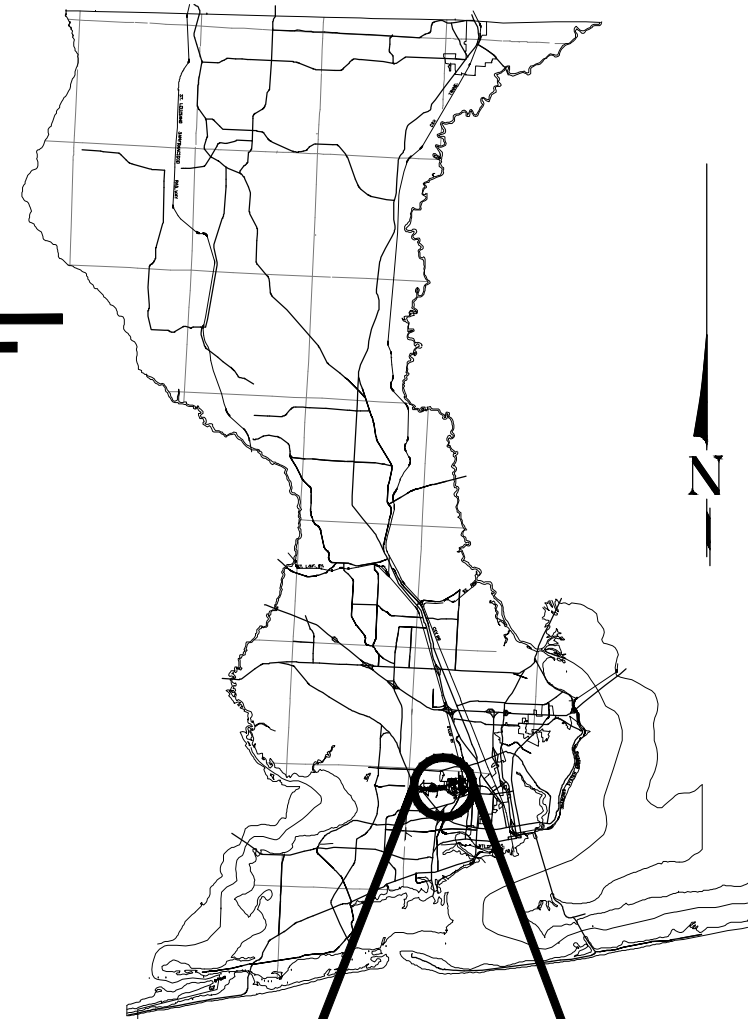




# BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA ENGINEERING DEPARTMENT



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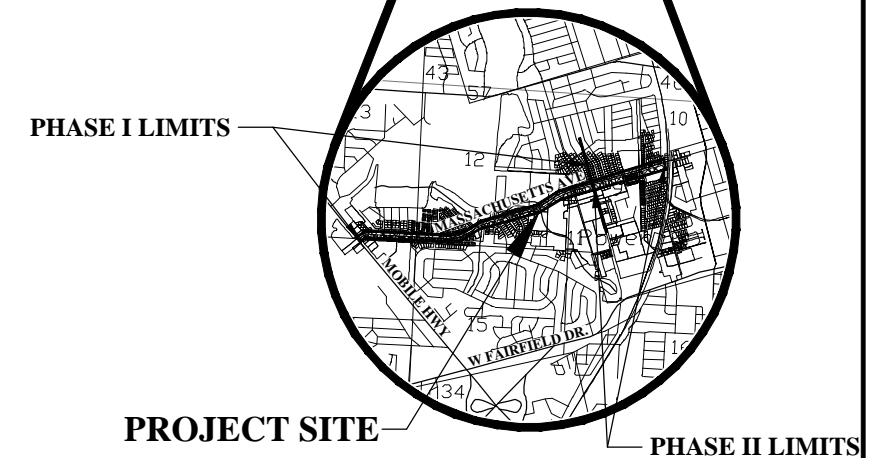
# PLANS PROPOSED FOR MASSACHUSETTS AVE. SIDEWALK AND DRAINAGE IMPROVEMENTS



**SIGMA**  
 CONSULTING  
 GROUP, INC.  
 3298 SUMMIT BOULEVARD, SUITE 32  
 PENSACOLA, FLORIDA 32503  
 PHONE: (850) 332-7912  
 CERTIFICATE OF AUTHORIZATION #26889

### COMMISSIONERS

- |                |                              |
|----------------|------------------------------|
| DISTRICT ONE   | JEFF BERGOSH                 |
| DISTRICT TWO   | MIKE KOHLER                  |
| DISTRICT THREE | LUMON MAY (CHAIRMAN)         |
| DISTRICT FOUR  | ROBERT BENDER                |
| DISTRICT FIVE  | STEVEN BARRY (VICE CHAIRMAN) |



**VICINITY MAP**

## FINAL PLANS FOR BID JANUARY, 2023

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: <b>Denise Brewer</b>	
SECTION / TOWNSHIP / RANGE: <b>S-9/T-2S/R-30-W</b>	DISTRICT: <b>1</b>
PROJECT ENGINEER: <b>Jason L. Lashley, P.E.</b>	REG FLA ENG NO: <b>57353</b>
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.
- 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 THE FLORIDA STORMWATER EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2008 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.
- ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY OR ITS DESIGNEE WILL 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 (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBIA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
- EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- 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.
- 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. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL 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:  

MR. JOE BARRETT, PLS ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427	BRADLEY J. ROBERTS P.L.S. SIGMA CONSULTING GROUP, INC 3298 SUMMIT BOULEVARD : SUITE 32 PENSACOLA, FLORIDA 32503 PH: (850) 332-7912
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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.
- GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.
- ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL REMAIN 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 AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED PLASTIC BREAK AWAY MAILBOX.
- THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT SPECIFICATIONS AND STANDARD PLANS.
- WHERE UNSUITABLE MATERIAL, AS DEFINED BY THE COUNTY SPECIFICATIONS SECTION 02300, 1.3(i), IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.
- PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPES LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.

- IF ARCHAEOLOGICAL MATERIAL/PREHISTORIC ARTIFACTS SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME, THE PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE APPLICANT/RECIPIENT, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AND THE DSH/FEMA REGION IV ENVIRONMENTAL OFFICER AND FDEM STATE ENVIRONMENTAL LIAISON OFFICER FOR FURTHER GUIDANCE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.
- IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH F.S. 872.05.

**UTILITY NOTES:**

- 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.
- 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:

SEWER/WATER - EMERALD COAST UTILITY AUTHORITY  
 MR. JACOB KEARLEY  
 P.O. BOX 15311  
 PENSACOLA, FL. 32514 PH: (850) 969-5823  
 JACOB.KEARLEY@ECUA.FL.GOV

ELECTRIC - FLORIDA POWER & LIGHT  
 MR. DEREK GILMORE  
 ONE ENERGY PLACE  
 PENSACOLA, FL 32520 PH: 850-777-9476  
 DEREK.GILMORE@FPL.COM

NATURAL GAS - PENSACOLA ENERGY  
 MR. ANDREW BRISKE  
 1625 ATWOOD DRIVE  
 PENSACOLA, FL. 32514 PH: (850) 474-5309  
 ABRISKE@CITYOFFPENSACOLA.COM

CABLE - COX CABLE  
 MR. TROY YOUNG  
 3405 MCLEMORE DRIVE  
 PENSACOLA, FL. 32514 PH: (850) 232-5044  
 TROY.YOUNG@COX.COM

TELEPHONE - AT&T FLORIDA  
 MR. TOM MANNING  
 6689 E MAGNOLIA STREET  
 MILTON, FL. 32570 PH: (850) 463-5176  
 TM2709@ATT.COM

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

ESCAMBIA COUNTY TRANSPORTATION & TRAFFIC DIVISION (TRAFFIC & SIGNALIZATION)  
 MR. ANDREA LUGAR  
 3363 WEST PARK PLACE  
 PENSACOLA, FL. 32505 PH:(850) 595-3639  
 ARLUGAR@MYESCAMBIA.COM

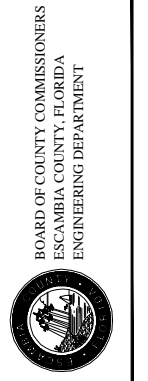
- AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM - 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.
- ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.
- ALL VEHICLE LOOP INSTALLATION SHALL BE DONE AS PER FDOT INDEX 660-001.
- CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- 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.

**PROJECT SPECIFIC NOTES:**

- ALL NECESSARY REMOVAL OF EXISTING ITEMS WITHIN THE PROJECT LIMITS SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM #5 "CLEARING AND GRUBBING"
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MINOR UTILITY ADJUSTMENTS NECESSARY TO CONSTRUCT SIDEWALK AND ASSOCIATED IMPROVEMENTS UNLESS OTHERWISE NOTED IN THE PLANS.
- ALL STOP/STREET SIGNS ON SIDE STREETS NEED TO BE CONSOLIDATED ONTO ONE POST ASSEMBLY.

**ECUA SIDEWALK NOTES:**

- MOST IF NOT ALL OF ECUA'S WATER METERS, VALVE BOXES, AND SEWER MANHOLES ARE DEPICTED ON PLANS.
- CONTRACTOR SHALL CALL SUNSHINE 811 FOR LOCATES (DIG TICKET). PLACE IN NOTES SECTION OF LOCATE REQUEST THAT LOCATES ARE FOR A SIDEWALK PROJECT AND THAT ONLY WATER METERS, VALVES, AND MANHOLES ALONG THE APPROXIMATE PATH OF PROPOSED SIDEWALK REQUIRE LOCATES.
- AT LEAST 1 WEEK PRIOR TO SIDEWALK CONSTRUCTION, CONTRACTOR SHALL CONTACT ECUA'S REGIONAL SUPERVISOR PERRY WHITE (969-3312) TO COMMUNICATE THE NUMBER AND LOCATION OF METERS REQUIRING RELOCATION AND VALVE BOXES REQUIRING ADJUSTMENT.
- ON METER RELOCATIONS, CTS COUPLINGS WITH INSERTS CAN BE USED ON WATER SERVICE TUBING UNDER SIDEWALKS AND GRASS, BUT NOT UNDER PAVEMENT. CONTRACTOR SHALL DISCUSS ANY ADDITIONAL TECHNICAL REQUIREMENTS OF THE REQUIRED WORK ON ECUA FACILITIES WITH THE APPROPRIATE PERSONS LISTED IN NOTE 3.
- UPON COMPLETION OF ALL WORK ON ECUA FACILITIES, CONTRACTOR SHALL CONTACT ECUA PERSONNEL IN NOTE 3 AND INQUIRE FROM THE ECUA PERSONNEL ABOUT POTENTIAL INSPECTIONS OF THE RELOCATIONS AND/OR ADJUSTMENTS AND SHALL CORRECT ANY DEFICIENCIES AS NOTED DURING INSPECTIONS WITHIN ONE WEEK OF INSPECTIONS.



MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 GENERAL NOTES SHEET

NO.	REVISION	DATE	

Project Number: 180701
Date: JANUARY 2023
Drawn By: F.E.A.
Designed By: F.E.A.
Checked By: J.L.L.
Sheet: <b>2</b>

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCES IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY FDOT SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION

1.A NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT CONSISTS OF SIDEWALK, GRADING, CURBING AND DRAINAGE IMPROVEMENT ON MASSACHUSETTS AVE AND PROVIDING FILL AND GRADING ACTIVITIES TO CREATE TWO (2) PONDS ON THE NORTH/SOUTH SIDES OF MASSACHUSETTS AVENUE AT THE LOW POINT OF THE PROJECT CORRIDOR.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

- CLEARING AND GRUBBING, EARTHWORK FOR STORM SEWER CONSTRUCTION
- CLEARING AND GRUBBING, EARTHWORK FOR POND EXPANSION
- CLEARING AND GRUBBING, EARTHWORK FOR ASPHALT AND BASE REMOVAL
- EARTHWORK, CONCRETE, AND ROADWAY CONSTRUCTION FOR ASPHALT BASE, SUBGRADE, AND SIDEWALK INSTALLATION.

1.C. AREA ESTIMATES:  
TOTAL SITE AREA: 19.0 ACRES  
TOTAL AREA TO BE DISTURBED: 9.2 ACRES

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:  
BEFORE: 0.54  
DURING: VARIES FROM 0.51 TO 0.54  
AFTER: 0.51  
SOILS DATA: SILT/ LOAM/ UNSUITABLE MATERIALS ANTICIPATED  
FOR ADDITIONAL SOILS DATA SEE PROJECT GEOTECHNICAL REPORT PREPARED BY NOVA ENGINEERING

OUTFALL INFORMATION:

EXISTING NORTH OUTFALL COLLECTS RUNOFF VIA CONCRETE DITCH, DISCHARGES TO AN UNNAMED TRIBUTARY THAT OUTFALLS TO PERDIDO BAY  
EXISTING SOUTH OUTFALL COLLECTS RUNOFF VIA CONCRETE DITCH, DISCHARGES TO AN UNNAMED TRIBUTARY THAT OUTFALLS TO PERDIDO BAY

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN PLAN SHEETS
- AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- AREAS NOT TO BE DISTURBED : SODDED / MAINTAINED AREAS BEYOND WEST ROW, EAST ROW.
- LOCATIONS OF TEMPORARY CONTROLS: TO BE SHOWN ON THE CONTRACTORS APPROVED EROSION CONTROL PLAN.
- SEDIMENTATION BASIN AND FLOATING/ STAKED TURBIDITY BARRIER ARE SUGGESTED.
- LOCATIONS OF PERMANENT CONTROLS: SOD ALL DISTURBED NON-PAVED AREAS (EXCLUDING DITCH BOTTOM)
- AREAS TO BE STABILIZED: ROADSIDE SWALES/ DITCHES.

1.F RECEIVING WATERS:  
SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES.

2.0 CONTROLS

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE GRADING PLAN OUTLINED IN THE CONSTRUCTION PLANS. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THE PARAGRAPH ABOVE REFERS TO A 7 DAY LIMIT BEFORE INITIATING STABILIZATION. THE DEP GENERIC PERMIT SPECIFIES 7 DAYS, BUT STRICTER REQUIREMENTS FROM OTHER PERMITTING AGENCIES WILL OFTEN APPLY AND SHOULD BE NOTED.

TEMPORARY:

- ARTIFICIAL COVERINGS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 104.
- TURF AND SOD IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 104.

PERMANENT:

- SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570 AND INDEX 105.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- SEDIMENT BARRIERS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 104.
- INLET PROTECTION IN ACCORDANCE WITH FDOT SPECIFICATION DETAIL 104 AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.
- SEDIMENT CONTAINMENT SYSTEM: SILT FENCE AND HAY BALES WILL BE UTILIZED AS THE TEMPORARY SEDIMENT CONTAINMENT SYSTEM.

PERMANENT:

- SOD

2.B STORMWATER MANAGEMENT:

EXISTING ROADSIDE DITCHES COLLECT STORMWATER AND DIRECT IT TO SURROUNDING WETLAND AREAS.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- PROVIDING LITTLER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- COVERING LOADED HAUL TRUCKS WITH TARPAULINS.
- REMOVE EXCESS DIRT FROM ROADS DAILY.
- STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO FDOT DESIGN STANDARDS.
- USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND HANDLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTION OF SECTION 570 OF THE FDOT SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 FEDERAL, STATE AND LOCAL PLANS AND PERMITS:

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NWFWMD) GENERAL ENVIRONMENTAL RESOURCE PERMIT PERMIT NO. GEN-033-291622-1

U.S. ARMY CORPS OF ENGINEERS (CORPS) NWP43  
PERMIT NO. SAJ-2020-00214 (NRP/NW-DLI)

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM COMPLY WITH THE FOLLOWING:

- SILT FENCE: MAINTAIN PER FDOT SPECIFICATION SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.
- SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

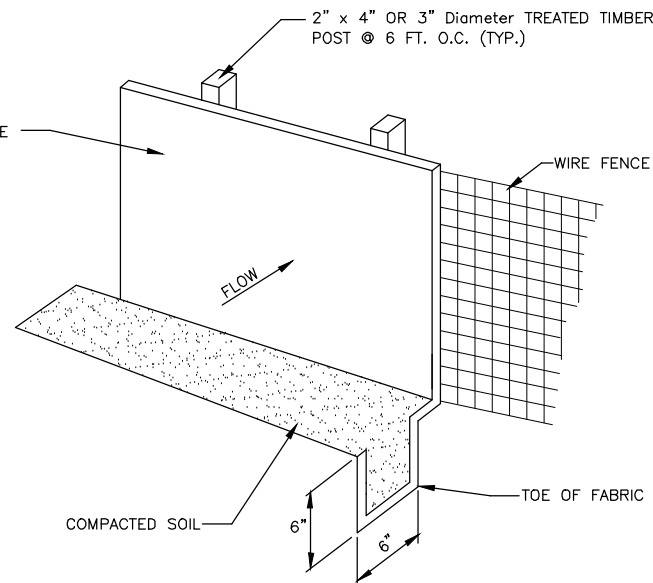
LIST OF INSPECTION ITEMS

- POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROLS.
- STORMWATER MANAGEMENT SYSTEMS.
- LOCATIONS WHERE VEHICLES ENTER THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. IF INSPECTIONS INDICATE THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGE OF POLLUTANTS, THAT CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

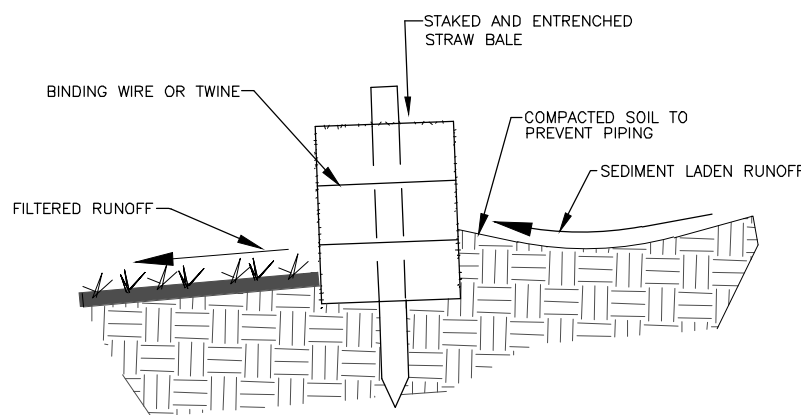
5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. **IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT ESCAMBIA COUNTY ENGINEERING.**



SILT FENCE DETAIL

NTS



DETAIL OF PROPERLY INSTALLED STRAW BALE

NTS

**SIGMA CONSULTING GROUP, INC.**  
3298 SUNMIT BOULEVARD, SUITE 32  
PENSACOLA, FLORIDA 32503  
PHONE: (850) 332-7912  
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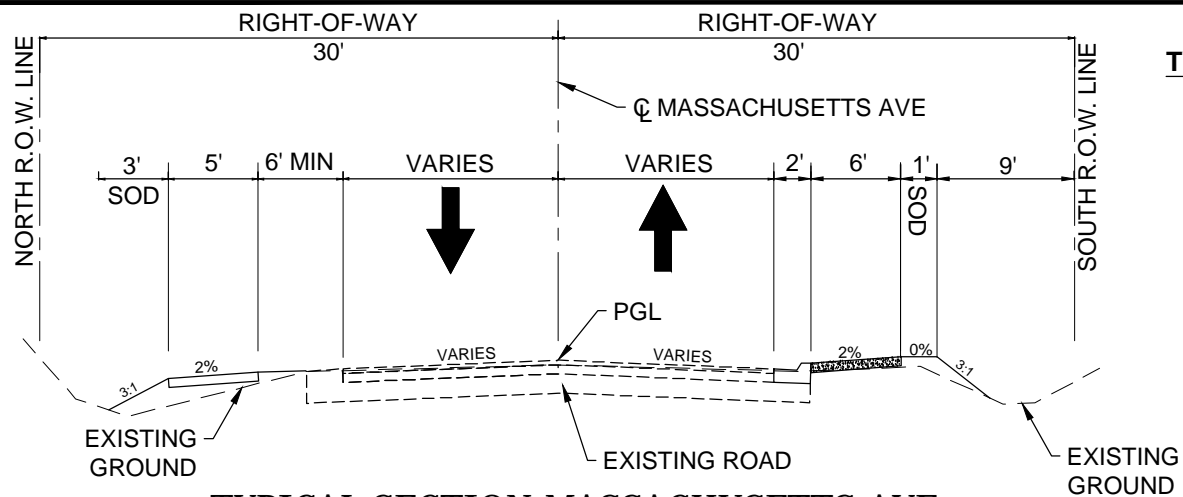
BOARD OF COUNTY COMMISSIONERS  
ESCAMBIA COUNTY, FLORIDA  
ENGINEERING DEPARTMENT

MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
IMPROVEMENTS  
STORMWATER POLLUTION PREVENTION PLAN

NO.	REVISION	DATE

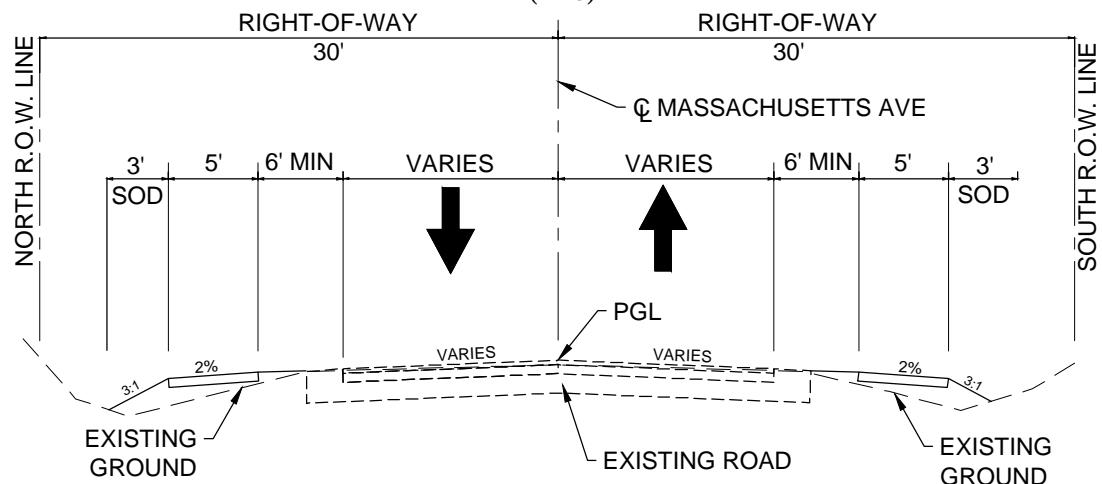
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Project Number:  
180701  
Date:  
JANUARY 2023  
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F.E.A.  
Designed By:  
F.E.A.  
Checked By:  
J.L.L.  
Sheet:  
3



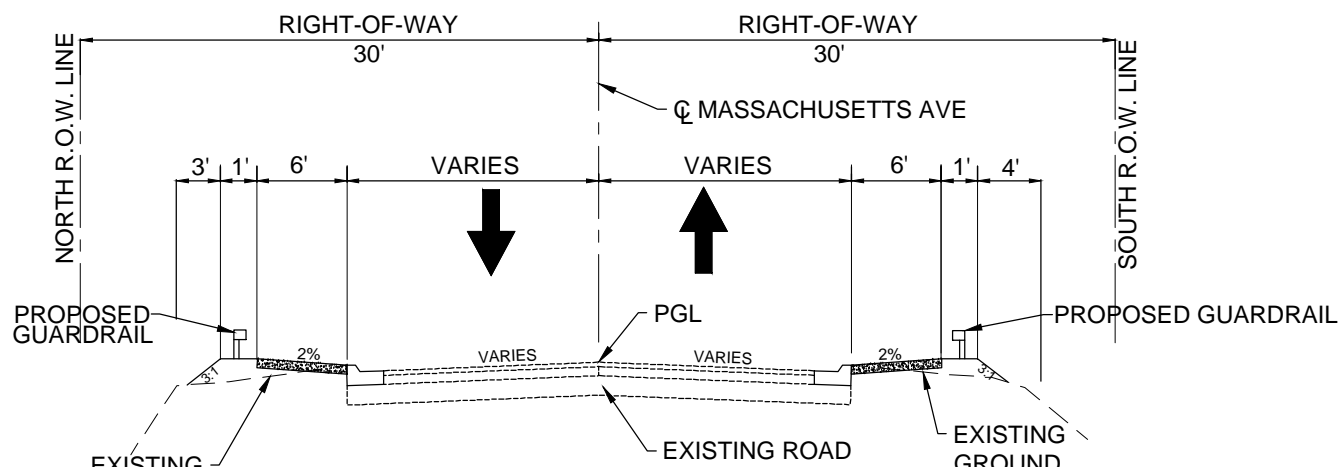
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 STA. 111+60.00 TO STA. 112+60.00  
 (NTS)



**TYPICAL SECTION MASSACHUSETTS AVE**

STA. 16+05.00 TO STA 28+15.00  
 STA. 55+08.00 TO STA 74+10.00  
 STA. 75+75.00 TO STA 78+65.00  
 STA. 86+50.00 TO STA 111+20.00  
 (NTS)

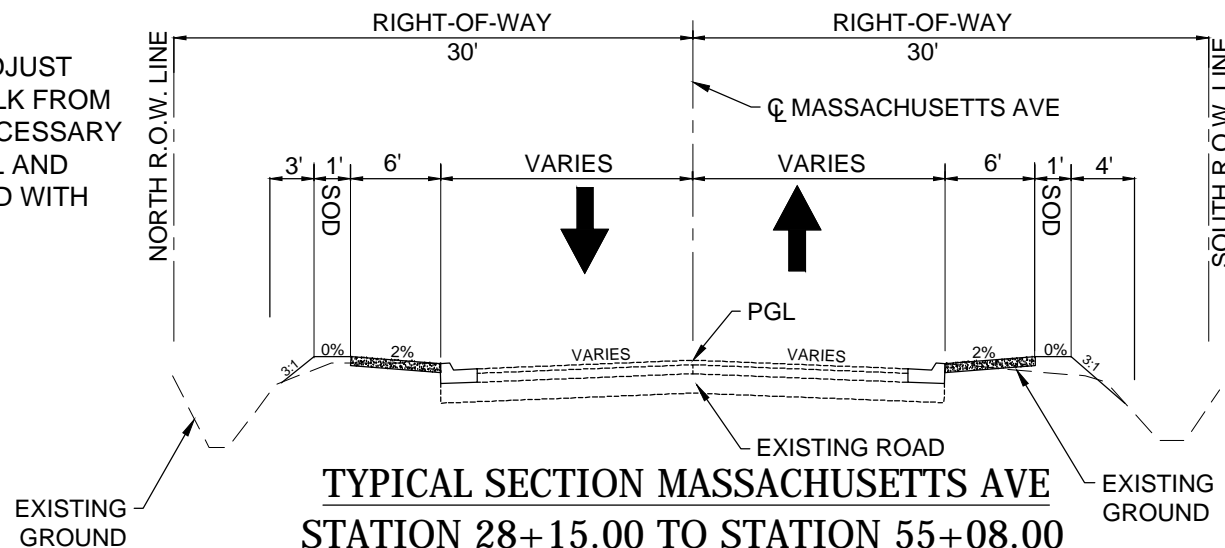


**TYPICAL SECTION MASSACHUSETTS AVE**

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 (NTS)

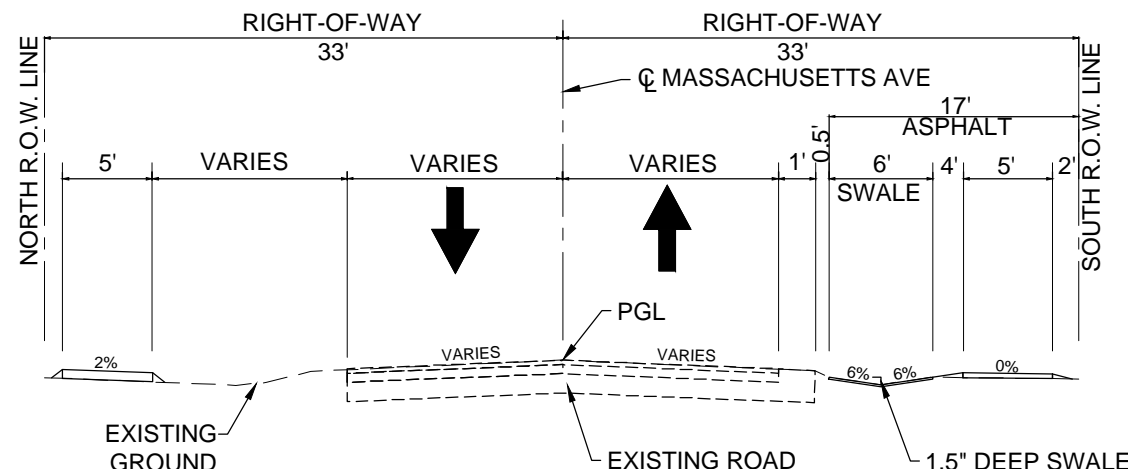
**TYPICAL SECTION NOTES:**

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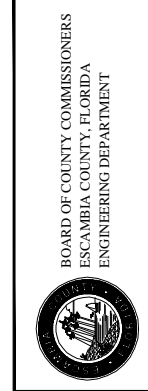
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 (NTS)



**TYPICAL D/W SECTION MASSACHUSETTS AVE**

STA. 87+90.00 TO STA 88+65.00  
 STA. 95+60.00 TO STA 97+30.00  
 STA. 102+60.00 TO STA 104+90.00  
 (NTS)



MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 TYPICAL SECTION SHEET

NO.	REVISION	DATE

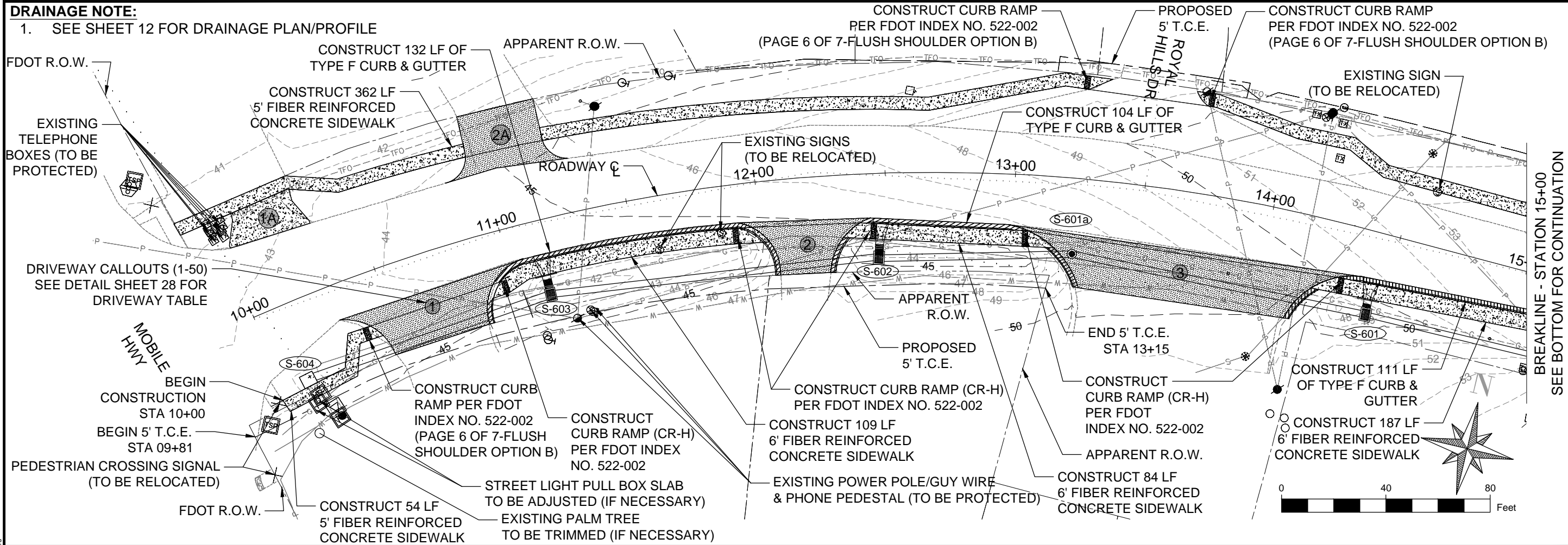
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Project Number: 180701  
 Date: JANUARY 2023  
 Drawn By: F.E.A.  
 Designed By: F.E.A.  
 Checked By: J.L.L.  
 Sheet: 4

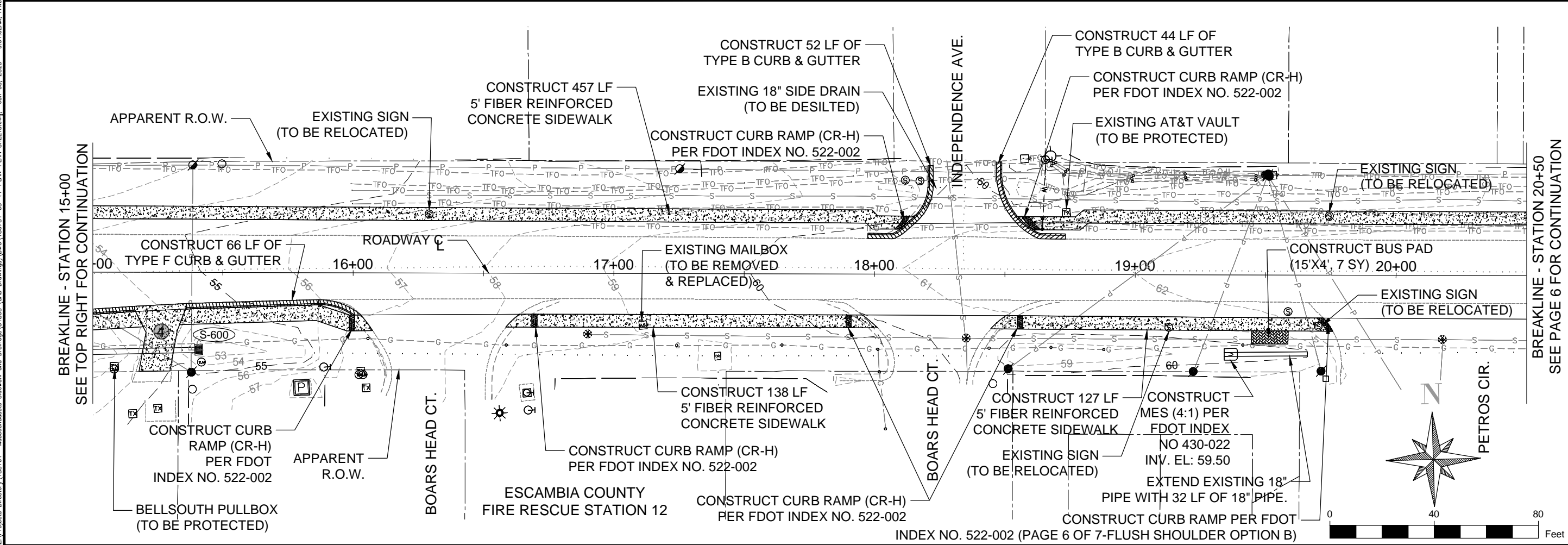
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**DRAINAGE NOTE:**

1. SEE SHEET 12 FOR DRAINAGE PLAN/PROFILE



BREAKLINE - STATION 15+00  
SEE BOTTOM FOR CONTINUATION



BREAKLINE - STATION 15+00  
SEE TOP RIGHT FOR CONTINUATION

BREAKLINE - STATION 20+50  
SEE PAGE 6 FOR CONTINUATION

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3298 SUMMIT BOULEVARD, SUITE 32  
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ENGINEERING DEPARTMENT

MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
IMPROVEMENTS  
SIDEWALK PLAN SHEETS

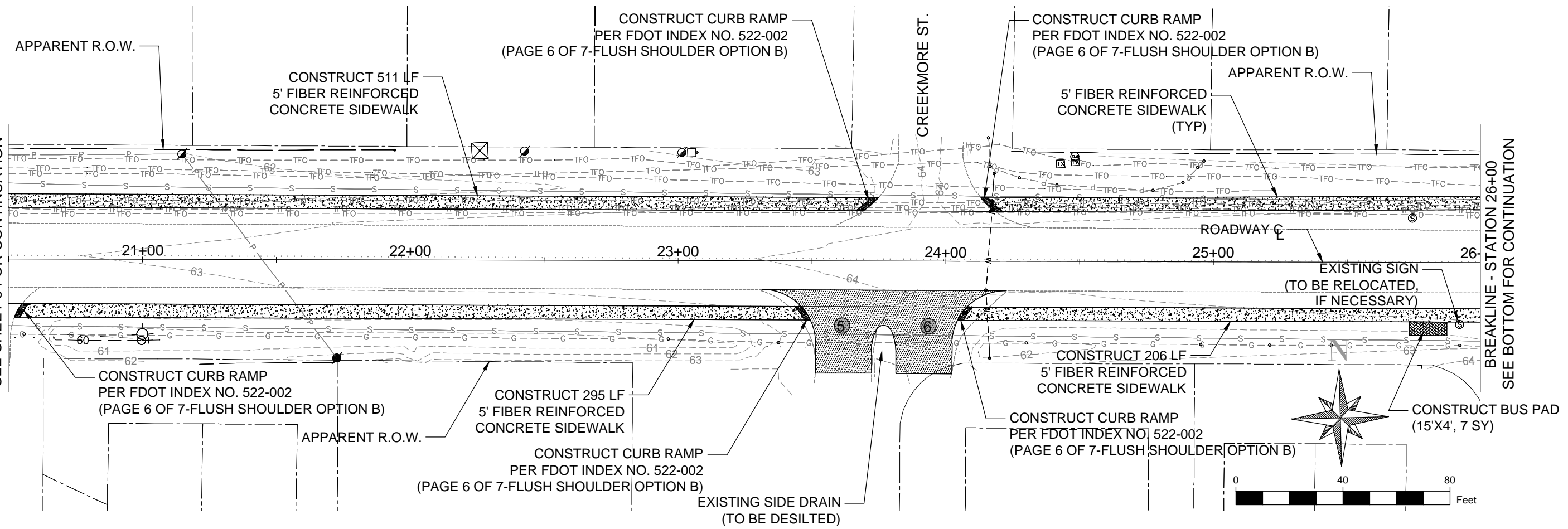
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Project Number: 180701  
Date: JANUARY 2023  
Drawn By: F.E.A.  
Designed By: F.E.A.  
Checked By: J.L.L.  
Sheet: 5

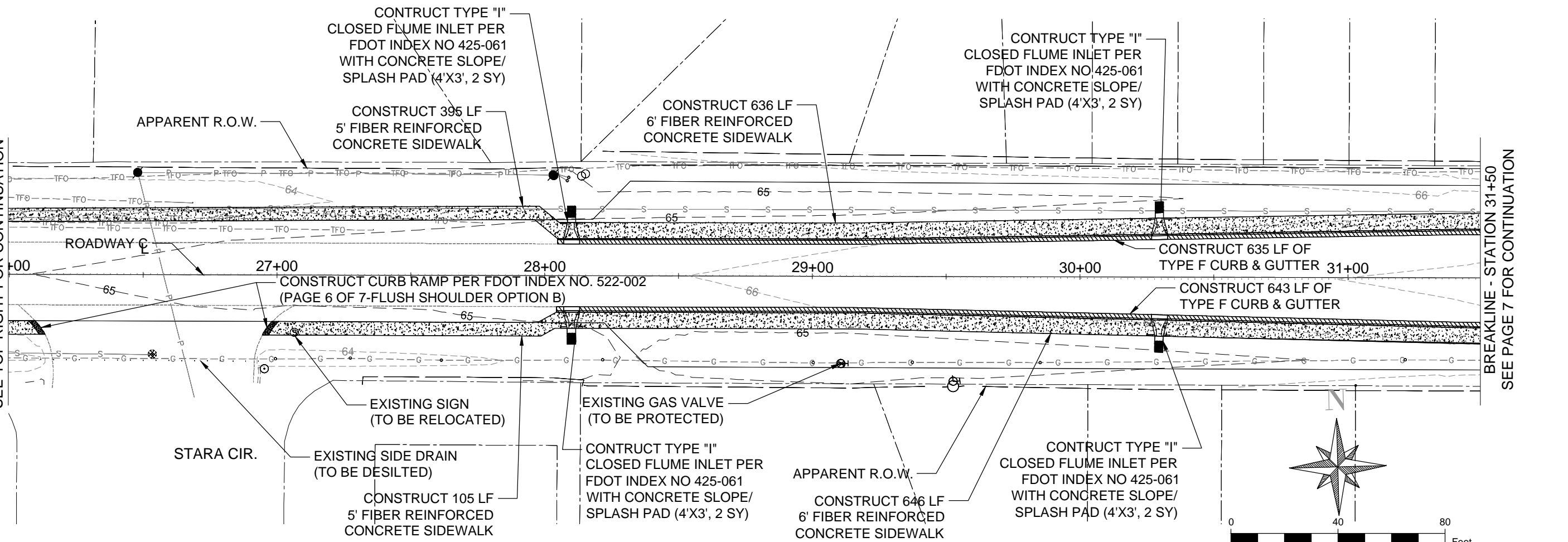
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SEE TOP RIGHT FOR CONTINUATION



BREAKLINE - STATION 31+50  
SEE PAGE 7 FOR CONTINUATION

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 IMPROVEMENTS  
 SIDEWALK PLAN SHEETS

NO.	REVISION	DATE

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180701

Date:  
JANUARY 2023

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F.E.A.

Designed By:  
F.E.A.

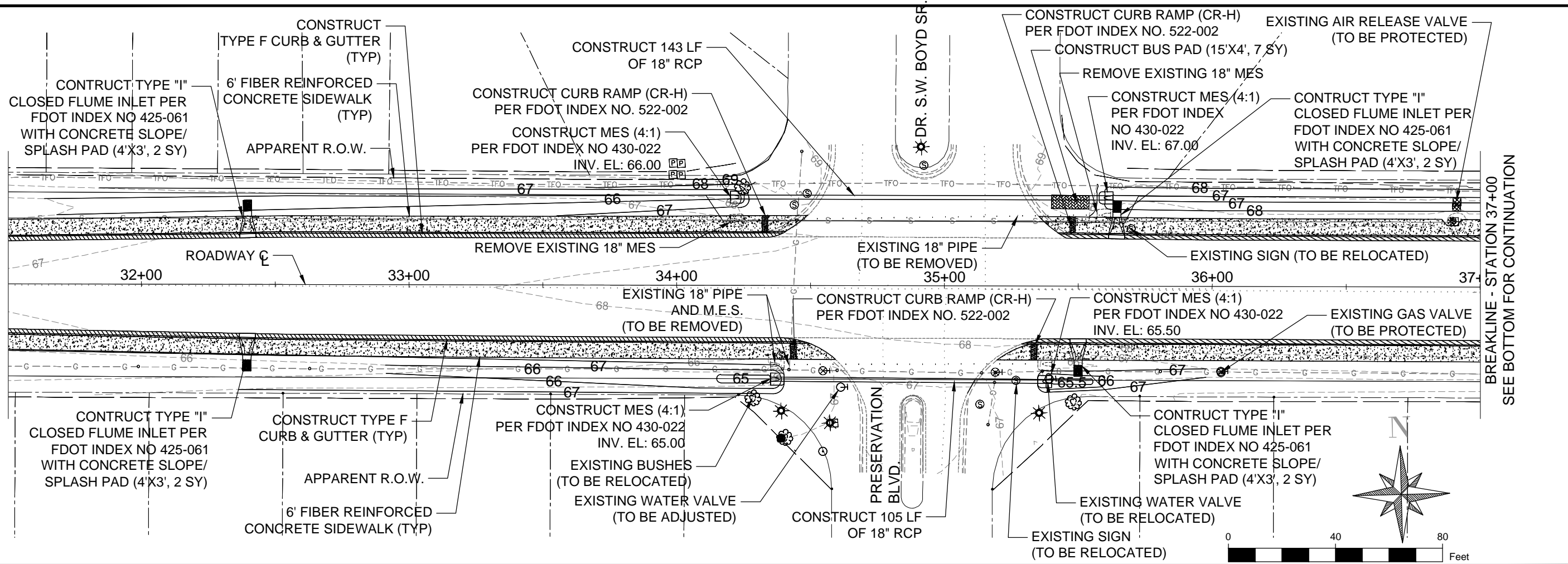
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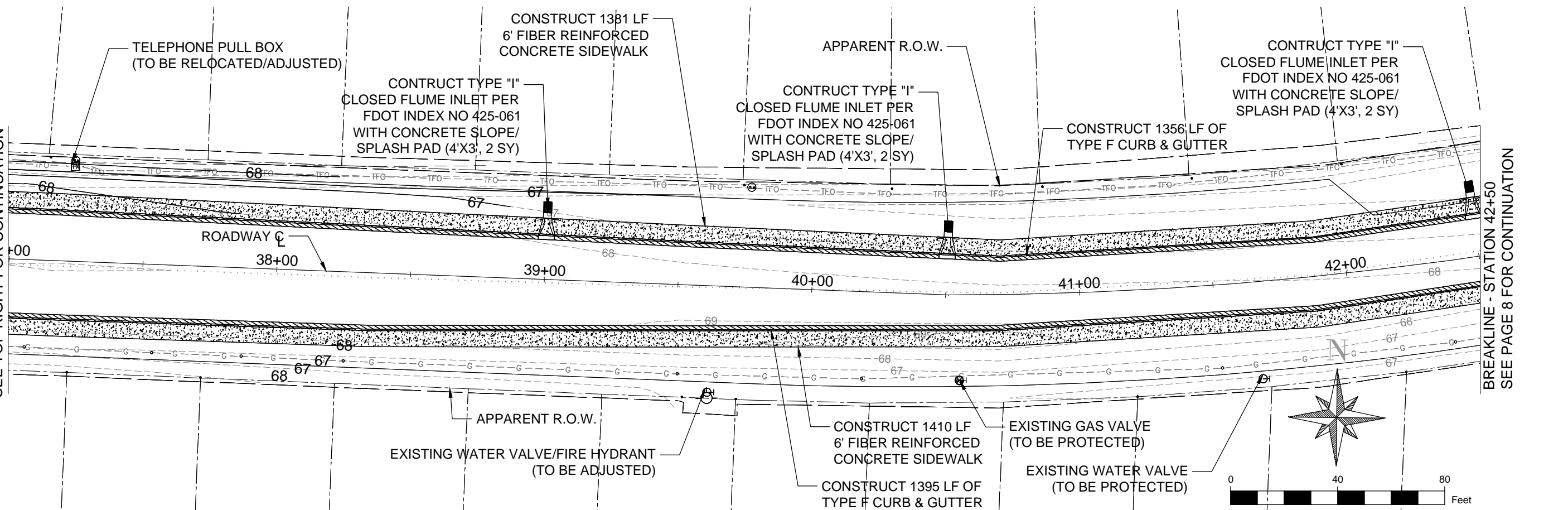
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SEE TOP RIGHT FOR CONTINUATION



BREAKLINE - STATION 42+50  
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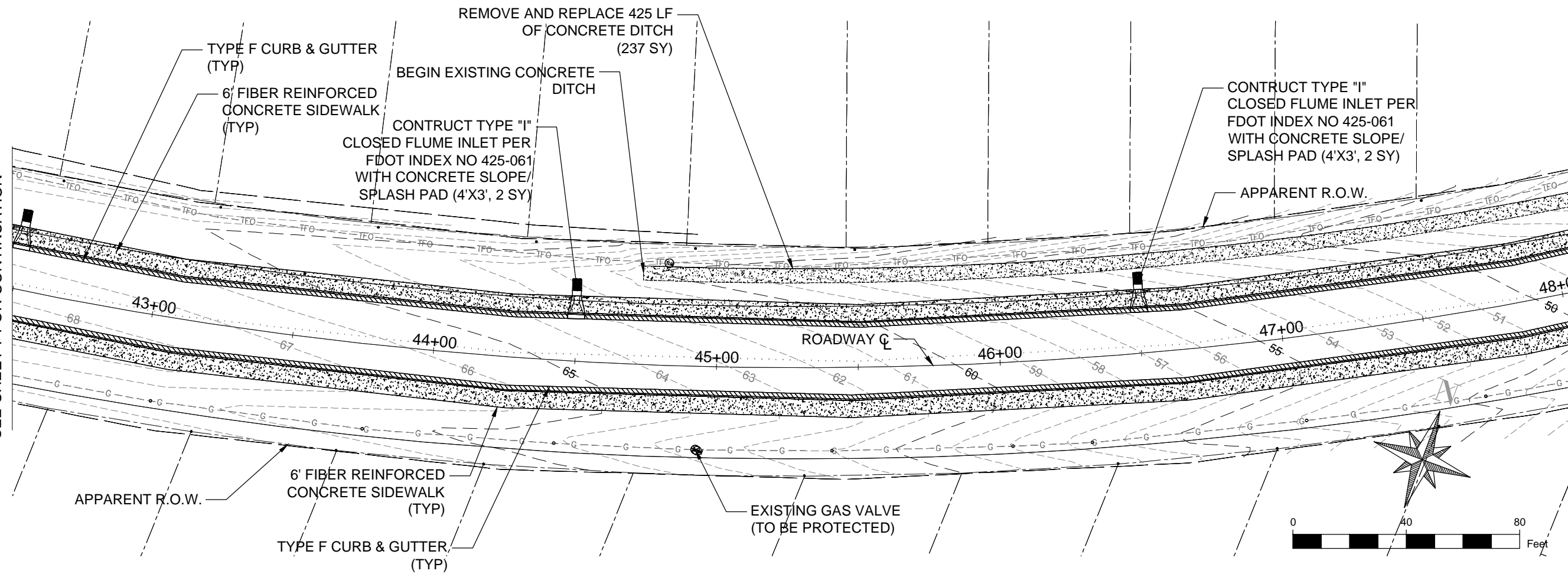
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 SIDEWALK & DRAINAGE  
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 SIDEWALK PLAN SHEETS

NO.	REVISION	DATE

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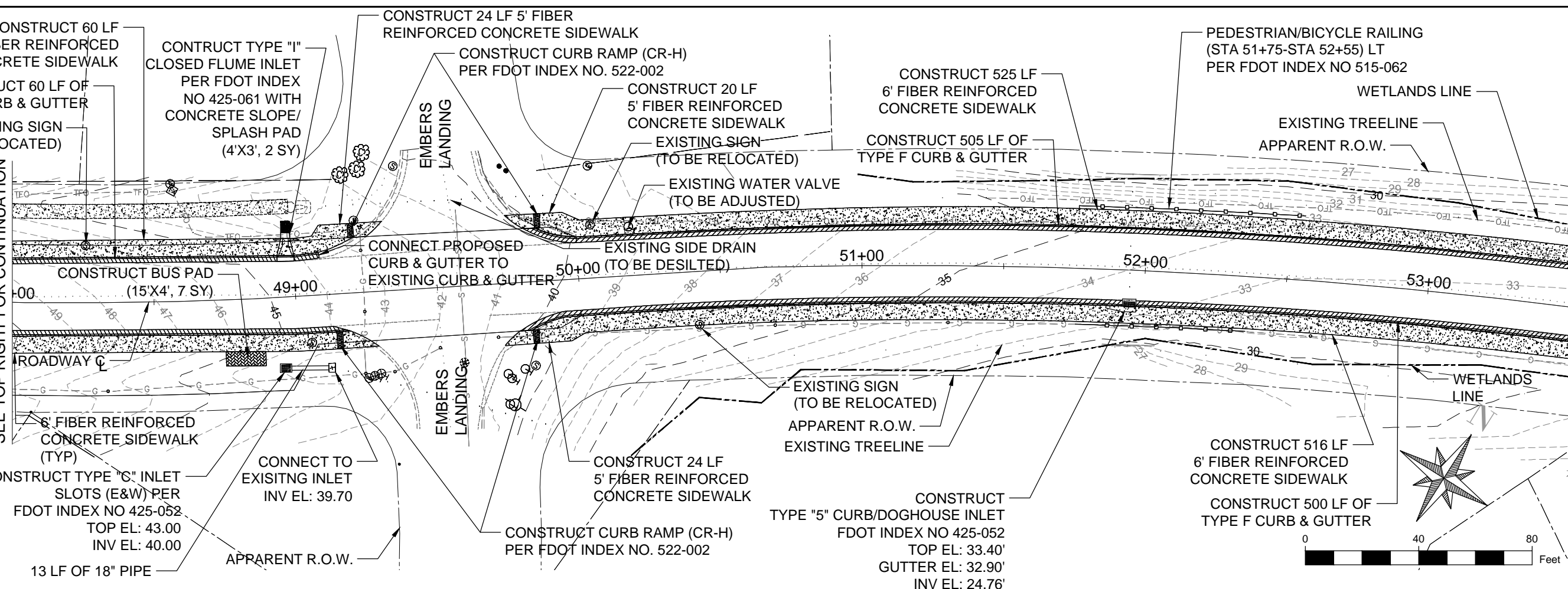
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Date:	JANUARY 2023
Drawn By:	F.E.A.
Designed By:	F.E.A.
Checked By:	J.L.L.
Sheet:	7

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SEE SHEET 7 FOR CONTINUATION



BREAKLINE - STATION 48+00  
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BREAKLINE - STATION 53+00  
SEE PAGE 9 FOR CONTINUATION

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 IMPROVEMENTS  
 SIDEWALK PLAN SHEETS

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Date:  
JANUARY 2023

Drawn By:  
F.E.A.

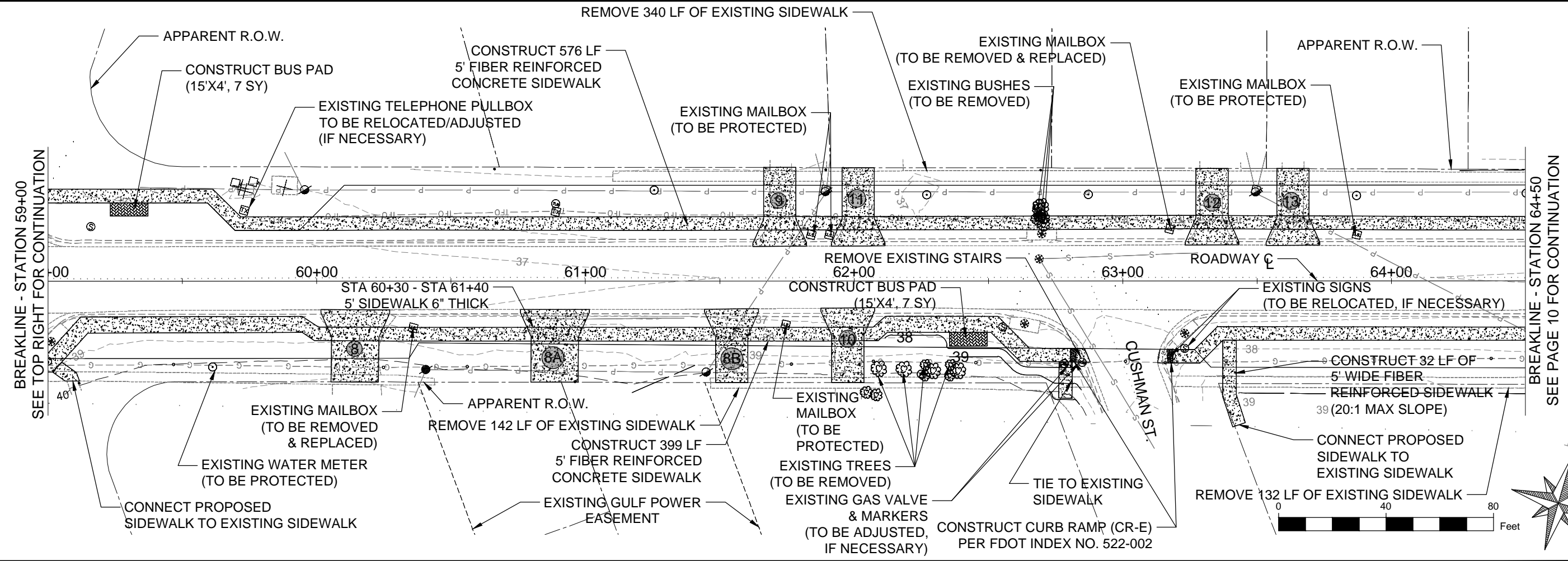
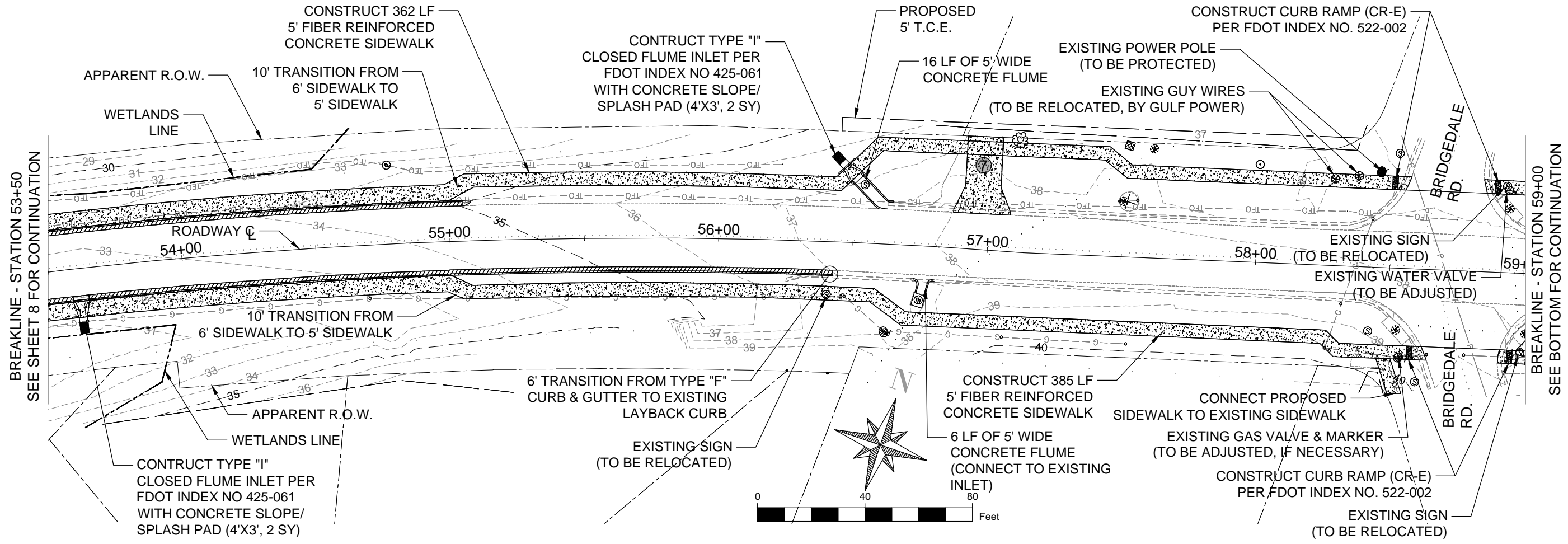
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Checked By:  
J.L.L.

Sheet:  
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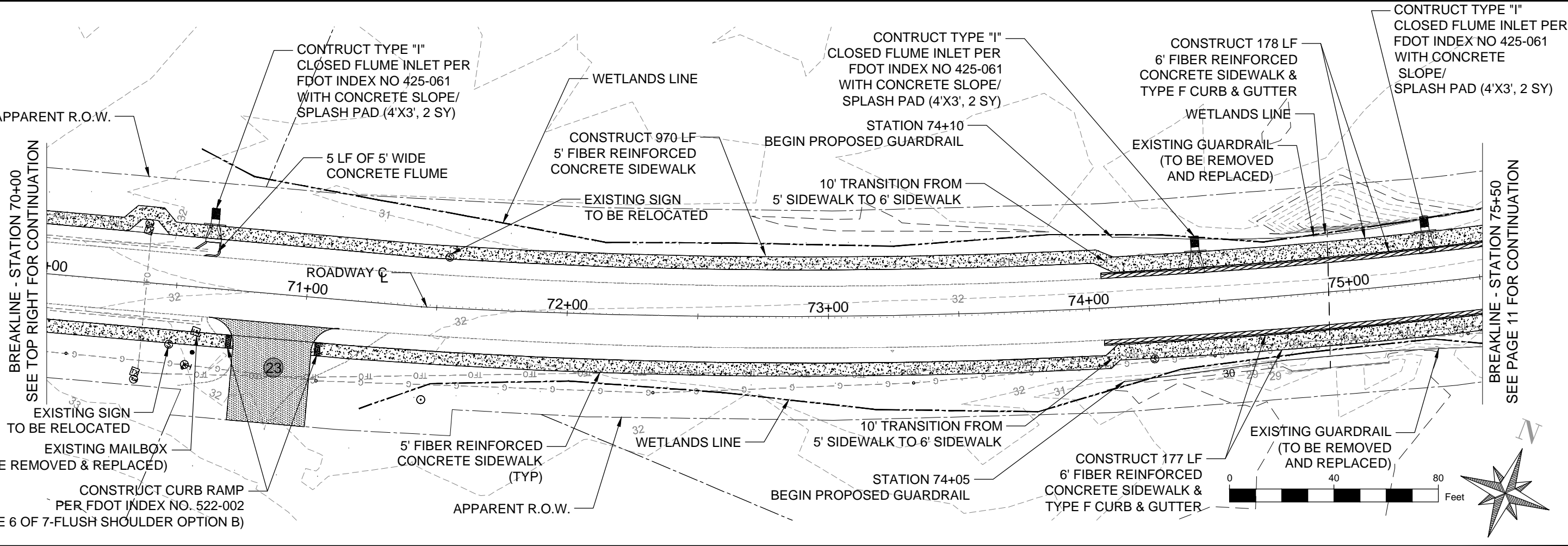
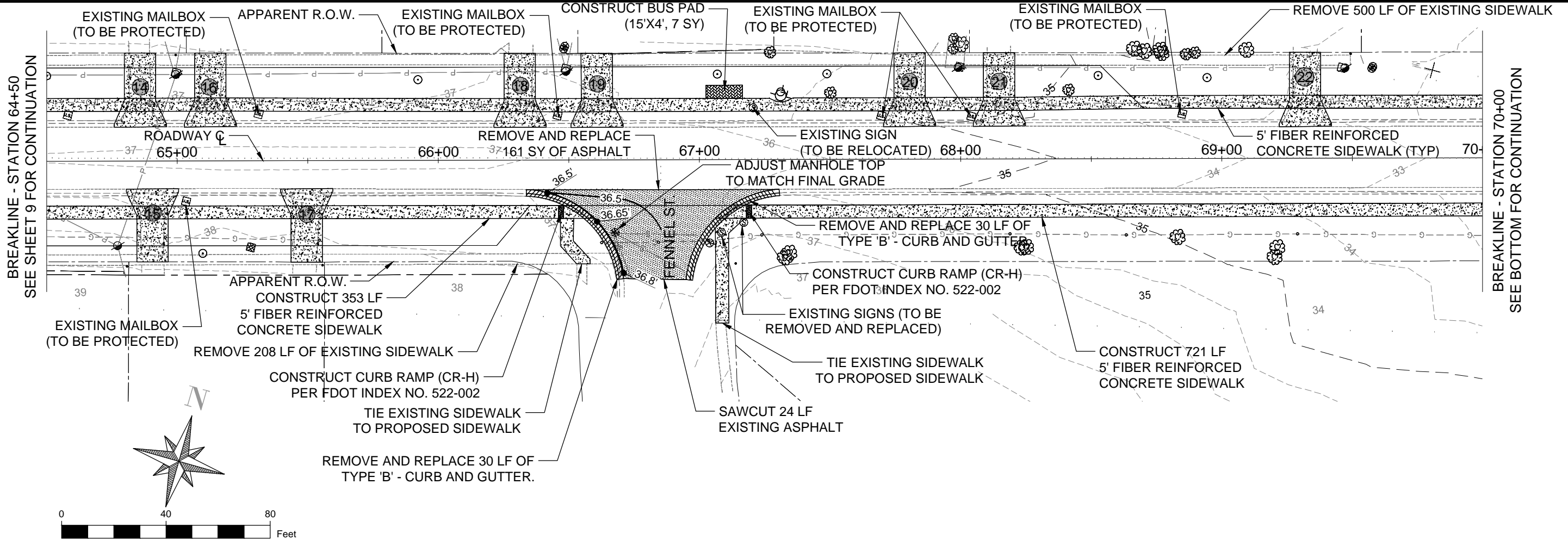
MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 SIDEWALK PLAN SHEETS

NO.	REVISION	DATE

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 Designed By: F.E.A.  
 Checked By: J.L.L.  
 Sheet: 9

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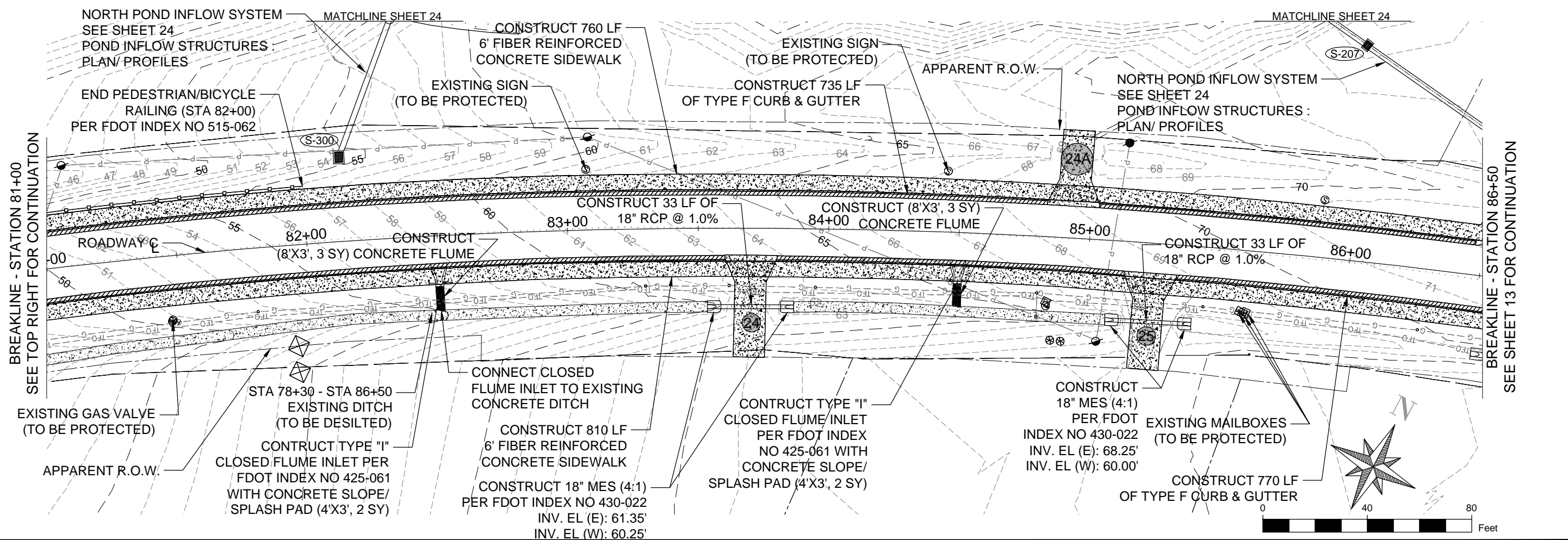
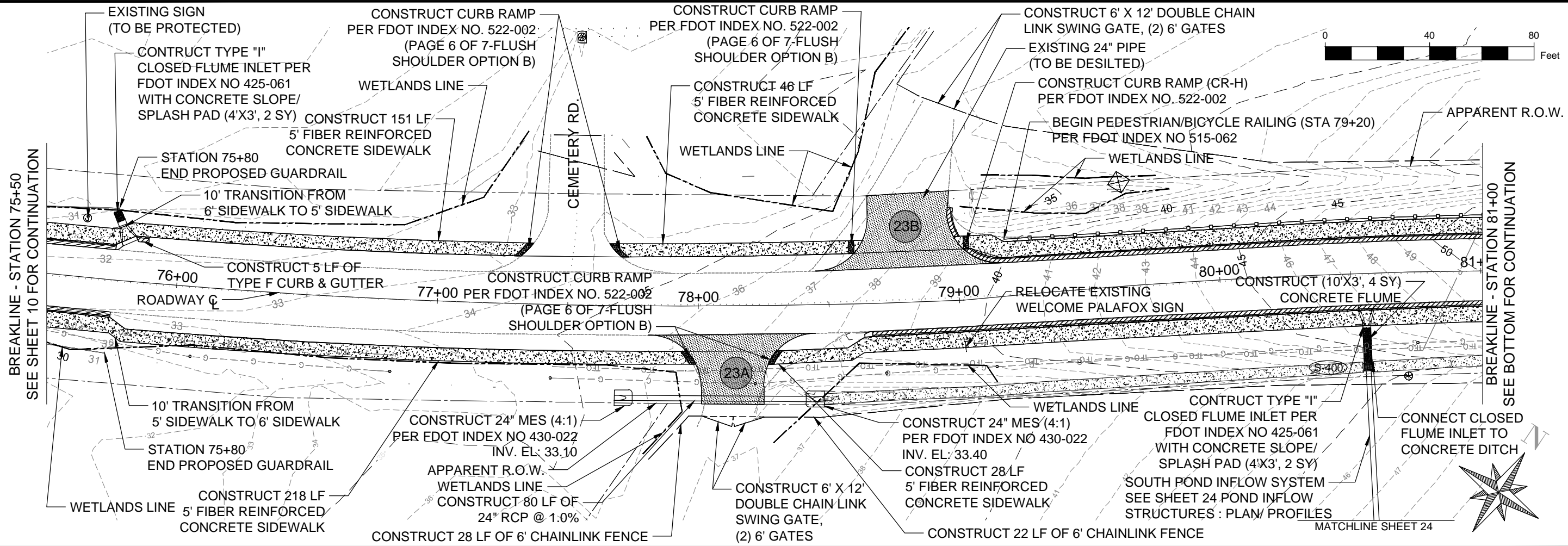
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 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 SIDEWALK PLAN SHEETS**

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 Sheet: 10



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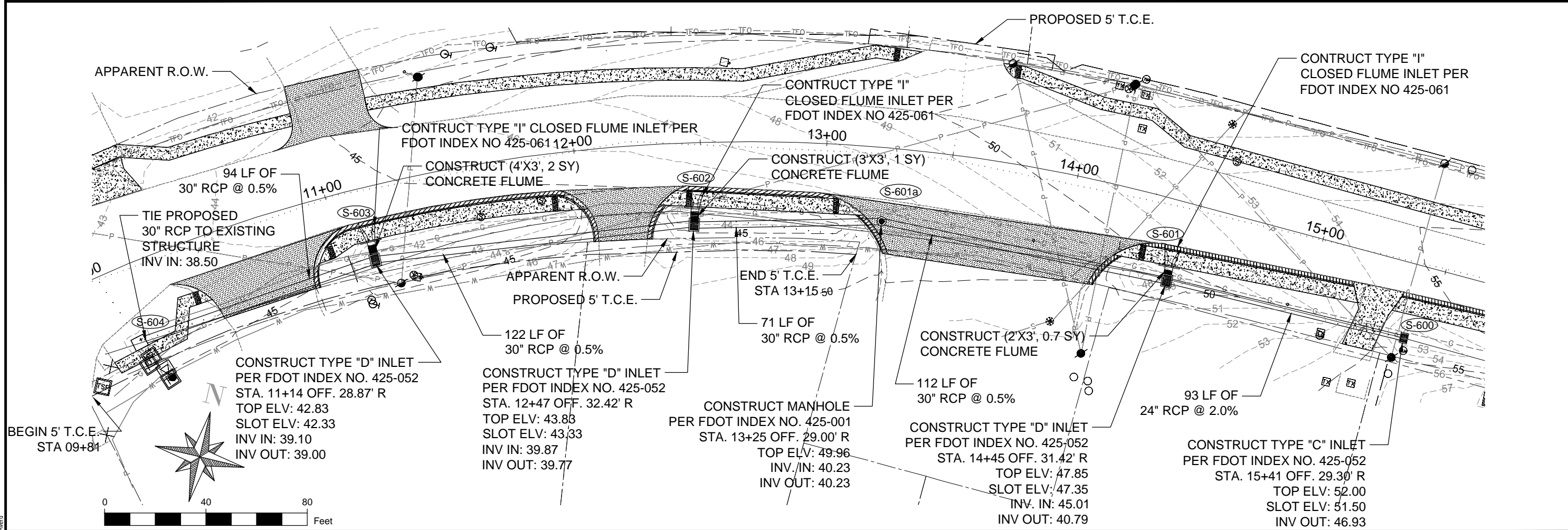
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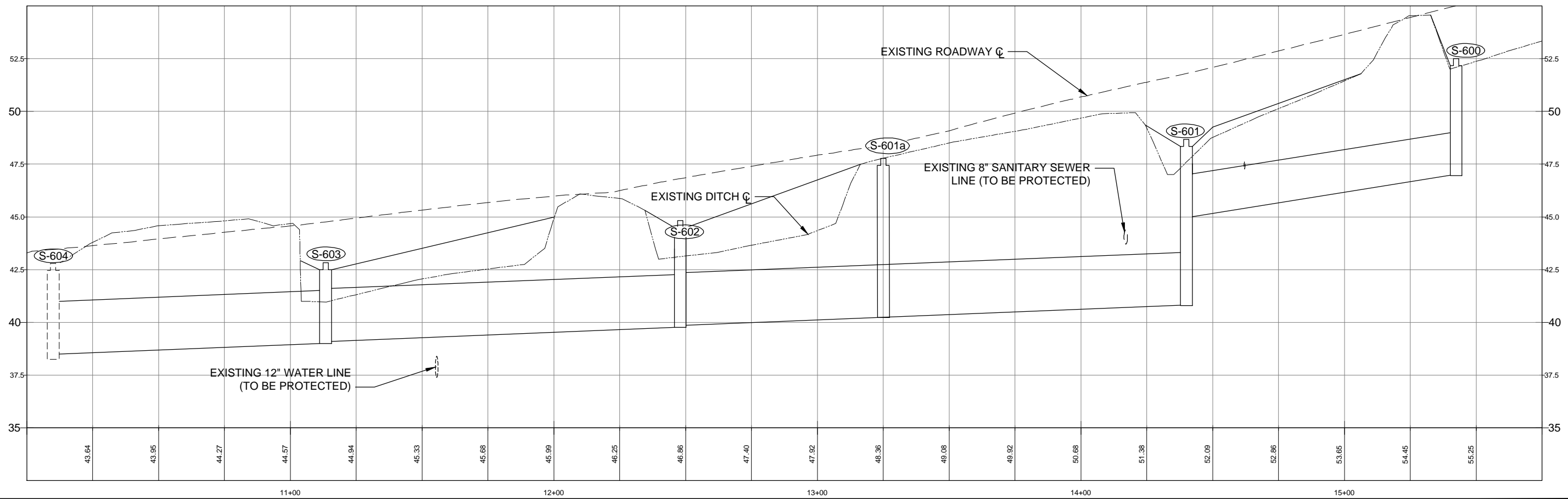
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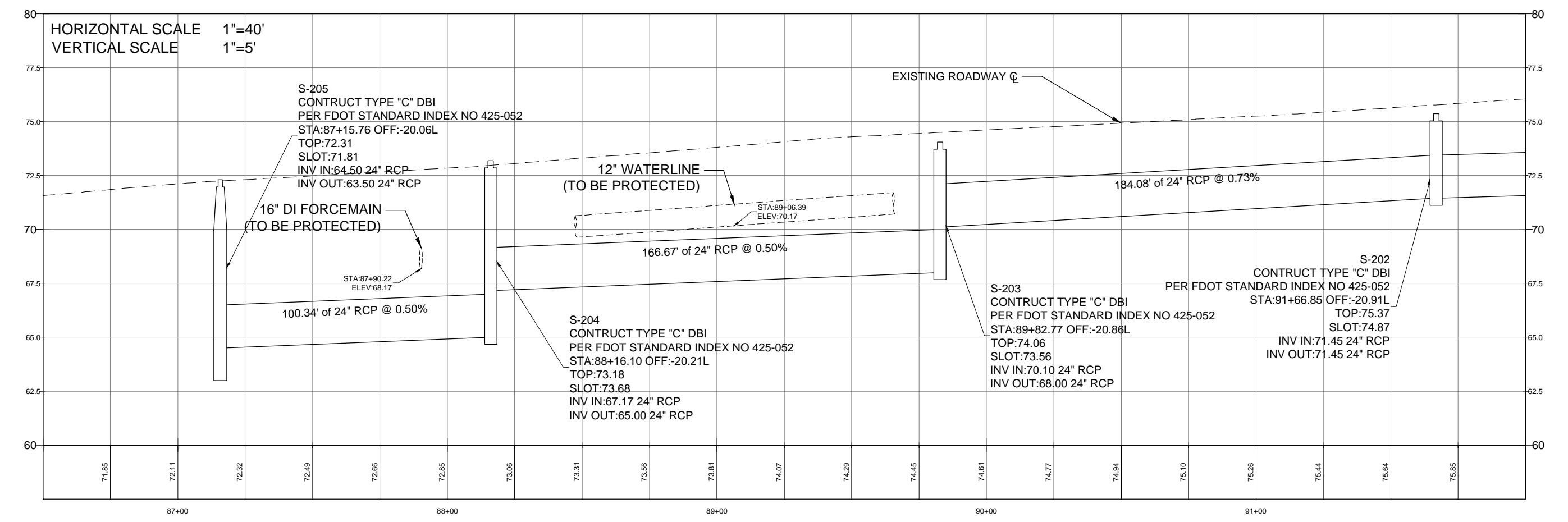
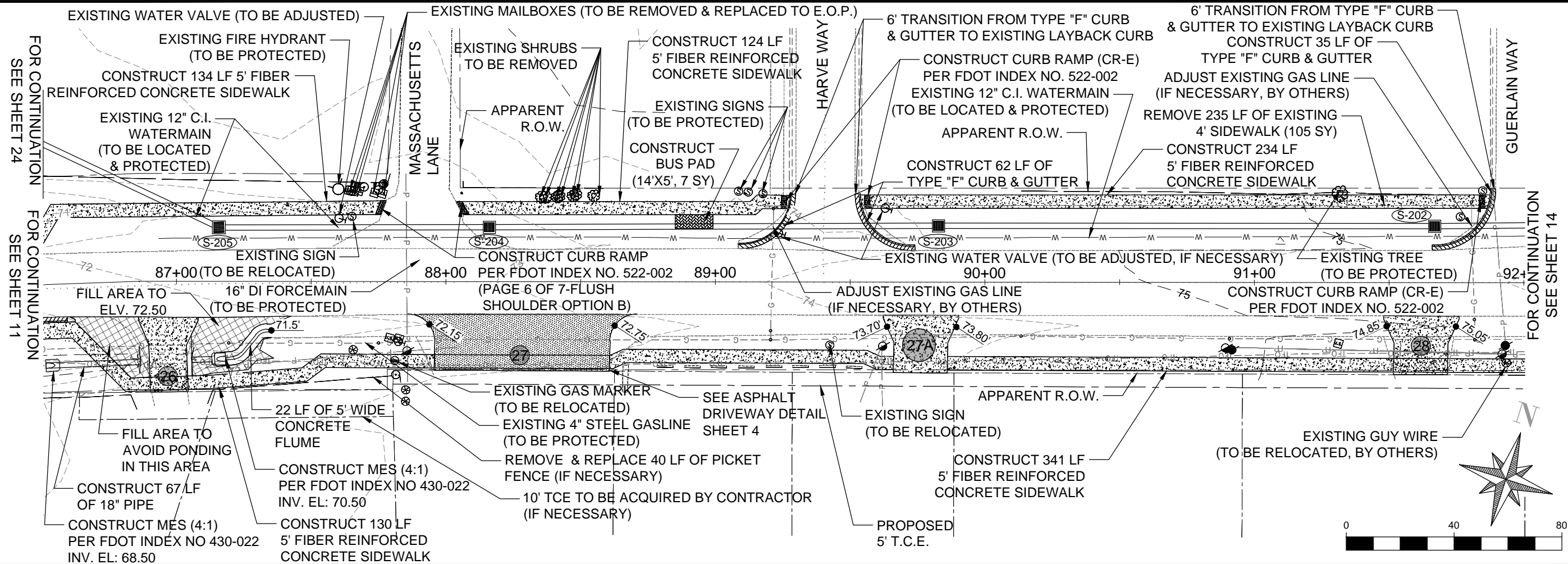
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 Sheet: 12



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**SIDEWALK & DRAINAGE**  
**IMPROVEMENTS**  
**PLAN/PROFILE SHEETS**

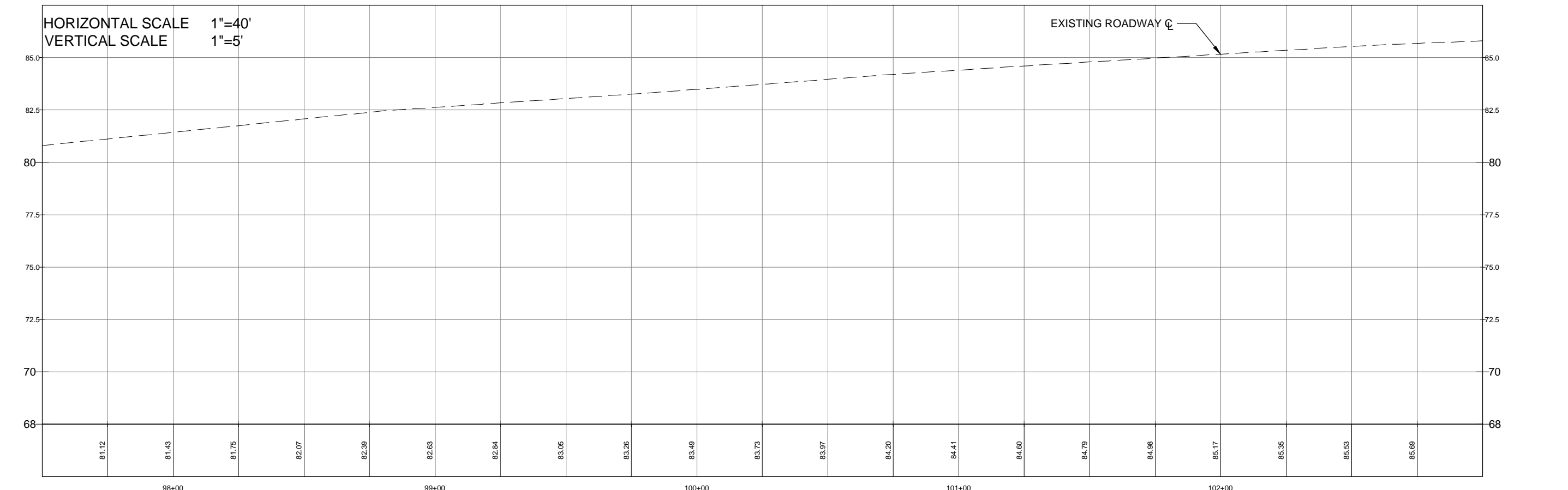
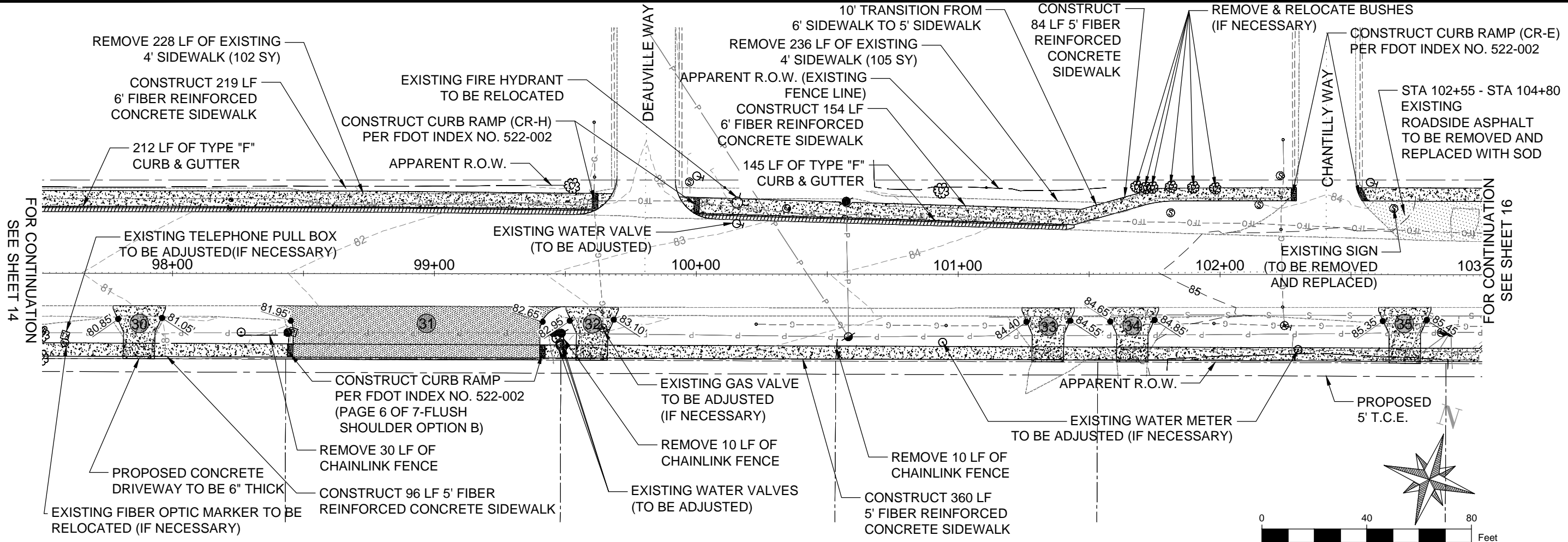
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 Sheet: **13**

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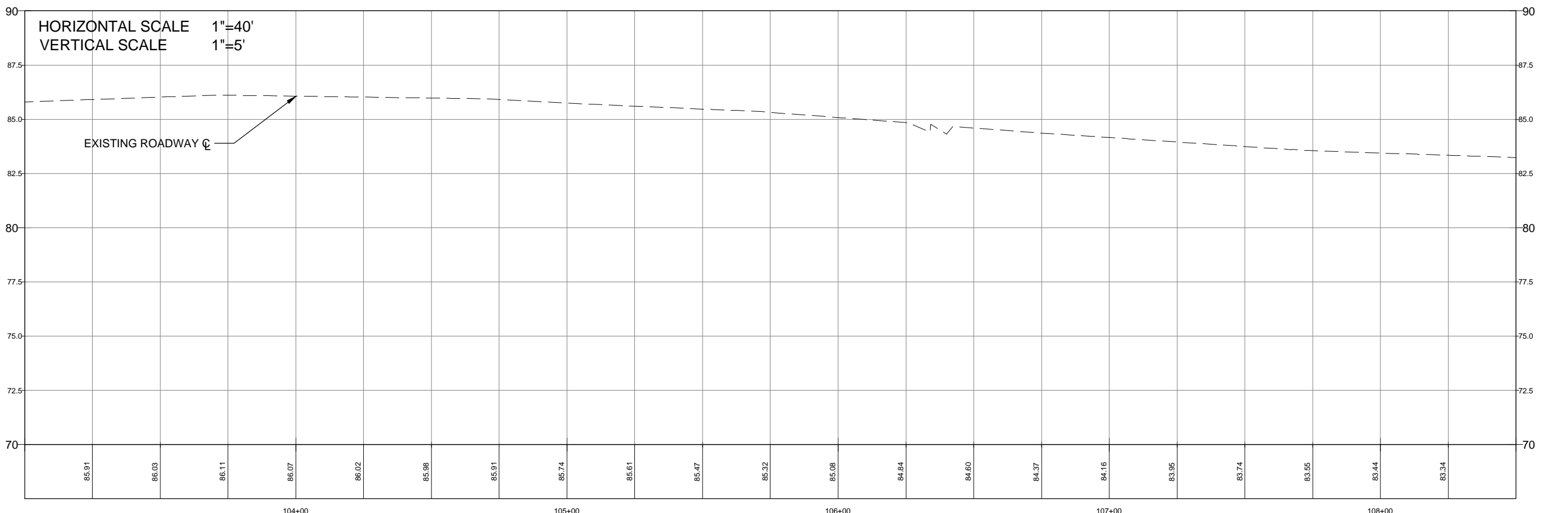
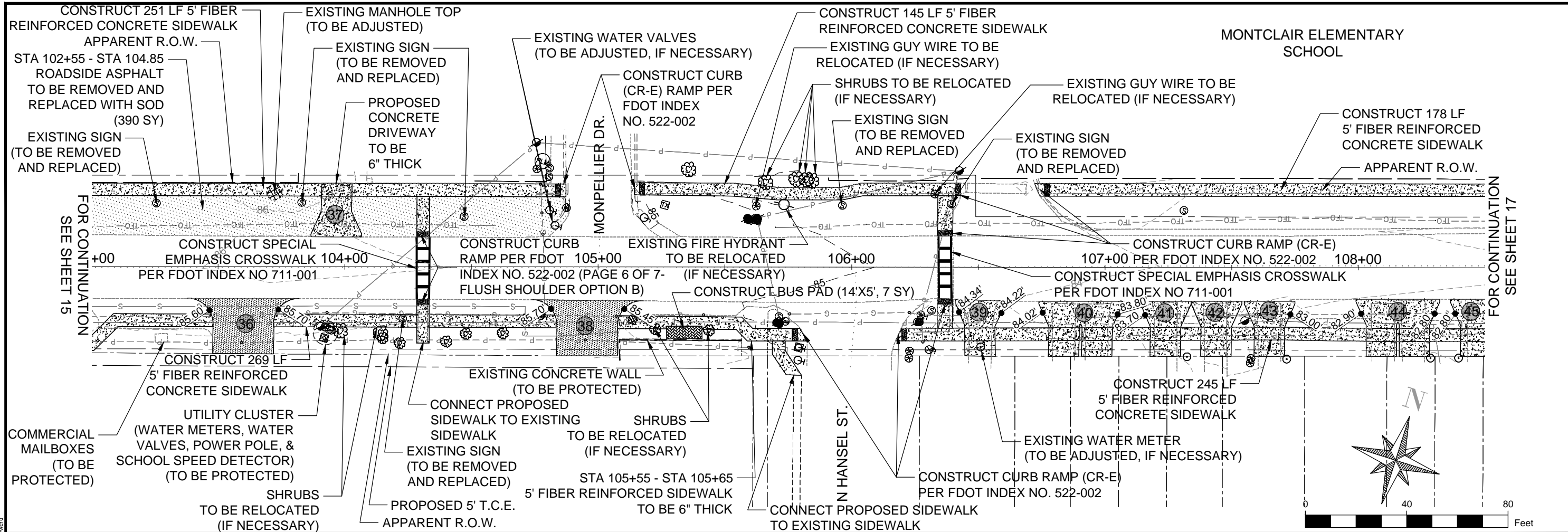
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**SIDEWALK & DRAINAGE**  
**IMPROVEMENTS**  
**PLAN/PROFILE SHEETS**

NO.	REVISION	DATE

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 Designed By: F.E.A.  
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 Sheet: **15**

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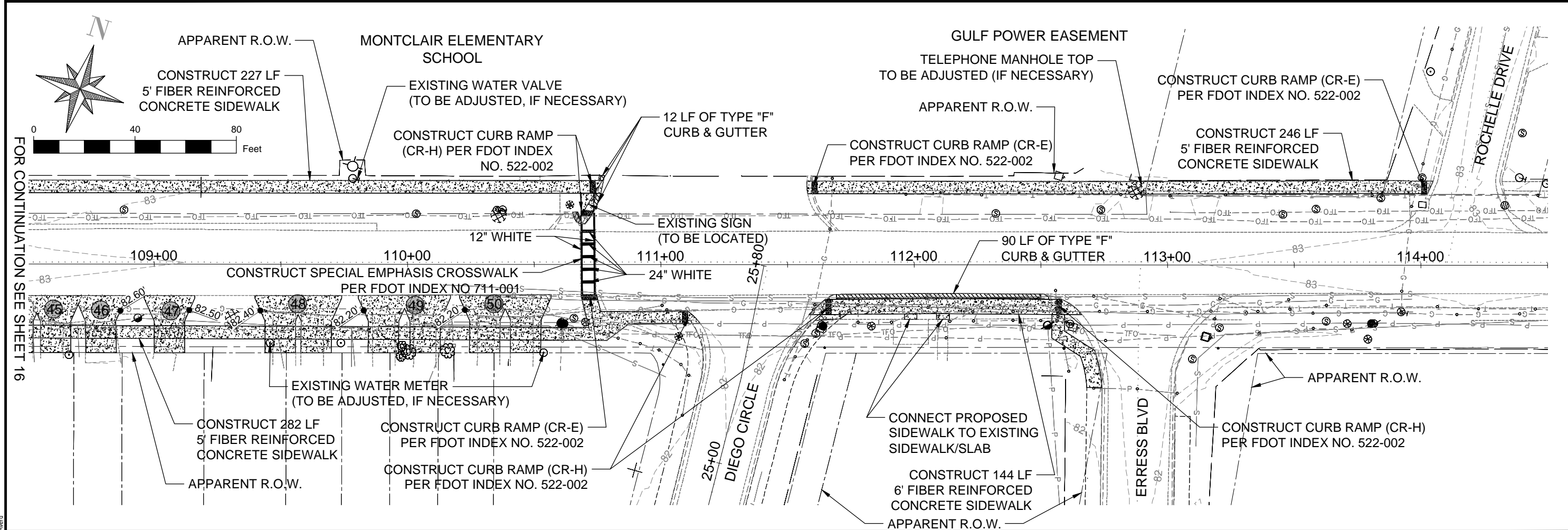
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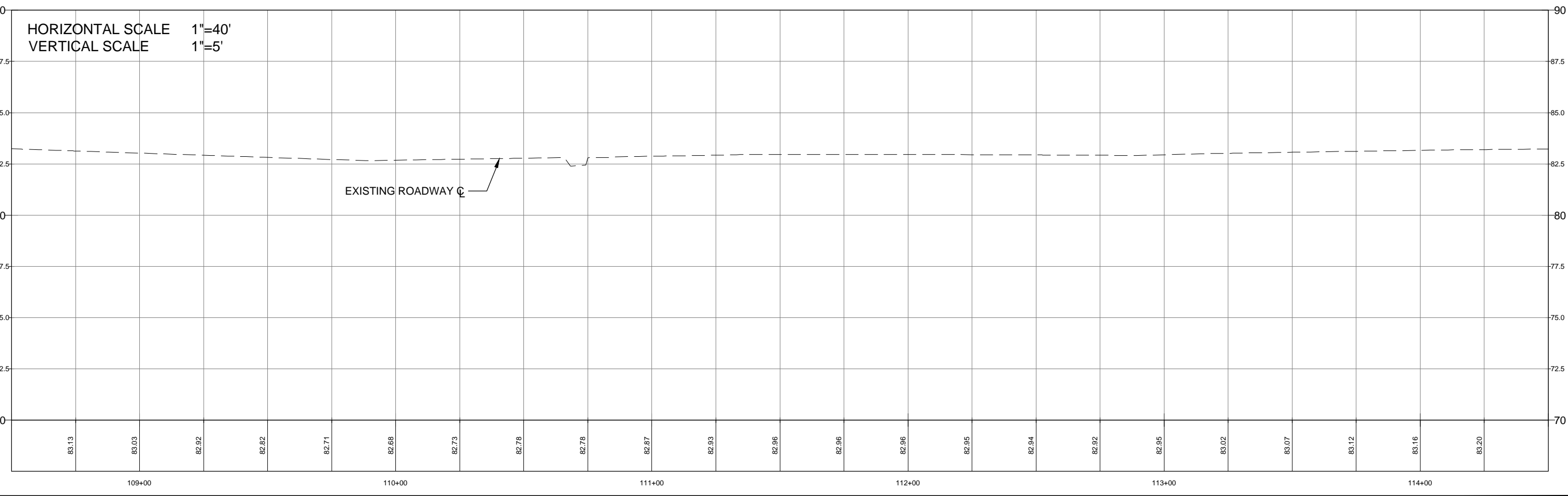
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 Sheet: 16





FOR CONTINUATION SEE SHEET 16

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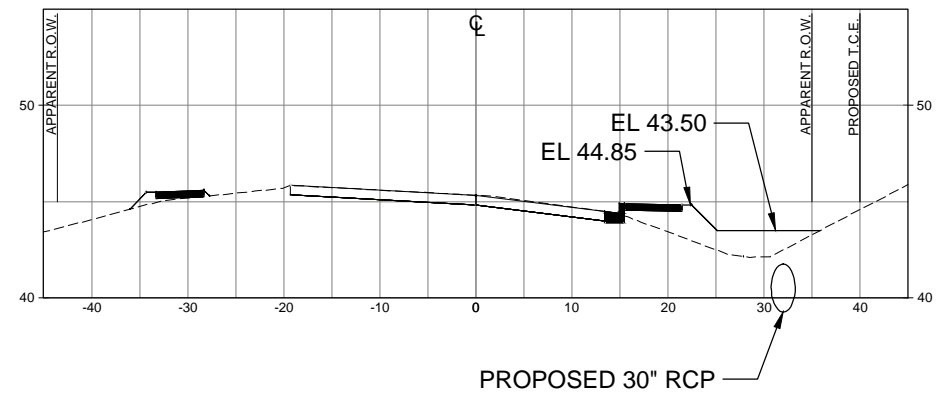
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 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 PLAN/PROFILE SHEETS**

NO.	REVISION	DATE

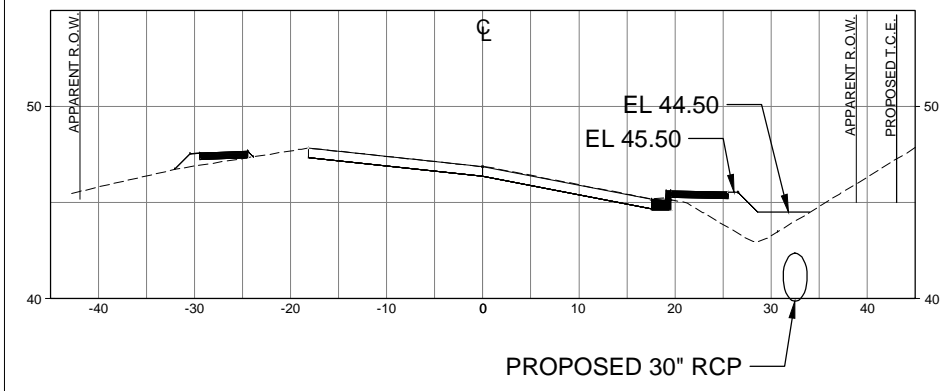
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Project Number: 180701  
 Date: JANUARY 2023  
 Drawn By: F.E.A.  
 Designed By: F.E.A.  
 Checked By: J.L.L.  
 Sheet: **17**

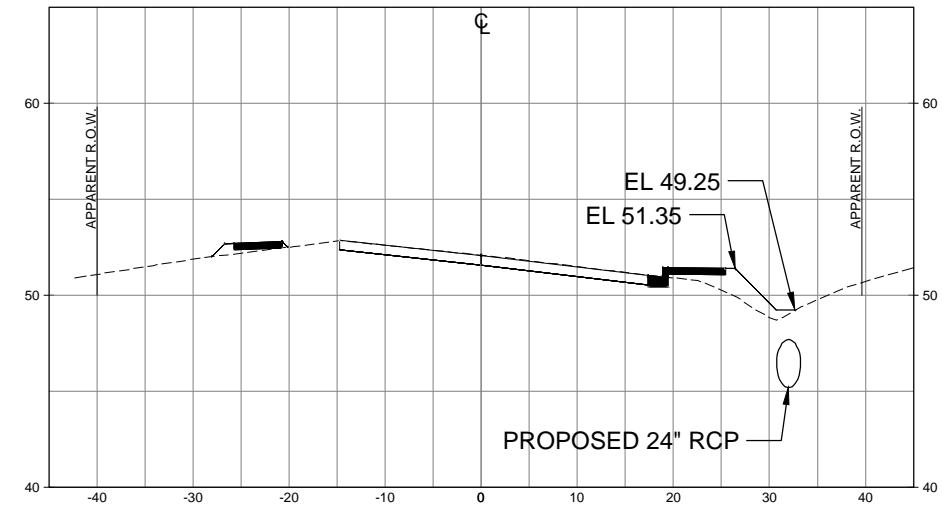
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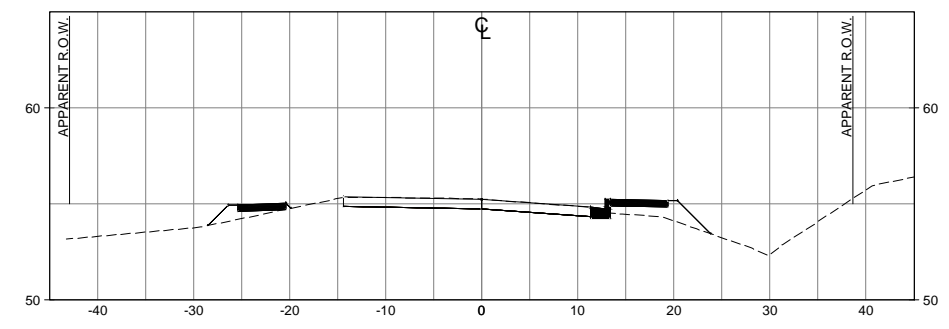
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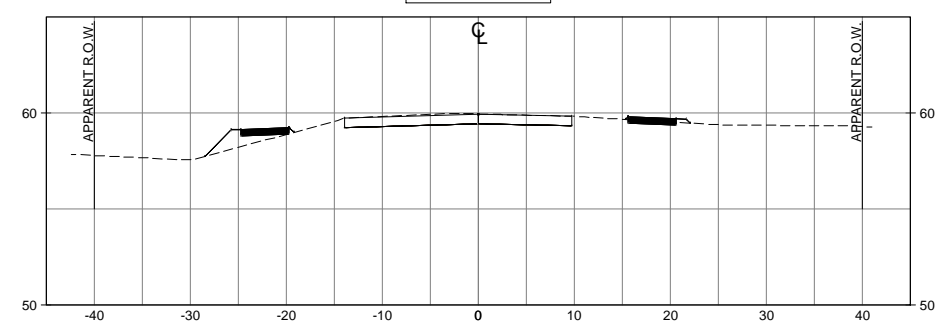
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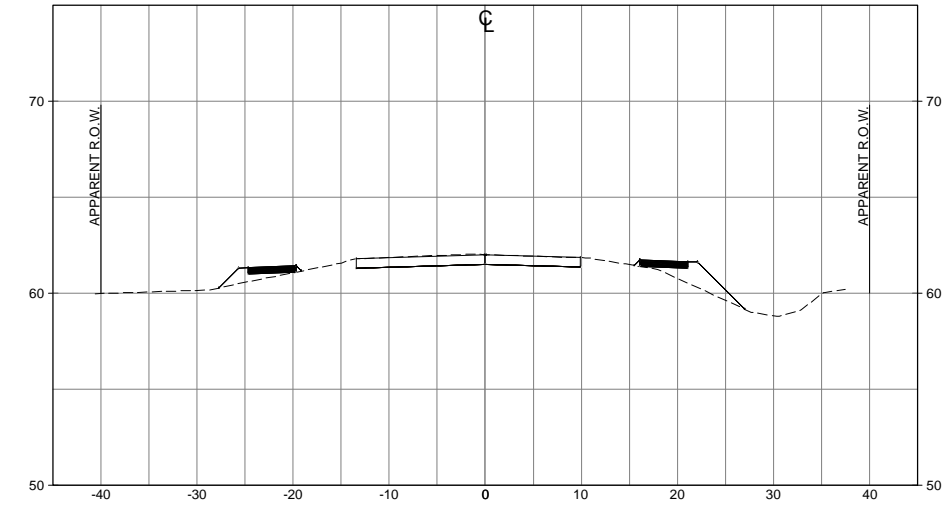
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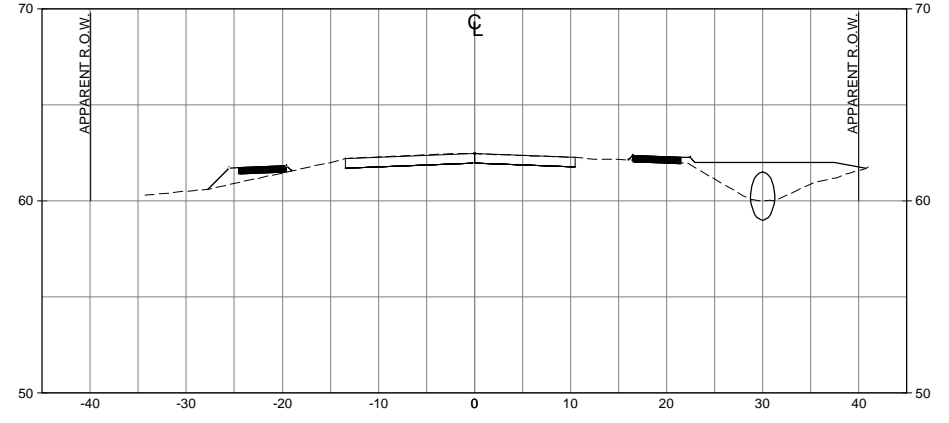
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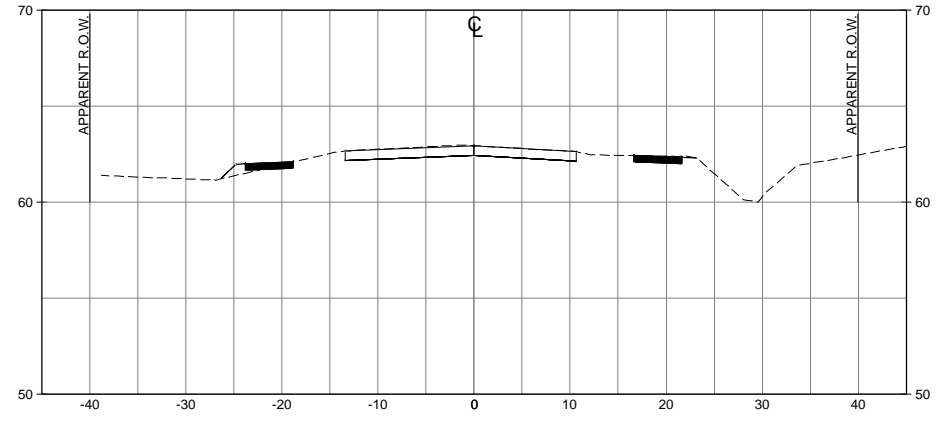
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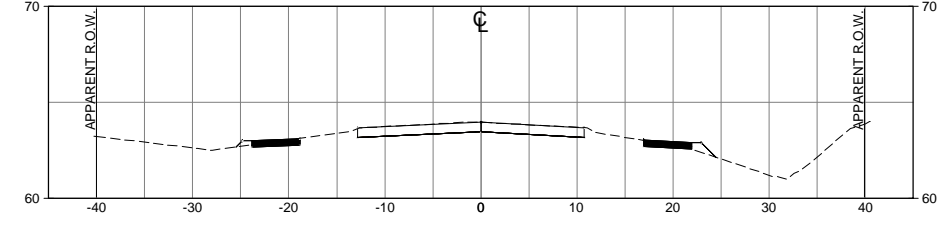
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HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=10'

**SIGMA**  
 CONSULTING  
 GROUP, INC.  
 3298 SUMMIT BOULEVARD, SUITE 32  
 PENSACOLA, FLORIDA 32503  
 PHONE: (850) 332-7912  
 CERTIFICATE OF AUTHORIZATION #26889

BOARD OF COUNTY COMMISSIONERS  
 ESCAMBIA COUNTY, FLORIDA  
 ENGINEERING DEPARTMENT

MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 CROSS-SECTION SHEETS

NO.	REVISION	DATE

RELEASED FOR BID

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 180701

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 JANUARY 2023

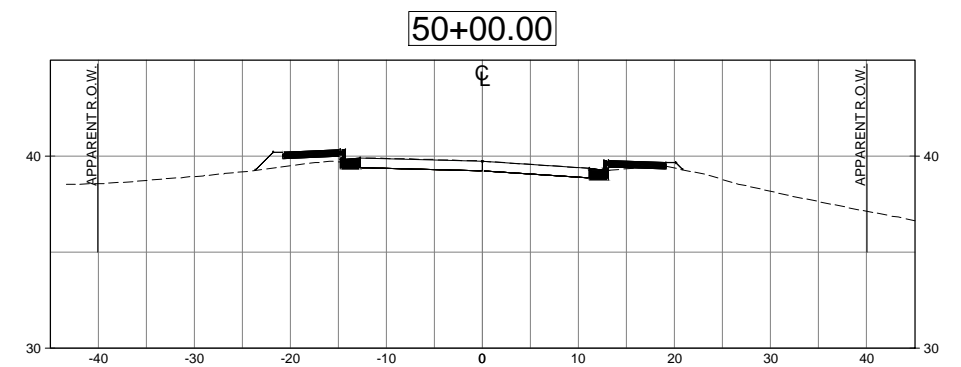
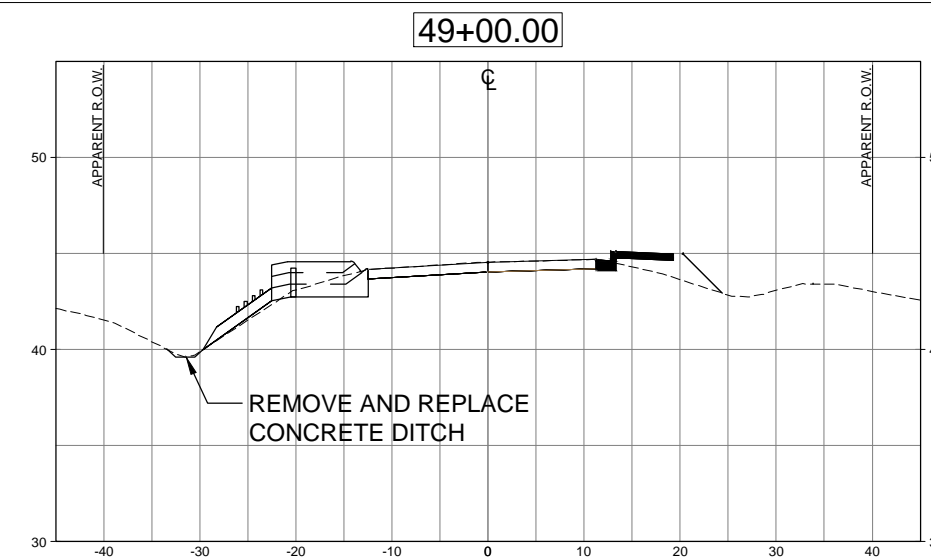
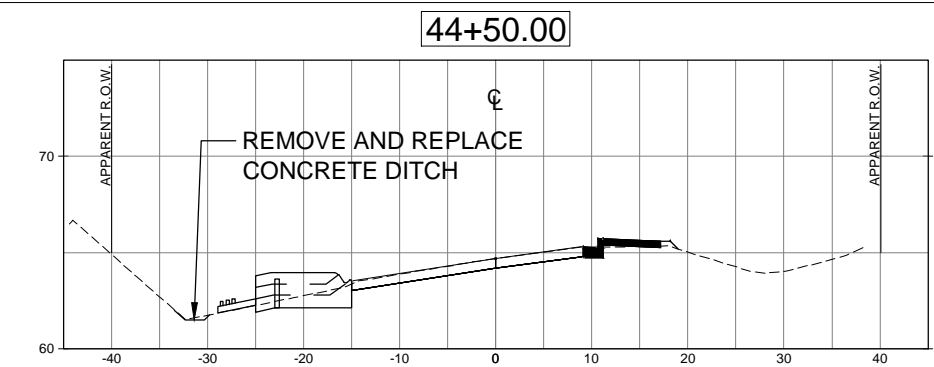
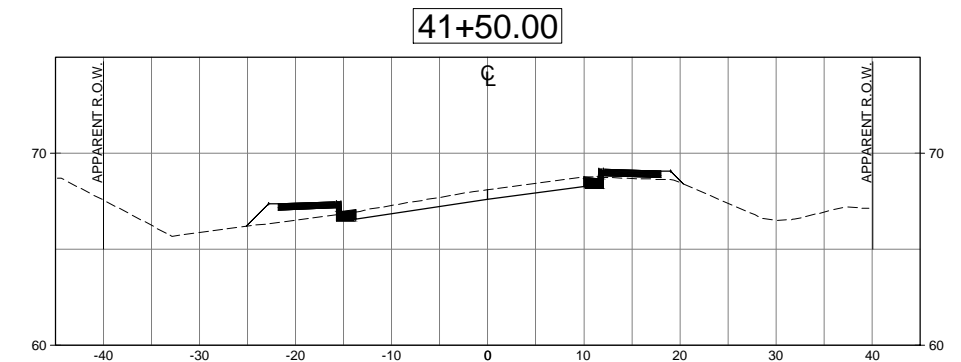
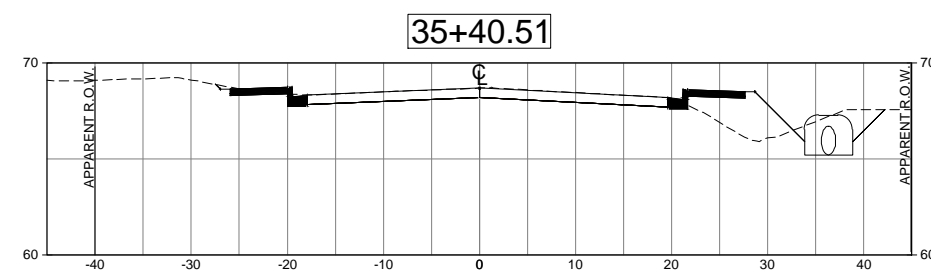
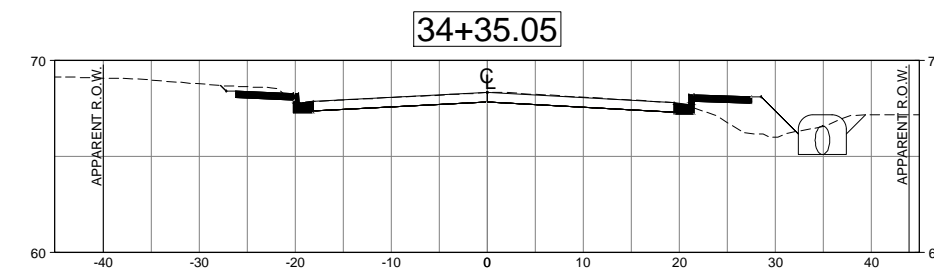
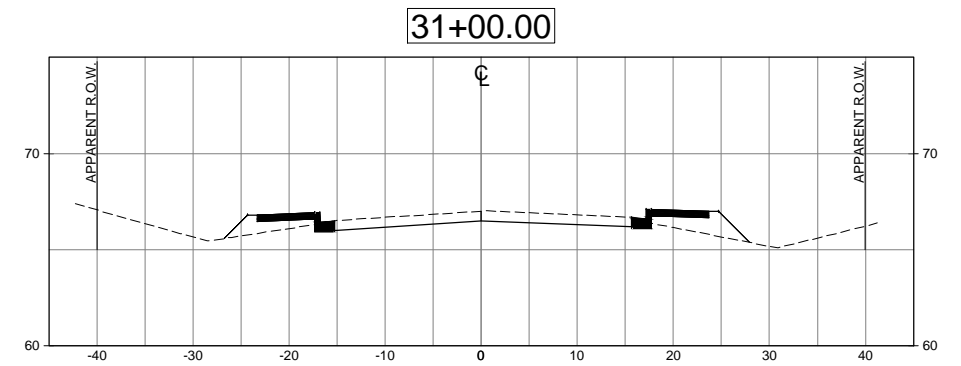
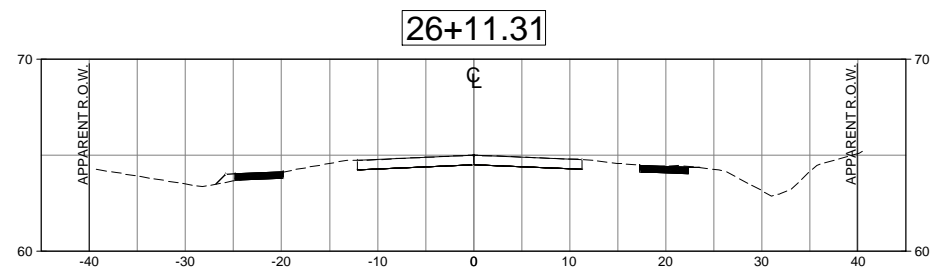
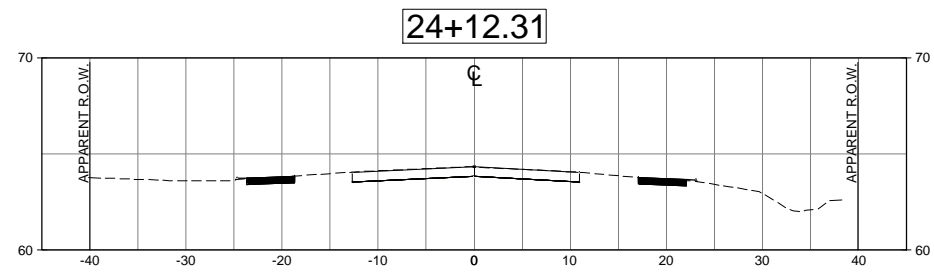
Drawn By:  
 F.E.A.

Designed By:  
 F.E.A.

Checked By:  
 J.L.L.

Sheet:  
 18

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HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=10'

**SIGMA**  
CONSULTING  
GROUP, INC.  
3298 SUNNIT BOULEVARD, SUITE 32  
PENSACOLA, FLORIDA 32503  
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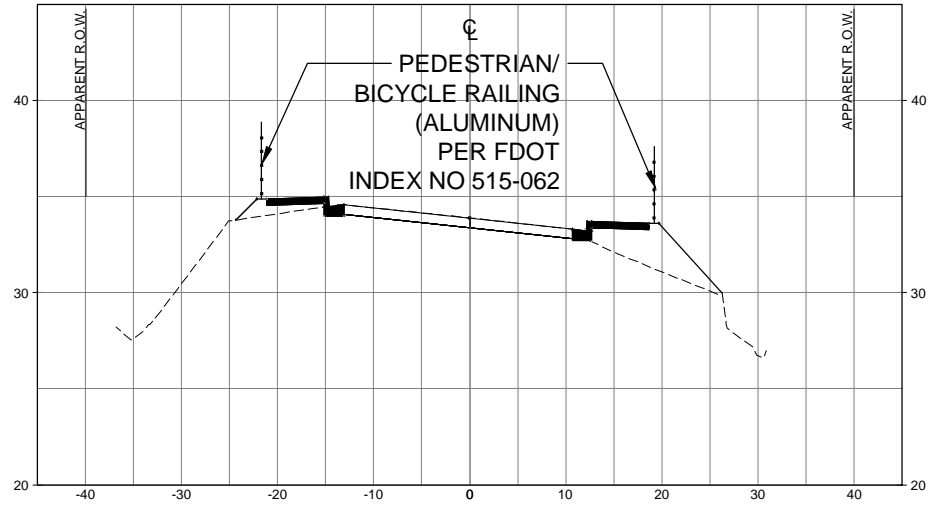
MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
IMPROVEMENTS  
CROSS-SECTION SHEETS

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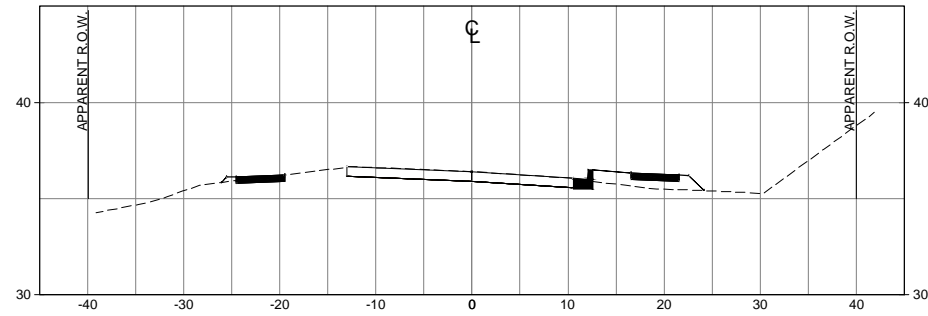
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Project Number: 180701  
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Designed By: F.E.A.  
Checked By: J.L.L.  
Sheet: 19

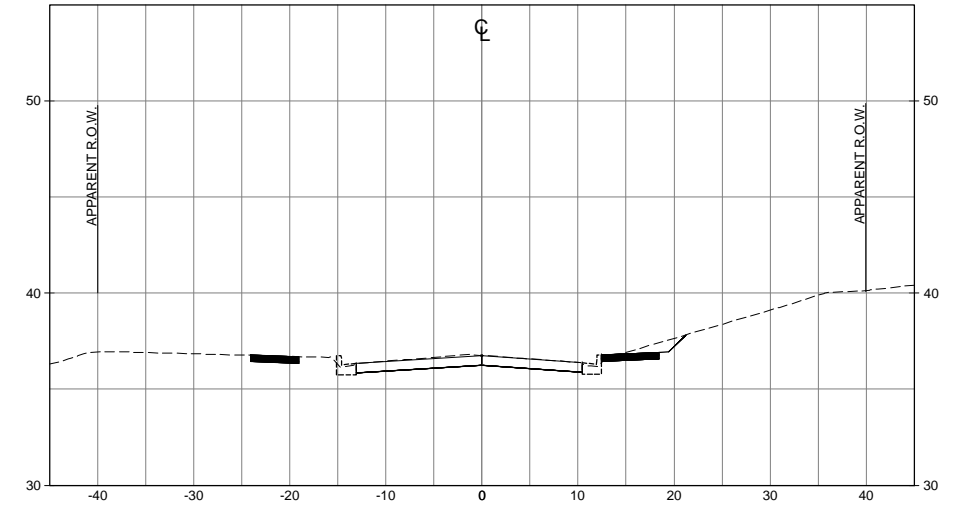
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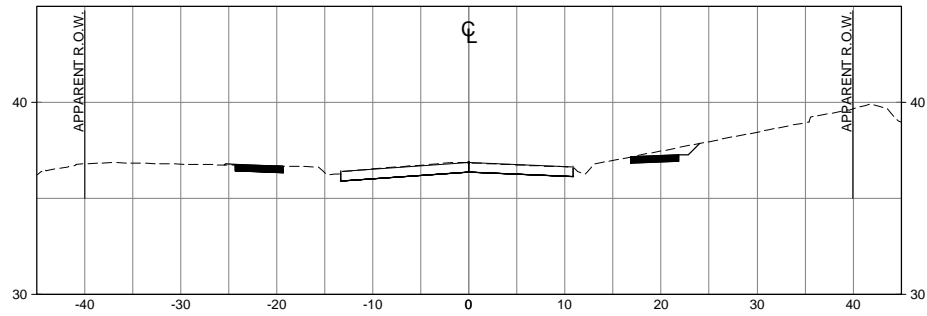
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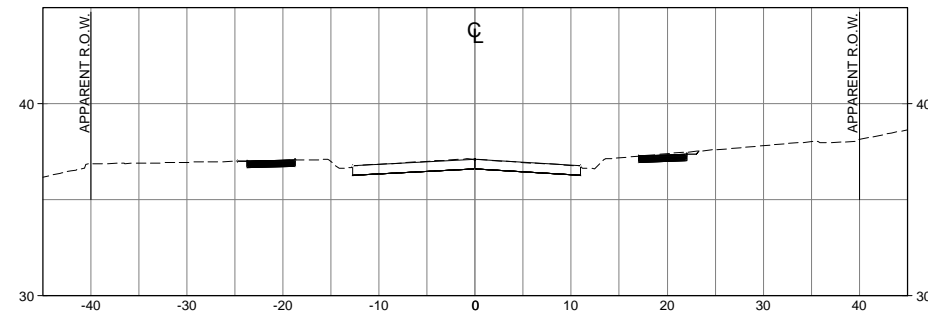
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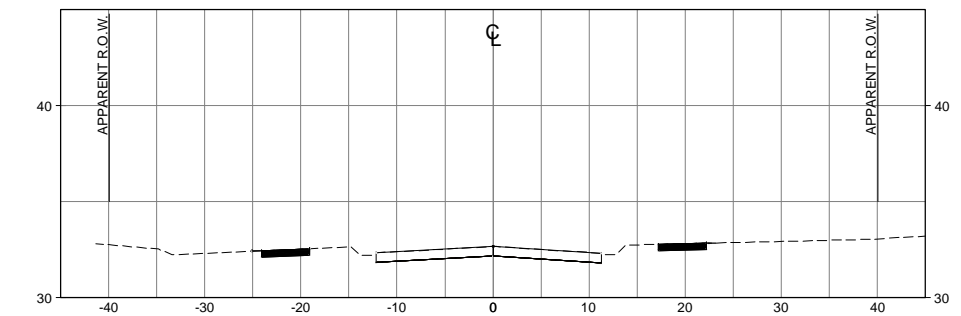
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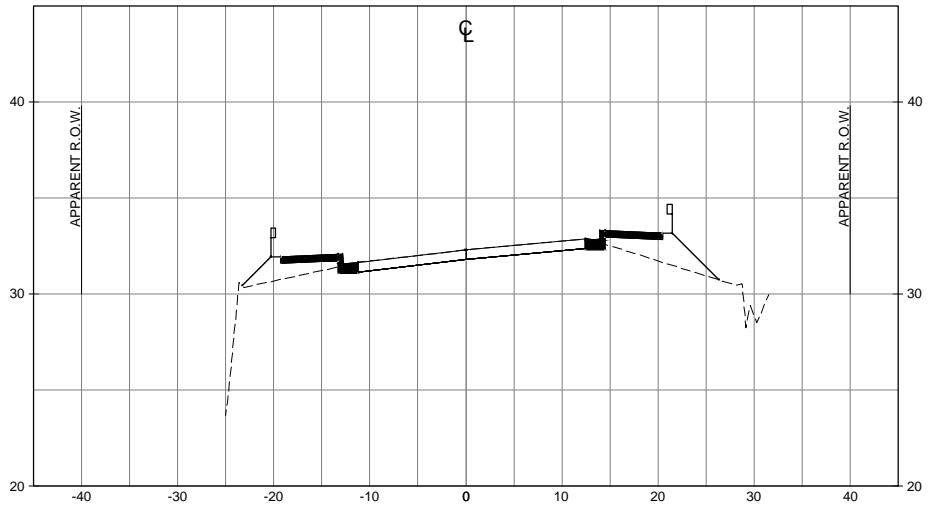
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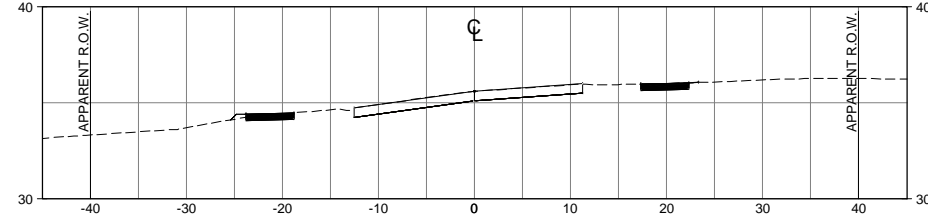
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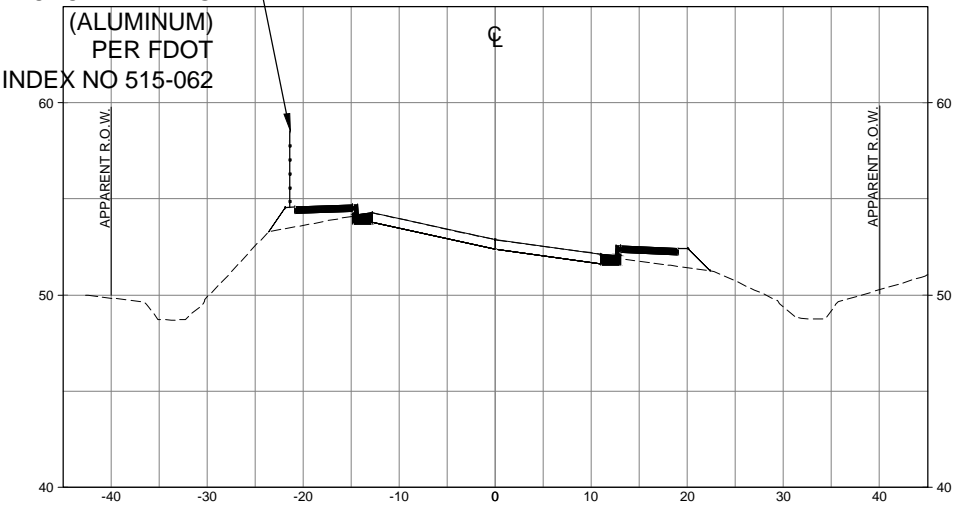


77+88.23



PEDESTRIAN/  
BICYCLE RAILING  
(ALUMINUM)  
PER FDOT  
INDEX NO 515-062

81+50.00



HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=10'



BOARD OF COUNTY COMMISSIONERS  
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ENGINEERING DEPARTMENT



MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
IMPROVEMENTS  
CROSS-SECTION SHEETS

NO.	REVISION	DATE

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JANUARY 2023

Drawn By:  
F.E.A.

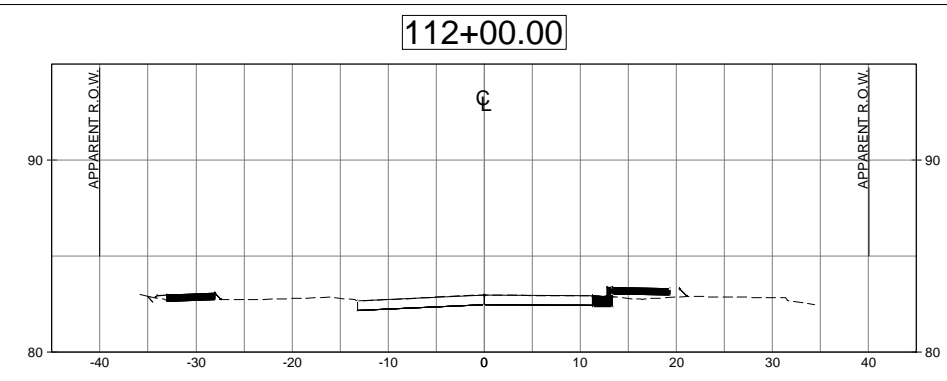
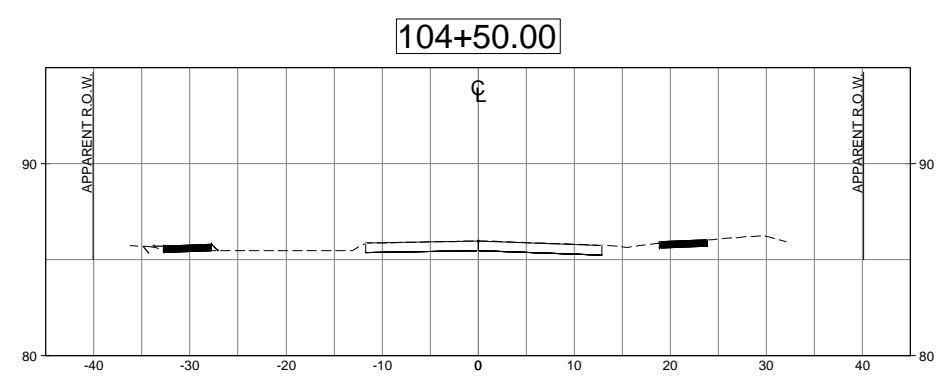
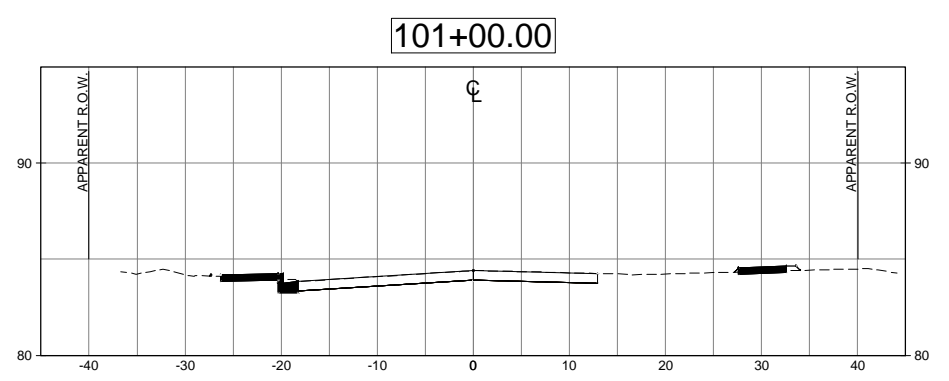
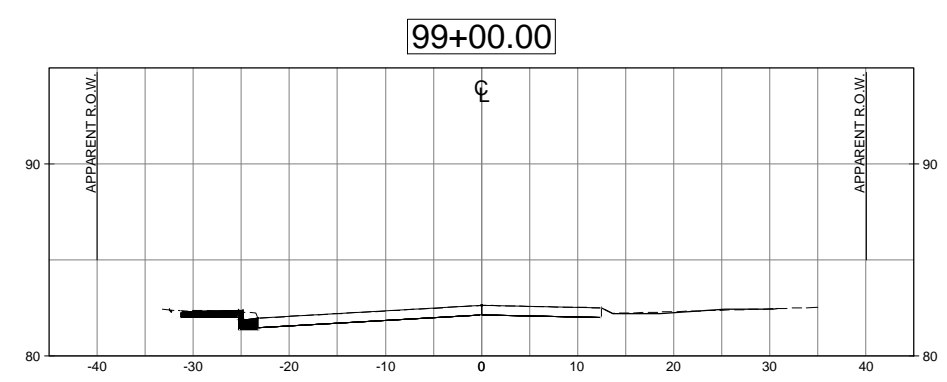
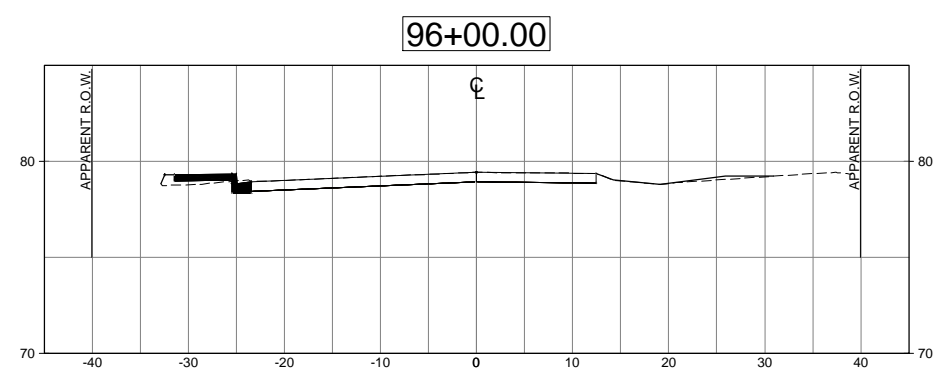
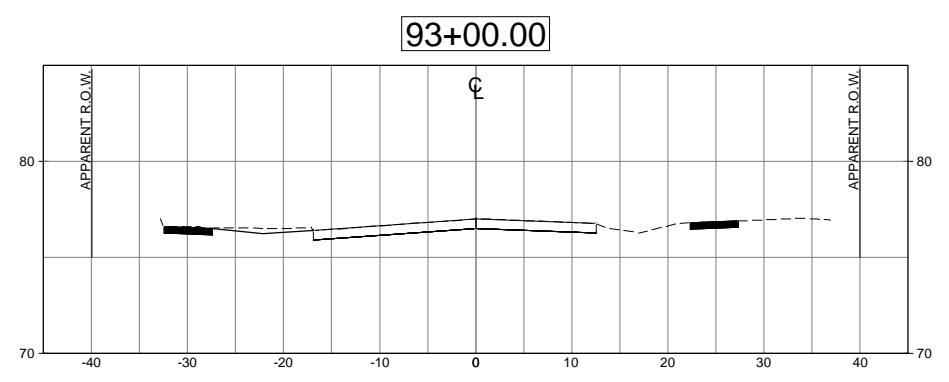
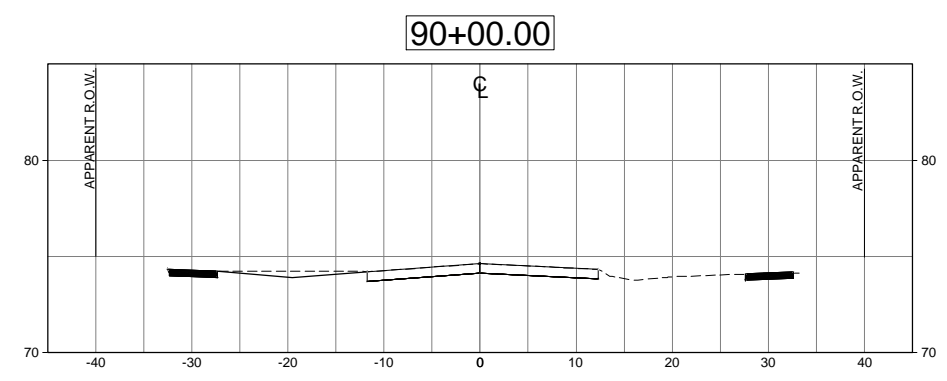
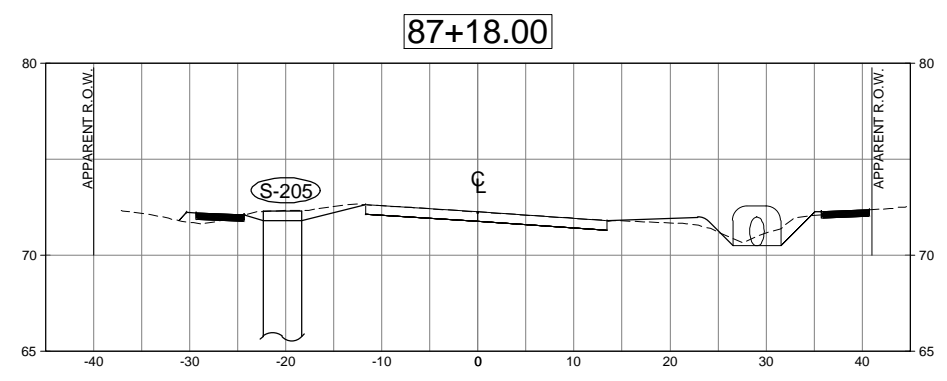
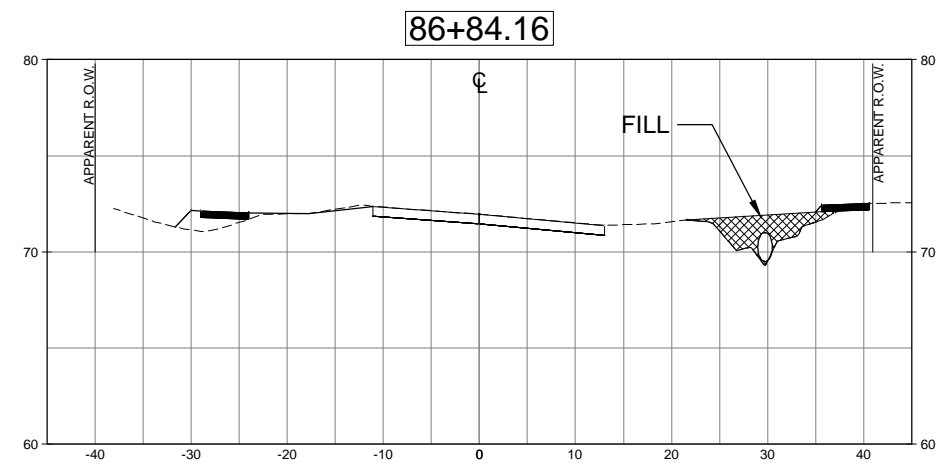
Designed By:  
F.E.A.

Checked By:  
J.L.L.

Sheet:  
20

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HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=10'

**SIGMA CONSULTING GROUP, INC.**  
 3298 SUNMIT BOULEVARD, SUITE 32  
 PENSACOLA, FLORIDA 32503  
 PHONE: (850) 332-7912  
 CERTIFICATE OF AUTHORIZATION #26889

BOARD OF COUNTY COMMISSIONERS  
 ESCAMBIA COUNTY, FLORIDA  
 ENGINEERING DEPARTMENT

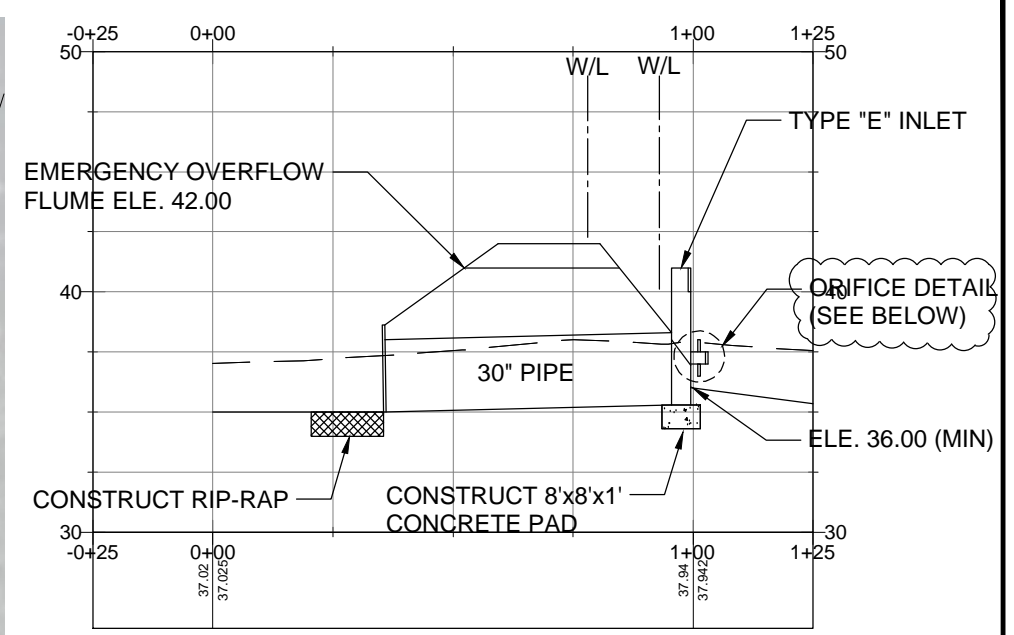
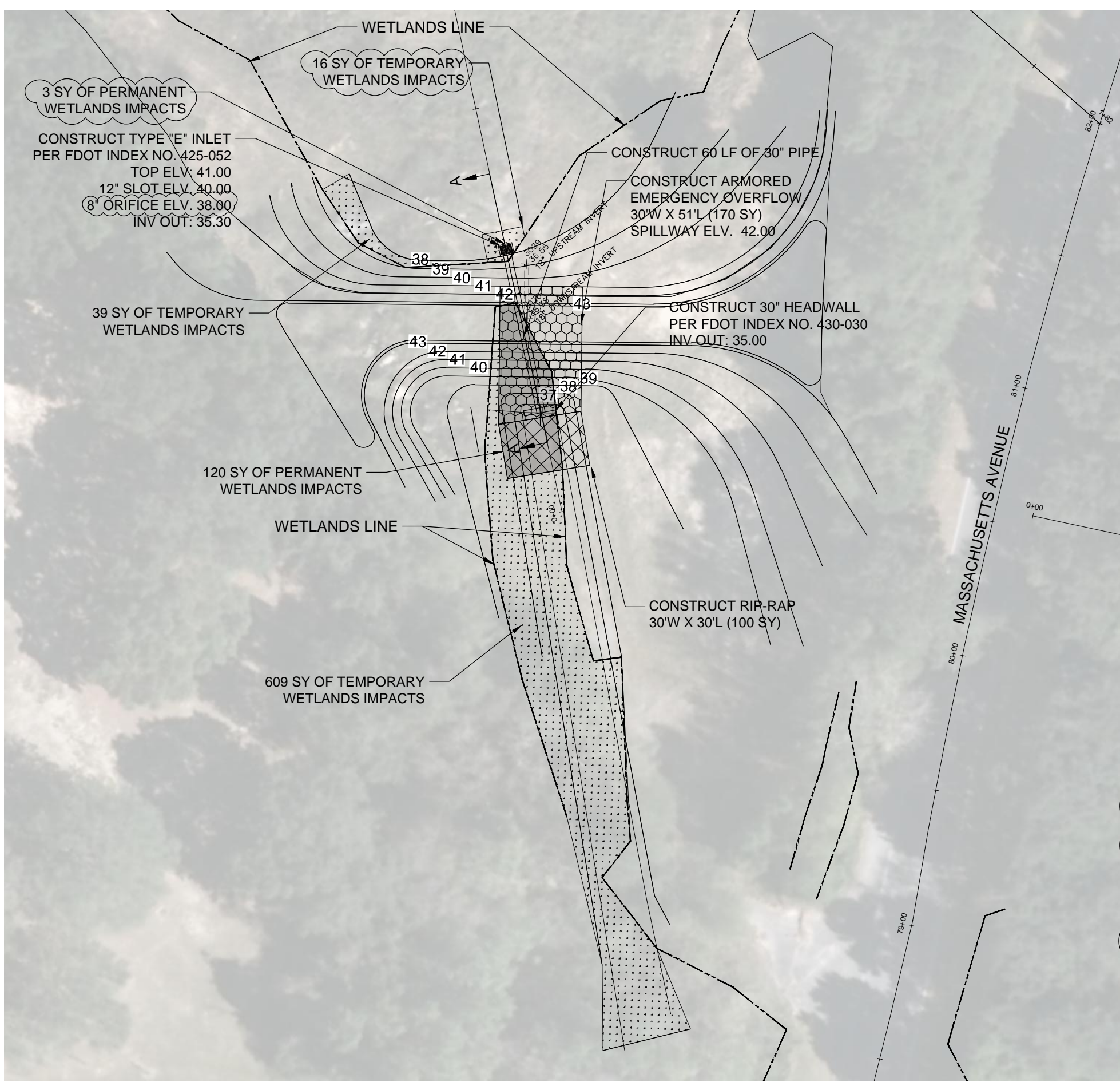
MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 CROSS-SECTION SHEETS

NO.	REVISION	DATE

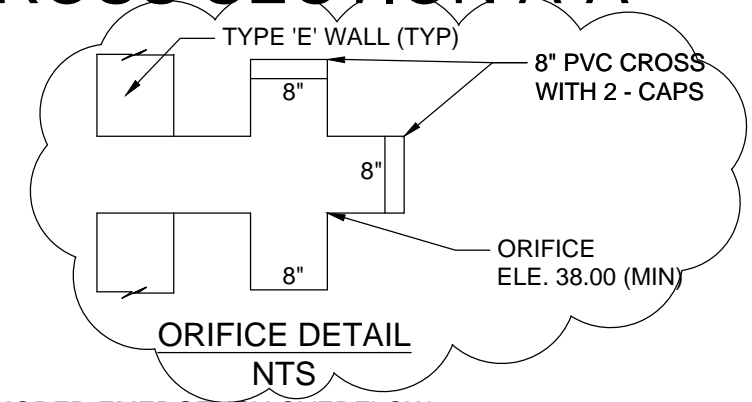
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Project Number: 180701  
 Date: JANUARY 2023  
 Drawn By: F.E.A.  
 Designed By: F.E.A.  
 Checked By: J.L.L.  
 Sheet: 21

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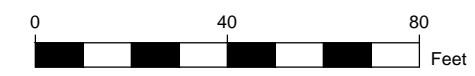
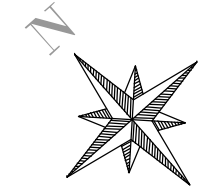
### CROSS SECTION A-A



- LEGEND:**
- ARMORED EMERGENCY OVERFLOW
  - RIP - RAP
  - PERMANENT WETLANDS IMPACTS
  - TEMPORARY WETLANDS IMPACTS

**NORTH POND WETLANDS IMPACTS:**

- TOTAL TEMPORARY IMPACTS = 664 SY / 0.137 ACRES
- TOTAL PERMANENT IMPACTS = 123 SY / 0.025 ACRES
- TOTAL WETLANDS (PROJECT AREA) = 0.16 ACRES
- TOTAL SURFACE WATER AREA = 4.91 ACRES



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BOARD OF COUNTY COMMISSIONERS  
 ESCAMBIA COUNTY, FLORIDA  
 ENGINEERING DEPARTMENT

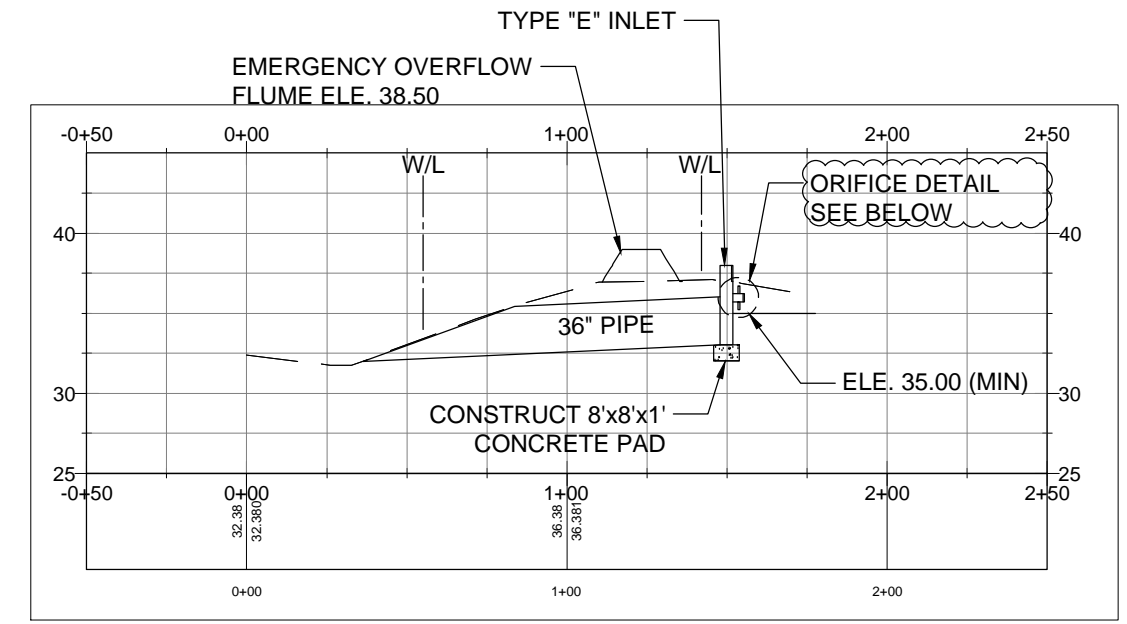
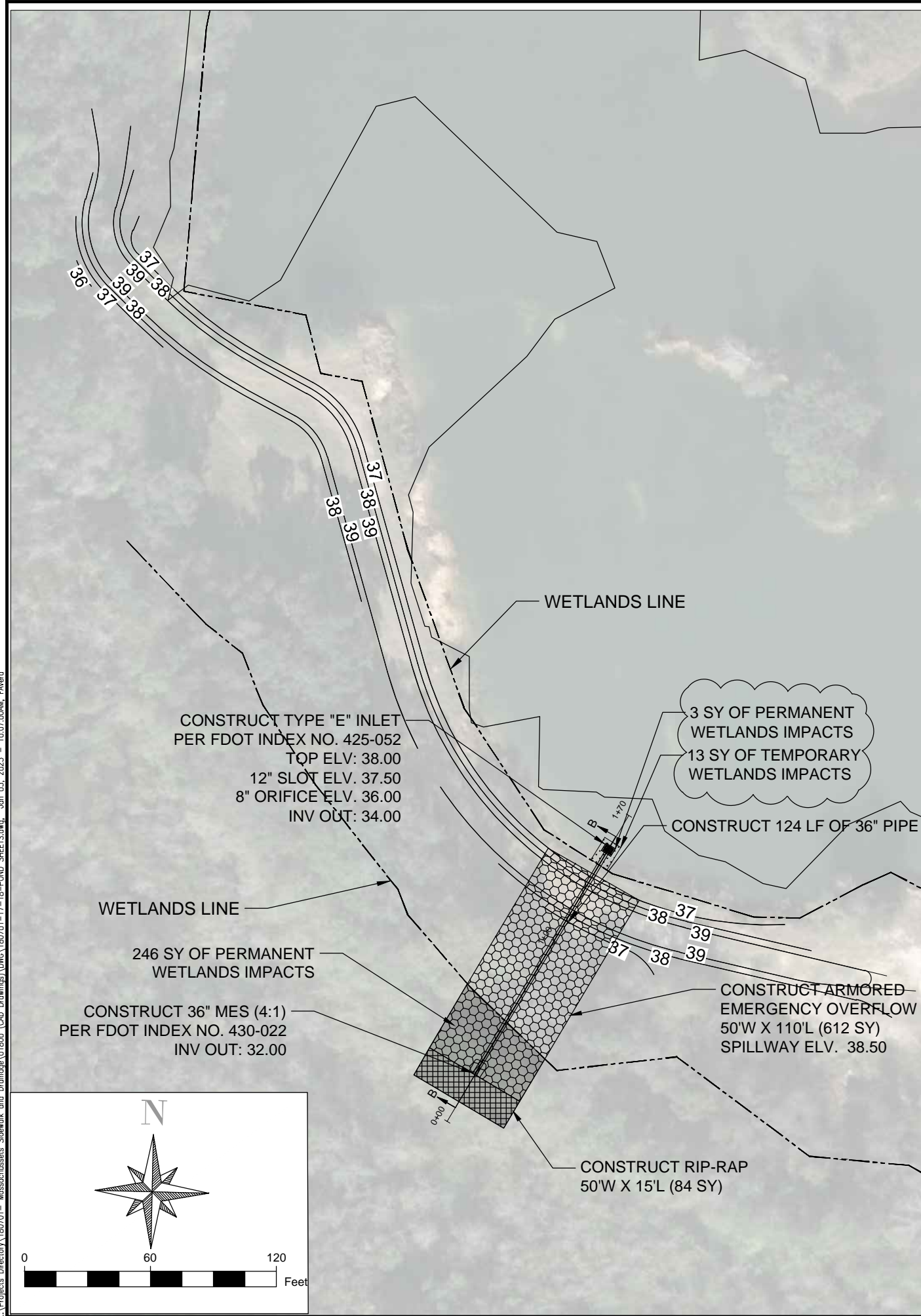
MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 NORTH POND

NO.	REVISION	DATE

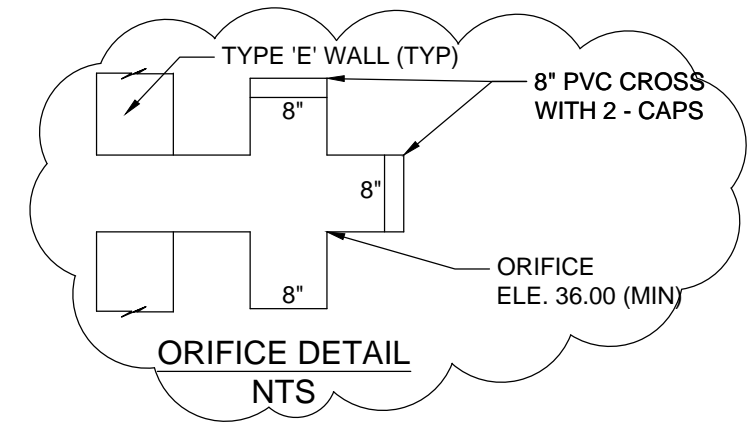
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Project Number: 180701  
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 Drawn By: F.E.A.  
 Designed By: F.E.A.  
 Checked By: J.L.L.  
 Sheet: **22**

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**CROSS SECTION B-B**



**LEGEND:**

- ARMORED EMERGENCY OVERFLOW
- RIP - RAP
- PERMANENT WETLANDS IMPACTS
- TEMPORARY WETLANDS IMPACTS

**WETLANDS IMPACTS:**

TOTAL TEMPORARY IMPACTS = 13 SY / 0.0026 ACRES

TOTAL PERMANENT IMPACTS = 249 SY / 0.051 ACRES

TOTAL WETLANDS (PROJECT AREA) = .0536 ACRES

TOTAL SURFACE WATER AREA = 8.70 ACRES

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PENSACOLA, FLORIDA 32503  
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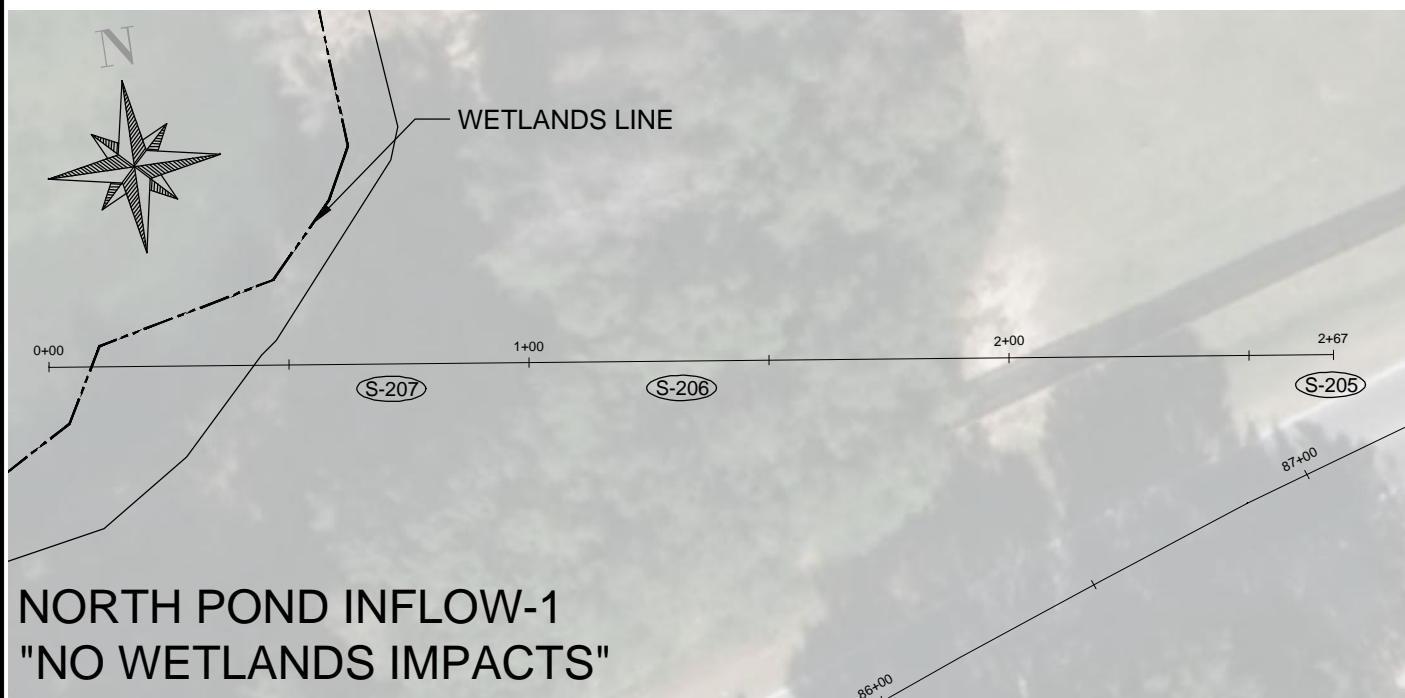
BOARD OF COUNTY COMMISSIONERS  
ESCAMBIA COUNTY, FLORIDA  
ENGINEERING DEPARTMENT

MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
IMPROVEMENTS  
SOUTH POND

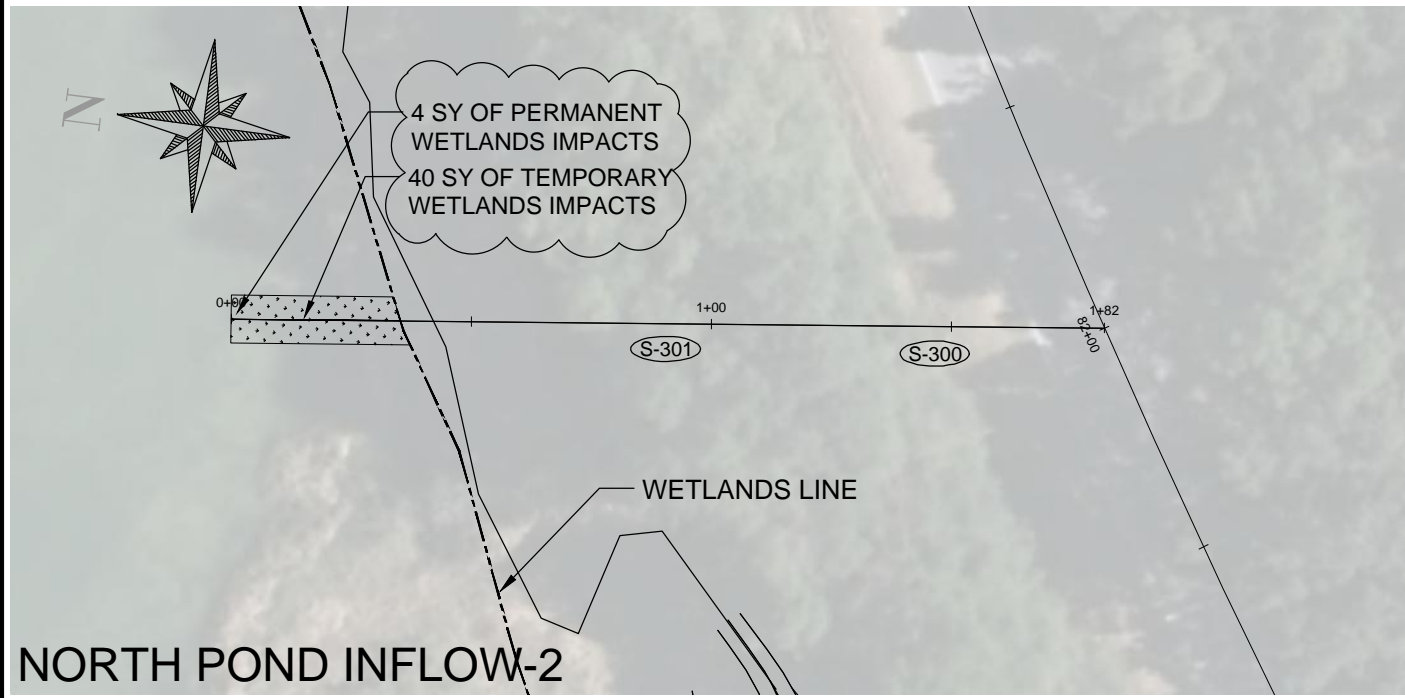
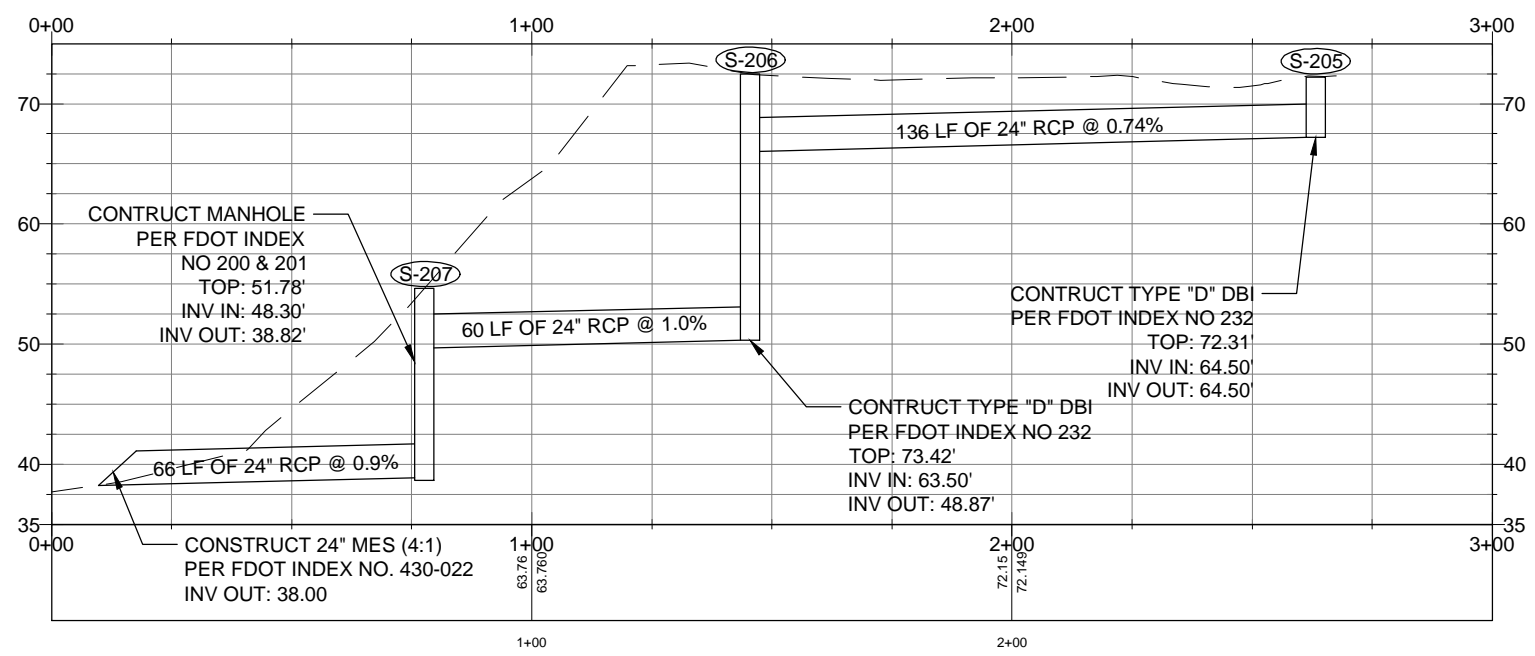
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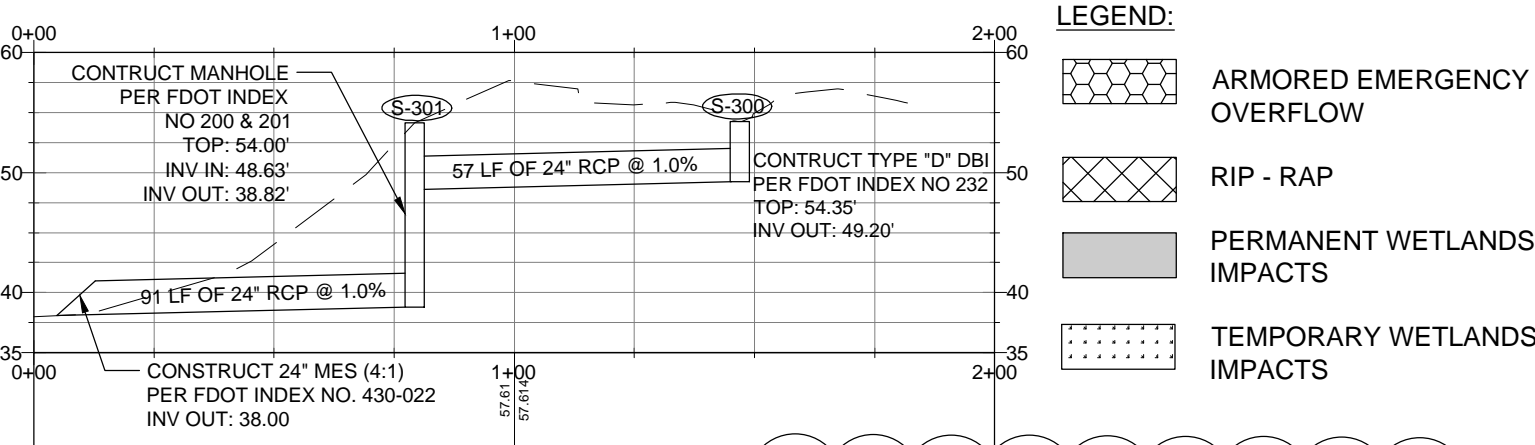
Project Number: 180701  
Date: JANUARY 2023  
Drawn By: F.E.A.  
Designed By: F.E.A.  
Checked By: J.L.L.  
Sheet: 23



**NORTH POND INFLOW-1**  
"NO WETLANDS IMPACTS"



**NORTH POND INFLOW-2**



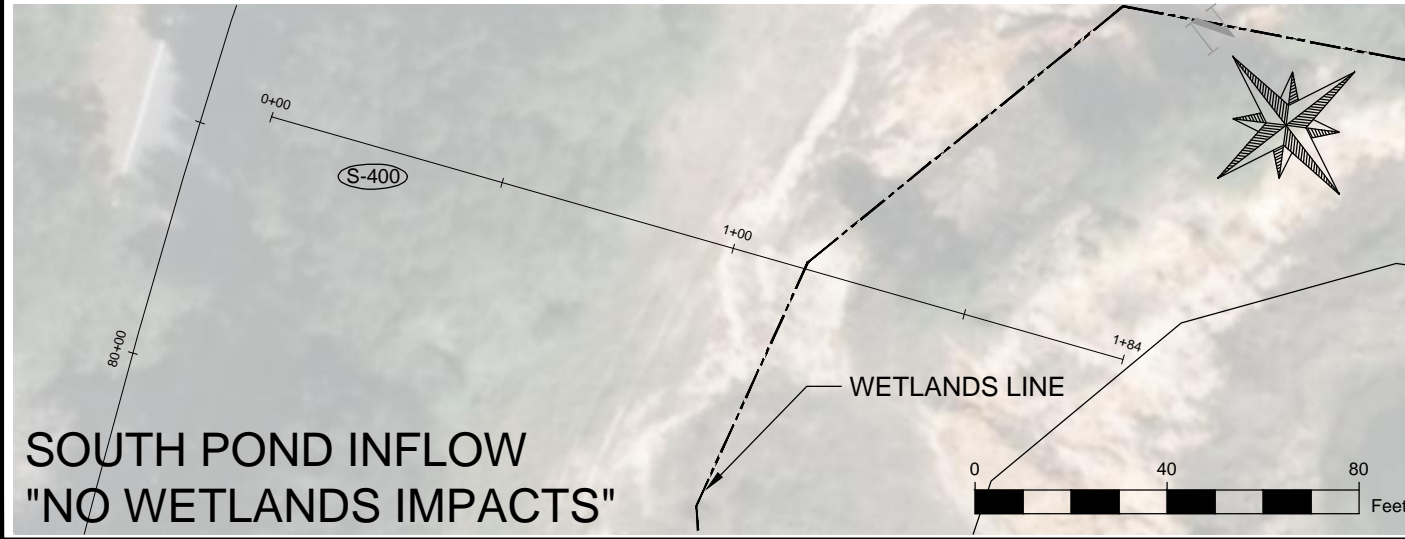
- LEGEND:**
- ARMORED EMERGENCY OVERFLOW
  - RIP - RAP
  - PERMANENT WETLANDS IMPACTS
  - TEMPORARY WETLANDS IMPACTS

**WETLANDS IMPACTS:**

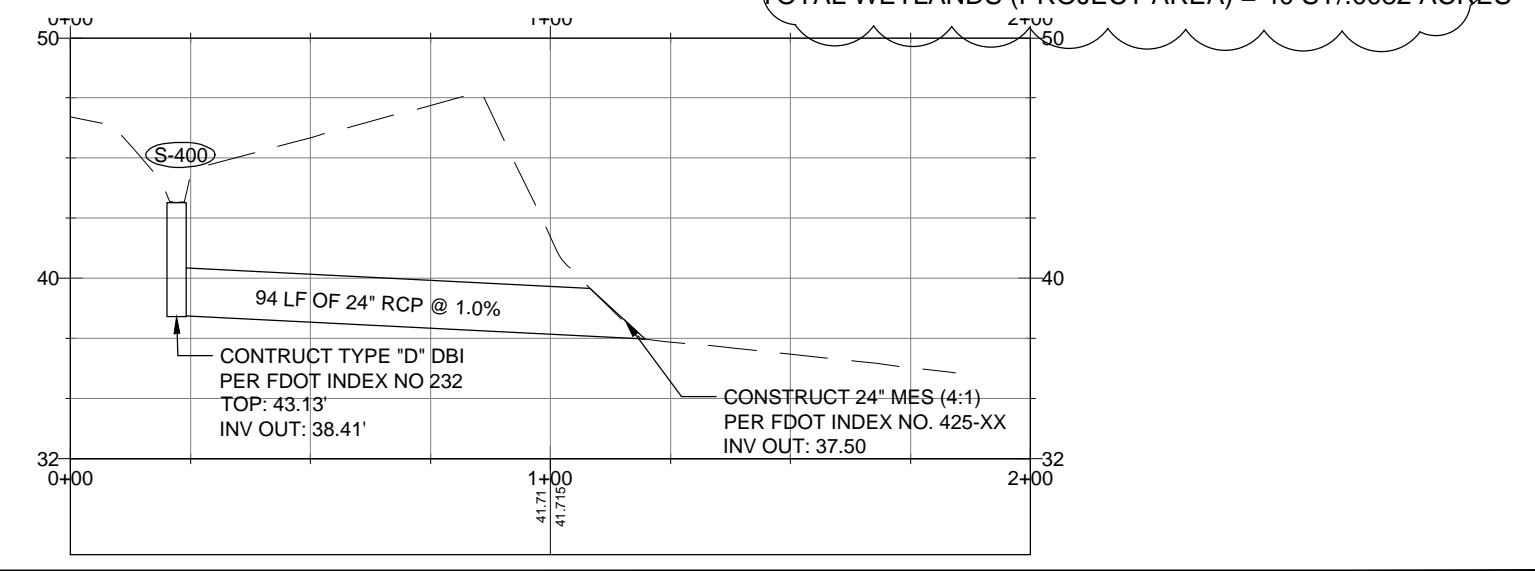
TOTAL TEMPORARY IMPACTS = 40 SY / 0.0082 ACRES

TOTAL PERMANENT IMPACTS = 4 SY / 0.0008 ACRES

TOTAL WETLANDS (PROJECT AREA) = 40 SY / 0.0082 ACRES



**SOUTH POND INFLOW**  
"NO WETLANDS IMPACTS"



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ENGINEERING DEPARTMENT

MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
IMPROVEMENTS  
POND INFLOW - PLAN/PROFILE

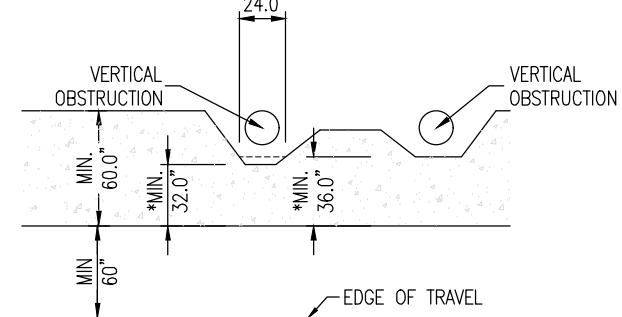
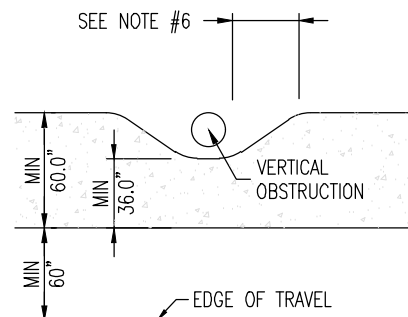
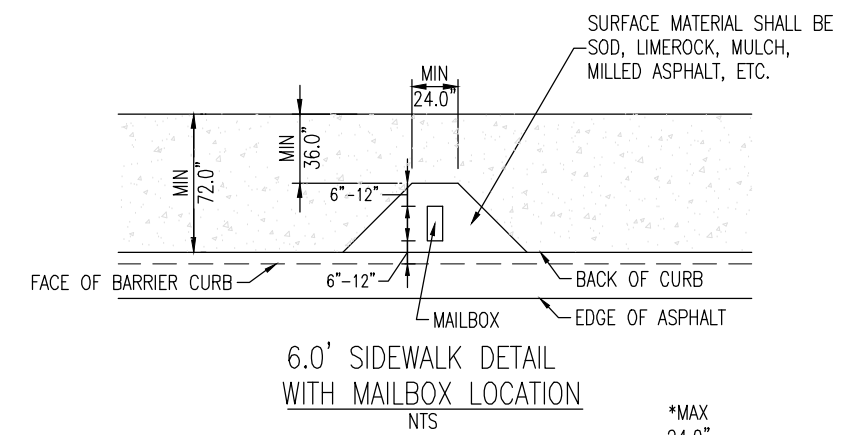
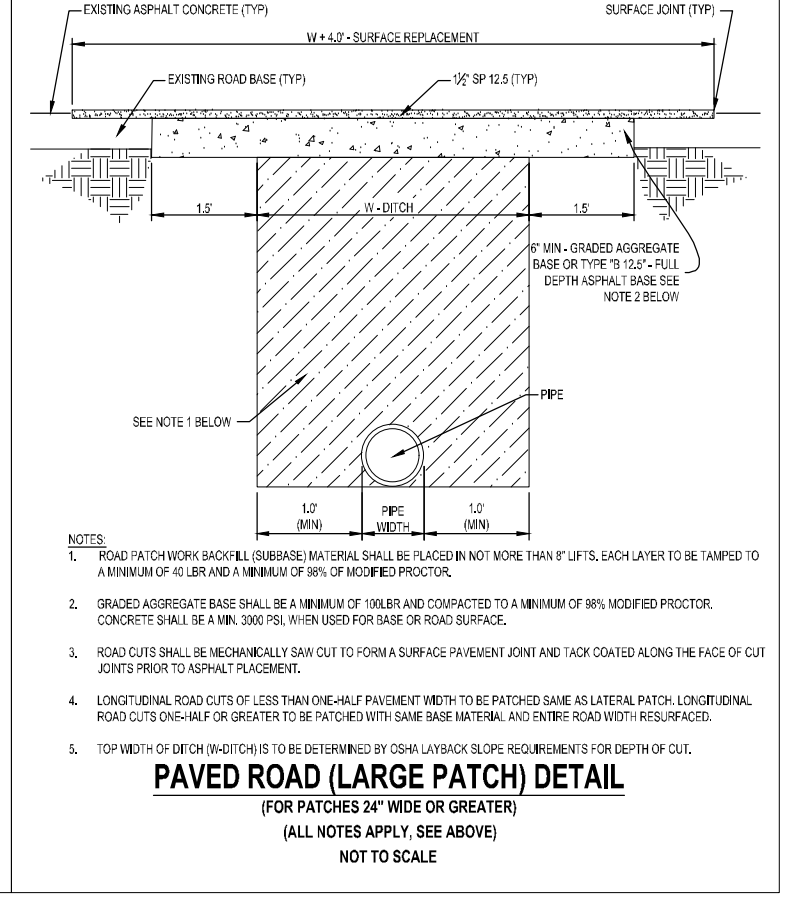
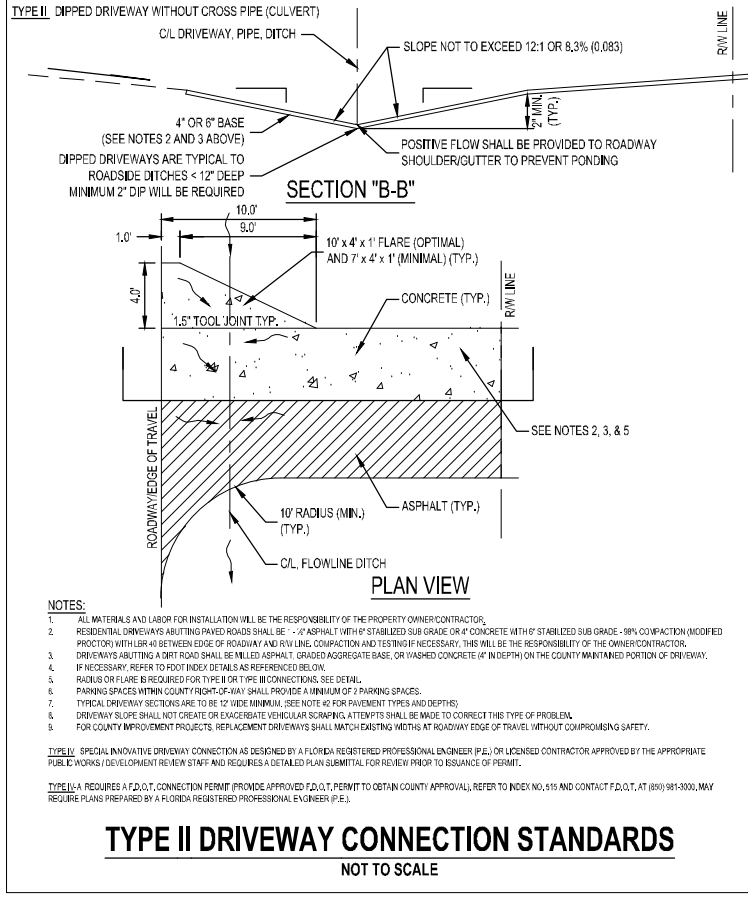
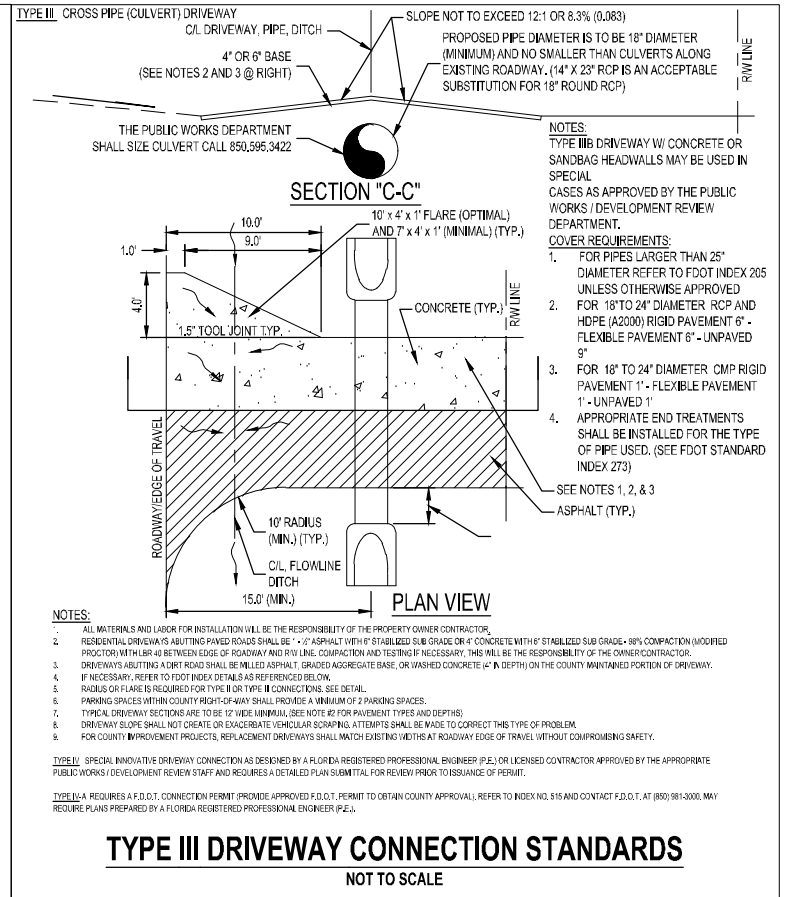
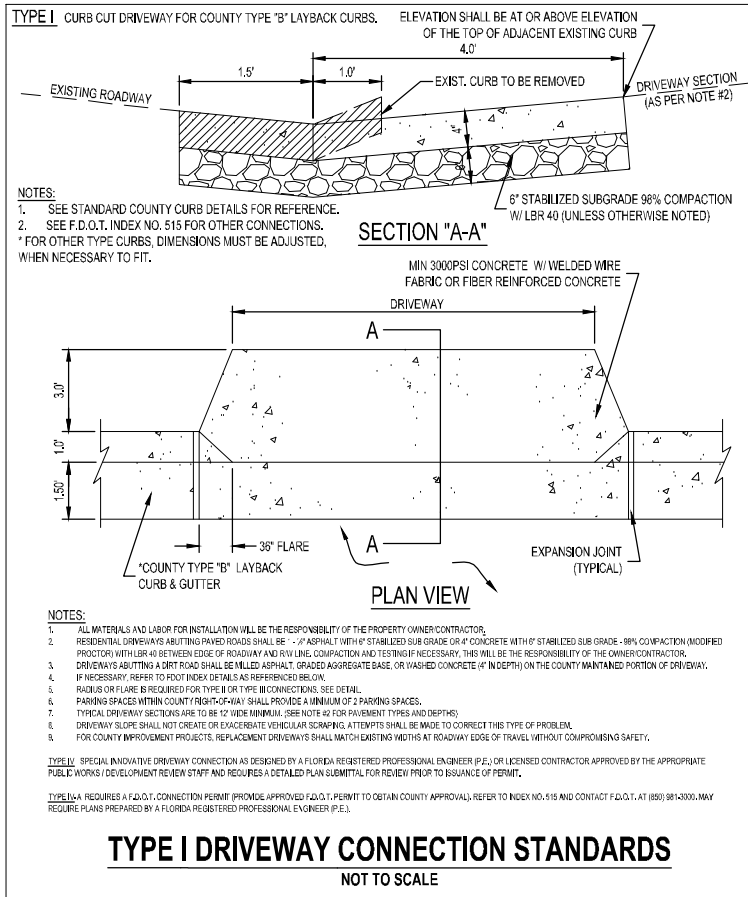
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Sheet: **24**

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- NOTES:**
- CONTRACTOR SHALL COMPLY WITH ALL ADA, FDOT, AND ESCAMBIA COUNTY SPECIFICATIONS.
  - THE PEDESTRIAN CLEAR WIDTH OF WALKING SURFACES SHALL BE 60MINIMUM. IN AREAS WHERE THE SIDEWALK CAN NOT BE CONSTRUCTED AT 60" WIDE, THE DESIGN ENGINEER SHALL NOTIFY THE COUNTY ENGINEER, OR DESIGNEE, IMMEDIATELY WITH AN ALTERNATE DESIGN OR RESOLUTION. ANY DEVIATION FROM THE STANDARD DESIGN SHALL BE DOCUMENTED AND PROVIDED TO THE APPROPRIATE COUNTY P.M. FOR RECORDING.
  - IF THE VERTICAL OBSTRUCTION DOES NOT ALLOW FOR THE MINIMUM PEDESTRIAN CLEAR WIDTH, THE OBSTRUCTION REQUIRES RELOCATION BY THE APPROPRIATE PROVIDER.
  - MAILBOXES ON CURBED HIGHWAYS, ROADS AND STREETS SHALL BE SET WITH THE FACE OF THE BOX BETWEEN 6" AND 12" BACK OF THE FACE OF CURB AS PER FDOT INDEX 532
  - SIDEWALKS THAT ARE CONSTRUCTED ADJACENT TO TYPE F CURBS, SHALL BE A MIN. 6' WIDE. SIDEWALKS CONSTRUCTED IN AREAS WHERE NO CURBING IS INSTALLED SHALL HAVE A MINIMUM 5' SETBACK FROM TRAVEL LANE AND BE AT LEAST 5' WIDE.
  - IN AREAS WHERE SUFFICIENT RIGHT OF WAY IS AVAILABLE, THE TRANSITION BETWEEN SIDEWALK WIDTHS SHALL BE A MINIMUM OF 10' FEET IN LENGTH.

**SIGMA CONSULTING GROUP, INC.**  
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BOARD OF COUNTY COMMISSIONERS  
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 ENGINEERING DEPARTMENT

MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 DETAILS

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 Checked By: J.L.L.  
 Sheet: 25

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MASSACHUSETTS AVENUE - DRIVEWAY QUANTITIES

DW #	MATERIAL	TYPE	STATION	SIDE	WIDTH (FT)	AREA (SY)	DW #	MATERIAL	TYPE	STATION	SIDE	WIDTH (FT)	AREA (SY)
1A	CONCRETE	III	10+15	LT	24'	43	24A	CONCRETE	III	84+94	LT	12'	44
1	ASPHALT	I	10+67	RT	38'	101	25	CONCRETE	III	85+24	RT	12'	54
2A	ASPHALT	III	11+10	LT	30'	82	26	CONCRETE	III	86+97	RT	14'	48
2	ASPHALT	I	12+17	RT	19'	63	27	ASPHALT	*TYP	88+31	RT	65'	156
3	ASPHALT	I	13+70	RT	80'	214	27A	CONCRETE	II	89+75	RT	20'	53
4	CONCRETE	I	15+24	RT	12'	39	28	CONCRETE	II	91+62	RT	20'	53
5	ASPHALT	III	23+62	RT	21'	91	29	ASPHALT	*TYP	96+50	RT	170'	376
6	CONCRETE	III	23+94	RT	16'	54	30	CONCRETE	II	97+87	RT	12'	32
7	CONCRETE	III	56+97	LT	13'	47	31	ASPHALT	II	98+98	RT	97'	225
8	CONCRETE	III	60+14	RT	18'	57	32	CONCRETE	II	99+60	RT	12'	32
8A	CONCRETE	III	60+95	RT	18'	58	33	CONCRETE	II	101+34	RT	12'	32
8B	CONCRETE	III	61+55	RT	12'	41	34	CONCRETE	II	101+66	RT	12'	33
9	CONCRETE	III	61+72	LT	12'	44	35	CONCRETE	II	102+70	RT	12'	33
10	CONCRETE	III	61+98	RT	12'	42	36	ASPHALT	II	103+60	RT	24'	63
11	CONCRETE	III	62+01	LT	12'	44	37	CONCRETE	III	103+97	LT	12'	33
12	CONCRETE	III	63+33	LT	12'	43	38	ASPHALT	II	104+96	RT	24'	63
13	CONCRETE	III	63+64	LT	12'	43	39	CONCRETE	II	106+51	RT	12'	34
14	CONCRETE	III	64+86	LT	12'	43	40	CONCRETE	II	106+85	RT	(2) 12'	64
15	CONCRETE	III	64+91	RT	12'	42	41	CONCRETE	II	107+24	RT	12'	34
16	CONCRETE	III	65+12	LT	12'	43	42	CONCRETE	II	107+44	RT	12'	34
17	CONCRETE	III	65+50	RT	12'	42	43	CONCRETE	II	107+65	RT	12'	34
18	CONCRETE	III	66+31	LT	12'	43	44	CONCRETE	II	108+10	RT	(2) 12'	66
19	CONCRETE	III	66+60	LT	12'	43	45	CONCRETE	II	108+46	RT	(2) 12'	68
20	CONCRETE	III	67+80	LT	12'	43	46	CONCRETE	II	108+79	RT	12'	35
21	CONCRETE	III	68+14	LT	12'	42	47	CONCRETE	II	109+06	RT	12'	35
22	CONCRETE	III	69+32	LT	12'	43	48	CONCRETE	II	109+50	RT	(2) 12'	68
23	ASPHALT	III	70+89	RT	30'	133	49	CONCRETE	II	109+91	RT	(2) 12'	69
23A	ASPHALT	III	78+14	RT	24'	90	50	CONCRETE	II	110+46	RT	(2) 12'	70
23B	ASPHALT	I	78+80	LT	31'	115							
24	CONCRETE	III	83+74	RT	12'	57							

\*TYP SEE TYPICAL SECTION "TYPICAL D/W SECTION MASSACHUSETTS AVE" ON SHEET 4

LEGEND - EXISTING TOPOGRAPHY

CONTROL POINT		GAS LINE	
TEMPORARY BENCHMARK		GAS METER	
PHOTO TARGET		GAS SERVICE (NO METER)	
PAVEMENT EDGE		GAS REGULATOR	
SHOULDER EDGE		GAS RISER	
SLOPE TOE		GAS TEST BOX	
GUARDRAIL TOP		GAS VALVE	
HIGH BANK		GAS LINE/CASING	
WATER'S EDGE		GAS VENT	
HIGH WATER MARK		RAILROAD MILEPOST	
BOX CULVERT		RAILROAD SIGNAL	
PIPE CULVERT		RAILROAD SWITCH	
CATCH BASIN TOP		RAILROAD TRACK	
DROP INLET TOP (ROUND)		RR TRAFFIC SIGNAL BOX	
DRAINAGE MANHOLE TOP		SEWER LINE	
LEVEE TOP		SEWER MANHOLE TOP	
DITCH CENTERLINE		SEWER BLOWOUT VALVE	
TREE		SEWER CLEANOUT	
MARSH LINE		SEPTIC TANK	
SWAMP LINE		SEWER PUMP (PRIVATE)	
TREE CLUSTER		SEWER TREATMENT (INDIVIDUAL)	
HEDGE		FEDERAL AID MARKER	
BUSH		TRAFFIC CONTROLLER BOX	
WOODS/TREE LINE		TRAFFIC COUNTER	
FENCE LINE		TRAFFIC SIGNAL	
GATE		TRAFFIC SIGNAL SUPPORT POLE	
CATTLE GUARD		LIGHT POLE	
PROPERTY CORNER		LIGHT PEDESTAL	
RIGHT OF WAY MONUMENT		LIGHT POWER VAULT	
SECTION CORNER		TRAFFIC SIGN	
FENCE CORNER		PARKING METER	
TELEVISION CABLE		TELEPHONE POLE	
TELEVISION PEDESTAL		TELEPHONE LINE	
POWER POLE		TELEPHONE BOOTH	
DEADMAN		TELE CROSS CONNECT BOX	
POWER LINE		TELEPHONE PEDESTAL	
POWER JUNCTION BOX		TELEPHONE PRESSURE BOX	
POWER VAULT		WATER LINE	
TRANSFORMER		WATER LINE/CASING	
COMBINATION POLE		WATER CLEANOUT	
POWER DROP		WATER METER	
PIPELINE		WATER VALVE	
PIPELINE VENT		WATER VALVE VAULT	
PIPELINE REGULATOR		WATER WELL	
GAS WELL		FIRE HYDRANT	
OIL WELL		BILLBOARD	
		FUEL PUMP	
		POST	
		SIGN POST	
		STORAGE TANK (ROUND)	
		GRAVE	
		MAILBOX	
		GENERAL PRIVATE LIGHT	
		FLAG POLE	
		TEST PILE	
		SOIL BORINGS	

SIGMA CONSULTING GROUP, INC.  
 3298 SUMMIT BOULEVARD, SUITE 32  
 PENSACOLA, FLORIDA 32503  
 PHONE: (850) 532-7912  
 CERTIFICATE OF AUTHORIZATION #26889

BOARD OF COUNTY COMMISSIONERS  
 ESCAMBIA COUNTY, FLORIDA  
 ENGINEERING DEPARTMENT

MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 DETAILS

NO.	REVISION	DATE

RELEASED FOR BID

Project Number:  
180701

Date:  
JANUARY 2023

Drawn By:  
F.E.A.

Designed By:  
F.E.A.

Checked By:  
J.L.L.

Sheet:  
26

**MASSACHUSETTS AVENUE - SIDEWALK AND DRAINAGE IMPROVEMENTS PROJECT**

**FPID # 440721-1-38-01**

**SIGMA PROJECT # 180701**

**February 11, 2020**

**UTILITY CONFLICT MATRIX**

Conflict #	Utility Owner	Station	Utility	Conflict Description	Recommended Resolution
1	ESC COUNTY	9+79 R	PEDESTRIAN CROSSING SIGNAL	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE @ 20' EAST OF EXISTING LOCATION.
2	ESC COUNTY	10+00 R	PEDESTRIAN CROSSING SIGNAL	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE @ 26' SOUTH OF EXISTING LOCATION.
3	ESC COUNTY	10+00 R	STREET LIGHT PULLBOX (2)	CONFLICT WITH PROPOSED SIDEWALK	ADJUST EXISTING SLAB TO BE FLUSH WITH PROPOSED SIDEWALK
4	PENSACOLA ENERGY	10+40 R	4" STEEL COATED GAS LINE	CROSSING PROPOSED 36" S.S. PIPE	RELOCATE EXISTING GAS LINE IF NECESSARY
5	PENSACOLA ENERGY	14+25-15+45 R	4" STEEL COATED GAS LINE	GAS LINE LOCATED 2' NORTH OF PROPOSED 30"/24" S.S. PIPES & INLETS (2)	CONTRACTOR TO LOCATE EXISTING GAS LINE BEFORE EXCAVATING
6	ECUA	34+60 R	WATER VALVE	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER VALVE IF NECESSARY
7	ECUA	35+40 R	WATER VALVE	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER VALVE IF NECESSARY
8	ECUA	36+90 L	SEWER MANHOLE	CONFLICT WITH PROPOSED SIDEWALK	RUN PROPOSED SIDEWALK AROUND SEWER MANHOLE
9	PENSACOLA ENERGY	49+00 R	4" STEEL COATED GAS LINE	GAS LINE LOCATED 2' SOUTH OF PROPOSED INLET	CONTRACTOR TO LOCATE EXISTING GAS LINE BEFORE EXCAVATING
10	ECUA	50+18 R	WATER VALVE	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER VALVE IF NECESSARY
11	ECUA	58+00 L	WATER METER	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER METER IF NECESSARY
12	PENSACOLA ENERGY	58+55 R	GAS VALVE & MARKER	CONFLICT WITH PROPOSED SIDEWALK	ADJUST GAS VALVE & MARKER IF NECESSARY
13	ECUA	58+95 L	WATER VALVE	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER VALVE IF NECESSARY
14	UNKNOWN	59+75 L	TELEPHONE PULLBOX	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE/ADJUST PER UTILITY OWNER'S DIRECTIONS
15	PENSACOLA ENERGY	62+80 R	GAS VALVE & MARKER (2)	CONFLICT WITH PROPOSED SIDEWALK	ADJUST GAS VALVE & MARKERS IF NECESSARY
16	ECUA	66+65 R	SANITARY SEWER MANHOLE	EXISTING SIDE STREET HOLDS WATER	RAISE M.H. TOP TO MATCH NEW ASPHALT GRADES & PREVENT STORMWATER INTRUSION
17	PENSACOLA ENERGY	80+55 R	4" STEEL COATED GAS LINE	GAS LINE LOCATED 8' NORTH OF STRUCTURE S-400	CONTRACTOR TO LOCATE EXISTING GAS LINE BEFORE EXCAVATING
18	ECUA	82+15 L	12" C.I. WATERMAIN	RUNS PARALLEL TO STRUCTURE S-300	CONTRACTOR TO LOCATE BEFORE EXCAVATION. (TO BE PROTECTED)
19	PENSACOLA ENERGY	86+60 R	4" STEEL COATED GAS LINE	CONFLICT WITH PROPOSED 18" PIPE	GAS LINE TO BE RELOCATED (IF NECESSARY)
20	ECUA	87+00 L-92+50 L	12" C.I. WATERMAIN	RUNS PARALLEL TO PROPOSED STORM WATER SYSTEM	CONTRACTOR TO LOCATE BEFORE EXCAVATION. (TO BE PROTECTED)
21	ECUA	87+60 L	WATER VALVE	CONFLICT WITH PROPOSED S.S. PIPE/SIDEWALK	ADJUST VALVE IF NECESSARY
22	PENSACOLA ENERGY	87+80 R	GAS MARKER	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE GAS MARKER IF NECESSARY
23	ECUA	87+90 L	16" D.I. FORCEMAIN	CROSSES PROPOSED STORM SEWER	CONTRACTOR TO LOCATE BEFORE EXCAVATION.

**MASSACHUSETTS AVENUE - SIDEWALK AND DRAINAGE IMPROVEMENTS PROJECT**

**FPID # 440721-1-38-01**

**SIGMA PROJECT # 180701**

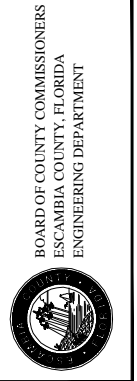
**February 11, 2020**

**UTILITY CONFLICT MATRIX**

Conflict #	Utility Owner	Station	Utility	Conflict Description	Recommended Resolution
24	PENSACOLA ENERGY	89+24 L	GAS LINE	CONFLICT CROSSING PROPOSED S.S. PIPE	ADJUST GAS LINE (IF NECESSARY)
25	ECUA	89+25 L	WATER VALVE	CONFLICT WITH PROPOSED S.S. PIPE	ADJUST VALVE IF NECESSARY
26	PENSACOLA ENERGY	91+80 L	GAS LINE	CONFLICT CROSSING PROPOSED S.S. PIPE	ADJUST GAS LINE (IF NECESSARY)
27	GULF POWER	91+95 R	GUY WIRE	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE GUY WIRE (IF NECESSARY)
28	UNITI FIBER LLC	95+25 L	FIBER OPTIC MARKER	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE FIBER OPTIC MARKER
29	ECUA	97+07 R	WATER VALVE	CONFLICT WITH PROPOSED DRIVEWAY	ADJUST WATER VALVE IF NECESSARY
30	PENSACOLA ENERGY	97+10 R	GAS VALVE	CONFLICT WITH PROPOSED DRIVEWAY	ADJUST GAS VALVE & MARKER IF NECESSARY
31	GULF POWER	97+40 R	POWER JUNCTION BOX (2)	FRONT OF SIDEWALK RUNS BEHIND BOXES	POWER JUNCTION BOXES (TO BE PROTECTED)
32	UNITI FIBER LLC	97+75 R	TELEPHONE PULL BOX	CONFLICT WITH PROPOSED SIDEWALK	TELEPHONE PULL BOX TO BE ADJUSTED (IF NECESSARY)
33	UNITI FIBER LLC	97+75 R	FIBER OPTIC MARKER	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE FIBER OPTIC MARKER, IF NECESSARY
34	ECUA	99+50 R	WATER VALVES (2)	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER VALVES IF NECESSARY
35	PENSACOLA ENERGY	99+65 R	GAS VALVE	CONFLICT WITH PROPOSED DRIVEWAY	ADJUST GAS VALVE IF NECESSARY
36	ECUA	100+10 L	FIRE HYDRANT	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE FIRE HYDRANT IF NECESSARY
37	ECUA	100+90 R	WATER METER	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER METER IF NECESSARY
38	ECUA	102+30 R	WATER METER	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER METER IF NECESSARY
39	UNKNOWN	103+75 L	MANHOLE TOP	CONFLICT WITH PROPOSED SIDEWALK	ADJUST M.H. TOP TO BE FLUSH WITH PROPOSED SIDEWALK
40	UNKNOWN	103+95 R	PVC MARKER	CONFLICT WITH PROPOSED SIDEWALK	PVC MARKER TO BE ADJUSTED, IF NECESSARY
41	GULF POWER	105+60 L	GUY WIRE	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE GUY WIRE (IF NECESSARY)
42	ECUA	105+70 L	FIRE HYDRANT	CONFLICT WITH PROPOSED SIDEWALK	RELOCATE FIRE HYDRANT IF NECESSARY
43	ECUA	106+50 R	WATER METER	CONFLICT WITH PROPOSED DRIVEWAY	WATER METER TO BE ADJUSTED IF NECESSARY
44	ECUA	109+45 R	WATER METER	CONFLICT WITH PROPOSED DRIVEWAY	WATER METER TO BE ADJUSTED IF NECESSARY
45	ECUA	109-80 L	WATER VALVE	CONFLICT WITH PROPOSED SIDEWALK	ADJUST WATER VALVE IF NECESSARY
46	ECUA	110+55 R	WATER METER	CONFLICT WITH PROPOSED DRIVEWAY	WATER METER TO BE ADJUSTED IF NECESSARY
47	UNITI FIBER LLC	112+90 L	TELEPHONE MANHOLE	IN CONFLICT WITH PROPOSED SIDEWALK	ADJUST MANHOLE (IF NECESSARY)



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PENSACOLA, FLORIDA 32503  
PHONE: (850) 332-7912  
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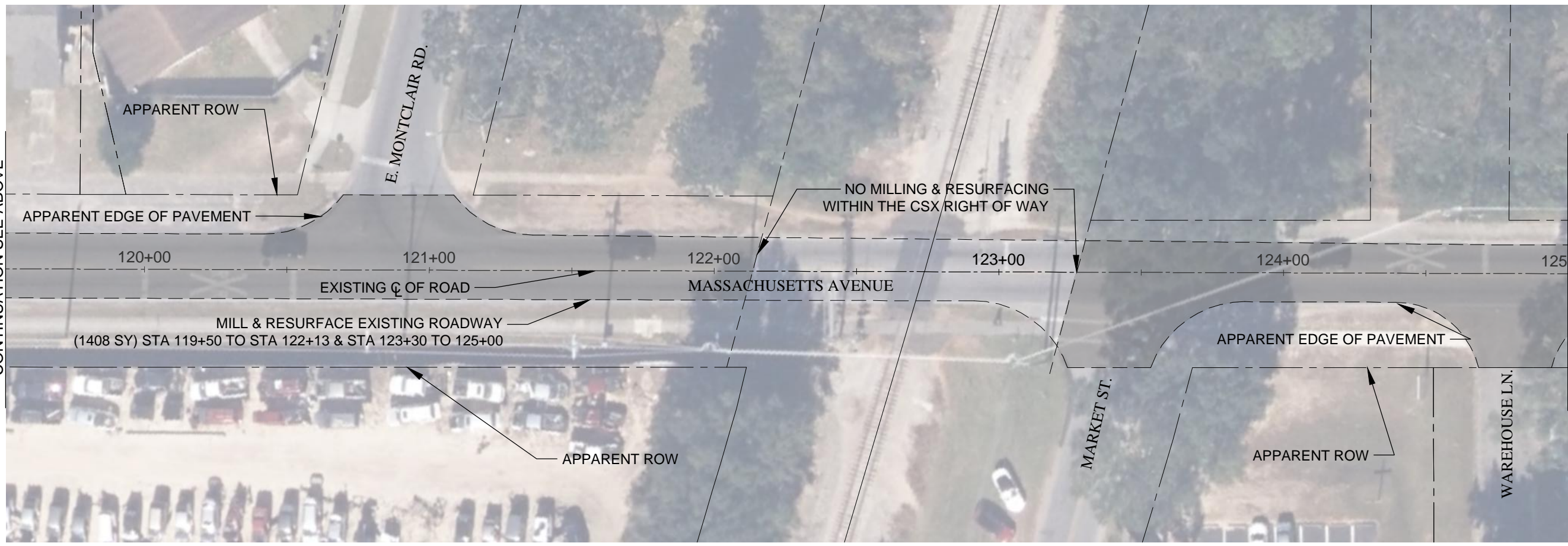
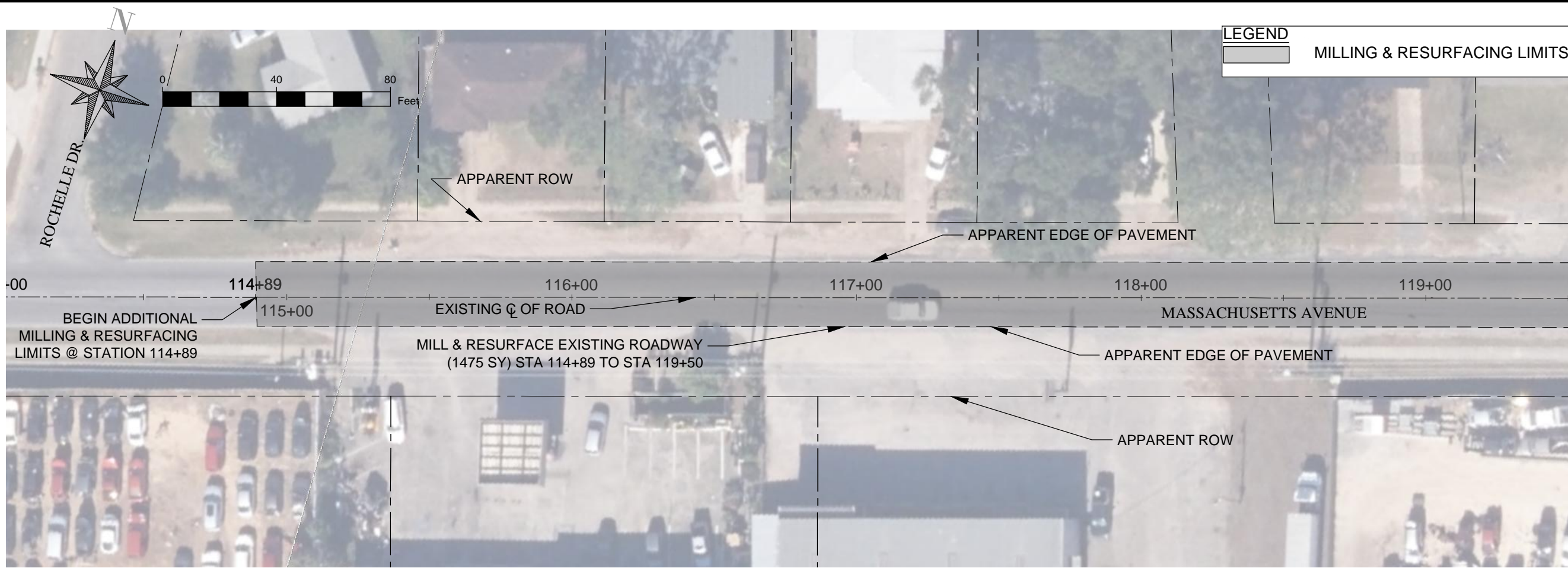


MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
IMPROVEMENTS  
UTILITY CONFLICT MATRIX

NO.	REVISION	DATE

Project Number:  
180701  
Date:  
JANUARY 2023  
Drawn By:  
F.E.A.  
Designed By:  
F.E.A.  
Checked By:  
J.L.L.  
Sheet:  
27

RELEASED FOR BID



**LEGEND**  
 [Shaded Box] MILLING & RESURFACING LIMITS

MATCHLINE STA 119+50  
FOR CONTINUATION SEE BELOW

MATCHLINE STA 125+00  
FOR CONTINUATION SEE SHEET 29

3288 SUMMIT BLVD., STE. 32  
 PENSACOLA, FLORIDA 32503  
 PHONE: (850) 332-7912  
**SIGMA**  
 CONSULTING GROUP, INC.  
 A WAGGONER COMPANY AUTHORIZATION #26889

BOARD OF COUNTY COMMISSIONERS  
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 ENGINEERING DEPARTMENT

**MASSACHUSETTS AVENUE  
 SIDEWALK & DRAINAGE  
 IMPROVEMENTS  
 MILLING & RESURFACING**

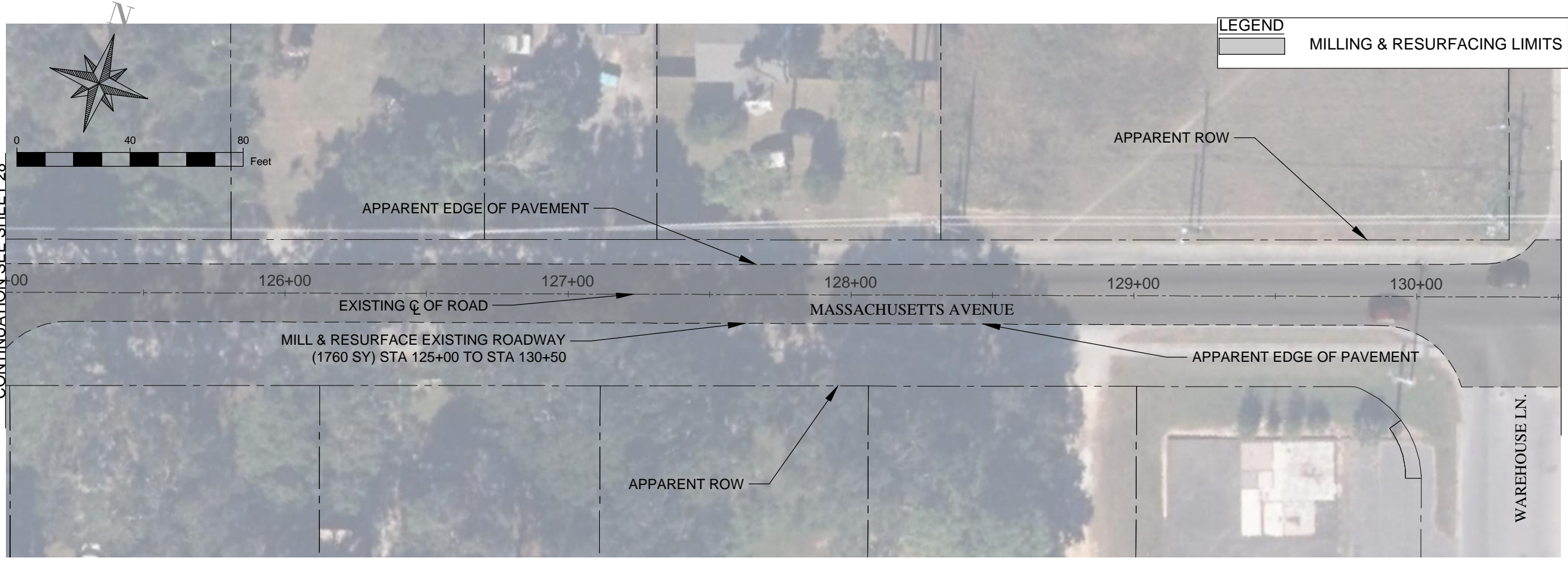
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 Drawn By:  
F.E.A./R.N.R.  
 Designed By:  
F.E.A.  
 Checked By:  
J.L.L.  
 Sheet:  
**28**

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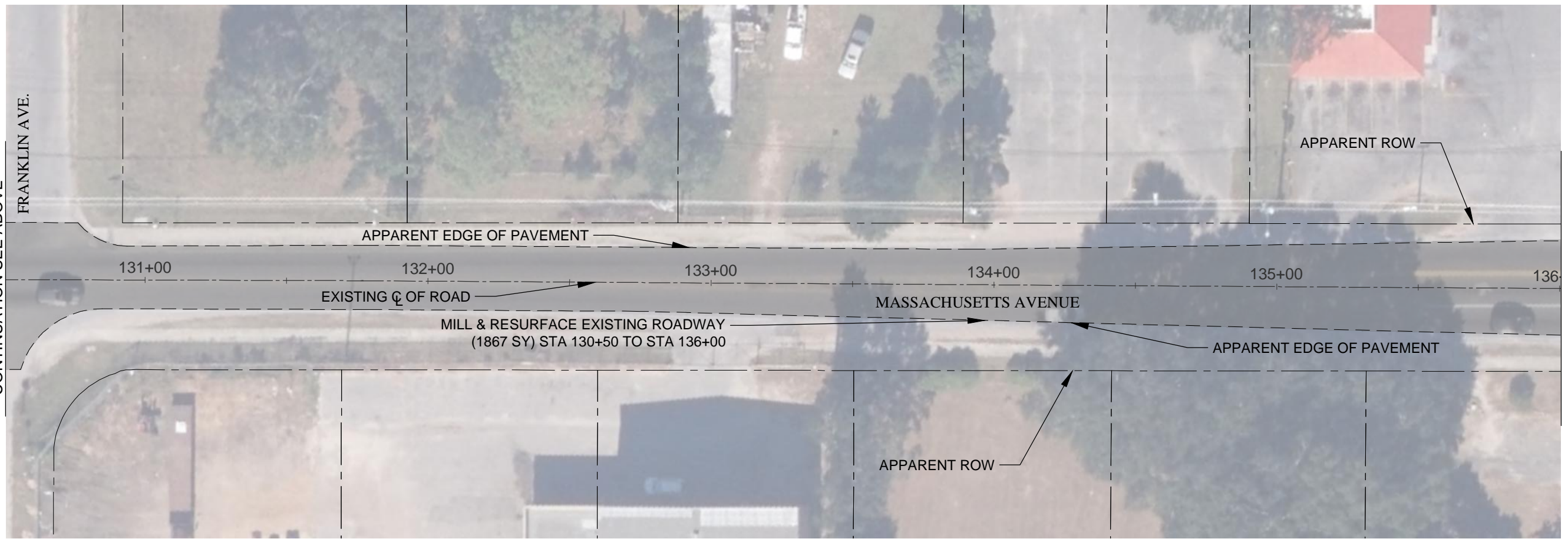
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MATCHLINE STA 125+00 FOR CONTINUATION SEE SHEET 28



MATCHLINE STA 130+50 FOR CONTINUATION SEE BELOW

MATCHLINE STA 130+50 FOR CONTINUATION SEE ABOVE



MATCHLINE STA 136+00 FOR CONTINUATION SEE SHEET 30

LEGEND  
MILLING & RESURFACING LIMITS

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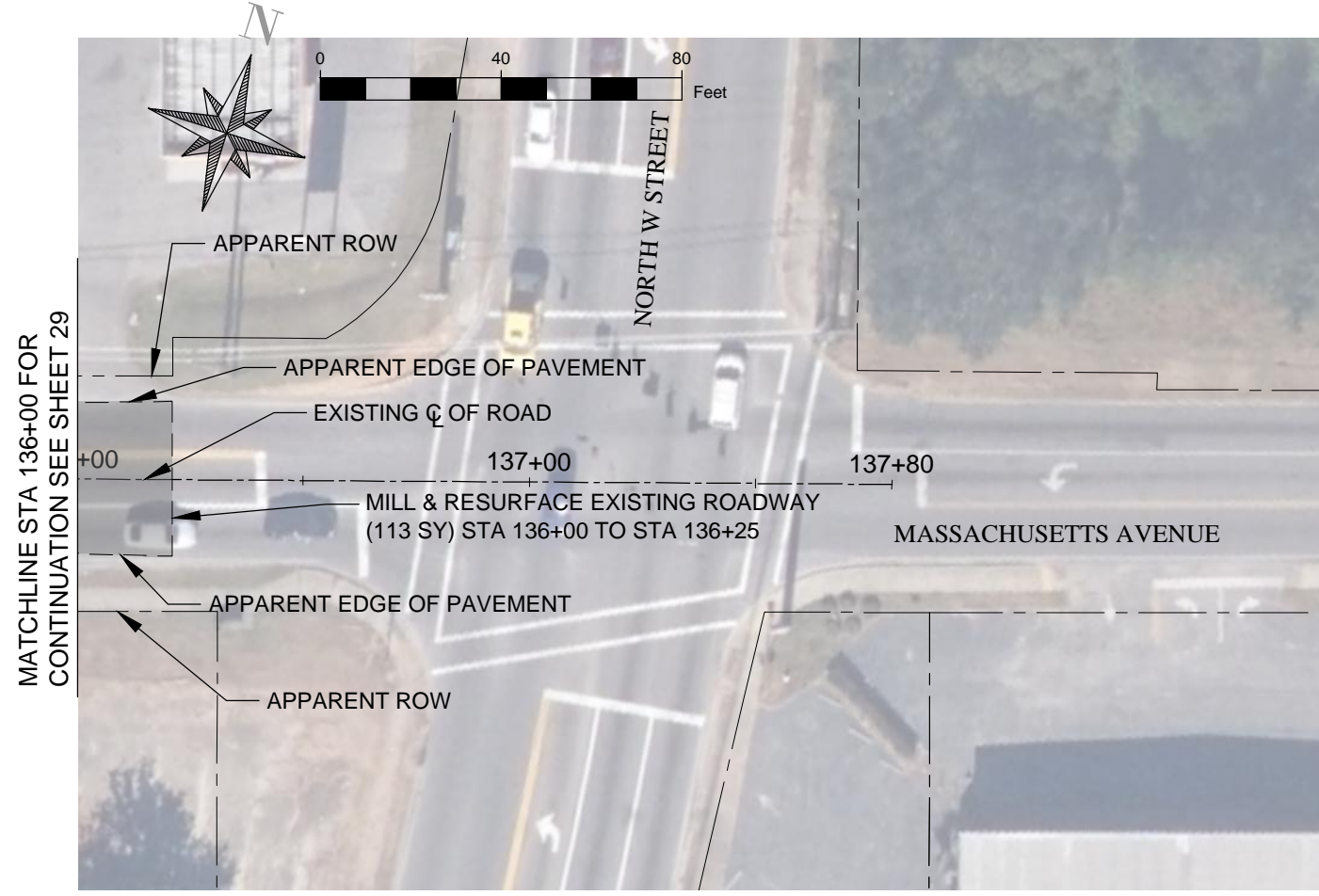
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MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
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**LEGEND**

MILLING & RESURFACING LIMITS

NO.	REVISION	DATE

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180701

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JANUARY 2023

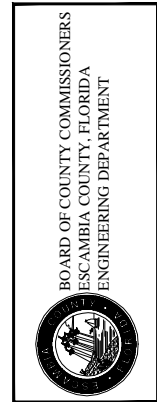
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F.E.A.

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**30**

**MASSACHUSETTS AVENUE  
SIDEWALK & DRAINAGE  
IMPROVEMENTS  
MILLING & RESURFACING**



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