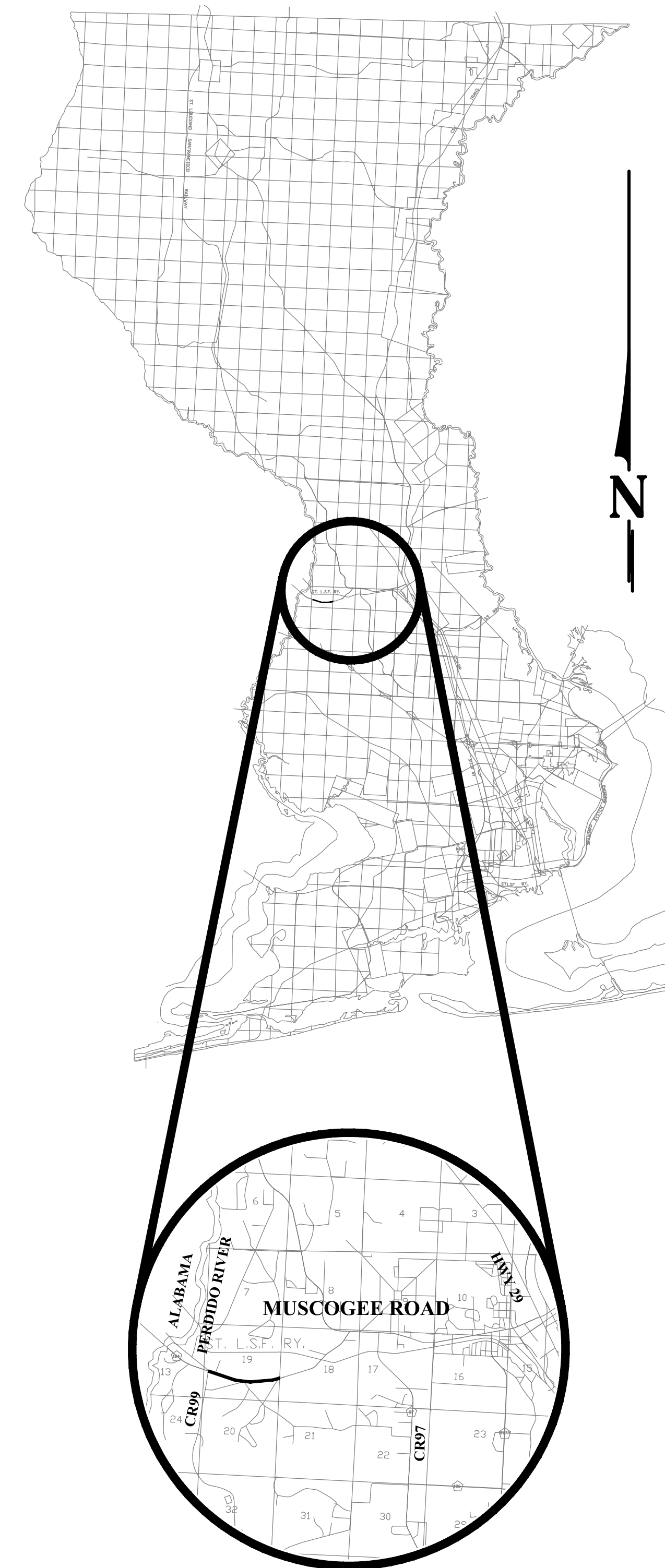




**BOARD OF COUNTY COMMISSIONERS
 ESCAMBIA COUNTY, FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING / INFRASTRUCTURE DIVISION**



VICINITY MAP

PROJECT LENGTH
 ±1 MILE

INDEX OF ROADWAY PLANS

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3	EROSION CONTROL DETAILS & NOTES
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**PLANS PROPOSED FOR
 MUSCOGEE ROAD
 PHASE II
 WIDENING & DRAINAGE
 IMPROVEMENTS
 (BEULAH ROAD TO CARLISLE DRIVE)**

**100% SUBMITTAL
 March 2016**

COMMISSIONERS

- | | |
|-----------------------|--|
| DISTRICT ONE | WILSON ROBERTSON, VICE CHAIRMAN |
| DISTRICT TWO | GENE VALENTINO |
| DISTRICT THREE | LUMON MAY |
| DISTRICT FOUR | GROVER ROBINSON, CHAIRMAN |
| DISTRICT FIVE | STEVEN BARRY |

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

PROJECT MANAGER: E. BUSH	
SECTION / TOWNSHIP / RANGE: 8-11,14-19 / 1N / 31W; 13 / 1N / 32 W	DISTRICT: 5
PROJECT ENGINEER: PAUL A. BATTLE, P.E.	REG FLA ENG NO: 53126
SIGNATURE:	DATE:

GENERAL NOTES:

- THE CONTRACTORS SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.
- ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITH IN EVERY DETAIL.
- THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.
- ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT INDEX 102, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, LATEST EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE. REFER TO SHEETS 2-3 FOR STORMWATER POLLUTION PREVENTION PLAN & TYPICAL DETAILS.
- ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY WILL PROVIDE STORMWATER AND WETLAND PERMIT AND ASSIST CONTRACTOR WITH REQUIRED PERMITS.
- THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS AS NEEDED DURING CONSTRUCTION. ANY PUBLIC LAND CORNER MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY.
- ALL FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF STATE LANDS, BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTATION SHALL BE PROTECTED AT ALL TIMES. ANY DISTURBANCE TO SAID MONUMENTS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE WITH NO COMPENSATION FROM THE COUNTY.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
- ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
- ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
- ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS REFERENCED ON SHEET 3.
- EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' OPEN LANE AT ALL TIMES EXCEPT WHEN DETOURS APPLY. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY. IF THE ROADWAY REQUIRES CLOSURE FOR IMPROVEMENTS THE CONTRACTOR SHALL SUBMIT A DETOUR PLAN TO THE COUNTY AND EMERGENCY RESPONSE AGENCIES AT LEAST 72 HOURS PRIOR TO ROAD CLOSURE.
- THE CONTRACTOR SHALL PREPARE AND PROVIDE A MAINTENANCE OF TRAFFIC PLAN TO THE COUNTY FOR REVIEW AND APPROVAL. A DETOUR PLAN WILL BE REQUIRED. THE USE OF VARIABLE MESSAGE BOARDS WILL BE REQUIRED.
- CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS REQUIREMENTS.
- ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE COUNTY.
- IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:

REBOL-BATTLE AND ASSOCIATES 2301 N. NINTH AVENUE, SUITE 300 PENSACOLA, FLORIDA 32503	FABRE ENGINEERING AND SURVEYING 119 GREGORY SQUARE PENSACOLA, FLORIDA 32502
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- VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.
- SOD RIGHT-OF-WAY IN ACCORDANCE WITH COUNTY SPECIFICATION SECTION 2900 WHICH REQUIRES CENTIPEDE SOD OR SOD MATCHING THE EXISTING GRASS TYPE OF ESTABLISHED YARDS.
- ALL EXISTING CONCRETE DITCHES AND CONCRETE SWALES NOT REMOVED SHALL BE PRESSURE WASHED TO GIVE A LIKE NEW APPEARANCE.
- STOCKPILE ALL MILLED ASPHALT AND SAVE FOR ESCAMBIA COUNTY ROAD DEPARTMENT. MILLINGS SHALL BE DELIVERED TO THE ESCAMBIA COUNTY ROAD DEPARTMENT AT 601 HWY 297A. COORDINATE WITH THE ROAD DEPARTMENT SUPERVISOR, AARON SMITH AT 554-2908.
- UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.
- ALL TREES WITHIN THE CLEAR ZONE SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.
- PRIOR TO CLEARING AND GRUBBING THE CONTRACTOR SHALL INSTALL TREE BARRICADES AROUND PROTECTED TREES. SEE SHEET 3 FOR TREE BARRICADE DETAIL
- EXISTING DRAINAGE FEATURES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.
- ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
- MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.
- ALL EXISTING MAILBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED. BRICK MAILBOX REMOVAL SHALL BE COORDINATED WITH THE PROPERTY OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED FDOT PLASTIC BREAK AWAY MAILBOX. CONTRACTOR SHALL NOTIFY HOME OWNER PRIOR TO REMOVAL.
- WHERE UNSUITABLE MATERIAL, AS DEFINED BY THE COUNTY SPECIFICATIONS SECTION 02300, 1.3(1), IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.
- THE PIPE LENGTHS SHOWN IN THE PLANS INCLUDE THE TOTAL LENGTH OF PIPE INCLUDING MITERED END SECTIONS. ALL DRIVEWAY CULVERTS AND PIPES NOT UNDER ROADWAYS OR IDENTIFIED ON THE PLANS SHALL BE CORRUGATED PVC. PIPES ASSOCIATED WITH MITERED END SECTIONS CONNECTING TO CORRUGATED PVC SHALL BE CMP. DISSIMILAR PIPE MATERIALS WILL REQUIRE A PIPE COLLAR FOR PROPER CONNECTION. THE COST OF THE PIPE COLLAR (MATERIAL, LABOR) SHALL BE INCLUDED IN THE COST OF THE MITERED END SECTION. PIPES ASSOCIATED WITH MITERED END SECTIONS CONNECTING TO RCP SHALL ALSO BE RCP. ALTHOUGH TOTAL LENGTH OF PIPE IS NOTED ON THE PLANS TO ILLUSTRATE COMPLETE PIPE LENGTH THROUGH THE MITERED END SECTIONS, PIPE QUANTITIES IN THE BID TAB DO NOT INCLUDE THE LENGTH OF PIPE ASSOCIATED WITH THE MITERED END SECTION. PIPE ASSOCIATED WITH THE MITERED END SECTION SHALL BE INCLUDED IN THE UNIT COST OF THE MITERED END SECTION.
- ALL CORRUGATED PVC PIPE MUST BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- ALL RESIDENTIAL AND COMMERCIAL DRIVEWAY TURNOUTS THROUGHOUT THE PROJECT ENTIRETY SHALL CONFORM TO FDOT INDEX 515. DRIVEWAYS WHICH CANNOT MEET THIS CRITERIA SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO DRIVEWAY PAVING FOR CONFLICT RESOLUTION.
- THE MAXIMUM ALLOWABLE SLOPE FOR GRASS DITCH CONSTRUCTION IS 3:1 UNLESS SPECIFICALLY IDENTIFIED ON INDIVIDUAL CROSS SECTIONS WITHIN THE PLAN SET OR AS APPROVED BY THE ENGINEER OF RECORD. THE TYPICAL SLOPE IS 4:1.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NPDES PERMITTING NOTIFICATIONS AND INSPECTIONS. SEE SHEET 2. THE CONTRACTOR SHALL SUBMIT AT A MINIMUM WEEKLY INSPECTION REPORTS AND ADDITIONAL REPORTS FOR EACH RAIN EVENT GREATER THAN 1/2" TO THE PROJECT CEI.
- ALL ASPHALT TO BE REMOVED SHALL BE SAWCUT AT CONNECTIONS TO EXISTING ROADS AND DRIVEWAYS THAT ARE TO REMAIN. CONTRACTOR SHALL PROTECT SAWCUT EDGES TO REMAIN.
- THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW "AS-BUILT" CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING, ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- THE OWNER INTENDS THAT THE CONTRACT DOCUMENTS WILL PROVIDE A COMPLETE AND FULLY FUNCTIONAL PROJECT. WHERE LABOR AND MATERIALS MAY BE REQUIRED TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL PROJECT BUT IS NOT FULLY SPECIFIED, DETAILED OR SHOWN AS A CONSTRUCTION ITEM, THE CONTRACTOR SHALL PROVIDE THE REQUIRED MATERIAL OR LABOR TO MEET THE INTENT OF THE CONTRACT DOCUMENTS. THIS REQUIREMENT MAY ONLY BE CONSTRUED AS A REQUIREMENT TO COMPLETE OR MAKE FUNCTIONAL CONSTRUCTION ITEMS SHOWN IN OR ON THE CONTRACT DOCUMENTS.
- PRIOR TO COMMENCING CONSTRUCTION ON SITE, THE CONTRACTOR SHALL VIDEO TAPE EXISTING CONDITIONS ON SITE AND AT OFF SITE CONSTRUCTION AREAS. THE CONTRACTOR SHALL CONCENTRATE VIDEO DETAIL AT CONSTRUCTION AREAS ADJACENT TO EXISTING RIGHTS-OF-WAY, AREAS ADJACENT TO EXISTING BUILDINGS OR OTHER IMPROVEMENTS, AND EXISTING PROPERTY LINES. THE CONTRACTOR SHALL KEEP ONE COPY AND PROVIDE ONE COPY EACH TO THE OWNER AND OWNER'S CONSTRUCTION INSPECTION/ADMINISTRATION REPRESENTATIVE.
- ALL FINAL CONSTRUCTION AND CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL BUILDING AND/OR CONSTRUCTION CODES, RULES OR REQUIREMENTS AS APPLICABLE.
- THE CONTRACTOR SHALL REMOVE ALL LANDSCAPING (TREES & SHRUBS) & HARD-SCAPE WITHIN THE CONSTRUCTION LIMITS OTHER THAN AREAS SPECIFICALLY NOTED TO REPLACE IN KIND. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS PRIOR TO REMOVAL.
- REMOVE & REPLACE ALL FENCES TO R/W LINE. NEW FENCE LOCATION SHOWN ON PLAN/PROFILE SHEETS.
- A GULF SOUTH PIPELINE REPRESENTATIVE SHALL BE NOTIFIED 48 HOURS PRIOR TO ENTERING GULF SOUTH PIPELINE RIGHT-OF-WAY. A GULF SOUTH PIPELINE REPRESENTATIVE MUST BE ON-SITE WHEN ANY ACTIVITIES ARE OCCURRING WITHIN THE LIMITS OF THEIR RIGHT-OF-WAY.
- ALL ECUA WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ECUA ENGINEERING MANUAL. ALL FARMHILL WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST FARMHILL STANDARDS.
- AT&T FLORIDA WILL COMPLETE ALL WORK DURING OUR 'NORMAL WORKING HOURS', (MONDAY TO FRIDAY 7:30AM TO 4:30PM). NO NIGHT WORK.
- ALL CABLE DAMAGE MUST BE REPORTED TO THE AT&T FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 1-800-432-1424 IF USING A CELL PHONE.
- AT&T FLORIDA WILL COMPLETE ALL WORK DURING OUR 'NORMAL WORKING HOURS' (MONDAY TO FRIDAY 7:30AM TO 4:30PM). ALL CABLE DAMAGE MUST BE REPORTED TO THE AT&T FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 1-800-432-1424 IF USING A CELL PHONE.
- UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES. KNOWN UTILITIES OWNERS INCLUDE:

FARM HILL UTILITIES INC
 120 MADRID ROAD
 CANTONMENT, FL 32533-1012
 PHONE: (850) 968-2573

REAL AMERICA INSURANCE
 7411 FULLERTON STREET, SUITE 110
 JACKSONVILLE, FL 32256
 PHONE: (904) 538-6349

SANITARY SEWER/WATER - EMERALD COAST UTILITY AUTHORITY
 MR. MIKE HAMLIN
 P.O. BOX 15311
 PENSACOLA, FL 32514 PH: (850) 969-3310

ELECTRIC - GULF POWER
 MR. CHAD SWAILS
 5120 DOGWOOD DRIVE
 MILTON, FL 32570 PH: (850) 429-2446

NATURAL GAS - ENERGY SERVICES OF PENSACOLA
 MR. GLENN BAILEY
 1625 ATWOOD DRIVE
 PENSACOLA, FL 32514 PH: (850) 474-5310

CABLE - COX CABLE
 MRS. LISSA DEES
 2421 EXECUTIVE PLAZA
 PENSACOLA, FL 32504 PH: (850) 857-4564

TELEPHONE - AT&T
 MR. STAN WRIGHT
 605 WEST GARDEN STREET
 PENSACOLA, FL 32501 PH: (850) 436-1488

SUNSHINE STATE ONE-CALL
 7200 LAKE ELLENOR DRIVE, SUITE 200
 ORLANDO, FL 32809 PH: (800) 432-4770

ESCAMBIA COUNTY TRAFFIC SIGNAL UTILITY SPOTS
 MS. JOHNNY COX
 (850) 595-3484

NOTES FOR CONSTRUCTION IN FDOT RIGHT-OF-WAY (MUSCOGEE ROAD AT HIGHWAY 29):

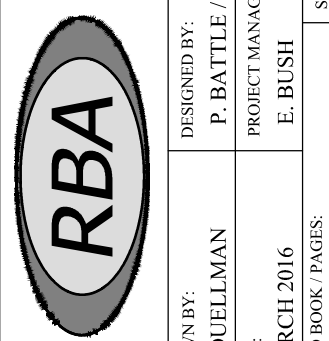
- CONTRACTOR SHALL BE RESPONSIBLE FOR COST AND INSTALLATION OF ANY TRAFFIC CONTROL SIGNALS REQUIRED BY FDOT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES ASSOCIATED WITH THIS CONNECTION AND FEDERAL, STATE, OR LOCAL ENVIRONMENTAL REGULATIONS.
- CONTRACTOR SHALL FURNISH THE DEPARTMENT WITH MANUFACTURER'S "LEAD FREE" CERTIFICATION, A.K.A., MATERIAL SAFETY DATA SHEET, IF THERMOPLASTIC OR PAINT IS USED FOR PAVEMENT MARKINGS WITHIN THE FDOT RIGHT-OF-WAY.
- PERMITTEE OR PERMITTEE'S ENGINEER WILL BE RESPONSIBLE TO VERIFY WORK PERFORMED UNDER DRIVEWAY, DRAINAGE, OR UTILITY PERMIT(S) IS COMPLETE AS APPROVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING FDOT RIGHT-OF-WAY TO ORIGINAL OR BETTER CONDITION AFTER CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN AND GRADE DITCH TO THE FLOW LINE OF CULVERTS AND/OR MATCH ADJACENT EXISTING CONDITIONS.
- CONTRACTOR HEREBY AGREES TO ADHERE TO FDOT'S UTILITY ACCOMMODATION MANUAL AND FDOT'S ROADWAY AND TRAFFIC DESIGN STANDARD INDEX 100 SERIES, WHICH RELATE TO EROSION CONTROL IN THE PERMITTED WORK AREA AND IS FURTHER AMENDED TO THE CONTRACTOR TO:
 - PROVISIONS OF THE UTILITY ACCOMMODATION MANUAL AND STANDARD SPECIFICATIONS CONCERNING GRASSING AND RESTORATION OF FDOT RIGHT-OF-WAY WILL BE STRICTLY ENFORCED. ALL PORTIONS OF THE RIGHT-OF-WAY DISTURBED IN THE CONSTRUCTION OF THIS FACILITY WILL BE SODDED, AND/OR SEEDED AND MULCHED PER FDOT'S INDEX 105.
 - MINIMUM APPLICATION RATES FOR SEEDING: IT IS RECOMMENDED THAT PERMANENT GRASS SPECIES BE A MIXTURE OF BAHIA AND BERMUDA AT THE RATE OF 30# EACH OR A TOTAL OF 60# PER ACRE. (A SPECIES VARIATION MAY OCCUR IN SOME AREAS AS A CONSIDERATION TO ADJACENT LAND OWNERS.) THE RECOMMENDED TEMPORARY SEED APPLICATION FROM APRIL THROUGH SEPTEMBER IS BROWN TOP OR JAPANESE MILLET WHILE ANNUAL RYE GRASS IS SUFFICIENT FROM OCTOBER THROUGH MARCH. DEPENDING ON SOIL CONDITIONS, THIS TEMPORARY SEED RATE MAY VARY 20-30#/S. ALL AREAS ARE TO BE RESEEDED REGARDLESS OF SIZE.
 - MINIMUM APPLICATION RATES FOR FERTILIZER: IT IS RECOMMENDED THAT A GRANULAR BLEND OR HOMOGENIZED FERTILIZER BE APPLIED AT THE RATE OF 400# PER ACRE. THE MINIMUM ANALYSIS (NPK) IS 12-8-8 WITH 8% SULFUR. (AN ACCEPTABLE SUBSTITUTE IS 13-13-13.) FERTILIZER MAY NEED TO BE APPLIED FROM THE EDGE OF PAVEMENT TO THE RIGHT-OF-WAY LINE.
- THE CONTRACTOR SHALL FURNISH TO THE ENGINEER, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES -DIVISION OF PLAN INDUSTRY, STATING THAT THE SOD/HAY/STRAW AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS -INCLUDING TROPICAL SODA APPLE.
- ALL LANES MUST BE OPEN WITHIN 24 HOURS AFTER NOTICE, DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE LOCAL FDOT MAINTENANCE ENGINEER OR HIS DESIGNEE.
- NO LANE CLOSURES DURING THE HOURS OF 6:00AM TO 8:00PM. NO LANE CLOSURES ON HOLIDAY WEEKENDS INCLUDING THE DAY PRECEDING AND FOLLOWING.
- THE CONTRACTOR SHALL PROVIDE A COPY OF THE CERTIFIED WORKSITE SAFETY SUPERVISOR RESPONSIBLE FOR WORK ZONE TRAFFIC CONTROL ALONG STATE RIGHT-OF-WAY.
- THE CONTRACTOR SHALL GIVE 48 HOUR NOTICE PRIOR TO BEGINNING WORK IN STATE RIGHT-OF-WAY.
- THE CONTRACTOR SHALL PROVIDE PROOF THAT FDOT PUBLIC INFORMATION OFFICE HAS BEEN NOTIFIED OF PROPOSED LANE CLOSURE SCHEDULE (A COPY OF THE EMAIL NOTIFICATION WILL SUFFICE). CALL 1-888-638-0250 AND REQUEST TO SPEAK TO THE PUBLIC INFORMATION OFFICE.

LEGEND	
	PROPOSED ASPHALT
	PROPOSED ASPHALT RECONSTRUCTION
	EXISTING ASPHALT
	EXISTING CONCRETE
	PROPOSED CONCRETE
	EXISTING GRAVEL
	EXISTING DIRT
	EXISTING WETLAND
	TEMPORARY CONSTRUCTION EASEMENT
	DEMOLITION
	DEMOLITION
	CENTERLINE
	EASEMENT LINE
	LOT LINE
	RIGHT-OF-WAY LINE
	WETLAND JURISDICTIONAL LINE
	TREE LINE
	FENCE
	WATER MAIN
	GRAVITY SEWER
	FORCE MAIN
	BURIED TELEPHONE
	GAS LINE
	BURIED CABLE TV
	OVERHEAD UTILITIES
	FIBER OPTIC LINE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	BENCHMARK
	SOIL BORING & LABEL
	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
	TELEPHONE MANHOLE
	SEWER VALVE
	WATER VALVE
	GAS VALVE
	WATER METER
	FAUCET
	MONITORING WELL
	TELEPHONE EQUIPMENT
	ELECTRIC EQUIPMENT
	SPRINKLER CONTROL VALVE
	BACKFLOW PREVENTER
	LIGHT POLE
	GUY WIRE
	POWER POLE
	MAILBOX
	ROAD SIGN
	POST/BOLLARD
	BURIED FIBER OPTIC CABLE MARKER
	BURIED WATER LINE MARKER
	BURIED GAS MARKER
	TREES
	SHRUBS

**MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS**

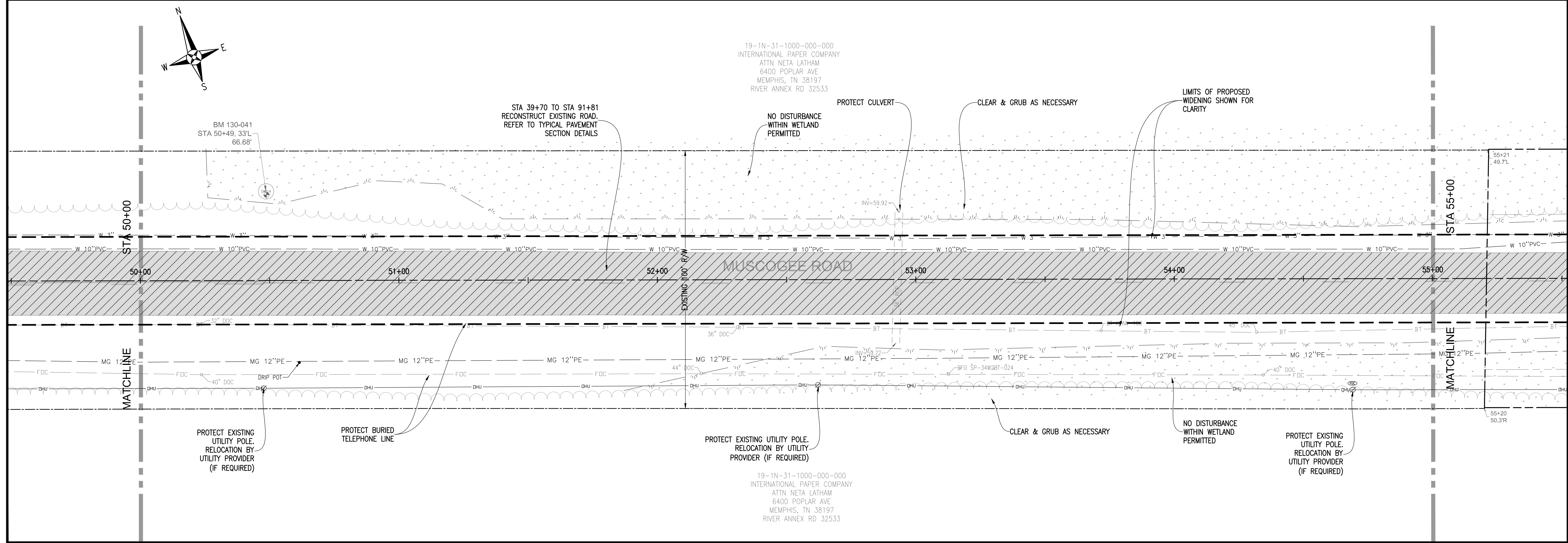
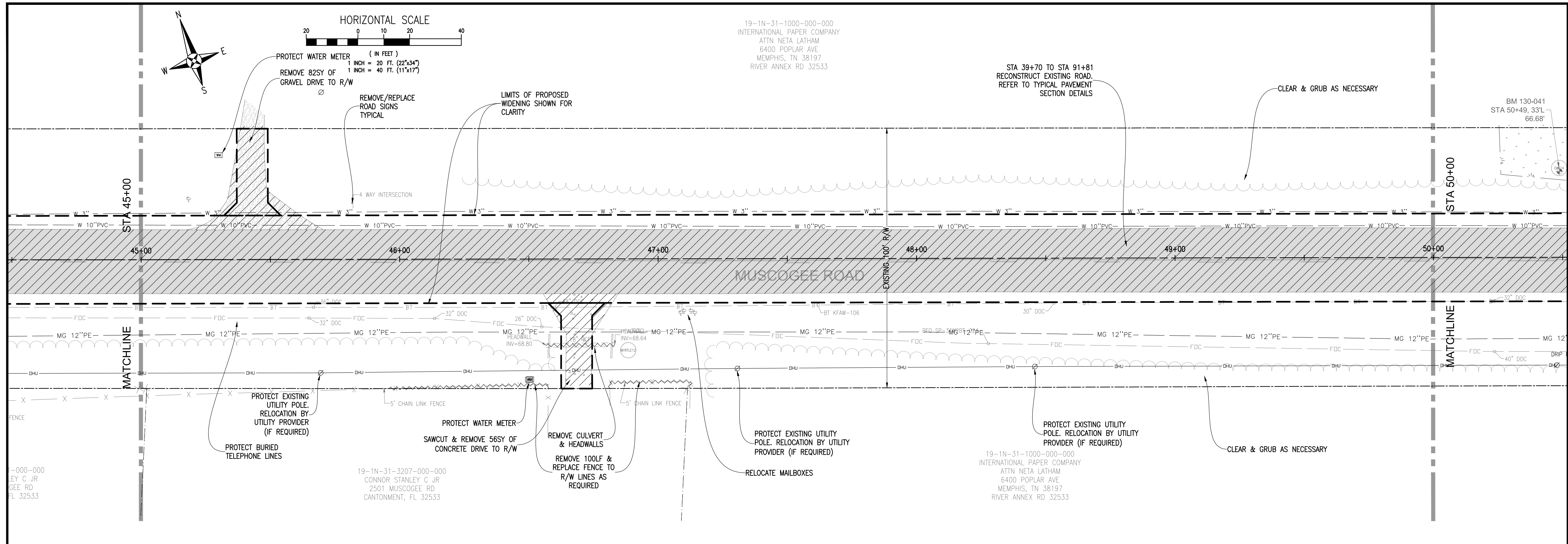


REBOL-BATTLE & ASSOCIATES
 Civil Engineers and Surveyors
 2301 N. 9th Ave., Suite 300, Pensacola, Florida 32503
 Telephone 850.438.0400 Fax 850.438.0448



DRAWN BY: C. DUELLMAN	CHECKED BY: P. BATTLE / J. REBOL	DATE: MARCH 2016	DATE: 3-10-2016	REG. P.L.A. NO. 53126	SIGNATURE:
PROJECT MANAGER: E. BUSH		INSTRUCT: S		SECTION / TOWNSHIP / RANGE 8-11-14-19 / 1N / 31W	

DRAWING NUMBER	L-4814
PROJECT NUMBER	ENG412
SURVEY NUMBER	2012.041



19-1N-31-1000-000-000
INTERNATIONAL PAPER COMPANY
ATTN: NETA LATHAM
6400 POPLAR AVE
MEMPHIS, TN 38197
RIVER ANNEX RD 32533

STA 39+70 TO STA 91+81
RECONSTRUCT EXISTING ROAD.
REFER TO TYPICAL PAVEMENT
SECTION DETAILS

BM 130-041
STA 50+49.33'L
66.68'

19-1N-31-3207-000-000
CONNOR STANLEY C JR
2501 MUSCOGEE RD
CANTONMENT, FL 32533

19-1N-31-1000-000-000
INTERNATIONAL PAPER COMPANY
ATTN: NETA LATHAM
6400 POPLAR AVE
MEMPHIS, TN 38197
RIVER ANNEX RD 32533

19-1N-31-1000-000-000
INTERNATIONAL PAPER COMPANY
ATTN: NETA LATHAM
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MEMPHIS, TN 38197
RIVER ANNEX RD 32533

19-1N-31-1000-000-000
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ATTN: NETA LATHAM
6400 POPLAR AVE
MEMPHIS, TN 38197
RIVER ANNEX RD 32533

MUSCOGEE ROAD
WIDENING AND DRAINAGE IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN
STA 45+00 TO STA 55+00



REBOL-BATTLE & ASSOCIATES
Civil Engineers and Surveyors
2001 N 9th Ave, Suite 300, Pensacola, Florida 32503
Telephone 850.438.0400 Fax 850.438.0448

DATE: 7-5-2012

PROJECT NO: 53126

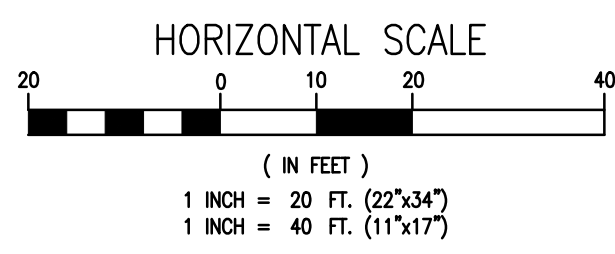
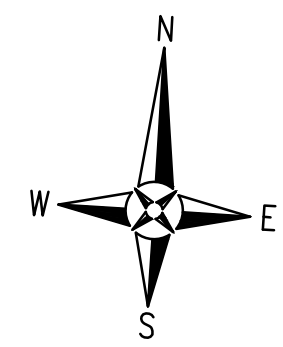
PROJECT NAME: MUSCOGEE ROAD WIDENING AND DRAINAGE IMPROVEMENTS

SECTION/TOWNSHIP/RANGE: 8-11/14-19/1N/31W/13/32W

NO.	DATE	APPROVAL

DRAWING NUMBER	L-4814
PROJECT NUMBER	ENG412
SURVEY NUMBER	2012.041
SHEET	7 OF

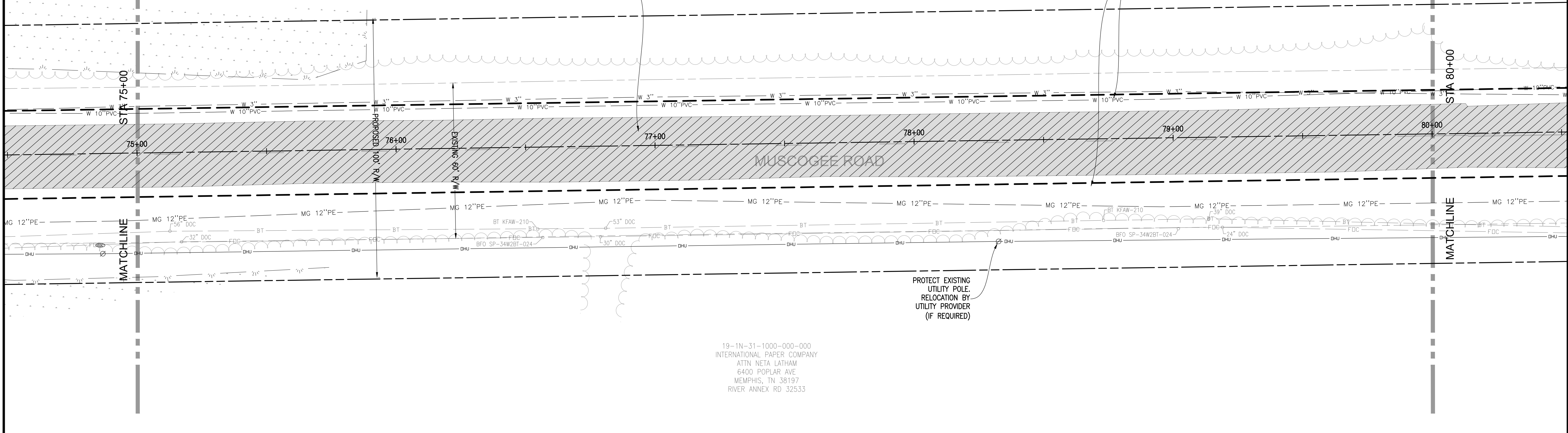
60% SUBMITTAL



19-1N-31-1000-000-000
INTERNATIONAL PAPER COMPANY
ATTN: NETA LATHAM
6400 POPLAR AVE
MEMPHIS, TN 38197
RIVER ANNEX RD 32533

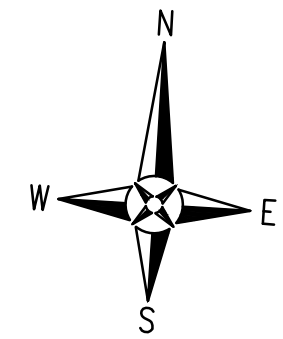
STA 39+70 TO STA 91+81
RECONSTRUCT EXISTING ROAD.
REFER TO TYPICAL PAVEMENT
SECTION DETAILS

LIMITS OF PROPOSED
WIDENING SHOWN FOR
CLARITY



PROTECT EXISTING
UTILITY POLE.
RELOCATION BY
UTILITY PROVIDER
(IF REQUIRED)

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MEMPHIS, TN 38197
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CLEAR & GRUB
AS NECESSARY

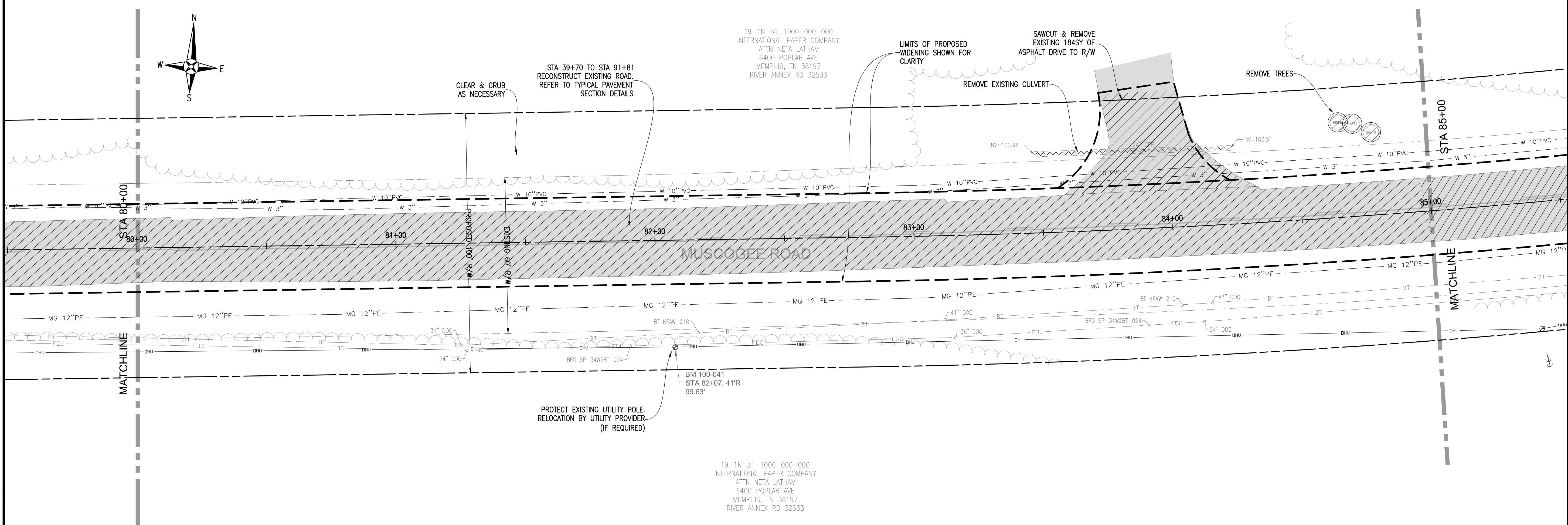
STA 39+70 TO STA 91+81
RECONSTRUCT EXISTING ROAD.
REFER TO TYPICAL PAVEMENT
SECTION DETAILS

LIMITS OF PROPOSED
WIDENING SHOWN FOR
CLARITY

SAWCUT & REMOVE
EXISTING 1845Y OF
ASPHALT DRIVE TO R/W

REMOVE TREES

REMOVE EXISTING CULVERT



PROTECT EXISTING
UTILITY POLE.
RELOCATION BY
UTILITY PROVIDER
(IF REQUIRED)

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INTERNATIONAL PAPER COMPANY
ATTN: NETA LATHAM
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MEMPHIS, TN 38197
RIVER ANNEX RD 32533

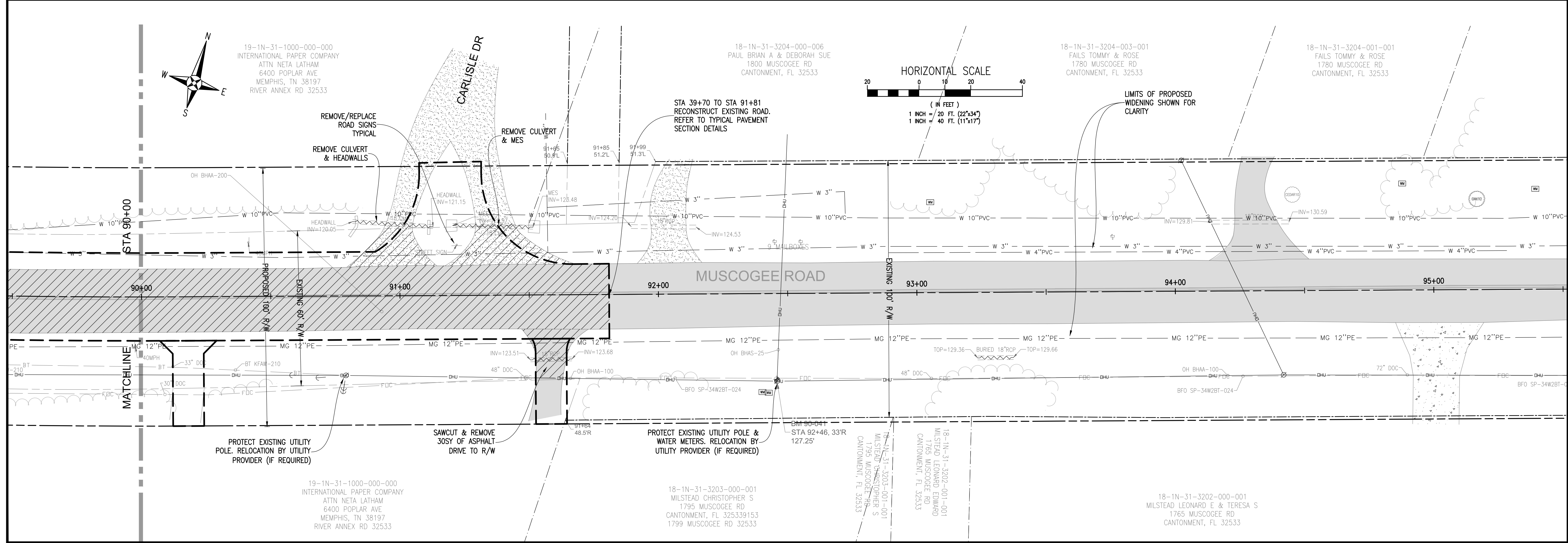
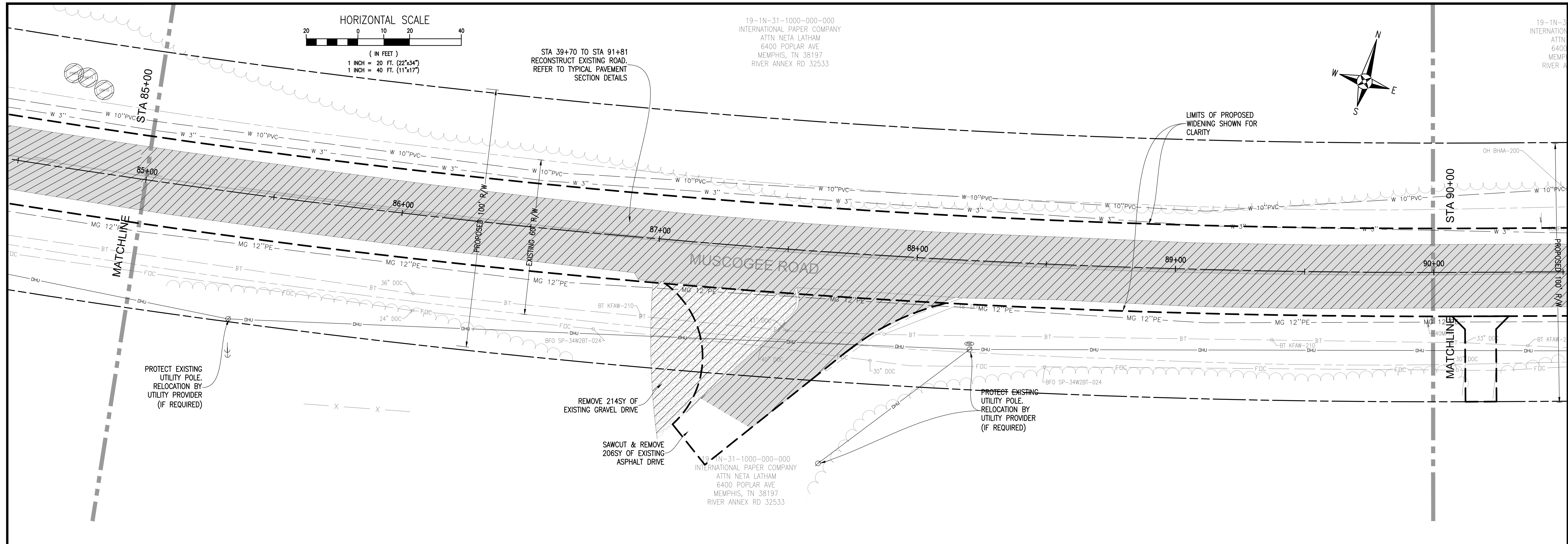
MUSCOGEE ROAD
WIDENING AND DRAINAGE IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN
STA 75+00 TO STA 85+00



REBOL-BATTLE & ASSOCIATES Civil Engineers and Surveyors 2301 N 9th Ave, Suite 300, Pensacola, Florida 32503 Telephone 850.438.0400 Fax 850.438.0448	
DATE:	7-5-2012
PROJECT NO:	53126
CHECKED BY:	P. BATTLE, P.E.
DRAWN BY:	C. DUELLMAN
DATE:	JULY 2, 2012
PROJECT MANAGER:	E. BUSH
SECTION/TOWNSHIP/RANGE:	8-11-14-19 / 1N / 31W / 13 / 1N / 32 W
FIELD BOOK PAGES:	

REVISIONS	DATE	APPROVAL
DRAWING NUMBER	L-4814	
PROJECT NUMBER	ENG412	
SURVEY NUMBER	2012.041	
SHEET	10 OF	

60% SUBMITTAL



19-1N-31-1000-000-000
INTERNATIONAL PAPER COMPANY
ATTN NETA LATHAM
6400 POPLAR AVE
MEMPHIS, TN 38197
RIVER ANNEX RD 32533

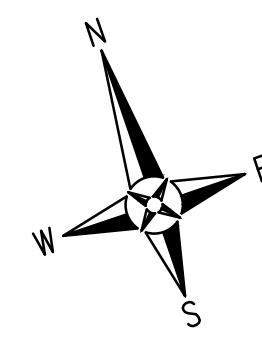
19-1N-3
INTERNATIONAL
ATTN
6400
MEMPH
RIVER A

MUSCOGEE ROAD
WIDENING AND DRAINAGE IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN
STA 85+00 TO STA 95+00

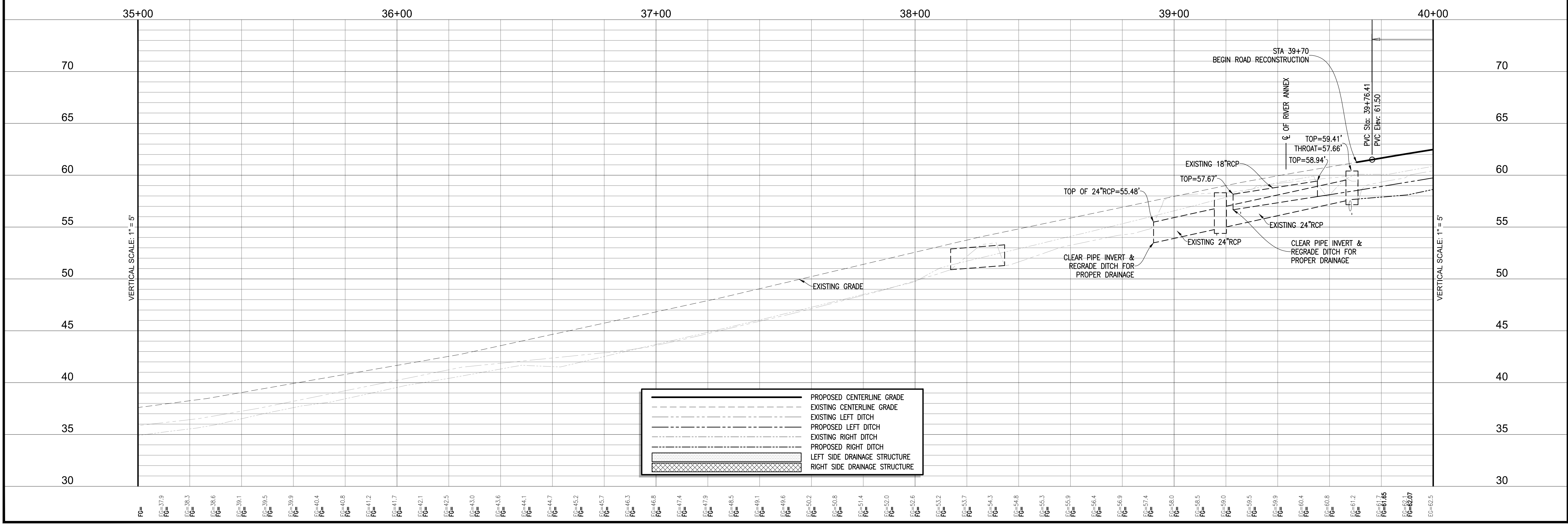
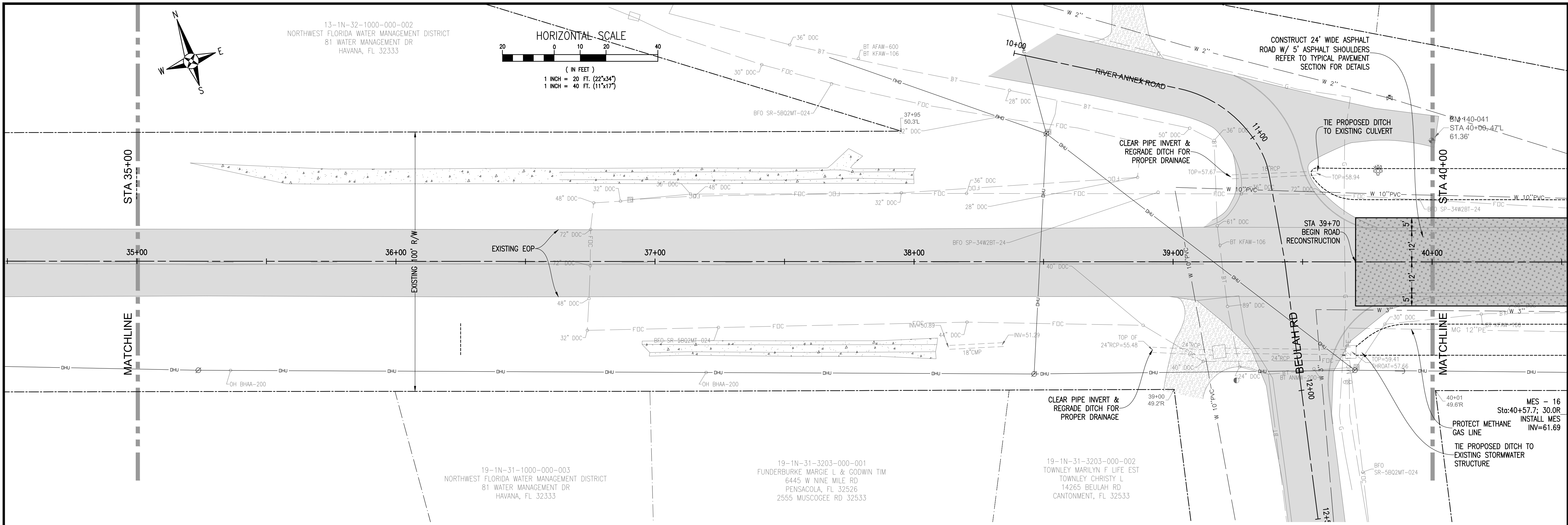
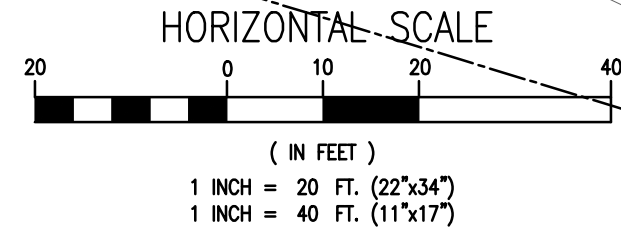


REBOL-BATTLE & ASSOCIATES Civil Engineers and Surveyors 2301 N 9th Ave, Suite 300, Pensacola, Florida 32503 Telephone 850.438.0400 Fax 850.438.0448		DATE: 7-5-2012
CHECKED BY: P. BATTLE / J. REBOL	PROJECT MANAGER: E. BUSH	REG. FLA. ENG. NO.: 53126
DRAWN BY: C. DIEHLMAN	DATE: JULY 2012	SECTION/TOWNSHIP/RANGE: 8-11-14-19 / N. 13 / W. 13 / N. 32 W.
APPROVALS:	REVISIONS:	
DATE:	APPROVAL:	
NUMBER:	DRAWING NUMBER: L-4814	
	PROJECT NUMBER: ENG412	
	SURVEY NUMBER: 2012.041	
	SHEET 11 OF	

60% SUBMITTAL



13-1N-32-1000-000-002
NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
81 WATER MANAGEMENT DR
HAVANA, FL 32333



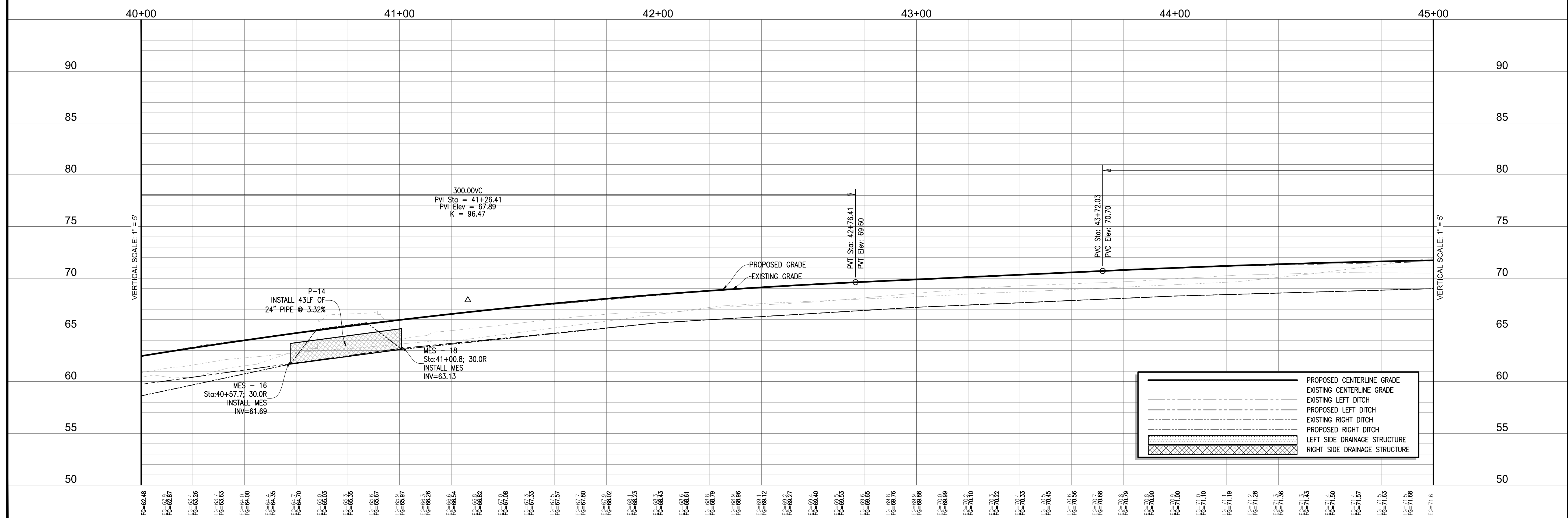
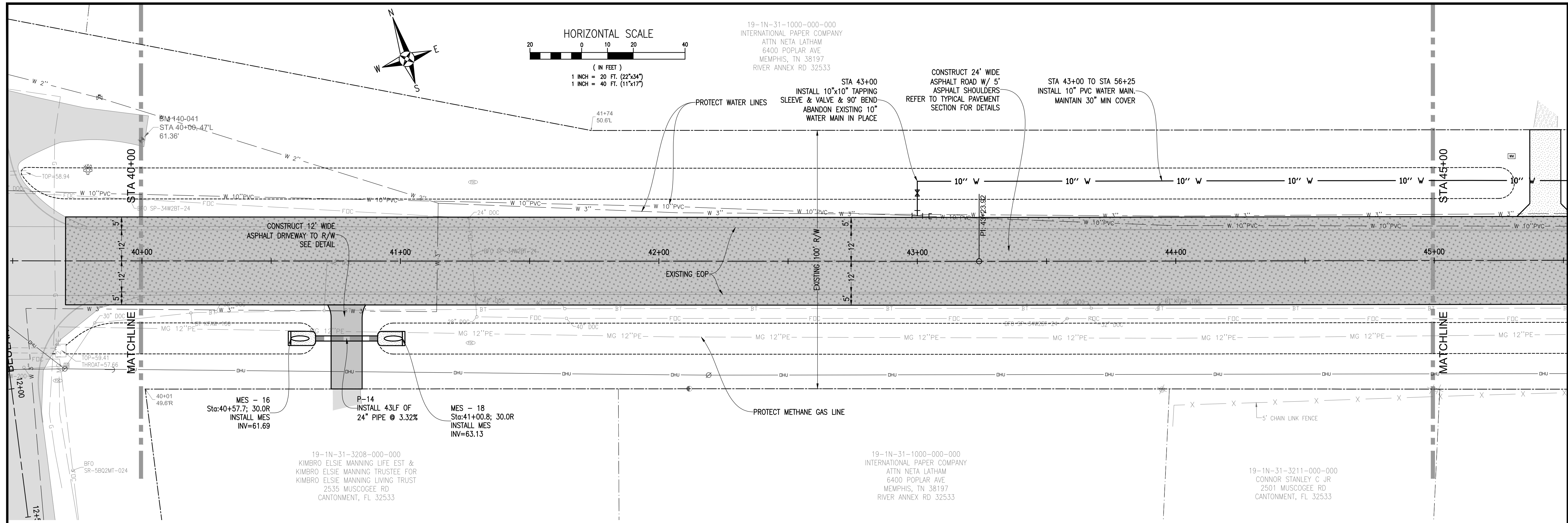
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	EXISTING CENTERLINE GRADE
	EXISTING LEFT DITCH
	PROPOSED LEFT DITCH
	EXISTING RIGHT DITCH
	PROPOSED RIGHT DITCH
	LEFT SIDE DRAINAGE STRUCTURE
	RIGHT SIDE DRAINAGE STRUCTURE

MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS
PLAN & PROFILE
STA 35+00 - STA 40+00



REBOL-BATTLE & ASSOCIATES Civil Engineers and Surveyors 2001 N. 9th Ave., Suite 300, Pensacola, Florida 32503 Telephone 850.438.0000 Fax 850.438.0448	
DATE: 3-10-2016	REVISIONS:
CHECKED BY: P. BATTLE / J. REBOL	PROJECT NUMBER: ENG412
PROJECT MANAGER: E. BUSH	DATE: MARCH 2016
SECTION TOWNSHIP RANGE: 8-11-14-19 / 1N / 31W / 13 / 1N / 32 W	FIELD BOOK PAGES:
DRAWN BY: C. DUELLMAN	DRAWING NUMBER: L-4814
DATE: MARCH 2016	PROJECT NUMBER: ENG412
FIELD BOOK PAGES:	SURVEY NUMBER: 2012.041
	SHEET 12 OF

60% SUBMITTAL



MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS
PLAN & PROFILE
STA 40+00 - STA 45+00

ESCAMPIA COUNTY
FLORIDA

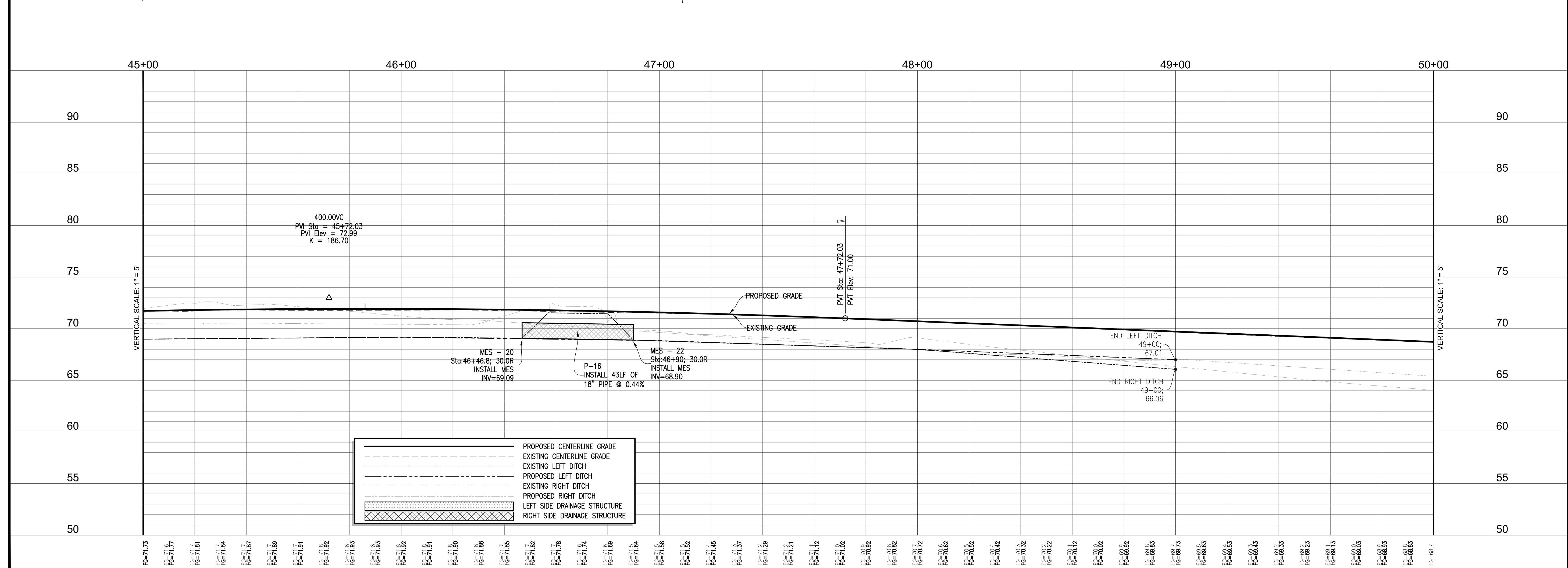
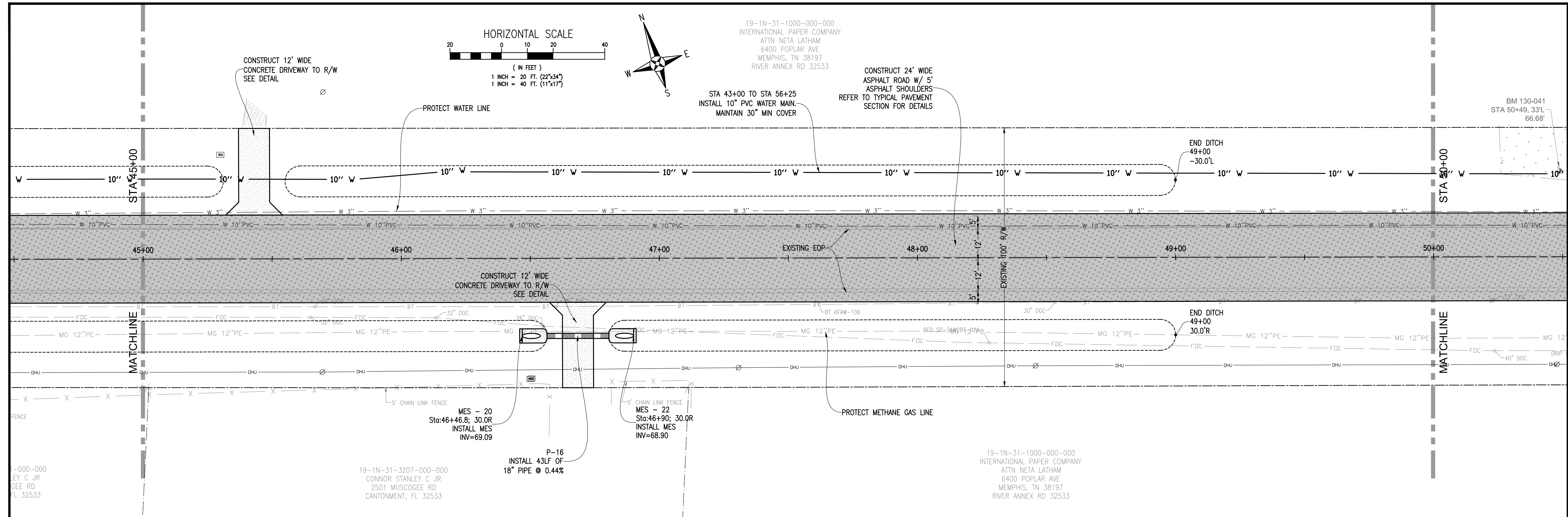
REBOL-BATTLE & ASSOCIATES
Civil Engineers and Surveyors
2001 N 9th Ave, Suite 300, Pensacola, Florida 32503
Telephone 850.438.0400 Fax 850.438.0448

DATE: 3-10-2016
REG. P.L.A. NO. 53126
SIGNATURE:

DRAWN BY: C. DUELLMAN
CHECKED BY: P. BATTLE / J. REBOL
PROJECT MANAGER: E. BUSH
DATE: MARCH 2016
FIELD BOOK PAGES: 8-11, 14-19, 21, 31W, 13 / IN. 32 W

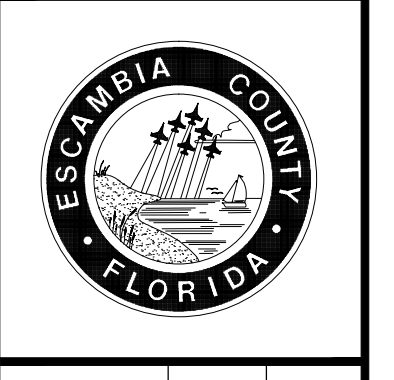
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PROJECT NUMBER: ENG412
SURVEY NUMBER: 2012.041
SHEET 13 OF

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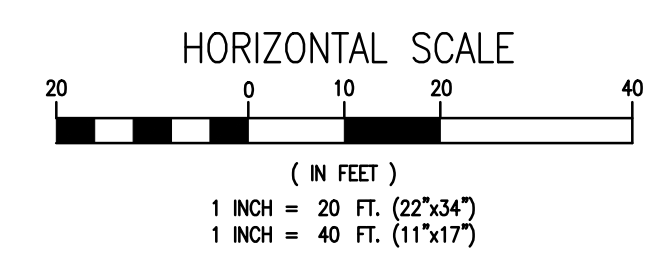
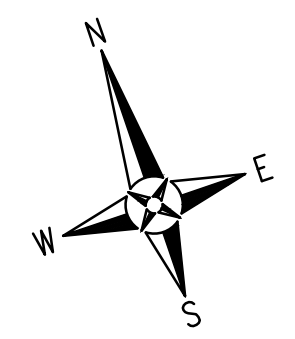


MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS

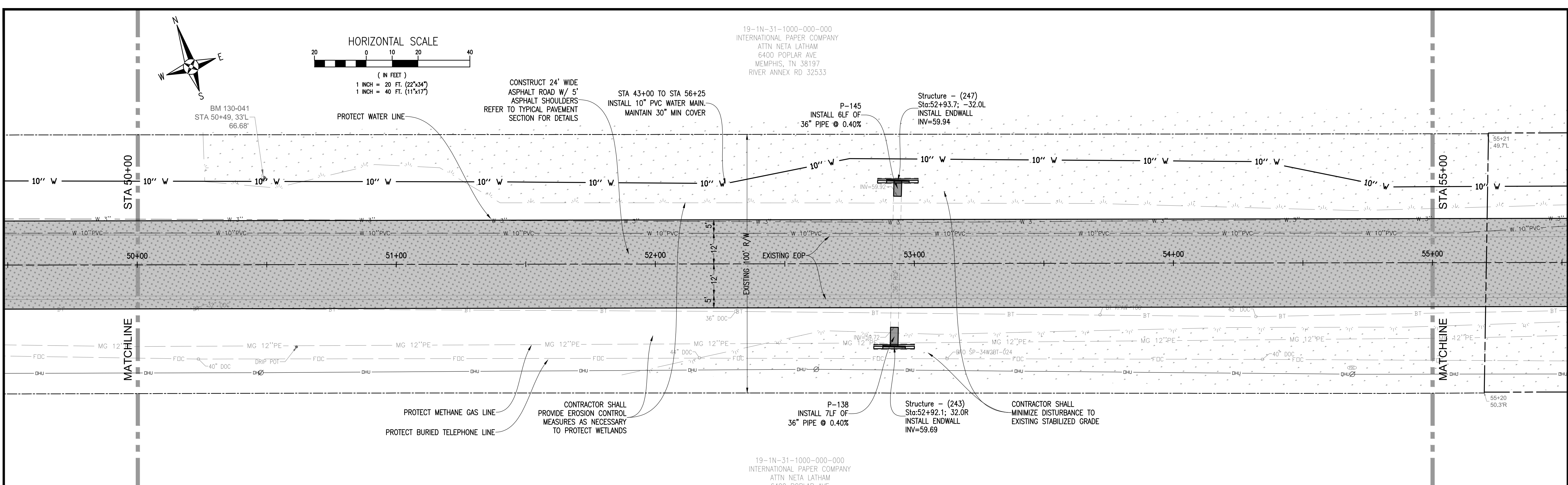
PLAN & PROFILE
STA 45+00 - STA 50+00



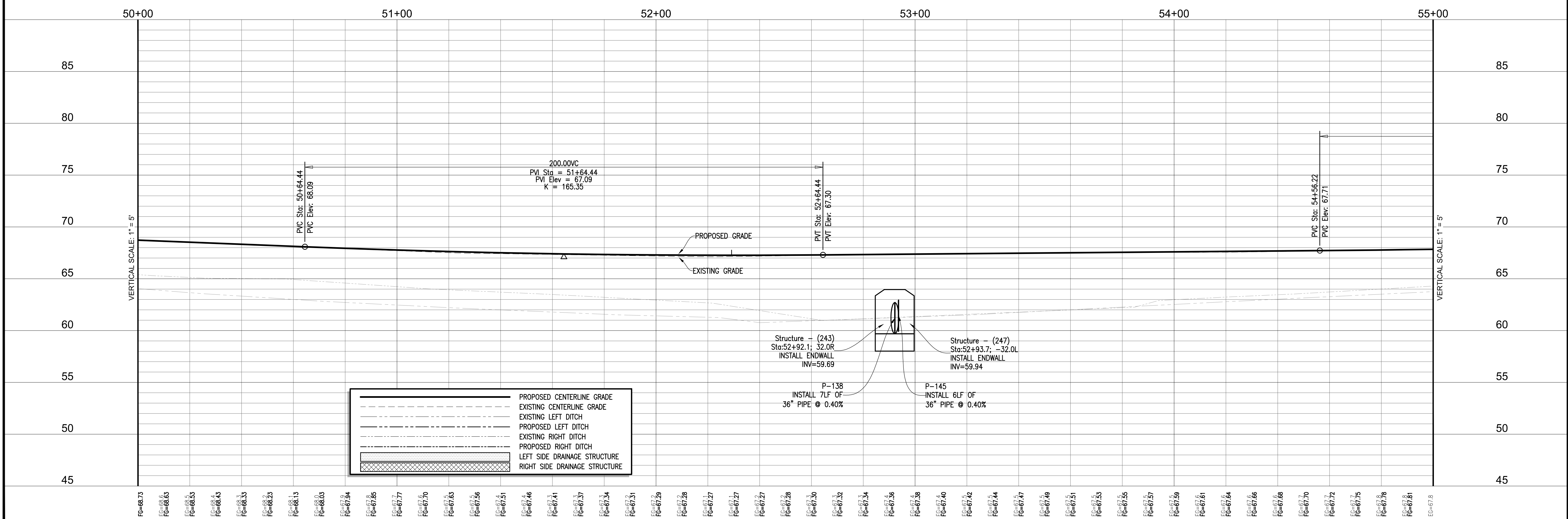
REBOL-BATTLE & ASSOCIATES Civil Engineers and Surveyors 2001 N. 9th Ave., Suite 300, Pensacola, Florida 32503 Telephone 850.438.0000 Fax 850.438.0448		DATE: 3-10-2016
DESIGNED BY: P. BATTLE / J. REBOL	CHECKED BY: P. BATTLE / P. BATTLE, P.E.	REG. P.L.A. ENG. NO.: 53126
DRAWN BY: C. DUELLMAN	PROJECT MANAGER: E. BUSH	INSTRUCT: S
DATE: MARCH 2016	SECTION TOWNSHIP RANGE: 8-11-14-19 / IN. / 31W. / 13 / IN. / 32 W	SIGNATURE:
FIELD BOOK PAGES:		
DATE: APPROVAL:		
NUMBER:		
DRAWING NUMBER:	L-4814	
PROJECT NUMBER:	ENG412	
SURVEY NUMBER:	2012.041	
SHEET:	14	OF



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ATTN: NETA LATHAM
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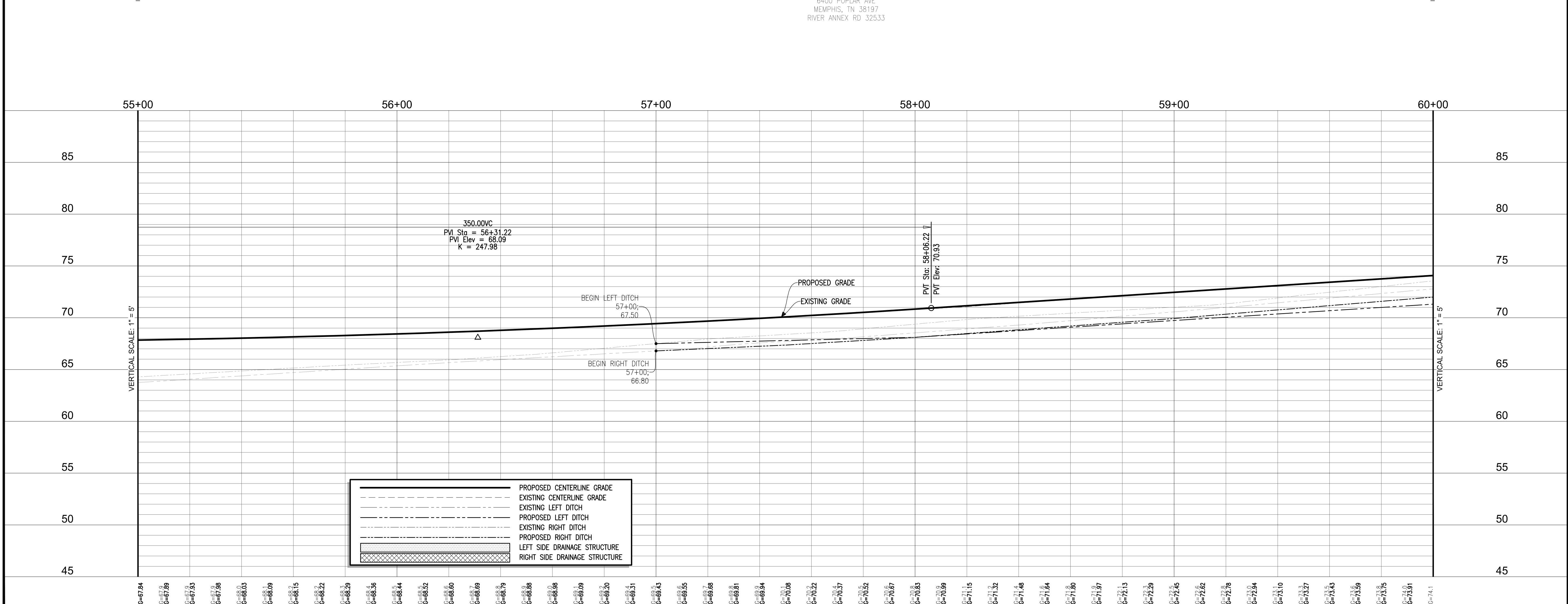
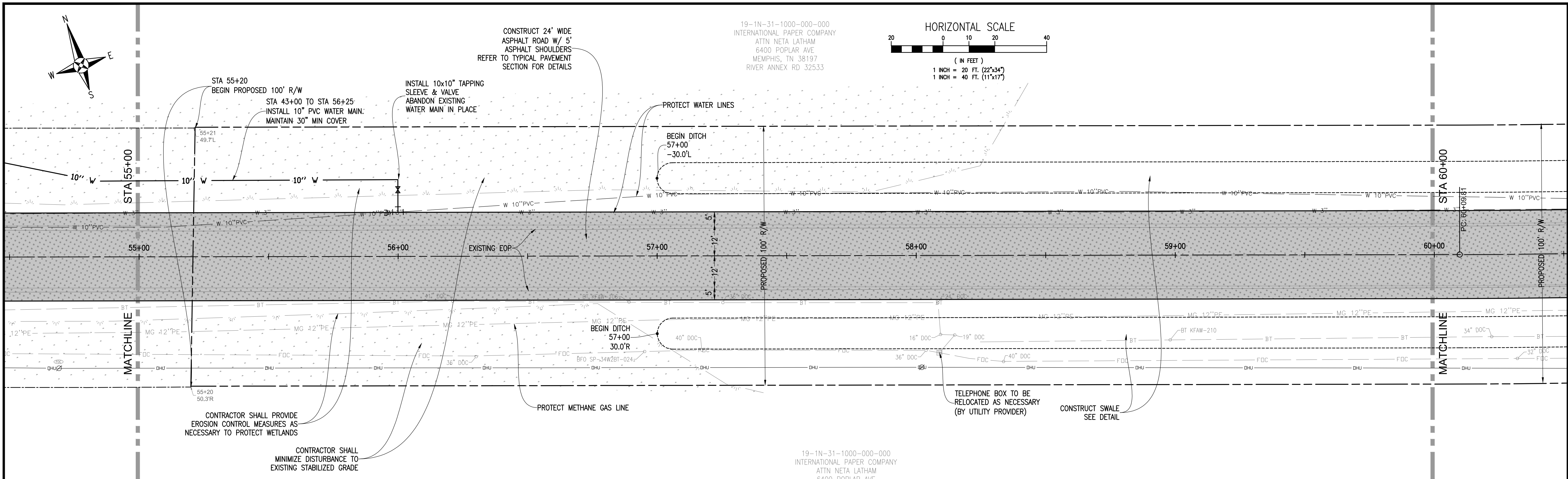
	PROPOSED CENTERLINE GRADE
	EXISTING CENTERLINE GRADE
	EXISTING LEFT DITCH
	PROPOSED LEFT DITCH
	EXISTING RIGHT DITCH
	PROPOSED RIGHT DITCH
	LEFT SIDE DRAINAGE STRUCTURE
	RIGHT SIDE DRAINAGE STRUCTURE

MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS
PLAN & PROFILE
STA 50+00 - STA 55+00

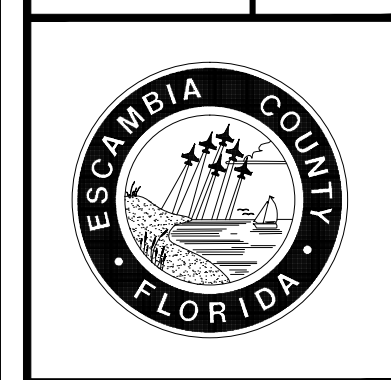


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DATE: 3-10-2016	REG. P.L.A. NO. 53126
CHECKED BY: P. BATTLE / J. REBOL	PROJECT MANAGER: E. BUSH
DRAWN BY: C. DUELLMAN	DATE: MARCH 2016
SECTION: TOWNSHIP RANGE	FIELD BOOK PAGES: 8-11, 14-19 / IN. / 31W. / 13 / IN. / 32 W
DATE: APPROVED:	
REVISIONS:	
DRAWING NUMBER: L-4814	
PROJECT NUMBER: ENG412	
SURVEY NUMBER: 2012.041	
SHEET: 15	OF: 15

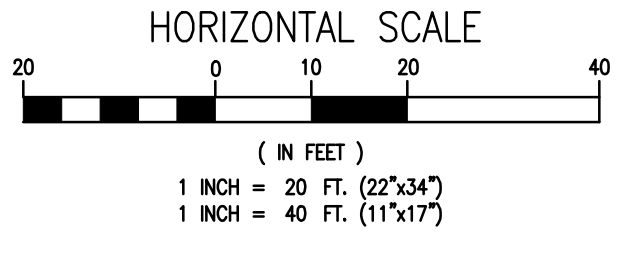
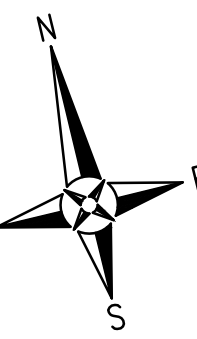
60% SUBMITTAL



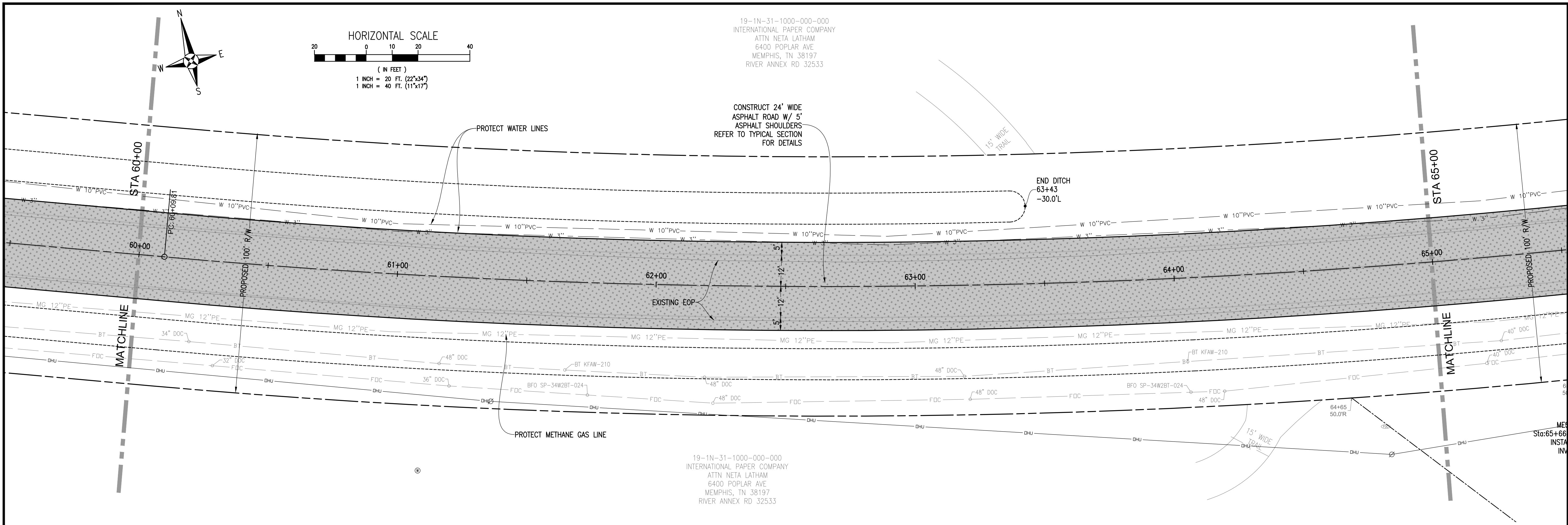
MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS
PLAN & PROFILE
STA 55+00 - STA 60+00



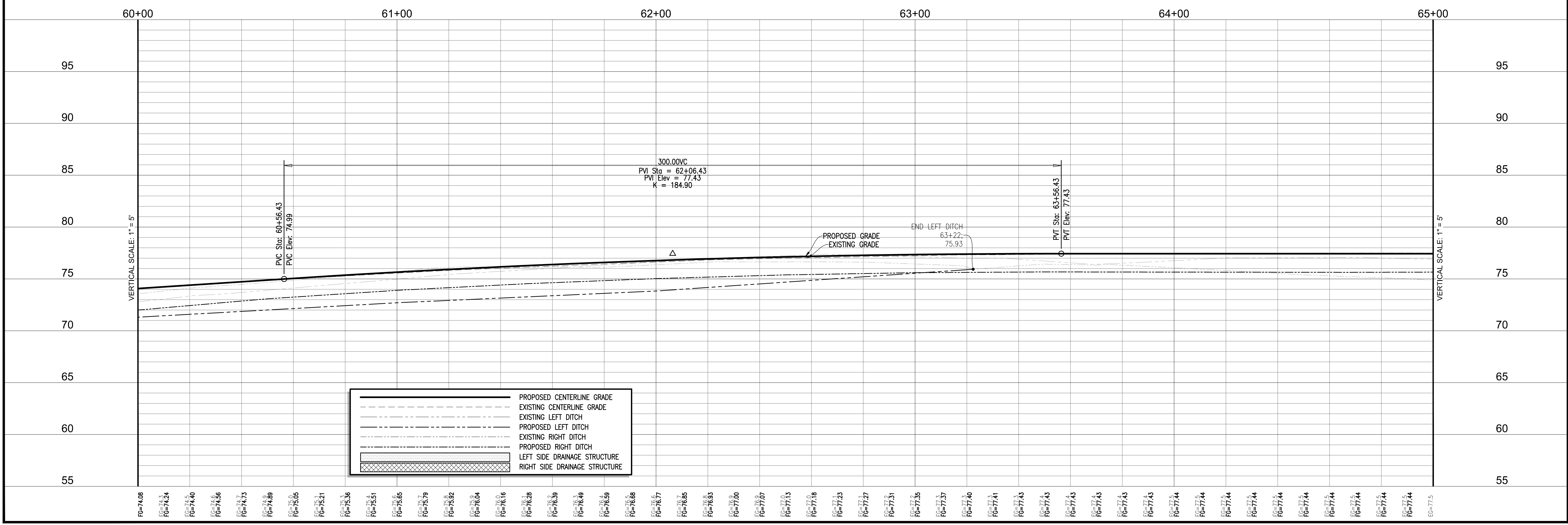
REBOL-BATTLE & ASSOCIATES Civil Engineers and Surveyors 2001 N 9th Ave, Suite 300, Pensacola, Florida 32503 Telephone 850.438.0000 Fax 850.438.0448		DATE: 3-10-2016
DESIGNED BY: P. BATTLE / J. REBOL	CHECKED BY: P. BATTLE / P. BATTLE, P.E.	REG. P.L.A. ENG. NO.: 53126
DRAWN BY: C. DUELLMAN	PROJECT MANAGER: E. BUSH	SIGNATURE:
DATE: MARCH 2016	SECTION/TOWNSHIP/RANGE: 8-11-14-19 / 1N / 31W / 13 / 1N / 32 W	
FIELD BOOK PAGES:		
DATE: APPROVED:		
NUMBER:		
DRAWING NUMBER: L-4814		
PROJECT NUMBER: ENG412		
SURVEY NUMBER: 2012.041		
SHEET 16 OF		



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19-1N-31-1000-000-000
INTERNATIONAL PAPER COMPANY
ATTN: NETA LATHAM
6400 POPLAR AVE
MEMPHIS, TN 38197
RIVER ANNEX RD 32533



	PROPOSED CENTERLINE GRADE
	EXISTING CENTERLINE GRADE
	EXISTING LEFT DITCH
	PROPOSED LEFT DITCH
	EXISTING RIGHT DITCH
	PROPOSED RIGHT DITCH
	LEFT SIDE DRAINAGE STRUCTURE
	RIGHT SIDE DRAINAGE STRUCTURE

MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS

PLAN & PROFILE
STA 60+00 - STA 65+00

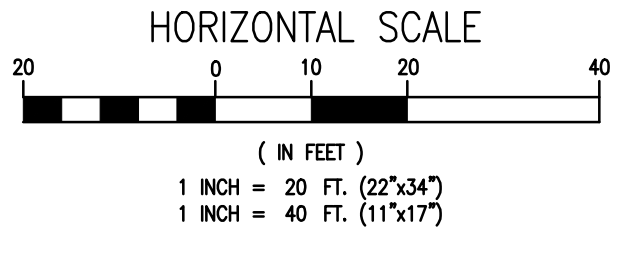
REBOL-BATTLE & ASSOCIATES
Civil Engineers and Surveyors
2001 N 9th Ave, Suite 300, Pensacola, Florida 32503
Telephone 850.438.0000 Fax 850.438.0448

DATE: 3-10-2016
REG. P.L.A. NO.: 53126
SECTION TOWNSHIP RANGE: 8-11-14-19 / 1N / 31W / 13 / IN / 32 W

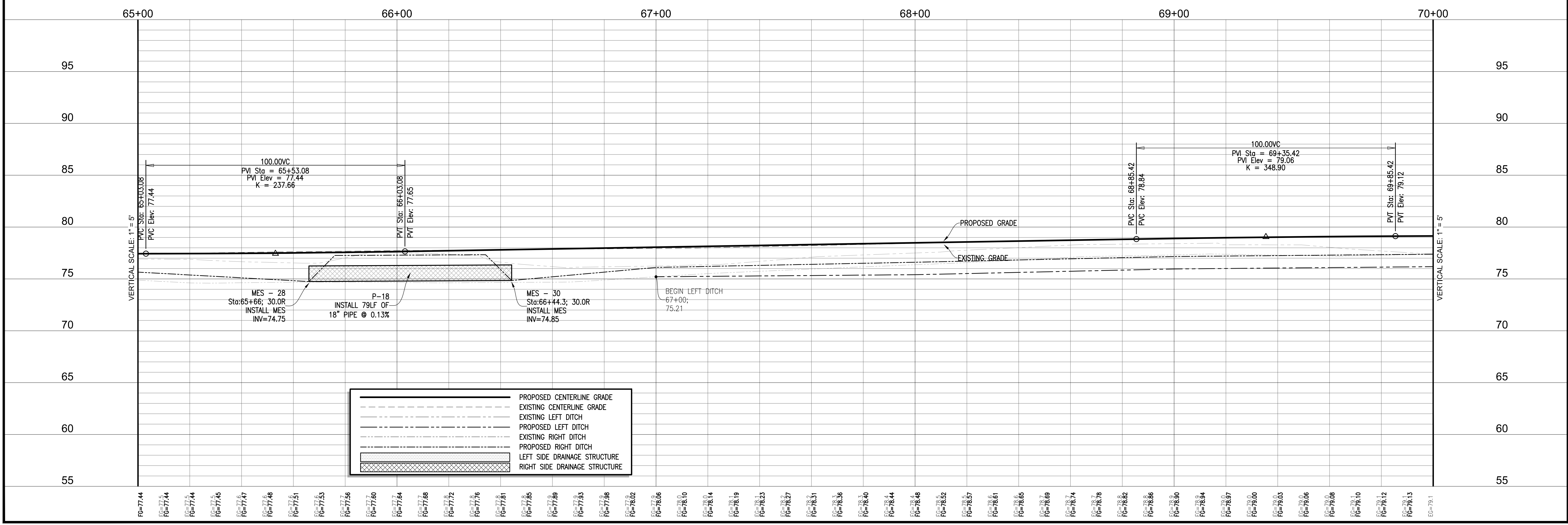
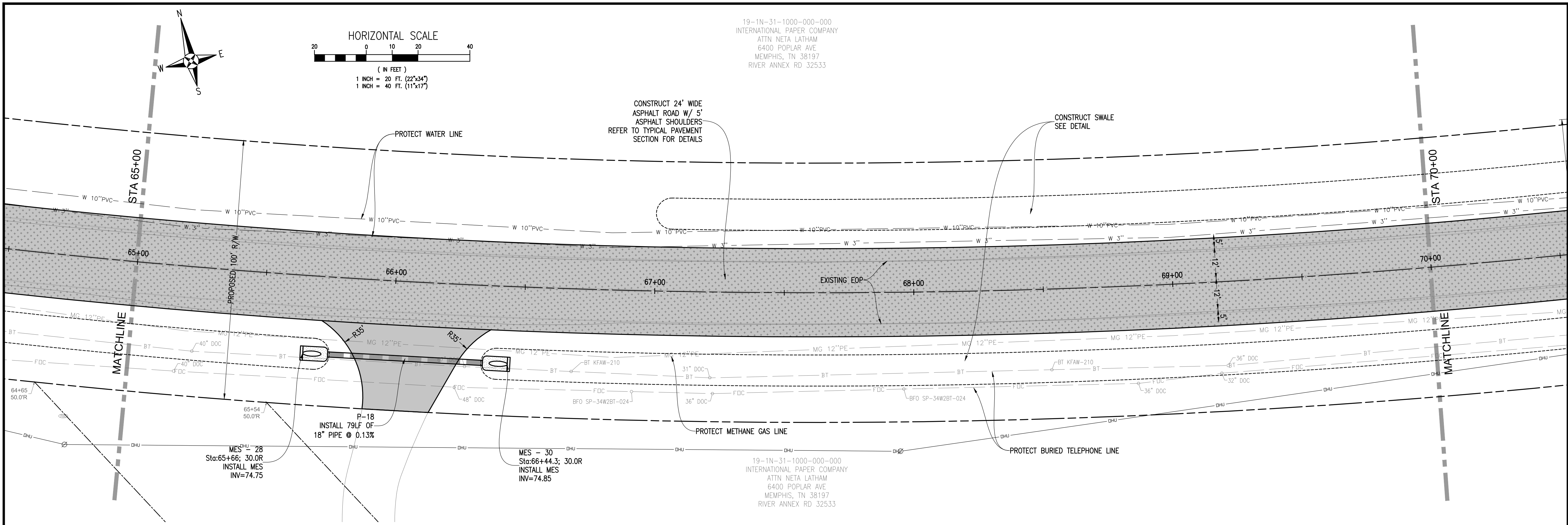
DRAWN BY: C. DUELLMAN
CHECKED BY: P. BATTLE / J. REBOL
PROJECT MANAGER: E. BUSH
DATE: MARCH 2016
FIELD BOOK PAGES:

DRAWING NUMBER: L-4814
PROJECT NUMBER: ENG412
SURVEY NUMBER: 2012.041
SHEET 17 OF

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INTERNATIONAL PAPER COMPANY
ATTN: NETA LATHAM
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	PROPOSED CENTERLINE GRADE
	EXISTING CENTERLINE GRADE
	EXISTING LEFT DITCH
	PROPOSED LEFT DITCH
	EXISTING RIGHT DITCH
	PROPOSED RIGHT DITCH
	LEFT SIDE DRAINAGE STRUCTURE
	RIGHT SIDE DRAINAGE STRUCTURE

MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS
PLAN & PROFILE
STA 65+00 - STA 70+00



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Civil Engineers and Surveyors
2001 N. 9th Ave., Suite 300, Pensacola, Florida 32503
Telephone 850.438.0400 Fax 850.438.0448

DATE: 3-10-2016
REG. P.L.A. NO.: 53126
PROJECT NO.: 13-114-19

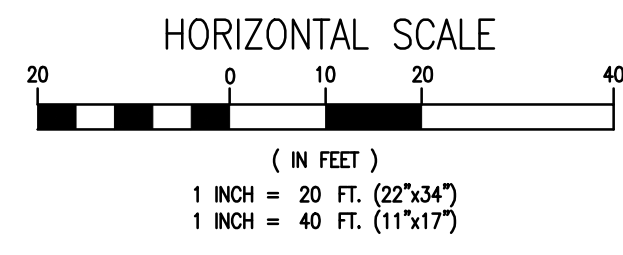
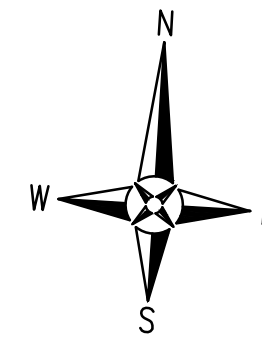
DRAWN BY: C. DUELLMAN
CHECKED BY: P. BATTLE / J. REBOL
PROJECT MANAGER: E. BUSH
INSTRUCT: S

SECTION TOWNSHIP RANGE: 8-11-14-19 / N. 13 W. / 13 N. / 32 W.

DRAWING NUMBER: L-4814
PROJECT NUMBER: ENG412
SURVEY NUMBER: 2012.041

SHEET 18 OF 18

60% SUBMITTAL



STA 73+00 TO STA 93+00
INSTALL 10" PVC WATER MAIN
MAINTAIN 30" MIN COVER

CONSTRUCT 24' WIDE
ASPHALT ROAD W/ 5'
ASPHALT SHOULDERS
TO TYPICAL PAVEMENT
SECTION FOR DETAILS

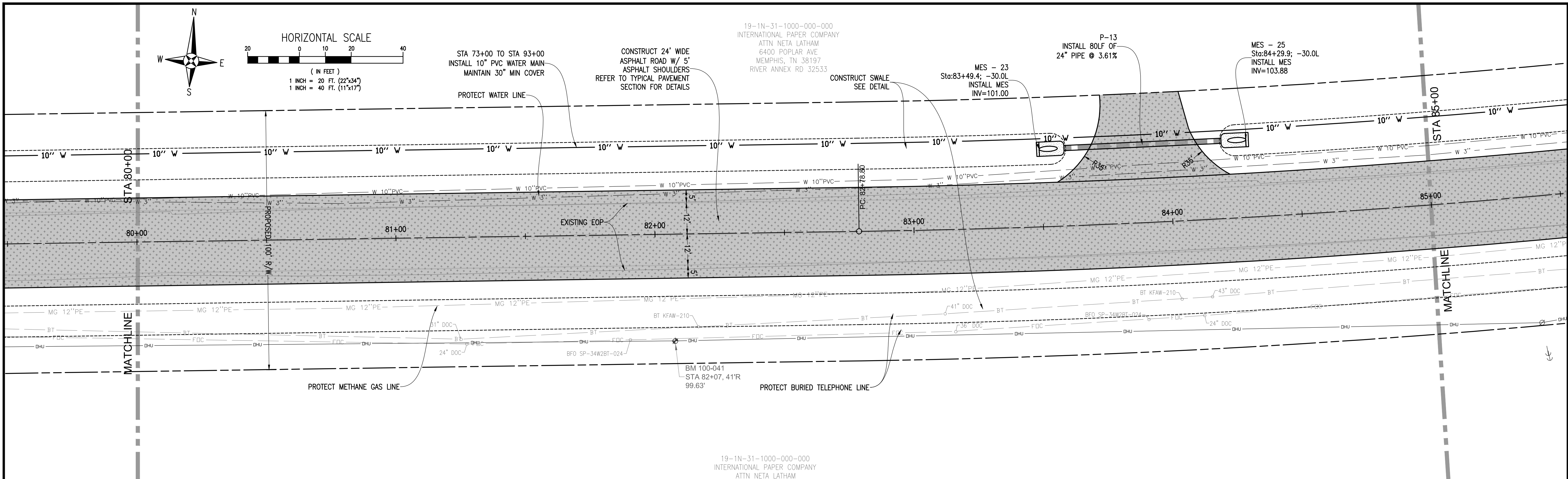
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INTERNATIONAL PAPER COMPANY
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MEMPHIS, TN 38197
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P-13
INSTALL 80LF OF
24" PIPE @ 3.61%

MES - 25
Sta:84+29.9; -30.0L
INSTALL MES
INV=103.88

MES - 23
Sta:83+49.4; -30.0L
INSTALL MES
INV=101.00

CONSTRUCT SWALE
SEE DETAIL



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80+00

81+00

82+00

83+00

84+00

85+00

120
115
110
105
100
95
90
85
80

120
115
110
105
100
95
90
85
80

VERTICAL SCALE: 1" = 5'

VERTICAL SCALE: 1" = 5'

	PROPOSED CENTERLINE GRADE
	EXISTING CENTERLINE GRADE
	EXISTING LEFT DITCH
	PROPOSED LEFT DITCH
	EXISTING RIGHT DITCH
	PROPOSED RIGHT DITCH
	LEFT SIDE DRAINAGE STRUCTURE
	RIGHT SIDE DRAINAGE STRUCTURE

FG=91.67 FG=91.8 FG=91.96 FG=92.26 FG=92.57 FG=92.88 FG=93.0 FG=93.14 FG=93.50 FG=93.7 FG=94.0 FG=94.14 FG=94.77 FG=94.80 FG=95.13 FG=95.3 FG=95.7 FG=95.80 FG=96.0 FG=96.4 FG=96.49 FG=96.84 FG=97.20 FG=97.56 FG=97.9 FG=98.2 FG=98.6 FG=98.65 FG=99.0 FG=99.02 FG=99.39 FG=99.76 FG=100.12 FG=100.5 FG=100.49 FG=100.9 FG=100.86 FG=101.23 FG=101.60 FG=101.97 FG=102.34 FG=102.71 FG=103.07 FG=103.5 FG=103.44 FG=103.81 FG=104.16 FG=104.55 FG=104.92 FG=105.29 FG=105.66 FG=106.03 FG=106.45 FG=106.76 FG=107.12 FG=107.47 FG=107.82 FG=108.1 FG=108.49 FG=108.82 EG=109.1

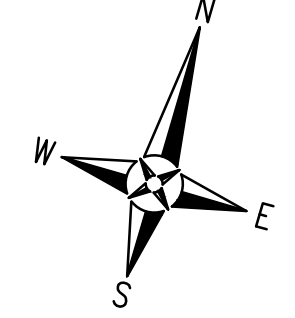
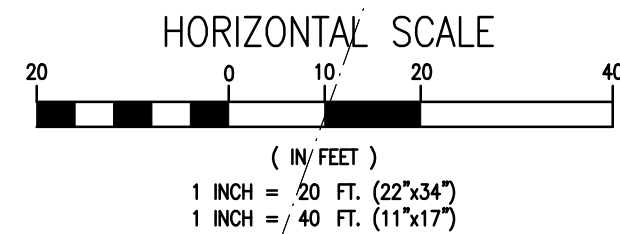
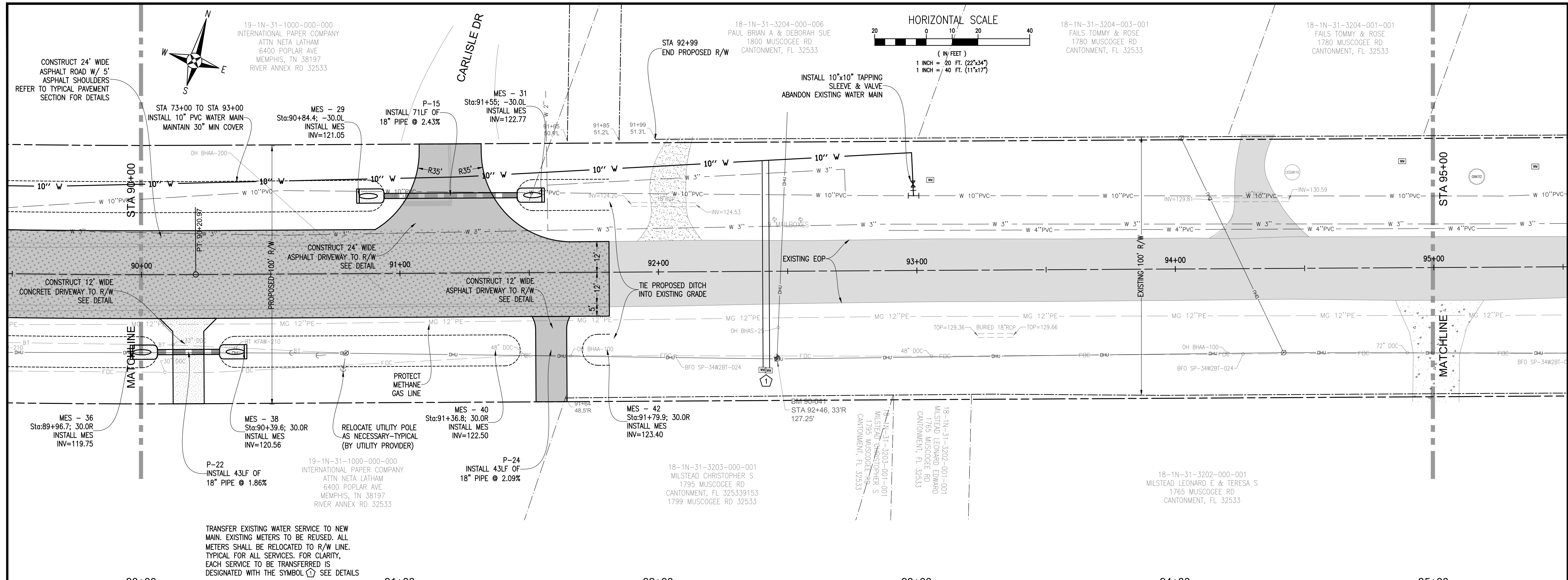
MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS
PLAN & PROFILE
STA 80+00 - STA 85+00



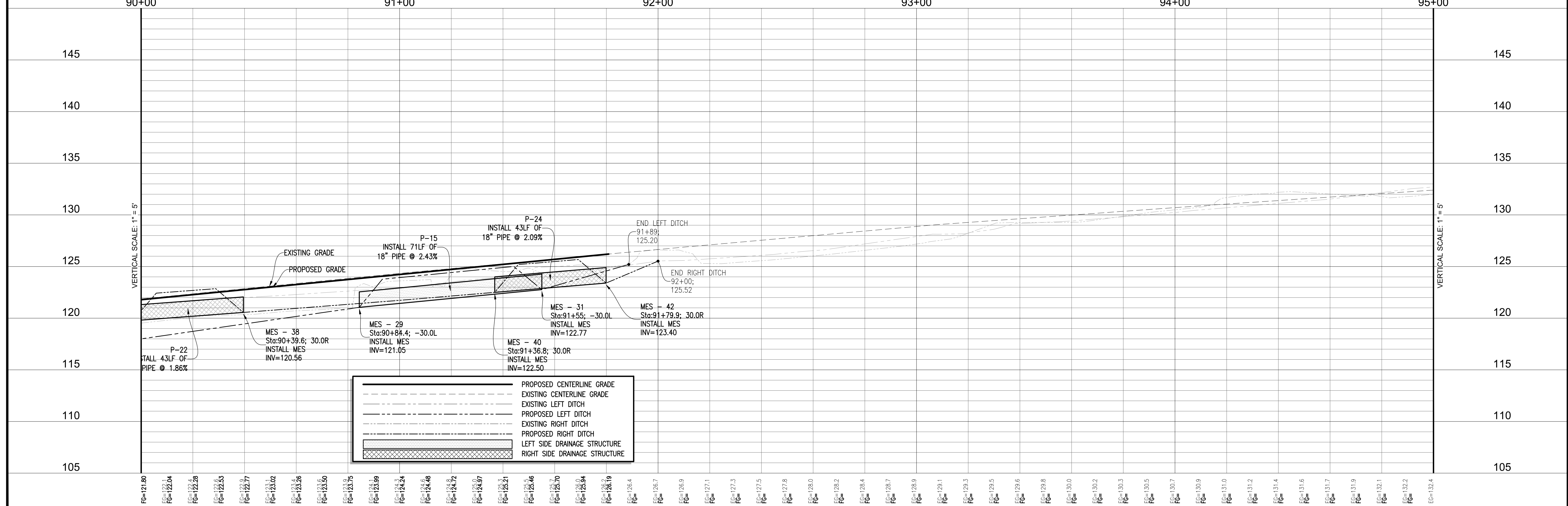
REBOL-BATTLE & ASSOCIATES Civil Engineers and Surveyors 2001 N 9th Ave, Suite 300, Pensacola, Florida 32503 Telephone 850.438.0000 Fax 850.438.0448	
DATE: 3-10-2016	REG. P.L.A. NO. 53126
CHECKED BY: P. BATTLE / J. REBOL	INSTRUCT: S
PROJECT MANAGER: E. BUSH	SECTION, TOWNSHIP, RANGE: 8-11, 14-19 / 1N / 31W / 13 / 31 W
DRAWN BY: C. DIELLMAN	FIELD BOOK PAGES:
DATE: MARCH 2016	
SIGNATURE:	

DATE	APPROVAL
REVISIONS	
NUMBER	
DRAWING NUMBER	L-4814
PROJECT NUMBER	ENG412
SURVEY NUMBER	2012.041
SHEET	21 OF

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TRANSFER EXISTING WATER SERVICE TO NEW MAIN. EXISTING METERS TO BE REUSED. ALL METERS SHALL BE RELOCATED TO R/W LINE. TYPICAL FOR ALL SERVICES. FOR CLARITY, EACH SERVICE TO BE TRANSFERRED IS DESIGNATED WITH THE SYMBOL (◊) SEE DETAILS

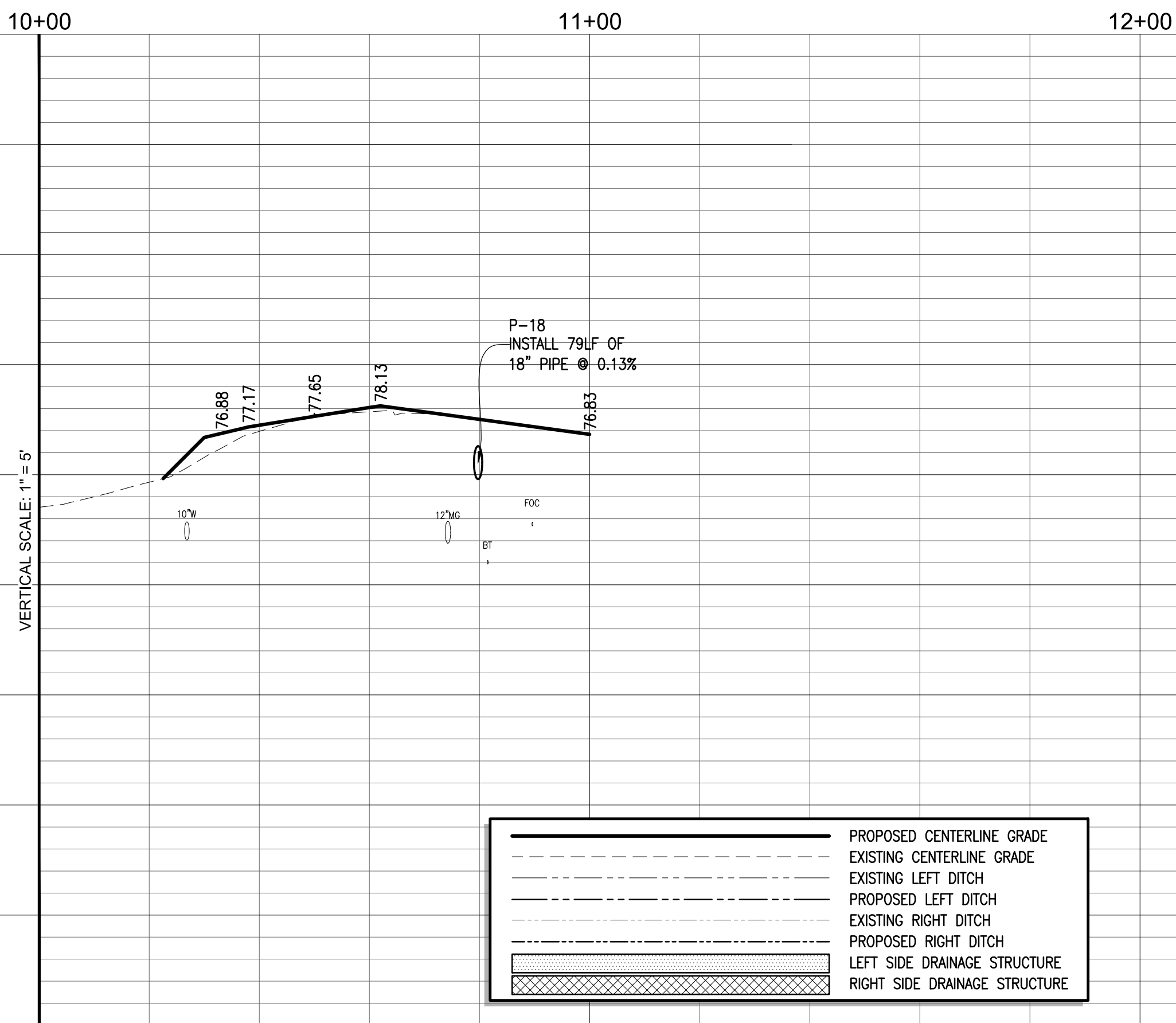
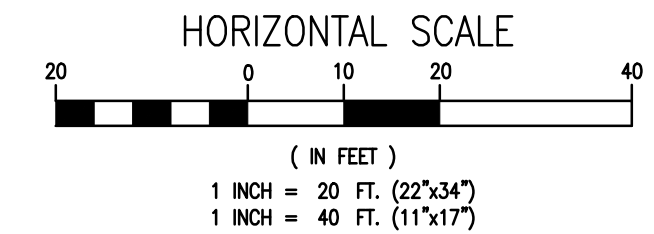
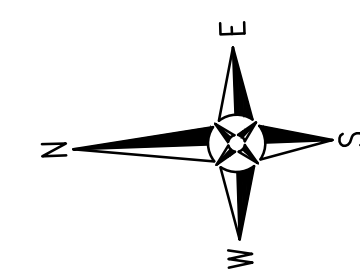
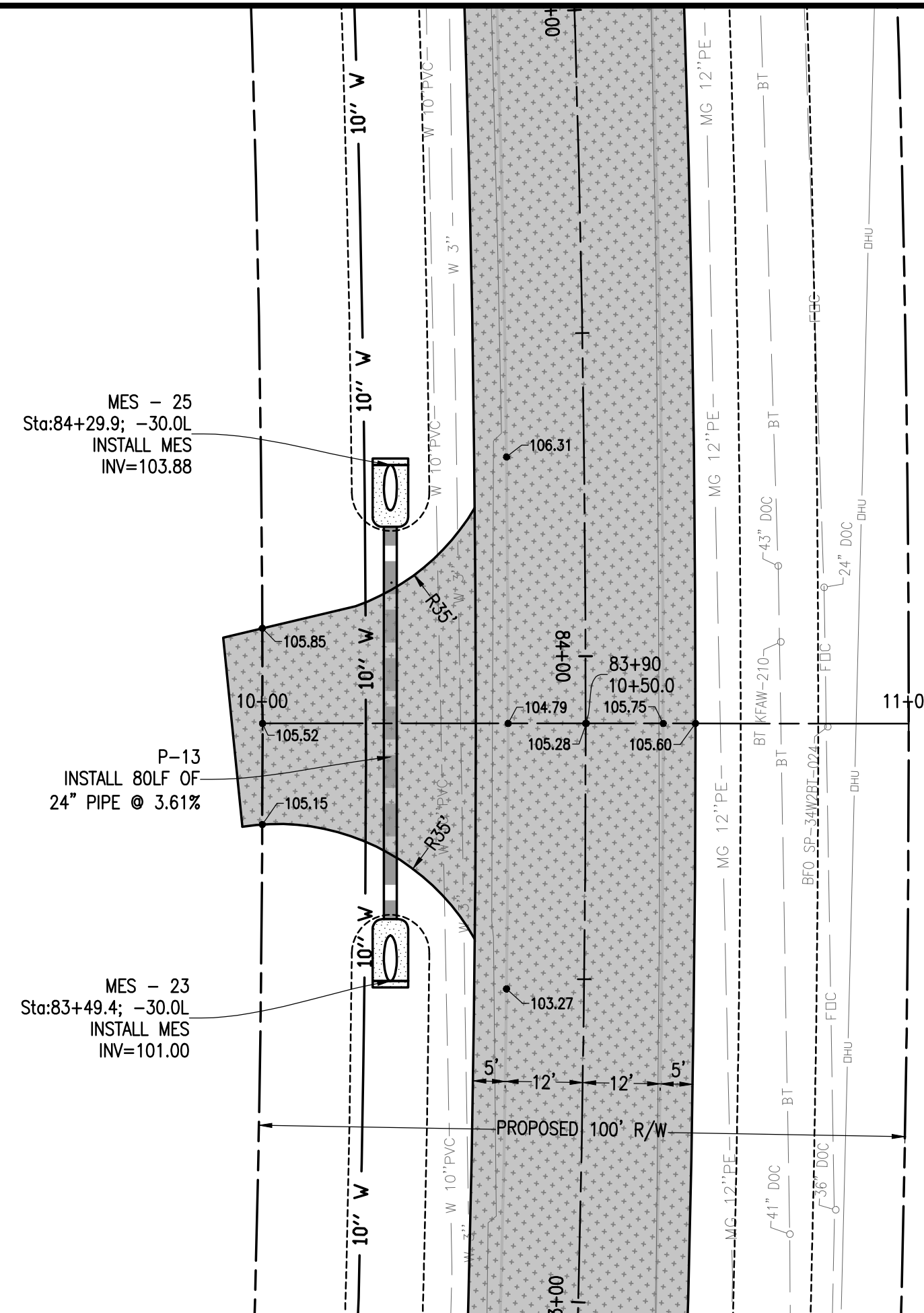
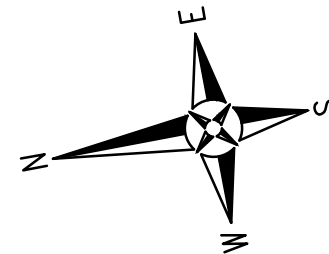
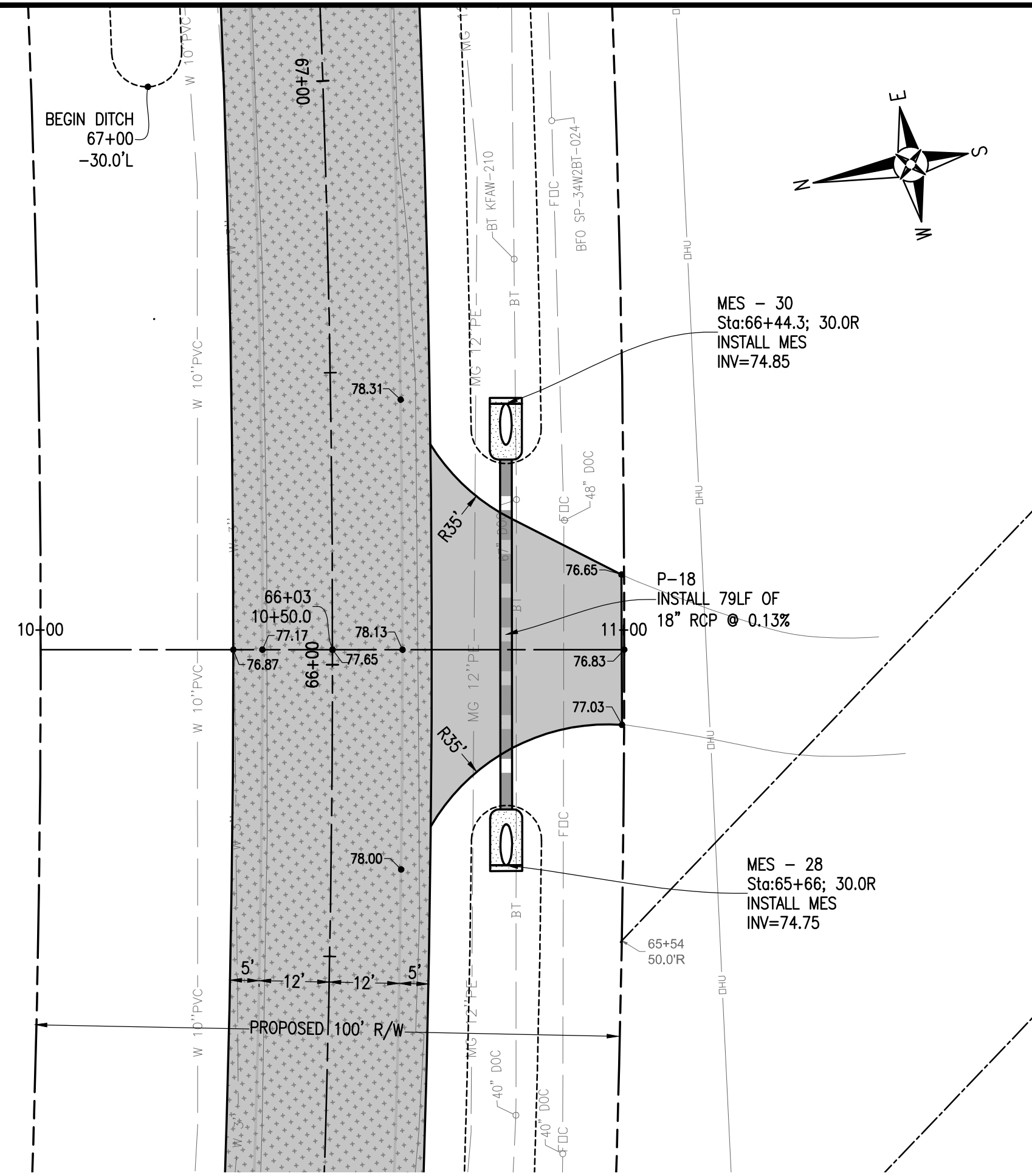


MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS

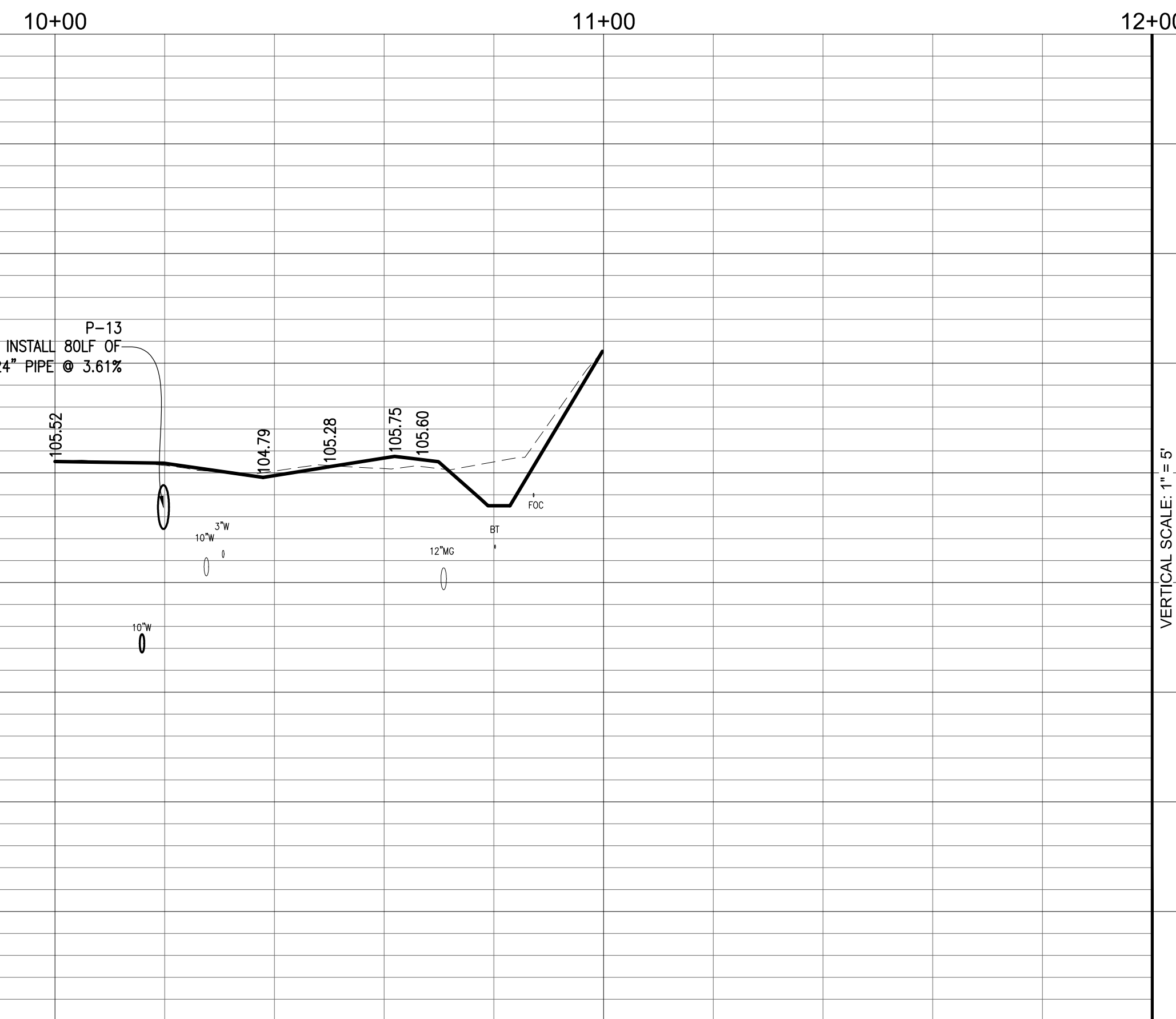
PLAN & PROFILE
 STA 90+00 - STA 95+00

REBOL-BATTLE & ASSOCIATES Civil Engineers and Surveyors 2001 N 9th Ave, Suite 300, Pensacola, Florida 32503 Telephone 850.438.0000 Fax 850.438.0448	
DRAWN BY: C. DUELLMAN DATE: MARCH 2016 FIELD BOOK PAGES:	CHECKED BY: P. BATTLE, P.E. PROJECT MANAGER: E. BUSH REG. P.L.A. NO.: 53126 DATE: 3-10-2016 SIGNATURE:
DRAWING NUMBER: L-4814 PROJECT NUMBER: ENG412 SURVEY NUMBER: 2012.041	SECTION/TOWNSHIP/RANGE: 8-11-14-19 / 1N / 31W / 13 / 1N / 32 W SHEET 23 OF

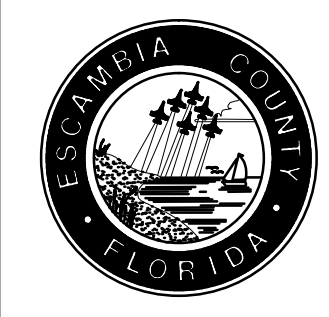
60% SUBMITTAL



	PROPOSED CENTERLINE GRADE
	EXISTING CENTERLINE GRADE
	EXISTING LEFT DITCH
	PROPOSED LEFT DITCH
	EXISTING RIGHT DITCH
	PROPOSED RIGHT DITCH
	LEFT SIDE DRAINAGE STRUCTURE
	RIGHT SIDE DRAINAGE STRUCTURE



MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS
IP DRIVE & CARLISLE DRIVE PLAN & PROFILE

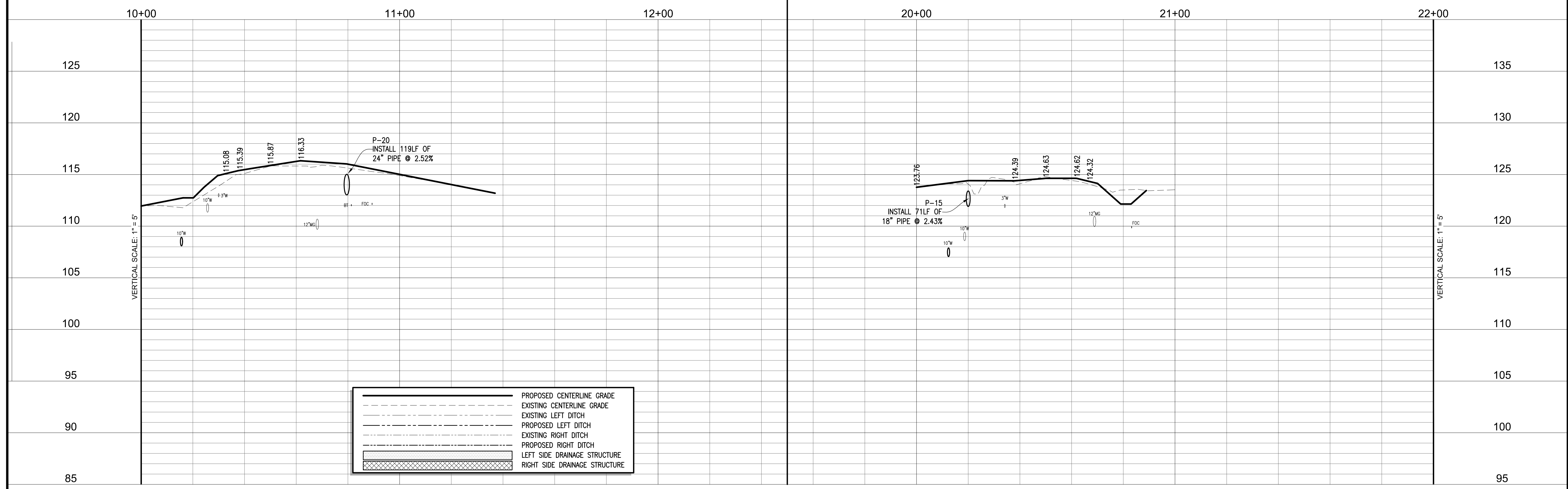
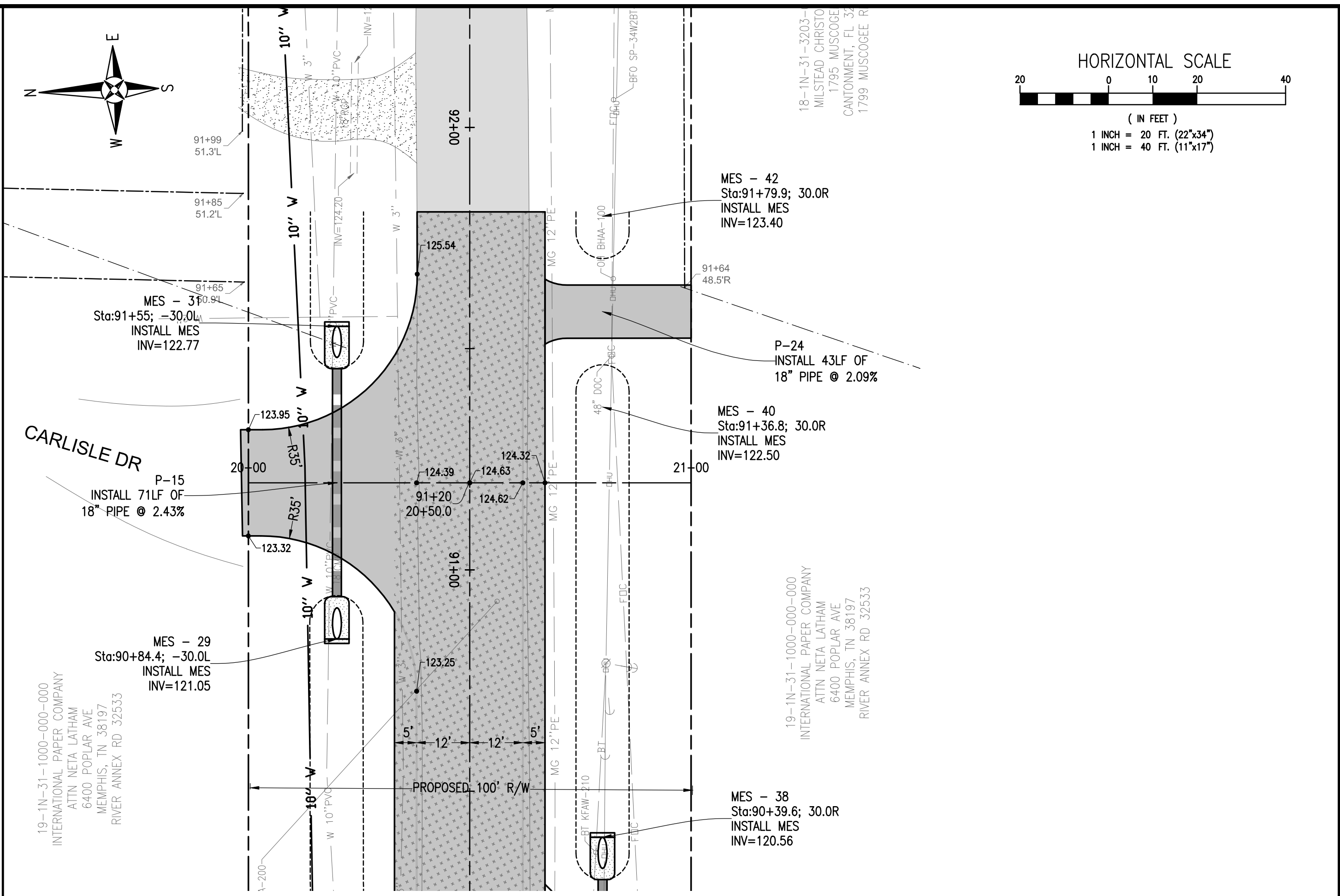
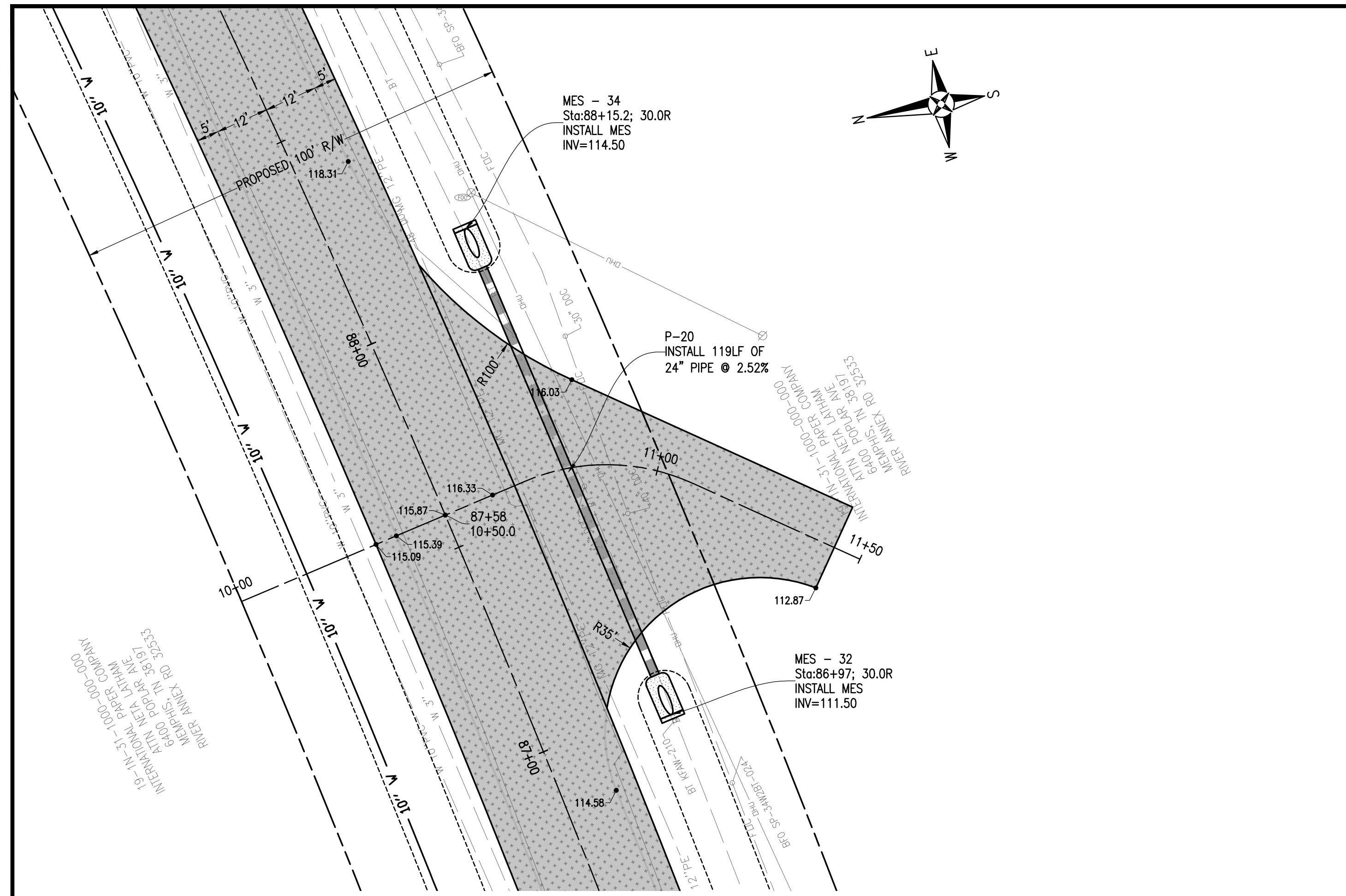


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DESIGNED BY: P. BATTLE / J. REBOL	CHECKED BY: P. BATTLE, P.E.	REG. P.L.A. ENG. NO. 53126
DRAWN BY: C. DUELLMAN	PROJECT MANAGER: E. BUSH	INSTRUCT: S
DATE: MARCH 2016	SECTION TOWNSHIP RANGE: 8-11-14-19 / IN / 31W / 13 / IN / 32 W	SIGNATURE:
FIELD BOOK PAGES:		

NUMBER	DATE	APPROVAL

DRAWING NUMBER	L-4814
PROJECT NUMBER	ENG412
SURVEY NUMBER	2012.041
SHEET	24 OF

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MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS

IP DRIVE & CARLISLE DRIVE PLAN & PROFILE

ESSEX COUNTY
FLORIDA

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FIELD BOOK PAGES:

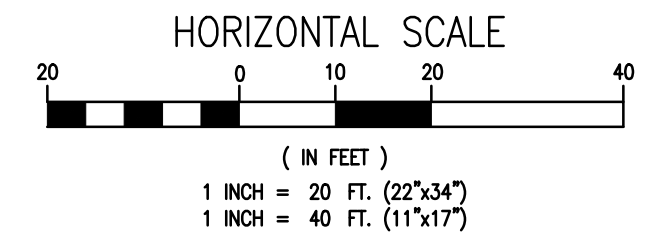
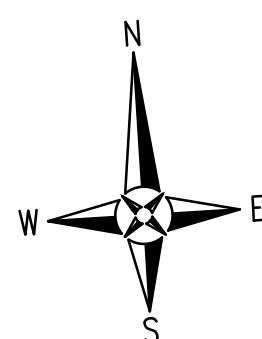
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PROJECT MANAGER: E. BUSH
INSTRUCT: S

REG. P.L.A. ENG. NO. 53126
DATE: 3-10-2016
SIGNATURE:

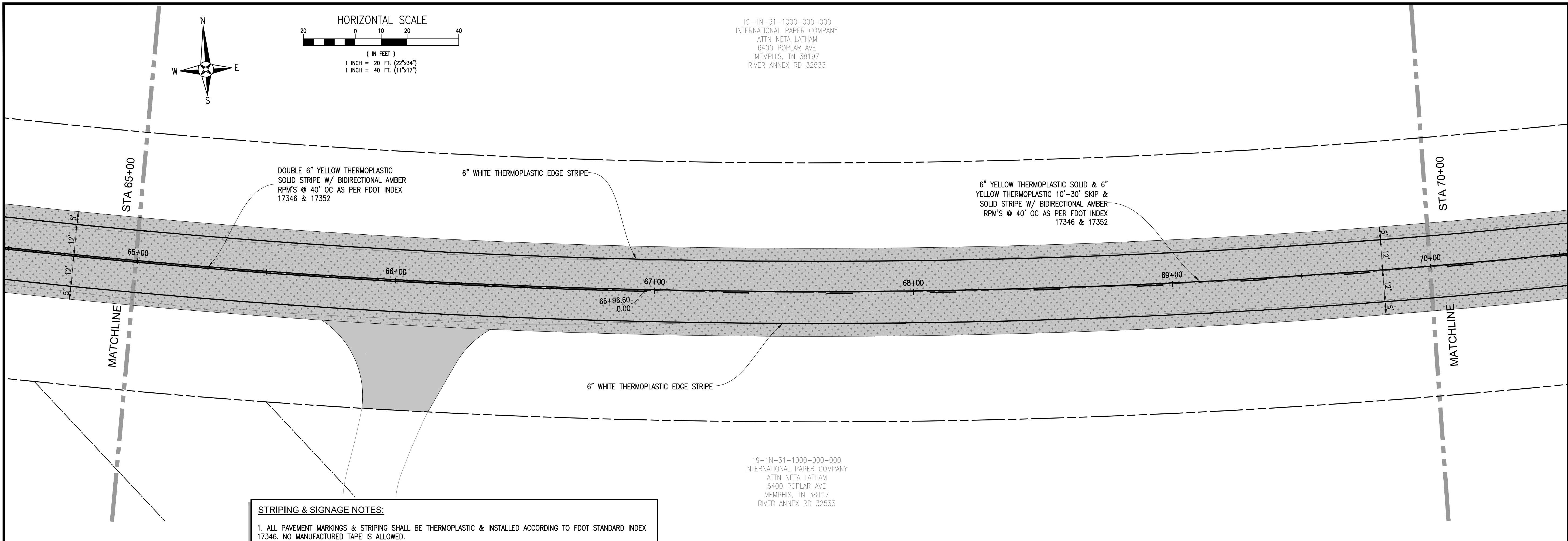
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8-11-14-19 / IN / 31W / 13 / IN / 32 W

DRAWING NUMBER: L-4814
PROJECT NUMBER: ENG412
SURVEY NUMBER: 2012.041
SHEET 25 OF

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INTERNATIONAL PAPER COMPANY
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RIVER ANNEX RD 32533

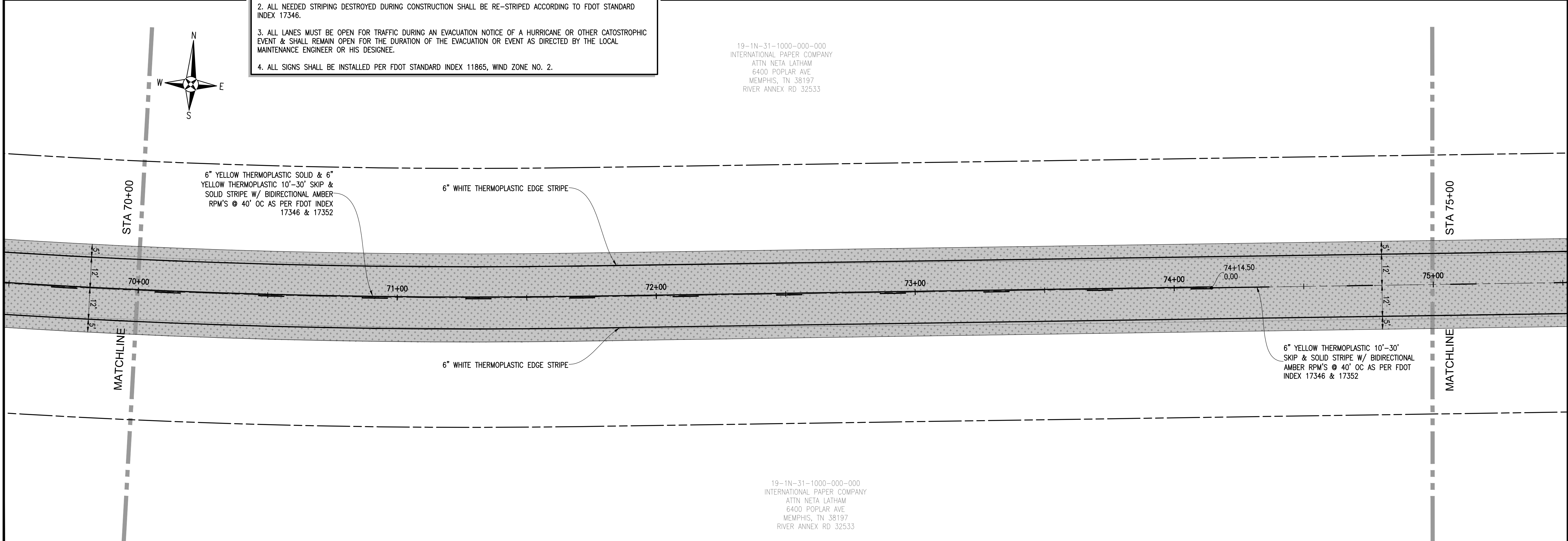
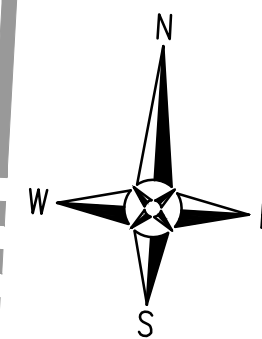


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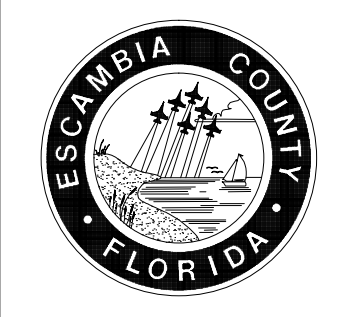
1. ALL PAVEMENT MARKINGS & STRIPING SHALL BE THERMOPLASTIC & INSTALLED ACCORDING TO FDOT STANDARD INDEX 17346. NO MANUFACTURED TAPE IS ALLOWED.
2. ALL NEEDED STRIPING DESTROYED DURING CONSTRUCTION SHALL BE RE-STRIPED ACCORDING TO FDOT STANDARD INDEX 17346.
3. ALL LANES MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT & SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE LOCAL MAINTENANCE ENGINEER OR HIS DESIGNEE.
4. ALL SIGNS SHALL BE INSTALLED PER FDOT STANDARD INDEX 11865, WIND ZONE NO. 2.

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MUSCOGEE ROAD
WIDENING AND DRAINAGE IMPROVEMENTS
STRIPING, DIMENSION AND SIGNAGE PLAN
STA 65+00 TO STA 75+00



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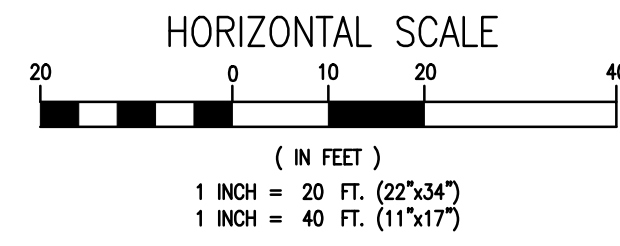
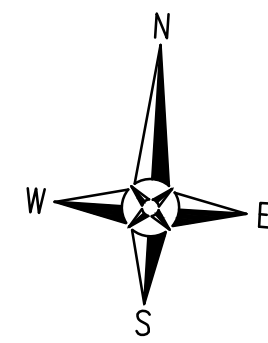
CHECKED BY: P. BATTLE / J. REBOL
PROJECT MANAGER: E. BUSH
DATE: JULY 2012
FIELD BOOK PAGES: 8-11, 14-19 / IN / 31W / 13 / IN / 32 W

DATE: 7-5-2012
REG. P.L.A. NO.: 53126
DISTRICT: 5
SIGNATURE:

REVISIONS	DATE	APPROVAL

DRAWING NUMBER: **L-4814**
PROJECT NUMBER: **ENG412**
SURVEY NUMBER: **2012.041**
SHEET **29** OF

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STA 75+00
MATCHLINE

6" WHITE THERMOPLASTIC EDGE STRIPE

6" YELLOW THERMOPLASTIC 10'-30'
SKIP & SOLID STRIPE W/ BIDIRECTIONAL
AMBER RPM'S @ 40' OC AS PER FDOT
INDEX 17346 & 17352

6" WHITE THERMOPLASTIC EDGE STRIPE

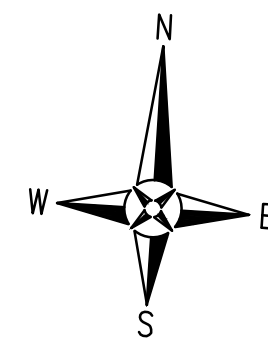
STA 80+00

MATCHLINE

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STA 80+00
MATCHLINE

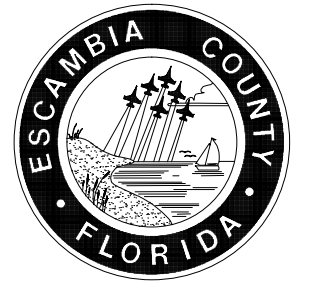
6" WHITE THERMOPLASTIC EDGE STRIPE

6" YELLOW THERMOPLASTIC SOLID & 6"
YELLOW THERMOPLASTIC 10'-30' SKIP &
SOLID STRIPE W/ BIDIRECTIONAL AMBER
RPM'S @ 40' OC AS PER FDOT INDEX
17346 & 17352

6" WHITE THERMOPLASTIC EDGE STRIPE

STA 85+00

MATCHLINE



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Telephone 850.438.0400 Fax 850.438.0448



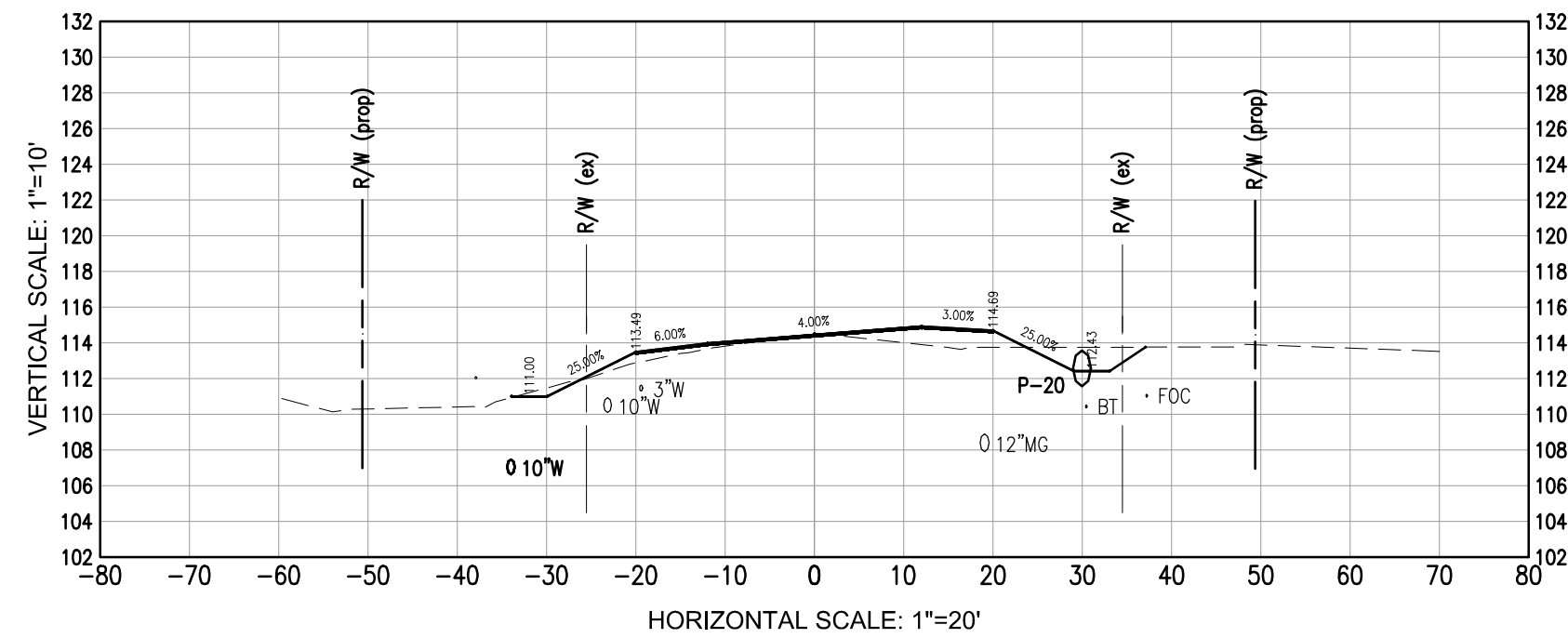
DESIGNED BY: P. BATTLE / J. REBOL	CHECKED BY: P. BATTLE / P.E.	DATE: 7-5-2012
DRAWN BY: C. DIELLMAN	PROJECT MANAGER: E. BUSH	SECTION TOWNSHIP RANGE: 8-11-14-19 / IN / 31W / 13 / IN / 32 W
DATE: JULY 2012	FIELD BOOK PAGES:	
REG. P.L.A. NO. 53126	INSTRUMENT: S	SIGNATURE:

REVISIONS	DATE	APPROVAL

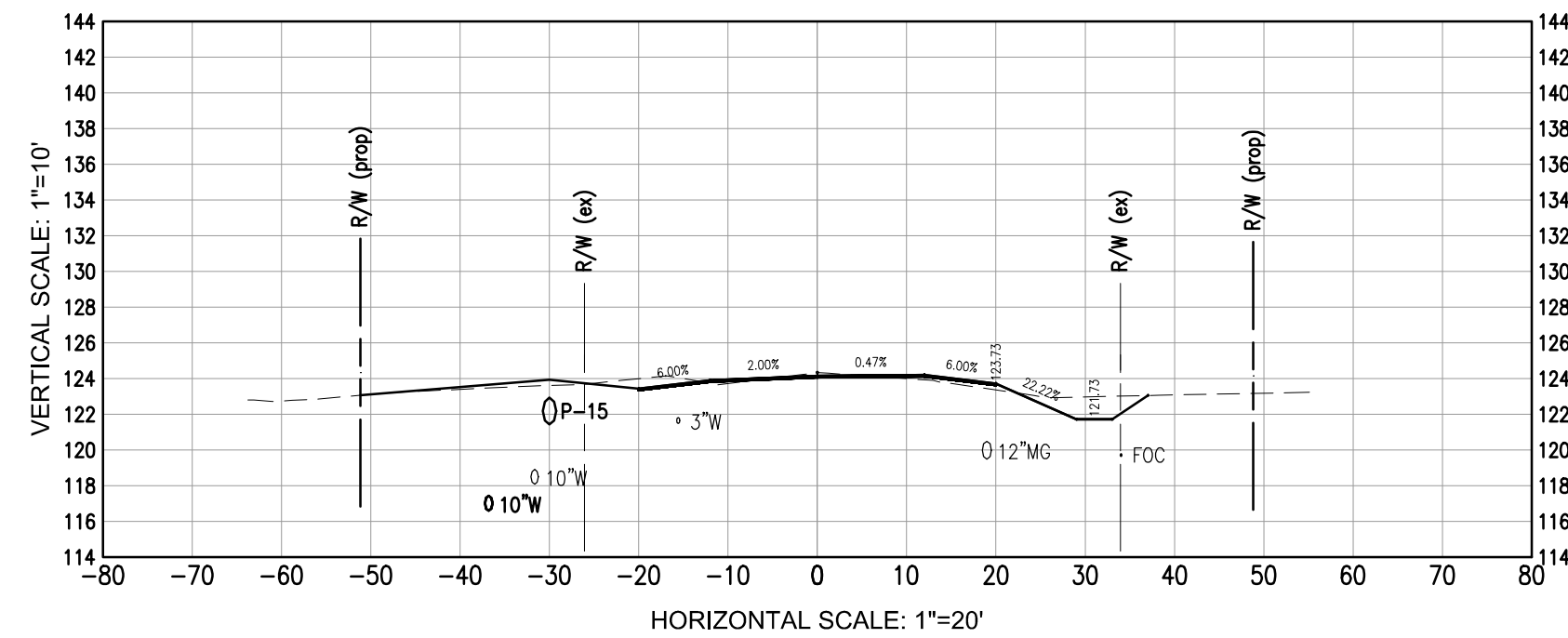
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PROJECT NUMBER	ENG412
SURVEY NUMBER	2012.041
SHEET	30 OF

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INTERNATIONAL PAPER COMPANY
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MEMPHIS, TN 38197
RIVER ANNEX RD 32533

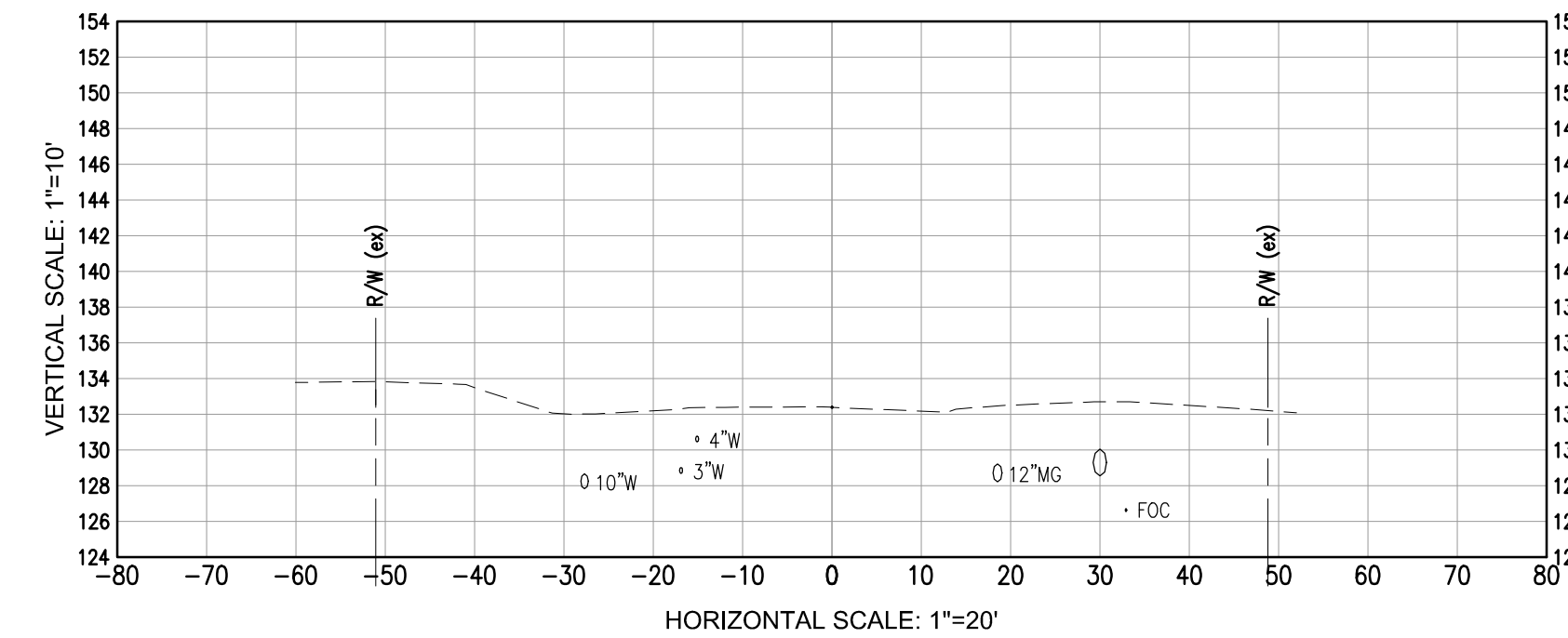
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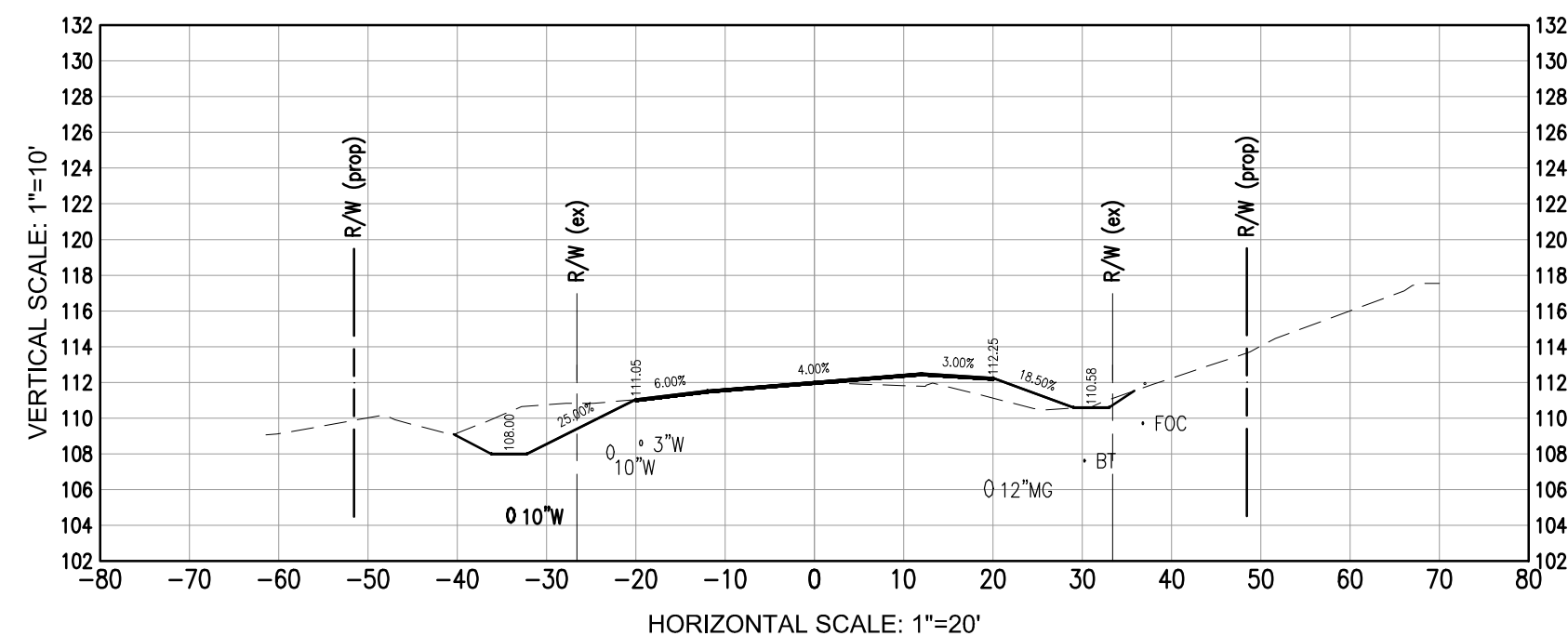
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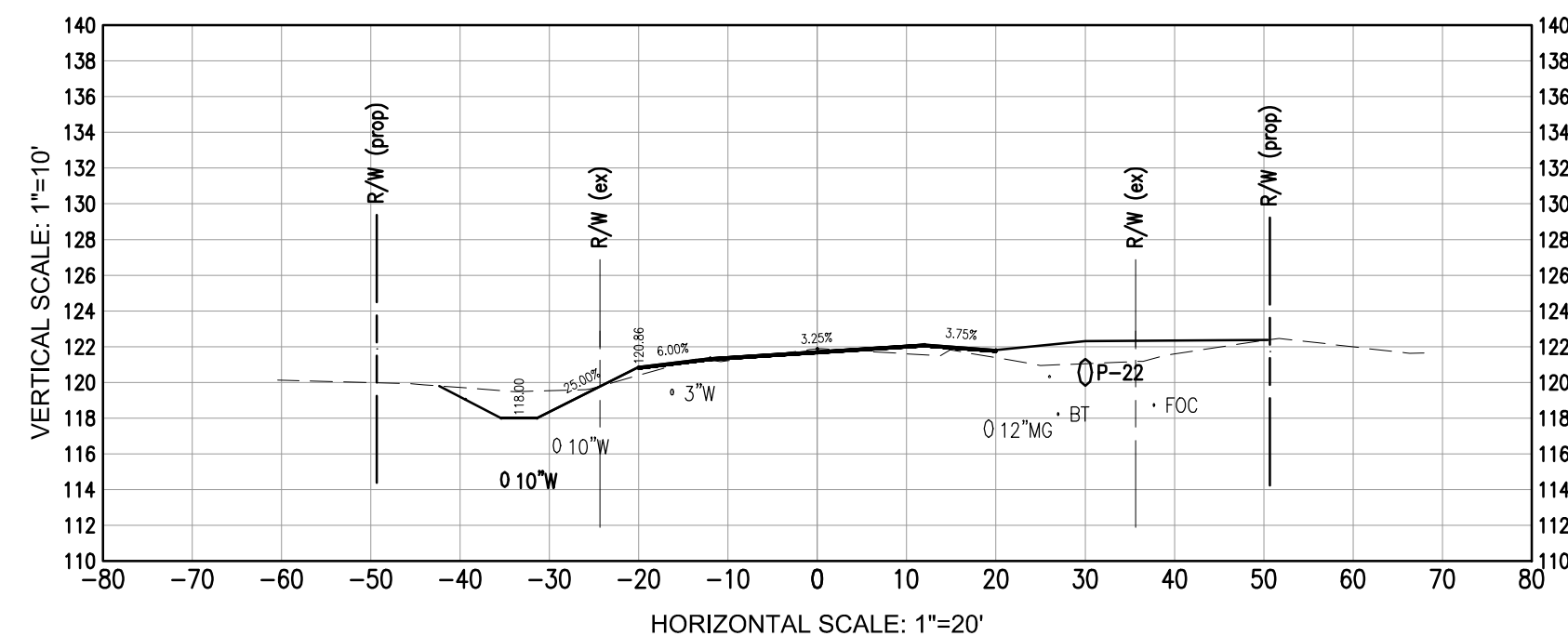
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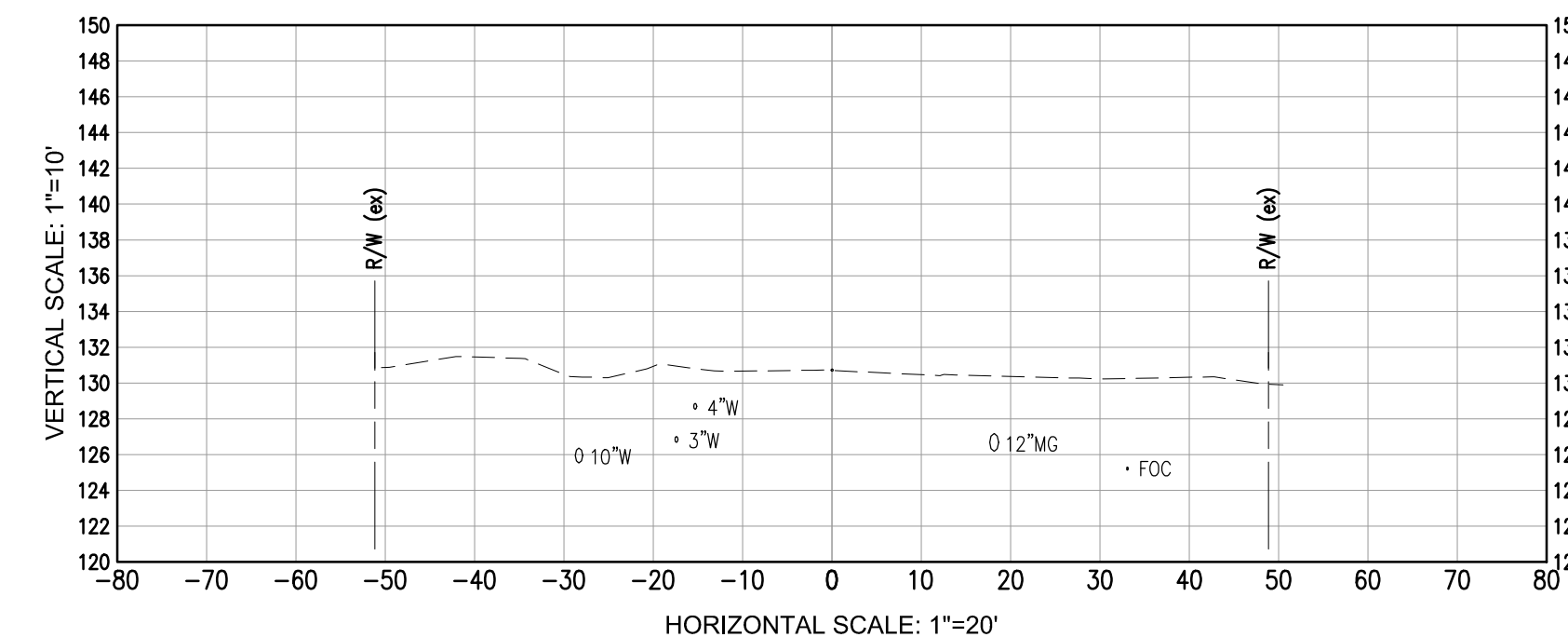
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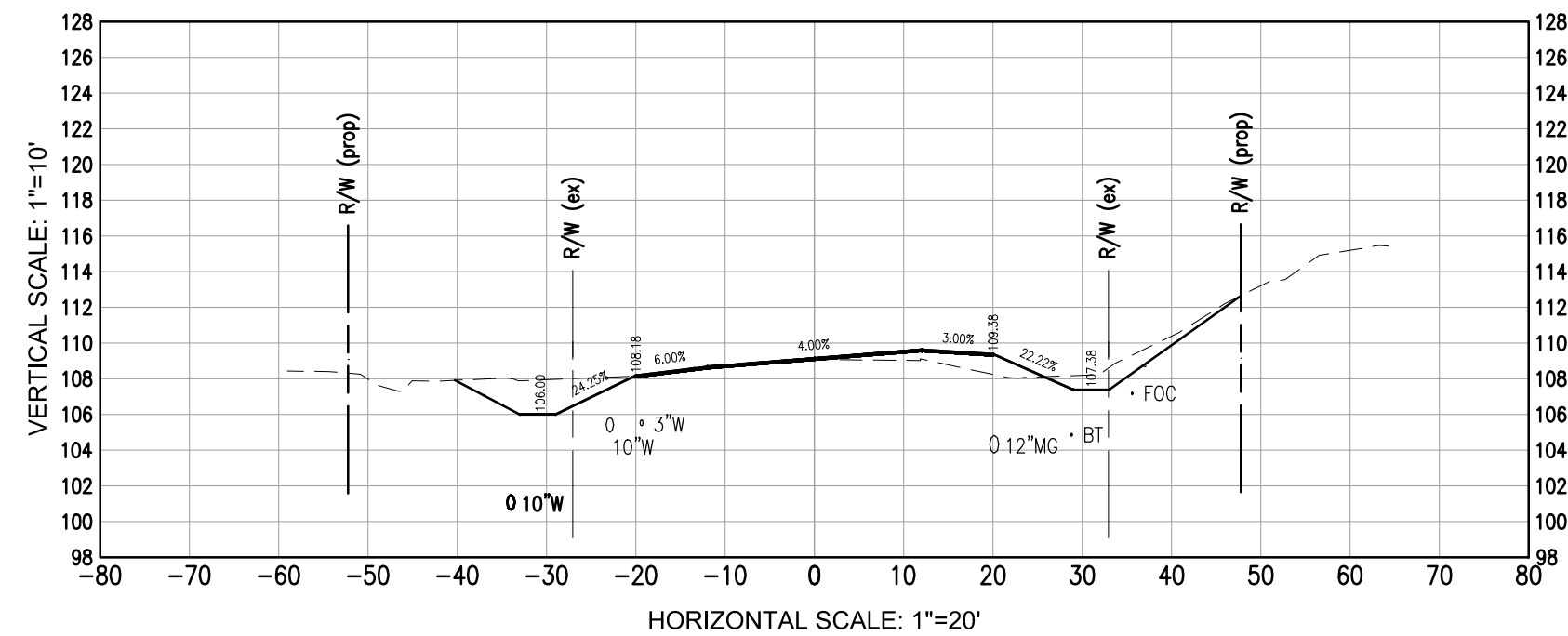
Muscogee Rd - Sta 86+00



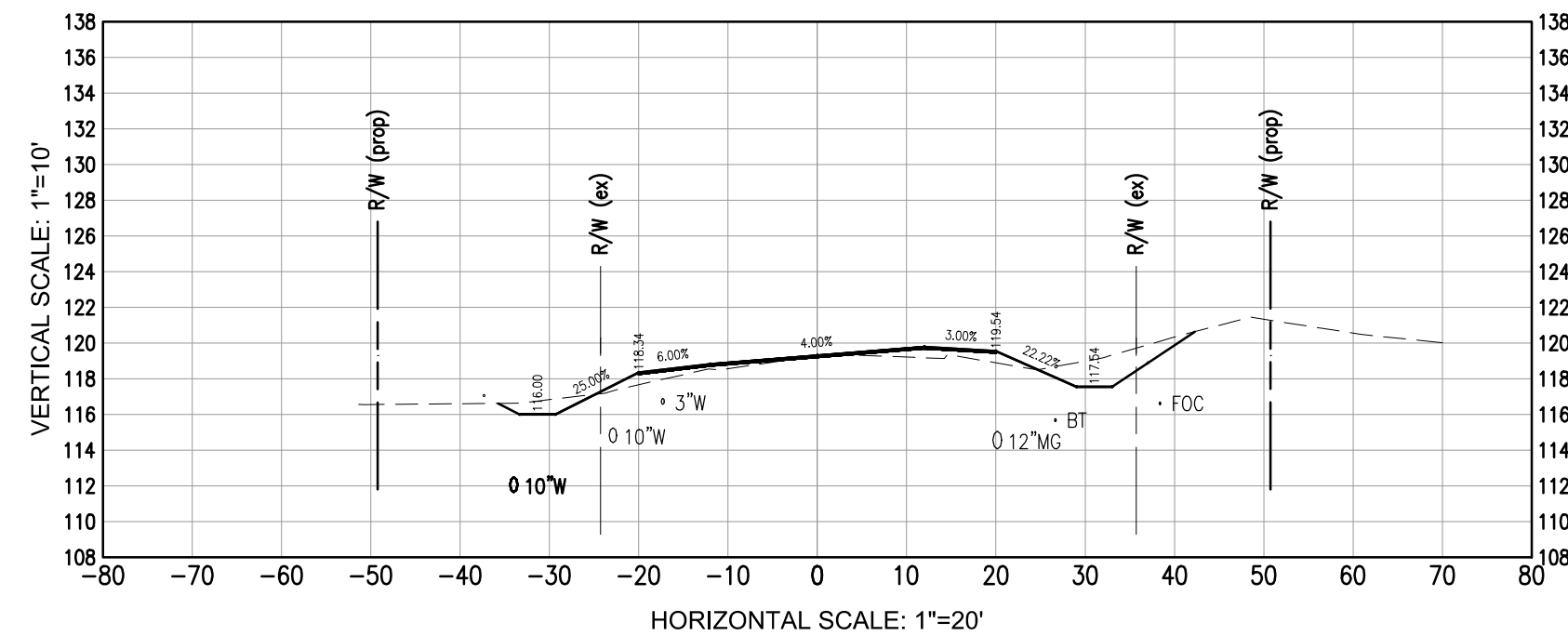
Muscogee Rd - Sta 90+00



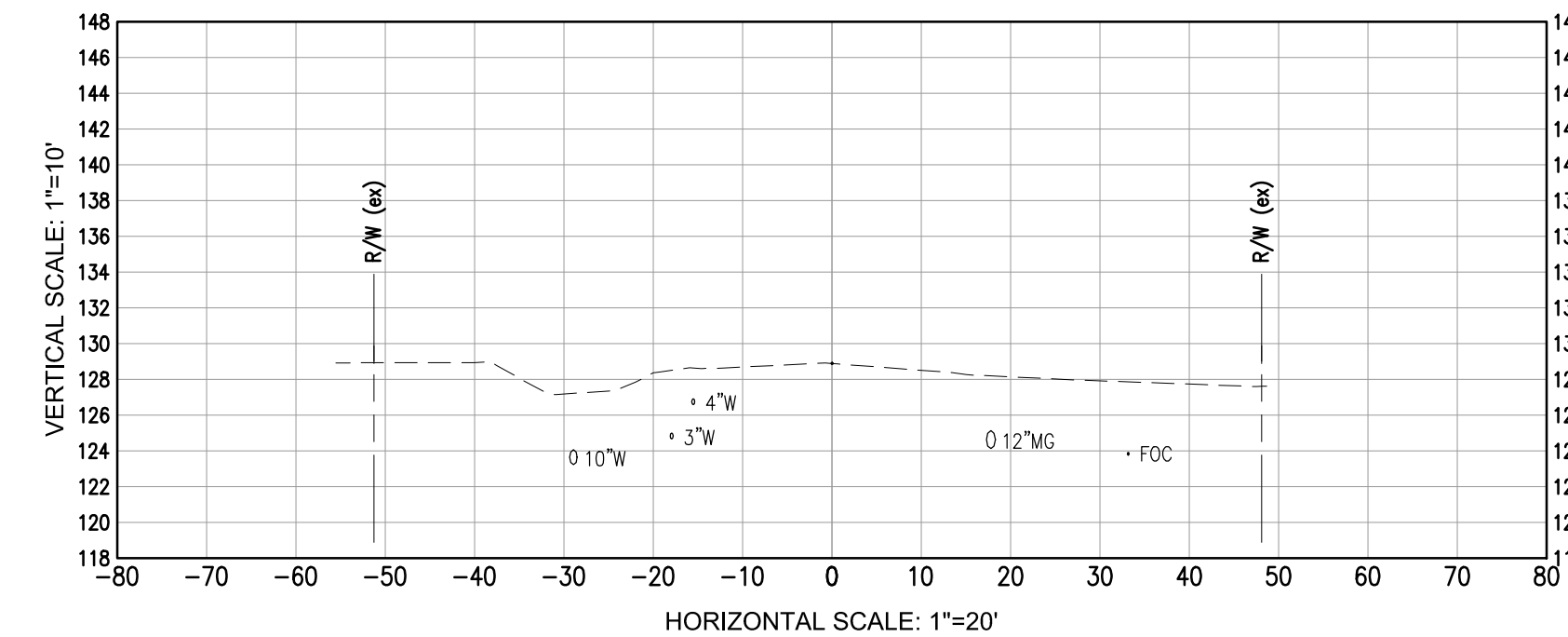
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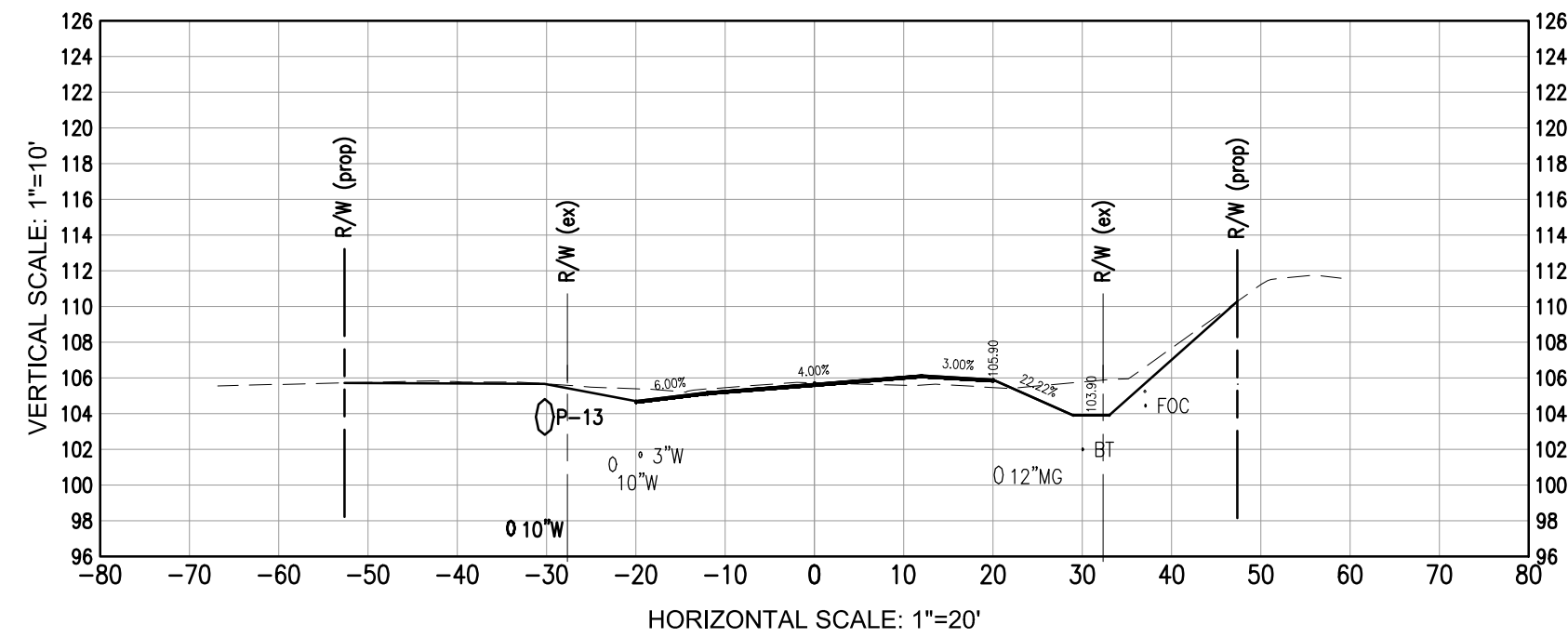
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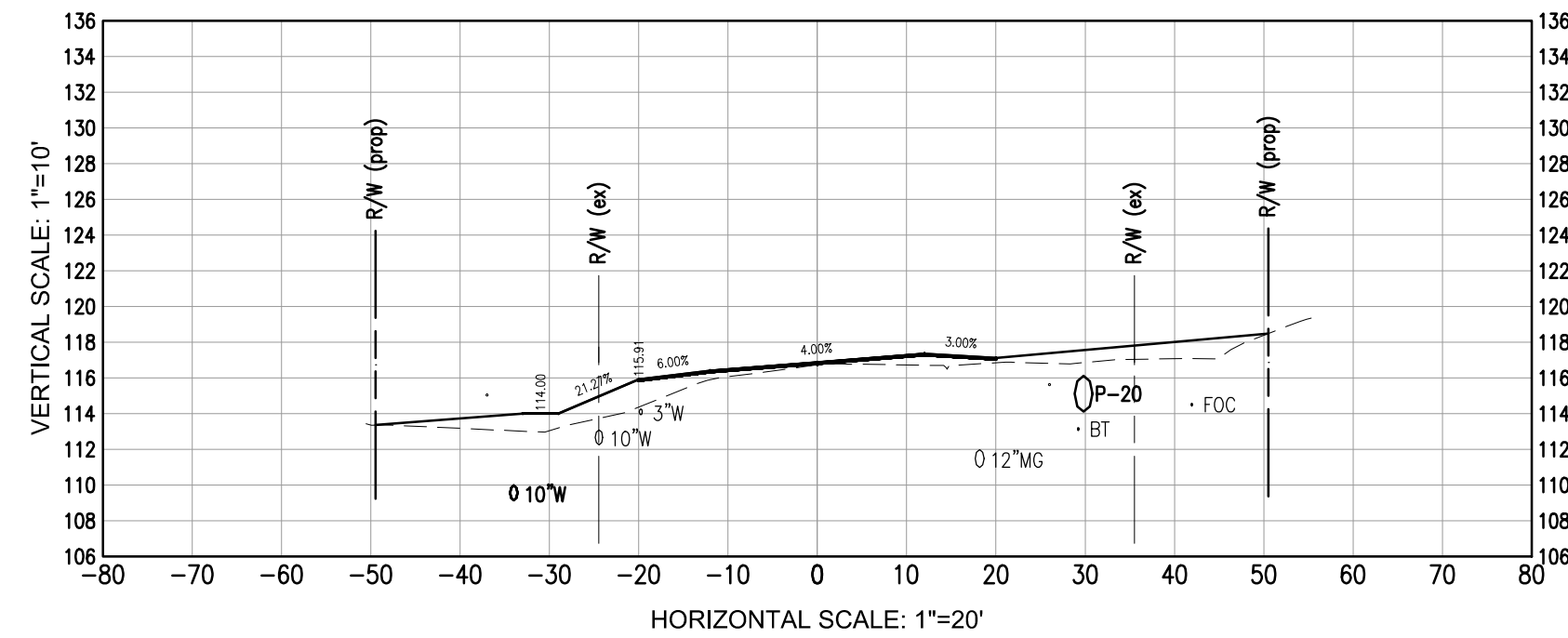
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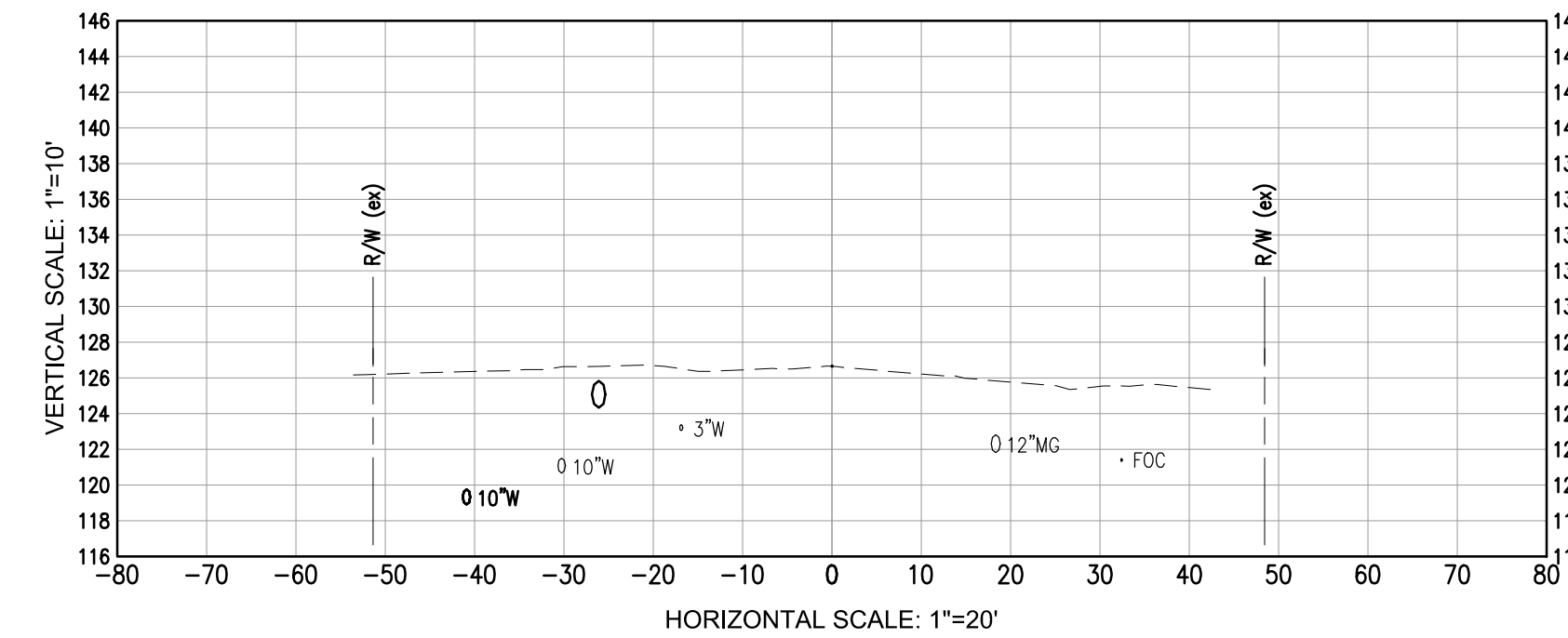
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Muscogee Rd - Sta 84+00



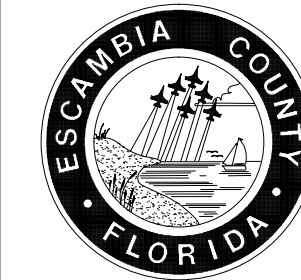
Muscogee Rd - Sta 88+00



Muscogee Rd - Sta 92+00

MUSCOGEE ROAD PHASE 2
WIDENING AND DRAINAGE IMPROVEMENTS

CROSS SECTIONS



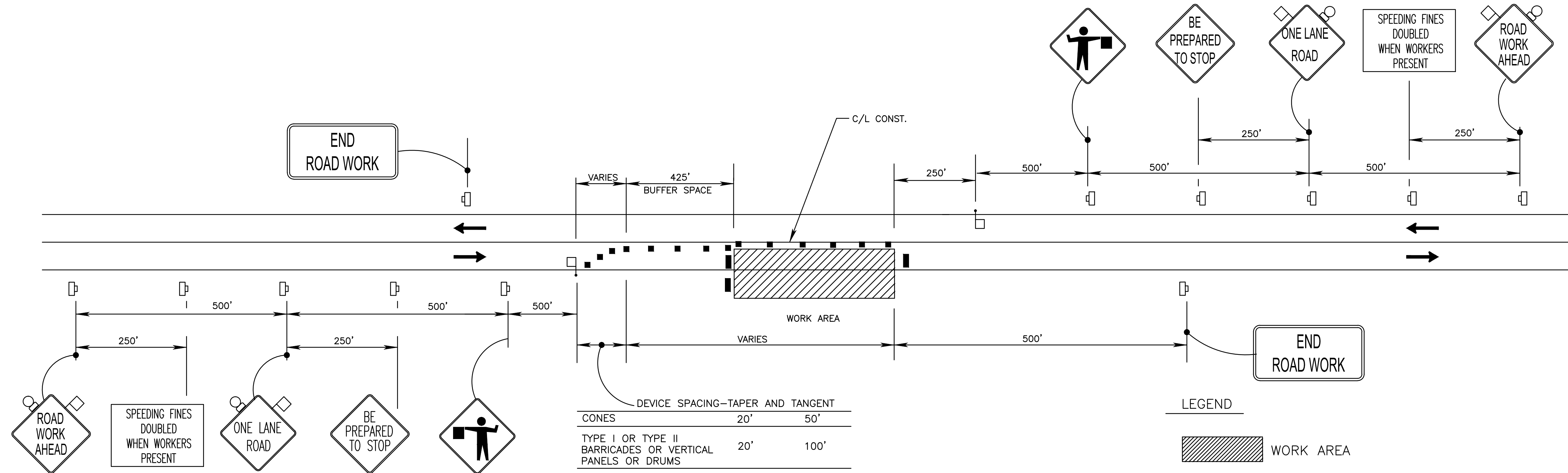
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DATE:	3-10-2016
CHECKED BY:	P. BATTLE / J. REBOL
PROJECT MANAGER:	E. BUSH
SECTION TOWNSHIP RANGE:	8-11-14-19 / N / 31W / 13 / N / 32 W
DATE:	MARCH 2016
FIELD BOOK PAGES:	5
PROJECT NO.:	53126
REG. P.L.A. NO.:	53126
DRAWN BY:	C. DUELLMAN
DATE:	MARCH 2016
FIELD BOOK PAGES:	5

NUMBER	DATE	APPROVAL

DRAWING NUMBER	L-4814
PROJECT NUMBER	ENG412
SURVEY NUMBER	2012.041
SHEET	36 OF



MUSCOGEE ROAD

TRAFFIC CONTROL PLAN N.T.S.

GENERAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC OPEN AT ALL TIMES. AFTER THE BASE WIDENING IS COMPLETE FOR TRAVEL LANES IN EACH DIRECTION, THE CONTRACTOR SHALL CONSTRUCT THE 2" SP 12.5 OVER THE ENTIRE TRAVEL LANE AND WIDENING AREA. THE CONTRACTOR SHALL SEGMENT HIS WORK SO THAT THE ENTIRE WORK ZONE AREA IS COVERED WITH ASPHALT AT THE END OF THE WORK DAY SO THAT TWO WAY TRAFFIC CAN RESUME. THE TOP ELEVATION OF THE INITIAL 2" SP 12.5 IN THE WIDENING AREAS SHOULD MATCH THE ELEVATION OF THE TOP OF THE TRAVEL LANES.
2. FOR GENERAL TRAFFIC CONTROL REQUIREMENTS AND ADDITIONAL INFORMATION, REFER TO FDOT DESIGN STANDARDS INDEX 600'S.
3. THERE SHALL BE NO LANE CLOSURES BETWEEN THE HOURS OF 6:00 AM TO 8:00 AM AND 3:00 PM TO 6:00 PM ON MUSCOGEE.
4. THE CONTRACTOR SHALL MAKE SURE AREA IS TRAVERSABLE BY PEDESTRIANS AND VEHICLES BY THE END OF THE DAY. NO OPEN DITCHES WILL BE ALLOWED TO BE LEFT UNATTENDED DUE TO THE NATURE OF THE PROJECT.
5. CONTRACTOR SHALL HAVE FLAGGERS AVAILABLE TO DIRECT TRAFFIC IN THE WORK ZONE. WHEN FLAGGERS ARE THE SOLE MEANS OF ONE-WAY CONTROL, THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
6. IN THE RAILROAD RIGHT-OF-WAY THE ROADWAY AUTHORITY, OR DESIGNATED CONTRACTOR, SHALL NOT PERFORM TEMPORARY LANE CLOSURES, LANE SHIFTS, OR DETOURS.
7. IN THE RAILROAD RIGHT-OF-WAY, CONSTRUCTION ACTIVITIES SHALL ONLY BE PERFORMED BY THE RAILROAD CONTRACTOR.



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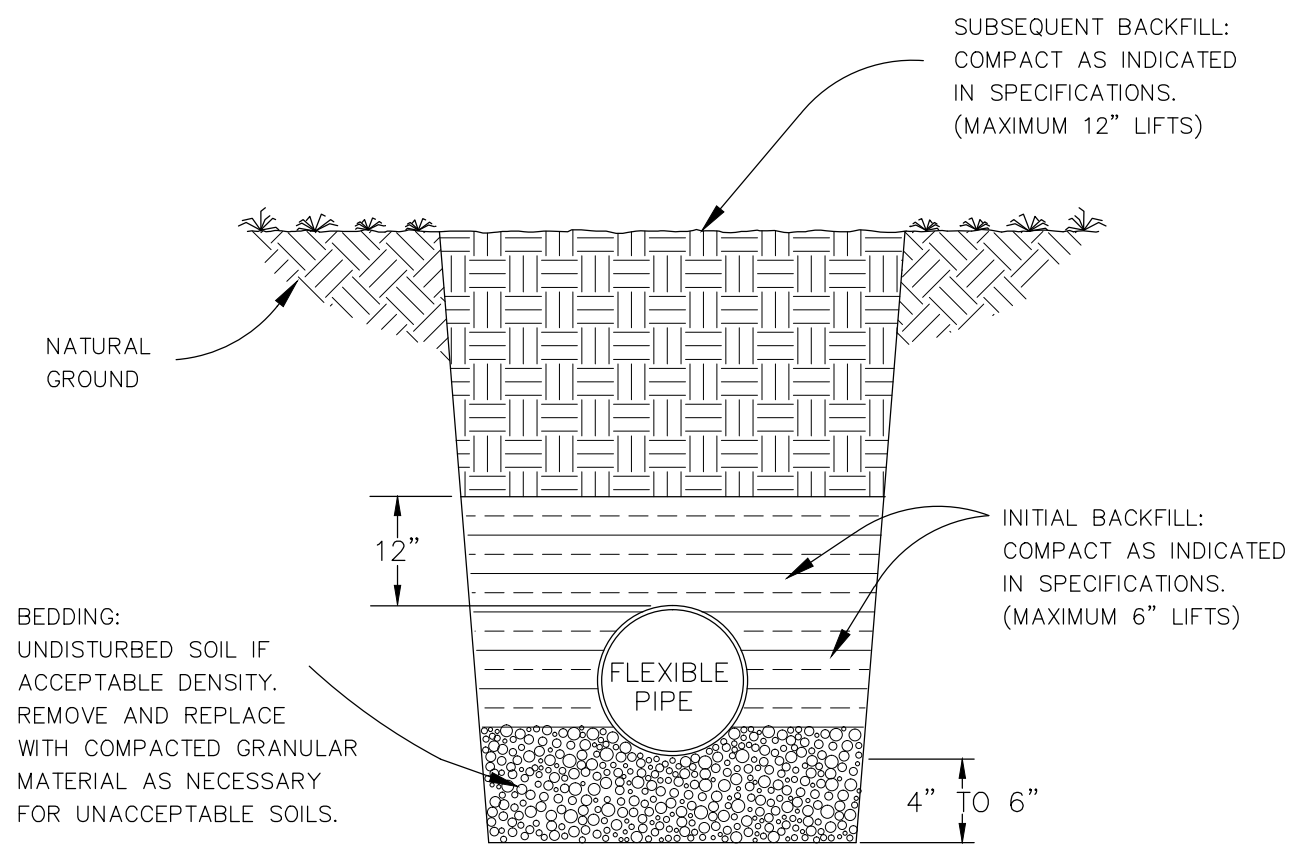
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REG. P.L.A. NO. 53126
SIGNATURE:



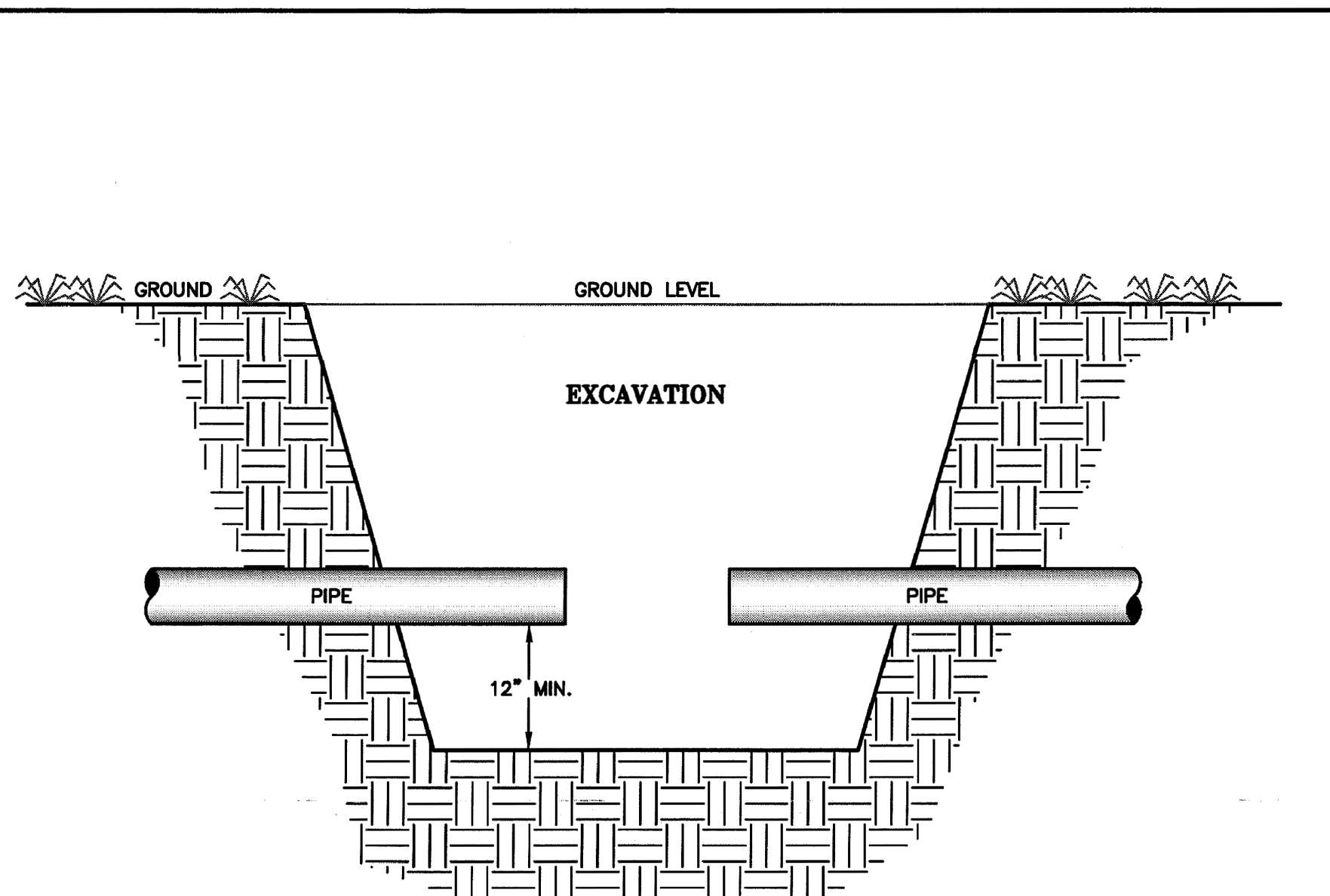
DRAWN BY: C. DIELLMAN
DATE: MARCH 2016
FIELD BOOK PAGES:
INSPERSON BY: P. BATTLE / J. REBOL
PROJECT MANAGER: E. BUSH
CHECKED BY: P. BATTLE, P.E.
INSTRUCT: S
SECTION / TOWNSHIP / RANGE: 8-11-14-19 / 1N / 31W / 13 / 32 W

REVISIONS	DATE	APPROVAL

DRAWING NUMBER: L-4814
PROJECT NUMBER: ENG412
SURVEY NUMBER: 2012.041
SHEET 38 OF



FLEXIBLE PIPE BEDDING
N.T.S.

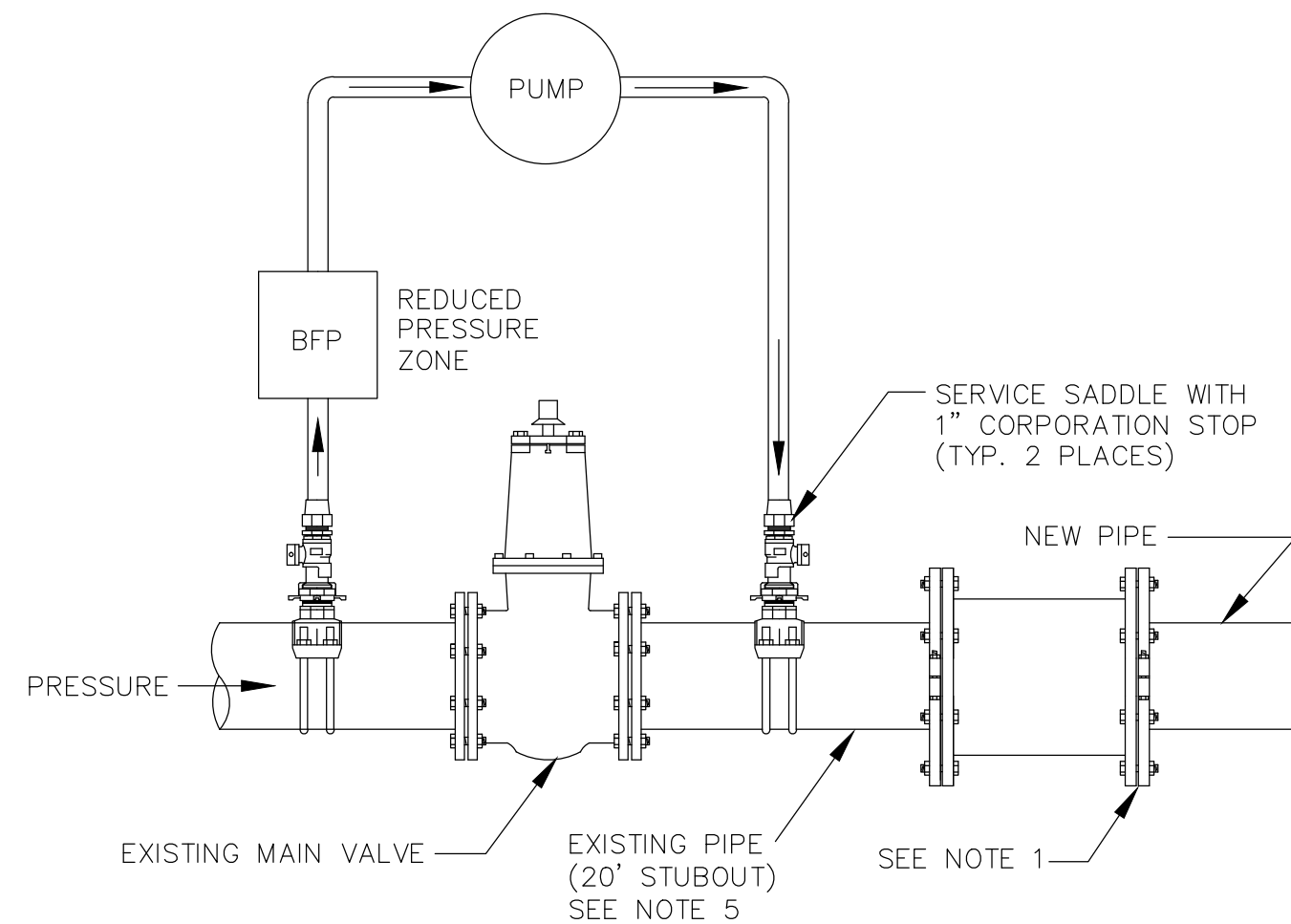


Notes:

- 1) A continuous outflow of water from the pipe on each side of the repair must be maintained.
- 2) Standing surface, ground or potable water in the pit (excavation) is not allowed to remain during periods of unpressurized pipe conditions, less than full pipe flow or whenever flow is not being maintained. Additionally, soil should be excavated to a minimum depth of 12 inches below the pipe inverts.
- 3) Precautionary Boil Water Notices shall be issued when these conditions outlined in notes 1 and 2 above are not maintained.
- 4) All repair or connection items, piping and appurtenances shall be properly disinfected or swabbed in accordance with Rule 62-555.340, F.A.C., and AWWA Standard C651. As a record of procedural BMP effectiveness a minimum of one bacteriological sample shall be collected on either side of the repair area for two consecutive days. If the analytical results are positive, a PBWN shall be issued and two days of satisfactory water quality analyses are required prior to rescinding the boil water notice.

NOTES:

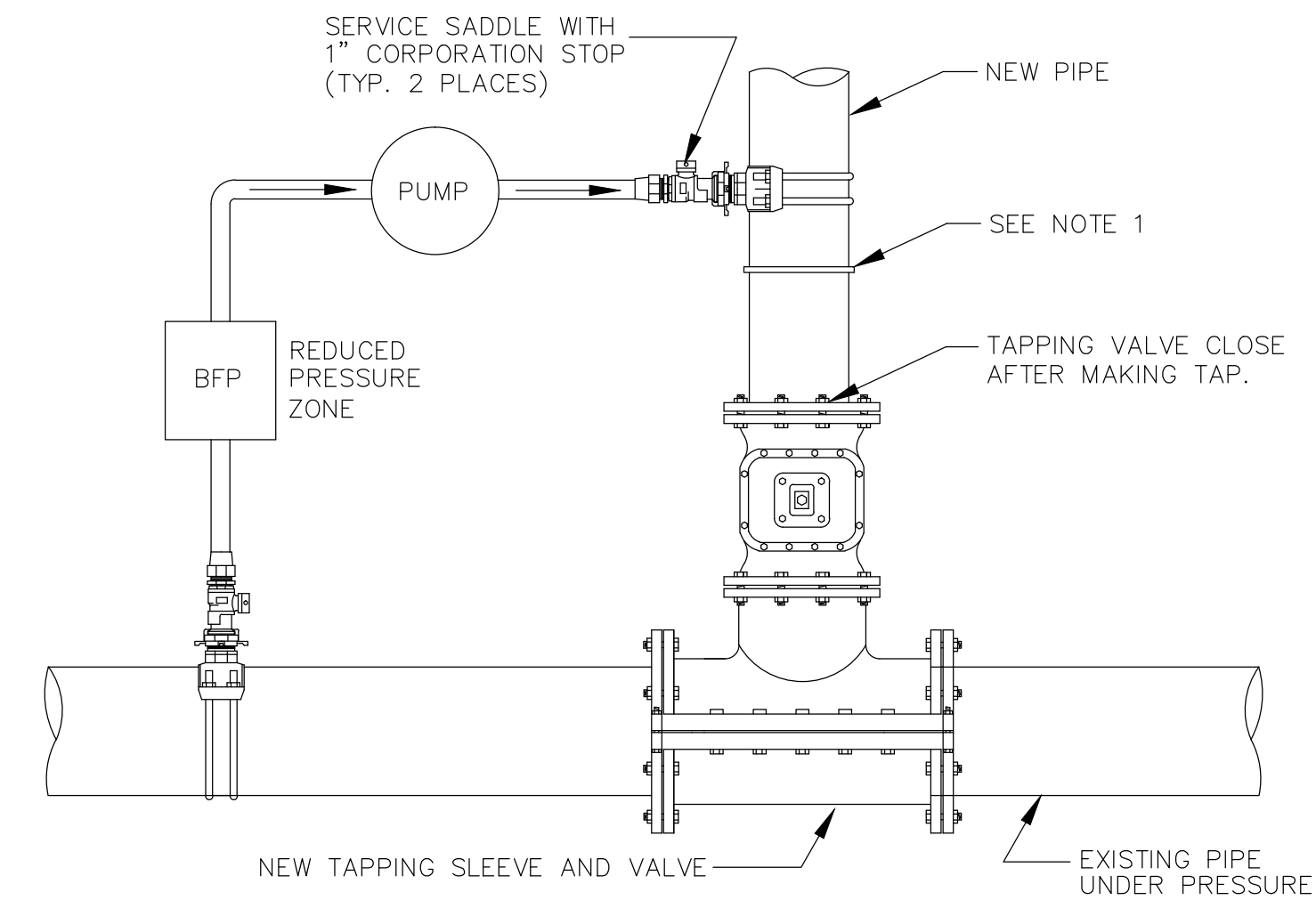
1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO EXISTING MAIN IN A MANNER ACCEPTABLE TO ECUA.
2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE EXISTING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. CWS INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE ECUA INSPECTOR.
5. IF 20' STUBOUT IS NOT PRESENT SPECIAL ARRANGEMENTS WILL HAVE TO BE MADE TO DEPRESSURIZE THE EXISTING MAIN TO MAKE CONNECTION TO THE EXISTING VALVE.



TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (EXISTING STUBOUT)

NOTES:

1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO TAPPING VALVE. TAPPING VALVE IS TO REMAIN CLOSED.
2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE TAPPING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. CWS INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.
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TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (TAPPING SLEEVE AND VALVE)

TYPICAL DISINFECTION & CHLORINATION
N.T.S.

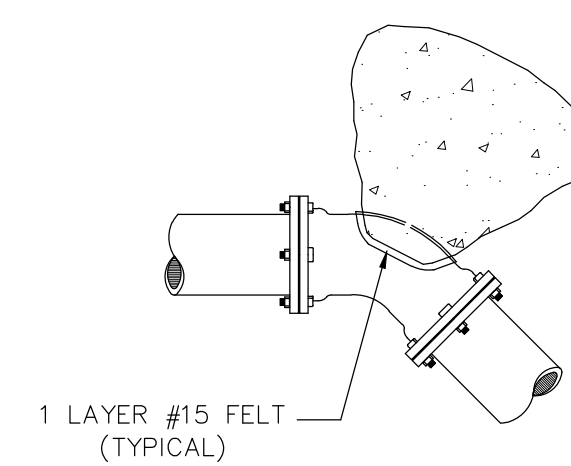
PIPE JOINT RESTRAINT TABULATION

SHOWING DISTANCES IN FEET FROM THE FITTING TO BE RESTRAINED TO THE LAST RESTRAINING GLAND REQUIRED

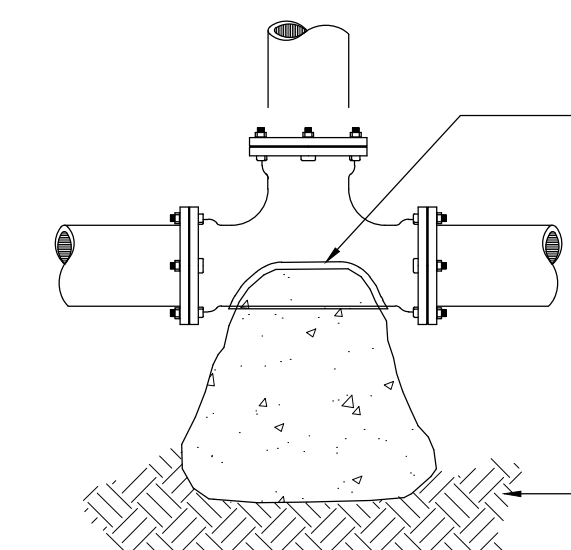
PIPE SIZE AND TYPE	HORIZONTAL BENDS				DEAD ENDS	EQUAL TEES See note 3
	90 Deg.	45 Deg.	22.5 Deg.	11.25 Deg.		
3" DI	18	8	4	2	33	1
4" DI	22	9	4	2	39	1
6" DI	31	13	6	3	55	1
8" DI	40	17	8	4	72	1
10" DI	48	20	9	5	86	1
12" DI	56	23	11	5	101	1
16" DI	70	29	14	7	129	1
20" DI	84	35	17	8	156	18
24" DI	96	40	19	9	181	41
4" PVC	28	12	6	3	62	1
6" PVC	39	16	8	4	87	1
8" PVC	50	21	10	5	114	1
10" PVC	60	25	12	6	136	1
12" PVC	70	29	14	7	160	1
16" PVC	88	36	17	9	205	1
20" PVC	105	43	21	10	247	29
24" PVC	120	50	24	12	287	64

- NOTES :**
1. Test pressure = 150 psi, soil group = SM, trench type = 3, depth = 2.5', safety factor = 2
 2. Restrained lengths for vertical offsets, reducers & unequal size tees must be individually calculated.
 3. With equal tees, the distances shown are with a run length of 40' as an example only. For other lengths and for unequal tees, individual calculations must be made.
 4. As a minimum, pipe restraints are to be placed on the first joint from the fitting.
 5. On all new construction, joint restraints must be installed in casing.
 6. For existing mains under paved surfaces, the contractor will not be required to place restraints on existing pipe.
 7. For existing mains not under paved surfaces, the contractor will be required to place restraints on existing pipe.

PIPE JOINT RESTRAINT TABULATION
N.T.S.



45° BEND - M.J.

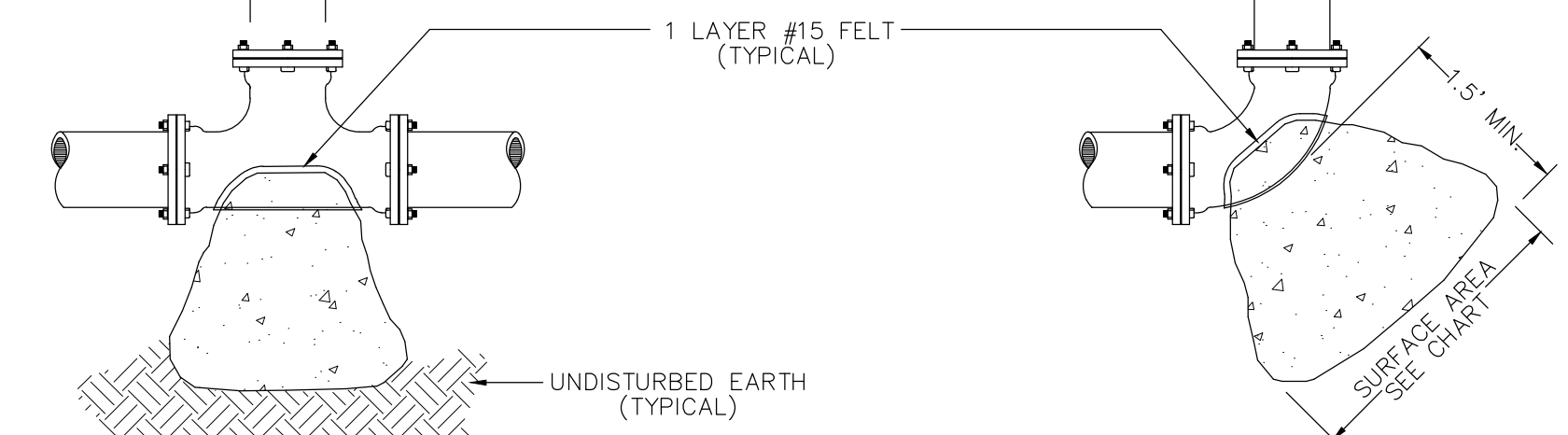


TEE - M.J.

**MINIMUM THRUST BLOCK DIMENSIONS:
SURFACE AREA AGAINST UNDISTURBED SOIL**

FITTING PIPE SIZE	DEAD END OR TEE	90° BEND	45° BEND	22.5° BEND
4"	1' X 2'	1.5' X 1.5'	1' X 1.5'	1' X 1'
6"	2' X 2'	2.5' X 2.5'	2' X 1.5'	1' X 1.5'
8"	2.25' X 3'	3' X 3'	2' X 2.5'	1.5' X 1.5'
10"	3.5' X 3'	4' X 3.75'	2.75' X 3'	2' X 2'
12"	4' X 4'	4' X 5'	3' X 4'	2' X 3'
16"	5' X 5.5'	6' X 6.5'	4' X 5'	3' X 3.5'
18"	7' X 8'	8' X 10'	5' X 6'	4' X 4.5'
24"	7.75' X 8'	9.25' X 9.5'	6.5' X 7'	4.5' X 5.25'

- NOTES:**
1. ONE LAYER OF #15 FELT TO BE USED TO PREVENT ADHESION OF CONCRETE TO FITTING.
 2. ALL THRUST BLOCKS TO BE BACKED AGAINST UNDISTURBED SOIL.
 3. THRUST BLOCK DIMENSIONS BASED ON SM SOIL CLASSIFICATION.
 4. CONCRETE MIN. 2,500 PSI.
 5. JOINT RESTRAINTS ARE TO BE USED ON ALL FITTINGS, THRUST BLOCKS REQUIRED ON 90° BENDS, 45° BENDS, TEES, TAPPING SLEEVES, AND DEAD ENDS.



90° BEND - M.J.

TYPICAL THRUST BLOCK INSTALLATIONS
N.T.S.

**EXISTING WATER MAIN SHUTDOWN
BEST MANAGEMENT PRACTICES DETAIL**

DATE: 9-2007 N.T.S. REV: DETAIL

D-50



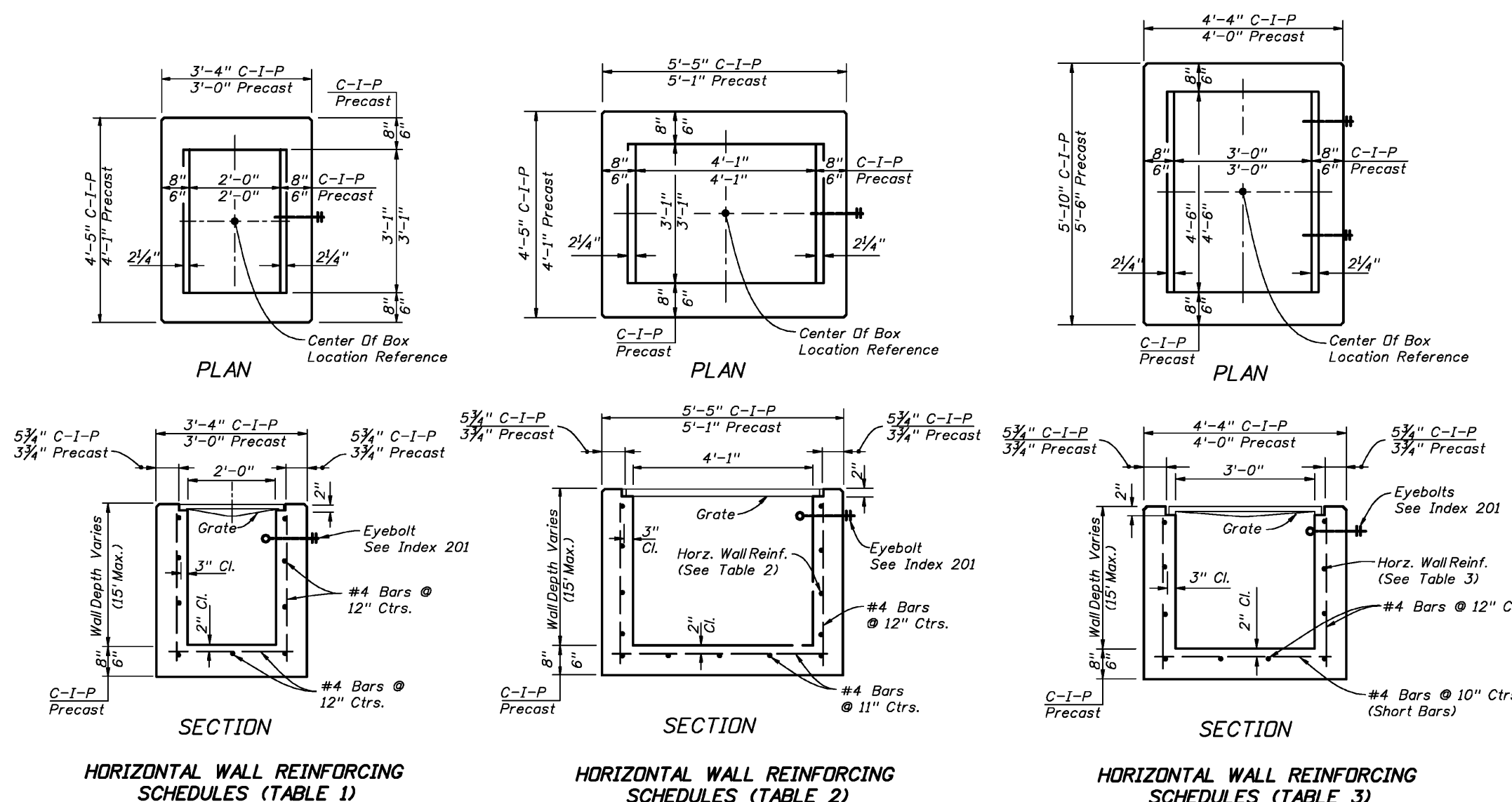
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CHECKED BY: P. BATTLE, P.E. DATE: 3-10-2016
PROJECT MANAGER: E. BUSH INSTRUCT: 5
SECTION/TOWNSHIP/RANGE: 8-11-14-19 / 1N / 31W / 13 / 32 W

RBA

DRAWN BY: C. DUELLMAN DATE: MARCH 2016
DATE: APPROVAL: SIGNATURE: FIELD BOOK PAGES:

DRAWING NUMBER: L-4814
PROJECT NUMBER: ENG412
SURVEY NUMBER: 2012.041
SHEET 40 OF



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (sq. ft.)	MAX. SPACING	WWF
0'-15"	A12	0.20	12"	8"

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (sq. ft.)	MAX. SPACING	WWF
0'-6"	A12	0.20	12"	8"
6'-10"	A6	0.20	6"	5"
10'-13"	A4	0.20	4"	3"
10'-15"	B5.5	0.24	5 1/2"	5"

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

WALL DEPTH	SCHEDULE	AREA (sq. ft.)	MAX. SPACING	WWF
0'-5"	A12	0.20	12"	8"
0'-7.5"	A6	0.20	6"	5"
7.5'-10"	B5.5	0.24	5 1/2"	5"
10'-15"	C6.5	0.37	6 1/2"	6"

TYPE C

Recommended Maximum Pipe Size:
 2'-0" Wall - 18" Pipe
 3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

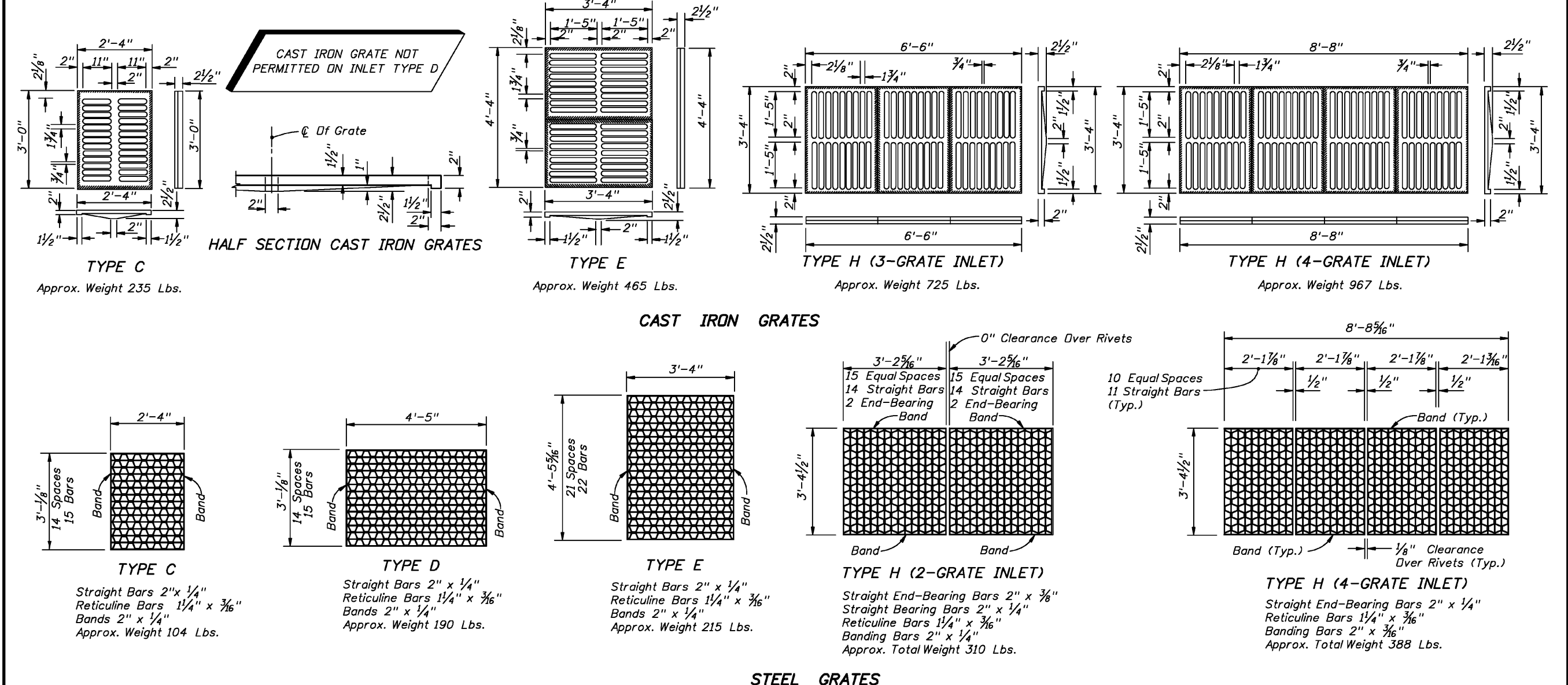
TYPE D

Recommended Maximum Pipe Size:
 3'-1" Wall - 24" Pipe
 4'-1" Wall - 36" Pipe

TYPE E

Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 4'-6" Wall - 36" Pipe

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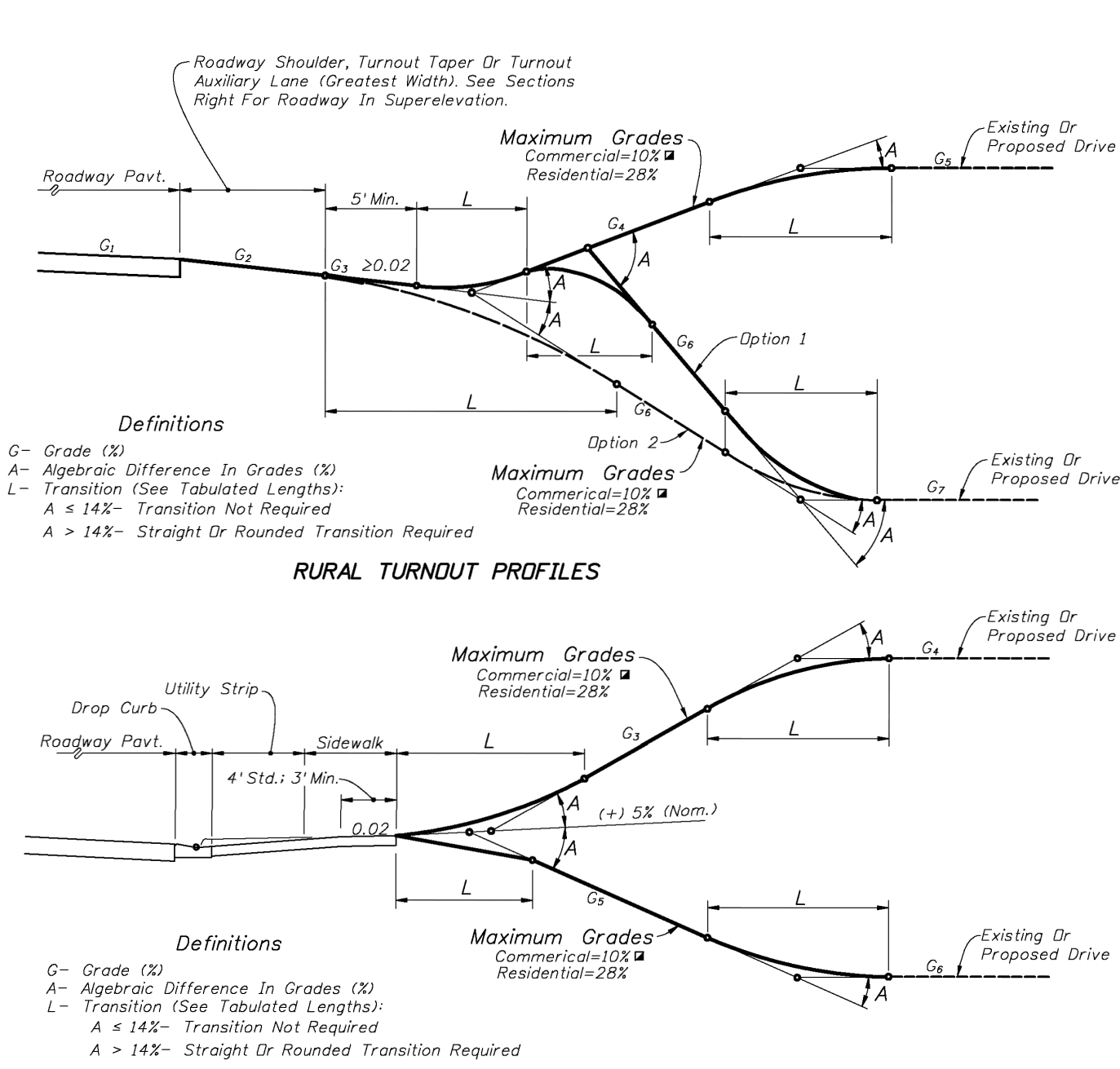
STEEL GRATES

NOTE: Steel Grates Are Required On Inlets With Traversable Slots And On Inlets Where Bicycle Traffic Is Anticipated.

GENERAL NOTES

- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheelloads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to bicycles and/or pedestrians shall have traversable slots. The traversable slot modification is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dip galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- All exposed edges and corners shall be 1/4" chamfer or beveled to 1/4" radius.
- Concrete inlet pavement to be used on inlets without slots and inlets with nontraversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see "TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS."
- Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, SY.
- For supplementary details see Index No. 201.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

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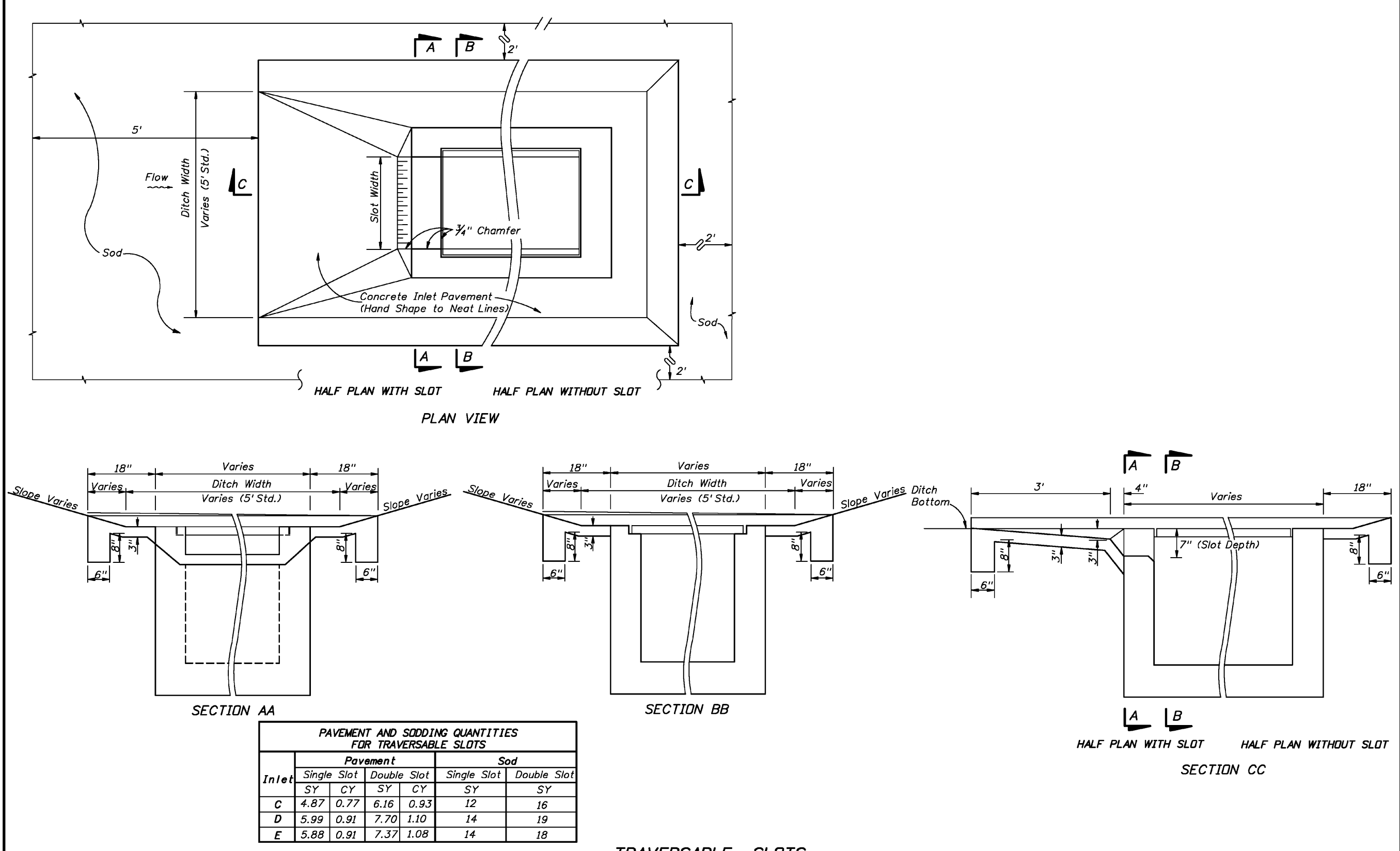


LENGTHS (L) (FT.)

A	CRESTS				SAGS			
	Desirable	Minimum	Desirable	Minimum	Desirable	Minimum	Desirable	Minimum
6-15%	3	0	5	0	3	0	5	0
14%	3	0	10	0	3	0	10	0
15%	3	2.5	10	3	5	3	10	5
16%	5	3	10	4	6	4	10	6
17%	6	3.5	10	5	8	5	10	7
18%	6	4	10	6	9	6	10	8
19%	7	4.5	10	7	11	7	12	9
20%	8	5	11	8	12	8	13	10
21%	9	5.5	12	9	13	8.5	14	11
22%	10	6	13	10	14	9	16	12
23%	10	6.5	14	10.5	14	9.5	16	12.5
24%	11	7	15	11	15	10	17	13
25%	12	7.5	15	11.5	16	10.5	18	13.5
26%	12	8	16	12	17	11	18	14
27%	13	8.5	17	12.5	17	11.5	19	14.5
28%	14	9	17	13	18	12	20	15
29%	NA	NA	22	14	NA	NA	21	17
30-31%	NA	NA	23	15	NA	NA	22	18
32-33%	NA	NA	24	16	NA	NA	23	20
34-36%	NA	NA	26	17	NA	NA	25	21
37-38%	NA	NA	27	18	NA	NA	26	22
39-41%	NA	NA	29	19	NA	NA	28	24
42-43%	NA	NA	30	20	NA	NA	29	25
44-46%	NA	NA	32	21	NA	NA	31	26
47-48%	NA	NA	33	22	NA	NA	32	27
49-51%	NA	NA	34	23	NA	NA	34	28
52-54%	NA	NA	36	24	NA	NA	35	30
55-56%	NA	NA	37	25	NA	NA	36	31

RECOMMENDED TURNOUT PROFILE TRANSITION LENGTHS (L) (FT.)

ROADWAY PAVEMENT SLOPES AND SLOPES OF ABUTTING RURAL TURNOUT SURFACES (G₂)
 SUPERELEVATION SECTIONS



PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS

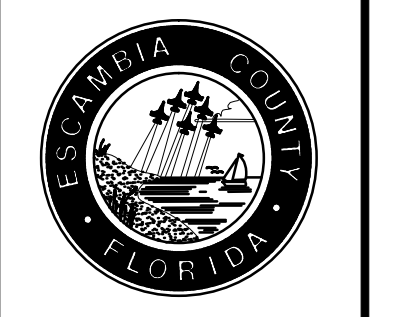
Inlet	Pavement		Sod	
	Single Slot	Double Slot	Single Slot	Double Slot
C	4.87	0.77	6.16	0.93
D	5.99	0.91	7.70	1.10
E	5.88	0.91	7.37	1.08

TRAVERSABLE SLOTS

- STORMWATER RUNOFF AND PROFILE OPTION NOTES
- Turnouts shall neither cause water to flow on or across the roadway pavement, nor cause water ponding or erosion within the State right of way. On all rural turnouts the transition (L) nearest the roadway shall be sloped or crowned to direct stormwater runoff to the roadside ditch. Inlets, flumes or other appropriate runoff control devices shall be constructed when runoff volumes are sufficient to cause erosion of the shoulder. Similar runoff control devices shall be constructed as necessary to properly direct and control the stormwater runoff on urban turnouts.
 - The Option 1 profile is intended for locations where roadway, turnout taper and auxiliary lane stormwater runoff volumes are relatively large. The Option 2 profile is intended for locations where runoff volumes are relatively small and/or where there is no roadside ditch.

TURNOUT PROFILES

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 REVISION NO. 5
 SECTION/TOWNSHIP/RANGE: 8-11-14-19 (N. 13 W. 13 N. 13 E.)

RBA
 DRAWN BY: C. DUELLMAN
 DATE: MARCH 2016
 FIELD BOOK PAGES:

DRAWING NUMBER: L-4814
 PROJECT NUMBER: ENG412
 SURVEY NUMBER: 2012.041
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