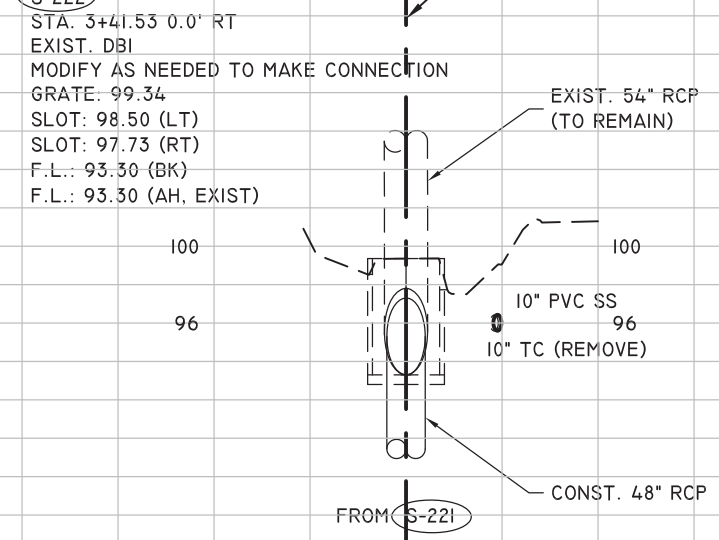
S-221
2+51.01



S-220
1+41.90



S-222

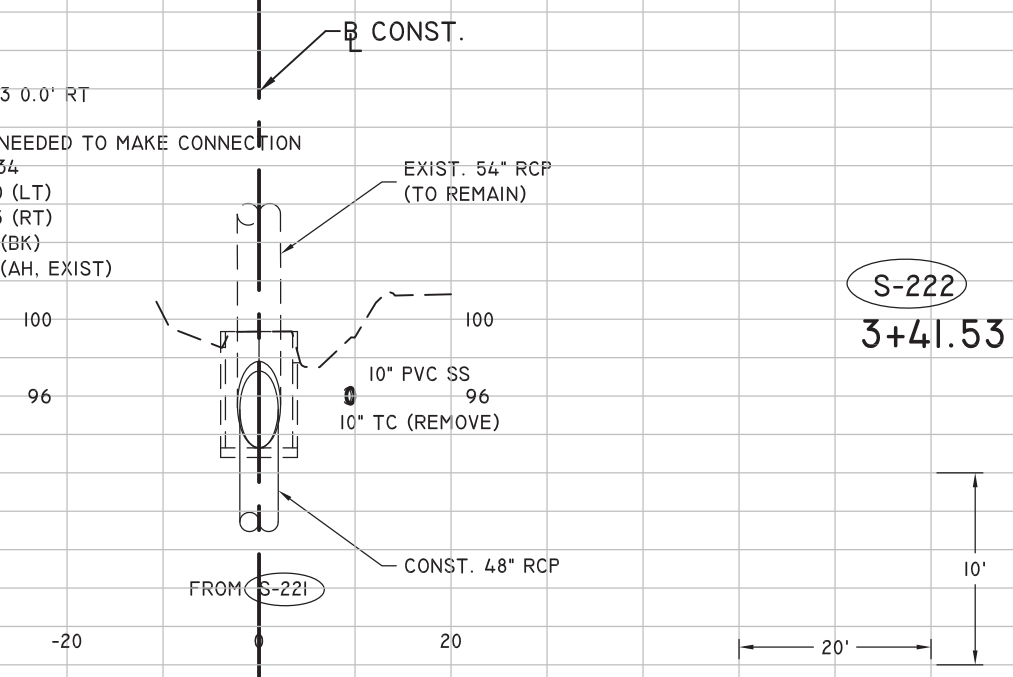


**S-220 AND S-221
SUPPLEMENTAL DETAILS**

NOTES:

- S-220 AND S-221 LOCATION SHALL BE FIELD ADJUSTED TO MATCH LOCATION OF EXISTING SEWER LATERALS.
- STRUCTURES SHALL BE INSTALLED SUCH THAT SEWER LATERAL DOES NOT PASS UNDER THE OPENING OF THE TYPE "C" DBI RISER TO FACILITATE MAINTENANCE ACCESS OF THE STRUCTURE.

S-222
3+41.53



ENGINEER OF RECORD
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SHEET
**DRAINAGE
STRUCTURES
OUTFALL**

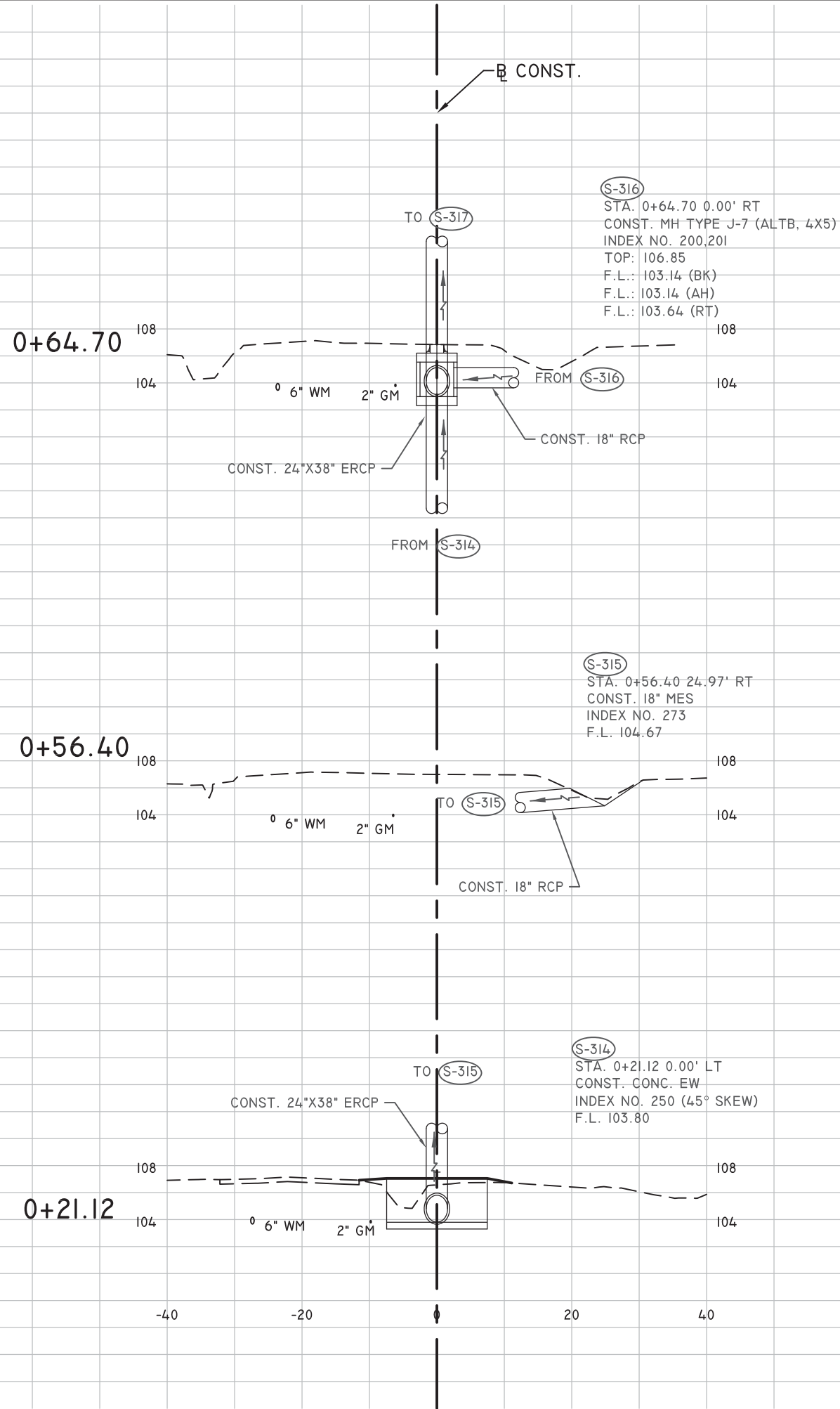
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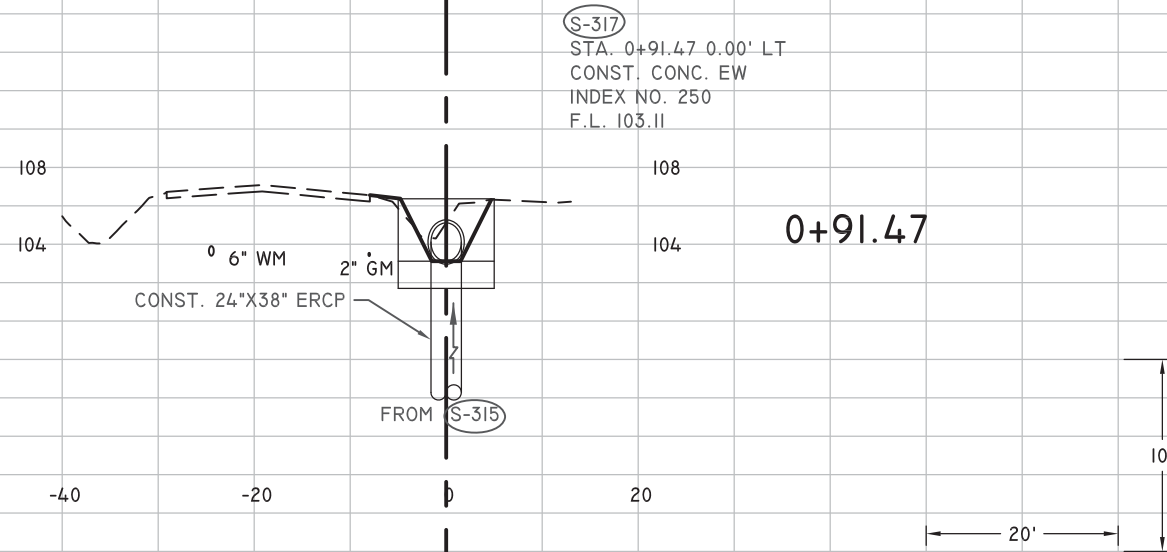
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DRAINAGE STRUCTURE NOTES:
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ENGINEER OF RECORD
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 Etlaw, Inc.
 2822 Remington Green Circle
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SHEET
 DRAINAGE STRUCTURES
 LAUREL OUTFALL

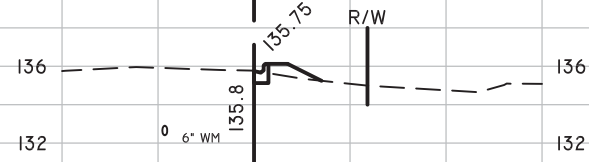
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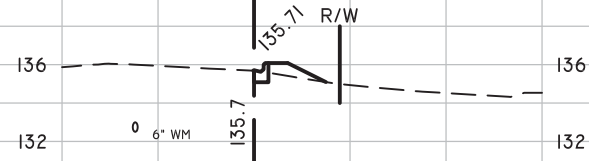
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10+40



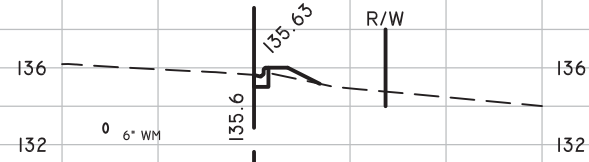
CONST.

10+20

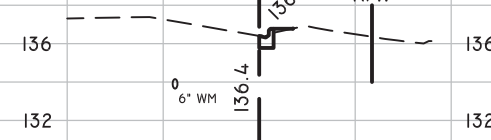


CONST.

10+00

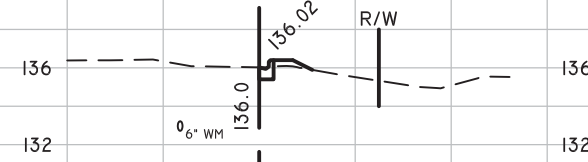


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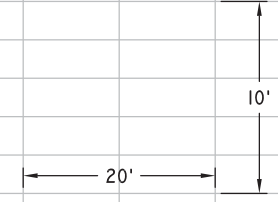
CONST.

10+79.93



CONST.

10+60



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 LANE P. LUCAS, P.E.
 EITW, Inc.
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 P.E. NO. 53936

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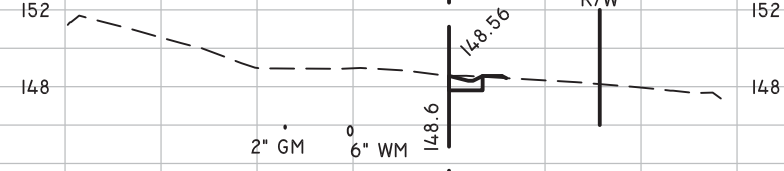
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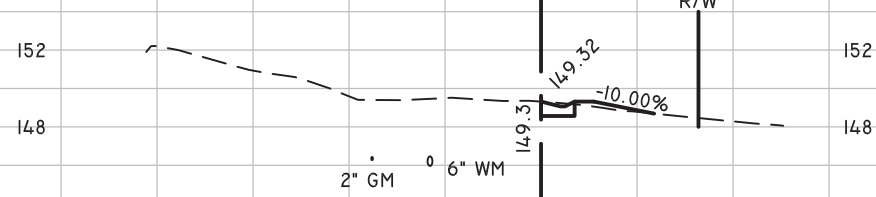
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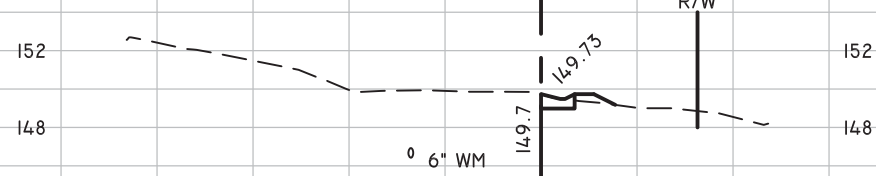


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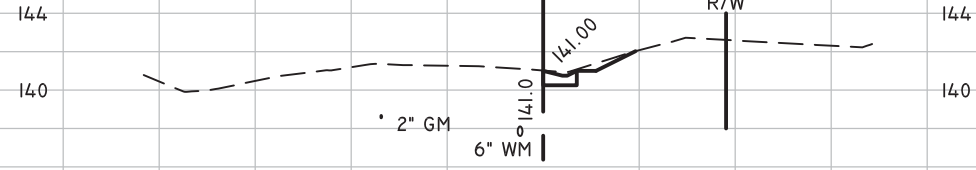
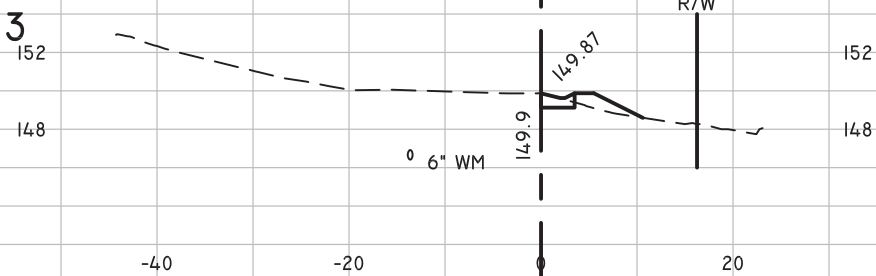
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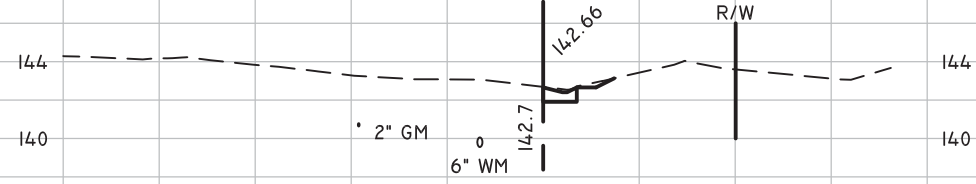
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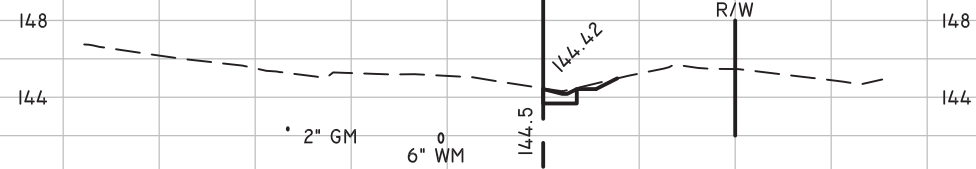
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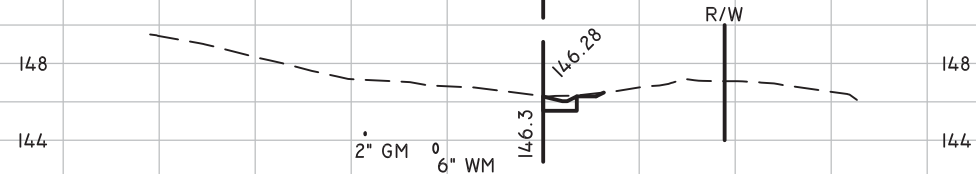
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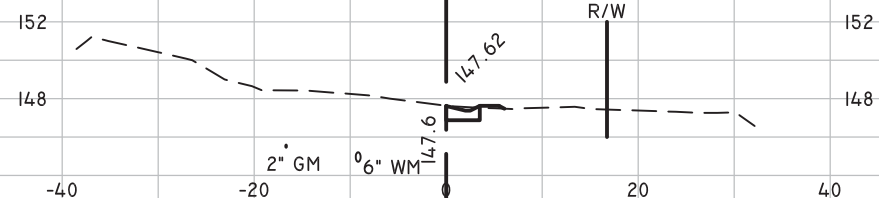
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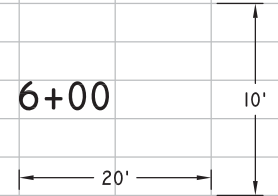
6+40



6+20



6+00



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CROSS SECTIONS
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PROJECT
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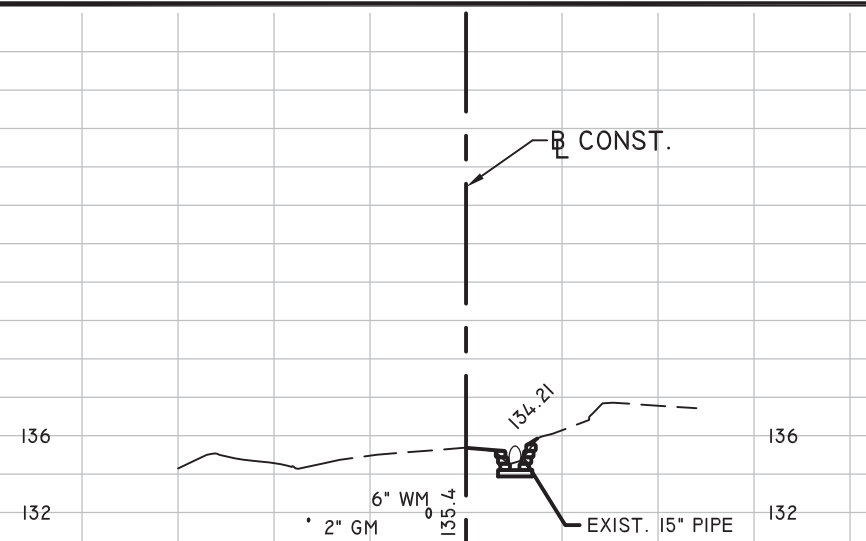
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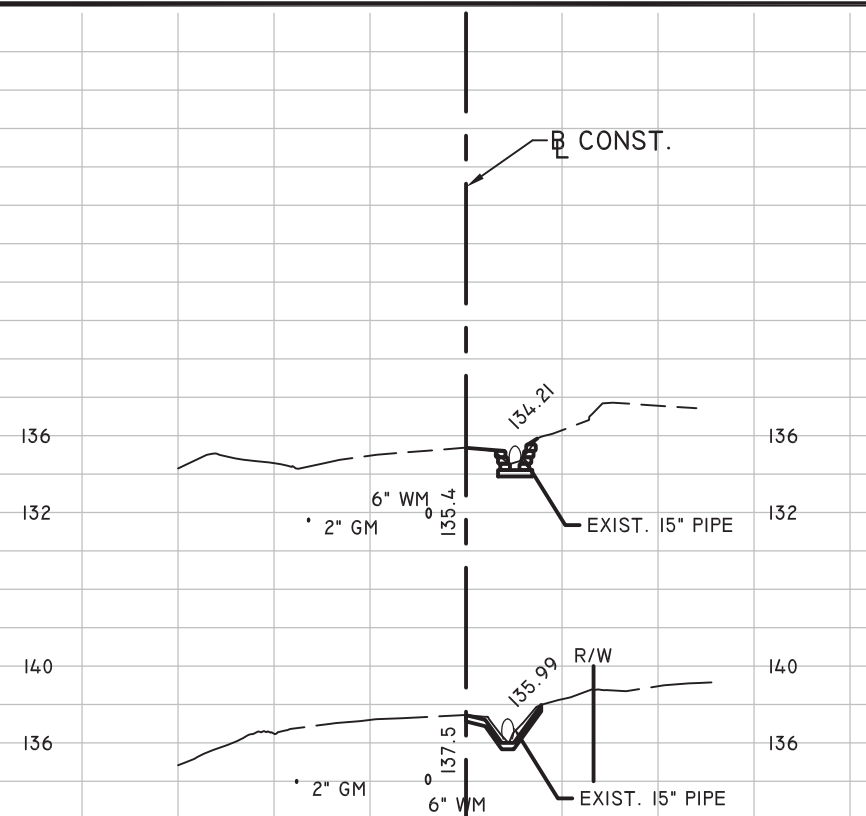
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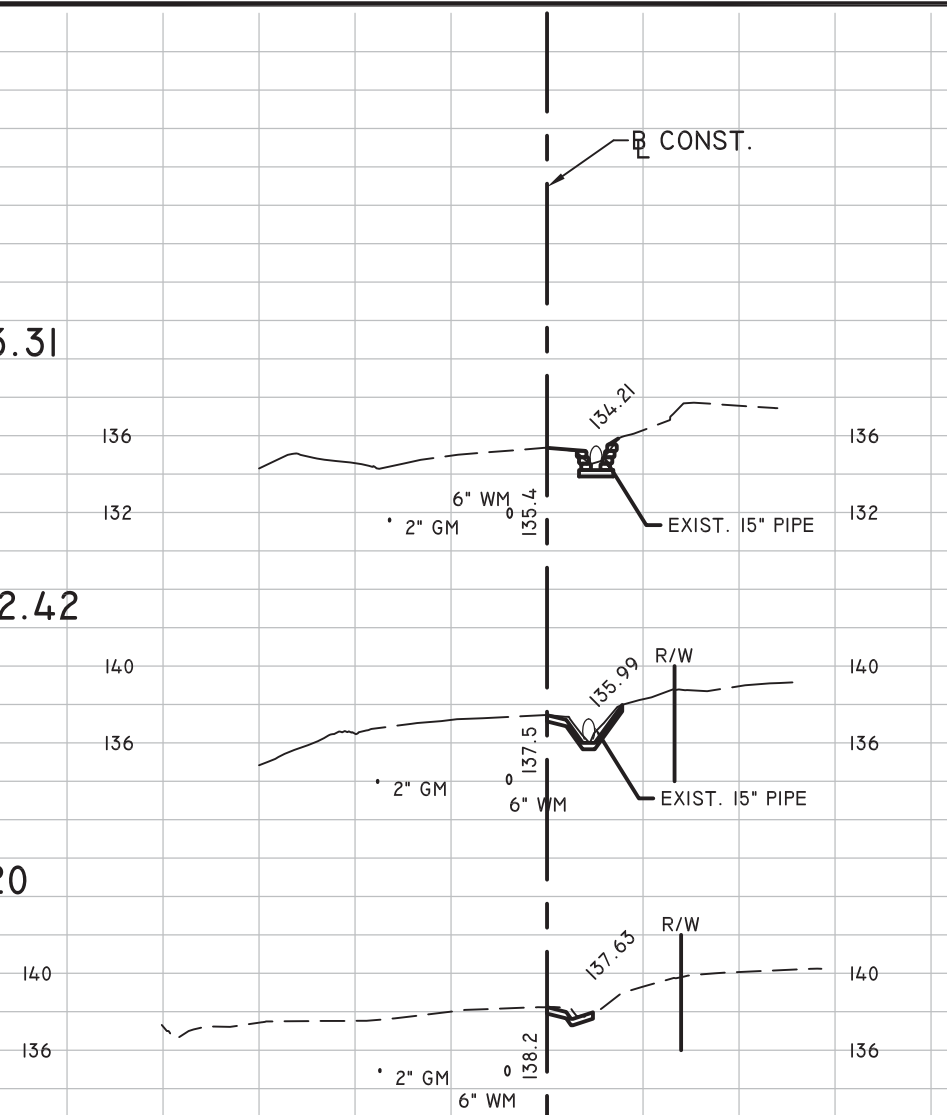
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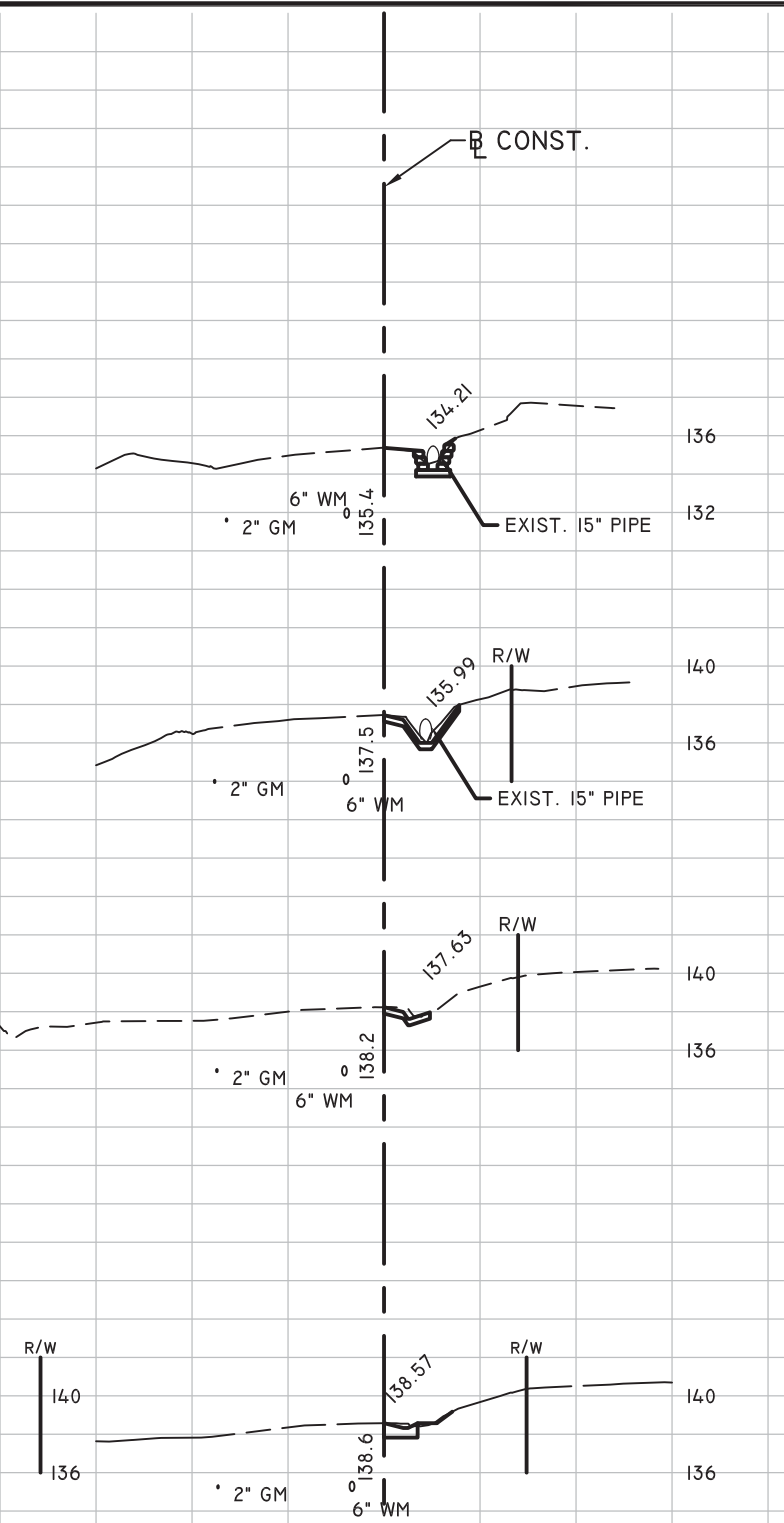
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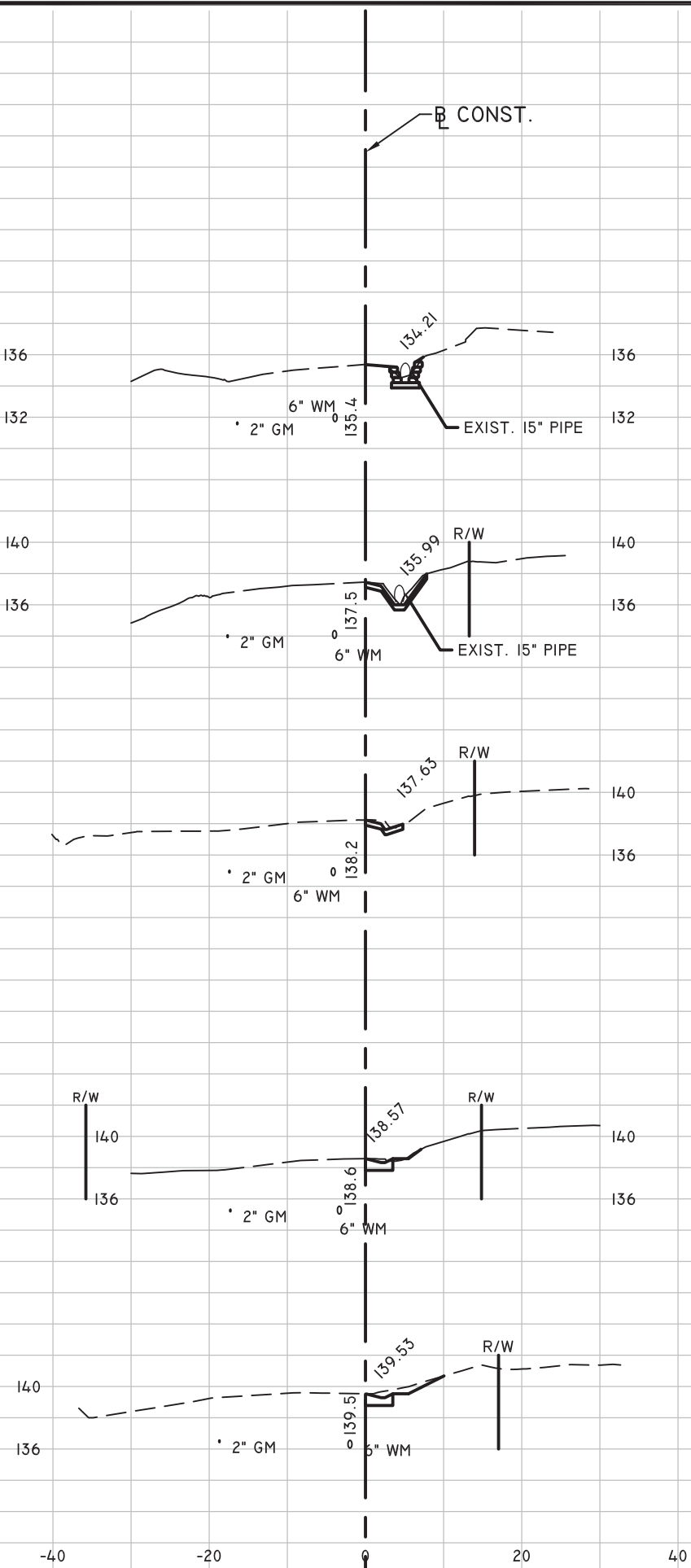
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7+14.80

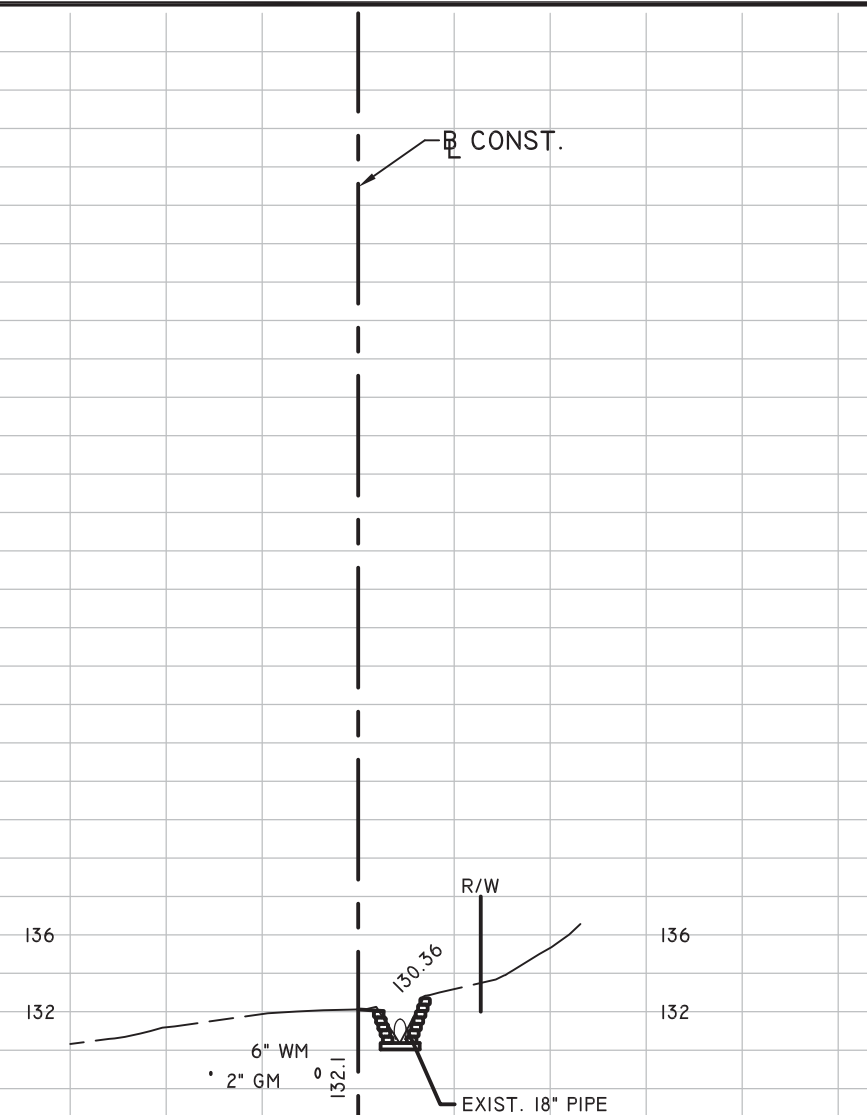


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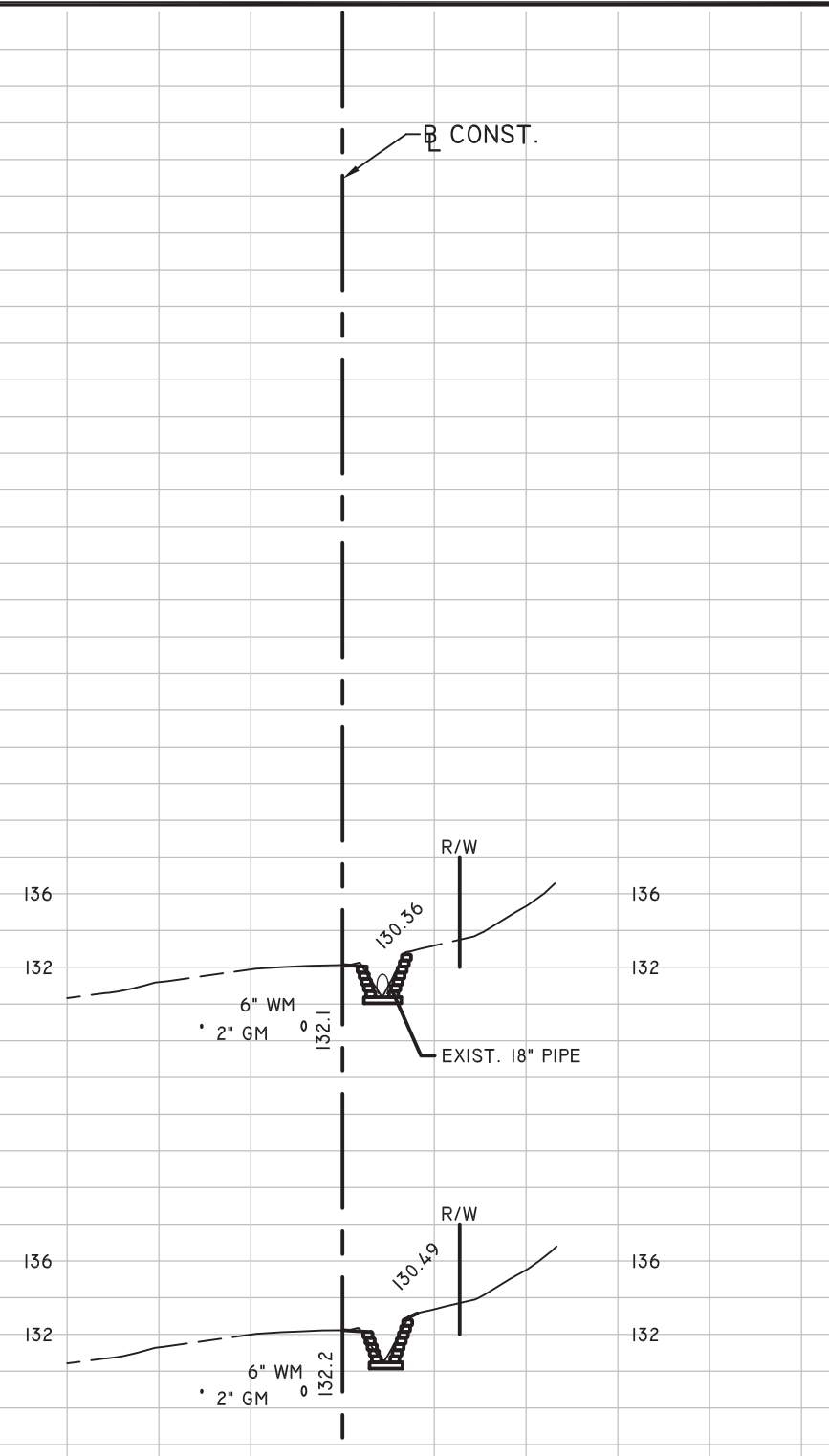


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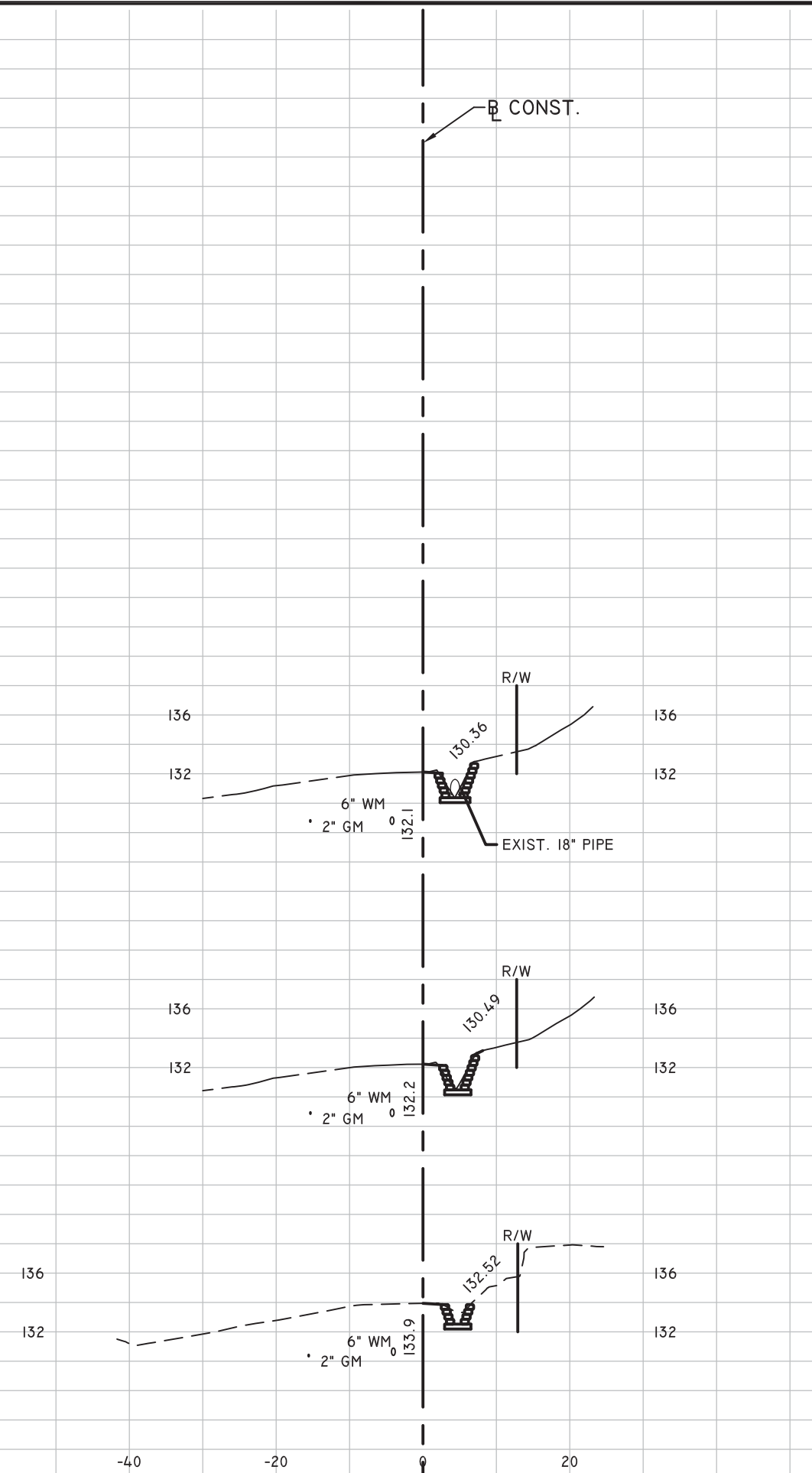
8+01.23



8+00



7+80



20'

10'

ENGINEER OF RECORD
 LANE P. LUCAS, P.E.
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CROSS SECTIONS
 NORTHWEST FOREST

PROJECT

GLENDALE NEIGHBORHOOD
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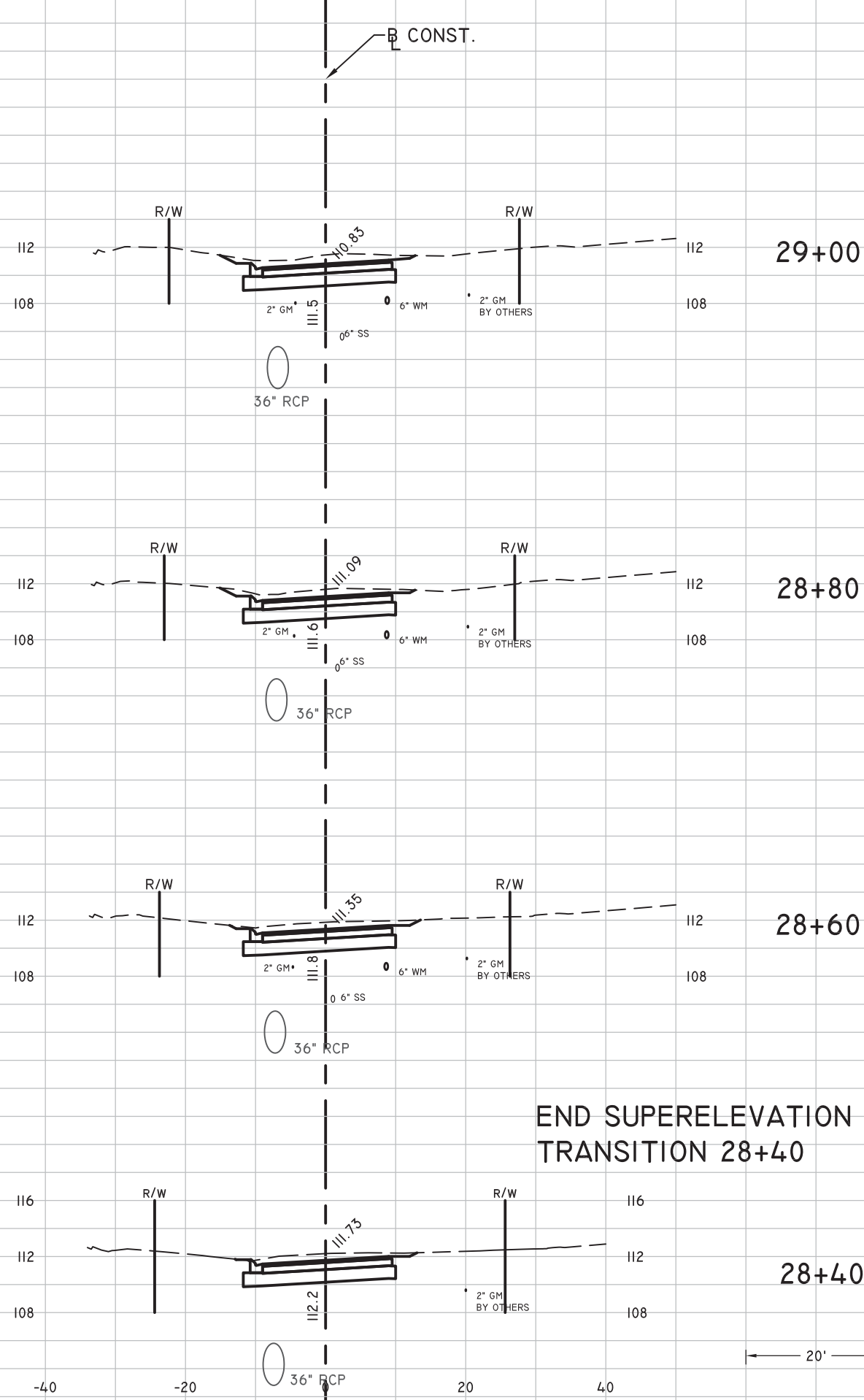
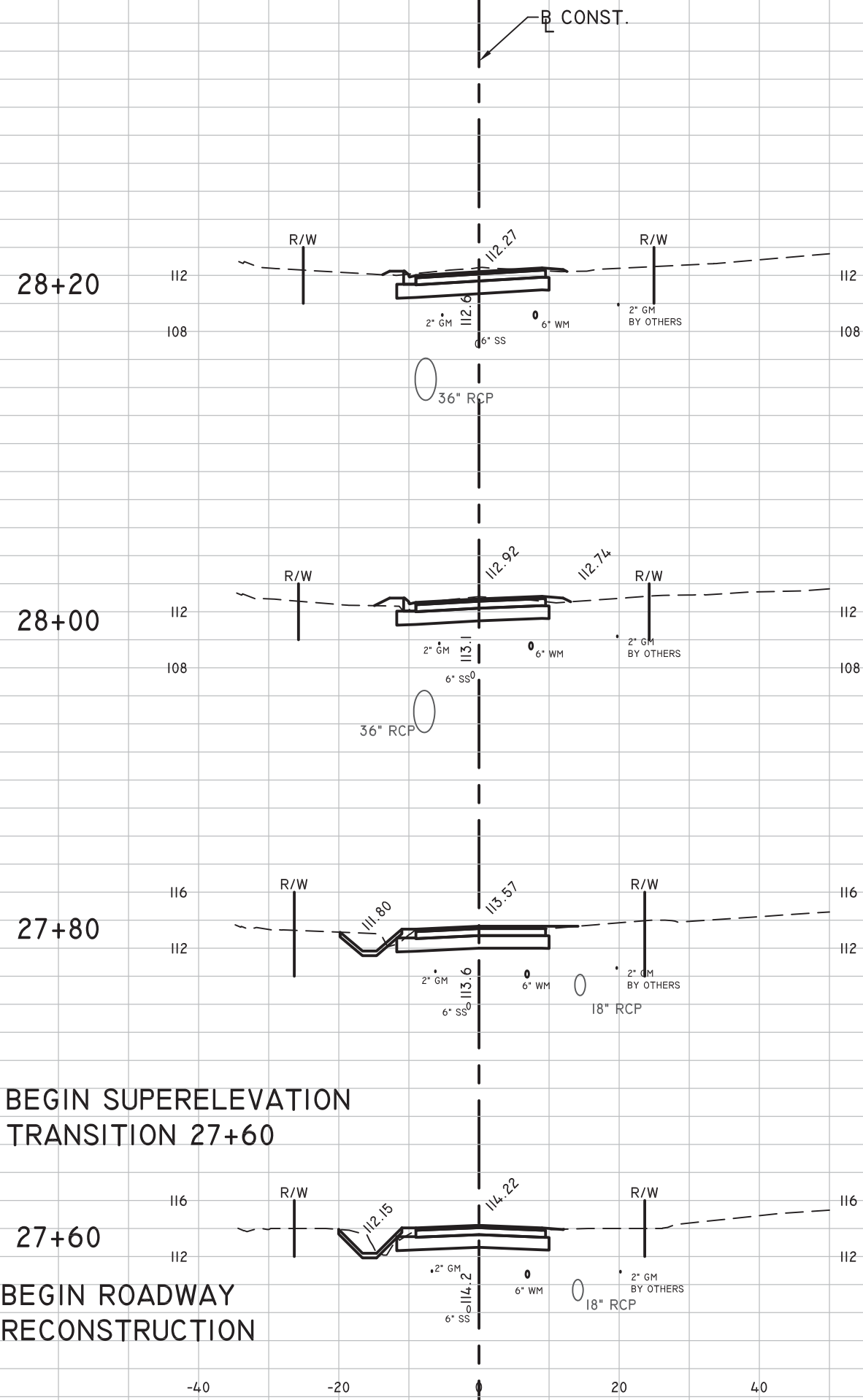
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BEGIN SUPERELEVATION
TRANSITION 27+60

END SUPERELEVATION
TRANSITION 28+40

BEGIN ROADWAY
RECONSTRUCTION

ENGINEER OF RECORD
LANE P. LUCAS, P.E.
Eduw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53936

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SHEET
PROJECT
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FOREST DRIVE

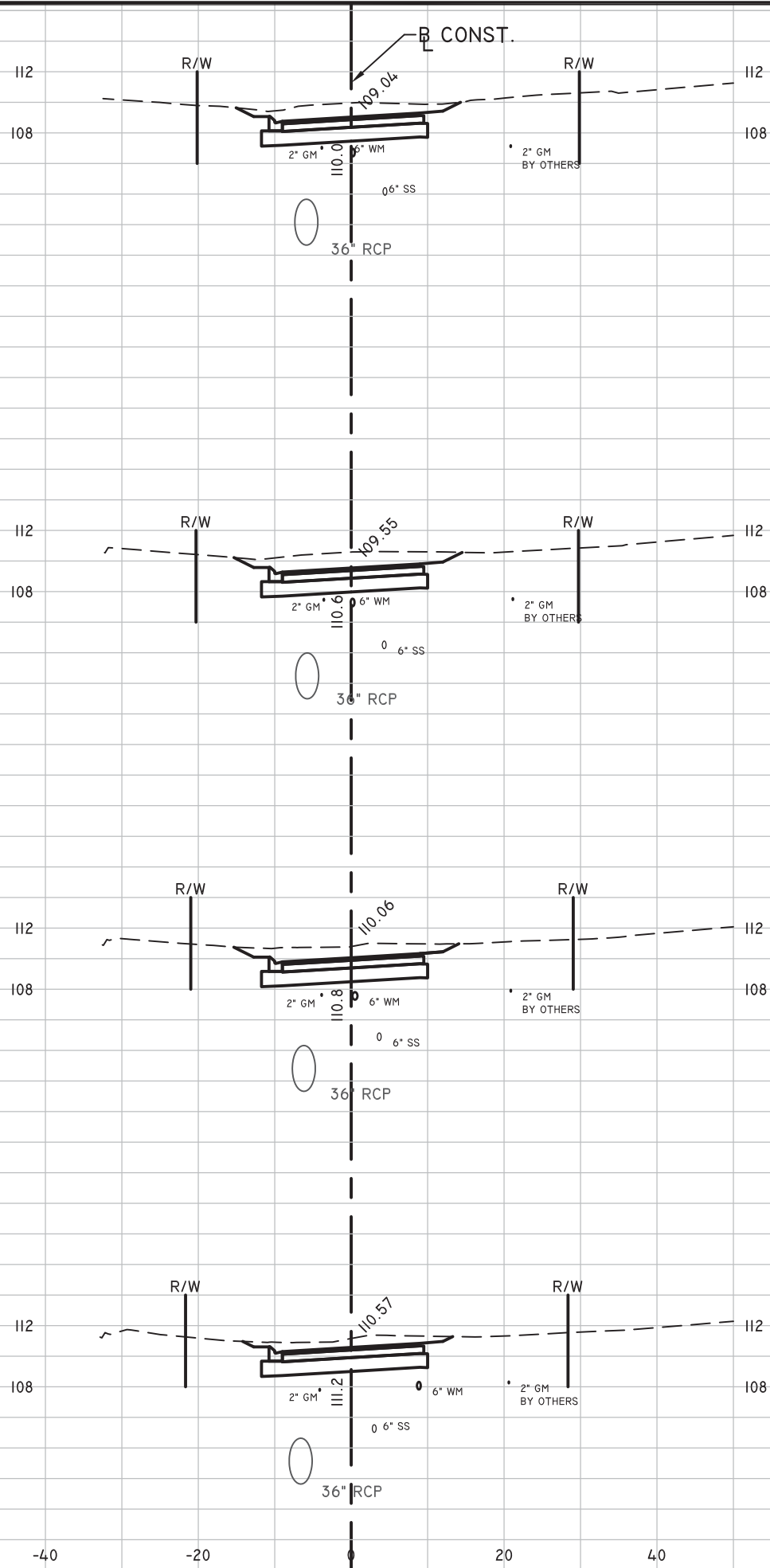
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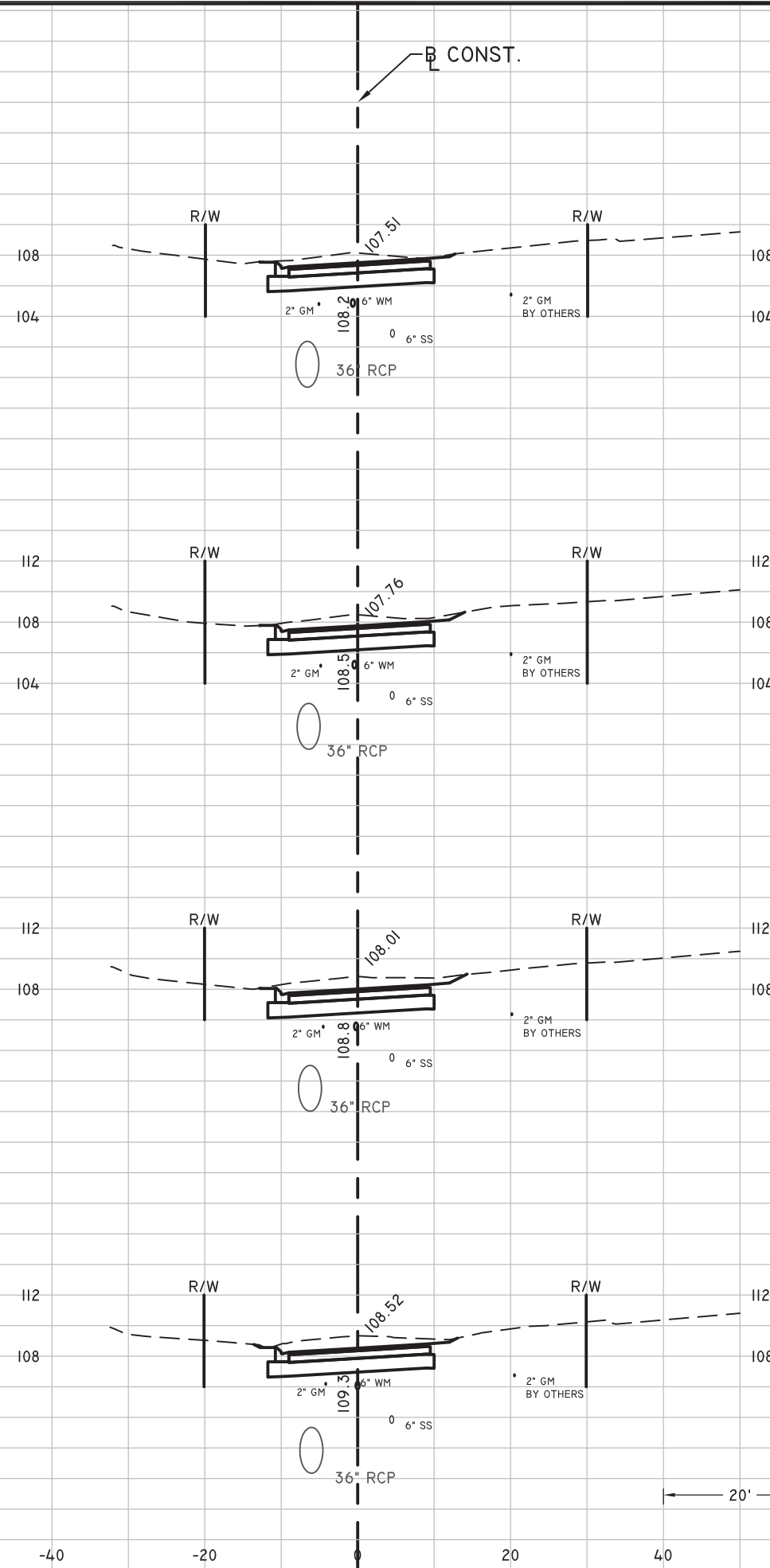


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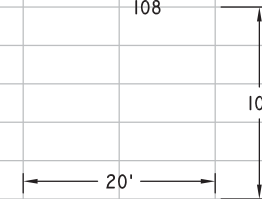
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30+40

30+20

30+00



ENGINEER OF RECORD
 LANE P. LUCAS, P.E.
 E.T.W., Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53936

ORIGINAL _____

REVISIONS:

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CROSS SECTIONS
 FOREST DRIVE

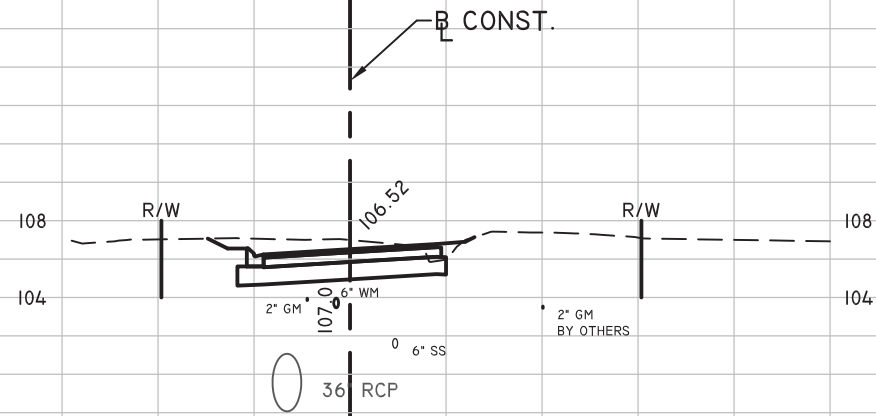
PROJECT
 GLENDALE NEIGHBORHOOD
 DRAINAGE IMPROVEMENTS

E.T.W., INC.
 Engineering Utilities, Transportation, and Water
 2822 Remington Green Cir., Suite 202
 TALLAHASSEE, FLORIDA 32308
 PHONE: (850) 383-0400
 www.etwinc.com
 Certificate of Authorization #9961

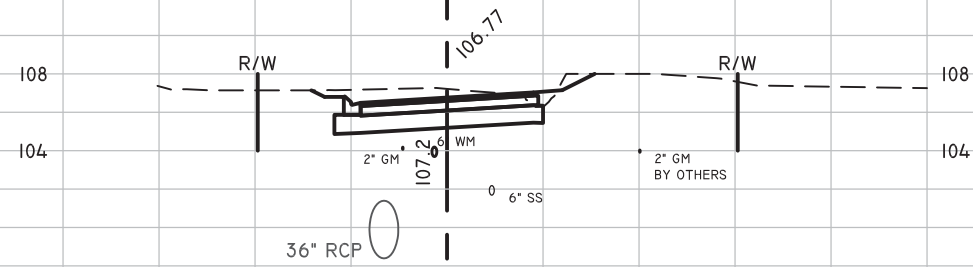
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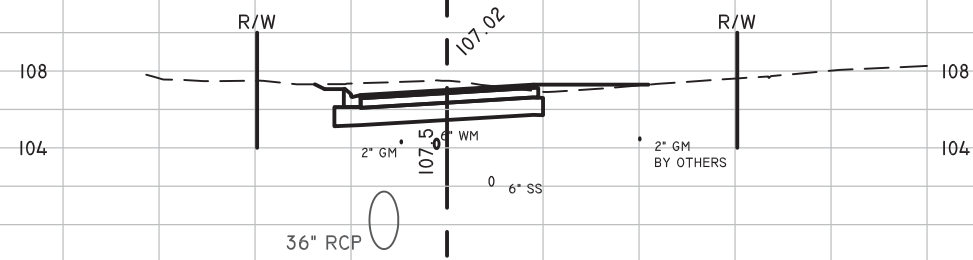
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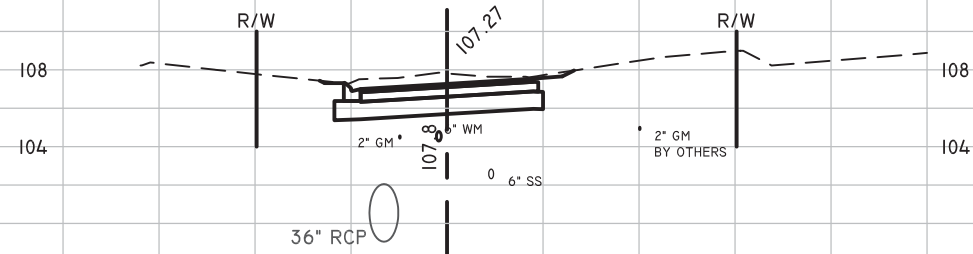
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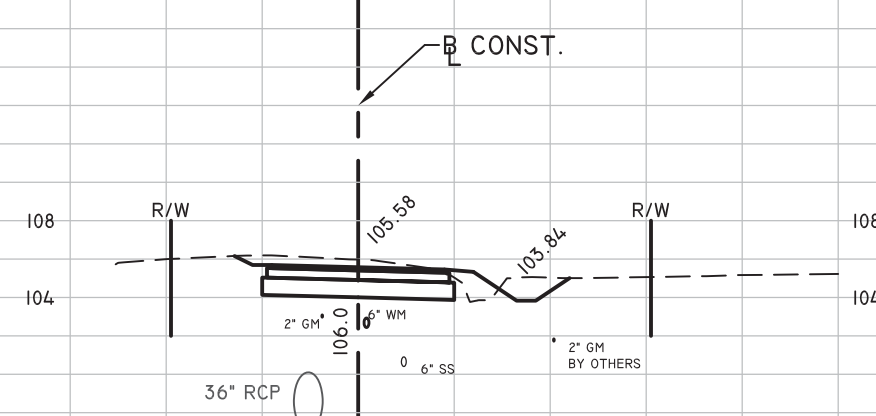


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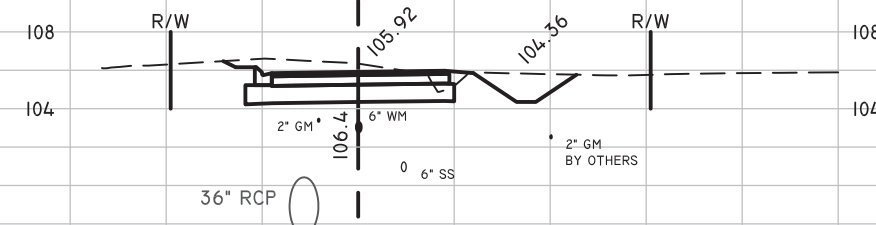


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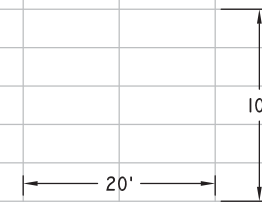
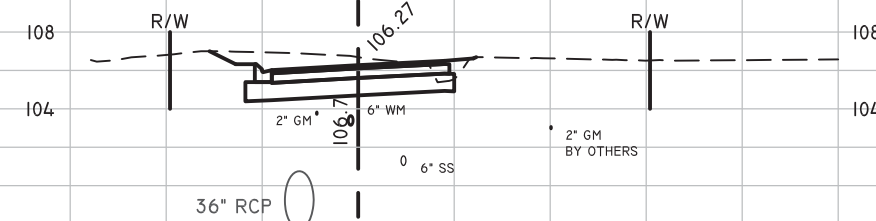
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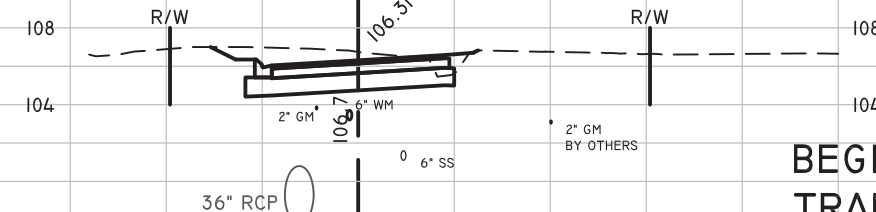
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31+60



31+56.90



BEGIN SUPER TRANSITION

-20 20 40

ENGINEER OF RECORD
LANE P. LUCAS, P.E.
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2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53936

ORIGINAL
REVISIONS:
1
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5

SHEET
PROJECT
GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS
CROSS SECTIONS
FOREST DRIVE

PROJECT
GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS

Eduw, Inc.
Engineering Utilities, Transportation, and Water
2822 Remington Green Cir., Suite 202
Tallahassee, FL 32308
PHONE: (850) 383-0400
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JOB NO. _____
DRAWN _____
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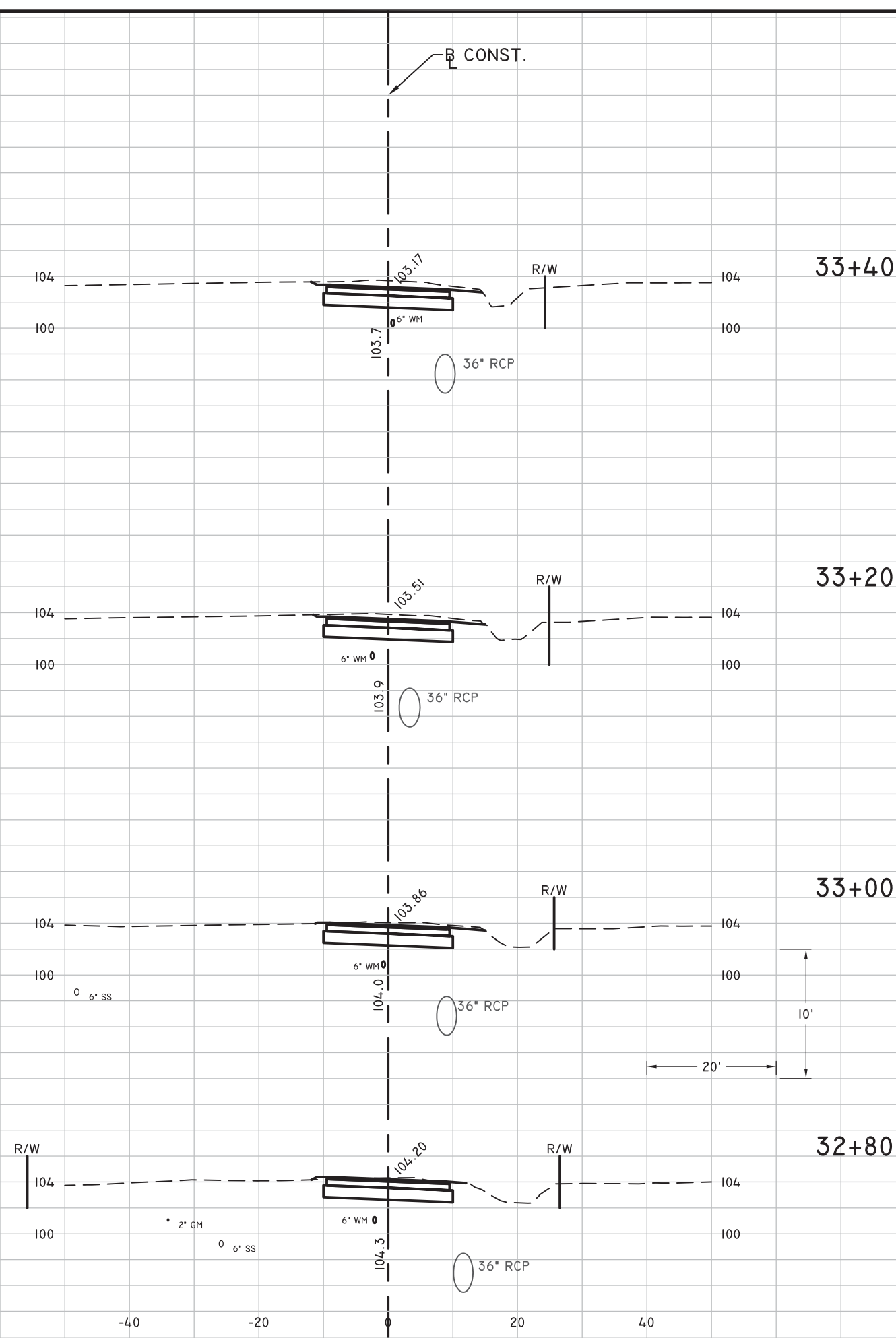
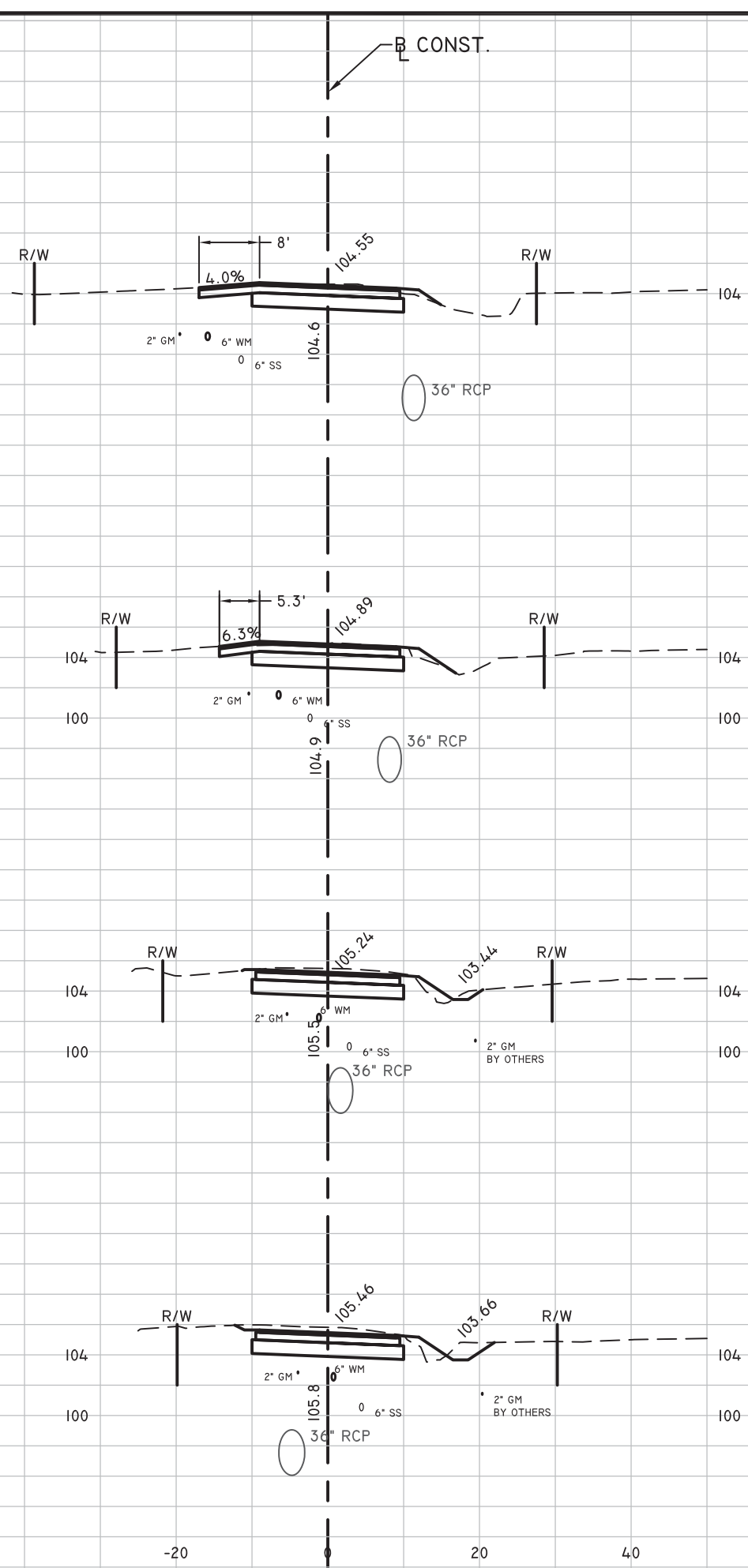
END SUPER
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32+06.90

32+20

32+40

32+60



ENGINEER OF RECORD
LANE P. LUCAS, P.E.
2222 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53596

REVISIONS:

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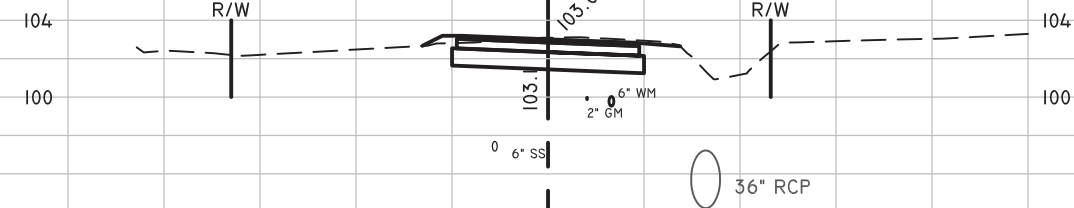
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GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS
CROSS SECTIONS
FOREST DRIVE

ENGINEERING UTILITIES, TRANSPORTATION, AND WATER
2222 Remington Green Cir., Suite 202
Tallahassee, Florida 32308
PHONE: (850) 383-0400
WWW.ENTAWINC.COM
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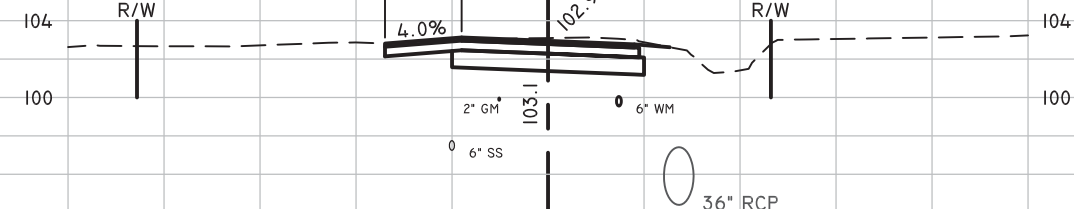
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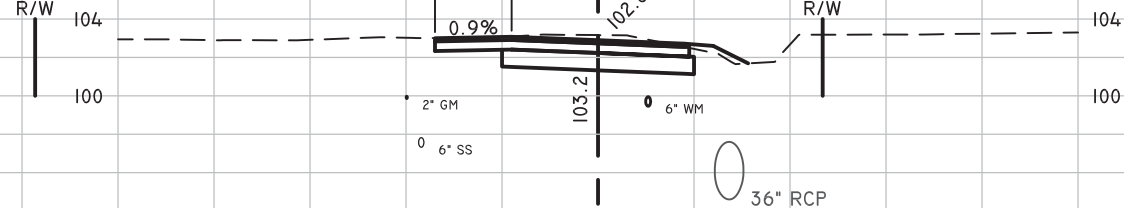
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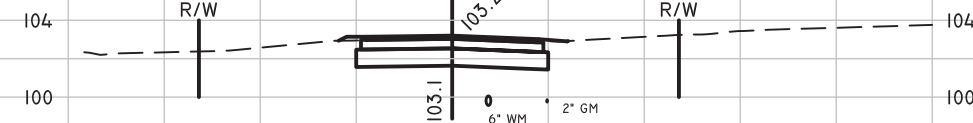
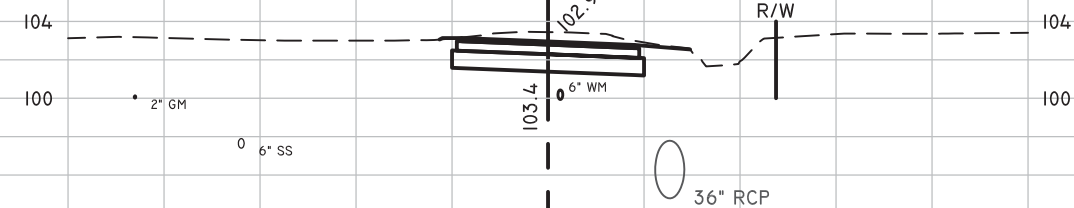
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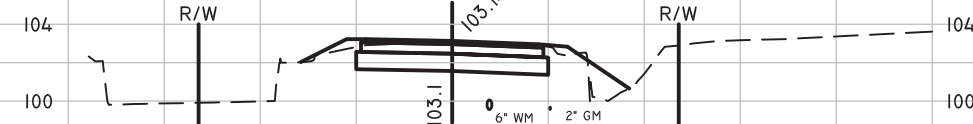
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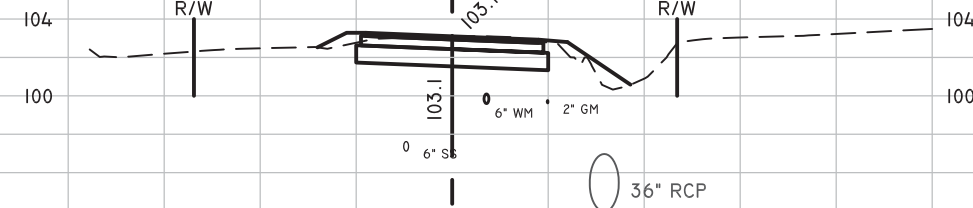
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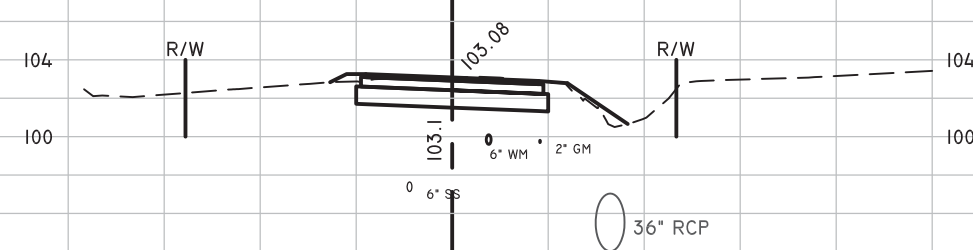
34+80



34+60



34+46.91
BEGIN SUPER
TRANSITION



34+40

-40 -20 20 40

-40 -20 20 40

20'

10'

ENGINEER OF RECORD
LANE P. LUCAS, P.E.
Eduw, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53596

ORIGINAL	REVISIONS:
1	1
2	2
3	3
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SHEET
PROJECT
GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS
CROSS SECTIONS
FOREST DRIVE

PROJECT
GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS

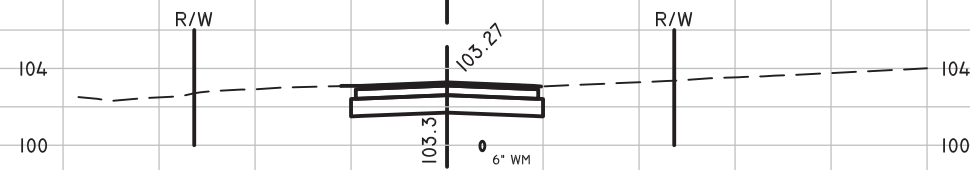
Eduw, Inc.
Engineering Utilities, Transportation, and Water
2822 Remington Green Cir., Suite 202
Tallahassee, FL 32308
PHONE: (850) 383-0400
www.eduwinc.com
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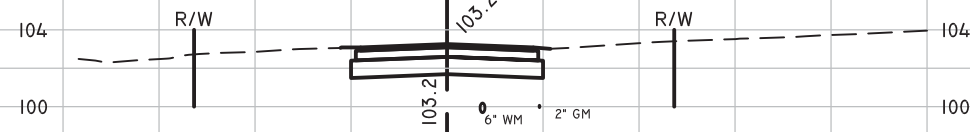
END ROADWAY
RECONSTRUCTION

35+00



END SUPER
TRANSITION

34+96.91



-40 -20 0 20 40

20'

10'

B CONST.

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ENGINEER OF RECORD
 LANE P. LUCAS P.E.
 EITW, Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53596

ORIGINAL	REVISIONS:
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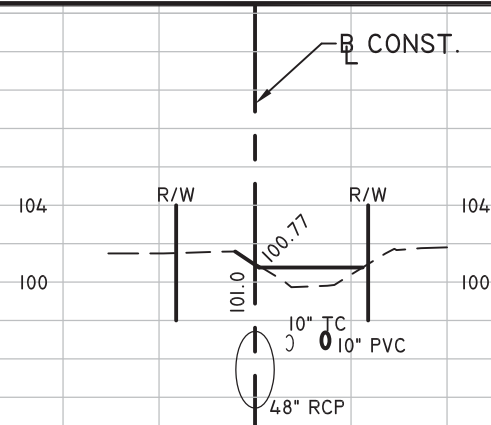
PROJECT
 GLENDALE NEIGHBORHOOD
 DRAINAGE IMPROVEMENTS

EITW, INC.
 Engineering Utilities, Transportation, and Water
 2822 Remington Green Cir., Suite 202 PHONE: (850) 383-0400
 TALLAHASSEE, FLORIDA 32308 www.eitwine.com
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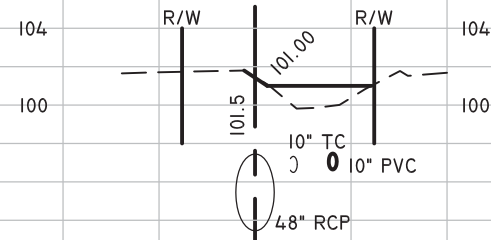
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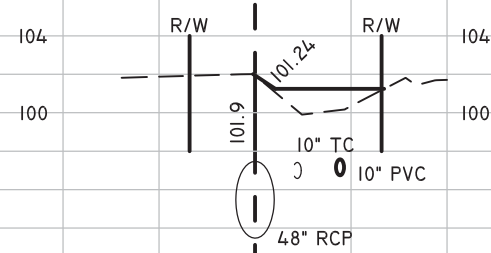
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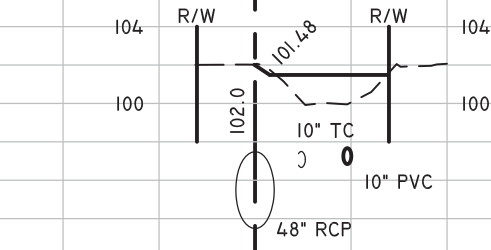
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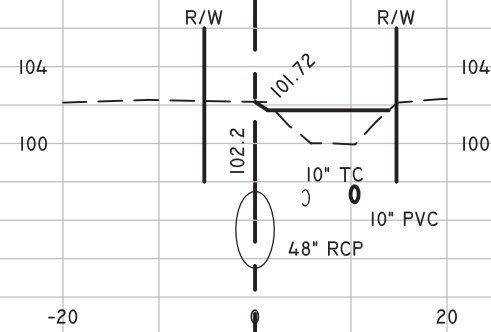
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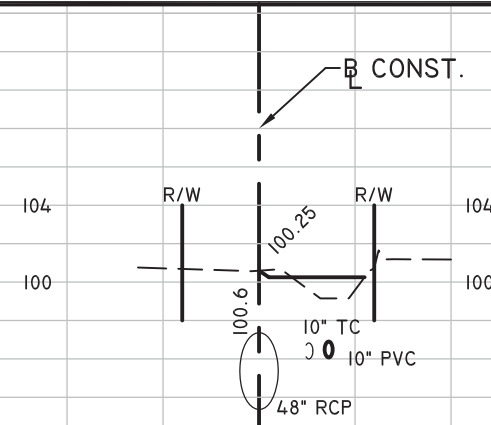
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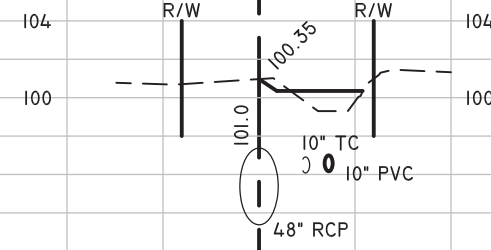
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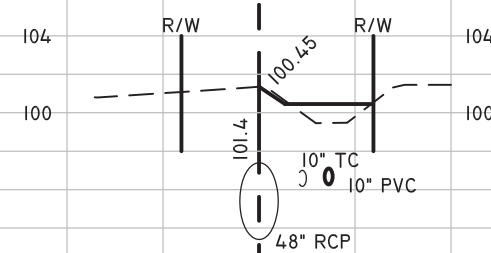
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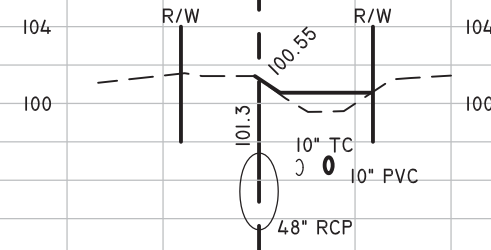
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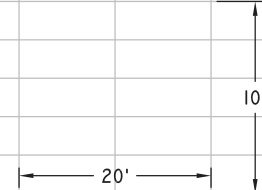
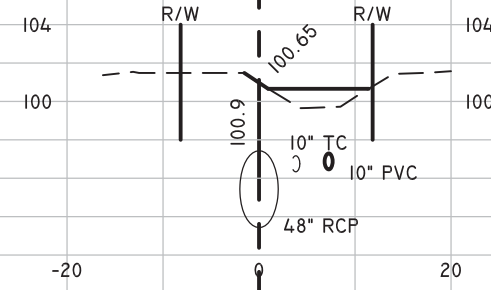
2+00



1+80



1+60



ENGINEER OF RECORD
 LANE P. LUCAS, P.E.
 EITW, Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53936

ORIGINAL _____

REVISIONS:

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CROSS SECTIONS
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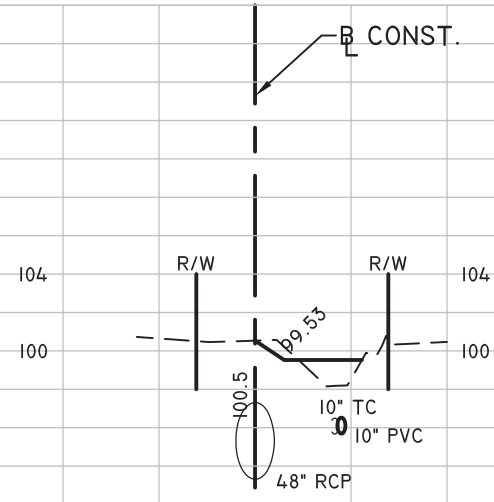
PROJECT
 GLENDALE NEIGHBORHOOD
 DRAINAGE IMPROVEMENTS

EITW, INC.
 Engineering Utilities, Transportation, and Water
 2822 Remington Green Cir., Suite 202
 Tallahassee, FL 32308
 PHONE: (850) 383-0400
 www.eitwinc.com
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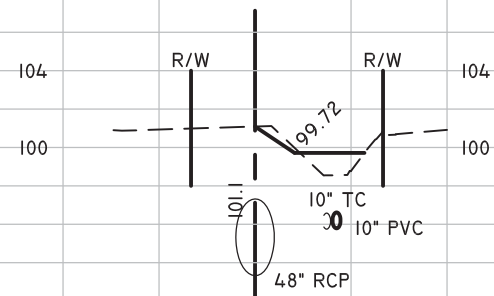
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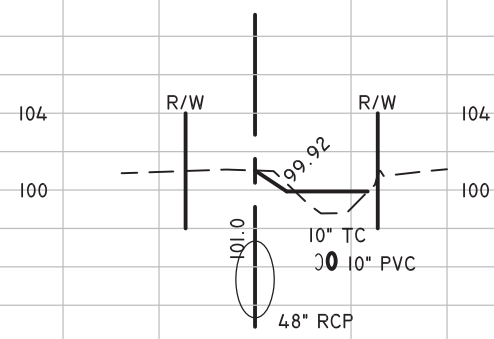
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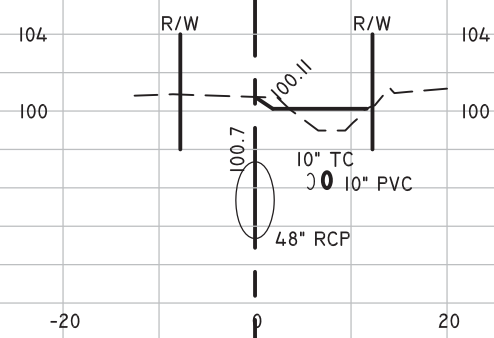
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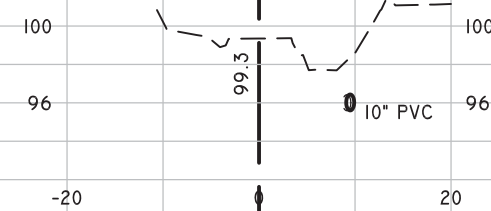
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2+60

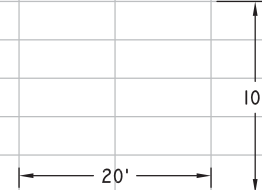


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ENGINEER OF RECORD
 LANE P. LUCAS P.E.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53596

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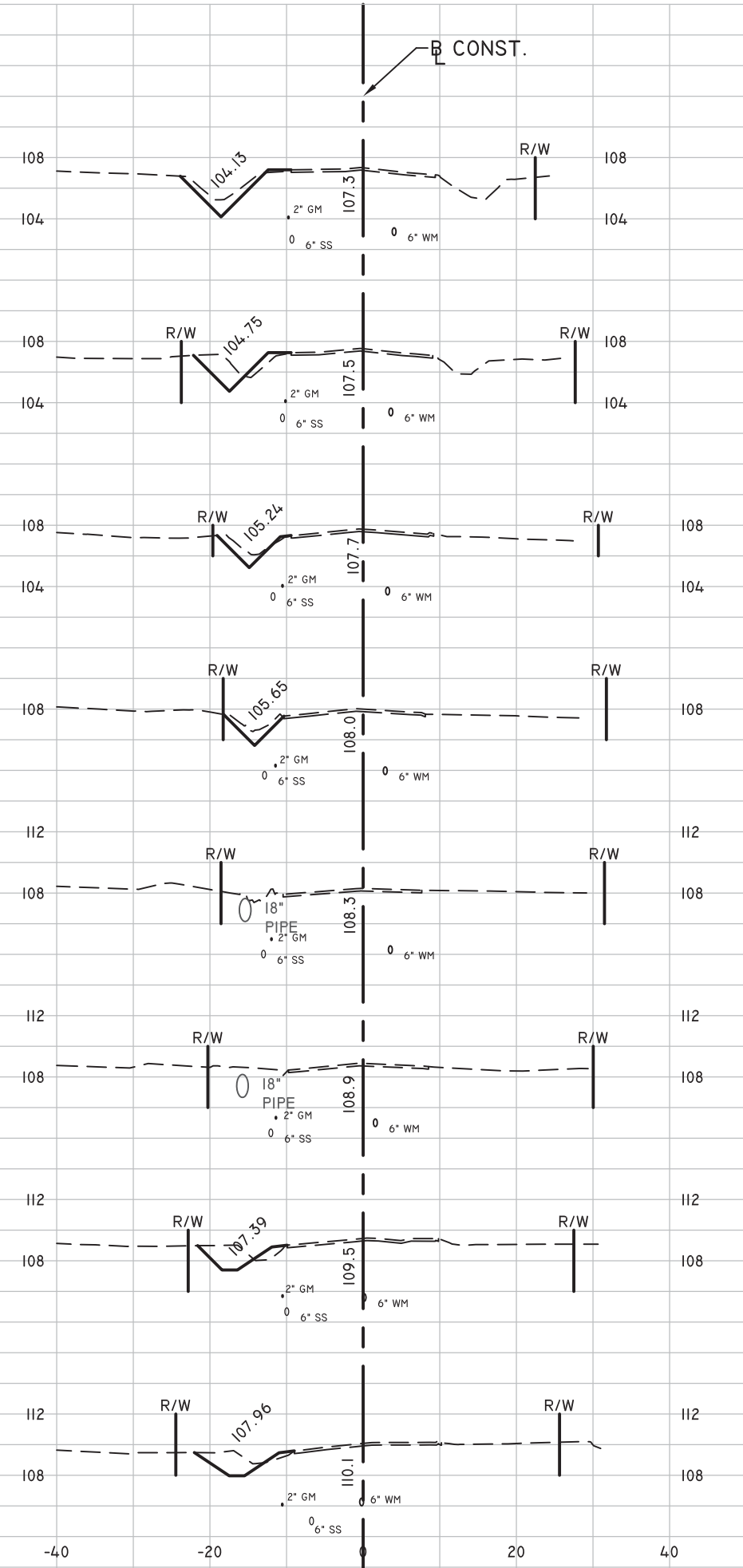
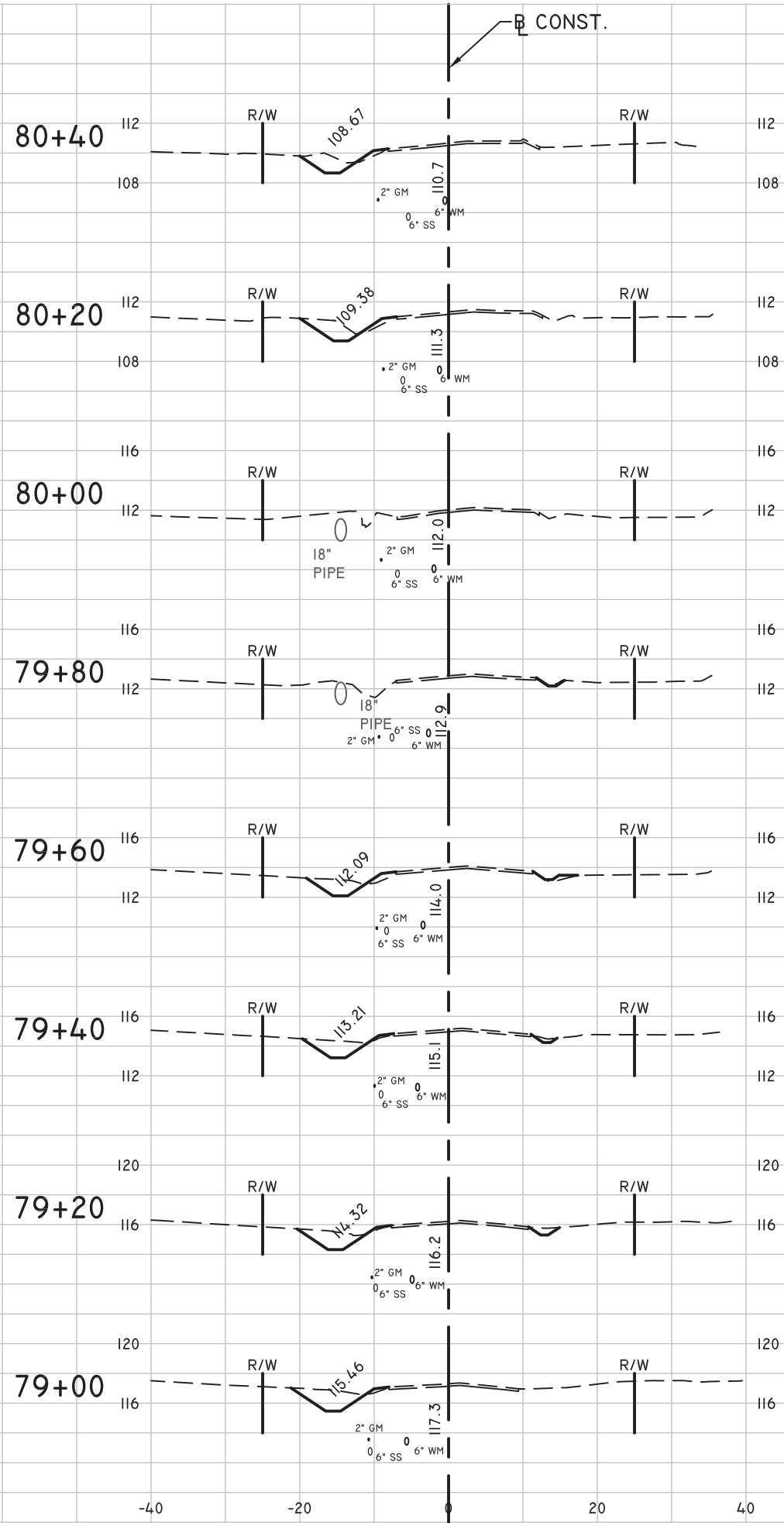
CROSS SECTIONS
 OUTFALL

PROJECT
 GLENDALE NEIGHBORHOOD
 DRAINAGE IMPROVEMENTS

ETAW, INC.
 Engineering Utilities, Transportation, and Water
 2822 Remington Green Cir., Suite 202 PHONE: (850) 383-0400
 TALLAHASSEE, FLORIDA 32308 www.etawinc.com
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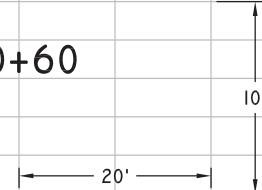
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ENGINEER OF RECORD
LANE P. LUCAS, P.E.
EITW, Inc.
2822 Remington Green Circle
Tallahassee, FL 32308
P.E. NO. 53596

REVISIONS:

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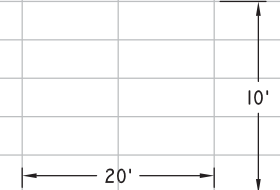
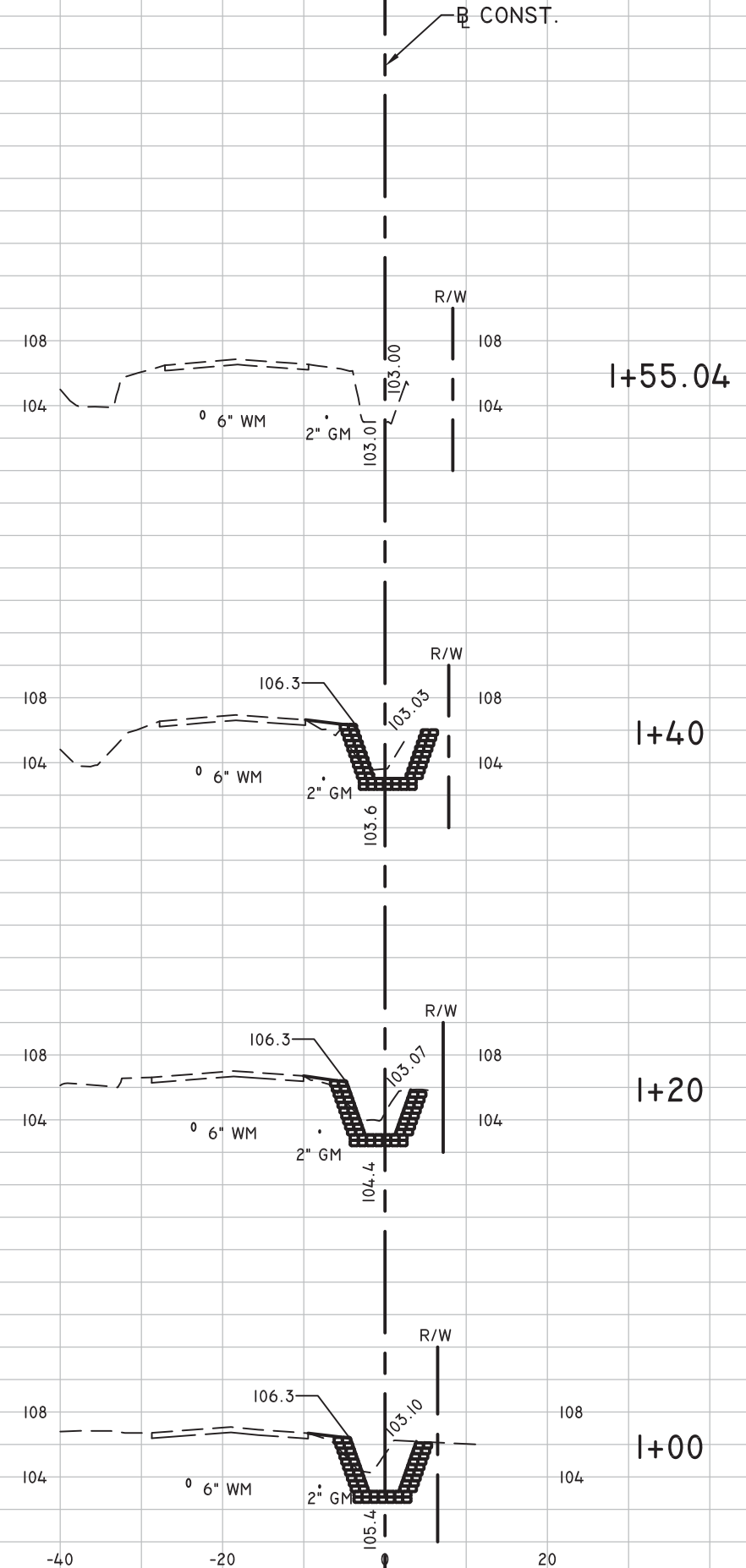
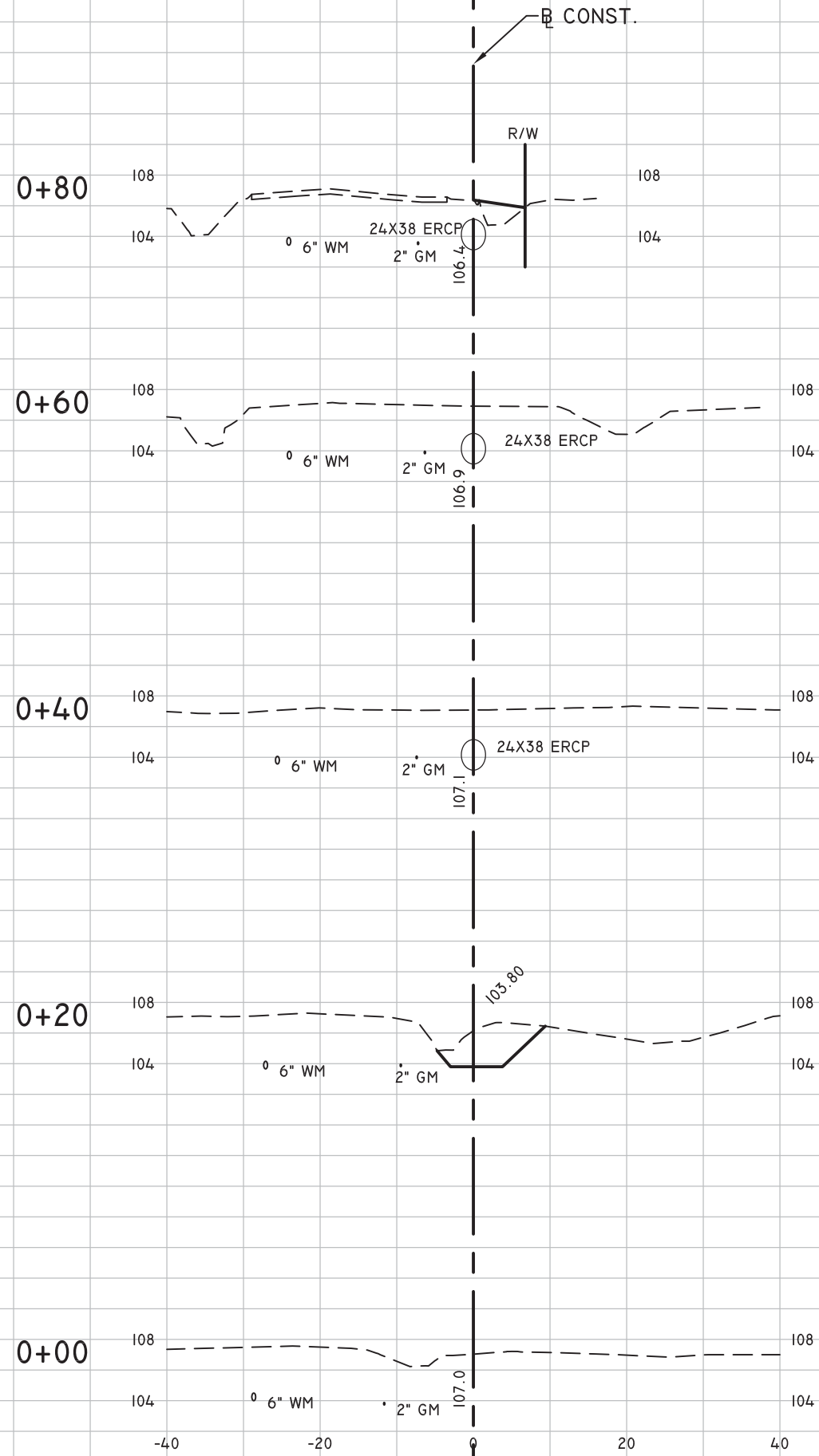
SHEET
PROJECT
CROSS SECTIONS
LAUREL STREET

PROJECT
GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS

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 LANE P. LUCAS, P.E.
 EITW, Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53936

ORIGINAL _____

REVISIONS:

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CROSS SECTIONS
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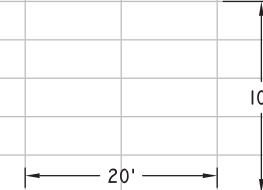
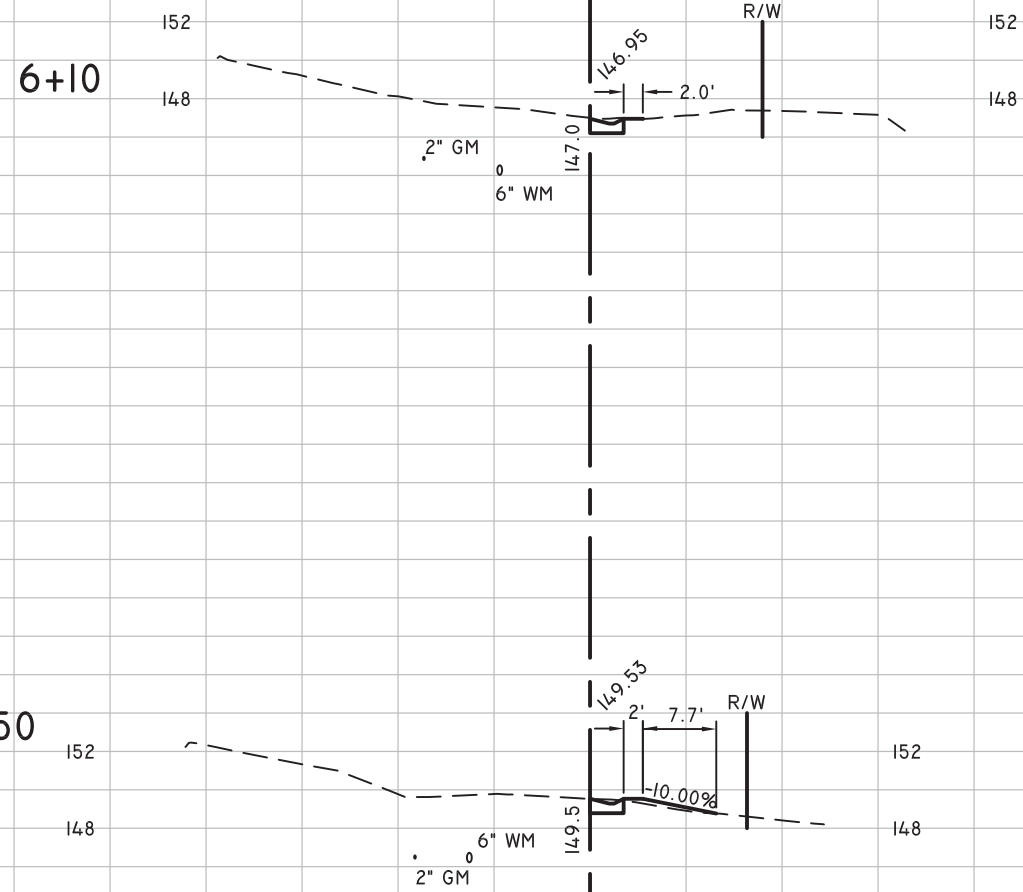
PROJECT

GLENDALE NEIGHBORHOOD
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ENGINEER OF RECORD
 LANE P. LUCAS P.E.
 Etlaw, Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53596

ORIGINAL _____

REVISIONS:

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PROJECT
 GLENDALE NEIGHBORHOOD
 DRAINAGE IMPROVEMENTS

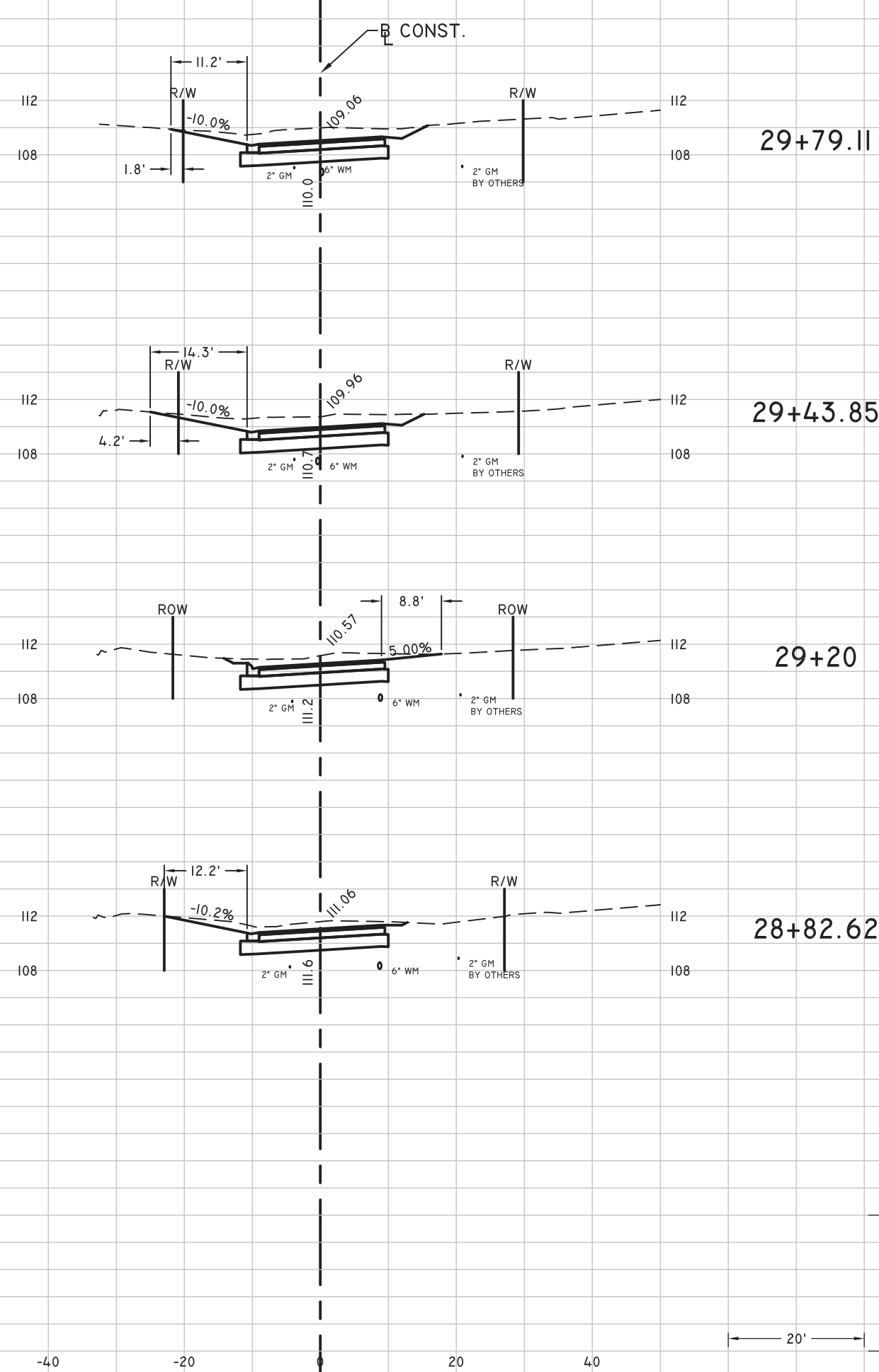
DRIVEWAY
 PROFILES
 NW FOREST DF.

ENGINEERING UTILITIES, TRANSPORTATION, AND WATER
 2822 Remington Green Cir., Suite 202
 Tallahassee, Florida 32308
 PHONE: (850) 383-0400
 www.etlawinc.com

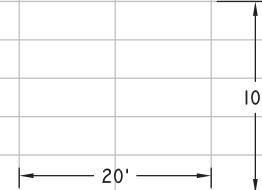
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ENGINEER OF RECORD
 LANE P. LUCAS, P.E.
 EITW, Inc.
 2822 Remington Green Circle
 Tallahassee, FL 32308
 P.E. NO. 53936

ORIGINAL _____

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SHEET

DRIVEWAY PROFILES
 FOREST DRIVE

PROJECT

GLENDALE NEIGHBORHOOD
 DRAINAGE IMPROVEMENTS

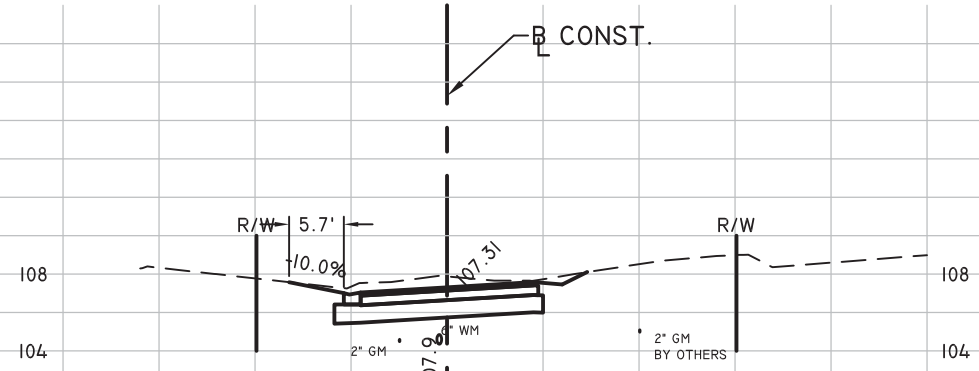
EITW, INC.
 Engineering Utilities, Transportation, and Water
 2822 Remington Green Cir., Suite 202 PHONE: (850) 383-0400
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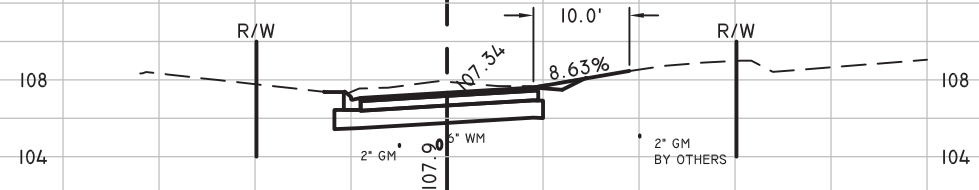
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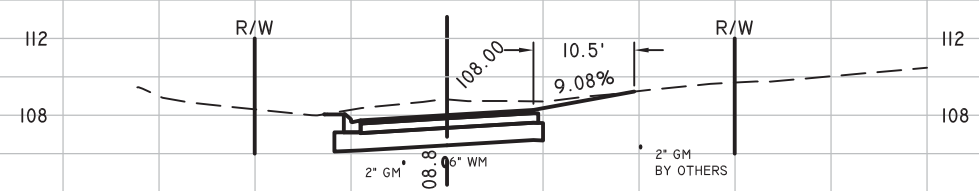
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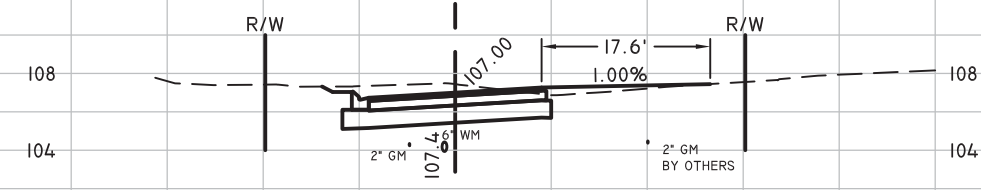
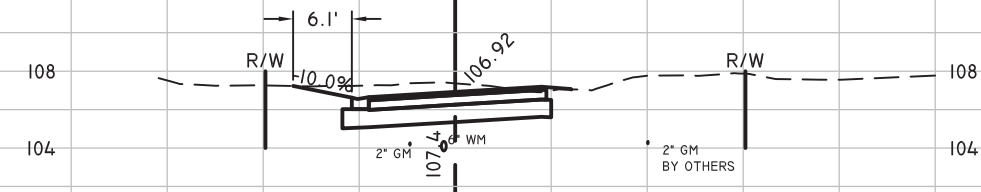
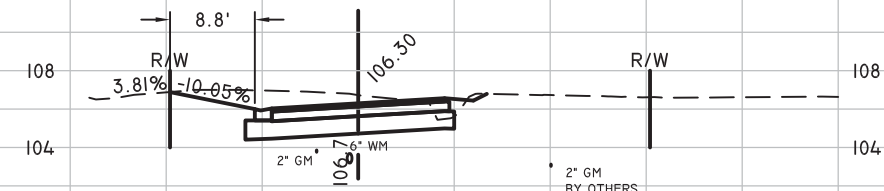
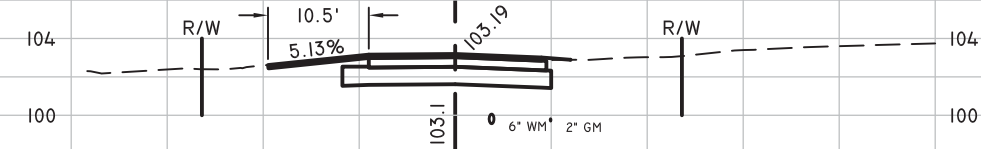
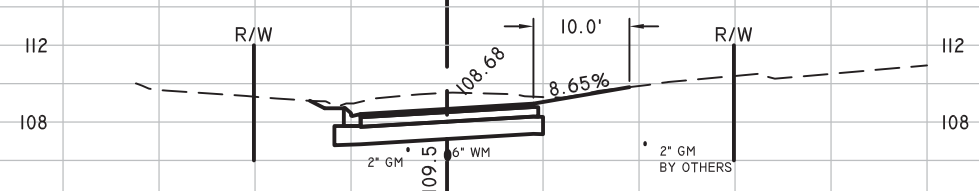
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30+20.75



29+93.89



-40 -20 0 20 40

-40 -20 0 20 40

20'

10'

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Eduw, Inc.
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P.E. NO. 53936

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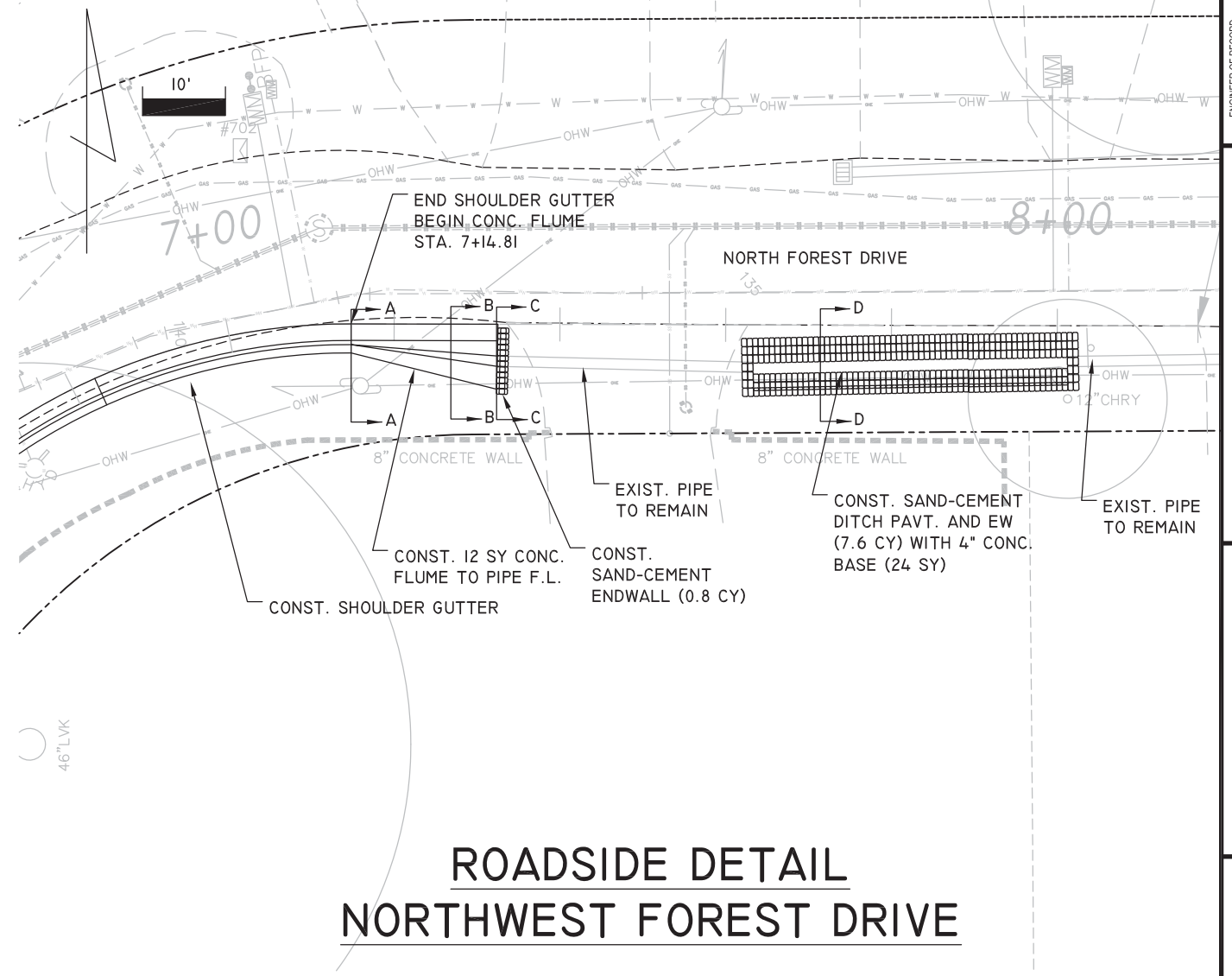
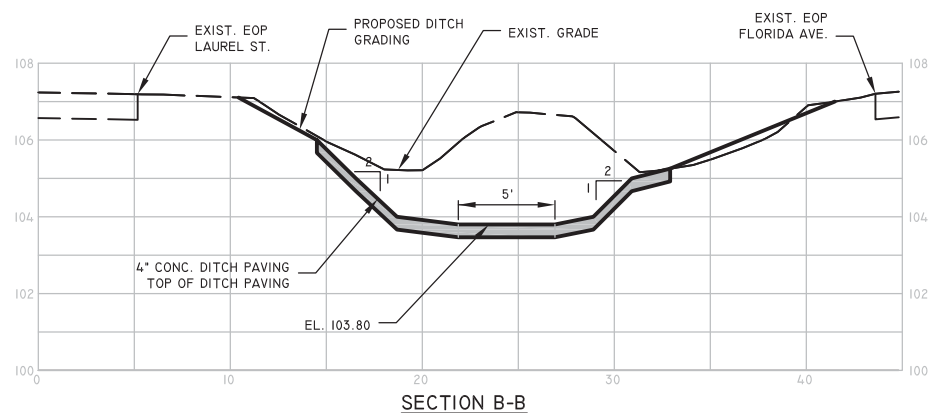
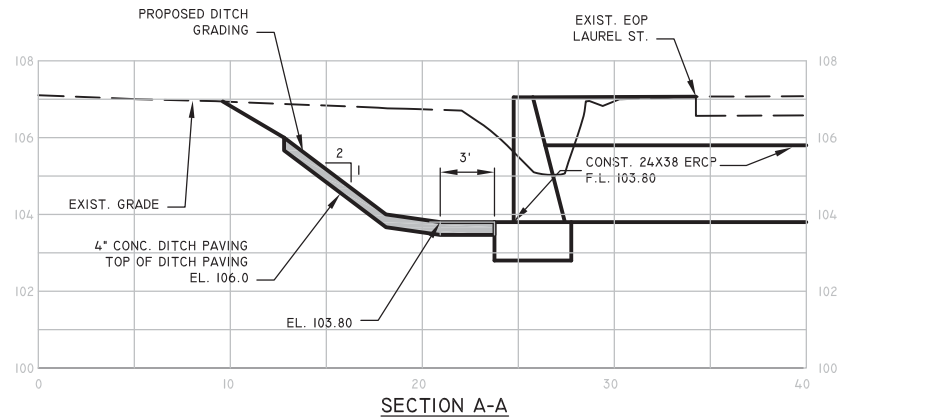
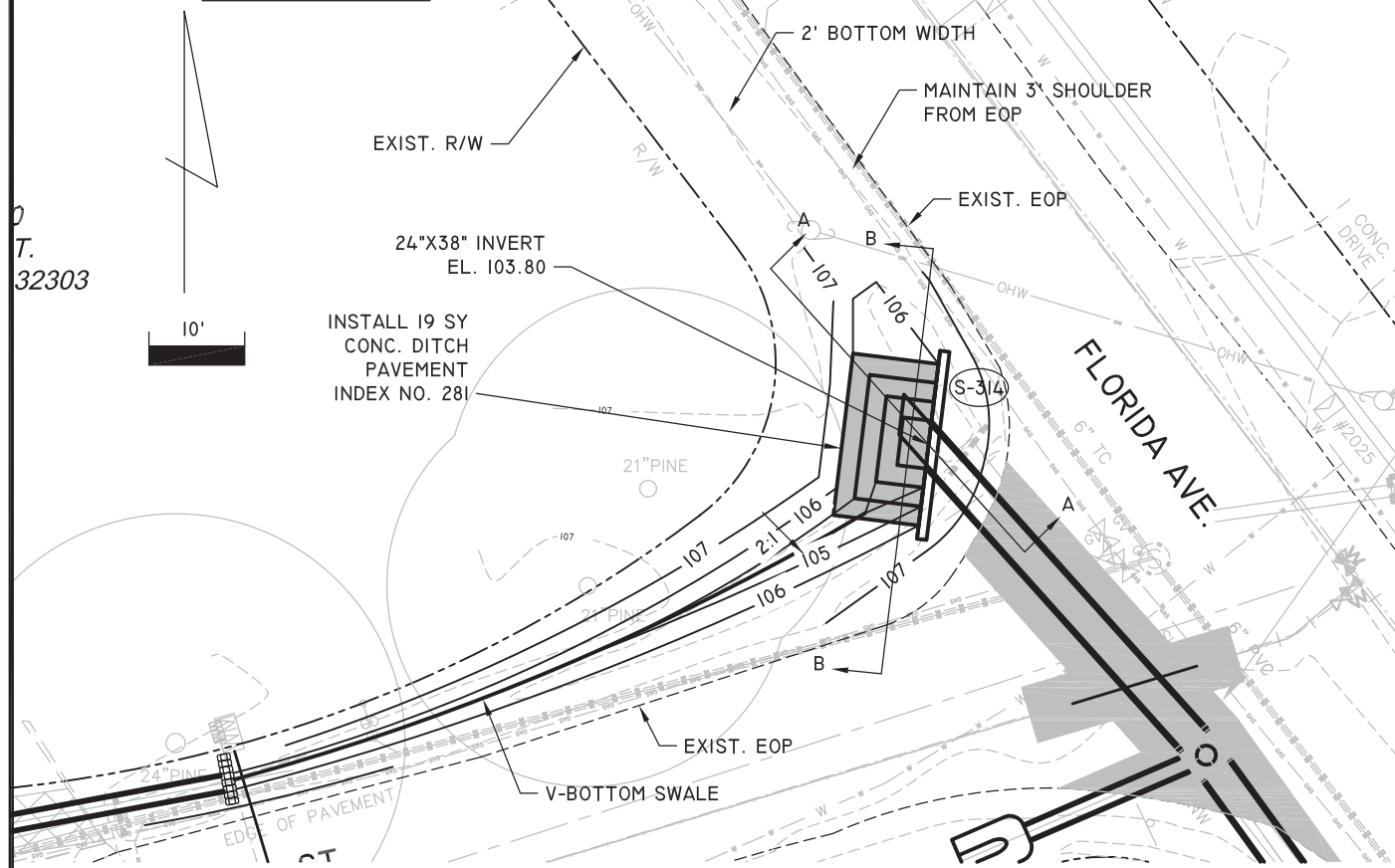
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PROFILES
FOREST DRIVE

PROJECT
GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS

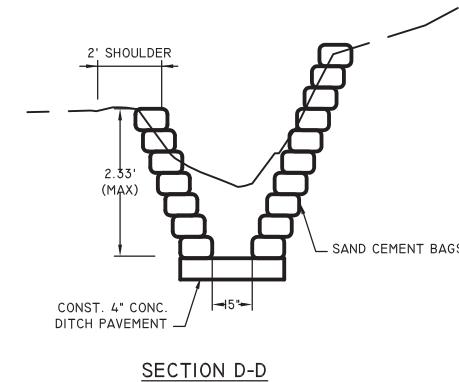
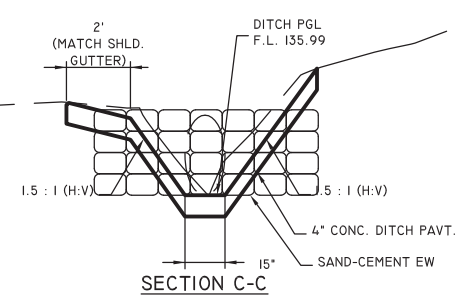
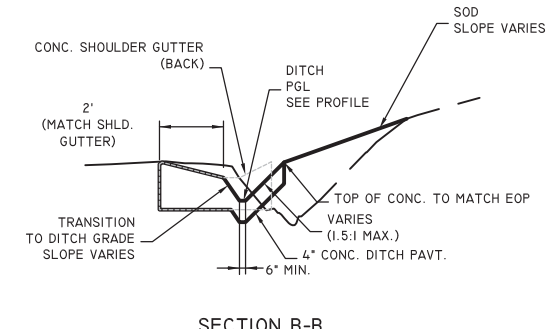
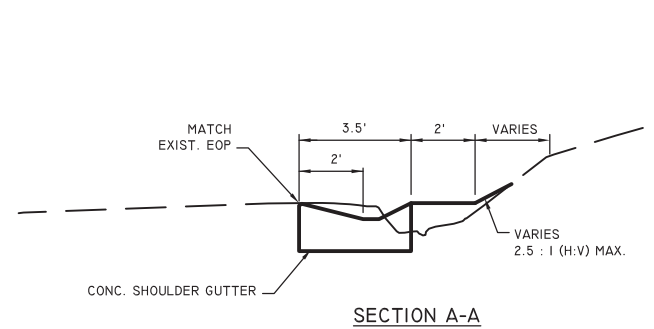
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Tallahassee, Florida 32308
PHONE: (850) 383-0400
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GRADING DETAIL AT S-314



ROADSIDE DETAIL NORTHWEST FOREST DRIVE



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Eutaw, Inc.
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SPECIAL DETAILS

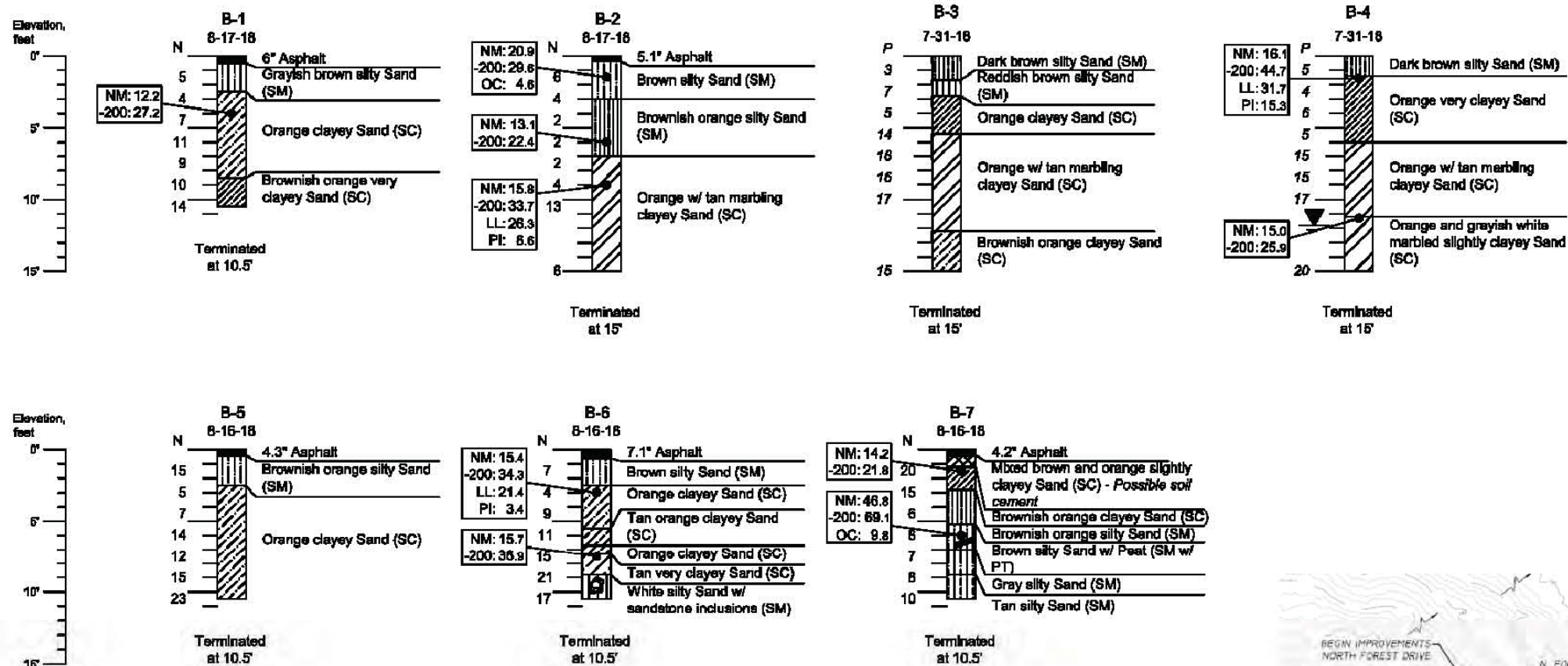
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DRAINAGE IMPROVEMENTS

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Soil Boring Profiles and Locations



LEGEND

N - Standard Penetration Test "N-value". Number of blows from 140-pound hammer to advance sampler last 12" of 18" drive.

P - Dynamic Cone Penetrometer (DCP) "P-value". Number of blows from 15-pound rammer to advance cone tip 1.75".

NM - Natural Moisture Content, %.

-200 - Finer than # 200 sieve, %.

OC - Organic Content (weight basis), %.

LL - Liquid Limit, %.

PI - Plastic Index (LL - Plastic Limit), %.

(SC) - Unified Soil Classification System, clayey sand (typical).

- Groundwater level, if determined.

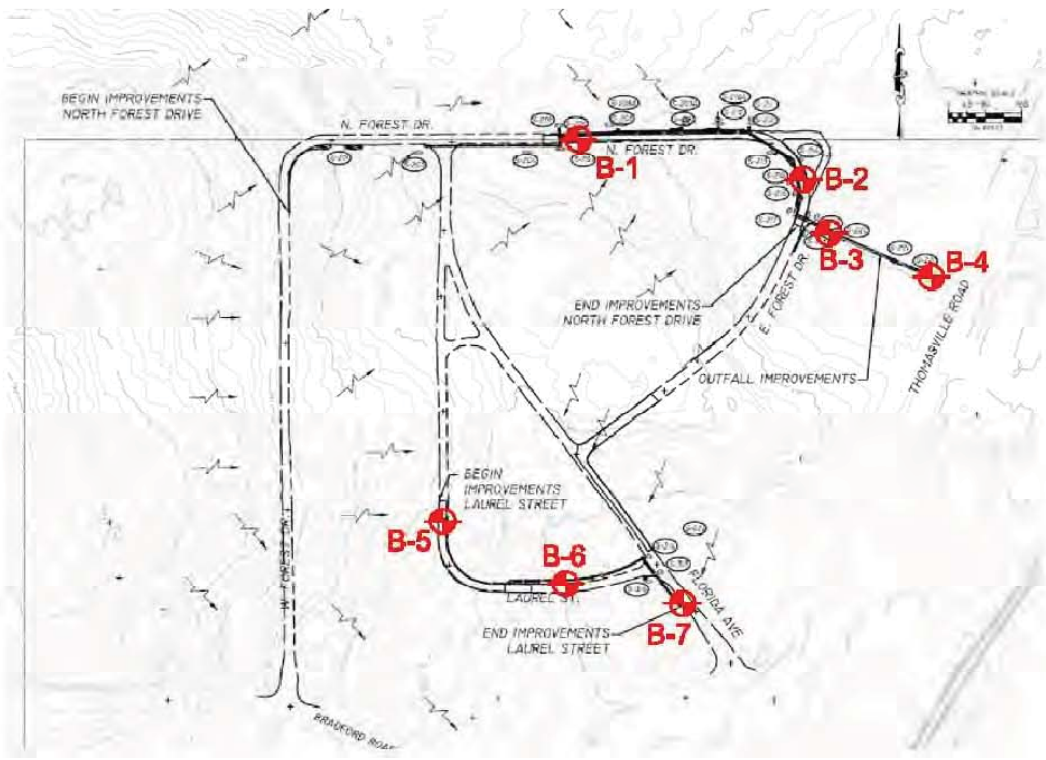
NOTES

- Although the borings represent the subsurface conditions at their respective locations, it should be understood that significant differences could exist between borings.
- Borings B-3 and B-4 were conducted with hand operated augers in accord with ASTM D 1452 and supplemented with readings from a dynamic cone penetrometer device in accordance with ASTM Special Technical Publication #399. All other borings were performed with a Simco model 2800 drill rig in accordance with the ASTM D 1586 (the Standard Penetration Test).

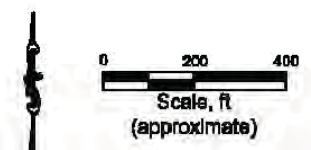
Penetration Resistance and Soil Properties on Basis of Standard Penetration Test

Sands (Fairly Reliable)		Clays (Rather Unreliable)	
Number of Blows per foot, N	Relative Density	Number of Blows per foot, N	Consistency
0-4	Very loose	Below 2	Very soft
4-10	Loose	2-4	Soft
10-30	Medium	4-8	Medium
30-60	Dense	8-15	Stiff
Over 60	Very dense	16-30	Very stiff
		Over 30	Hard

1- Table 5.3 from Peck, Hanson, Thornburn, *Foundation Engineering*, 2nd Edition, 1973



Drawing source:
Eutaw - Overview Plan



Alpha Geotechnical and Testing Services, Inc.
 Certificate of Authorization No. 09987967
 4778-B Woodlane Circle
 Tallahassee, FL 32303
 (850) 514-4171 Fax: 514-4173

Stephen P. Shanley, PE
 FL #40653
 September 10, 2018

Subsurface Exploration and Geotechnical Evaluation for Pavement and Utility Improvements, Glendale Neighborhood, Tallahassee, FL

Figure 1

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PROJECT: GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

SHEET: SOIL SURVEY

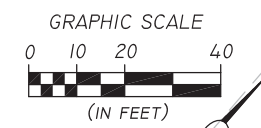
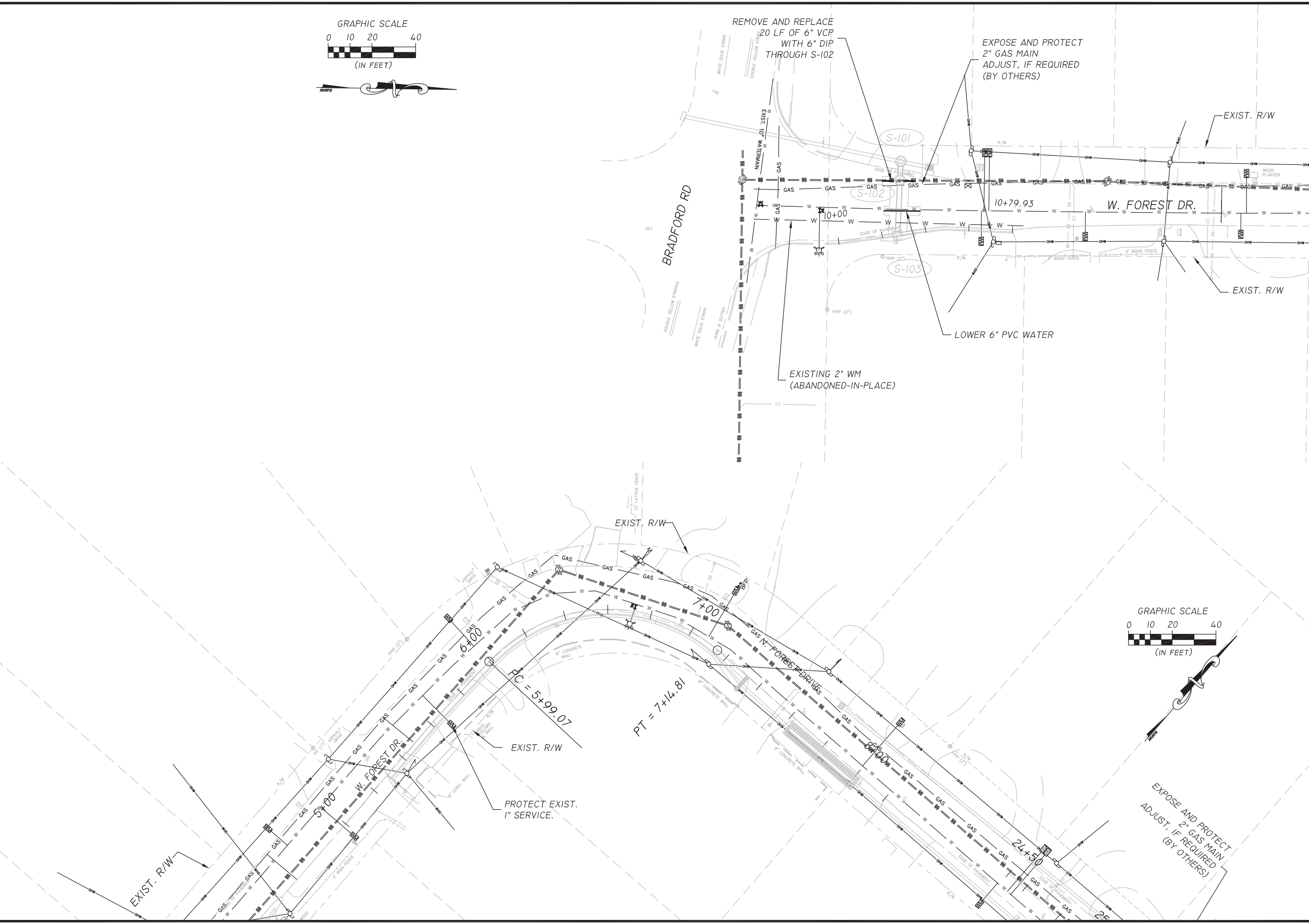
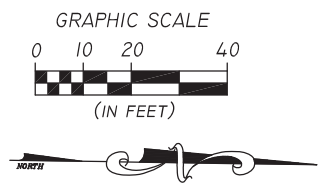
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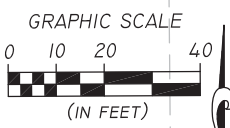
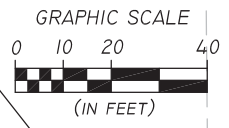
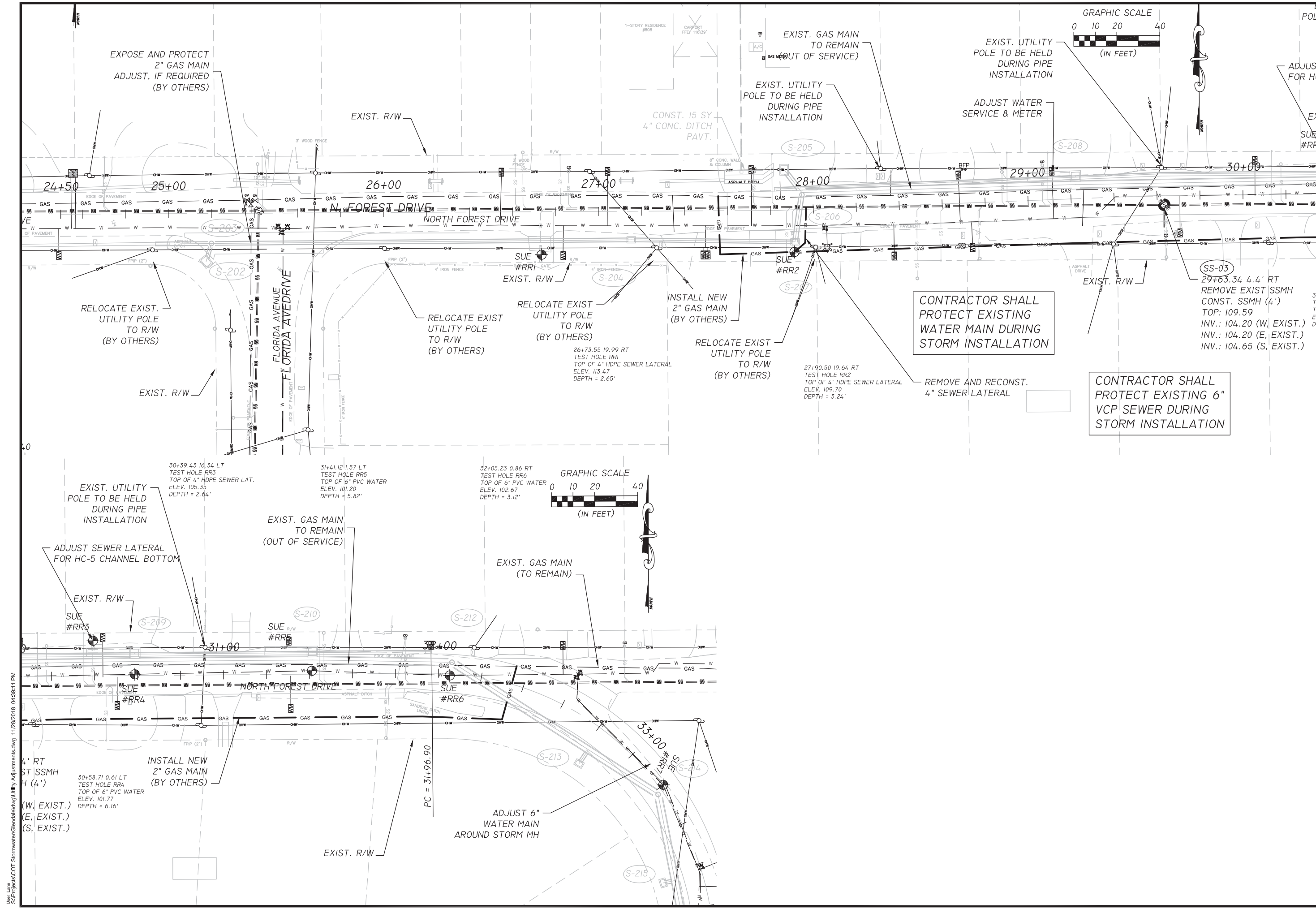
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UTILITY
ADJUSTMENTS

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GLENDALE NEIGHBORHOOD
DRAINAGE IMPROVEMENTS

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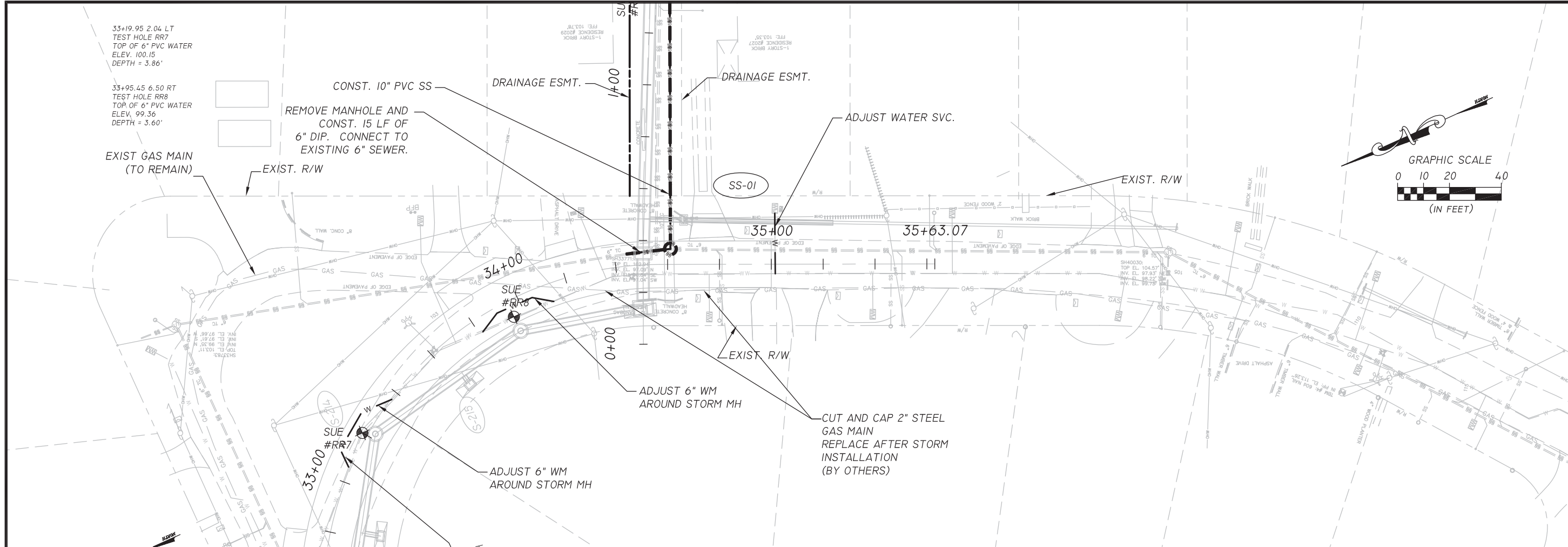
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UTILITY ADJUSTMENTS

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UTILITY
ADJUSTMENTS

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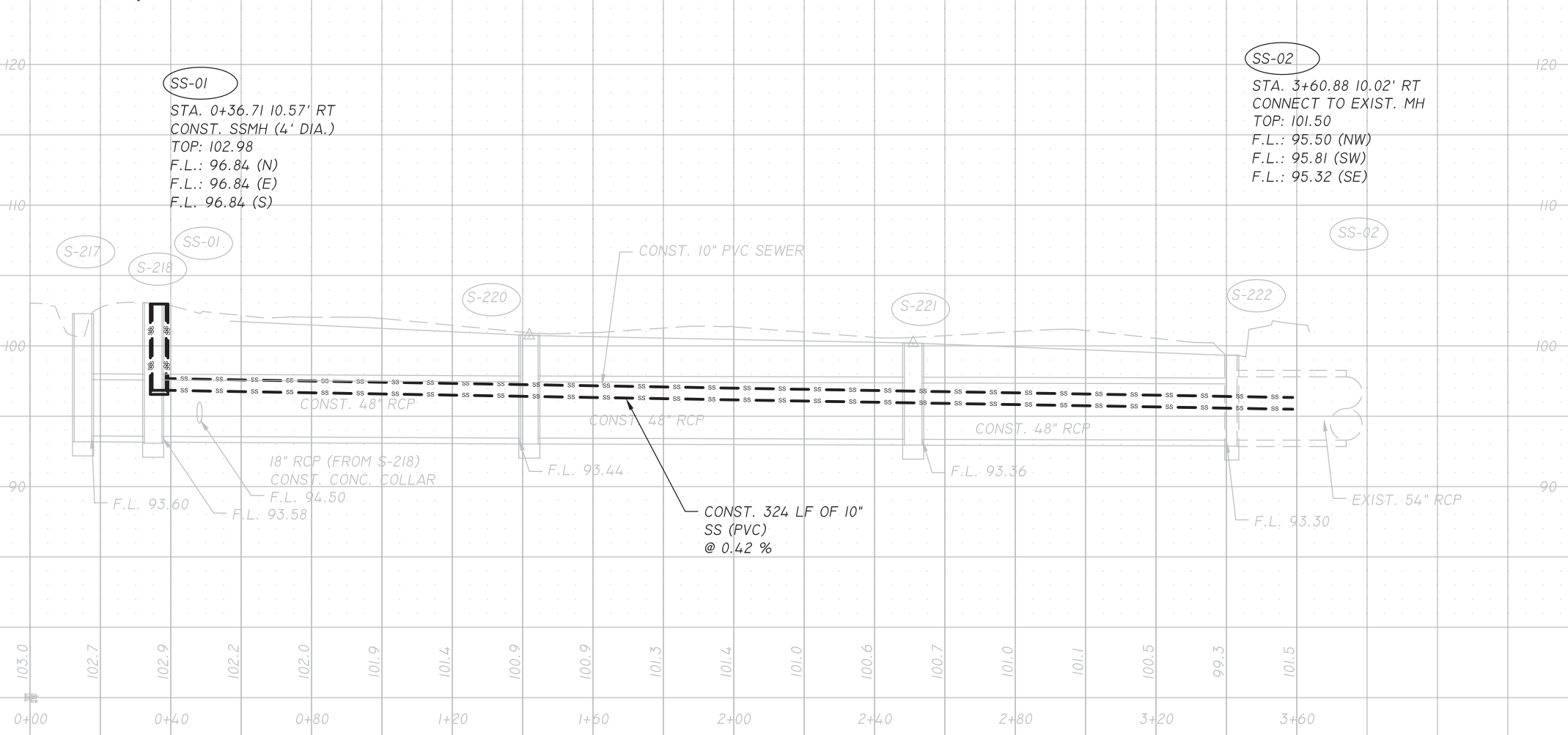
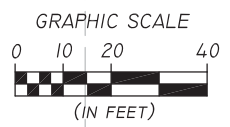
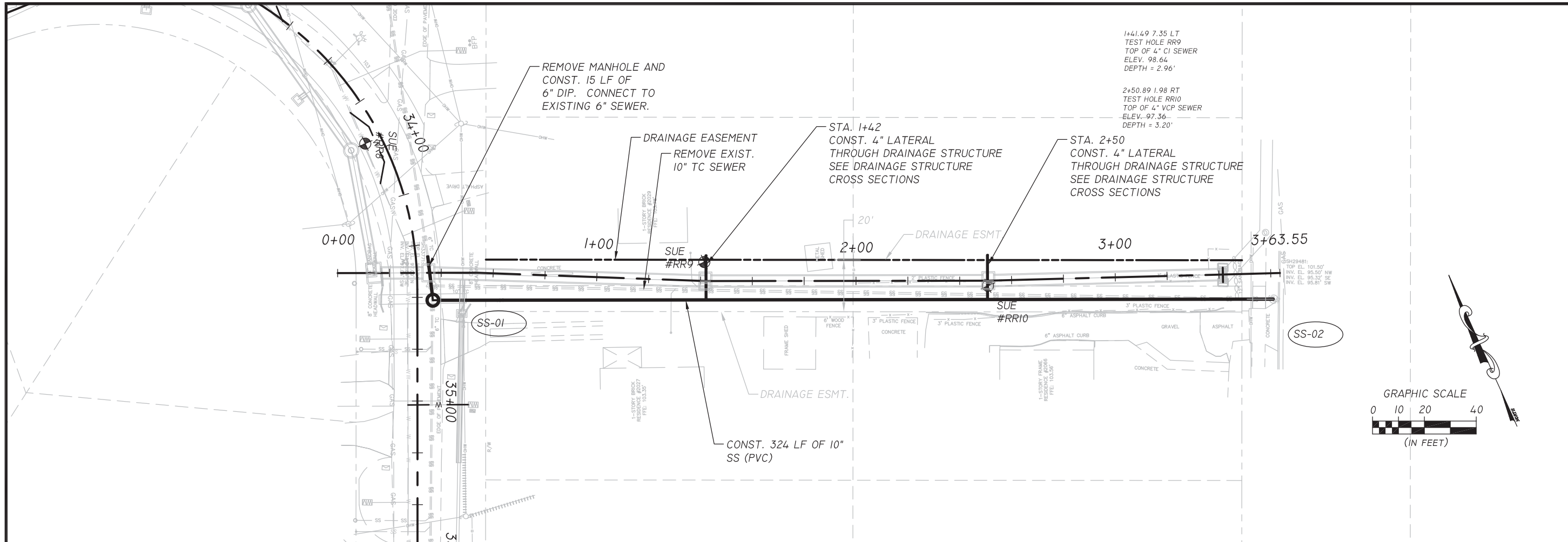
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 Etlaw, Inc.
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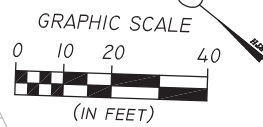
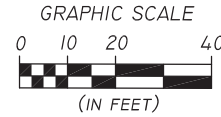
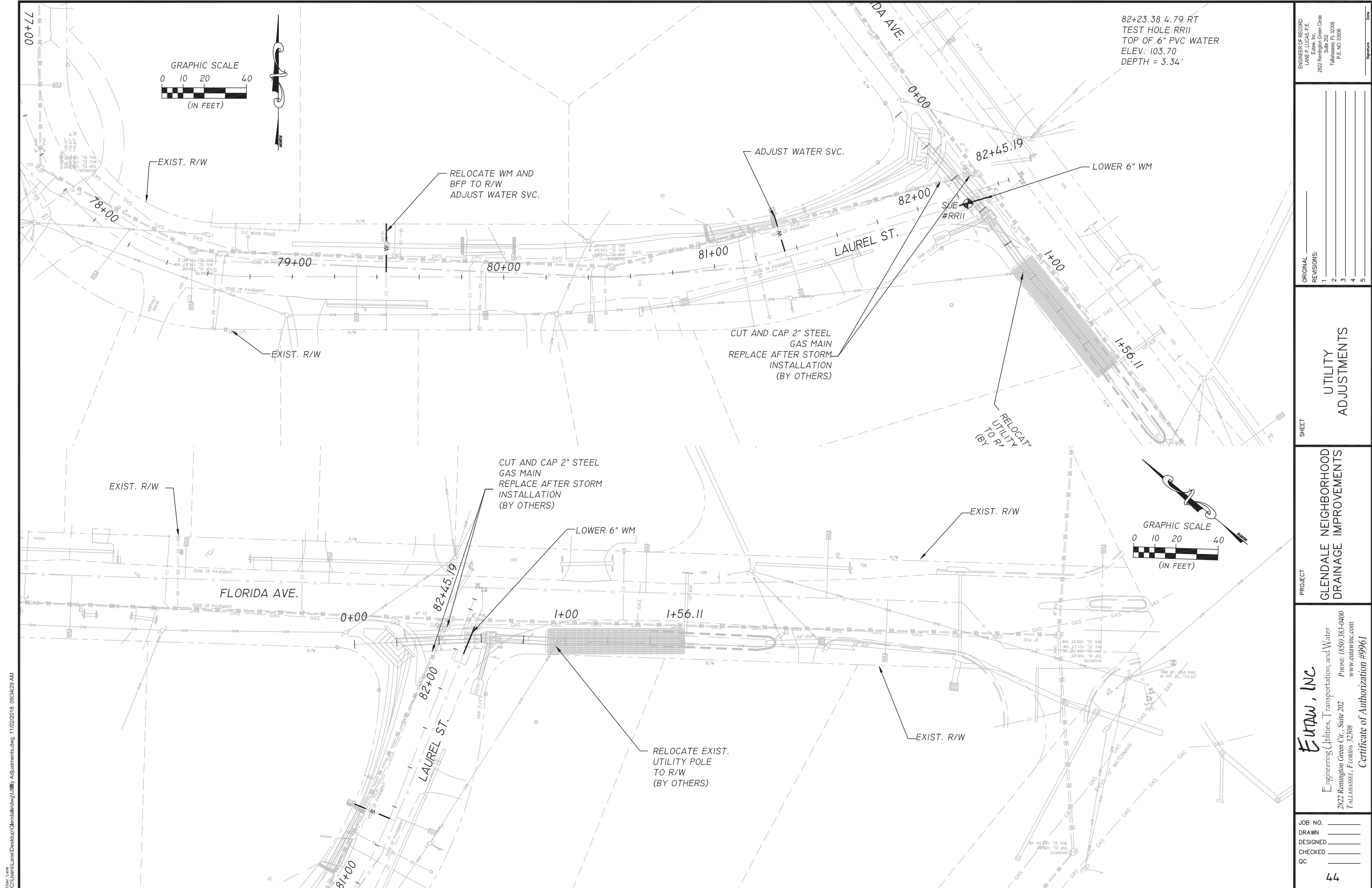
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82+23.38 4.79 RT
TEST HOLE-RR11
TOP OF 6" PVC WATER
ELEV. 103.70
DEPTH = 3.34'

ENGINEER OF RECORD
LANE P. LUCAS P.E.
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Tallahassee, FL 32308
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I. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY:

THE PROJECT CONSISTS OF DRAINAGE IMPROVEMENTS IN AN EXISTING RESIDENTIAL NEIGHBORHOOD TO CONTROL RUNOFF FROM EXISTING DEVELOPMENT. THE MAJOR CONSTRUCTION ACTIVITIES WILL INCLUDE INSTALLATION OF DRAINAGE STRUCTURES AND PIPING, ROADWAY RECONSTRUCTION, CURB INSTALLATION, DITCH GRADING AND STABILIZATION, UTILITY ADJUSTMENTS, AND PERMANENT EROSION CONTROL FEATURES.

B. MAJOR SOIL DISTURBING ACTIVITIES:

CLEARING AND GRUBBING
 DRAINAGE STRUCTURES AND PIPING (REMOVAL AND INSTALLATION)
 ROADWAY RECONSTRUCTION
 DITCH GRADING AND STABILIZATION.

C. AREA ESTIMATES:

TOTAL PROJECT AREA: 1.05 ACRES
 TOTAL AREA TO BE DISTURBED: 1.05 ACRES

D. RUNOFF DATA:

RUNOFF COEFFICIENT (BEFORE CONSTRUCTION): 0.65
 RUNOFF COEFFICIENT (DURING CONSTRUCTION): 0.65
 RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.65

OUTFALL LOCATIONS:

THE PROJECT HAS THREE (3) OUTFALLS. ALL OF WHICH ARE TO EXISTING STORMWATER CONVEYANCE SYSTEMS. ALL OF THESE SYSTEMS DISCHARGE TO THE STORMWATER CONVEYANCE SYSTEM ALONG THOMASVILLE ROAD. THIS SYSTEM DISCHARGES TO THE CITY'S STORMWATER SYSTEM AT MCCORD POND.
 BRADFORD ROAD OUTFALL N 30°20'03.4" W 84°16'15.1"
 SOUTH OUTFALL N 30°28'04.8" W 84°06'06.3"
 NORTH OUTFALL N 30°28'12.3" W 84°16'00.0"

2. CONTROLS

SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:

CONTROLS SHALL BE INSTALLED PRIOR TO ANY EARTH CLEARING ACTIVITIES AND MAINTAINED UNTIL PERMANENT EROSION CONTROL FEATURES HAVE BEEN ESTABLISHED.

A. EROSION AND SEDIMENT CONTROLS

(1) STABILIZATION PRACTICES:
 TEMPORARY SODDING
 TEMPORARY GRASSING
 PERMANENT SODDING OR SEEDING

(2) STRUCTURAL PRACTICES:
 SEDIMENT BARRIER
 INLET PROTECTION SYSTEM
 BERMS
 SEDIMENT TRAPS/BASINS

B. STORMWATER MANAGEMENT

NO STORMWATER MANAGEMENT FACILITIES ARE LOCATED WITHIN THE EXISTING NEIGHBORHOOD.

C. OTHER CONTROLS

(1) WASTE DISPOSAL:
 THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.

(2) OFFSITE VEHICLE TRACKING AND GENERATION OF DUST:
 HAUL ROADS DAMPENED FOR DUST CONTROL
 LOADED HAUL TRUCKS TO BE COVERED WITH TARP
 EXCESS DIRT ON ROADWAY REMOVED DAILY

(3) SANITARY OR SEPTIC WASTE:
 ALL SANITARY WASTE WILL BE COLLECTED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.

(4) FERTILIZER:
 FERTILIZER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.

(5) PESTICIDES:
 THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.

(6) NON-STORM WATER DISCHARGE INCLUDING SPILL REPORTING:
 NO NON-STORM WATER DISCHARGES ARE ANTICIPATED.

3. PERMITS

PERMITS OBTAINED FOR THIS PROJECT ARE LISTED IN THE PROJECT SPECIFICATIONS.

4. MAINTENANCE

ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED FOLLOWING EACH RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS AT THE CONTROLS SHOULD BE REMOVED AFTER EACH STORM EVENT.

THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.

5. INSPECTION

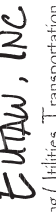
ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER A STORM EVENT WITH 0.50" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION BASED UPON INSPECTION RESULTS. THE CONTROLS SHALL BE REVISED PER THE INSPECTION RESULTS.

ENGINEER OF RECORD
 LANE P. LUCAS P.E.
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SHEET
 STORMWATER POLLUTION PREVENTION PLAN

PROJECT
 GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS


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 Tallahassee, Florida 32308 www.eitwinc.com
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GENERAL NOTES - SEDIMENT AND EROSION CONTROL:

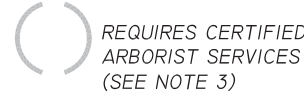
1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PREVENTION, CONTROL, AND ABATEMENT OF EROSION, WATER POLLUTION, AND THE TRANSPORTATION OF ERODED MATERIALS OFF SITE.
2. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A SEDIMENT AND EROSION CONTROL PLAN TO ACCOMPANY THE STORMWATER POLLUTION PREVENTION PLAN AND THE SEDIMENT AND EROSION CONTROL PLAN INCLUDED IN THESE PLANS. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL" AND SHALL BE SPECIFIC TO THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION TO BE EMPLOYED BY THE CONTRACTOR AND SHALL IDENTIFY THE TYPES AND LOCATIONS OF CONTROLS THAT ARE TO BE IMPLEMENTED DURING EACH PHASE OF CONSTRUCTION AS SHOWN ON THE APPROVED CONSTRUCTION SCHEDULE TO MINIMIZE EROSION, PREVENT THE TRANSFER OF ERODED MATERIALS ONTO ANY OFF SITE PARCEL OR INTO ANY RECEIVING WATER, AND PREVENT VIOLATING STATE AND/OR FEDERAL PERMIT REQUIREMENTS. PAYMENT FOR PREPARING AND SUBMITTING THE SEDIMENT AND EROSION CONTROL PLAN AND FOR ANY MODIFICATIONS TO THE SEDIMENT AND EROSION CONTROL PLAN DURING CONSTRUCTION WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION. THE SEDIMENT AND EROSION CONTROL PLAN SHALL DESCRIBE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES:
 - A. TYPES AND LOCATIONS OF ALL EROSION CONTROL DEVICES
 - B. ESTIMATED TIME EROSION CONTROL DEVICES WILL BE IN OPERATION
 - C. METHODS FOR CONTAINMENT OR REMOVAL OF ERODED MATERIALS FROM DISCHARGES RELATED TO DEWATERING OPERATIONS
 - D. METHODS FOR CONTAINMENT OR REMOVAL OF POLLUTANTS OR HAZARDOUS WASTES
 - E. METHODS FOR MAINTENANCE OF EROSION CONTROL DEVICES
 - F. SCHEDULES FOR MONITORING AND MAINTAINING EROSION CONTROL DEVICES
 - G. NAME AND PHONE NUMBERS OF PERSON RESPONSIBLE FOR MONITORING AND MAINTAINING EROSION CONTROL DEVICES
3. NO CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL THE SEDIMENT AND EROSION CONTROL PLAN HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER.
4. THE CONTRACTOR SHALL UPDATE THE SEDIMENT AND EROSION CONTROL PLAN WHENEVER THERE IS A CHANGE IN CONSTRUCTION SEQUENCE OR ACTIVITIES THAT HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS OFF SITE OR INTO ANY RECEIVING WATER AND SHALL SUBMIT THE UPDATED PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER.
5. EROSION AND SEDIMENT CONTROLS SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION AND SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL.
6. FIELD CONDITIONS MAY REQUIRE THE USE OF ADDITIONAL TYPES AND QUANTITIES OF SEDIMENT AND EROSION CONTROL DEVICES DURING CONSTRUCTION AS DETERMINED BY THE CONTRACTOR, THE ENVIRONMENTAL INSPECTOR, OR THE ENGINEER.
7. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO SUSPENSION OF WORK ACTIVITIES EACH DAY, IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL TO ENSURE THAT THE DEVICES ARE PROPERLY LOCATED AND MAINTAINED FOR EFFECTIVENESS. ANY REQUIRED REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY.
8. SEDIMENT TRAPPED BY THE EROSION CONTROL DEVICES IS TO BE REMOVED BY THE CONTRACTOR AFTER EACH RAIN STORM.
9. THE AMOUNT OF AREA DISTURBED AT ONE TIME SHALL BE LIMITED TO THE MINIMUM NECESSARY TO ADEQUATELY IMPLEMENT THE WORK. CONSTRUCTION OPERATIONS SHALL BE CONTROLLED TO MINIMIZE UNPROTECTED AREAS EXPOSED TO WEATHER, AND AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED.
10. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR BY STORMWATER RUNOFF, AND STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.
11. DURING THE INSTALLATION OF STORM DRAIN OR UTILITY PIPING, SYNTHETIC BALE BARRIERS SHALL BE PLACED BELOW THE WORK ZONES TO AID IN CONTROLLING THE TRANSFER OF ERODED MATERIAL OFF SITE.
12. NEW AND EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SILTATION DURING CONSTRUCTION. BARRIERS SHALL BE PLACED AROUND ALL INCOMPLETE STORMWATER INLETS AND MANHOLES DURING CONSTRUCTION. CURB INLET FILTERS SHALL BE PLACED ACROSS THE THROATS OF ALL EXISTING AND COMPLETED CURB INLETS.
13. EXISTING FLOW CAPACITY SHALL BE MAINTAINED IN THE DRAINAGE SYSTEMS TO CONVEY RUNOFF FROM RAIN STORMS THAT OCCUR DURING CONSTRUCTION. EXISTING DRAINAGE PIPES THAT ARE NOTED TO BE PLUGGED OR REMOVED SHALL REMAIN IN SERVICE UNTIL FLOWS CAN BE DIVERTED TO THE NEW DRAINAGE SYSTEM. WHERE NEW PIPES ARE TO BE INSTALLED IN CLOSE PROXIMITY TO EXISTING PIPES THAT ARE TO BE REMOVED, PROVISIONS SHALL BE MADE TO DIVERT FLOWS FROM THE EXISTING PIPES TO THE NEW PIPES PRIOR TO RAIN STORMS. TEMPORARY PIPES SHALL BE PLACED FOR THIS PURPOSE PRIOR TO SUSPENSION OF WORK ACTIVITIES EACH DAY.
14. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THOSE PORTIONS OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
15. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.
16. THE CONTRACTOR SHALL OBTAIN AN ENVIRONMENTAL MANAGEMENT PERMIT FROM THE CITY OF TALLAHASSEE GROWTH MANAGEMENT DEPARTMENT FOR ALL STOCKPILE AND CONSTRUCTION STAGING AREAS LOCATED OUTSIDE THE LIMITS OF CONSTRUCTION.



GENERAL NOTES - TREE PROTECTION:

1. BARRICADE FENCING SHALL BE INSTALLED AT OR NEAR THE CRITICAL PROTECTION ZONE OF EACH TREE TO BE PROTECTED PRIOR TO INITIATION OF ANY CONSTRUCTION ACTIVITY, AND THE FENCING SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
2. ALL ROOTS 3/4" IN DIAMETER AND LARGER OF TREES TO BE PROTECTED OR PRESERVED THAT ARE EXPOSED DURING TRENCHING AND EXCAVATION SHALL BE CLEANLY CUT WITH A HANDSAW AND COVERED IMMEDIATELY WITH SOIL OR KEPT MOISTENED WITH WET BURLAP OR PEAT MOSS UNTIL THE TRENCH CAN BE FILLED. WHEN IT IS NOT POSSIBLE TO BACKFILL IN THE SAME DAY, THE ROOTS SHALL BE FRESHLY CUT WITH A HANDSAW A REASONABLE DISTANCE FROM THE ORIGINAL CUT AND BACKFILLED IMMEDIATELY TO AVOID SOIL OR ROOT DEHYDRATION.
3. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A CERTIFIED ARBORIST TO BE ON SITE TO DIRECT TREE PROTECTION AND MITIGATION ACTIVITIES DURING ALL CONSTRUCTION OPERATIONS WITHIN THE CPZ OF TREES IDENTIFIED AS THOSE REQUIRING CERTIFIED ARBORIST SERVICES. MITIGATION ACTIVITIES INCLUDE LIMB PRUNING, ROOT CUTTING, WATERING, AND OTHER OPERATIONS NEEDED TO PRESERVE THE HEALTH OF THE TREE. SHOULD THE ARBORIST DETERMINE THAT MITIGATION EFFORTS WILL NOT BE SUFFICIENT TO OFFSET CONSTRUCTION IMPACTS AND TREE REMOVAL IS WARRANTED, THE ARBORIST WILL IMMEDIATELY NOTIFY THE CITY. SHOULD THE CITY DETERMINE THAT TREE REMOVAL IS WARRANTED, THE CITY WILL DIRECT THE CONTRACTOR TO REMOVE THE TREE. THE COST TO REMOVE ANY TREE DAMAGED BY CONSTRUCTION IMPACTS SHALL BE INCLUDED IN THE BID ITEM FOR CLEARING AND GRUBBING. THE COST OF ALL ARBORIST SERVICES AND ALL TREE MITIGATION ACTIVITIES AND OPERATIONS SHALL BE INCLUDED IN THE BID ITEM FOR MOBILIZATION.

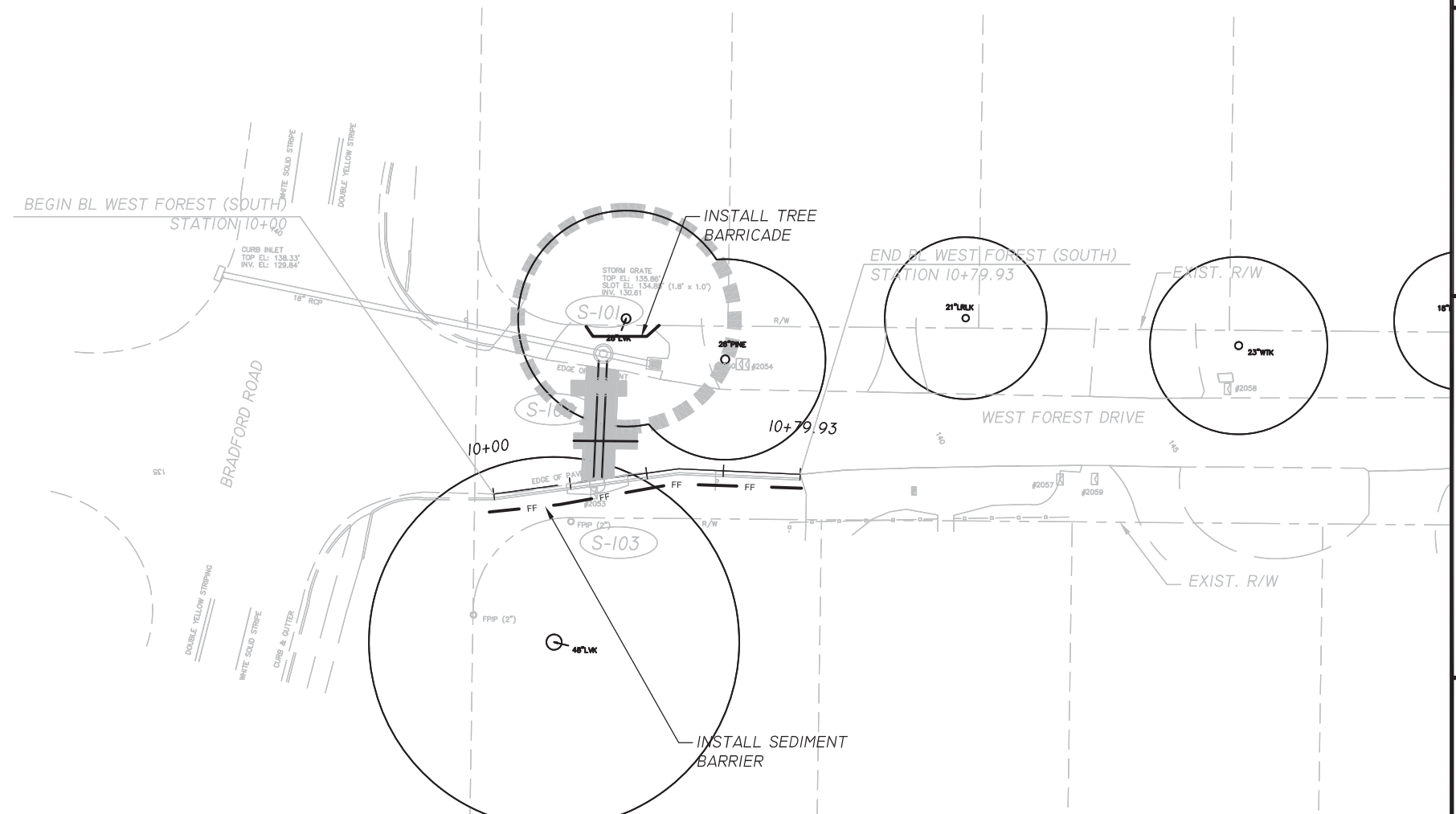
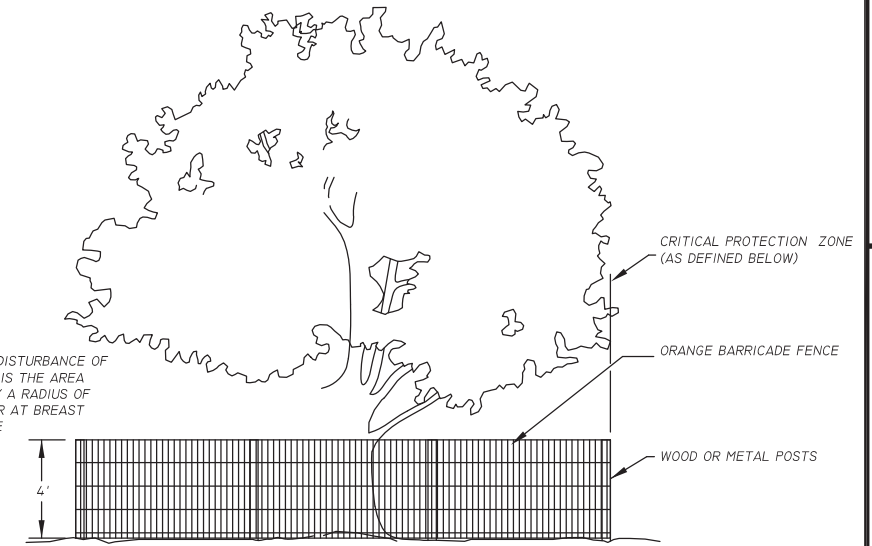
LEGEND



NOTES:

THE TREE PROTECTION BARRICADE IS TO PREVENT DISTURBANCE OF THE CRITICAL PROTECTION ZONE (CPZ). THE C.P.Z. IS THE AREA SURROUNDING A TREE WITH A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREST HEIGHT. THE AREA WITHIN BARRICADE IS NOT TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT.

TREE PROTECTION BARRICADE
NTS



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TREE PROTECTION AND EROSION CONTROL

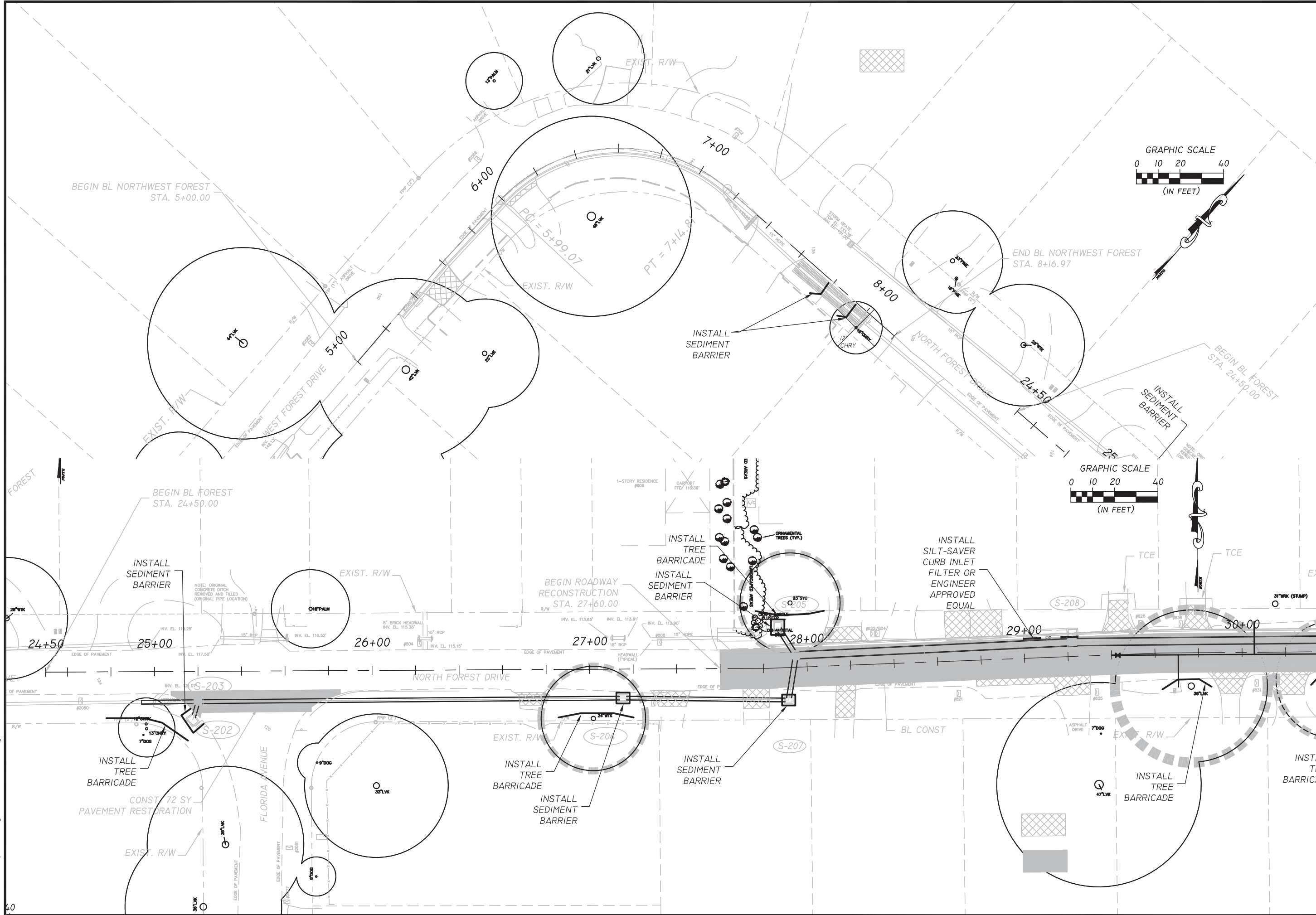
PROJECT
GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

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PHONE: (850) 383-0400
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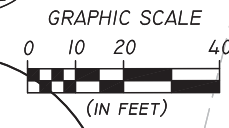
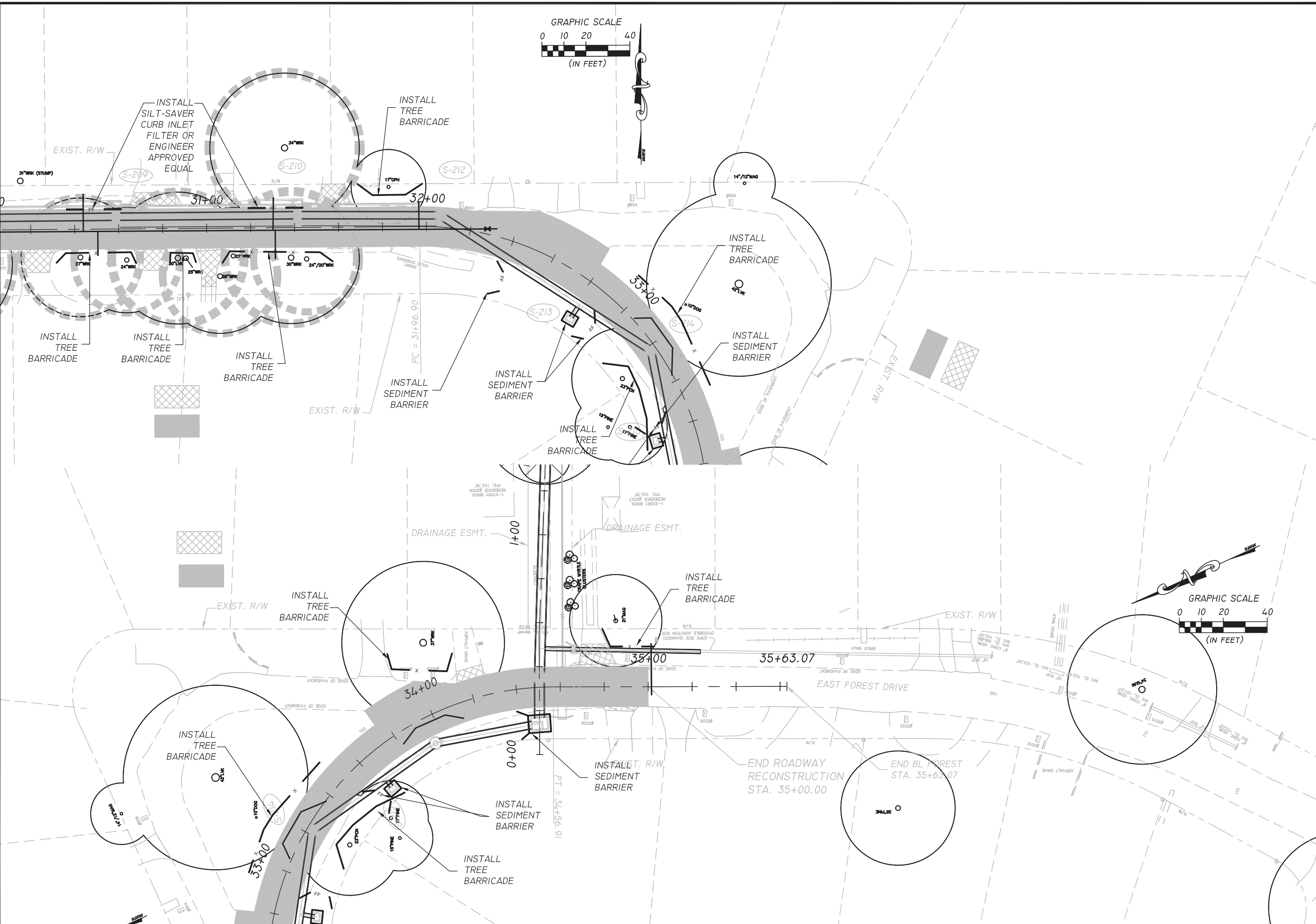
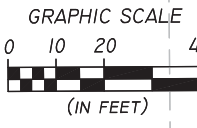
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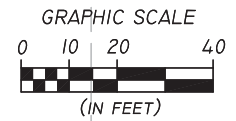
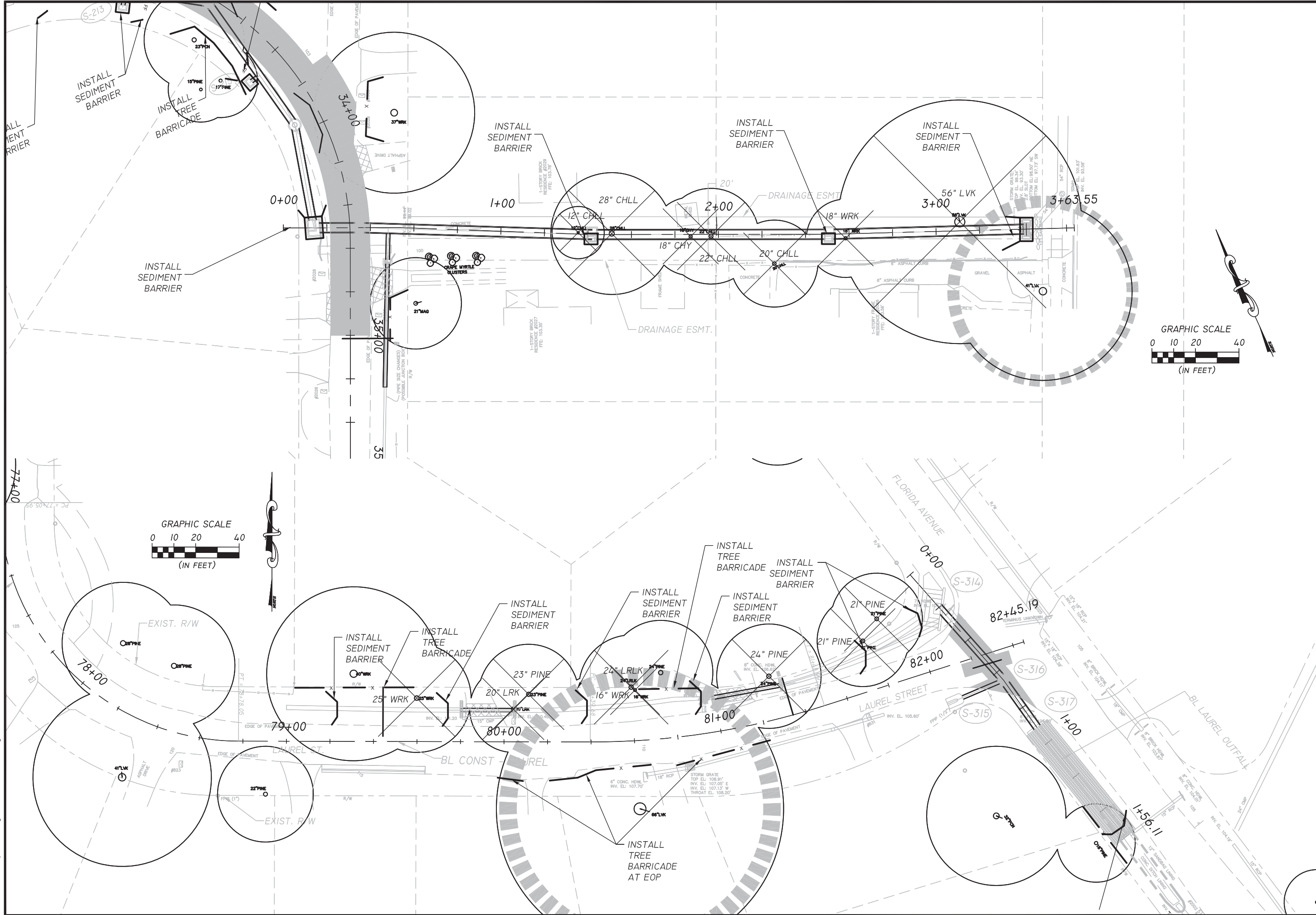
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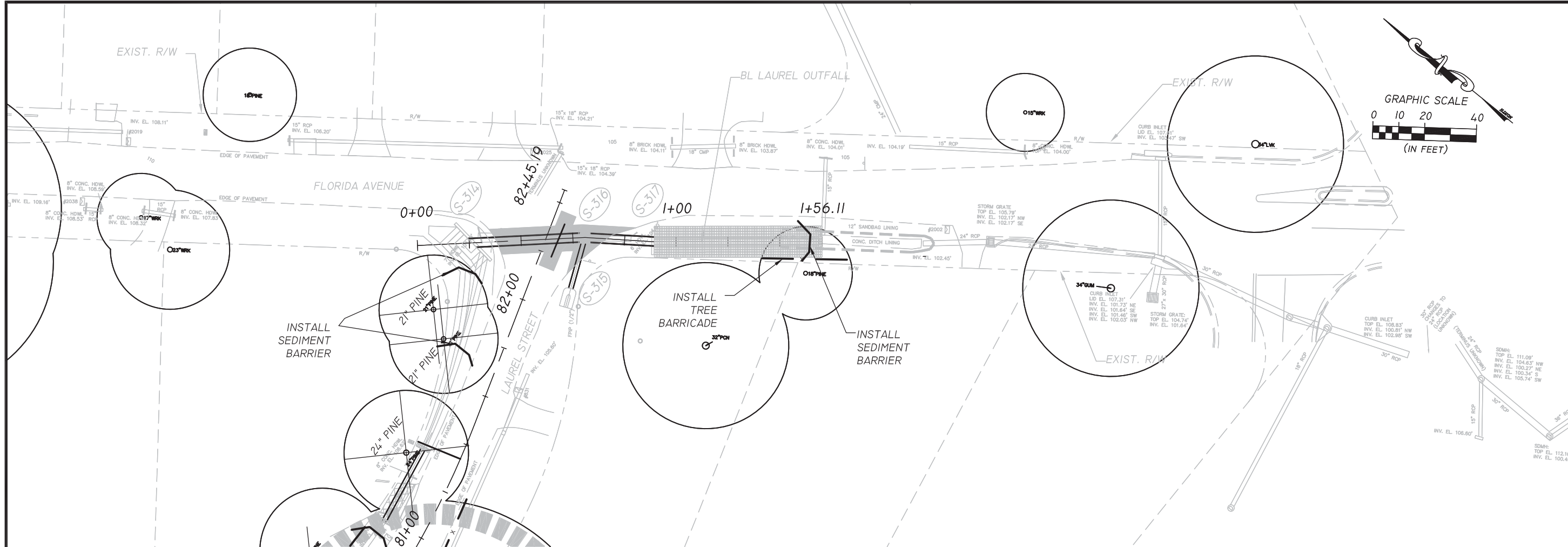
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SHEET TREE PROTECTION AND EROSION CONTROL

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TRAFFIC CONTROL NOTES

NEIGHBORHOOD ROADWAYS

1. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN THAT DESCRIBES THE MEASURES TO BE EMPLOYED DURING CONSTRUCTION TO WARN MOTORISTS AND PEDESTRIANS OF HAZARDS, TO ADVISE MOTORISTS OF THE PROPER TRAVEL PATH THROUGH OR AROUND THE WORK AREA, TO DELINEATE AREAS WHERE TRAFFIC SHOULD NOT OPERATE, AND TO SEPARATE AND PROTECT MOTORISTS, PEDESTRIANS, AND THE WORK FORCE DURING ALL PHASES OF THE WORK. THE PLAN SHALL ALSO CONSIDER ACCESS TO BUSINESSES WITHIN THE CONSTRUCTION AREA AND PROVIDE BUSINESS ENTRANCE SIGNS TO ROUTE MOTORISTS TO DESIGNATED PARKING AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE TRAFFIC CONTROL PLAN FROM THE CITY OF TALLAHASSEE TRAFFIC ENGINEERING DIVISION PRIOR TO BEGINNING CONSTRUCTION. PAYMENT FOR PREPARING AND SUBMITTING THE TRAFFIC CONTROL PLAN SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
2. ACCESS TO BUSINESS AND RESIDENTIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
3. NO ROADWAYS (INCLUDING COUNTY ROADS) SHALL BE CLOSED WITHOUT PRIOR APPROVAL OF THE CITY OF TALLAHASSEE TRAFFIC MOBILITY MANAGEMENT SECTION.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, 600 SERIES.
5. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE THE START OF CONSTRUCTION ON AFFECTED ROADWAYS.
6. WARNING LIGHTS SHALL BE USED ON BARRICADES DURING HOURS OF DARKNESS IN ACCORDANCE WITH INDEX NO. 600.
7. FOR RECONSTRUCTION OF NORTH FOREST DRIVE, ROADWAY SEGMENTS UNDER CONSTRUCTION MAY BE CLOSED TO THROUGH TRAFFIC. FOR ALL OTHER AREAS OF CONSTRUCTION, AT LEAST ONE LANE SHALL BE PROVIDED FOR TRAFFIC AT ALL TIMES.
8. WORK SHALL BE SCHEDULED WHERE ONLY ONE ROADWAY SEGMENT IS UNDER CONSTRUCTION AT A TIME.
9. ALL SIGNING AND ADVANCE WARNING SHALL BE INSTALLED PRIOR TO CLOSING ROAD SEGMENTS.

SR 61 (THOMASVILLE ROAD)

10. ALL TRAFFIC CONTROL APPURTENANCES (SIGN/BARRICADES, ADVANCE WARNING) FOR WORK WITHIN THE FDOT RIGHT-OF-WAY OF SR 61 (THOMASVILLE ROAD) SHALL BE IN ACCORDANCE WITH THE FDOT DESIGN STANDARDS, FDOT STANDARD SPECIFICATIONS, AND THE CONDITIONS OF THE UTILITY PLACEMENT PERMIT. SEE SUPPLEMENTAL INFORMATION.
11. UTILITY WORK SHALL BE ACCOMPLISHED USING THE STANDARD LAYOUTS INCLUDED IN FDOT INDEXES NO. 600 AND 612.

SUGGESTED CONSTRUCTION SEQUENCE

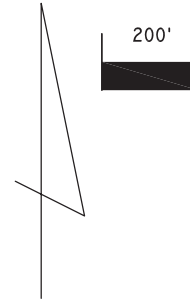
THE FOLLOWING SEQUENCE IS RECOMMENDED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS:

1. INSTALL EROSION CONTROL FEATURES
2. CLEARING AND GRUBBING
3. UTILITY ADJUSTMENTS
4. STORM SEWER CONSTRUCTION
5. ROADWAY STABILIZATION
6. OPTIONAL BASE CONSTRUCTION
7. CURB CONSTRUCTION
8. DRIVEWAY CONSTRUCTION
9. ASPHALT PLACEMENT
10. PERMANENT EROSION CONTROL

LEGEND

 ACTIVE WORK ZONE

 FLAGGER LOCATION



ADVANCED SIGNING
(ALL PHASES)

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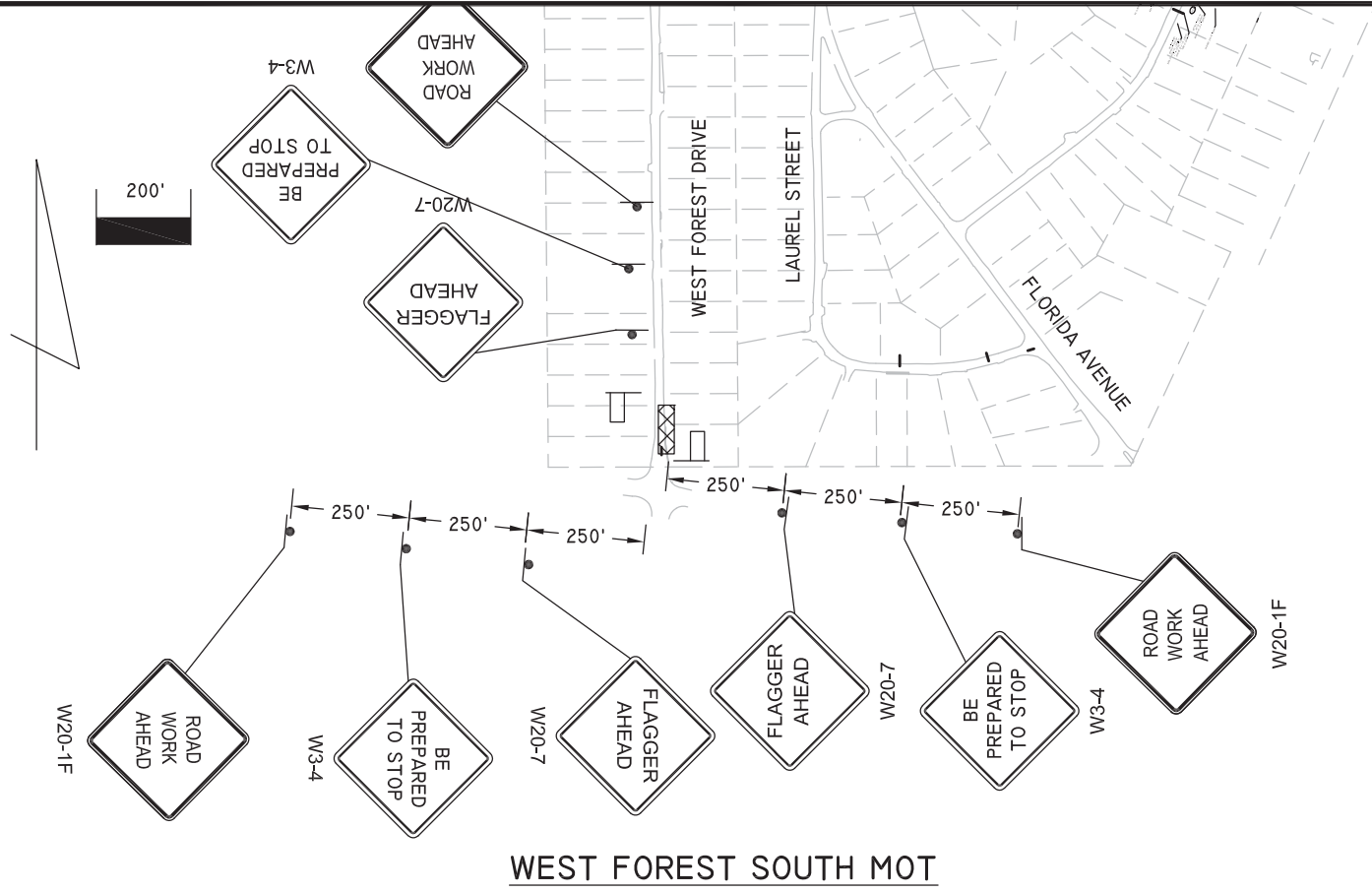
TRAFFIC CONTROL PLAN

PROJECT
GLENDALE NEIGHBORHOOD DRAINAGE IMPROVEMENTS

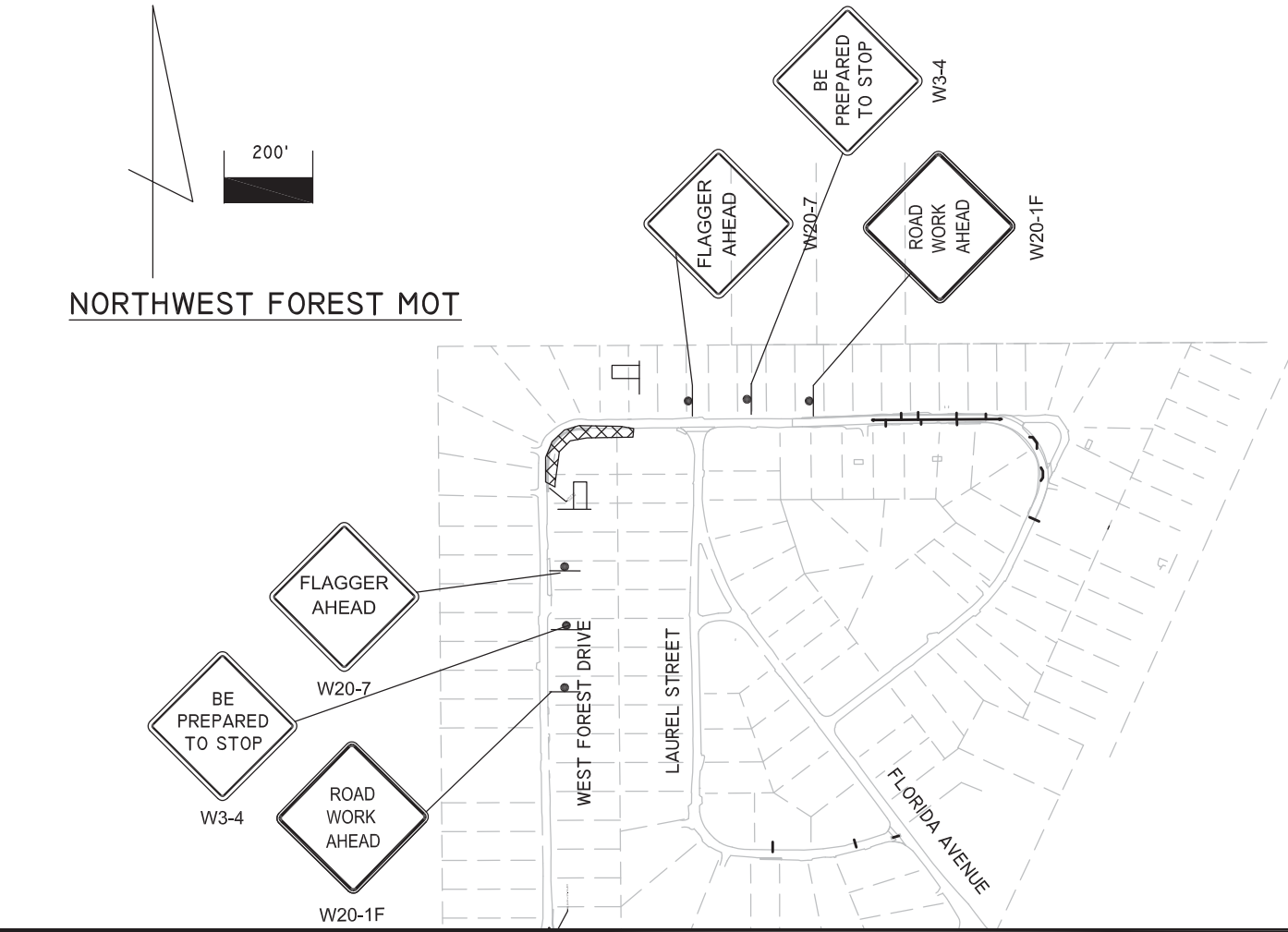
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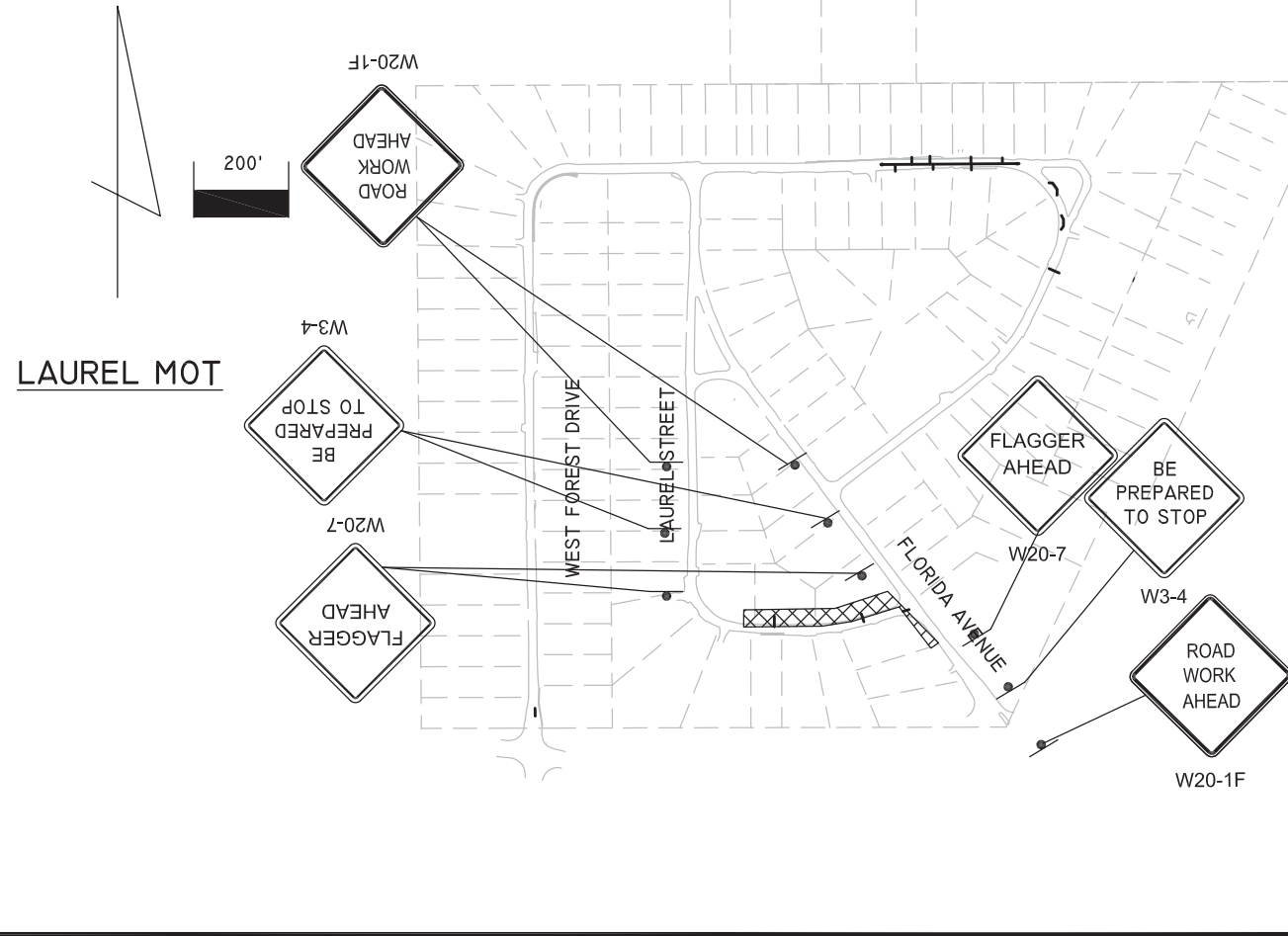
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WEST FOREST SOUTH MOT



NORTHWEST FOREST MOT



LAUREL MOT

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TRAFFIC CONTROL PLAN

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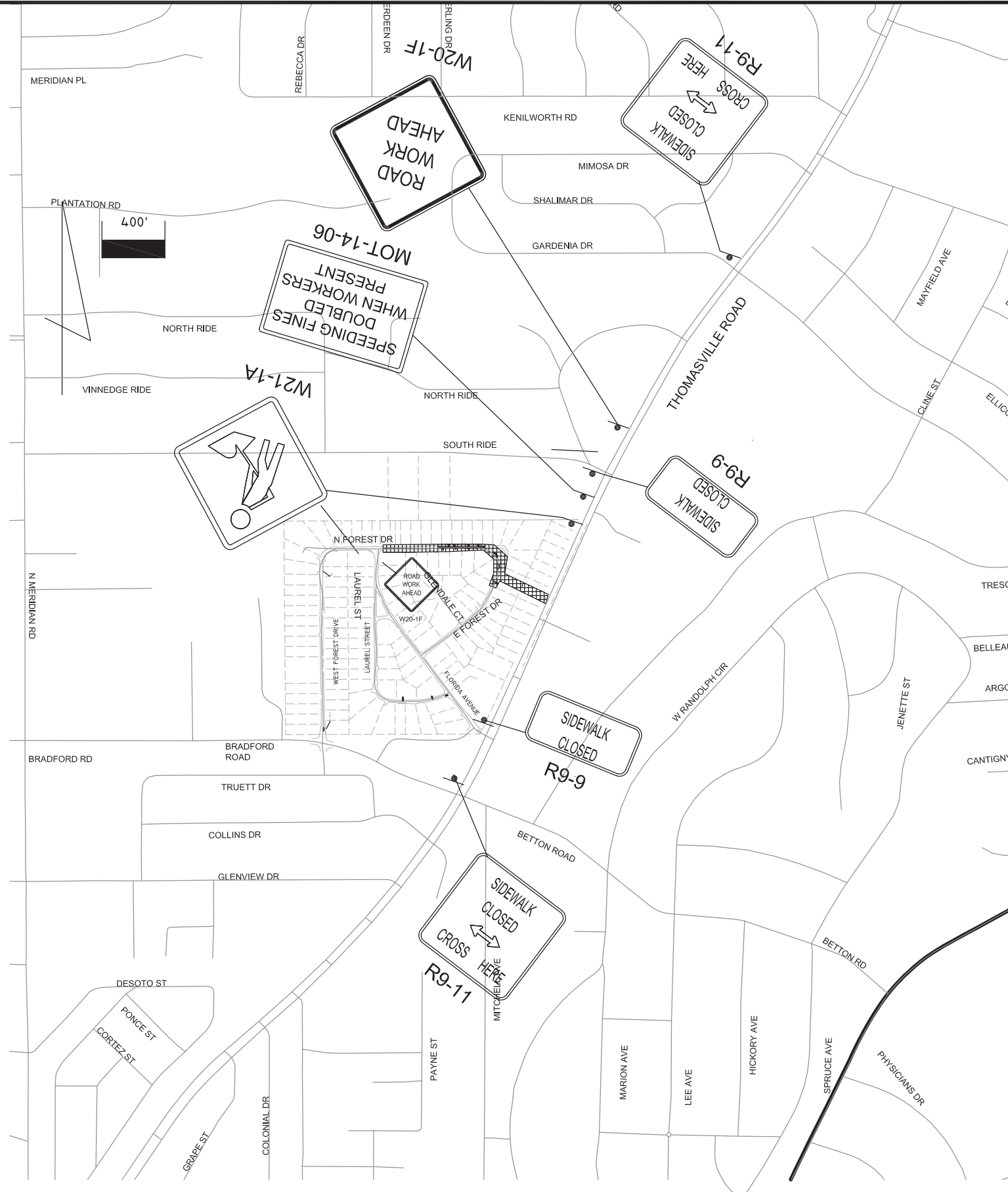
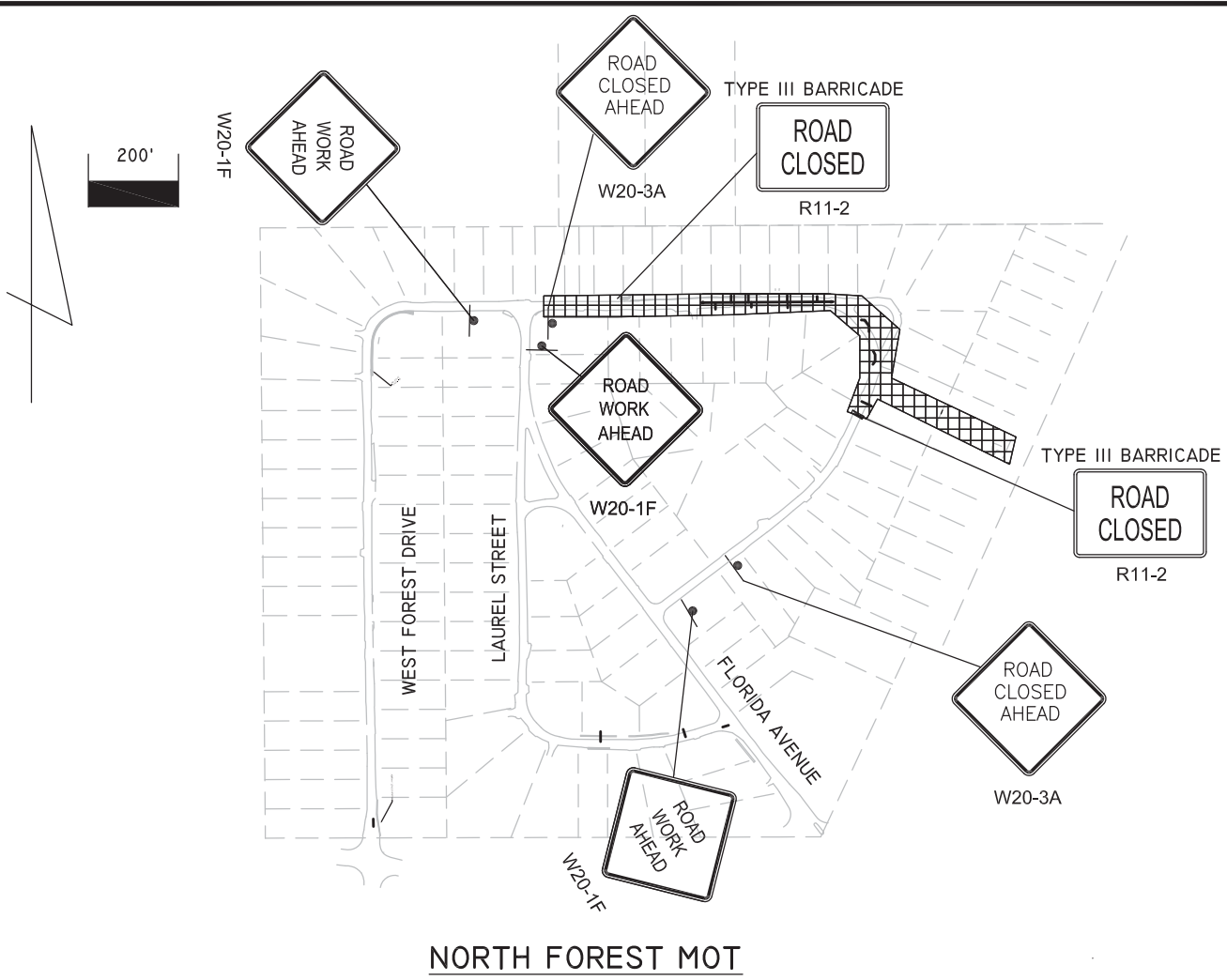
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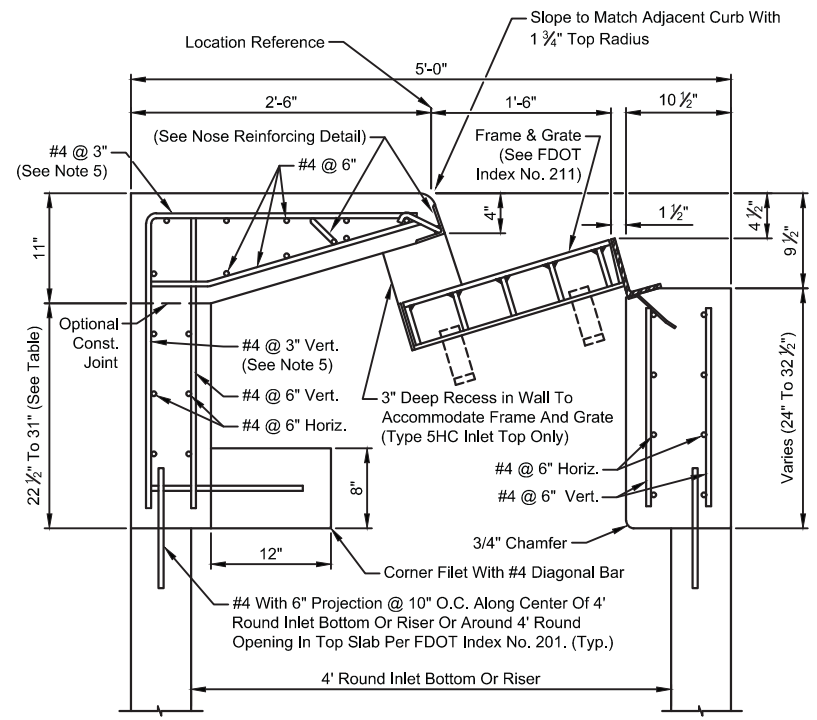
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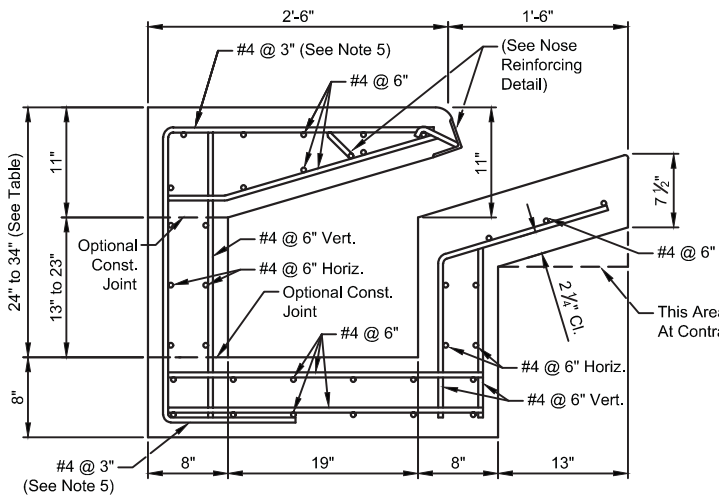
I. FOR ADDITIONAL DETAILS, SEE INDEX NO. 600 & 612

ENGINEER OF RECORD LANE P. LUCAS, P.E. Eutaw, Inc. 2822 Remington Green Circle Tallahassee, FL 32308 P.E. NO. 53596		Date _____ Signature _____
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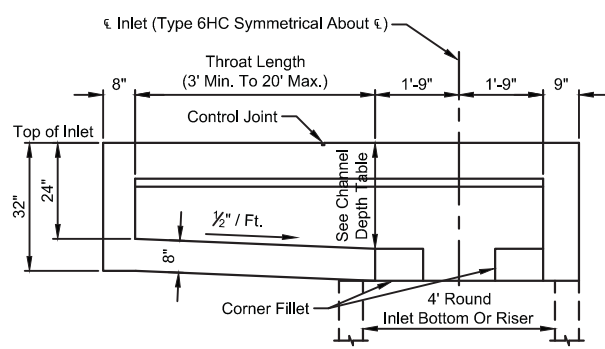
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SECTION AA



SECTION BB



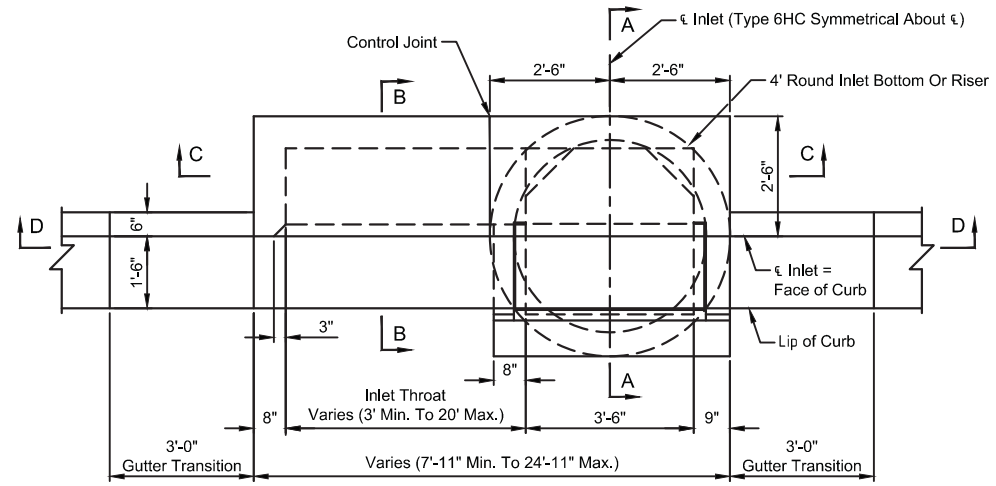
SECTION CC

CHANNEL DEPTH AT INLET BOTTOM OR RISER

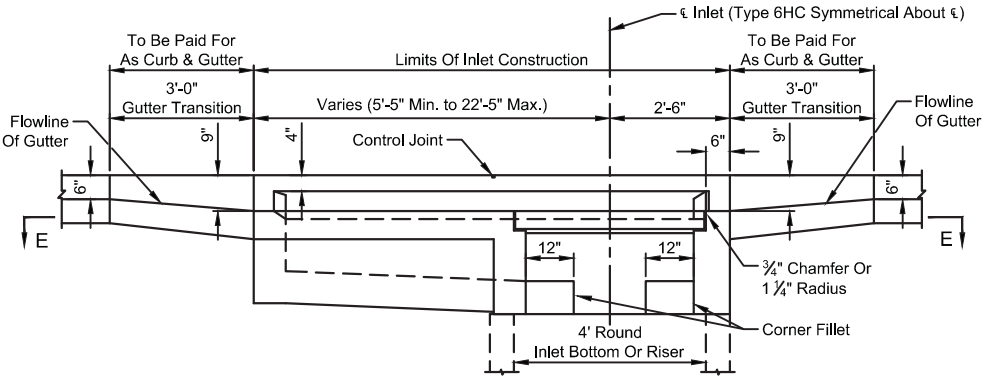
THROAT LENGTH	CHANNEL DEPTH
3 FT.	25 1/2"
4 FT.	26"
5 FT.	26 1/2"
6 FT.	27"
7 FT.	27 1/2"
8 FT.	28"
9 FT.	28 1/2"
10 FT.	29"
11 FT.	29 1/2"
12 FT.	30"
13 FT.	30 1/2"
14 FT.	31"
15 FT.	31 1/2"
16 FT.	32"
17 FT.	32 1/2"
18 FT.	33"
19 FT.	33 1/2"
20 FT.	34"

GENERAL NOTES

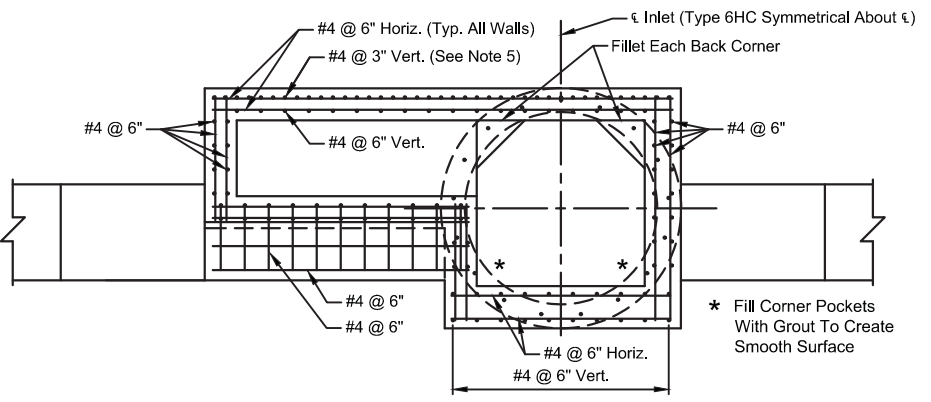
- The top of the inlet is to be parallel to the vertical alignment of the lip of curb. Bend the reinforcing steel and nose reinforcing angle as required. When an inlet is constructed on a roadway with existing curb and gutter, the lip of curb elevation and location shall match the existing lip of curb unless shown otherwise. The Contractor shall provide surveyed control points as needed to re-establish the horizontal location and vertical alignment of the lip of curb and to set the elevations of the top of the inlet.
- The top of the inlet shall slope toward the roadway at a 1.0% grade unless otherwise shown.
- For inlets constructed on a curve, determine the radii and modify the inlet details accordingly. Bend the steel as required. The front and back edges of exposed concrete surfaces are to be parallel.
- Inlet tops shall be cast-in-place using FDOT Class III, $f'c = 5,000$ psi, concrete.
- All reinforcing steel is to be ASTM A-615 Grade 60 bars with $1 \frac{1}{4}$ " minimum cover unless otherwise shown. Lap splices shall be a minimum of 16" in length for #4 bars and 24" in length for #6 bars, except as noted.
- #4 bars @ 3" spacing in rear wall and top and bottom slabs are to be continuous. These bars may be spliced only if a minimum splice length of 16" is provided.
- Horizontal reinforcement at outside corners of wall sections shall continue around corner with lap splice, or corner bars shall be used to lap splice with horizontal wall reinforcement of each adjoining wall.
- See FDOT Index No. 200 for inlet bottoms and Index No. 201 for supplemental details. See FDOT Index No. 211 for frame and grate details and specifications. Either cast iron or steel grates may be used.
- Inlets are to be paid for by the contract unit price for each inlet as identified by structure number. Payment shall include the cost of concrete, reinforcing steel, frame and grate, nose reinforcing, and riser and/or structure bottom as called for in the plans.



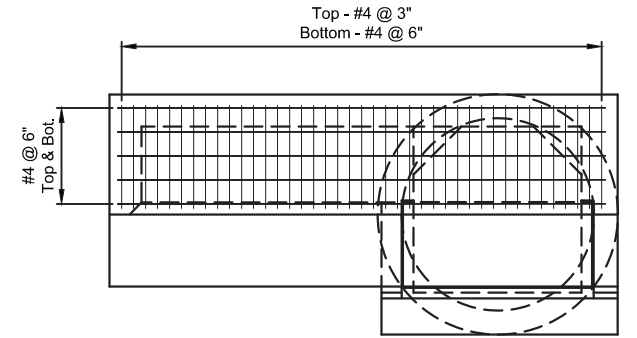
TOP VIEW



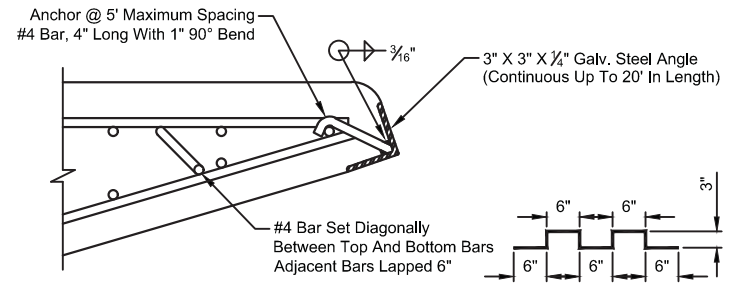
SECTION DD



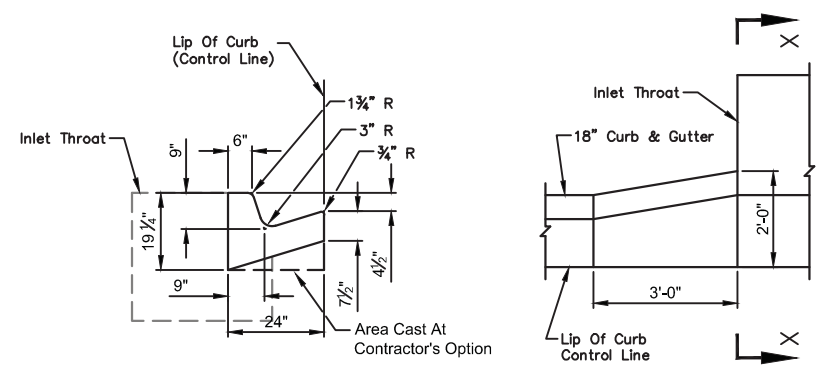
SECTION EE



TOP SLAB REINFORCEMENT PLAN
(Diagonal #4 Nose Reinforcing Bars Not Shown)



NOSE REINFORCING DETAIL



18" CURB & GUTTER TRANSITION
Inlet Throat End Of Structure (Opposite End Reversed)

STRUCTURAL DESIGN BY
Stephen A. Nichols, P.E.
P.E. License No. 27463
Inovia Consulting Group
930 Thomasville Road, Suite 200
Tallahassee, Florida 32303

STANDARD DETAILS
CURB INLET TOPS
TYPES 5HC & 6HC

LAST REVISION
10/04/16