

CONSTRUCTION (CONTINUED)

65. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION. SHOP DRAWINGS WILL BE FURNISHED TO THE ENGINEER FOR APPROVAL OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL FITTINGS PRIOR TO FABRICATION AND DELIVERY TO JOB SITE.
66. MINIMUM VERTICAL AND HORIZONTAL CLEARANCES WILL BE MAINTAINED BETWEEN POTABLE WATER, RECLAIMED WATER, SANITARY MAINS AND STORM SEWERS AS DETAILED IN THESE PLANS AND DESCRIBED IN THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT, OR PER CURRENT EDITION OF FAC 62-55.314.
67. UNLESS OTHERWISE NOTED ON THE DRAWINGS A MINIMUM OF 48" HORIZONTAL COVER WILL BE MAINTAINED ABOVE ALL BURIED PIPES. A MINIMUM OF 12" VERTICAL CLEARANCE WILL BE MAINTAINED BETWEEN BURIED GAS LINES AND ALL OTHER UTILITIES.
68. DUE TO GAS LINE PRESSURE, NO WORK OR STAGING OF WORK SHALL BE DONE WITHIN 10 FEET OF THE GAS MAIN WITHOUT THE NOTIFICATION OF TECO FIELD REPRESENTATIVE. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
69. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
70. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
71. IF UNSATISFACTORY MATERIAL FOR ADEQUATE BEARING IS ENCOUNTERED AT THE NORMAL SUBGRADE, THE UNSATISFACTORY MATERIAL WILL BE REMOVED, DISPOSED OF OFFSITE AND REPLACED WITH SUITABLE BACKFILL MATERIAL AS SPECIFIED.
72. ALL TRENCH BACKFILL UNDER PAVEMENT BEGINNING ONE (1) FOOT ABOVE THE TOP OF PIPE AND UP TO THE STABILIZED SUBGRADE, WILL BE COMPACTED AS INDICATED IN THE CONTRACT SPECIFICATIONS AND NOTED IN THE PLAN DETAILS. IN THE EVENT THAT DEWATERING IS REQUIRED, THE MATERIALS AND EQUIPMENT REQUIRED FOR DEWATERING WILL REMAIN IN PLACE AND FULLY OPERATIONAL UNTIL ALL DENSITY TESTS HAVE PASSED AND BEEN APPROVED BY THE OWNER. DEWATERING MATERIALS AND EQUIPMENT WILL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
73. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
74. ALL PENETRATIONS OF EXISTING STRUCTURES SHALL BE BY MECHANICAL ROTARY CORE DRILLING METHOD. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY. CONTRACTOR IS TO REPAIR VAULT WALL/REBAR TO PRE-CONSTRUCTION CONDITION. REMAINING ANNULAR SPACE IS TO BE BUTTERED WITH NONSHRINK GROUT TO PROVIDE A SMOOTH SEALING SURFACE. CONTRACTOR IS TO RECOAT THE VAULT INTERIOR DAMAGED DURING CONSTRUCTION.
75. GROUT AND FILL EXISTING PIPELINES AS NOTED IN THE DRAWINGS USING A CEMENT SLURRY CONTAINING FLY ASH THAT CAN ACHIEVE A MAXIMUM FILL DISTANCE OF 2,000 LF. SLURRY COMPOSITION TO BE SUBMITTED AS A SHOP DRAWING TO COUNTY FOR REVIEW AND APPROVAL PRIOR TO PURCHASE. FOR CAPS, USE OFFSET PORTS THAT ARE TO BE INSTALLED ADJACENT TO THE CROWN OF THE PIPE SO AS TO MINIMIZE AIR GAP POTENTIAL.
76. ALL NEW PIPELINES SHALL BE CLEANED, PIGGED (4" AND LARGER), FLUSHED, PRESSURE TESTED, AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIGGING, FLUSHING, AND PRESSURE TESTING. CONTRACTOR WILL PROVIDE TEMPORARY THRUST RESTRAINT, BRACING, TESTING PLUGS, AND OTHER DEVICES NECESSARY TO SUCCESSFULLY COMPLETE PRESSURE TESTING OF PIPING SYSTEMS.
77. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
78. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
79. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED AND SEALED BY A SURVEYOR. CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 1.15 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.15 WILL BE PROVIDED UPON REQUEST.
80. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS OF THE WORK AS CONSTRUCTED. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF ABANDONED FORCE MAIN AND THE CUT AND PLUG POINTS. AS-BUILT DRAWINGS SHALL BE ANNOTATED EACH DAY AS THE WORK PROCEEDS AND SHALL BE AVAILABLE TO THE COUNTY PROJECT MANAGER AND/OR FIELD INSPECTOR FOR REVIEW ON AN ONGOING BASIS. AS-BUILT DRAWINGS SHALL PROVIDE THE HORIZONTAL AND VERTICAL INSTALLED LOCATION OF ALL NEW PIPELINE, FITTINGS, VALVES AND FORCE MAIN APPURTENANCES REFERENCED TO FIXED SURFACE FEATURES THAT ARE SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR RIGHT-OF-WAY LINES, PROPERTY CORNERS OR OTHER SURVEYED POINTS. THE CONTRACTOR SHALL BE ABLE TO PRESENT THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

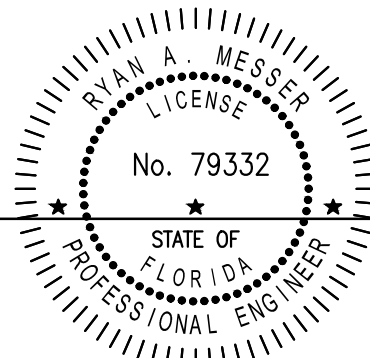
81. EXISTING UTILITIES WERE IDENTIFIED WITH SURVEY USING GROUND PENETRATING RADAR, AND SELECT UTILITIES WERE VEH-ED VIA TEST HOLES AS SHOWN ON THE DRAWINGS.
82. BEARINGS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT.
83. THE COMBINED SCALE FACTOR FROM THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD) TO NORTH AMERICAN DATUM OF 1988 (NAVD) IS 1.000438695.

MAINTENANCE OF TRAFFIC

84. THE CONTRACTOR IS RESPONSIBLE FOR ANY MAINTENANCE OF TRAFFIC RESULTING FROM A TRAFFIC CONTROL PLAN (TCP) IMPLEMENTED. THE TCP SHALL BE PREPARED BY AN INDIVIDUAL CERTIFIED TO PREPARE A TCP IN THE STATE OF FLORIDA THAT MEETS OR EXCEEDS THE REQUIREMENTS OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION (SERIES 600). ANY DEVIATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO COUNTY FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.
85. THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN (TCP). THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS SECTION 102, SECTION 990, SECTION 994, AND FEDERAL HIGHWAY ADMINISTRATION'S THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). A TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
86. CONTRACTOR TO PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAG PERSONS AS REQUIRED BY THE MUTCD AND FDOT STANDARDS/INDICES.
87. CONTRACTOR TO INCLUDE COST FOR OBTAINING ALL PERMITS, LICENSES AND INSURANCE REQUIRED FOR THIS PROJECT IN HIS BID.
88. THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FDOT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FDOT DESIGN STANDARD INDICES ARE CONCEPTUAL.
89. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY DRAINAGE. THERE WILL BE NO DIRECT PAY FOR THIS WORK, COSTS SHALL BE INCLUDED IN THE COST OF PIPE.
90. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED OR LOCATED TO MINIMIZE NOISE.
91. THE CONTRACTOR WILL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY PROPOSED LANE CLOSURES OR DETOURS.
92. ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE PROVIDED AND MAINTAINED DURING CONSTRUCTION AT ALL TIMES.
93. USE FDOT INDEX NO. 619 FOR TRAFFIC CONTROL MEASURES WHEN CONSTRUCTION EQUIPMENT IS DRIVEN ON OPEN TRAVEL LANES. THE REGULATORY SPEED IN WORK ZONES SHOULD BE AS CLOSE TO NORMAL CONDITIONS AS POSSIBLE, UNLESS NOTED ON THE TRAFFIC CONTROL PLANS.
94. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO WORKING NEAR THEIR EXISTING FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SUPPORT OF ADJACENT UTILITY POLES AND/OR COORDINATION OF SUCH WITH UTILITY COMPANIES.
95. CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSITIVE DRAINAGE OF THE TRAVELWAYS AT ALL TIMES.
96. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO SEPARATE PAYMENT.
97. THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE AS PER FDOT STANDARD INDEX 600.
98. ALL DETOURS, IF APPROVED BY THE COUNTY, SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MUTCD (LATES EDITION) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION (600 SERIES). ANY DETOUR RECOMMENDED BY THE CONTRACTOR MUST BE SUBMITTED TO THE COUNTY FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

UTILITY CONTACT TABLE

MANATEE COUNTY PUBLIC WORKS	ANTHONY BENITEZ	(941) 708-7450 EXT. 7333
MANATEE COUNTY TRAFFIC	MUKUNDA GOPALAKRISHNA	(941) 749-3500 EXT. 7813
MANATEE COUNTY HEALTH		(941) 748-0747 EXT. 1355
CITY OF BRADENTON PUBLIC WORKS	JIM MCLELLAN	(941) 708-6300
DEPARTMENT OF ENVIRONMENTAL PROTECTION	ED WATSON	(813) 470-5875
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT	STEVE LOPES	(941) 377-3722
FLORIDA POWER AND LIGHT (SERVICE)	NYLES PETERSON	(941) 723-4425
FLORIDA POWER AND LIGHT (DISTRIBUTION)	GREG COKER	(941) 723-4430
TECO GAS	DAN SHANAHAN	(941) 342-4006
PEACE RIVER ELECTRIC COOPERATIVE	JAMIE FONES	(863) 767-4654
FRONTIER/VERIZON	DENISE HUTTON	(941) 906-6722
CHARTER/BRIGHTHOUSE	TOM WRIGHT	(941) 748-3816 EXT. 21348
ATMS	VISHAL KAKAAD	(941) 749-3500 EXT. 7812
SUNSHINE STATE ONE CALL OF FLORIDA		1 (800) 432-4770



RYAN MESSER, P.E.
FL. CERTIFICATE NO. 79332



FM 33A AND FM 36A REPLACEMENT

**GENERAL NOTES
(2 OF 2)**



FILENAME | G-103-1.DWG
SCALE | NONE

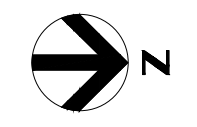
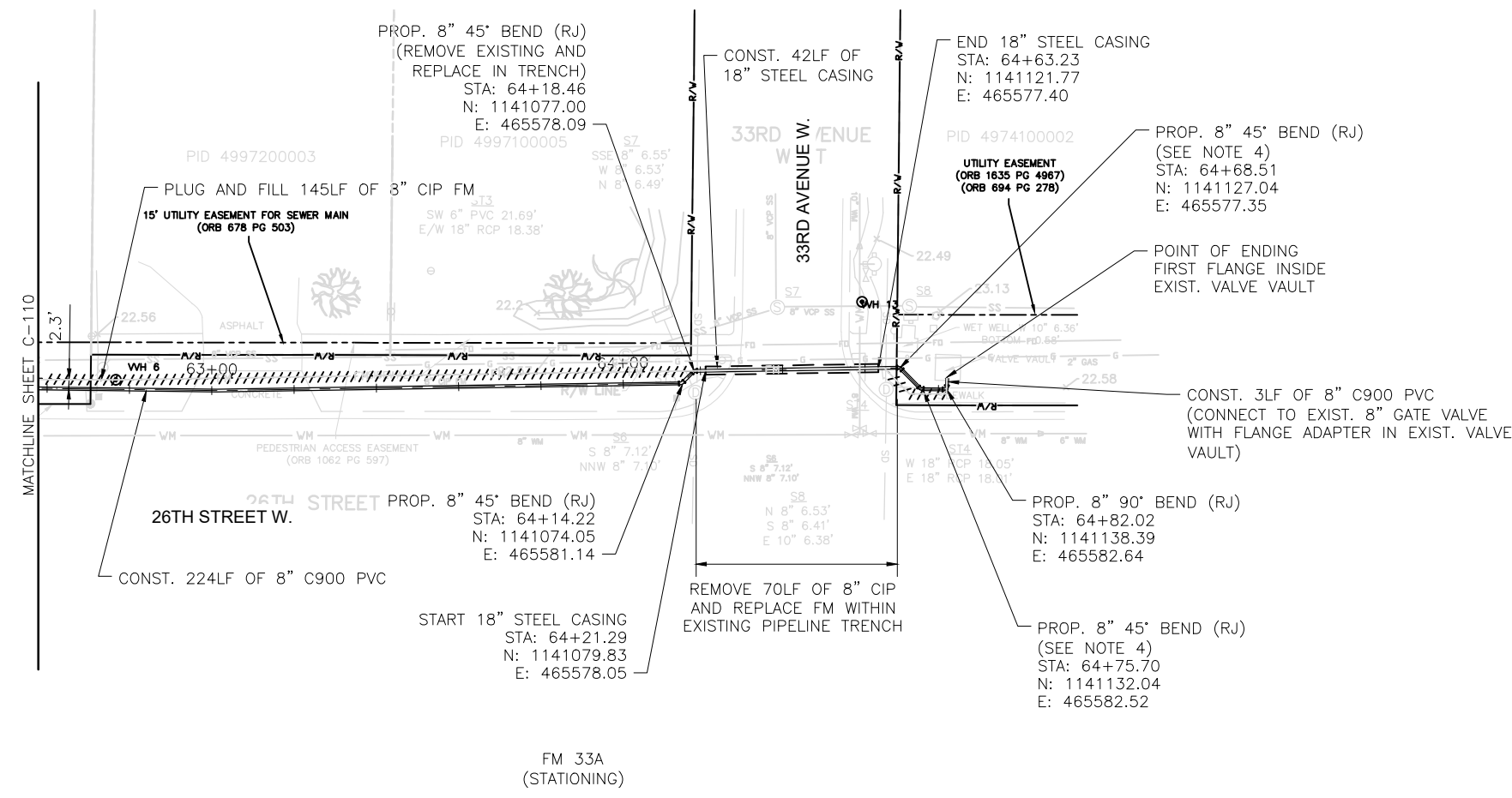
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G-103-1



HDR Engineering, Inc.
4830 W Kennedy Blvd., Suite 400
Tampa, FL 33609
Certificate of Authorization No. 4213

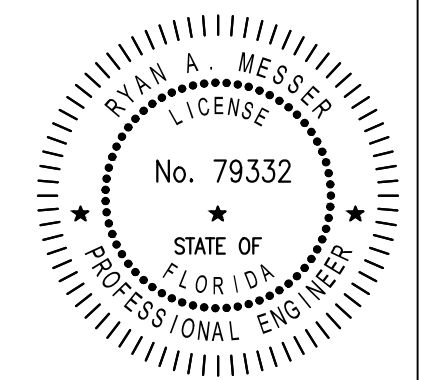
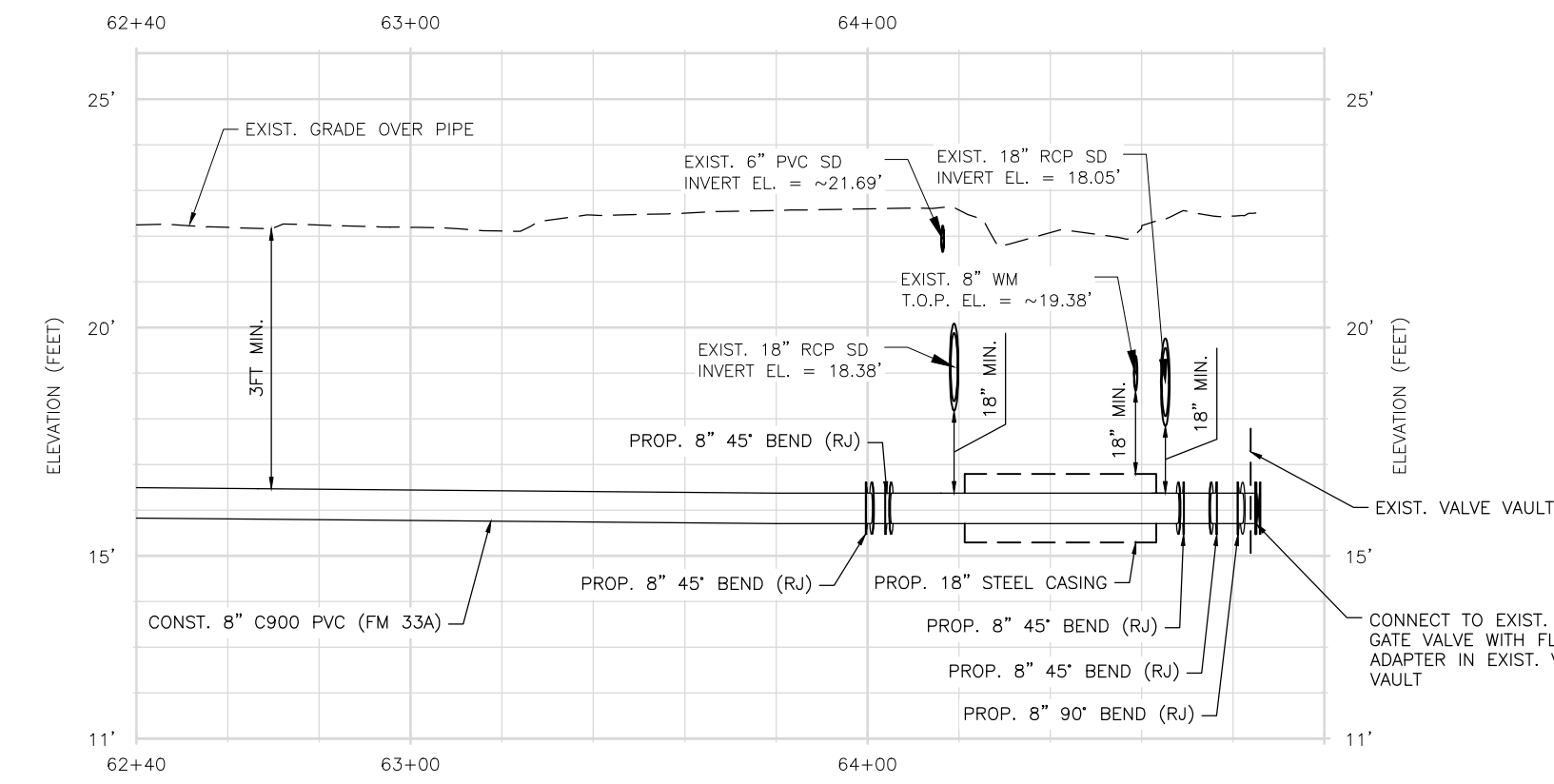
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2	11/2020	75% SUBMITTAL
1	07/2019	30% SUBMITTAL

PROJECT MANAGER RYAN MESSER, P.E.	
SENIOR ENGINEER	----
PROCESS DESIGNER	J. THORPE
PROJECT NUMBER	10171461



CONSTRUCTION NOTES:

- REFER TO GENERAL NOTES ON SHEET G-102 & G-103
- FOR WH DATA, REFER TO SHEET G-104.
- REFER TO COUNTY DETAIL UG-8 FOR RESTRAINED JOINT LENGTHS.
- REFER TO COUNTY DETAIL UG-19 AND UG-20 FOR TREE ROOT BARRIER REQUIREMENTS. COST FOR ROOT BARRIERS TO BE INCORPORATED INTO COST OF PIPE.
- ROTATE FITTINGS AS NEEDED TO ADJUST TO VALVE VAULT TIE IN ELEVATION.
- REFER TO COUNTY DETAIL UG-3 FOR CASING CROSSINGS.
- PROVIDE THE APPLICABLE MAINTENANCE OF TRAFFIC PER FDOT FY2021-22 STANDARD PLANS FOR ROAD CONSTRUCTION.



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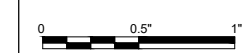
PROJECT MANAGER	RYAN MESSER, P.E.
SENIOR ENGINEER	----
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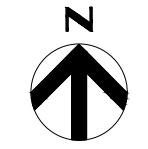
**FM 33A AND FM 36A
REPLACEMENT**

FM 33A
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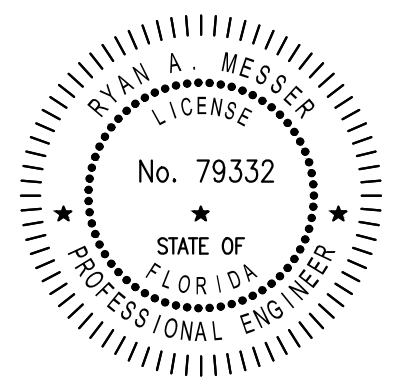
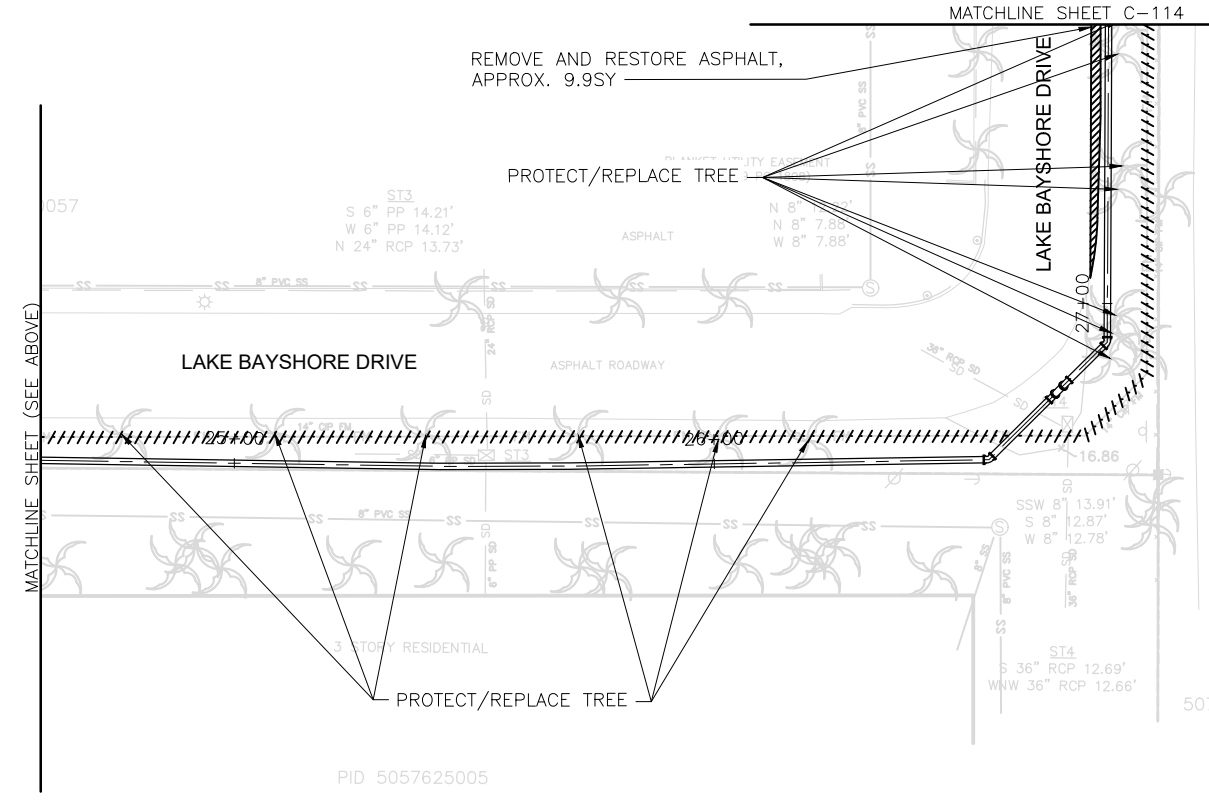
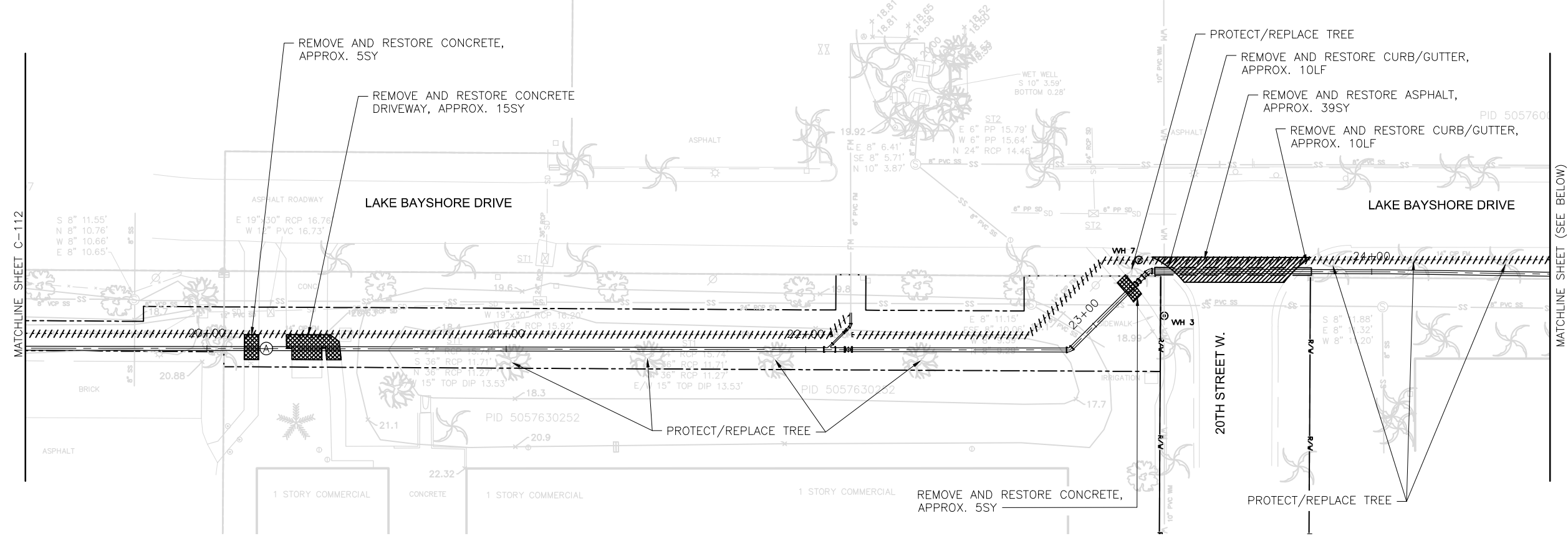


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SCALE AS NOTED

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C-111-1



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SCALE: 1" = 40'



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1	07/2019	30% SUBMITTAL

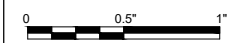
PROJECT MANAGER RYAN MESSER, P.E.	
SENIOR ENGINEER	----
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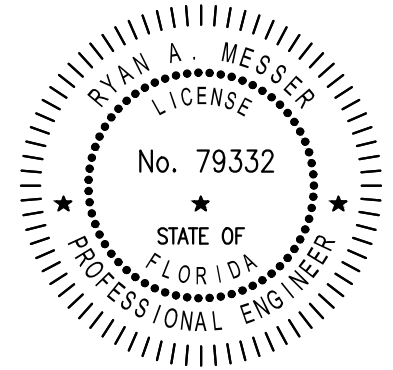
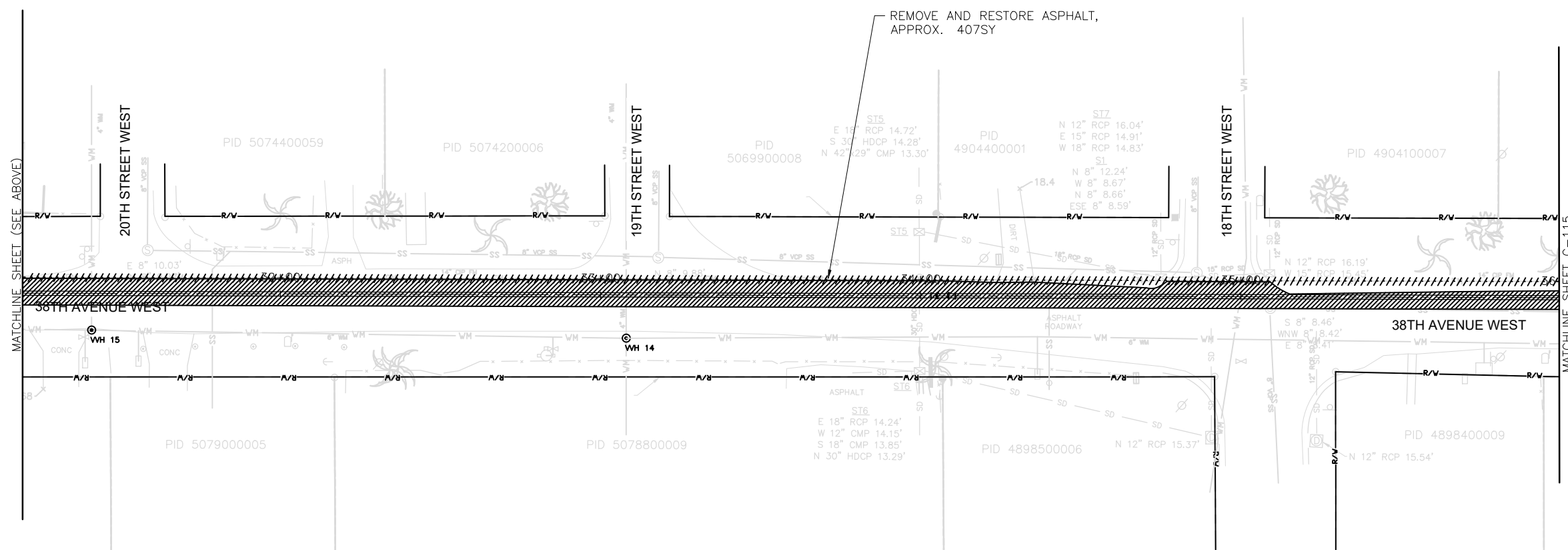
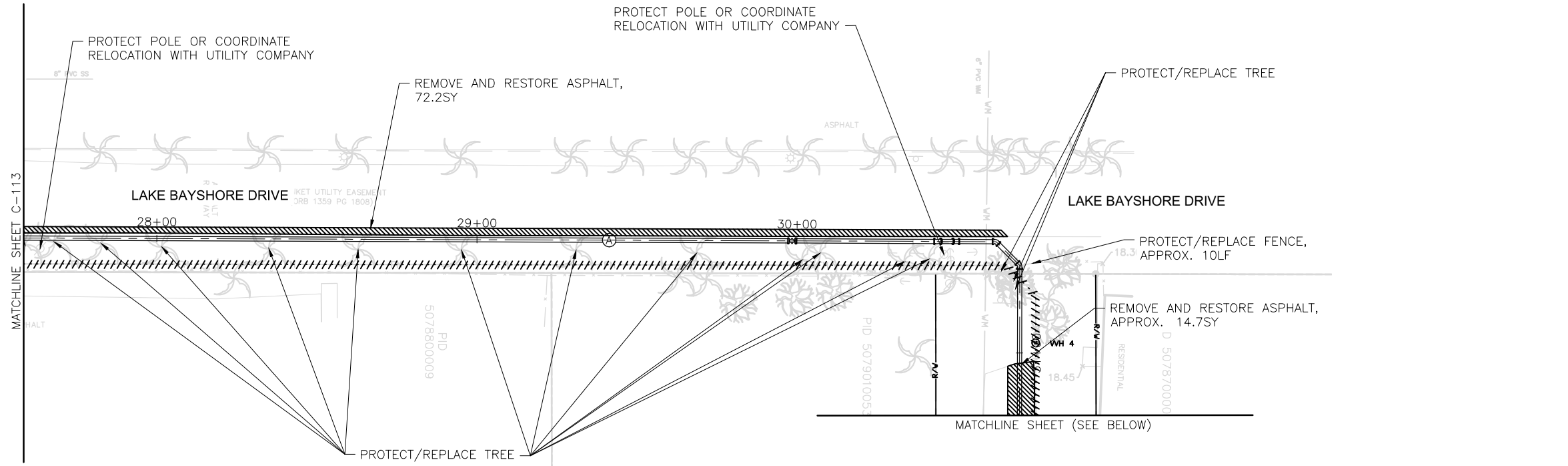
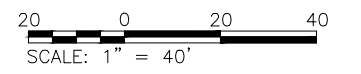
FM 33A AND FM 36A REPLACEMENT

FM 36A PAVEMENT RESTORATION



FILENAME | C-113-1.DWG
SCALE | 1" = 40'

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C-113-1



ISSUE	DATE	DESCRIPTION
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1	07/2019	30% SUBMITTAL

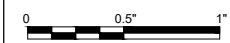
PROJECT MANAGER RYAN MESSER, P.E.	
SENIOR ENGINEER	----
PROCESS DESIGNER	J. THORPE
PROJECT NUMBER 10171461	

RYAN MESSER, P.E.
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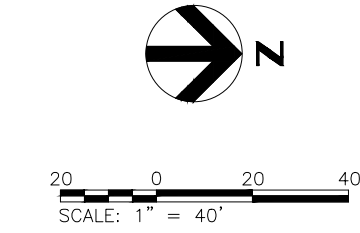
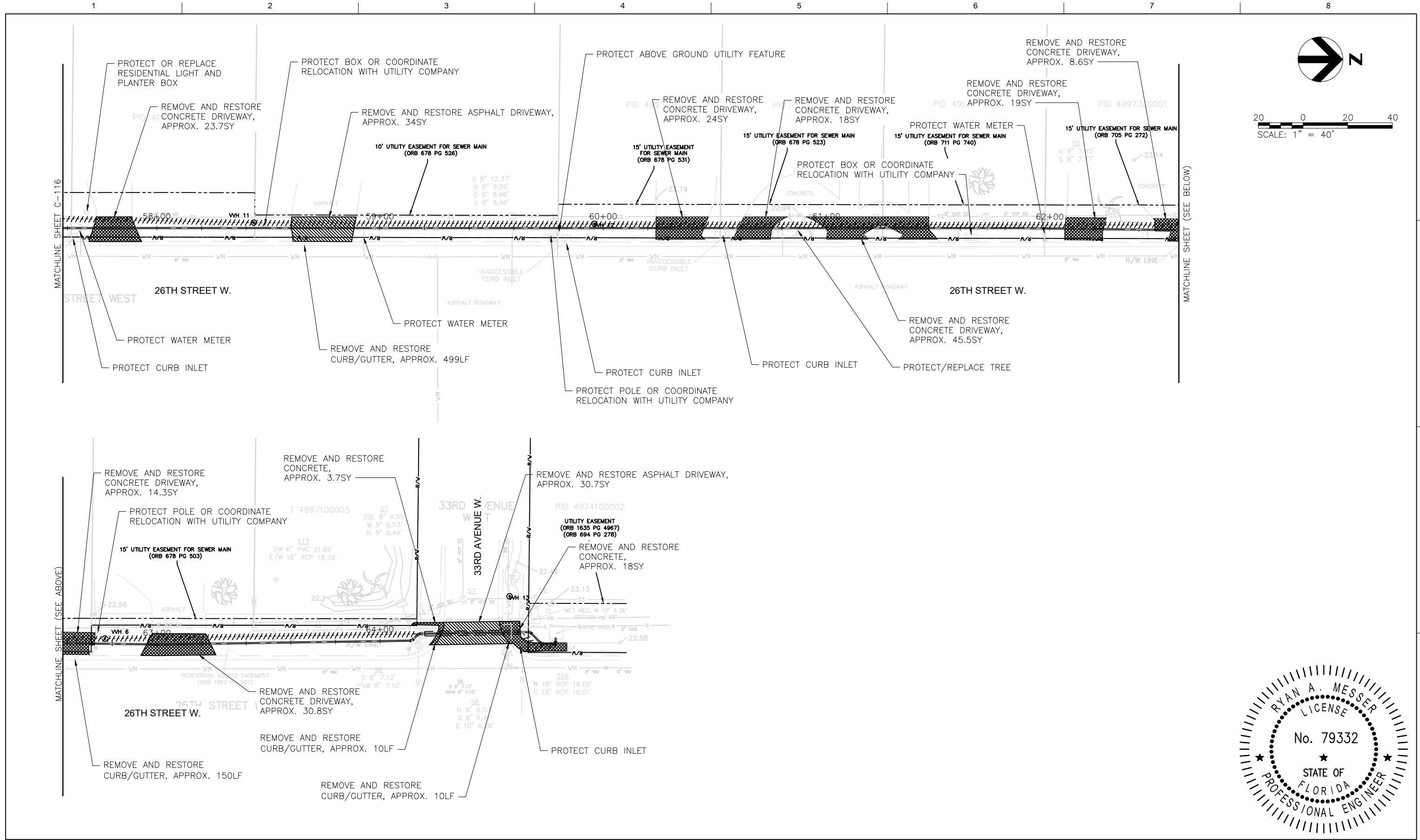
FM 33A AND FM 36A REPLACEMENT

FM 36A PAVEMENT RESTORATION



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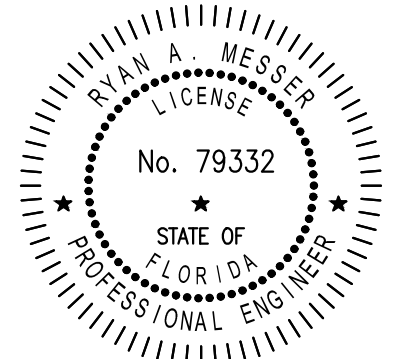
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MATCHLINE SHEET C-116

MATCHLINE SHEET (SEE BELOW)

MATCHLINE SHEET (SEE ABOVE)



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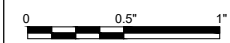
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SENIOR ENGINEER	----
PROCESS DESIGNER	J. THORPE
PROJECT NUMBER 10171461	

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FM 33A AND FM 36A REPLACEMENT

FM 33A PAVEMENT RESTORATION



FILENAME C-117-1.DWG
SCALE 1" = 40'

SHEET
C-117-1