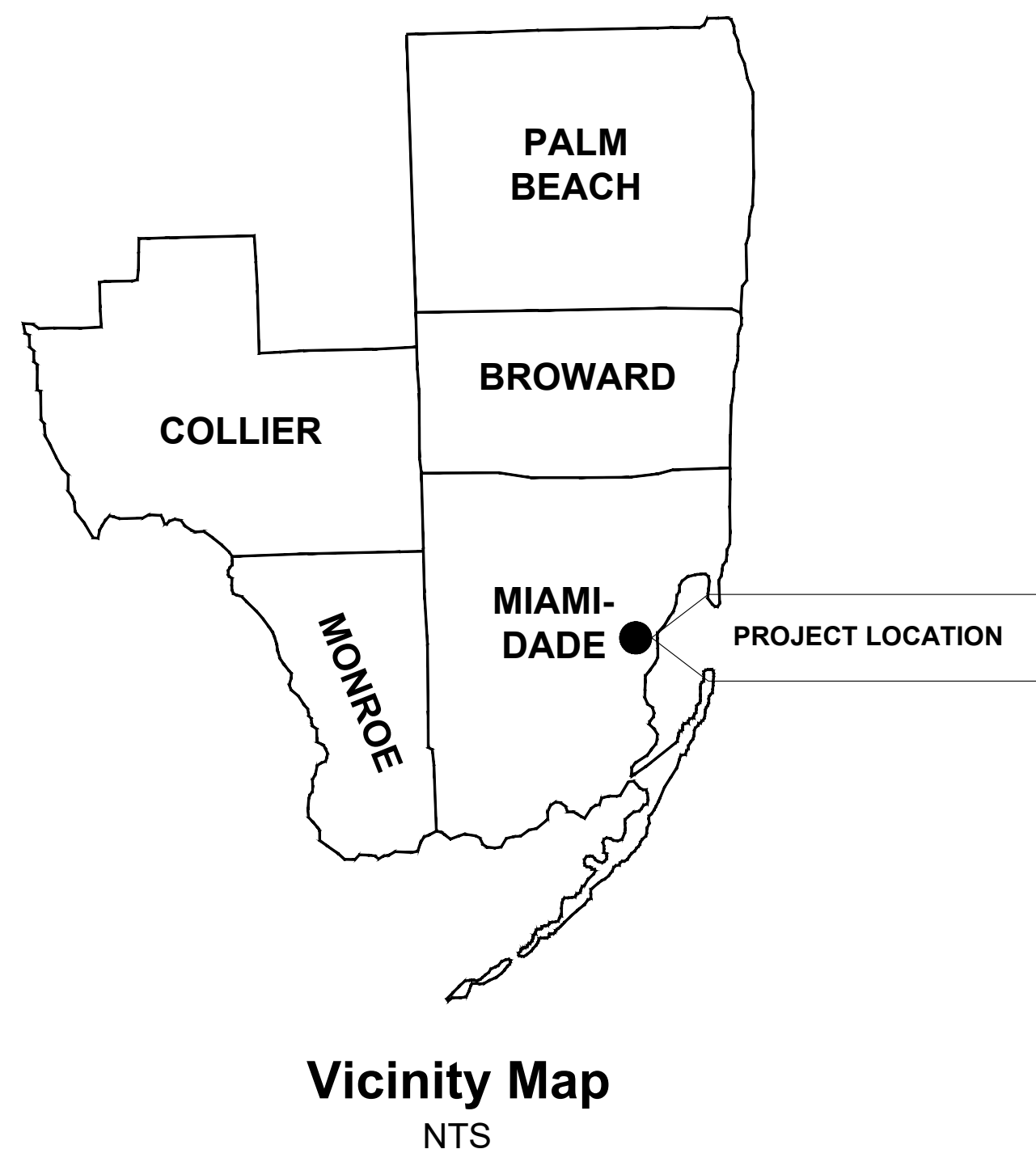


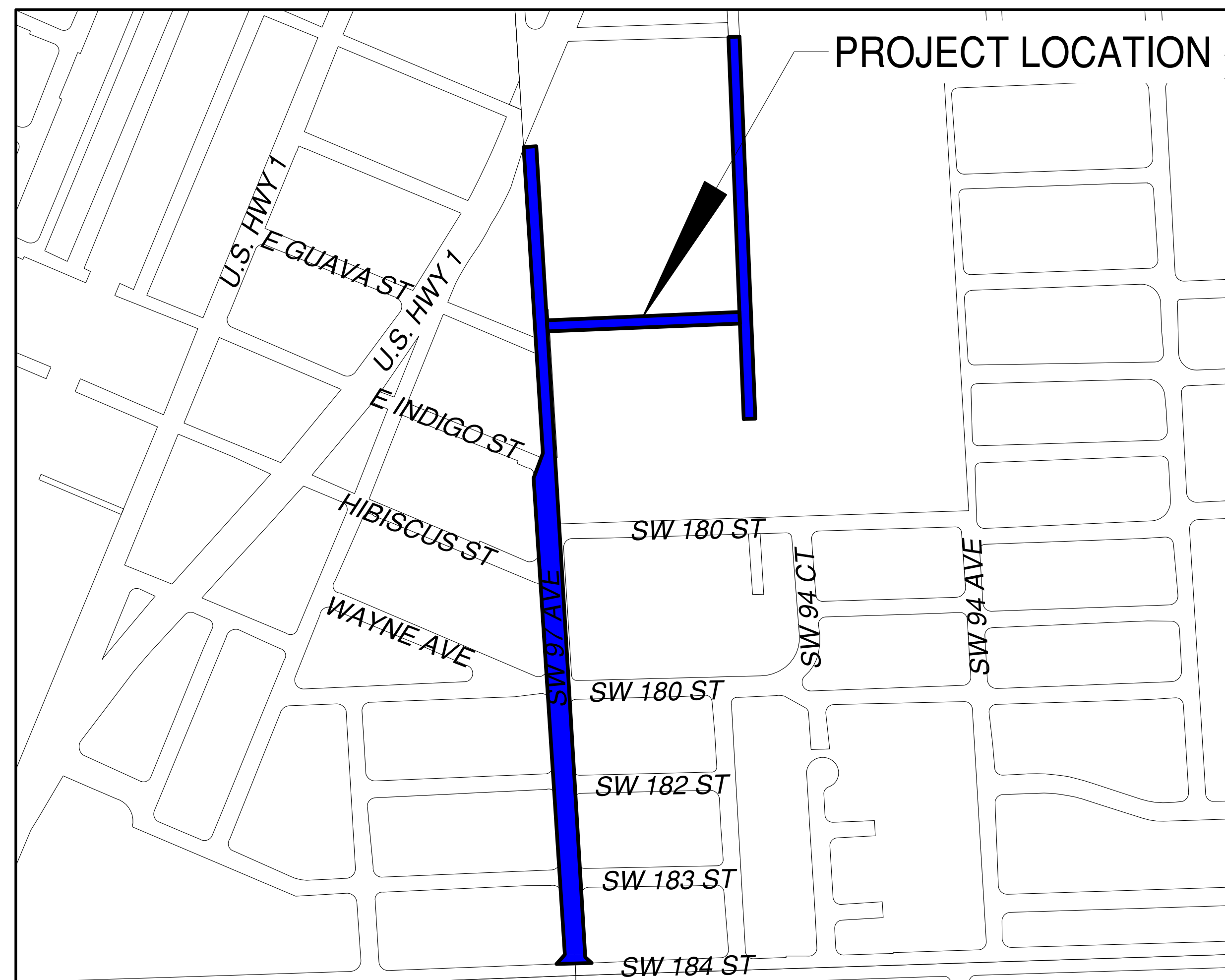
ROADWAYS AND COMPLETE INFRASTRUCTURE IMPROVEMENTS: FRANJO ROAD (SW 97 AVE) (DESIGN-BUILD)

SW 97 AVENUE (FRANJO ROAD) FROM SW 184 STREET (EUREKA DRIVE) TO SOUTH OF US-1/SOUTH DIXIE HIGHWAY; SW 95 AVENUE (PARK DRIVE)(NEW ROAD) FROM SW 179 STREET TO SW 175 TERRACE;
SW 178 ST (NEW ROAD) FROM FRANJO RD TO PARK DRIVE
SECTION 33, TOWNSHIP 55 SOUTH, RANGE 40 EAST

WATER AND SANITARY SEWER PLANS AGREEMENT ID. 30104



LEGAL DESCRIPTION:
A PORTION OF THE PUBLIC RIGHT OF WAY IN THE VILLAGE OF PALMETTO BAY ALONG S.W. 97 AVENUE (FRANJO ROAD) FROM SOUTH DIXIE HIGHWAY (US-1) TO S.W. 184 STREET (EUREKA DRIVE), ALONG PUBLIC RIGHT OF WAY OF E. GUAVA STREET FROM WEST OF FRANJO ROAD TO FRANJO ROAD, ALONG PROPOSED PUBLIC RIGHT OF WAY OF S.W. 95 AVENUE (PARK DRIVE) FROM S.W. 175 TERRACE TO S.W. 180 STREET, AND ALONG PROPOSED PUBLIC RIGHT OF WAY OF S.W. 178 STREET FROM PROPOSED S.W. 95 AVENUE TO FRANJO ROAD.



INDEX OF SHEETS	
SHEET NO.	SHEET TITLE
G-0.00	COVER SHEET
G-1.01	GENERAL NOTES (SHEET 1 OF 2)
G-1.02	GENERAL NOTES (SHEET 2 OF 2)
WM-0.00	WATERMAIN AND SANITARY SEWER LAYOUT PLAN
WM-1.01	FRANJO ROAD WATER MAIN IMPROVEMENT PLAN (SHEET 1 OF 3)
WM-1.02	FRANJO ROAD WATER MAIN IMPROVEMENT PLAN (SHEET 2 OF 3)
WM-1.03	FRANJO ROAD WATER MAIN IMPROVEMENT PLAN (SHEET 3 OF 3)
WM-1.04	SW 178 STREET WATERMAIN PLAN & PROFILE (SHEET 1 OF 2)
WM-1.05	SW 178 STREET WATERMAIN PLAN & PROFILE (SHEET 2 OF 2)
WM-1.06	SW 95 AVENUE WATERMAIN PLAN & PROFILE (SHEET 1 OF 3)
WM-1.07	SW 95 AVENUE WATERMAIN PLAN & PROFILE (SHEET 2 OF 3)
WM-1.08	SW 95 AVENUE WATERMAIN PLAN & PROFILE (SHEET 3 OF 3)
WM-1.09	WATERMAIN STUB PROFILES
SS-1.01	FRANJO ROAD (SW 97 AVENUE) AND SW 178 STREET SANITARY SEWER PLAN & PROFILE
SS-1.02	SW 178 STREET SANITARY SEWER PLAN & PROFILE

PLANS PREPARED BY:
EAC
EAC Consulting, Inc.
CA # 7011
5959 BLUE LAGOON DR., SUITE 410
MIAMI, FL 33126
(305) 265-5400

SHOP DRAWINGS SHALL BE SUBMITTED TO:
EVELYN RODRIGUEZ, P.E.
EAC CONSULTING, INC.
5959 BLUE LAGOON DR, SUITE 410
MIAMI, FL 33126

REVIEWED WATER AND SEWER SHOP DRAWINGS SHALL BE SUBMITTED TO MIAMI-DADE WATER AND SEWER DEPARTMENT FOR APPROVAL PURSUANT TO SECTION 01340 BEFORE A PRE-CONSTRUCTION MEETING IS SCHEDULED

PERMIT SET

DESIGN TICKET NO. 147601727
Always call 811 two full business days before you dig
Sunshine811.com

NOT PART OF MDWASD NOTES NOR APPROVAL
THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT ALL SAID APPROVALS IS AT THE SOLE RISK OF THE CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR ANY CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS. IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.

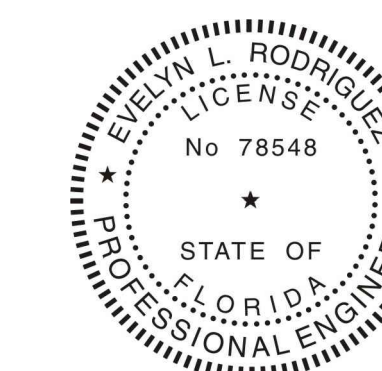
NOT PART OF MDWASD NOTES NOR APPROVAL

<p>PERMIT SET MUST BE ON JOB SITE AT ALL TIMES DURING CONSTRUCTION</p>	<p>SAFETY IS PARAMOUNT FOR ALL CONSTRUCTION ACTIVITIES. APPLICABLE JURISDICTIONAL SAFETY REQUIREMENTS MUST BE ADHERED TO ALWAYS</p>
<p>NOTE INSPECTIONS REQUIRED 48 HOURS PRIOR TO COMMENCING WORK IN PUBLIC RIGHT OF WAY CONTACT APPLICABLE RIGHT OF WAY JURISDICTION FOR INSPECTION</p>	<p>NOTE APPROVAL OF THESE PLANS DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION. A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM JURISDICTIONAL AUTHORITIES</p>
<p>NOTE EXISTING UTILITIES MUST BE LOCATED AND PROPERLY MARKED BY SUNSHINE ONE CALL. THOSE NOT LOCATED BY SUNSHINE ONE CALL SHALL BE COORDINATED WITH RESPECTIVE UTILITY OWNERS.</p>	



3191 Coral Way, Suite 510
Miami, FL 33145
305 9271680

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY EVELYN RODRIGUEZ, P.E. ON THE DATE ADJACENT TO THE SEAL: 2/8/2019



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ENGINEER OF RECORD:
EVELYN L. RODRIGUEZ, P.E.
STATE OF FLORIDA - LICENSE NO. 78548

DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"x36". IF THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET ENGINEER OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.

CONSTRUCTION NOTES (NOT PART OF M-DWASD NOTES OR APPROVAL)

- ALL CONSTRUCTION ASSOCIATED WITH THIS PROJECT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES & AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE FLORIDA ADMINISTRATIVE CODE (FAC) 62-555 & 62-610, VILLAGE OF PALMETTO BAY, MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW), MIAMI-DADE WATER AND SEWER DEPARTMENT (M-DWASD), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), MIAMI DADE DEPARTMENT OF REGULATORY & ENVIRONMENTAL RESOURCES (MRER), AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARDS, CRITERIA & REGULATIONS. ANY DISCREPANCY MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF M-DWASD & ENGINEER OF RECORD (EOR)
- THE DESIGN-BUILDER SHALL BE RESPONSIBLE FOR GETTING FAMILIARIZED WITH THE PROJECT SITE & TO DETERMINE TOPOGRAPHIC OR UNDERGROUND FEATURES THAT WILL BE IMPACTED DUE TO CONSTRUCTION. THE DESIGN-BUILDER SHALL INCLUDE WITHIN THE SUBMITTED BID PRICE, THE COST OF RELOCATING OR REPLACING IN KIND ANY FEATURES IMPACTED DUE TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO EXISTING TREES, UTILITY BOXES, SIGNS, FIRE HYDRANTS, GUARDRAILS, UTILITY POLES, VALVES, ETC.
- DESIGN-BUILDER SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, & UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THE PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING UTILITIES NOT SPECIFIED FOR REMOVAL WHICH IS DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST.
- THE LOCATION & SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE DESIGN-BUILDER SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND/OR BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND/OR M-DWASD.
- DESIGN-BUILDER SHALL BE RESPONSIBLE FOR PROMPTLY REPORTING ANY DISCREPANCIES RELATING TO THE SITE CONDITIONS.
- DESIGN-BUILDER SHALL TAKE ADEQUATE MEASURES TO ENSURE SAFETY WHEN WORKING WITHIN THE VICINITY OF OVERHEAD ELECTRICAL, TELEPHONE & OTHER LINES. PROPER COORDINATION WITH JURISDICTIONAL AUTHORITIES SHALL BE UNDERTAKEN AS APPLICABLE.
- THE DESIGN-BUILDER SHALL KEEP THE SITE REASONABLY FREE FROM DEBRIS, TRASH, & CONSTRUCTION WASTE. BUILDING MATERIAL AND/OR CONSTRUCTION DEBRIS STORED ON OR ADJACENT TO ROADWAYS SHALL BE ADEQUATELY MARKED AT ALL TIMES FOR PEDESTRIAN & TRAFFIC SAFETY.
- DESIGN-BUILDER SHALL OBTAIN ALL NECESSARY PERMITS AND/OR APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- DEWATERING OPERATIONS REQUIRED FOR CONSTRUCTION SHALL BE APPROVED AND/OR PERMITTED BY MIAMI-DADE DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES DIVISION OF ENVIRONMENTAL MANAGEMENT (RER-DEEM).
- ALL LANDSCAPED/OPEN AREAS, SIDEWALKS, PAVEMENTS & OTHER IMPROVEMENTS BEYOND THE PROJECT SCOPE LIMITS IMPACTED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
- IN THE EVENT CONTAMINATED MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE DESIGN-BUILDER SHALL STOP WORK AND IMMEDIATELY ADVISE EOR, VILLAGE OF PALMETTO BAY AND MIAMI-DADE RER ("DERM").
- THE DESIGN-BUILDER SHALL PREPARE & SUBMIT SHOP DRAWINGS.
- ALL ELEVATIONS ON THE PLAN & PROFILE SHEETS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929. BENCHMARKS USED ARE THOSE IDENTIFIED ON THE TOPOGRAPHIC SURVEY/PREPARED BY HADONNE CORP (CA # LB7097) DATED JUNE 13, 2018
- SURVEY MONUMENTS WITHIN THE LIMITS OF THE PROJECT SHALL BE PROTECTED AND SHALL BE REPLACED IF DAMAGED DURING CONSTRUCTION.
- THE DESIGN-BUILDER SHALL INFORM M-DWASD & EOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION, INCLUDING CONNECTIONS TO EXISTING WATER MAINS
- THE DESIGN-BUILDER SHALL COORDINATE WITH UTILITY COMPANIES FOR TEMPORARY RELOCATION/FIELD ADJUSTMENT (IF REQUIRED) TO FACILITATE CONNECTION OF PROPOSED WATER MAIN TO EXISTING WATER MAIN
- THE DESIGN-BUILDER SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICTLY COMPLIANCE WITH ALL THE REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATION
- THE DESIGN-BUILDER SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES UNLESS OTHERWISE APPROVED BY REGULATORY AUTHORITIES.
- THE DESIGN-BUILDER SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT.
- PRIOR TO CONSTRUCTION COMMENCEMENT, DESIGN-BUILDER SHALL UNDERTAKE VIDEO RECORDS OF THE EXISTING CORRIDOR INFORMATION, ESPECIALLY DRIVEWAYS, STRUCTURES AND LANDSCAPING WITHIN THE PRIVATE PROPERTIES TO VALIDATE REQUIRED RESTORATION TO ACHIEVE EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS.

RER WATER AND SEWER NOTES (NOT PART OF M-DWASD NOTES OR APPROVAL)

- A HORIZONTAL DISTANCE OF AT LEAST 6 FEET, AND PREFERABLY 10 FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER PIPES. THE MINIMUM HORIZONTAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE TOP OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE. WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF ONE OF THE FOLLOWING IS MET:
 - THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
 - THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
 - THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE.
- A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS. THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 6 INCHES FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FROM ALL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. THIS DISTANCE CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF ONE OF THE FOLLOWING IS MET:
 - THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
 - THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
- AIR RELEASE VALVES SHALL BE PROVIDED AT HIGH POINTS OF NEW FORCE MAIN SANITARY SEWERS.

- GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE C-900 PVC OR DUCTILE IRON PIPE. THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE:
 - RESIDENTIAL LAND USES. FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE.
 - NON-RESIDENTIAL LAND USES. TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE.
 - ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.
- THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED OUTSIDE A PUBLIC WELLFIELD PROTECTION AREA SHALL BE ONE HUNDRED (100) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE. ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.
- FORCE MAIN SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE DUCTILE IRON, C-900 PVC, HDPE OR REINFORCED CONCRETE PRESSURE SEWER PIPES.
- THE MAXIMUM ALLOWABLE EXFILTRATION/LEAKAGE RATE OF FORCE MAIN SANITARY SEWERS SHALL BE:
 - DUCTILE IRON, C-900 PVC, HDPE AND PVC PIPE. THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWAS) C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
 - REINFORCED CONCRETE PRESSURE PIPE. HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
 - ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.
- THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS.
- IF ANY AREA OF THE WORK SITE IS FOUND TO CONTAIN BURIED SOLID WASTE AND/OR GROUND OR GROUND WATER CONTAMINATION, THE FOLLOWING SHALL APPLY:
 - ALL WORK IN THE AREA SHALL FOLLOW ALL APPLICABLE SAFETY REQUIREMENTS (E.G., OSHA, ETC.) AND NOTIFICATION MUST BE PROVIDED TO THE APPROPRIATE AGENCIES.
 - IMMEDIATELY NOTIFY THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION (EMRD). THE EMRD CAN BE CONTACTED AT (305) 372-6700.
 - IF CONTAMINATED SOILS AND/OR BURIED SOLID WASTE MATERIAL IS EXCAVATED DURING CONSTRUCTION, THEN THEY REQUIRE PROPER HANDLING AND DISPOSAL IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL REGULATIONS. BE ADVISED THAT THE LANDFILL OWNER/OPERATOR IS THE FINAL AUTHORITY ON DISPOSAL AND MAY HAVE REQUIREMENTS BEYOND THOSE PROVIDED BY HEREIN. IF DISPOSAL WITHIN A MIAMI-DADE COUNTY OWNED LANDFILL (CLASS I LANDFILL) IS APPROPRIATE AND SELECTED, PLEASE CONTACT THE MIAMI-DADE COUNTY DEPARTMENT OF SOLID WASTE MANAGEMENT AT (305) 594-6666 FOR INFORMATION.
 - THE REUSE OF CONTAMINATED SOILS THAT ARE NOT RETURNED TO THE ORIGINAL EXCAVATION REQUIRES PRIOR APPROVAL OF A SOIL MANAGEMENT PLAN FROM THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION. THE EMRD CAN BE CONTACTED AT (305) 372-6700.

- PUMPS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS FOR CLASS I, GROUP D, DIVISION 1 LOCATIONS (EXPLOSION PROOF).
- THE CONTRACTOR IS ADVISED THAT A TREE PERMIT MAY BE REQUIRED FOR TREE REMOVAL PRIOR TO REMOVING ANY TREES. THE CONTRACTOR SHALL NOTIFY THE REGULATORY AND ECONOMIC RESOURCES DEPARTMENT AT (305) 372-6574 AND THE CORRESPONDING MUNICIPALITY. THOSE TREES NOT INTERFERING WITH THE CONSTRUCTION SHALL BE PROTECTED IN-PLACE.
- PLEASE NOTE THAT THE DEMOLITION, REMOVAL, AND/OR DISTURBANCE OF EXISTING UNDERGROUND UTILITIES THAT CONTAIN ASBESTOS-CEMENT PIPES (ACP) ARE SUBJECT TO THE PROVISIONS OF 40 CFR-61 SUBPART M. THEREFORE, PURSUANT TO THE PROVISIONS OF 40 CFR-61-145, A NOTICE OF DEMOLITION OR ASBESTOS RENOVATION FORM MUST BE FILED WITH THE AIR QUALITY MANAGEMENT DIVISION (AQMD) OF DERM, AT LEAST TEN (10) WORKING DAYS PRIOR TO STARTING OF ANY WORK. NOTE THAT THE BACKFILLING AND BURIAL OF CRUSHED ACP WOULD CAUSE THESE LOCATIONS TO BE CONSIDERED ACTIVE DISPOSAL SITES AND SUBJECT TO 40 CFR-61.154, AND 40 CFR-61.151 A YEAR AFTER PROJECT COMPLETION. EXISTING STANDARD OPERATING PROCEDURES, AS WELL AS APPLICABLE FEDERAL, STATE AND LOCAL REGULATORY CRITERIA, MUST BE FOLLOWED AND IMPLEMENTED TO MINIMIZE ANY POTENTIAL RELEASE OF FUGITIVE EMISSIONS, ESPECIALLY DURING PROJECT CONSTRUCTION ACTIVITIES. THE AQMD CAN BE CONTACTED VIA EMAIL AT ASBESTOS@MIAMIADADE.GOV OR 305-372-6925.

REV 4/30/2018

WATER MAIN CONSTRUCTION NOTES

- SERVICES FROM THE NEW WATER MAINS SHALL CONSIST OF CORPORATION STOPS, 2-INCH HDPE TUBING AND TERMINAL FITTINGS AS SHOWN IN THE STANDARD WASD DETAILS. ALL SERVICE INSTALLATIONS FROM THE NEW MAIN SHALL BE INSTALLED BY THE DESIGN-BUILDER. SERVICE INSTALLATIONS FROM EXISTING MAINS, IF REQUIRED, WILL BE INSTALLED BY THE DESIGN-BUILDER IN THE PRESENCE OF M-DWASD INSPECTOR.
- THE DESIGN-BUILDER SHALL BE SURE TO TAKE PRECISE RECORDS PRIOR TO BACKFILLING OVER UTILITIES. AS-BUILTS SHALL CONFORM TO APPLICABLE STANDARDS & REQUIREMENTS STIPULATED BY M-DWASD
- ALL WORK INVOLVING PIPE & FITTINGS SHALL BE PERFORMED WITH CARE TO PREVENT DAMAGE TO THE INTERIOR WALL OR LINING OF THE PIPE. ANY PIPE SECTION WITH DAMAGED INTERIOR WALLS OR LININGS SHALL BE REPLACED BY THE DESIGN-BUILDER.
- PROVIDE 48" AND 30" MIN. COVER BELOW GRADE FOR ALL PROPOSED WATER MAIN AND SERVICE LINES, RESPECTIVELY.
- ALL OTHER PUBLIC OR PRIVATE UTILITY FACILITIES SHALL BE CONSTRUCTED AT LEAST 5 FT. FROM ANY WATER MAIN AS MEASURED FROM THE OUTSIDE BELL OF THE UTILITY PIPE.
- WHEN THE 5 FT. SEPARATION BETWEEN THE PROPOSED AND EXISTING LINE IS NOT POSSIBLE, THE CONTRACTOR SHALL HAND DIG OR EXPOSE THE WATER PIPE(S) BEFORE PROCEEDING WITH POWER EQUIPMENT EXCAVATION.
- DESIGN-BUILDER SHALL REQUEST PRE-CONSTRUCTION MEETING WITH M-DWASD UTILITIES DEVELOPMENT INSPECTION SECTION TO REVIEW PROCEDURES BEFORE ISSUANCE OF NOTICE TO PROCEED FOR CONSTRUCTION.
- THE DESIGN BUILDER SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON SITE AT ALL TIMES. THE PLANS SHALL BE MADE AVAILABLE TO THE APPLICABLE JURISDICTIONS UPON REQUEST. ALSO SEE DB 1720-1 FOR LIST OF DOCUMENTATION REQUIRED TO BE MAINTAINED ON SITE.
- UNDER NO CIRCUMSTANCES SHOULD THE DESIGN-BUILDER LEAVE EXCAVATED TRENCHES OPEN, UNCOVERED OR EXPOSED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES WHEN CONSTRUCTION IS STOPPED.

- OPEN TRENCHES SHALL BE SECURELY COVERED WITH STEEL PLATES WITH A CAPACITY OF HS-25 LOADING WHEN CONSTRUCTION IS STOPPED. MAXIMUM TRENCH LENGTH SHALL BE 600 FT WITH A MINIMUM INTERVAL OF 1200 FT BETWEEN TRENCHES.
- ANY TRENCH MORE THAN 5 FEET DEEP, SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT (SECTION 553.80-553.94) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 C.F.R.S. 1926.650 SUBPART "P" INCLUDING ALL SUBSEQUENT REVISIONS. TRENCH AND DITCHES SHALL COMPLY WITH NECESSARY SECURITY AS PER RULE 38C-43.02 FAC AND 6A-2.095 (2). DESIGN BUILDER SHALL PROVIDE APPROPRIATE CERTIFICATION DEMONSTRATING COMPLIANCE WITH THE ABOVE. SUCH CERTIFICATION SHALL BE SUBMITTED PRIOR TO CLOSE OUT AND FOR PROJECT TO BE ACCEPTED AS COMPLETE.
- WHEN SHEETING, SHORING, OR WATERING IS NECESSARY, THE DESIGN BUILDER SHALL MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ADJACENT BUILDING, STRUCTURES OR PROPERTY ELEMENTS/COMPONENTS.
- ALL EXISTING WATER MAINS IMPACTED BY THIS PROJECT AND ALL PURPOSED WATER MAIN AND FITTINGS ARE TO BE RESTRAINED AS SPECIFIED ON PLANS. DESIGN BUILDER SHALL USE MEGALUGS OR APPROVED EQUAL.
- THE MAXIMUM ALLOWABLE DEFLECTION FOR DUCTILE IRON PIPE IS 2.5 DEGREES (USE SYMBOL) OR HALF OF THAT ALLOWED BY THE MANUFACTURER
- ALL REQUIRED PERMITS SHALL BE SECURED BY THE DESIGN BUILDER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE DESIGN BUILDER SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON SITE AT ALL TIMES. THE PLANS SHALL BE MADE AVAILABLE TO THE APPLICABLE JURISDICTIONS UPON REQUEST.
- TAPPING SLEEVE CONNECTIONS TO MD-WASD OWNED MAINS SHALL BE DONE BY MD-WASD FORCES ONLY. ALL COST FOR DEPARTMENT SERVICES SHALL BE BORNE BY THE DESIGN BUILDER.

HEALTH DEPARTMENT NOTES (NOT PART OF M-DWASD NOTES OR APPROVAL)

WATER MAIN HORIZONTAL SEPARATION:

- SEPARATIONS SHALL BE MEASURED FROM OUTSIDE EDGE TO OUTSIDE EDGE BETWEEN WATER MAIN, STORM SEWER, STORMWATER FORCE MAIN, OR RECLAIMED WATER MAIN. SHALL BE 3 FEET MINIMUM.
- SEPARATION BETWEEN WATER MAIN AND VACUUM TYPE SEWER SHALL BE 10 FEET PREFERABLY AND 3 FEET MINIMUM.
- SEPARATION BETWEEN WATER MAIN GRAVITY OR PRESSURE SANITARY SEWER, WASTEWATER FORCE MAIN OR RECLAIMED WATER MAIN SHALL BE 10 FEET PREFERABLY AND 6 FEET MINIMUM. SEPARATION MAY BE REDUCED TO 3 FEET WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF SEWER MAIN.
- SEPARATION BETWEEN WATER MAIN AND ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM SHALL BE 10 FEET.

WATER MAIN VERTICAL SEPARATION:

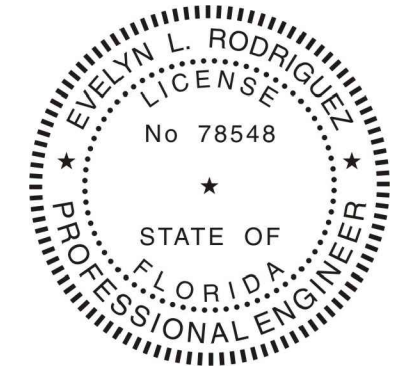
- SEPARATION BETWEEN WATER MAIN AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWER SHALL BE 12 INCHES MINIMUM WHEN CROSSING BELOW. A SEPARATION OF 6 INCHES IS ALLOWED WHEN CROSSING ABOVE ALTHOUGH 12 INCHES IS PREFERRED.
- SEPARATION BETWEEN PRESSURE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN OR RECLAIMED WATER SHALL BE 12 INCHES MINIMUM WHEN CROSSING ABOVE OR BELOW.
 - NOTE: CENTER 1-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY, ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY SEWER, PRESSURE SEWER, WASTEWATER FORCE MAIN OR RECLAIMED WATER.

APPLICABLE CODES AND STANDARD SPECIFICATIONS

- MIAMI-DADE WATER AND SEWER DEPARTMENT DESIGN AND CONSTRUCTION STANDARDS (CURRENT EDITION).
- MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT AND CONSTRUCTION MANUAL.
- MIAMI-DADE REGULATORY AND ECONOMIC RESOURCES DEPARTMENT - STANDARD REQUIREMENTS.
- FLORIDA ADMINISTRATIVE CODE.
- FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) REQUIREMENTS.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.

UTILITY PROVIDERS AS IDENTIFIED BY SUNSHINE STATE ONE CALL OF FLORIDA (811)

FPL FIBERNET LLC DANNY HASKETT 9250 W FLAGLER ST MIAMI, FL 33174 (305) 552-2931	MIAMI DADE WATER SEWER LAZARO GUERRA, P.E. 3575 S LEJEUNE RD MIAMI, FL 33133 (786) 268-5220	WINDSTREAM DAMAGE PREVENTION GAIL SCHMITZ 2121 W PROSPECT RD TAMARAC, FL 33309 (954) 217-6754	HIGH TECH ENGINEERING LISA PRIDEMORE 13284 SW 120 ST MIAMI, FL 33186 (786) 345-0991
FPL FIBERNET LLC SEYED HAJASSADOLLAH 158 MCARTHUR CAUSEWAY MIAMI BEACH, FL 33139 (305) 228-5290	COMCAST CABLE LEONARD MAXWELL-NEWBOLD 2601 SW 145TH AVE MIRAMAR, FL 33027 (954) 447-8405	AT&T DISTRIBUTION STEVE MASSIE 9101 SW 24 ST, 1ST FLOOR MIAMI, FL 33165 (305) 222-8745	XO COMMUNICATIONS ANTHONY KOWALESKI 16563 NW 15 AVE MIAMI, FL 33169 (305) 356-3160
ATLANTIC BROADBAND DAVID MCBRIDE 1681 KENNEDY CAUSEWAY NORTH BAY VILLAGE, FL 33141 (305) 861-8069	FPL (DISTRIBUTION) TRACY STERN 2900 CATHERINE ST PALATKA, FL 32177 (305) 868-9554	AMERICAN TRAFFIC SOLUTIONS ROBERT B. ZAITOONI 7681 E GRAY RD SCOTTSDALE, AZ 85260 (480) 443-7000	CENTURY LINK QUEST COMMUNICATIONS COMPANY GEORGE MCELVAIN 700 W MINERAL AVENUE LITTLETON, CO 80120 (305) 992-9931
HOTWIRE COMMUNICATIONS PHIL GALLUB 10360 USA TODAY WAY, MIRAMAR, FL 33025 (800) 355-5668	FIBERLIGHT LLC CHRIS PANCIONE 792 S MILITARY TRAIL DEERFIELD BEACH, FL 33442 (561) 596-2559	TECO PEOPLES GAS - S. FLORIDA YVONNE GOLDMAN 5101 NW 21ST AVE, SUITE 460 FT LAUDERDALE, FL 33309 (954) 453-0824	VERIZON MCI JOHN MCNEIL 210 RECKER HIGHWAY AUBURNDALE, FL 33823 (863) 965-6438
LEVEL 3 COMMUNICATIONS GLOBAL FIELD SERVICES DAVID MORRIS 2121 W PROSPECT RD TAMARAC, FL 33309 (954) 217-6754			



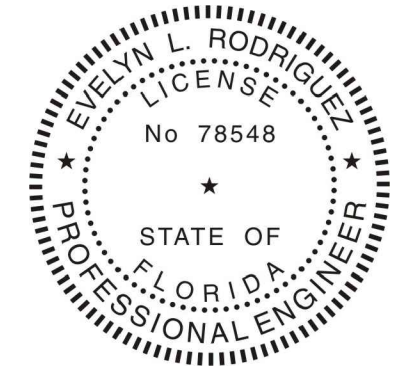
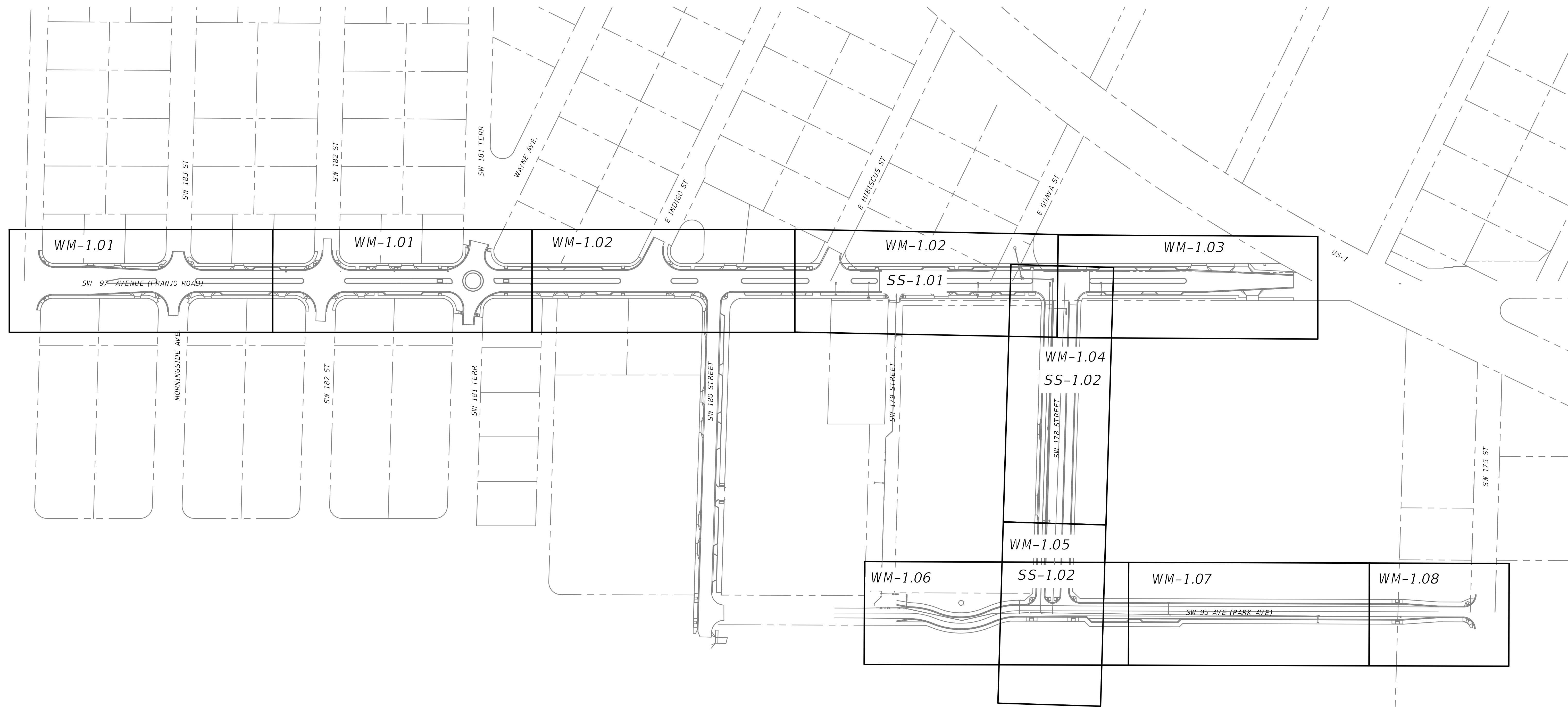
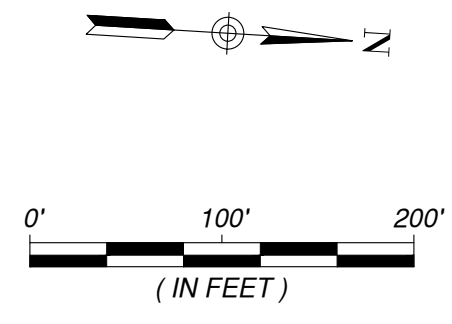
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 EVELYN L. RODRIGUEZ, P.E.
 STATE OF FLORIDA - LICENSE NO. 78548

M-DWASD AGREEMENT ID: 30104

REVISIONS				EVELYN L. RODRIGUEZ, P.E. P.E. LICENSE NUMBER 78548 EAC CONSULTING, INC. 5959 BLUE LAGOON DRIVE, SUITE 410 MIAMI, FL 33126 CERTIFICATE OF AUTHORIZATION 7011	VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT			GENERAL NOTES (SHEET 1 OF 2)	SHEET NO. G-1.01
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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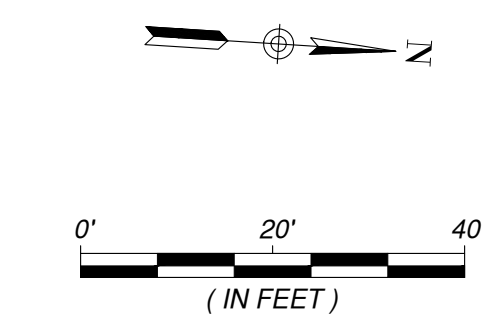
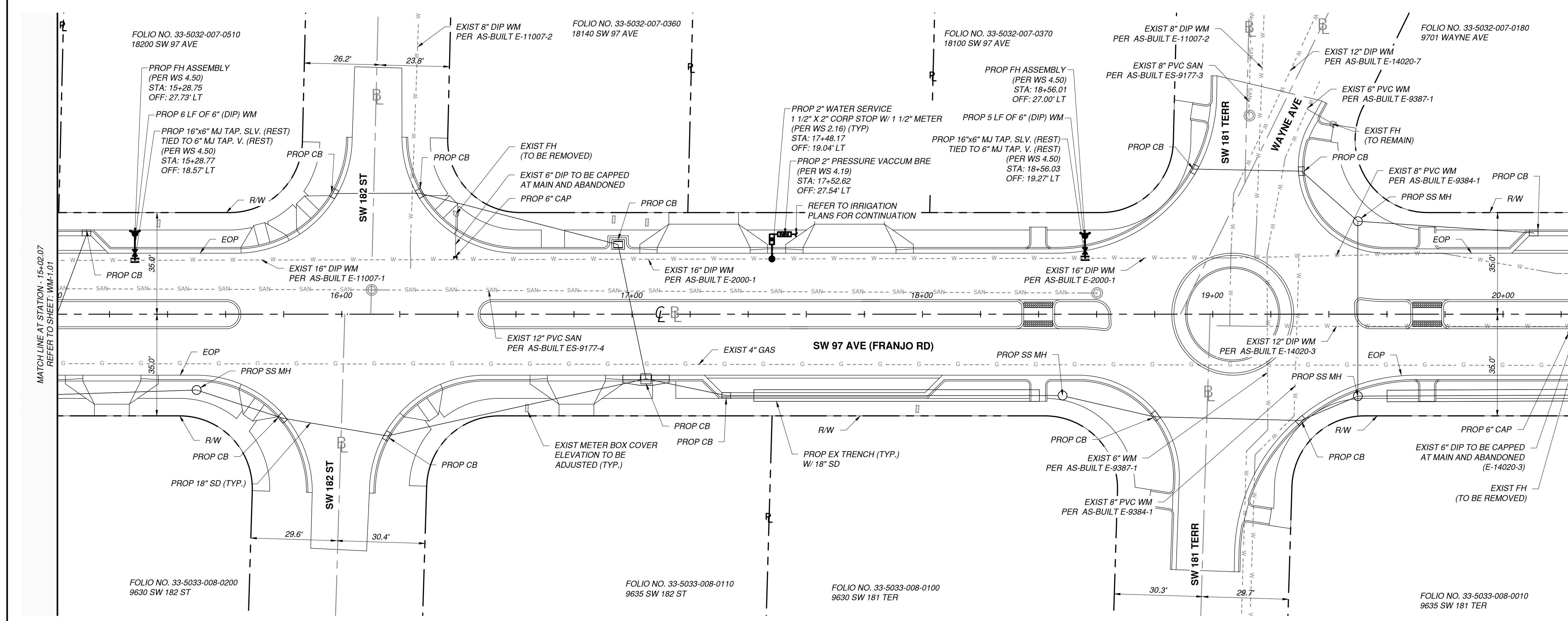
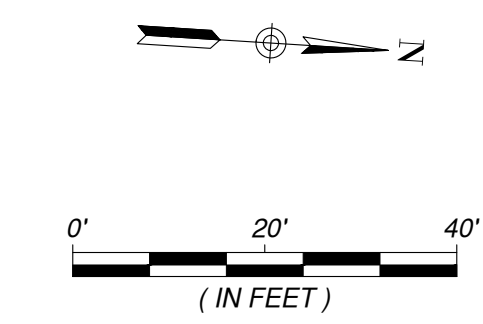
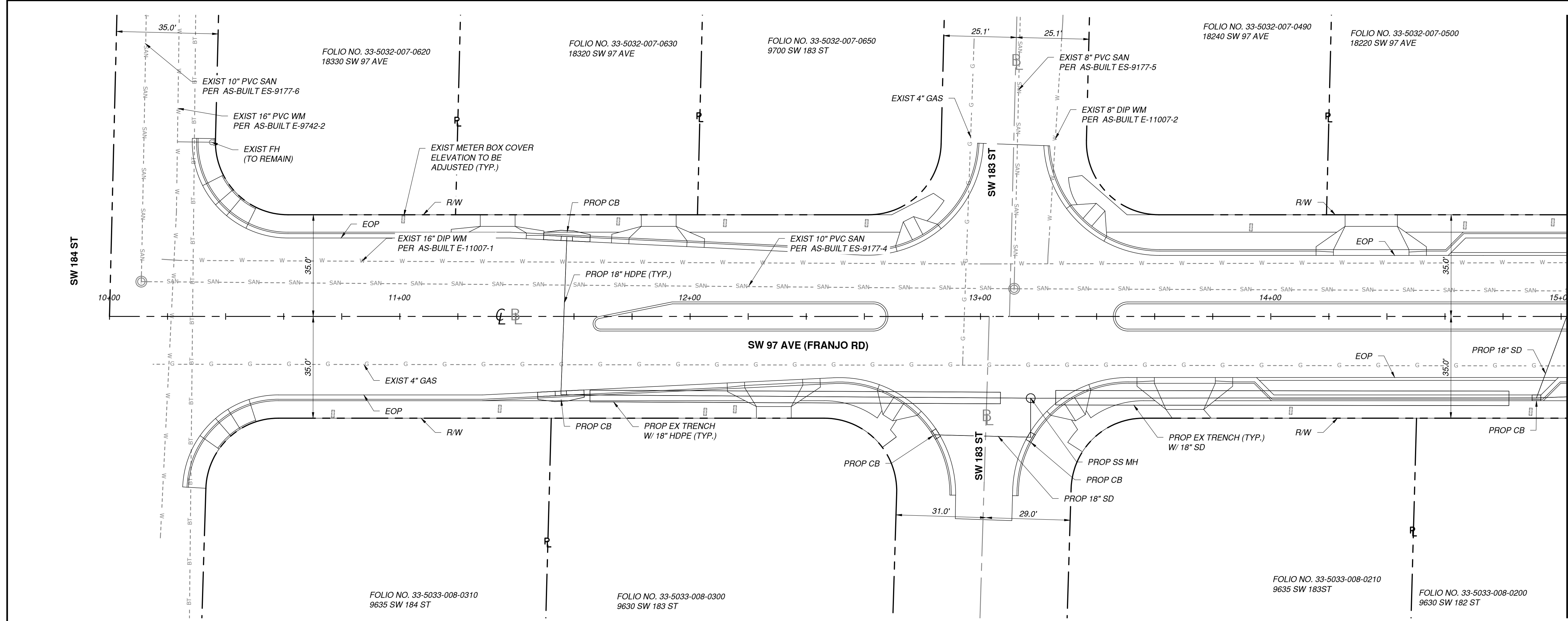


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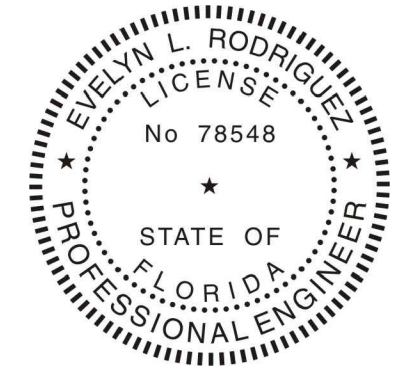
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 STATE OF FLORIDA - LICENSE NO. 78548
 M-DWASD AGREEMENT ID: 30104

REVISIONS				EVELYN L. RODRIGUEZ, P.E. P.E. LICENSE NUMBER 78548 EAC CONSULTING, INC. 5959 BLUE LAGOON DRIVE, SUITE 410 MIAMI, FL 33126 CERTIFICATE OF AUTHORIZATION 7011	VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT			WATERMAIN AND SANITARY SEWER LAYOUT PLAN	SHEET NO. WM-0.00
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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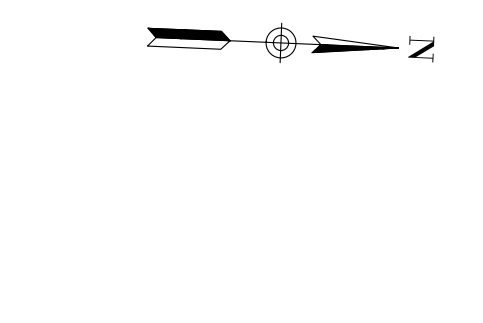
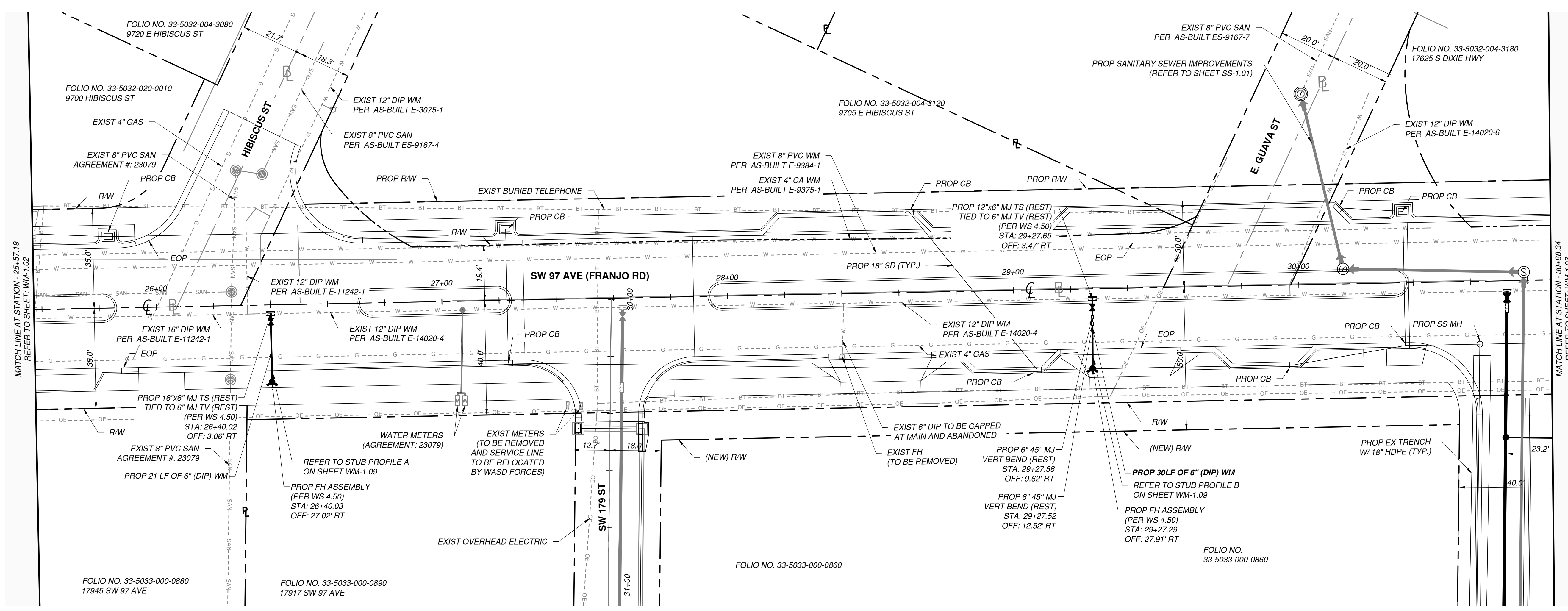
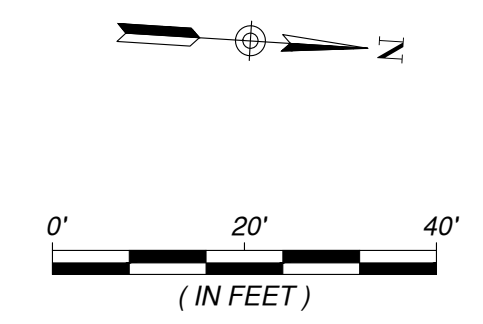
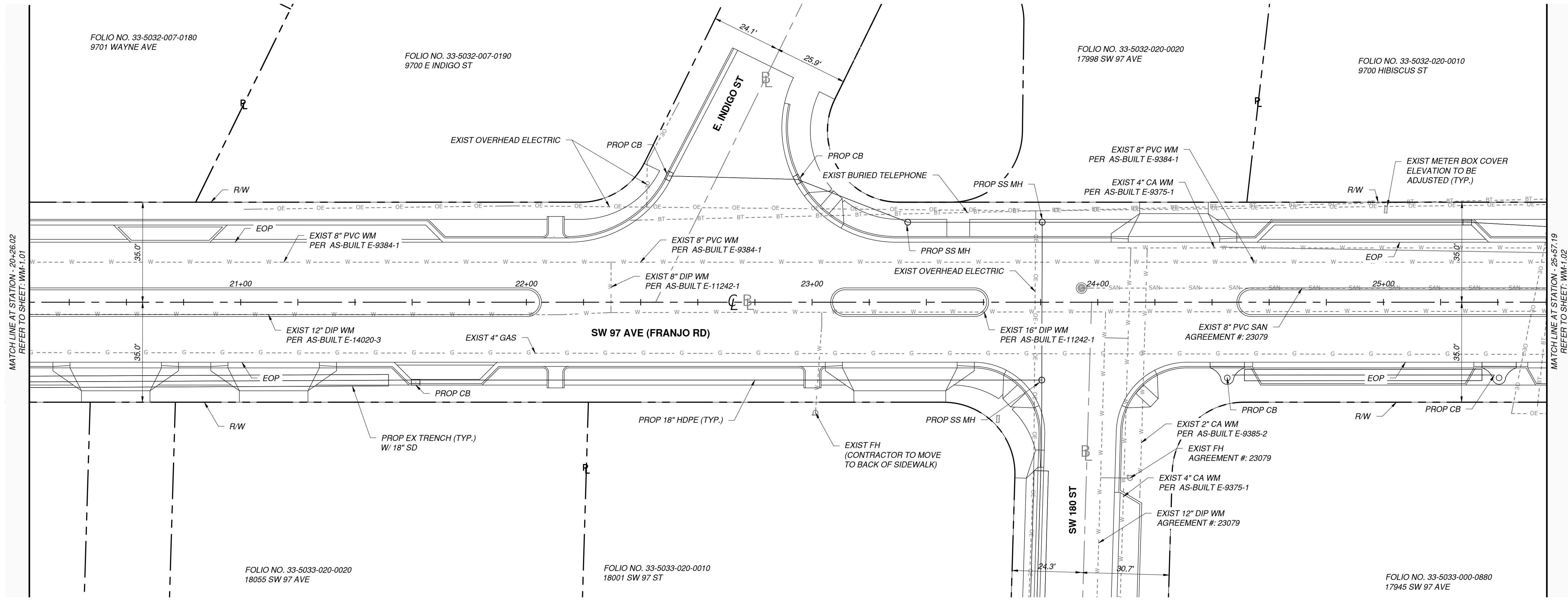
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EVELYN L. RODRIGUEZ, P.E.
P.E. LICENSE NUMBER 78548
EAC CONSULTING, INC.
5959 BLUE LAGOON DRIVE, SUITE 410
MIAMI, FL 33126
CERTIFICATE OF AUTHORIZATION 7011

VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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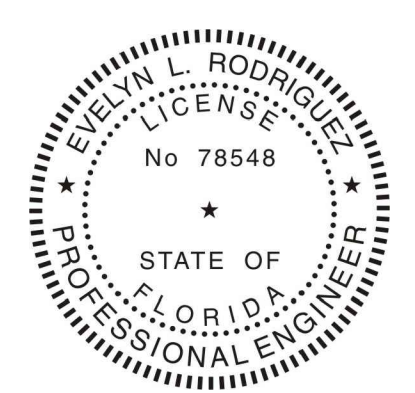
FRANJO ROAD WATER MAIN IMPROVEMENT PLAN (SHEET 1 OF 3)

SHEET NO.
WM-1.01



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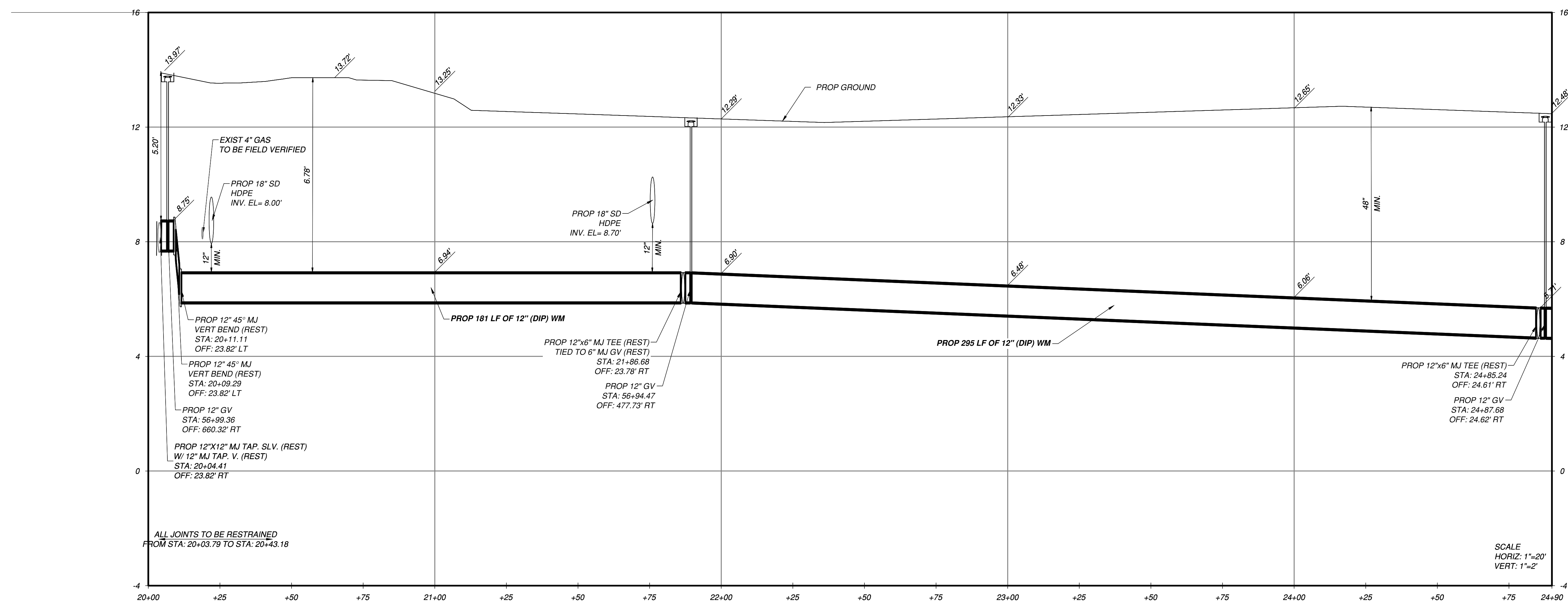
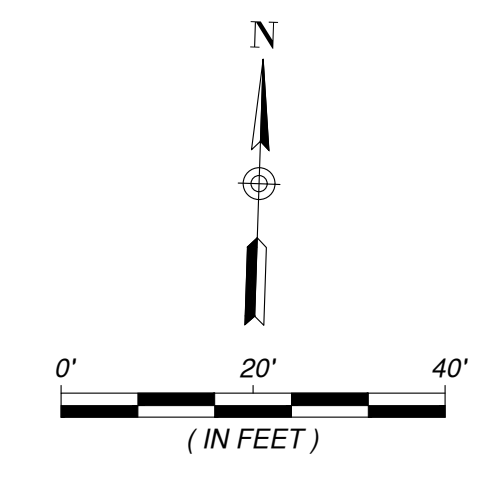
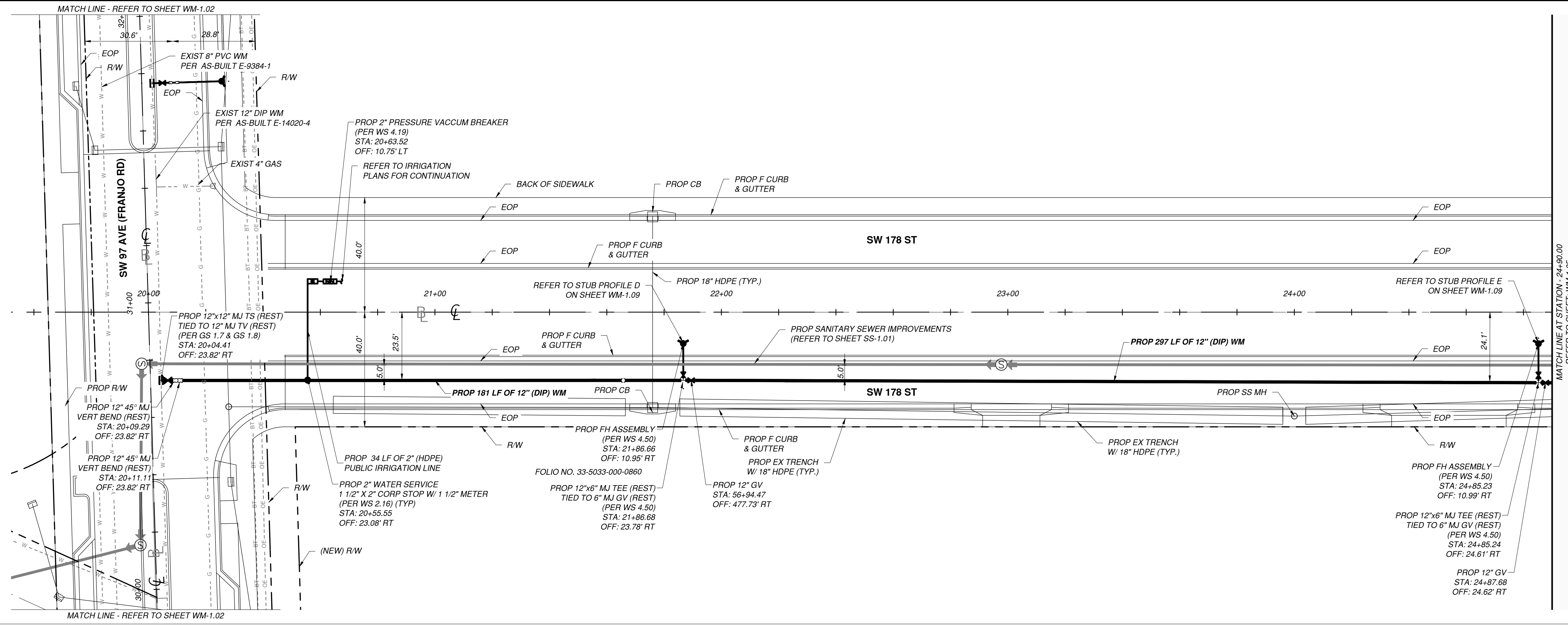
REVISIONS			
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5959 BLUE LAGOON DRIVE, SUITE 410
MIAMI, FL 33126
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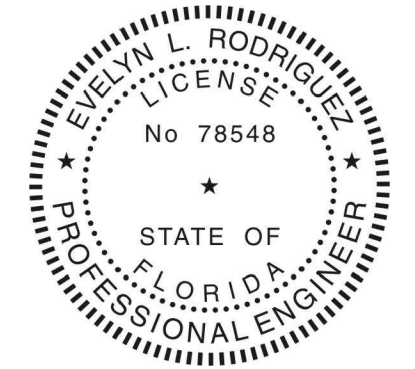
VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	MIAMI-DADE	N/A

**FRANJO ROAD WATER MAIN
IMPROVEMENT PLAN (SHEET 2
OF 3)**

SHEET NO.
WM-1.02



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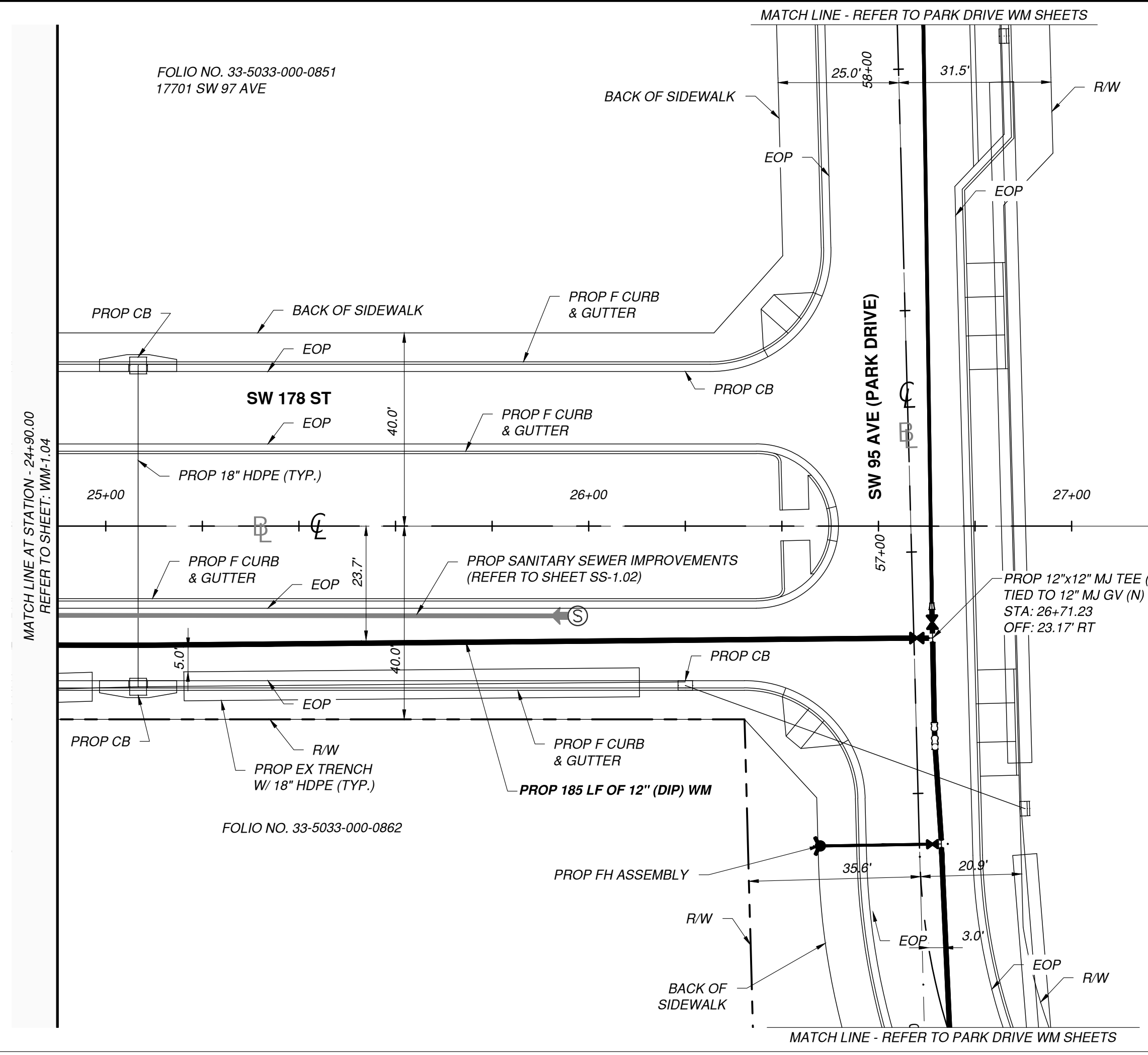
REVISIONS	
DATE	DESCRIPTION

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EAC CONSULTING, INC.
5959 BLUE LAGOON DRIVE, SUITE 410
MIAMI, FL 33126
CERTIFICATE OF AUTHORIZATION 7011

VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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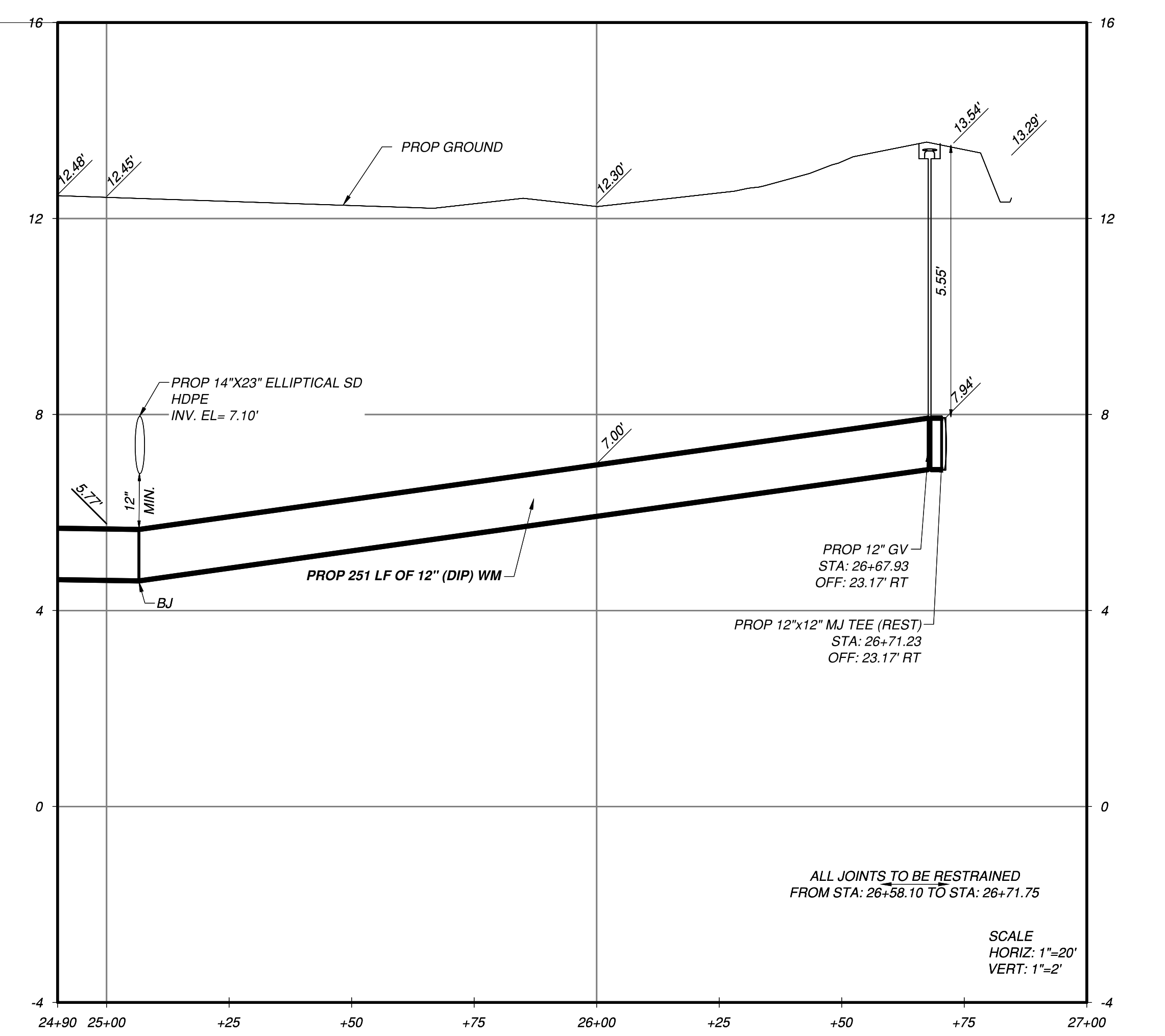
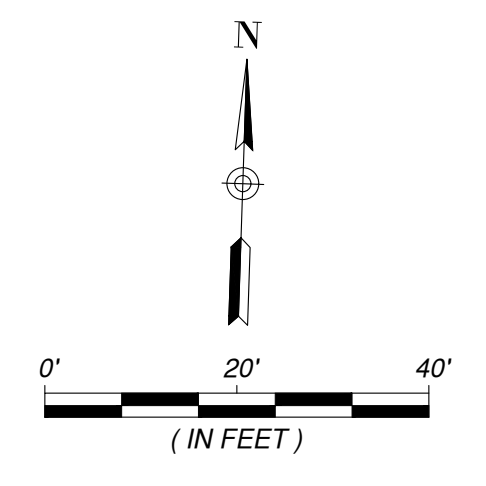
SW 178 STREET WATERMAIN
PLAN & PROFILE (SHEET 1 OF 2)

SHEET NO.
WM-1.04

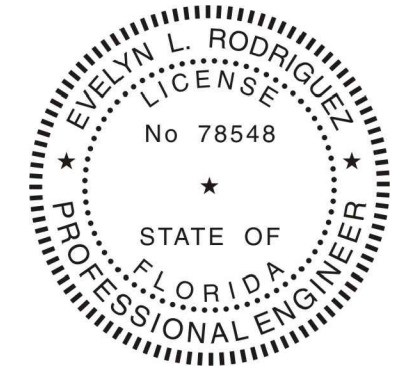


FOLIO NO. 33-5033-000-0850

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STATE OF FLORIDA - LICENSE NO. 78548

M-DWASD AGREEMENT ID: 30104

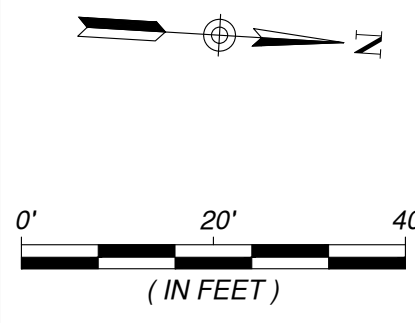
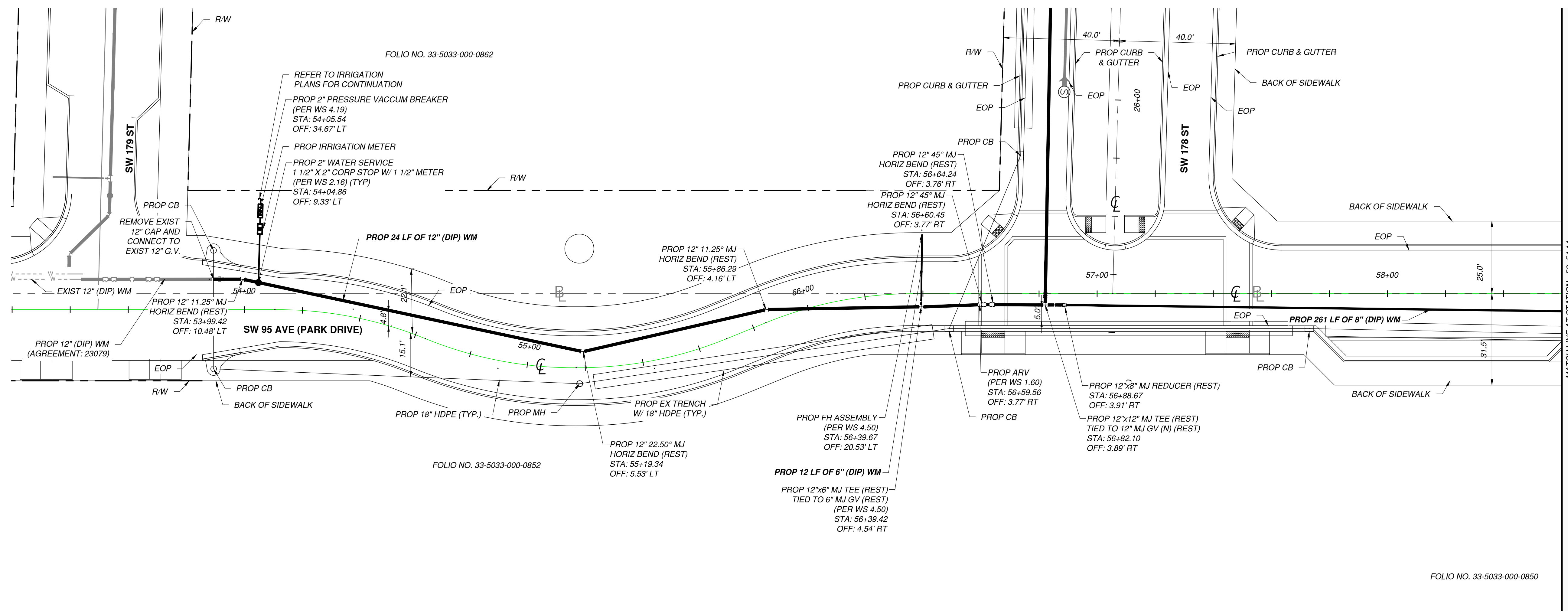
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DATE	DESCRIPTION	DATE	DESCRIPTION

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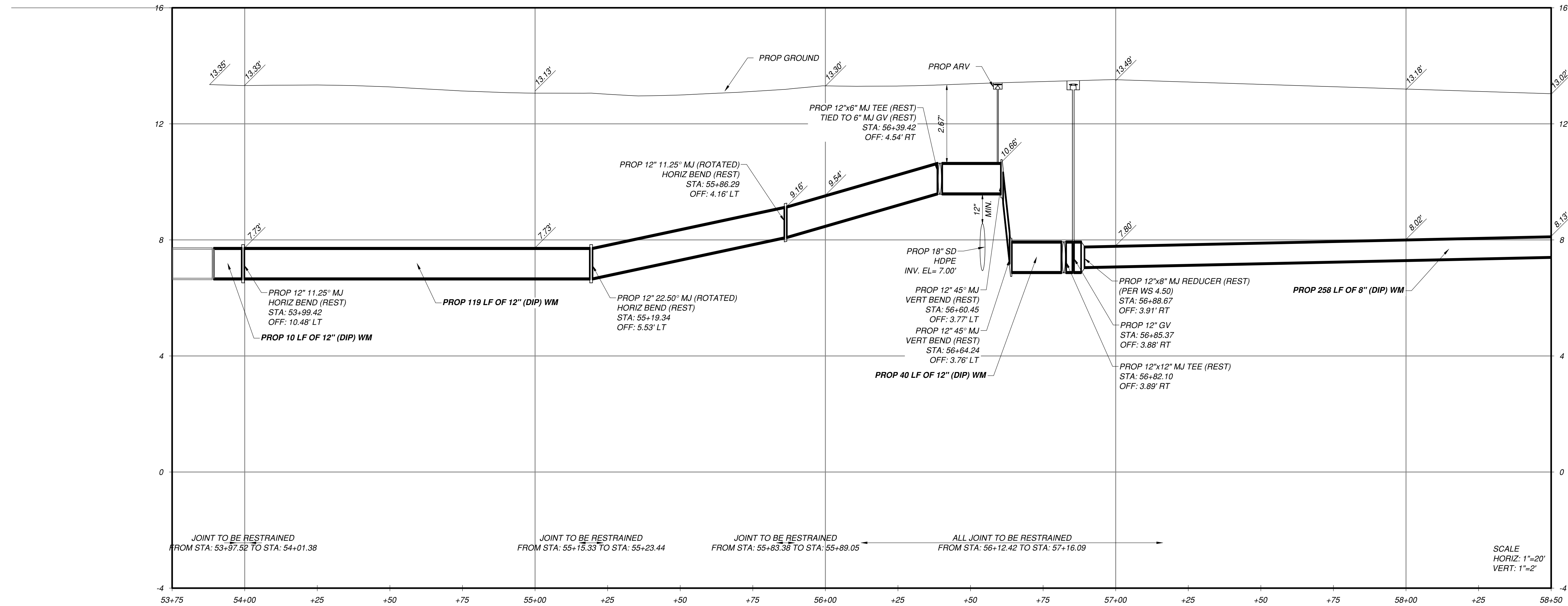
VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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**SW 178 STREET WATERMAIN
PLAN & PROFILE (SHEET 2 OF 2)**

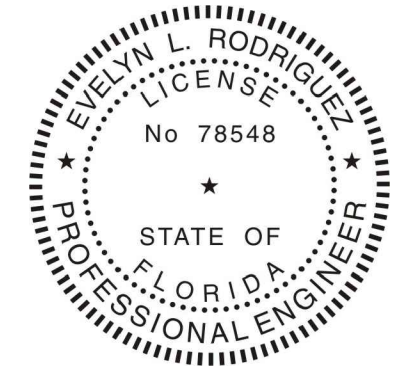
SHEET NO.
WM-1.05



FOLIO NO. 33-5033-000-0850



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

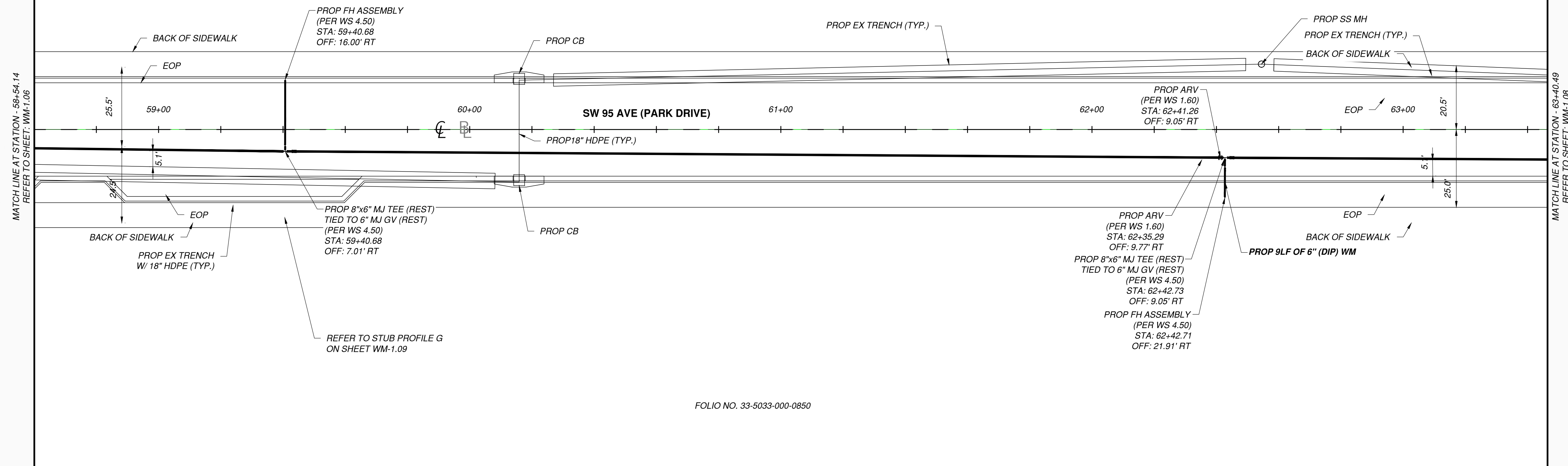
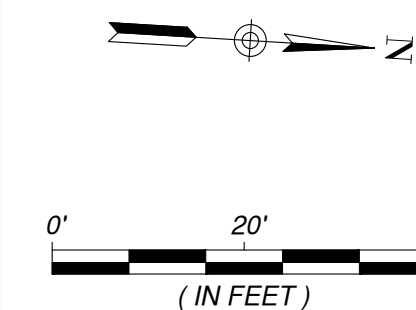
EVELYN L. RODRIGUEZ, P.E.
P.E. LICENSE NUMBER 78548
EAC CONSULTING, INC.
5959 BLUE LAGOON DRIVE, SUITE 410
MIAMI, FL 33126
CERTIFICATE OF AUTHORIZATION 7011

VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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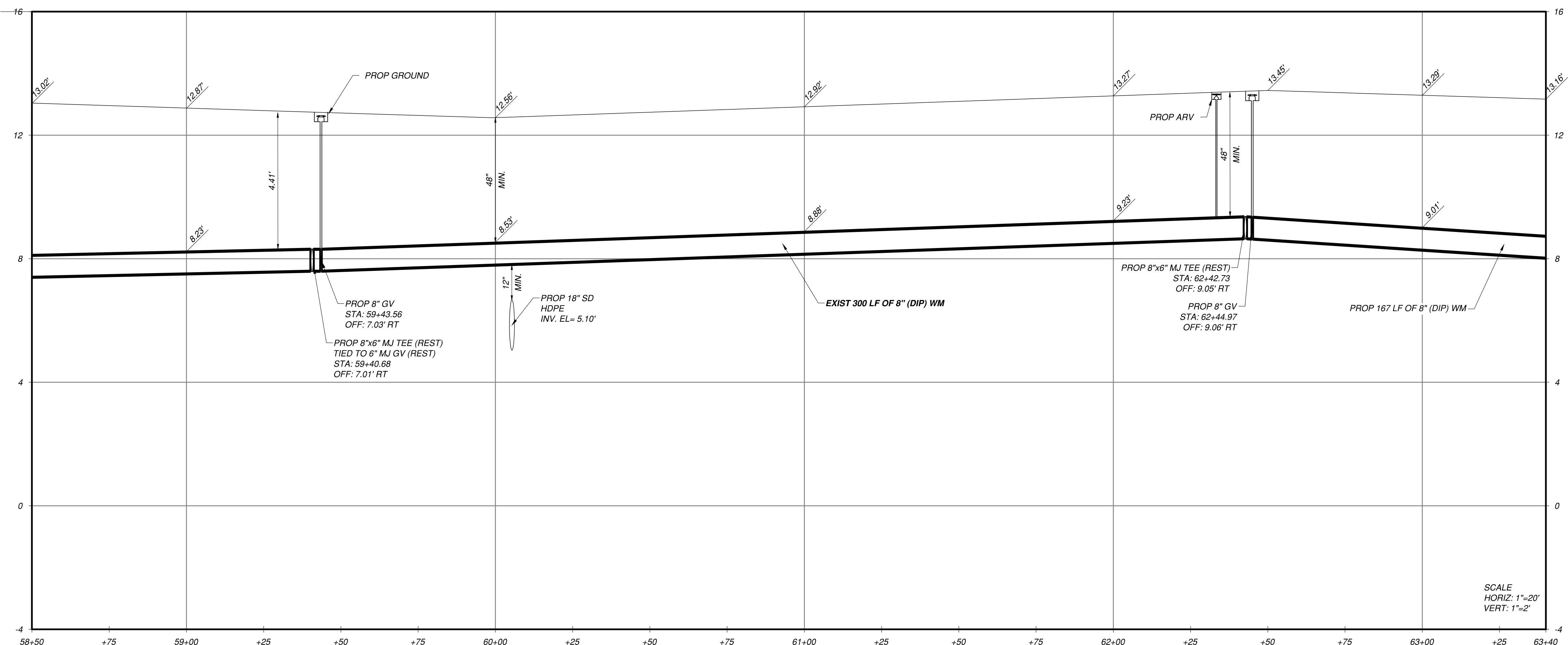
**SW 95 AVENUE WATERMAIN
PLAN & PROFILE (SHEET 1 OF 3)**

SHEET
NO.
WM-1.06

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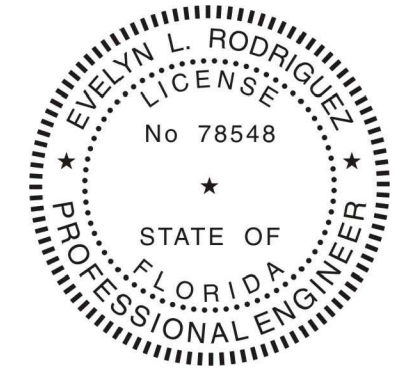


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SCALE
HORIZ: 1"=20'
VERT: 1"=2'

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STATE OF FLORIDA - LICENSE NO. 78548

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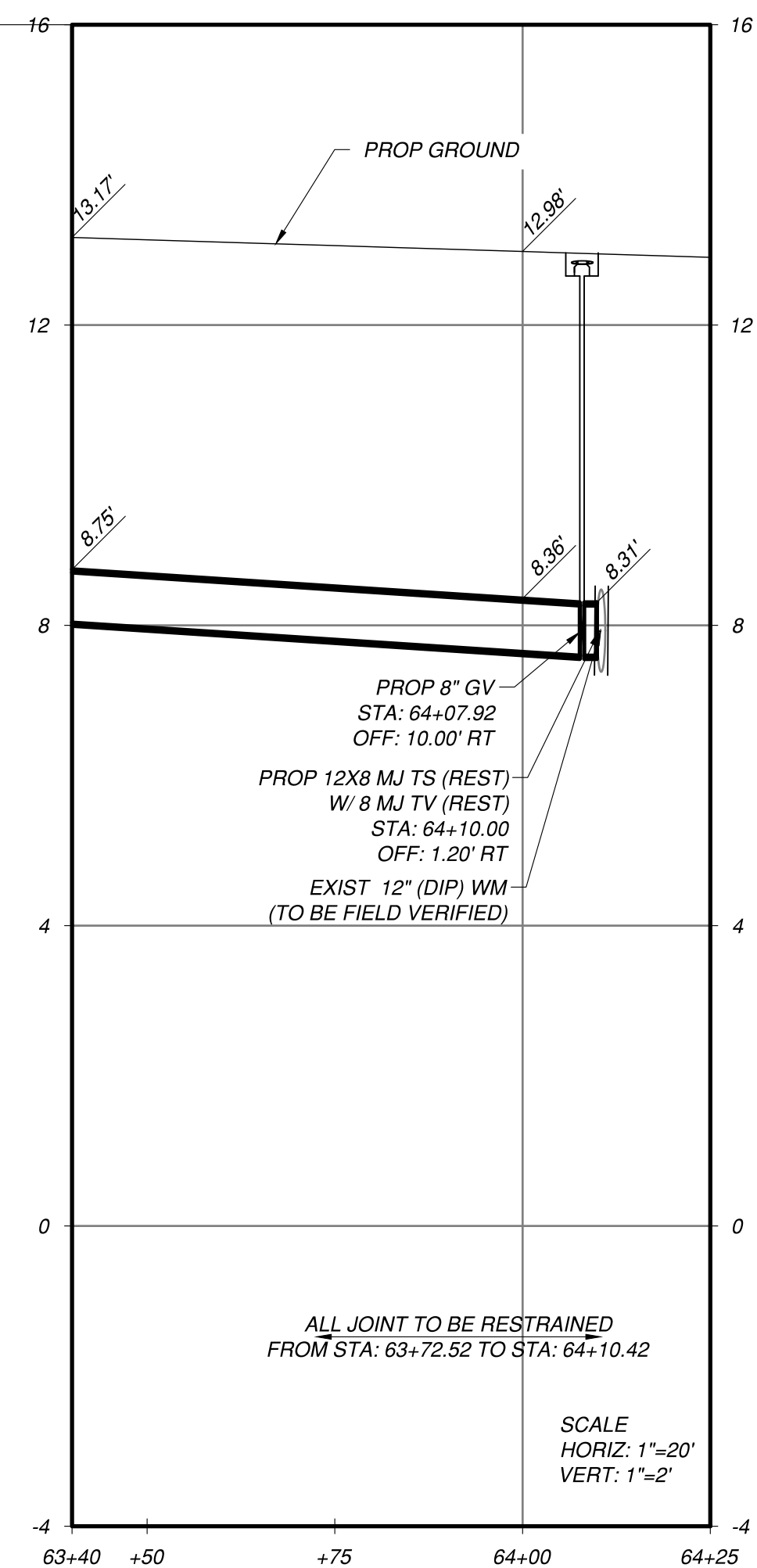
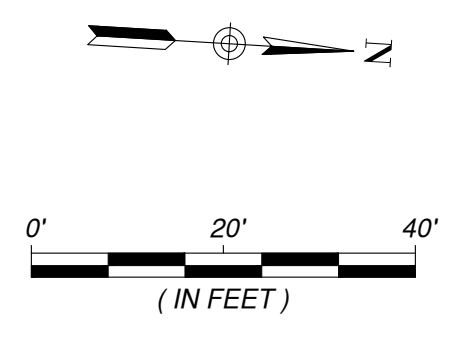
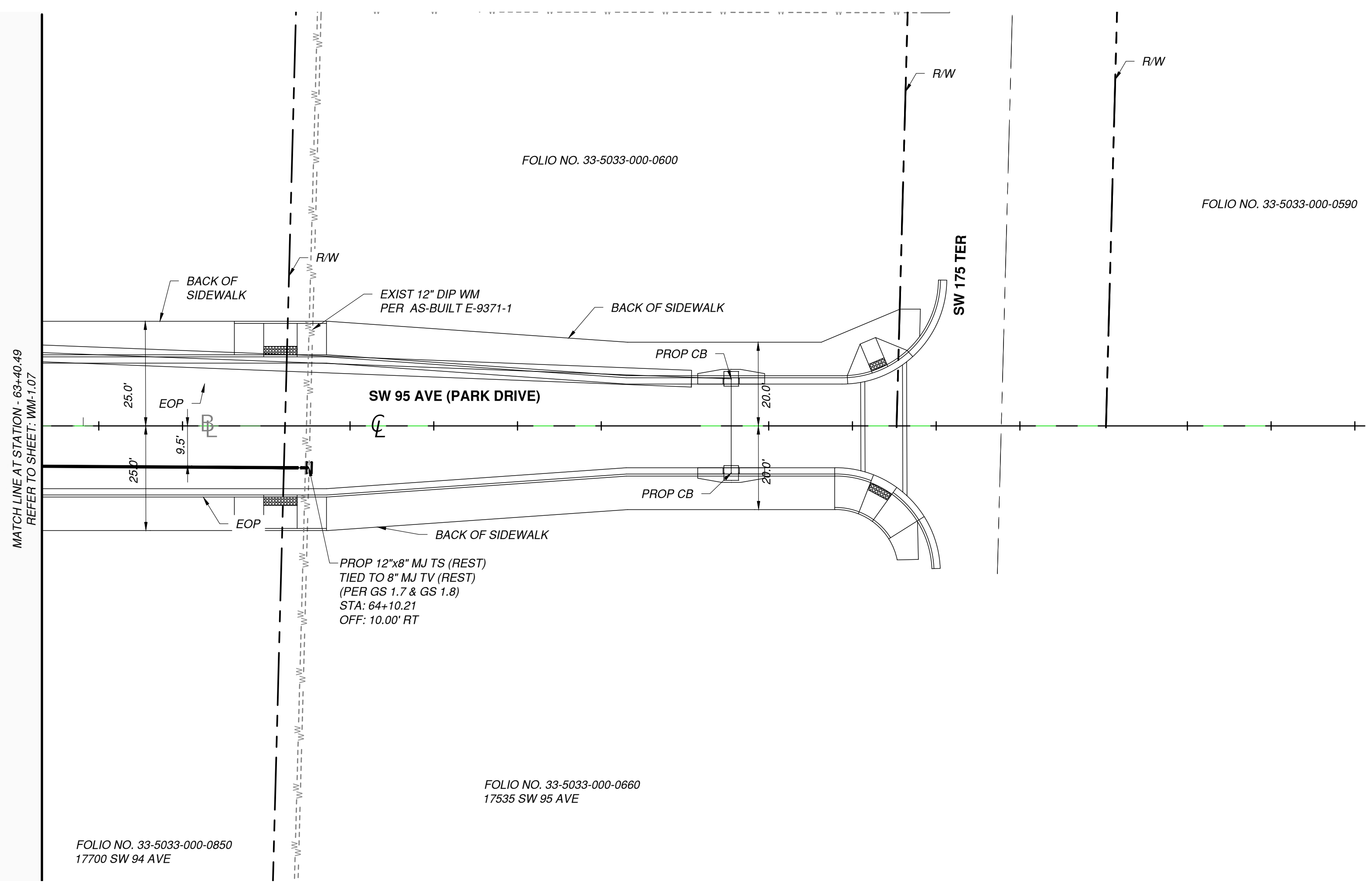
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EVELYN L. RODRIGUEZ, P.E.
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EAC CONSULTING, INC.
5959 BLUE LAGOON DRIVE, SUITE 410
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CERTIFICATE OF AUTHORIZATION 7011

VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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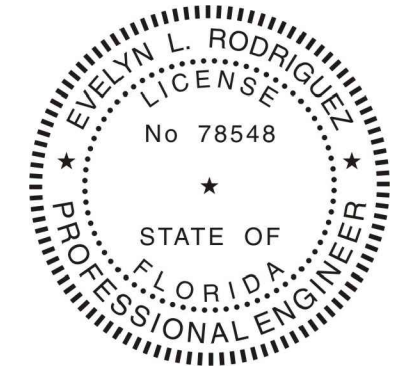
**SW 95 AVENUE WATERMAIN
PLAN & PROFILE (SHEET 2 OF 3)**

SHEET
NO.
WM-1.07



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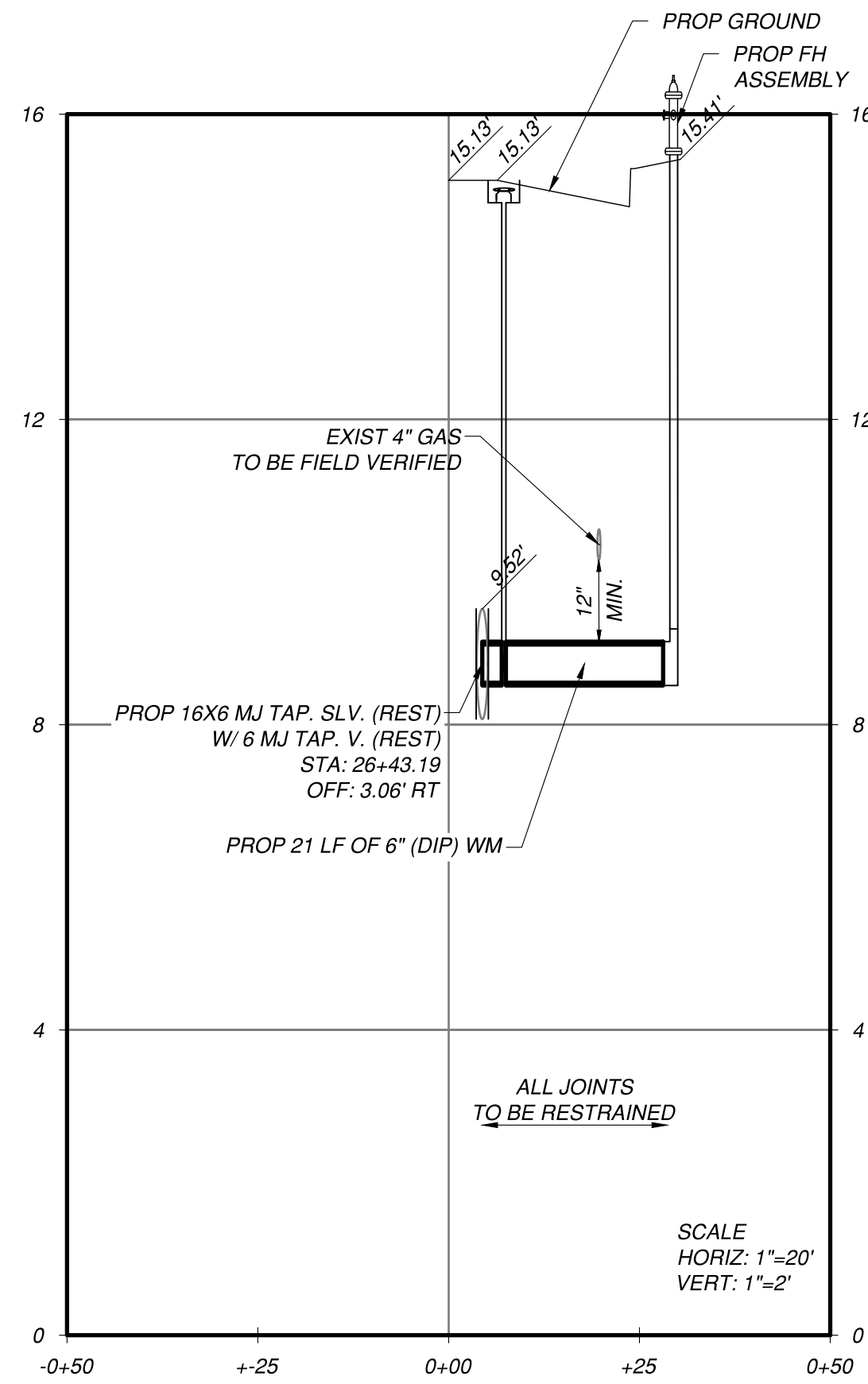
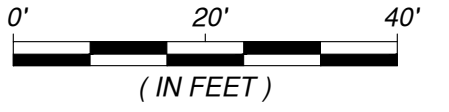


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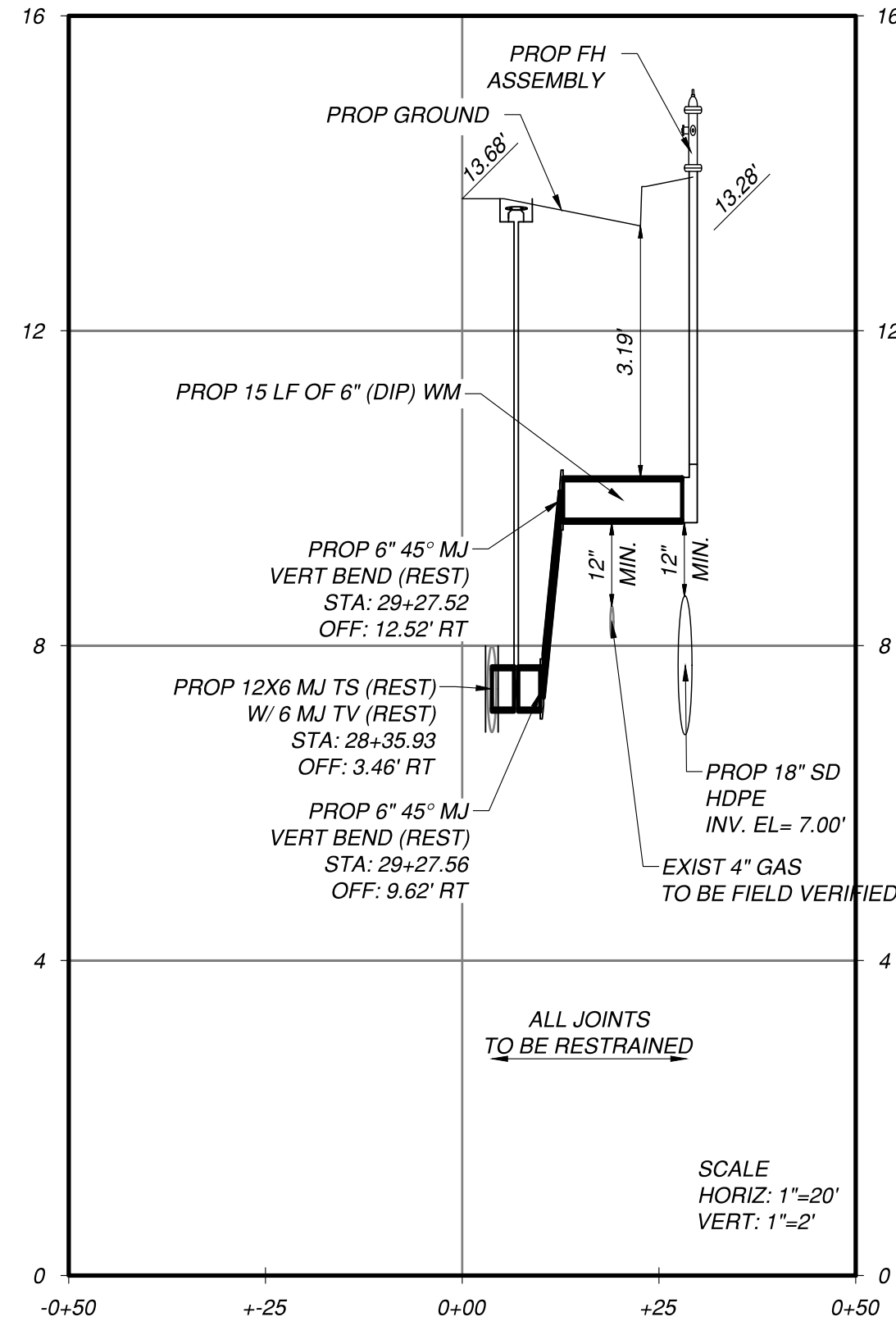
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REVISIONS				VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT			SW 95 AVENUE WATERMAIN PLAN & PROFILE (SHEET 3 OF 3)	SHEET NO. WM-1.08
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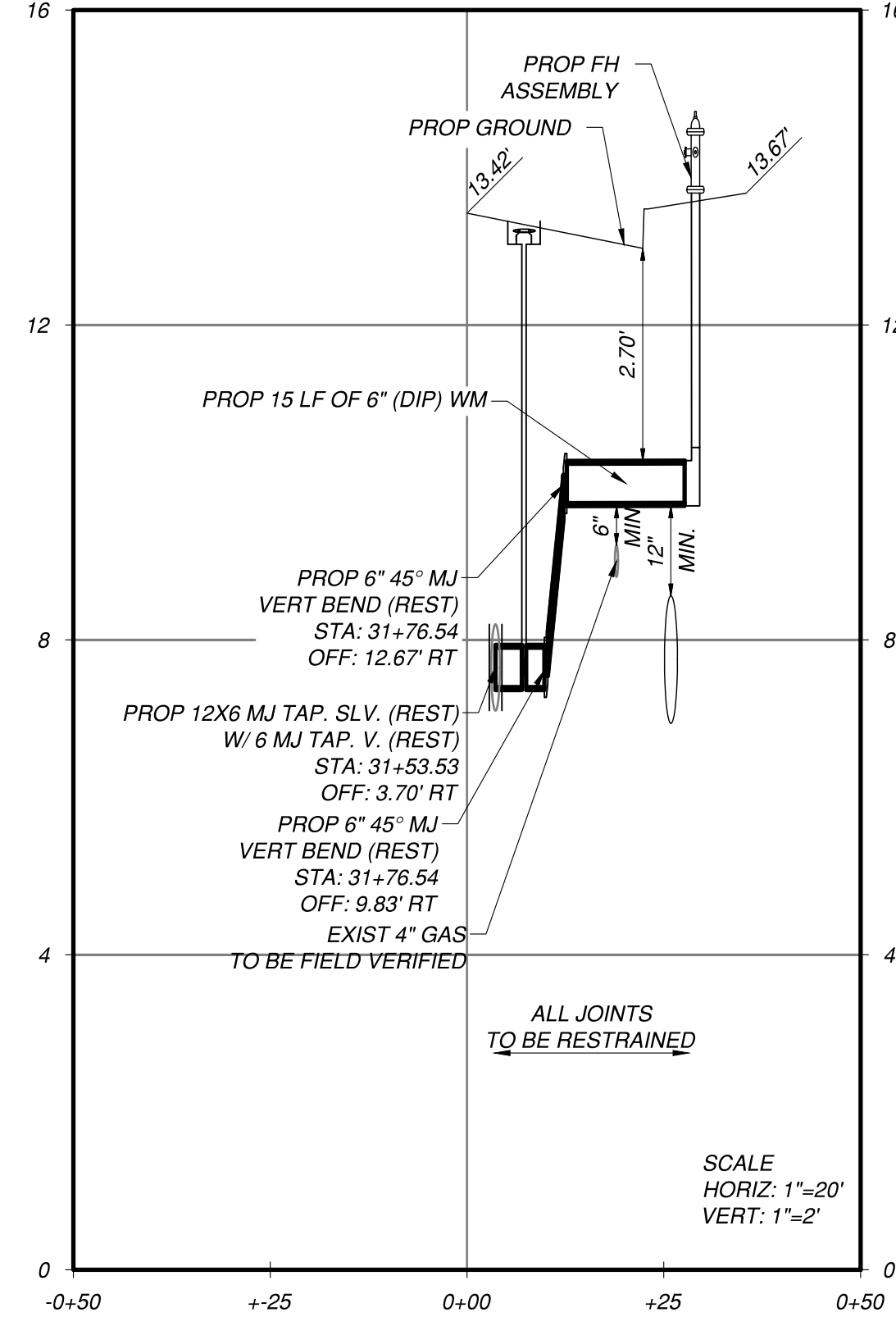
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5959 BLUE LAGOON DRIVE, SUITE 410
MIAMI, FL 33126
CERTIFICATE OF AUTHORIZATION 7011



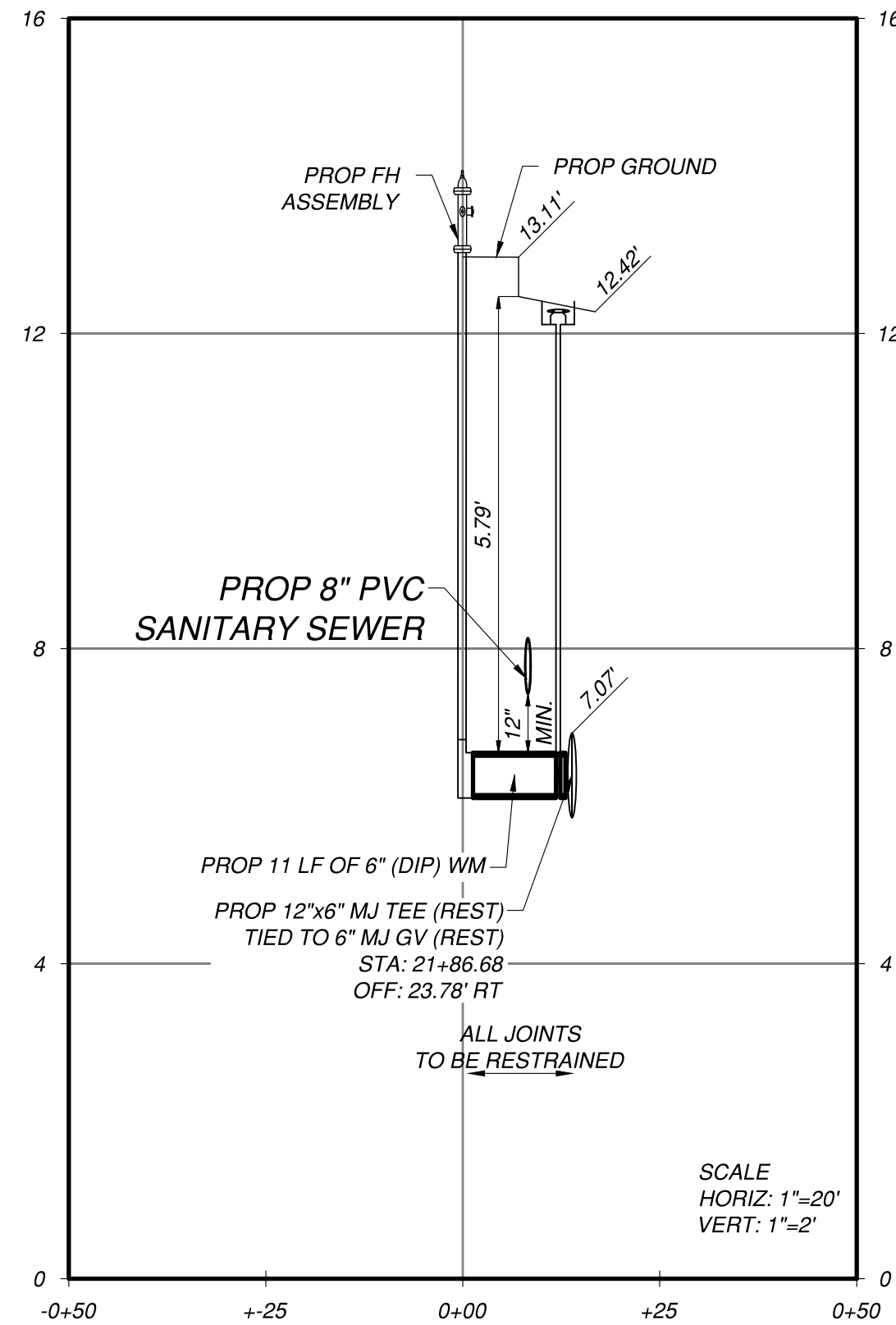
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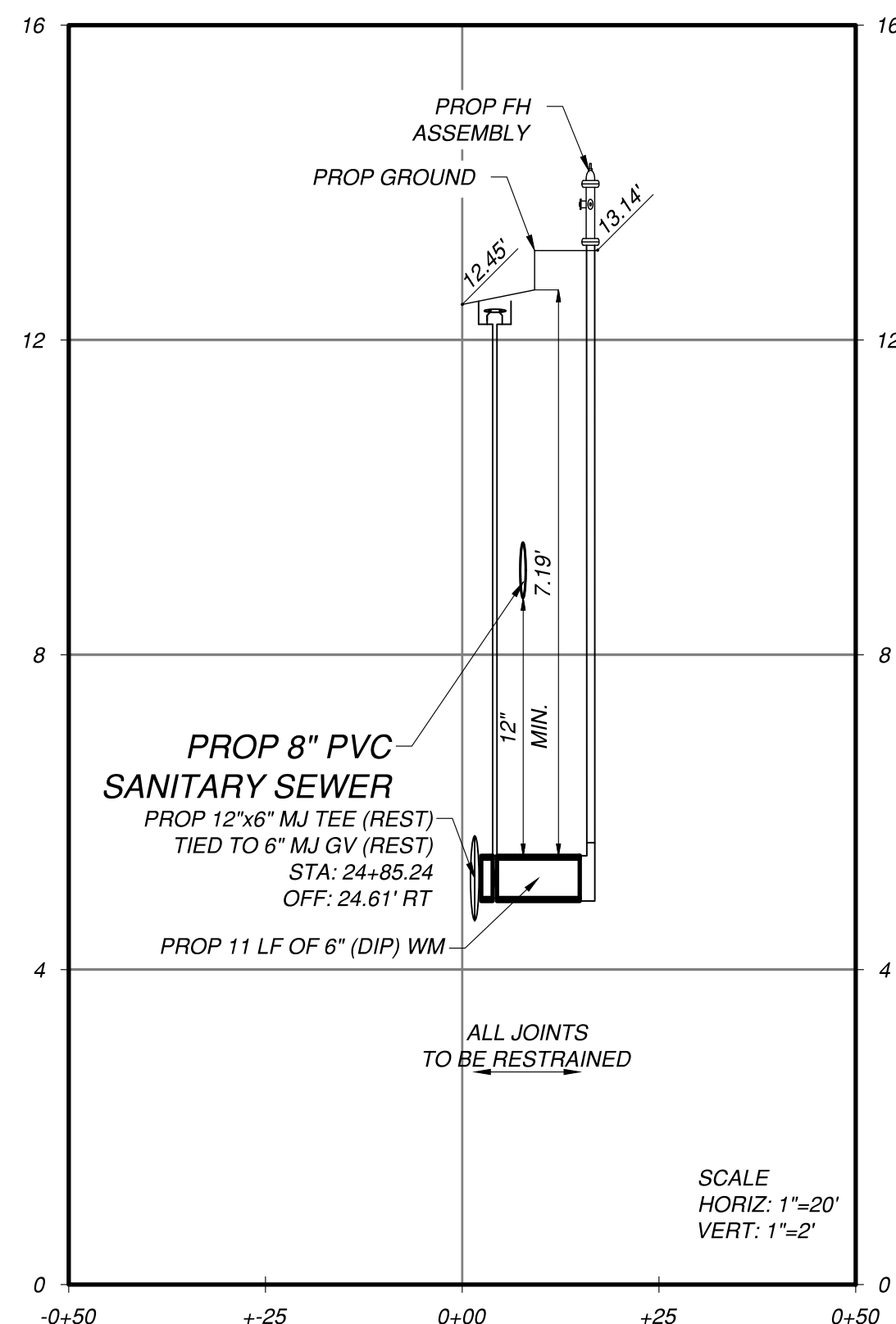
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STUB PROFILE C
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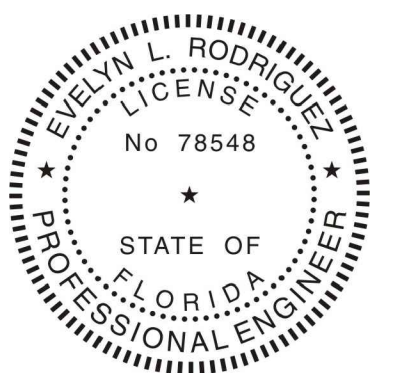
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STUB PROFILE E
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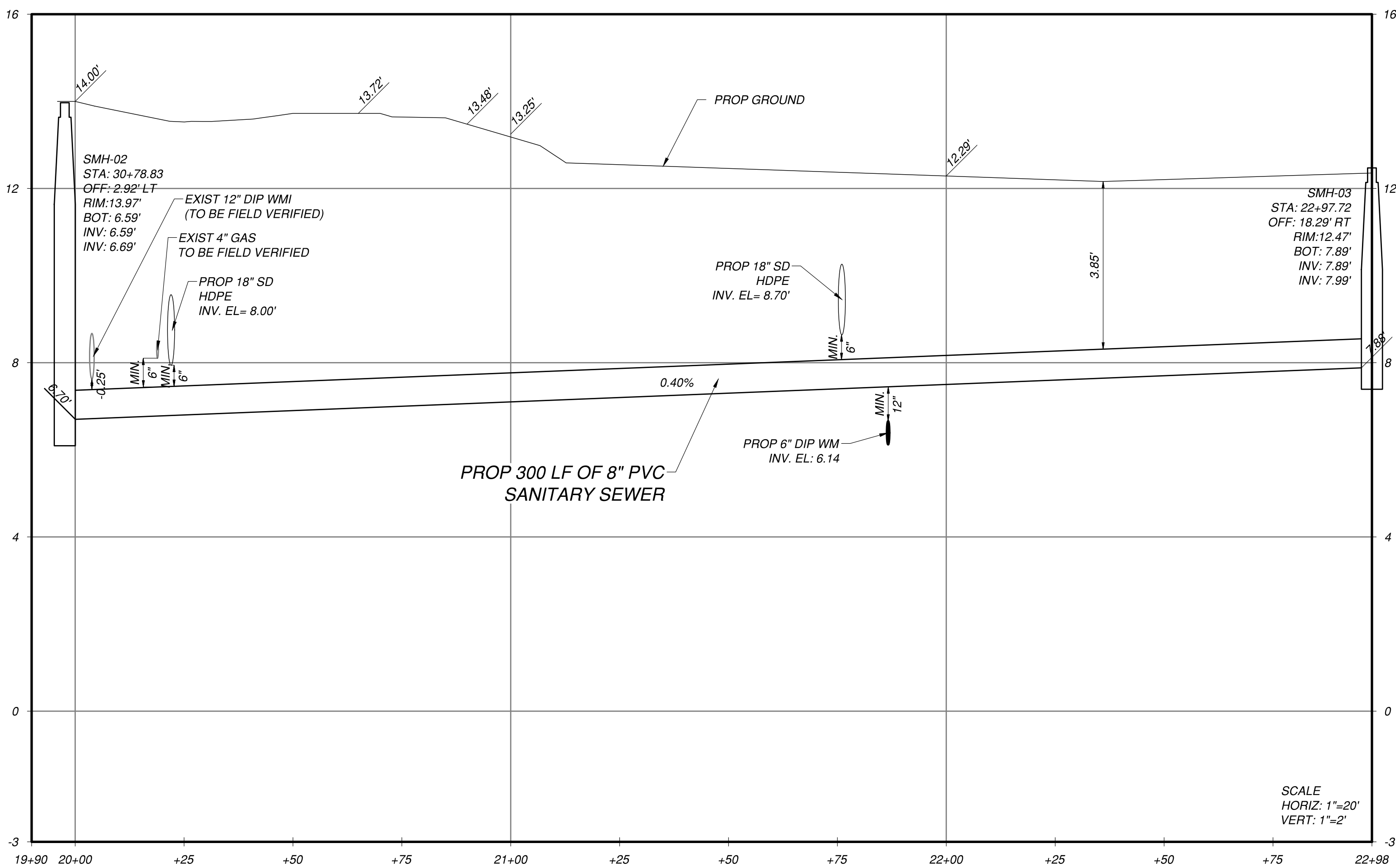
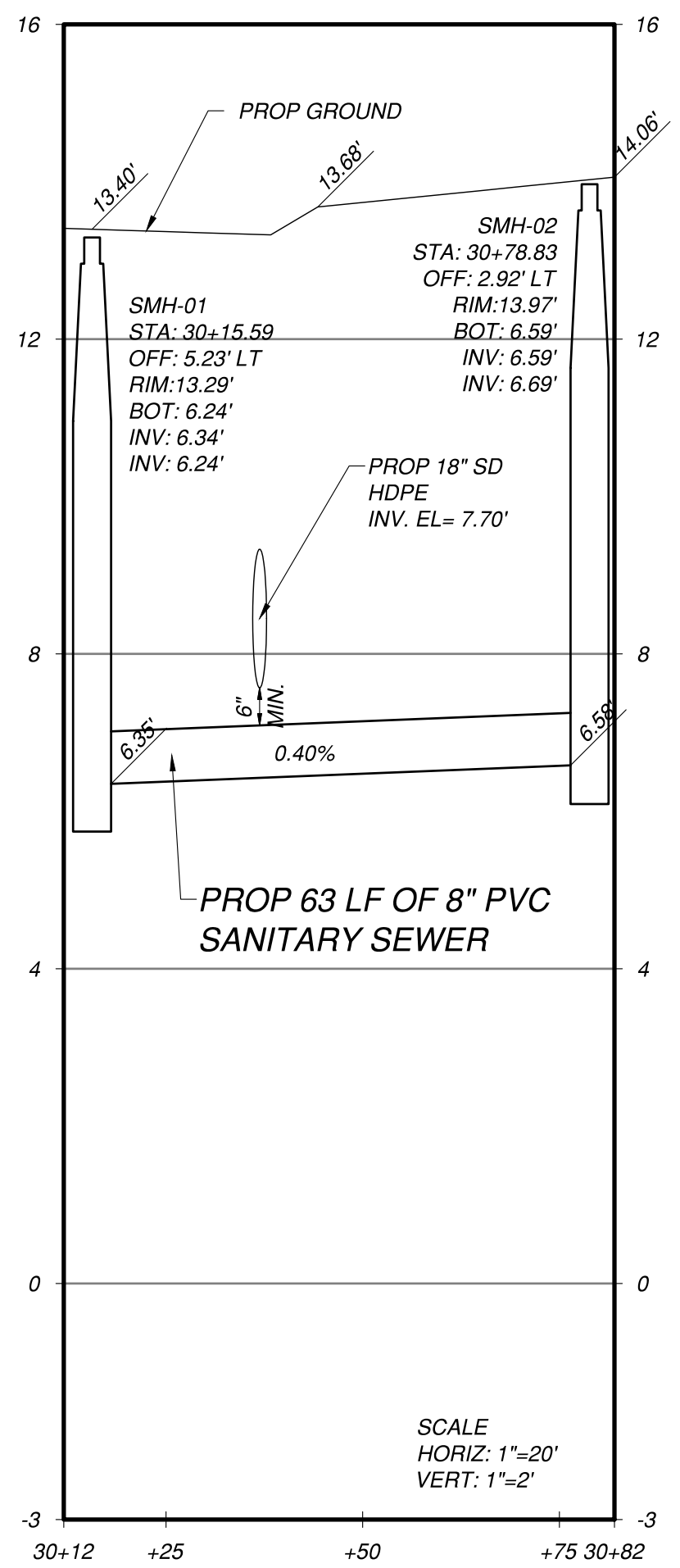
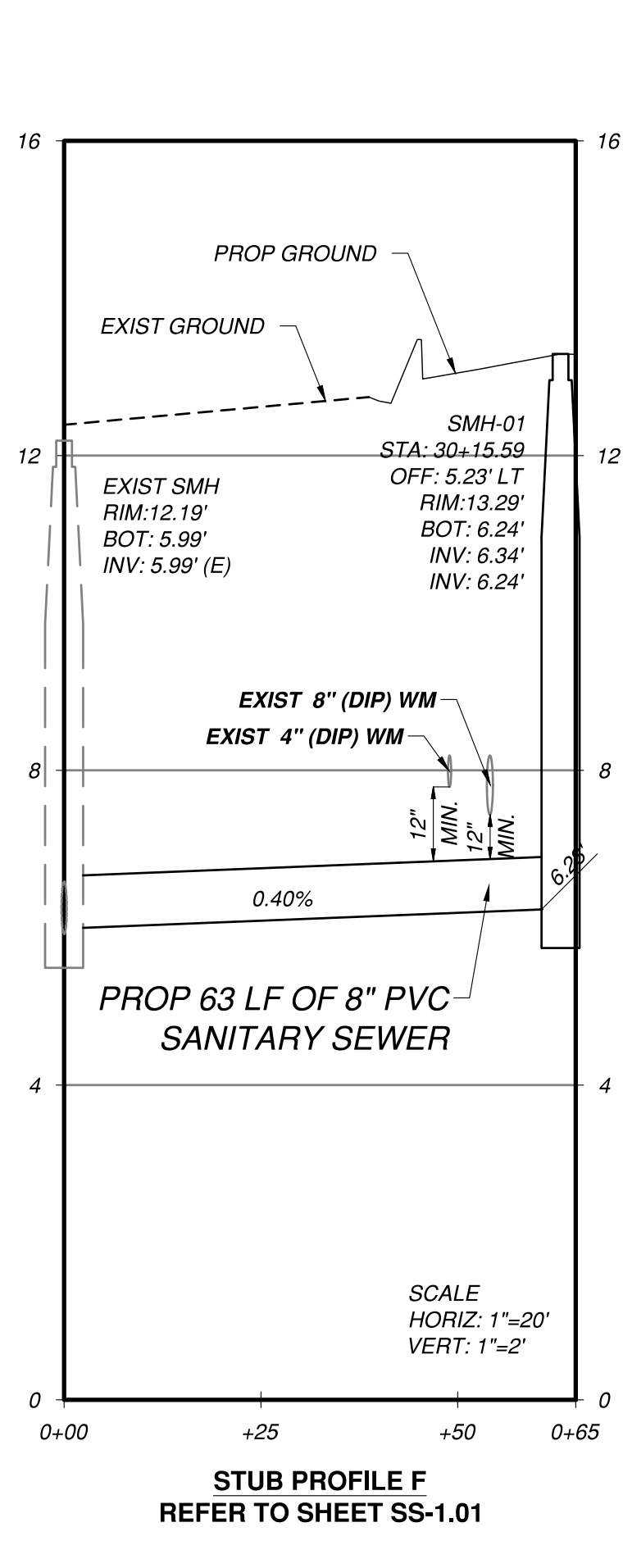
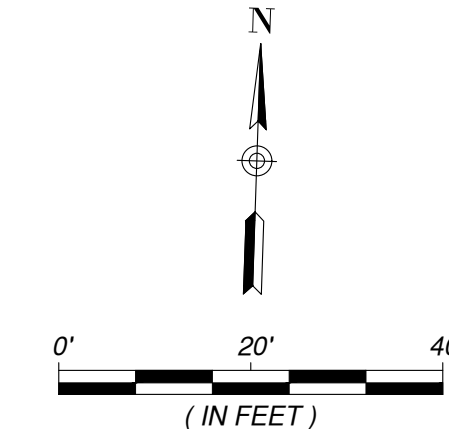
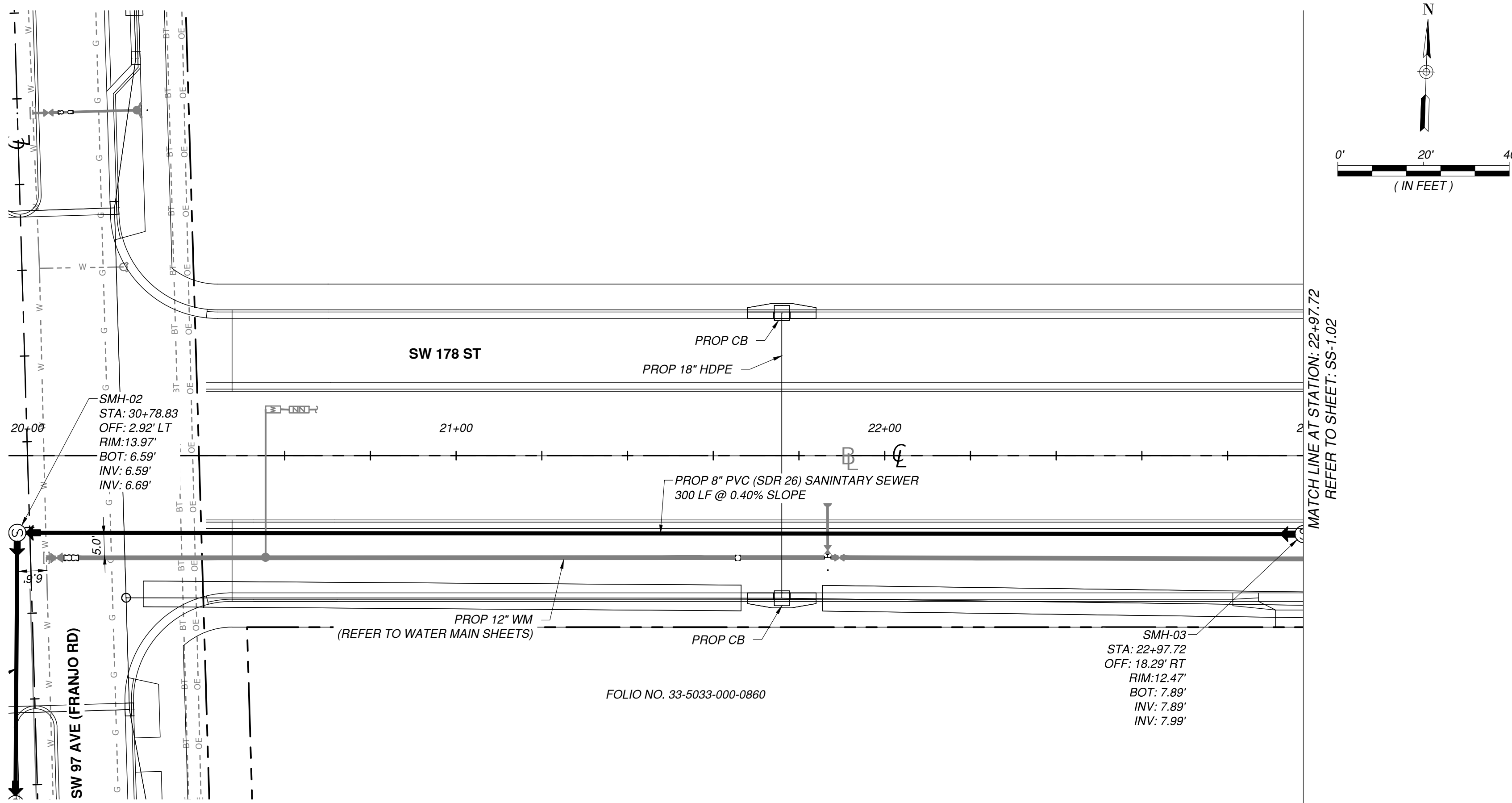
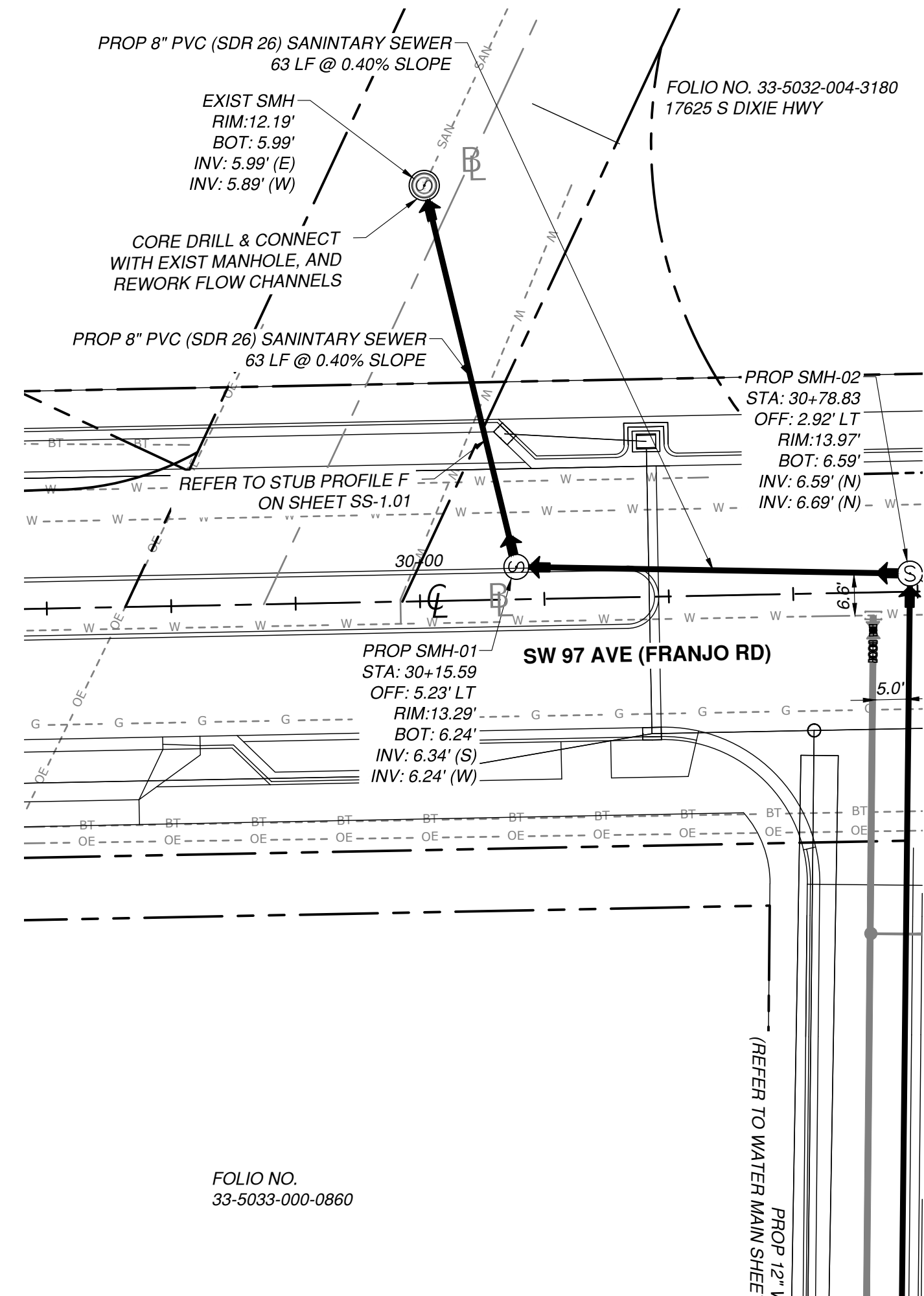
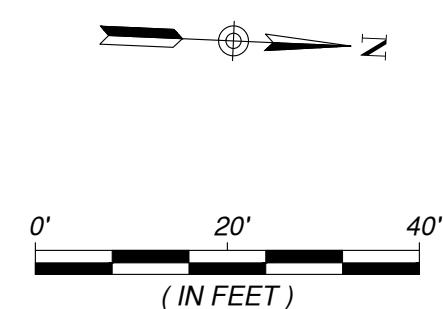
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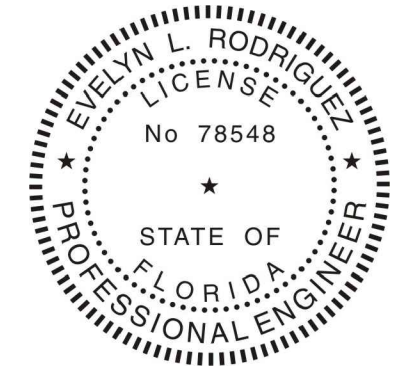
M-DWASD AGREEMENT ID: 30104

REVISIONS		REVISIONS		EVELYN L. RODRIGUEZ, P.E. P.E. LICENSE NUMBER 78548 EAC CONSULTING, INC. 5959 BLUE LAGOON DRIVE, SUITE 410 MIAMI, FL 33126 CERTIFICATE OF AUTHORIZATION 7011	VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT			WATERMAIN STUB PROFILES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						N/A	MIAMI-DADE		N/A



THIS DOCUMENT HAS BEEN
DIGITALLY SIGNED AND SEALED BY
EVELYN RODRIGUEZ, P.E. ON THE
DATE ADJACENT TO THE SEAL:
2/8/2019

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ENGINEER OF RECORD:
EVELYN L. RODRIGUEZ, P.E.
STATE OF FLORIDA - LICENSE NO. 78548

M-DWASD AGREEMENT ID: 30104

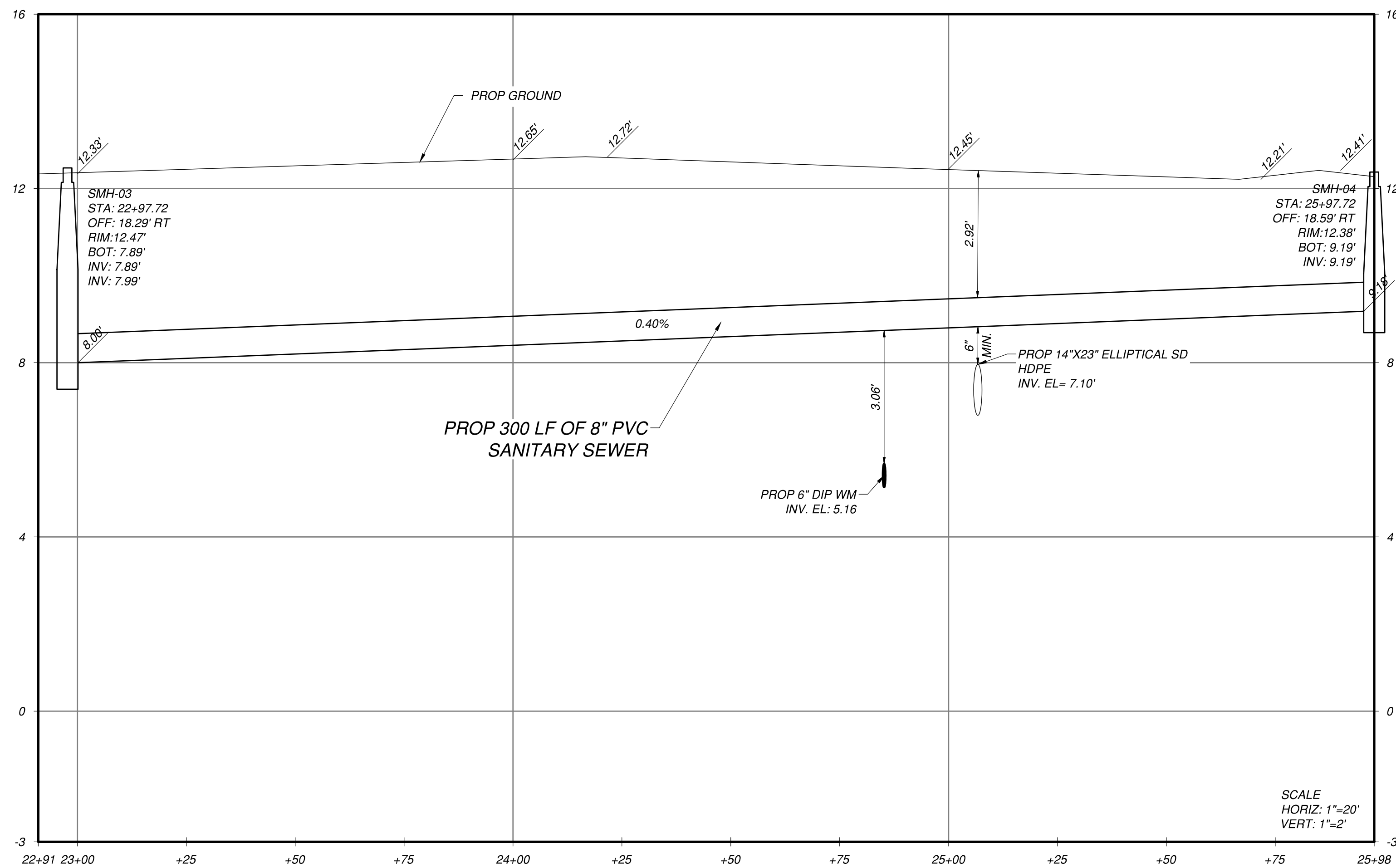
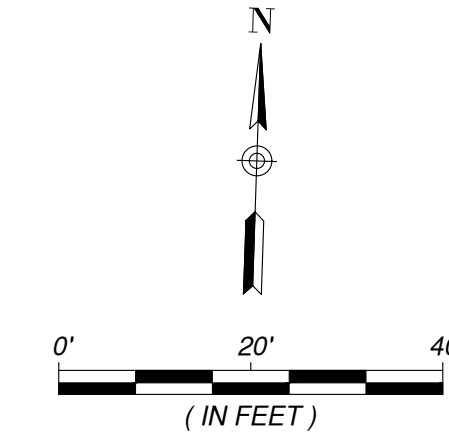
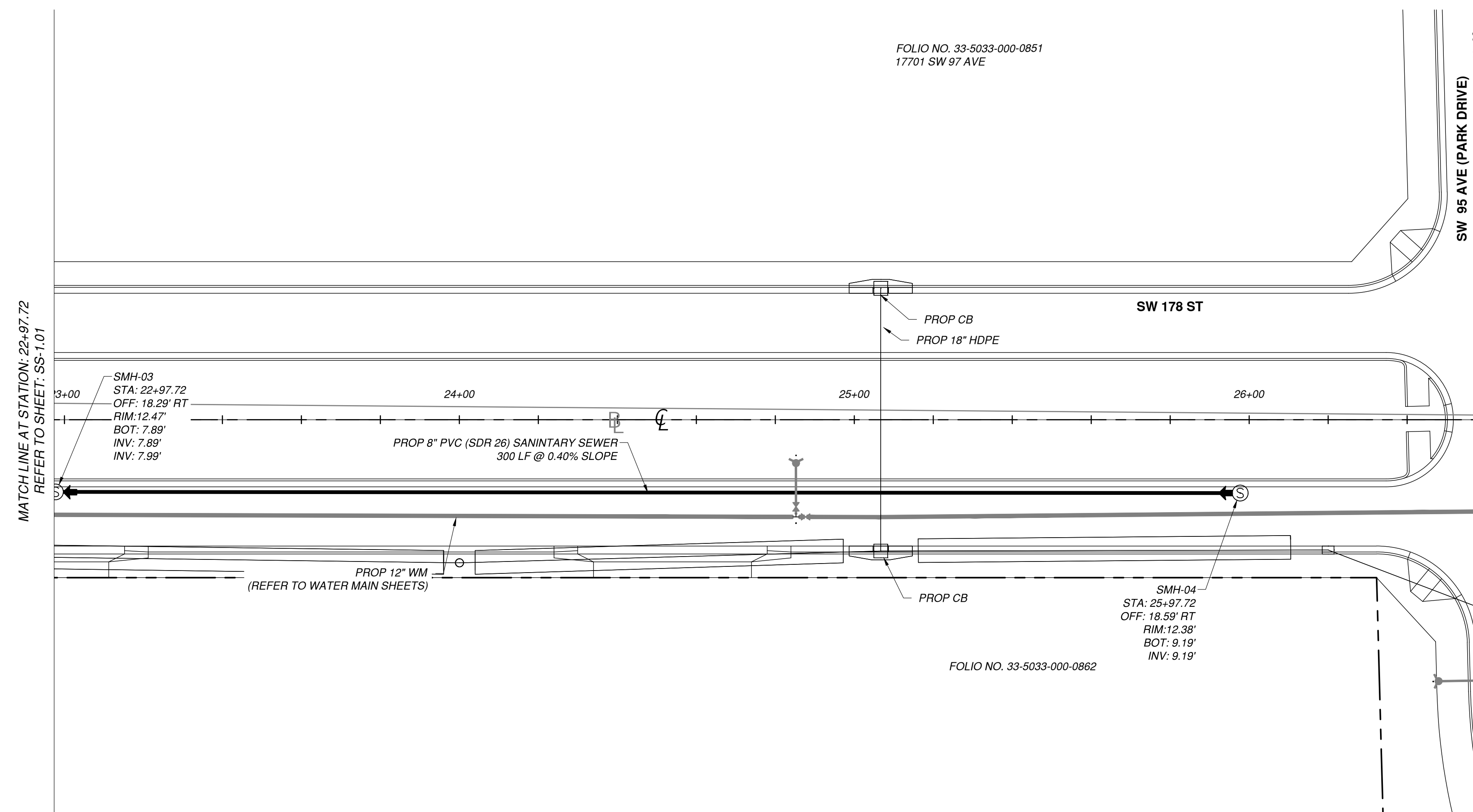
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EVELYN L. RODRIGUEZ, P.E.
P.E. LICENSE NUMBER 78548
EAC CONSULTING, INC.
5959 BLUE LAGOON DRIVE, SUITE 410
MIAMI, FL 33126
CERTIFICATE OF AUTHORIZATION 7011

VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	MIAMI-DADE	N/A

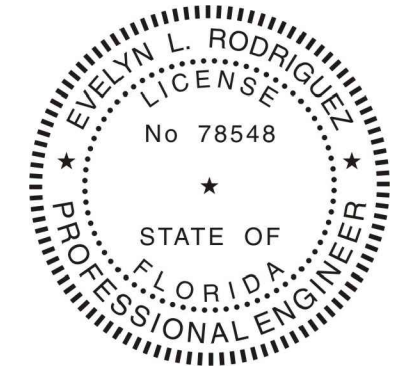
**FRANJO ROAD (SW 97 AVENUE)
AND SW 178 STREET SANITARY
SEWER PLAN & PROFILE**

SHEET
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SS-1.01



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ENGINEER OF RECORD:
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STATE OF FLORIDA - LICENSE NO. 78548

M-DWASD AGREEMENT ID: 30104

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5959 BLUE LAGOON DRIVE, SUITE 410
MIAMI, FL 33126
CERTIFICATE OF AUTHORIZATION 7011

VILLAGE OF PALMETTO BAY PUBLIC SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	MIAMI-DADE	N/A

SW 178 STREET SANITARY SEWER PLAN & PROFILE

SHEET
NO.

SS-1.02