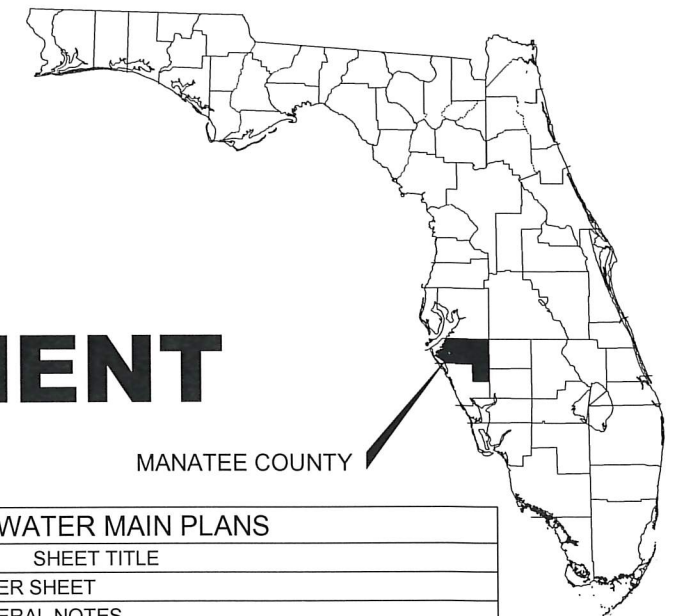




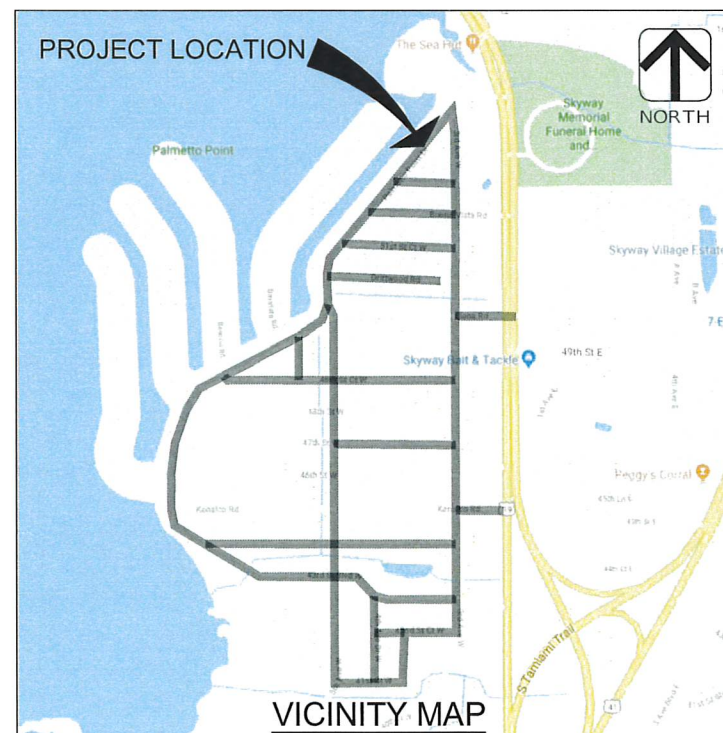
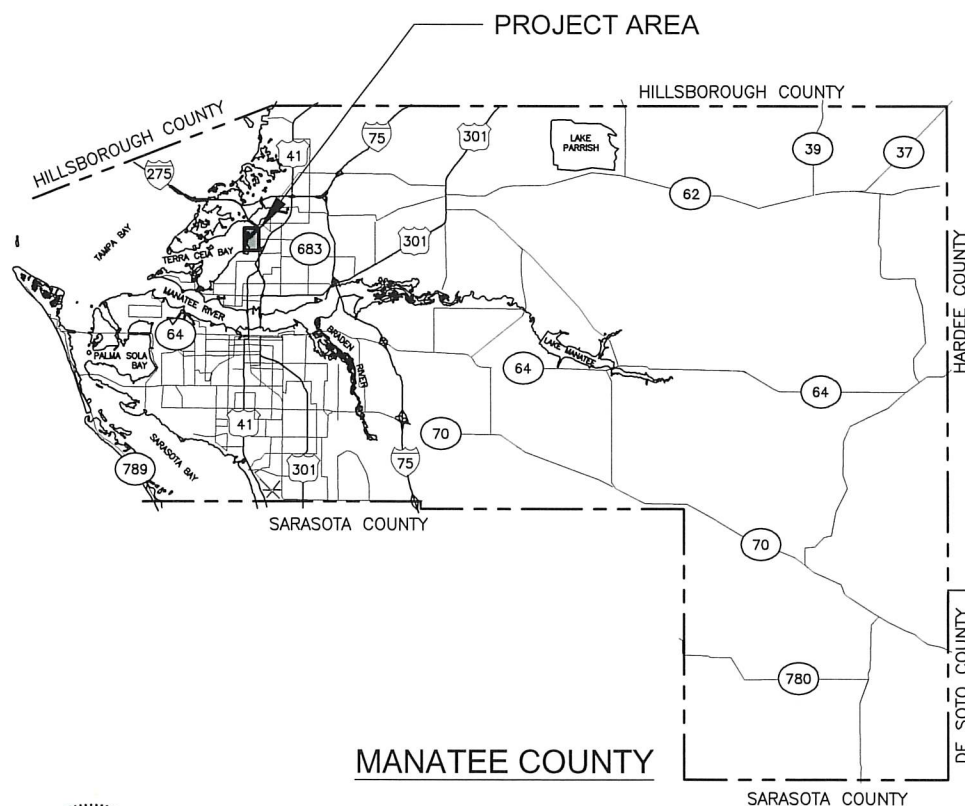
MANATEE COUNTY PUBLIC WORKS (CIP #6091870)

PALMETTO POINT WATER MAIN REPLACEMENT 100% CONSTRUCTION DOCUMENTS JAN 2020



MANATEE COUNTY

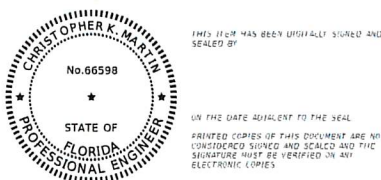
COUNTY MAP
NTS



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DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	JAN 2020	NO	DATE
				REVISION	

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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



COVER SHEET

SHEET NO.
01

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GENERAL NOTES:

- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE BASED UPON AVAILABLE INFORMATION REVIEWED AT THE TIME OF DOCUMENT PREPARATION AND ARE APPROXIMATE. EXACT LOCATIONS, DEPTHS OF UTILITIES, AND TYPE OF PIPE MUST BE VERIFIED BY THE CONTRACTOR BEFORE ORDERING MATERIALS, 72 HOURS PRIOR TO EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THE SAME DURING CONSTRUCTION. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICT WITH THE PROPOSED CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING RECORD DRAWING INFORMATION INCLUDING, BUT NOT LIMITED TO FINISHED GRADE ELEVATIONS, TIES TO WATER MAINS, VALVES, BENDS, ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN, TIES TO WATER LINES, AND SERVICE CONNECTIONS. LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL AFFECTED FEDERAL, STATE, LOCAL, AND PRIVATE ENTITIES POTENTIALLY AFFECTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE OF WHEN CONSTRUCTION WILL COMMENCE IN THE AREA IN ORDER TO PERMIT FIELD LOCATION OF UTILITY LINES PRIOR TO CONSTRUCTION. A TOLL FREE NUMBER, 811 IS AVAILABLE TO ASSIST IN SUCH COORDINATION EFFORTS. THIS NUMBER IS PART OF THE UTILITY NOTIFICATION EFFORTS. THIS IS REFERRED TO AS "SUNSHINE811", BUT DOES NOT TOTALLY REPRESENT ALL UTILITIES POTENTIALLY AFFECTED. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY AND ALL DAMAGE TO PROPERLY LOCATED EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIVITIES, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE A REVIEW OF THE SITE TO DETERMINE EXISTING CONDITIONS AND ANYTHING NOT COVERED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE (ENGINEER OF RECORD) AND BE PART OF THE BID VALUE.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY A MINIMUM OF 2 WEEKS IN ADVANCE OF ANY AND ALL WORK REQUIRING DISRUPTION OF ACCESS, WATER, OR SANITARY SEWER SERVICE. DISRUPTION IN SERVICE TO ANY PROPERTY OWNER SHALL NOT EXCEED 2 HOURS FOR WATER AND 4 HOURS FOR SANITARY SEWER SERVICE. ACCESS TO PROPERTY SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF THE UTILITY POLES AND SIGNAL POLES DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, IRRIGATION LINES, SIGNS, LANDSCAPING, SOD, WETLANDS, ETC.
- ANY AND ALL AREAS DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE COMPLETELY RESTORED WITH THE SAME TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP AS PREVIOUSLY EXISTED.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY, APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF-SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN-PLACE UNTIL THE SURROUNDING AREAS ARE ESTABLISHED. THESE DEVICES SHALL BE INSTALLED ACCORDING TO THE FLORIDA DEVELOPMENT MANUAL PUBLISHED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND GOVERNING CONTRACT DOCUMENTS.
- ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH NPDES REQUIREMENTS.
- ALL FACILITIES AND ACCESSORIES SHALL BE INSTALLED IN CONFORMANCE WITH APPLICABLE LOCAL CODES AND REQUIREMENTS AND THESE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP EXCAVATIONS DRY AND SHALL PROVIDE ALL SHORING, SHEETING, AND BRACING NECESSARY TO PROTECT WORKMEN, ADJACENT STRUCTURES, UTILITIES, EXISTING PAVEMENT, OR TO MINIMIZE TRENCH. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRENCH SAFETY FOR TRENCH EXCAVATIONS, AND COMPLY WITH OSHA AND THE STATE OF FLORIDA TRENCH SAFETY REGULATIONS. THE COST OF DEWATERING SHALL BE INCLUDED IN THE PIPING PAY ITEMS.
- ALL TEES, CROSSES, PLUGS, BENDS (HORIZONTAL AND VERTICAL), DEFLECTING 11-1/4 DEG OR MORE, SHALL BE INSTALLED WITH RESTRAINED JOINTS.

- DEPTH OF COVER AS MEASURED FROM FINISHED GRADE TO TOP OF THE PIPELINE SHALL BE A MINIMUM OF 36 INCHES UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL ADJUST (AS REQUIRED) PIPELINE ALIGNMENTS HORIZONTALLY AND/OR VERTICALLY TO AVOID CONFLICTS WITH ACTUAL FIELD CONDITIONS AS UNCOVERED DURING CONSTRUCTION. FIELD ADJUSTMENT SHALL BE COORDINATED WITH, AND APPROVED BY, THE ENGINEER.
- THE CONTRACTOR SHALL BRACE AND PROTECT ALL EXISTING EXPOSED UTILITIES; AND COORDINATE HIS/HER EFFORTS WITH THE UTILITY OWNER.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL CALL THE SUNSHINE STATE ONE CALL AT 811 AND THE UTILITY OWNERS 48 HOURS BEFORE BEGINNING WORK. NOT ALL UTILITIES ARE MEMBERS, WHICH WILL REQUIRE DIRECT CONTACT WITH NON-MEMBERS.
- UTILITY/AGENCY OWNERS:

COMPANIES	CONTACT	PHONE NUMBERS
Charter Communications	Alex Fleming	727-224-5459
Florida Power & Light Manatee	Joel Bray	386-586-6403
Frontier Communications	Tess Bentayou	813-357-1075
Manatee County Utility Transportation	Kathleen McMahon	941-792-8811 x5002
Manatee County Utility Operation	Kathleen McMahon	941-792-8811 x5075
- CONTRACTOR SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:
 - IN-GROUND IRRIGATION SYSTEM,
 - SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL),
 - SWIMMING POOL,
 - FIRE SPRINKLER SYSTEM,
 - FLOOD ZONE DESIGNATION,
 - PROPERTY THAT ABUTS OR INCLUDES A BODY OF WATER (INCLUDING RIVER, BAY, LAKE OR POND),
 - SOLAR WATER HEATING SYSTEM,
 - MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY.
- A LICENSED PLUMBER SHALL INSTALL THE BPA'S IN ACCORDANCE WITH THE CURRENT FLORIDA PLUMBING CODE AND MANATEE COUNTY CODE OF ORDINANCES, AND SHALL SELECT A PRESSURE RELIEF VALVE WITH AN APPROPRIATE PRESSURE SET POINT TO PROTECT THE CUSTOMERS' PLUMBING AND NOT ALLOW EXCESSIVE LEAKAGE DUE TO SYSTEM SUPPLY PRESSURE. A PRESSURE REDUCING VALVE MAY BE NECESSARY UPSTREAM OF THE PRESSURE RELIEF VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS REQUIRED.
- IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL RP BPA SHALL BE INSTALLED AT THE POINT OF CONNECTION.
- VACUUM BREAKERS SHALL BE INSTALLED ON ALL HOSE BIBS.
- CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION STAFF & PRIVATE PROPERTY OWNER AS REQUIRED.

HATCHING LEGEND:

- DRIVEWAY RESTORATION LIMITS
- ASPHALT RESTORATION LIMITS
- MILL & OVERLAY RESTORATION LIMITS

NOTE: MILL & RESURFACE LIMITS AS SHOWN ON PLANS SHALL BE SAW-CUT AND SHALL MATCH EXISTING PAVEMENT

SEPARATION REQUIREMENTS:

- VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, AND WASTEWATER OR STORMWATER FORCE MAINS: NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAINS SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. WATER MAIN TO BE ABOVE THE OTHER PIPELINE UNLESS NOTED OTHERWISE. NEW RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN SHALL HAVE ONE FULL LENGTH OF WATER MAIN PIPE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN STORM SEWERS AND STORMWATER FORCE MAINS AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS AND WASTEWATER FORCE MAINS.
- HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, AND WASTEWATER OR STORMWATER FORCE MAINS:

NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN OR RIGHT OF WAY LINES.

NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, OR WASTEWATER FORCE MAIN.

PROPOSED SYMBOL LEGEND

- WATER MAIN
- FIRE HYDRANT ASSEMBLY
- WATER GATE VALVE
- WATER METER
- BACKFLOW PREVENTION DEVICE
- AIR RELEASE VALVE
- WATER SERVICE LINE
- EXIST. WATER MAIN TO BE GROUT FILLED

ABBREVIATIONS:

- AC = ASBESTOS CEMENT PIPE
- CONST = CONSTRUCTION
- DI = DUCTILE IRON
- DOC = DEPTH OF COVER
- ERCPC = ELLIPTICAL REINFORCED CONCRETE PIPE
- EX = EXISTING
- EXIST = EXISTING
- F&I = FURNISH AND INSTALL
- FM = FORCE MAIN
- MJ = MECHANICAL JOINT
- NFV = NOT FIELD VERIFIED
- LAT = LATERAL
- LF = LINEAR FEET
- PROP = PROPOSED
- PVC = POLYVINYL CHLORIDE PIPE
- RCP = REINFORCED CONCRETE PIPE
- SAN = SANITARY
- TH = TEST HOLE
- TYP = TYPICAL
- WM = WATER MAIN

EXISTING SYMBOL LEGEND

- SIGN
- WOOD UTILITY POLE
- CONCRETE UTILITY POLE
- GUY WIRE
- WATER METER
- WATER VALVE
- RECLAIM VALVE
- SANITARY MANHOLE
- STORM MANHOLE
- GRATE INLET
- FIRE HYDRANT
- BACKFLOW PREVENTER
- UTILITY RISER
- UTILITY VAULT
- MAILBOX
- WOOD POST
- CLEANOUT
- GAS MARKER
- ANTENNA
- CONTROL PANEL
- CABLE SERVICE BOX
- TELEPHONE SERVICE BOX
- STREET LIGHT
- PALM
- OAK
- TREE
- BUSH
- SURVEY CONTROL POINT
- DRIP LINE
- FENCE LINE
- RIGHT OF WAY
- OVERHEAD ELECTRIC
- OVERHEAD UTILITIES
- HEDGE/VEGETATION LINE
- 1-FOOT CONTOURS
- DRAINAGE PIPE
- SANITARY SEWER
- SANITARY SERVICE LINE
- 6" WM TEST HOLE QUALITY LEVEL A
- EXISTING WATER MAIN QUALITY LEVEL D
- EXISTING BURIED TELEPHONE (QUALITY LEVEL B)
- EXISTING BURIED FIBER-OPTIC CABLE (QUALITY LEVEL B)
- EXISTING BURIED ELECTRIC (QUALITY LEVEL B)
- ELECTRONIC DEPTH OF COVER
- TEST HOLE LOCATION

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DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



GENERAL NOTES

SHEET NO. 02

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

TRAFFIC NOTES & SPECIAL CONDITIONS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC WHICH WILL CONFORM TO THE CURRENT EDITION OF THE FEDERAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT DESIGN STANDARDS 600 SERIES. THE CONTRACTOR SHALL SUBMIT ALL TRAFFIC CONTROL PLANS TO MANATEE COUNTY (ATTN:VISHAL S.KAKKAD, TRAFFIC DESIGN MANAGER, 941-749-3500 EXT:7812) FOR REVIEW/APPROVAL.
2. ALL BACKFILLED MATERIAL SUCH AS SAND, GRAVEL, DIRT, ETC., NOT USED BY THE END OF EACH WORK DAY, MUST BE STORED IN A LOCATION OTHER THAN ON PAVEMENT.
3. ALL DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF PAVEMENT OR VEGETATION. WATERING, APPLICATION OF CALCIUM CHLORIDE OR OTHER PRIOR APPROVED MEASURE OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT PAVEMENT, GRASS, LANDSCAPING, AND OTHER SITE WORK SHALL BE INCORPORATED AS SOON AS POSSIBLE.
4. THE CONTRACTOR SHALL MAINTAIN TEMPORARY APPROACHES OR CROSSINGS IN A SAFE CONDITION AT INTERSECTIONS WITH STREETS, BUSINESSES, PARKING LOTS, AND RESIDENCES.
5. ALL EXISTING TRAFFIC SIGNS WITHIN THE PROPOSED CONSTRUCTION LIMITS ARE TO BE PROTECTED BY THE CONTRACTOR. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS WHERE DIRECTED. IF THE SIGNS ARE DAMAGED BEYOND USE, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL EXISTING PAVEMENT MARKING DAMAGED OR REMOVED SHALL BE REPLACED TO MATCH EXISTING.
6. THE CONTRACTOR SHALL PROVIDE A COURSE OF ACTION PLAN FOR THE OCCURRENCE OF AN ACCIDENTAL SPILL OF FUEL OR OTHER SUBSTANCE DURING CONSTRUCTION. ACTION PLAN SHALL BE SUBMITTED TO OWNER FOR ACCEPTANCE.
7. ALL FIELD LAYOUT AND SURVEYING FOR CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE; UNDER THE DIRECTION OF A LICENSED PROFESSIONAL LAND SURVEYOR.
8. ELEVATIONS SHOWN ON PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
9. PROPERTY MARKERS SHALL BE PROTECTED BY THE CONTRACTOR. THE CONTRACTOR'S REGISTERED SURVEYOR SHALL REPLACE ANY MARKERS THAT ARE DISTURBED.
10. THE CONTRACTOR'S SURVEYOR SHALL REPLACE ANY SURVEY MONUMENTS, PERMANENT MARKERS, OR TEMPORARY MARKERS WHICH ARE DAMAGED DURING CONSTRUCTION.
11. IF EITHER A THREATENED OR ENDANGERED PLANT OR ANIMAL SPECIES IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER OF RECORD.
12. MAIL SERVICE SHALL NOT BE INTERRUPTED ALONG THE CONSTRUCTION ROUTE. THIS MAY INCLUDE RELOCATION OF MAILBOXES THAT MAY BE AFFECTED BY CONSTRUCTION AND ALLOWING ACCESS TO UNITED STATES POSTAL SERVICE VEHICLES AND EMPLOYEES.
13. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN 10 FEET OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. NO OPEN TRENCH SHALL BE PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICHEVER IS GREATER.
14. THE CONTRACTOR SHALL CONFORM TO ALL SAFETY REQUIREMENTS OF POWER UTILITIES WHEN WORKING IN THE VICINITY OF OVERHEAD AND UNDERGROUND POWER UTILITIES.
15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT HORIZONTAL AND VERTICAL TRANSITION OF PIPELINE BY DEFLECTION OF PIPE JOINTS USING NOT MORE THAN 75% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.
16. SHOP DRAWINGS SHALL BE FURNISHED FOR APPROVAL OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL FITTINGS PRIOR TO FABRICATION OR DELIVERY TO JOB SITE.
17. CONTRACTOR TO FOLLOW MANATEE COUNTY PUBLIC UTILITIES DEPARTMENT (MCPUD) APPROVED PRODUCTS AND MATERIALS, TECHNICAL SPECIFICATIONS AND STANDARD DETAILS. LATEST EDITION CAN BE FOUND ON MCPUD WEBSITE.
18. CONTRACTOR SHALL PROVIDE TEMPORARY THRUST RESTRAINT, BRACING, TESTING PLUGS, AND OTHER DEVICES NECESSARY TO SUCCESSFULLY COMPLETE PRESSURE TESTING OF PIPING SYSTEMS.

19. ALL PROPOSED DUCTILE IRON PIPE AND FITTINGS WITHIN PROJECT LIMITS SHALL BE WRAPPED IN POLYETHYLENE WRAP IN ACCORDANCE WITH AWWA STANDARD C-105. SOME SECTIONS OF DUCTILE IRON PIPE SHALL BE WRAPPED WITH TWO (2) LAYERS OF POLYETHYLENE WRAP WHERE INDICATED ON THE DRAWINGS. POLYETHYLENE WRAP SHALL BE INCLUDED IN THE PRICE OF THE PIPE.
20. ALL EXISTING SEWER MAINS IDENTIFIED TO BE REMOVED OR PLACED OUT OF SERVICE CANNOT BE REMOVED OR PLACED OUT OF SERVICE UNTIL PROPOSED FACILITIES HAVE BEEN CONSTRUCTED, TESTED, PERMITTED, CLEARED, AND PLACED IN SERVICE. TIME IDENTIFIED IN THE SCHEDULE FOR EXISTING UTILITIES TO BE REMOVED SHALL COMMENCE WITHIN SEVEN (7) DAYS AFTER CLEARANCE HAS BEEN OBTAINED IN WRITING BY THE COUNTY FROM THE PERMITTING AGENCY.
21. SANITARY SEWER SERVICE AND WATER SERVICE MUST BE MAINTAINED FOR ALL CUSTOMERS AT ALL TIMES, EXCEPT FOR MINOR DISRUPTIONS DURING CONNECTIONS CHANGEOVERS AS NOTED IN GENERAL NOTES. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS WITH COUNTY OPERATIONS STAFF. MANATEE COUNTY PUBLIC UTILITIES DEPARTMENT (941) 792-8811 EXT. 5374.
22. CONTRACTOR MUST OBTAIN RIGHT OF USE PERMIT FROM MANATEE COUNTY RIGHT-OF-WAY PERMIT MANAGEMENT OFFICE.
23. ALL UTILITY RELOCATION MUST BE IN PLACE, TESTED, PERMITTED, CLEARED AND OPERATIONAL PRIOR TO ROADWAY CONSTRUCTION BY OTHERS THAT IMPACTS EXISTING UTILITIES.
24. IN THE EVENT OF A WATER OR SEWER MAIN BREAK, CALL 24 HOUR EMERGENCY NUMBER (941) 792-8811 EXT. 5268.
25. CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF SHOP DRAWINGS, CONSTRUCTION SCHEDULE AND THE FOLLOWING PLANS PRIOR TO BEGINNING CONSTRUCTION (NOT LIMITED TO):
 - A. SHUTDOWN SCHEDULE AND PLAN TO INCLUDE BUT NOT LIMITED TO PIPE DEWATERING AND DISPOSAL PLANS; CONNECTION SCHEDULE FOR WATER MAINS (INCLUDING LINESHOPS); SAMPLING PLAN AND LOCATIONS FOR BACTERIOLOGICAL TESTING; PRESSURE TESTING SCHEDULE; LINESHOP LOCATIONS.
26. CONTRACTOR TO COORDINATE WITH FLORIDA POWER & LIGHT (FPL) FOR POWER POLES NEEDING SUPPORT DURING CONSTRUCTION. CONTRACTOR TO TAKE PRECAUTIONS TO PROTECT ALL UTILITIES AND UTILITY POLES.
27. ALL ROAD CROSSINGS SHALL BE OPEN CUT.
28. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PROCESS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE.
29. PLAN STATIONING FOR ISOLATION VALVES AND AIR RELEASE VALVES IS APPROXIMATE. THE CONTRACTOR SHALL INSTALL ALL REQUIRED AIR RELEASE VALVES AT THE HIGHEST ACTUAL POINT(S) IN THE PIPELINE. LOCATIONS OF ISOLATION VALVES AND AIR RELEASE VALVES MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION.
30. CONNECTIONS TO WATER MAINS WILL BE PERFORMED DURING NON-PEAK HOURS (9:00 PM TO 6:00 AM). CONNECTIONS SHALL NOT BE SCHEDULED DURING COUNTY HOLIDAYS, WEEKENDS, WITHIN 72 HOURS OF POSSIBLE HURRICANE OR TROPICAL STORM LANDING, OR DURING TIMES WHEN COUNTY HAS INITIATED AN EMERGENCY ALERT.
31. NO PIPES OF ANY KIND ATTACHED TO ACTIVE OR IN SERVICE WATER, WASTEWATER, RECLAIMED WATER SYSTEMS MAY BE LEFT OPEN. PIPE MUST BE CAPPED OR PLUGGED AND RESTRAINED.
32. PIPELINES INCLUDING EXISTING WATER MAIN ARE TO BE RESTRAINED IN ACCORDANCE WITH MANATEE COUNTY STANDARDS UNLESS OTHERWISE NOTED.
33. OPEN CUT SERVICE CONNECTION SHALL BE RESTORED PER MANATEE COUNTY DETAIL 403.3.

SURVEYOR'S NOTES:

1. THE FOLLOWING NGS VERTICAL CONTROL MONUMENTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN:
 DESIGNATION "PALM SHORES", NAVD 88 ELEV.=5.43'
 DESIGNATION "PORT ST JOHN", NAVD 88 ELEV.=3.91'
2. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT).
3. PARCEL IDENTIFICATION NUMBERS SHOWN ARE FROM THE MANATEE COUNTY MOBILE GEOGRAPHIC INFORMATION SERVER ON SEPTEMBER 4, 2018.
4. THIS IS NOT A BOUNDARY SURVEY. TITLE WORK WAS NOT PROVIDED.
5. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.
6. RIGHT-OF-WAY LINES INDICATED HEREIN ARE BASED ON AVAILABLE PUBLIC RECORD INFORMATION TOGETHER WITH FOUND BOUNDARY MONUMENTATION.
7. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.
8. THIS SURVEY IS CERTIFIED TO AYRES ASSOCIATES AND THE MANATEE COUNTY GOVERNMENT.
9. THIS SURVEY WAS PROVIDED BY:
 HYATT SURVEY SERVICES, INC.
 11007 8TH AVE EAST
 BRADENTON, FL 34212
 (941) 748-4693

Control Table				
Point #	Northing	Easting	Elev.	Desc.
1	1172721.02	473150.84	8.81	CP IRS
2	1172759.14	472876.24	6.17	CP SIRC
3	1173033.44	472836.74	5.75	CP SIRC
4	1173265.83	472864.51	4.59	CP SIRC
5	1173534.48	472836.28	3.30	CP SIRC
6	1173748.88	472865.32	2.29	CP SIRC
7	1174281.37	472824.76	2.39	CP SIRC
8	1174023.56	472550.63	1.77	CP IRS
9	1173808.60	472405.04	2.46	CP NDS
10	1173544.88	472182.96	2.98	CP NDS
11	1173294.10	471969.49	3.25	CP NDS
12	1173273.59	472355.50	3.96	CP IRS
13	1173044.00	472383.75	5.52	CP IRS
14	1173052.47	471824.89	3.24	CP IRS
15	1172727.13	471865.09	3.69	CP NDS
16	1172725.52	472368.81	4.88	CP IRS
17	1172500.95	472834.64	7.04	CP NDS
18	1172480.08	472338.83	5.55	CP IRS
19	1172495.42	471871.44	4.47	CP NDS
21	1172230.68	472353.48	6.75	CP IRS
22	1172252.88	472834.72	8.83	CP NDS
23	1172007.24	472829.29	10.23	CP NDS
24	1171980.99	472341.93	8.20	CP IRS
25	1172007.41	471865.10	4.29	CP NDS
26	1171732.95	471886.68	5.20	CP NDS
27	1171755.42	472371.44	8.33	CP IRS
28	1171745.33	472857.86	11.61	CP IRS
29	1171488.38	472857.12	11.78	CP IRS
30	1171481.29	472338.78	8.90	CP IRS
31	1171507.41	471861.11	5.87	CP NDS
32	1171236.46	471885.86	7.31	CP NDS
33	1171211.94	472315.63	9.58	CP IRS
34	1171208.26	472829.68	11.66	CP NDS
35	1170958.74	472828.64	9.78	CP NDS
36	1170983.55	472336.23	8.98	CP IRS
37	1170963.54	471858.06	8.15	CP NDS
38	1170691.22	471884.26	7.78	CP NDS
41	1170537.49	472820.64	11.12	CP NDS
49	1170714.00	471568.44	6.27	CP NDS
50	1170708.91	471255.53	5.01	CP IRS
51	1170975.30	470803.93	3.61	CP IRS
53	1171243.27	470600.97	3.11	CP NDS
54	1171495.65	470573.66	3.28	CP IRS
55	1171741.56	470641.15	2.97	CP NDS
56	1172000.49	470688.25	3.23	CP IRS
57	1172257.38	470942.92	3.02	CP NDS
58	1172427.09	471263.18	3.24	CP NDS
59	1172556.74	471593.18	3.79	CP IRS
60	1172257.42	471594.72	4.76	CP NLD
61	1171986.21	471306.53	4.72	CP IRC
62	1171758.29	471266.86	3.64	CP IRS
63	1171485.62	471264.31	4.71	CP IRC
64	1171239.12	471298.59	5.07	CP IRC
65	1170989.77	471373.39	7.06	CP IRC

A:\Standard Job
 1/16/2019 10:00 AM
 Manatee County - Palmetto Point Water Main Replacement (66-0172.00 General Notes.dwg) Layout: 03

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

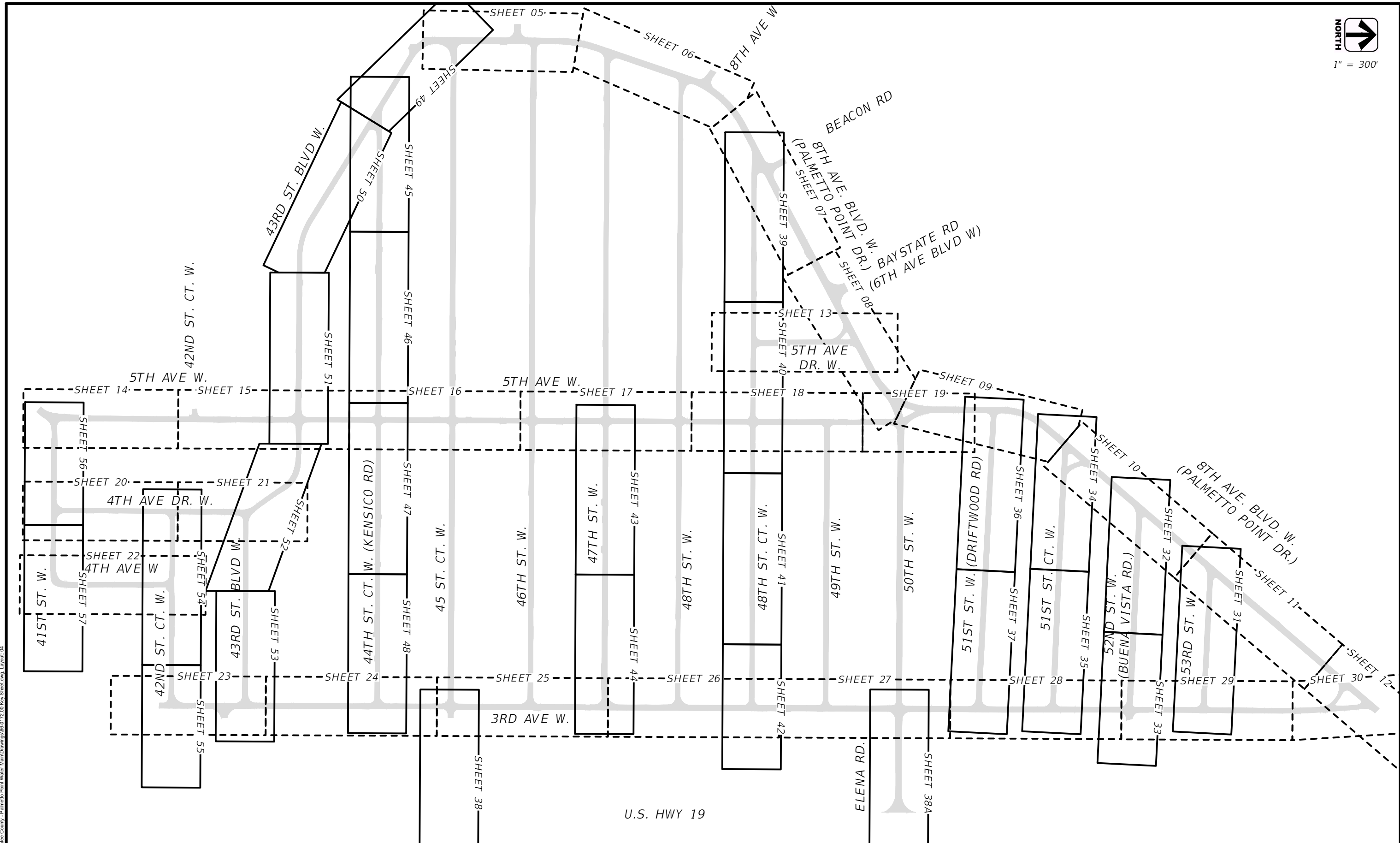
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



GENERAL NOTES

SHEET NO.
03

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



AA-Standard.dwg
 1/16/2017 10:00 - Manatee County - Palmetto Point Water Main Replacement 66-0172.00 Key Sheet.dwg - Layout 04

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

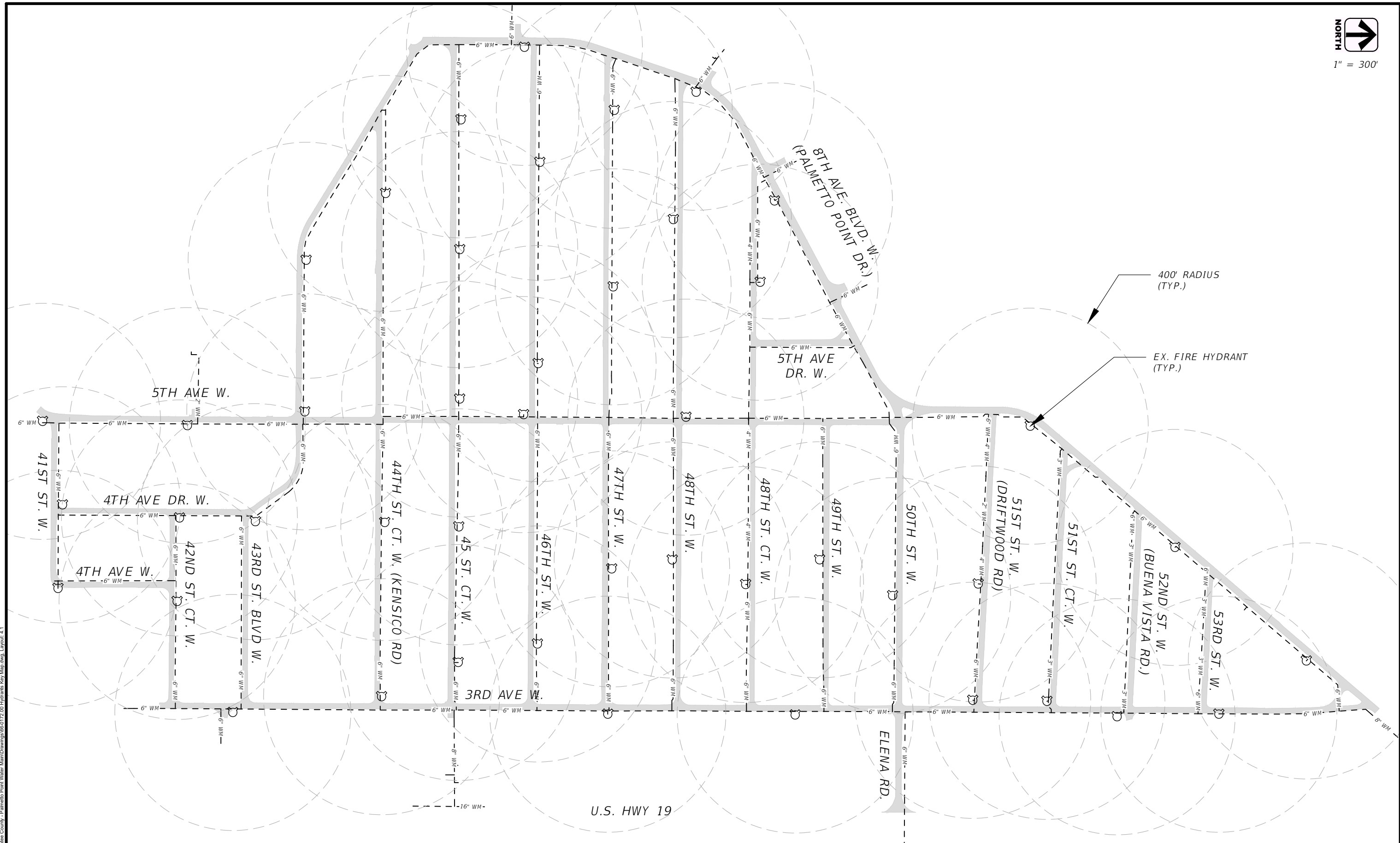
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



KEY SHEET

SHEET NO.
04

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



AA-Standard.sab
 DESIGNED BY: CKM
 DRAWN BY: AD
 CHECKED BY: CKM
 PROJECT NO: 66-0172.00
 DATE: NOV 2019
 MANATEE COUNTY - Palmetto Point Water Main Drawings 66-0172.00 Hydrants Key Map.dwg, Layout: 4.1

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

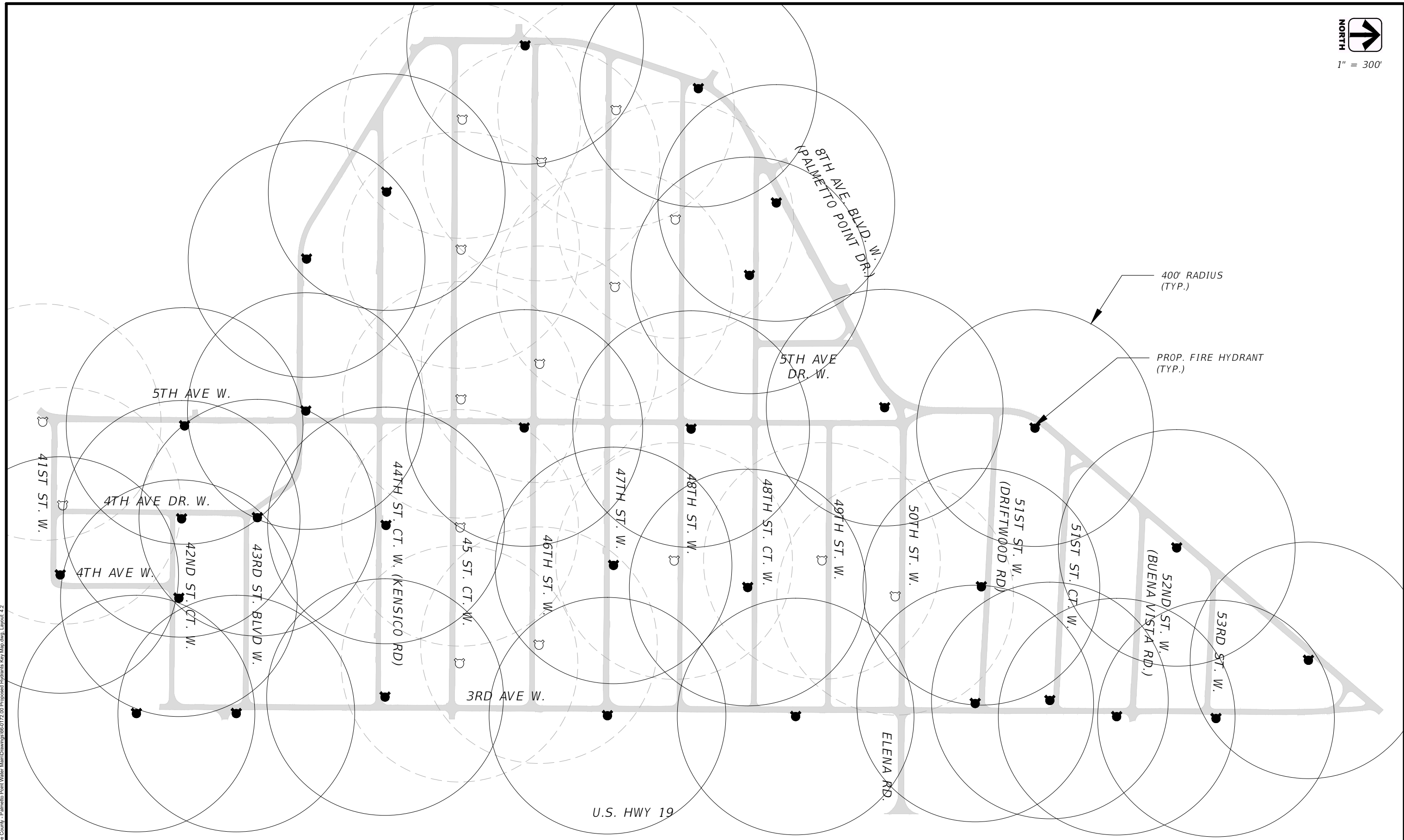
PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



OVERALL EXISTING FIRE HYDRANT COVERAGE MAP

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AA-Standard.dwg
 1/16/2017 10:00 AM
 Manatee County - Palmetto Point Water Main Drawings 66-0172.00 Proposed Hydrants Key Map.dwg, Layout: 4.2

DES BY	CKM	PROJ NO	66-0172.00		
DR BY	AD	DATE	NOV 2019	NO	DATE
CHK BY	CKM	REVISION			

CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

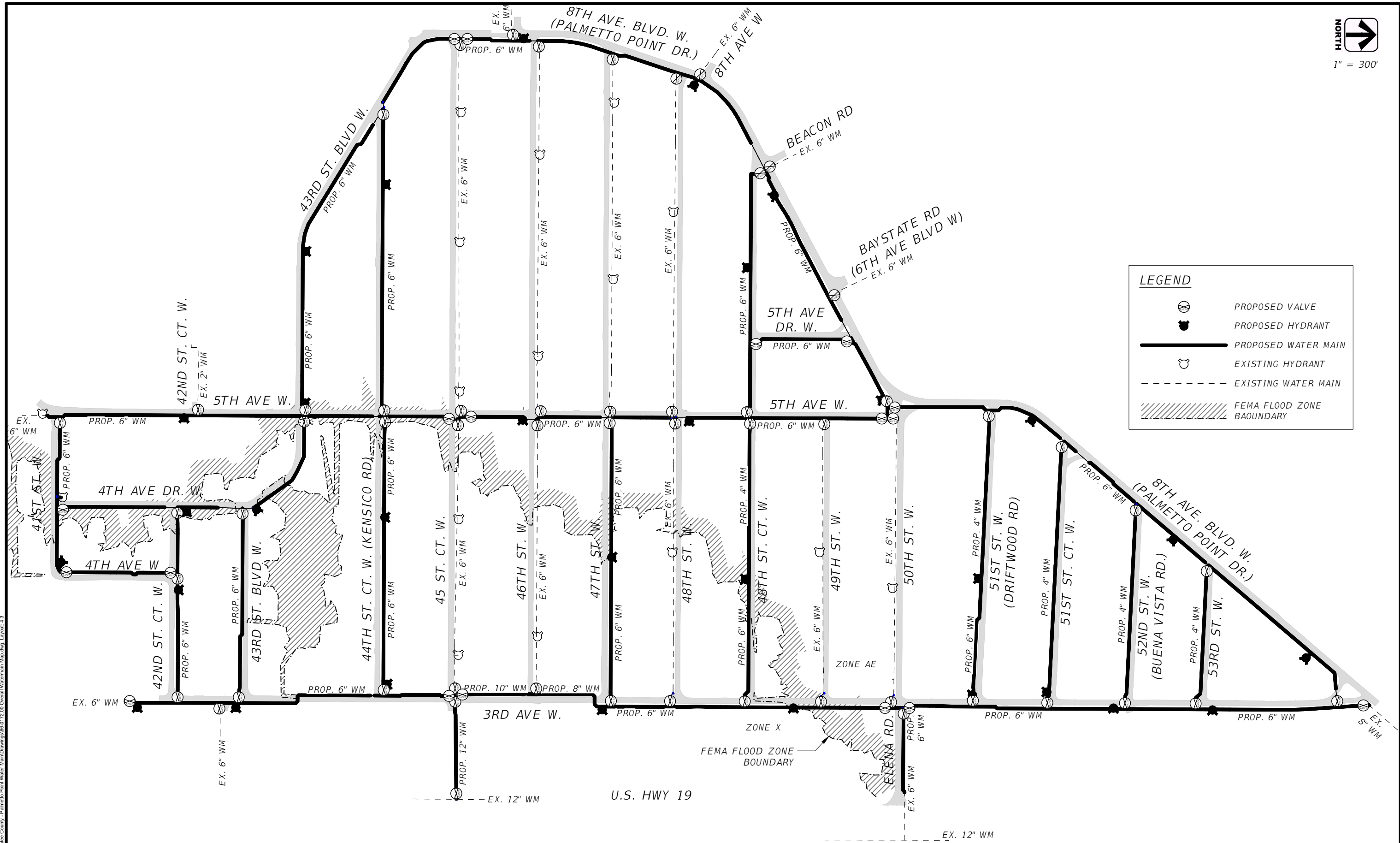
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS







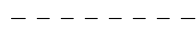
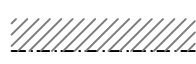
OVERALL PROPOSED FIRE HYDRANT COVERAGE MAP

SHEET NO.
4.2

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LEGEND

-  PROPOSED VALVE
-  PROPOSED HYDRANT
-  PROPOSED WATER MAIN
-  EXISTING HYDRANT
-  EXISTING WATER MAIN
-  FEMA FLOOD ZONE BOUNDARY

AA-Standard.dwg
 I:\66-0172-00 - Manatee County - Palmetto Point Water Main Drawings\66-0172-00 Overall Watermain Map.dwg, Layout: 4.3

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



OVERALL PROPOSED WATER MAIN MAP

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CURVE DATA Palmetto Point Dr (C1)
 PI STA. = 14+16.35
 DELTA = 18° 21' 36"
 D = 13° 28' 53"
 T = 68.68
 L = 136.19
 R = 425.00
 PC STA. = 13+47.67
 PT STA. = 14+83.86

CURVE DATA Palmetto Point Dr (C2)
 PI STA. = 19+43.14
 DELTA = 42° 02' 13"
 D = 16° 58' 15"
 T = 129.72
 L = 247.70
 R = 337.61
 PC STA. = 18+13.41
 PT STA. = 20+61.11

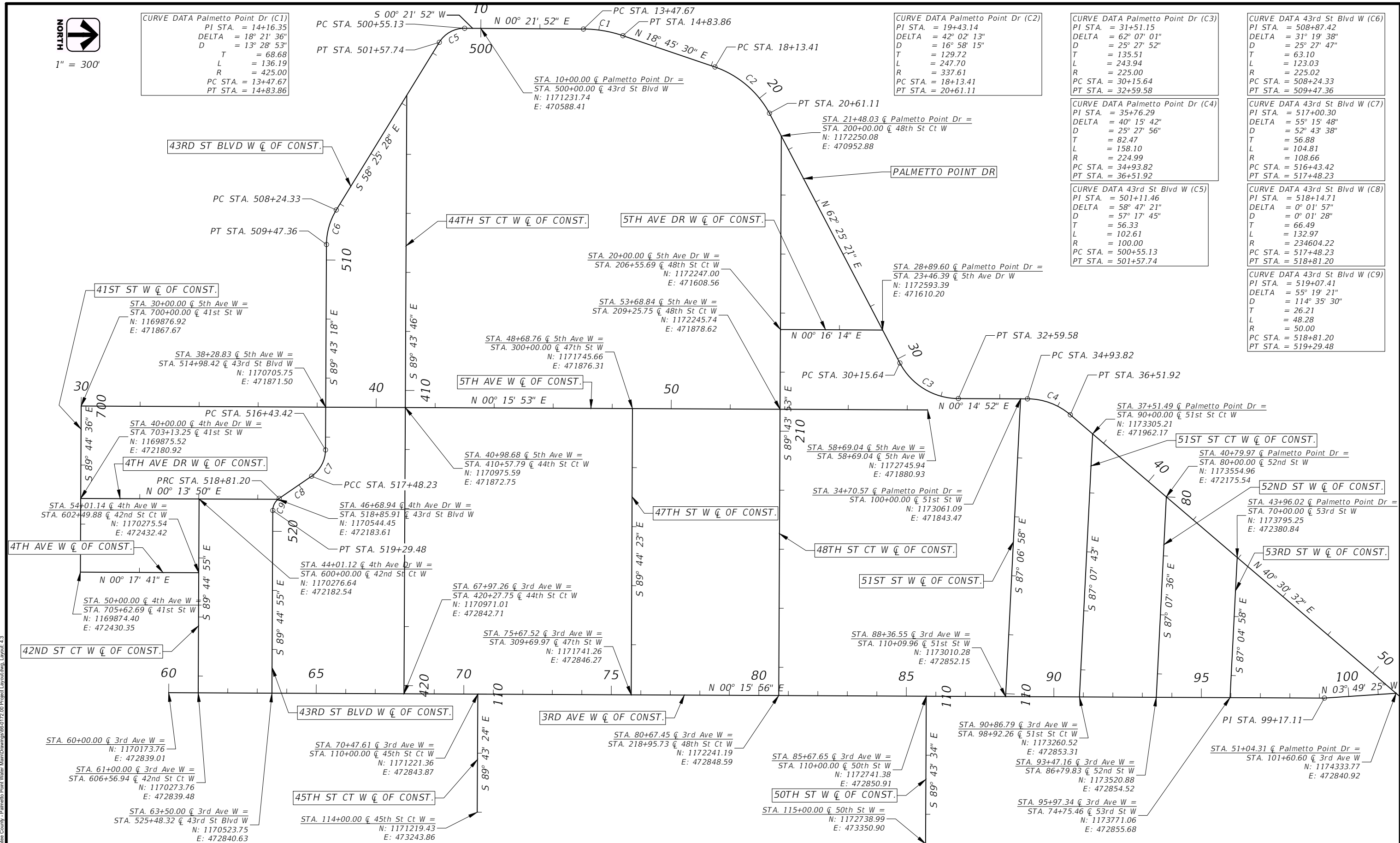
CURVE DATA Palmetto Point Dr (C3)
 PI STA. = 31+51.15
 DELTA = 62° 07' 01"
 D = 25° 27' 52"
 T = 135.51
 L = 243.94
 R = 225.00
 PC STA. = 30+15.64
 PT STA. = 32+59.58

CURVE DATA 43rd St Blvd W (C6)
 PI STA. = 508+87.42
 DELTA = 31° 19' 38"
 D = 25° 27' 47"
 T = 63.10
 L = 123.03
 R = 225.02
 PC STA. = 508+24.33
 PT STA. = 509+47.36

CURVE DATA 43rd St Blvd W (C7)
 PI STA. = 517+00.30
 DELTA = 55° 15' 48"
 D = 52° 43' 38"
 T = 56.88
 L = 104.81
 R = 108.66
 PC STA. = 516+43.42
 PT STA. = 517+48.23

CURVE DATA 43rd St Blvd W (C8)
 PI STA. = 518+14.71
 DELTA = 0° 01' 57"
 D = 0° 01' 28"
 T = 66.49
 L = 132.97
 R = 234604.22
 PC STA. = 517+48.23
 PT STA. = 518+81.20

CURVE DATA 43rd St Blvd W (C9)
 PI STA. = 519+07.41
 DELTA = 55° 19' 21"
 D = 114° 35' 30"
 T = 26.21
 L = 48.28
 R = 50.00
 PC STA. = 518+81.20
 PT STA. = 519+29.48



AA-Standard.dwg
 1/16/2020 10:00 AM - Manatee County - Palmetto Point Water Main Drawings/66-0172-00 Project Layout.dwg, Layout: 4.4

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

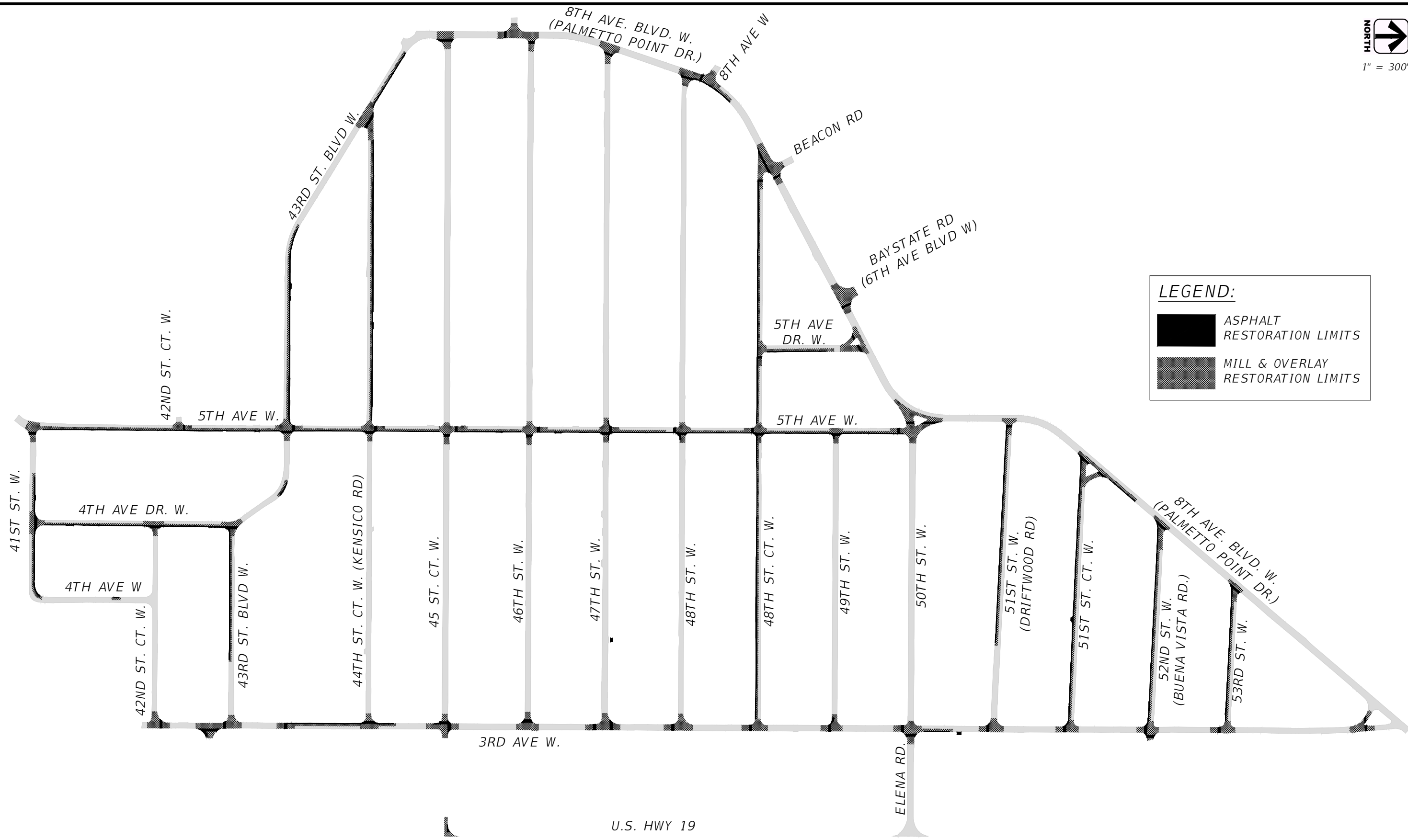
**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**





PROJECT LAYOUT

SHEET NO.	4.4
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND:

-  ASPHALT RESTORATION LIMITS
-  MILL & OVERLAY RESTORATION LIMITS

AA-Standard.dwg
 10/6/07 12:00 - Manatee County - Palmetto Point Water Main Drawings (66-0172.00 Overall Roadway Restoration Map.dwg Layout 4.5)

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

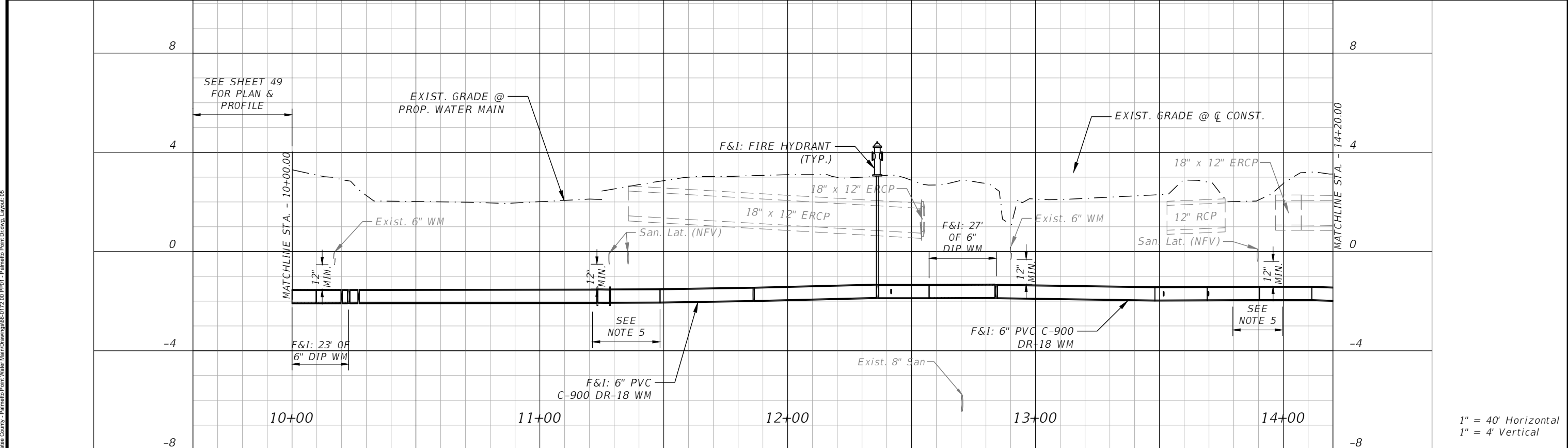
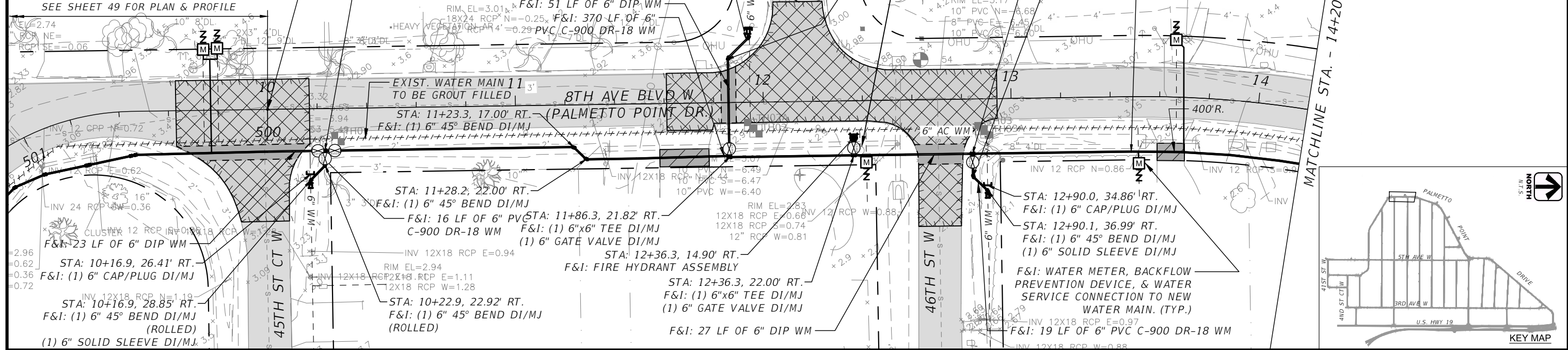
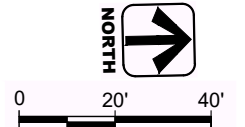


OVERALL ROADWAY RESTORATION MAP

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
 - VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.

STA. 10+00.00 @ PALMETTO POINT DR = (AHEAD)
 STA. 500+00.00 43RD ST BLVD W (BACK)



AA-Standard.dwg
 11/16/17 12:00 - Manatee County - Palmetto Point Water Main Drawing 66-0172.00 P001 - Palmetto Point Dr.dwg, Layout 05

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

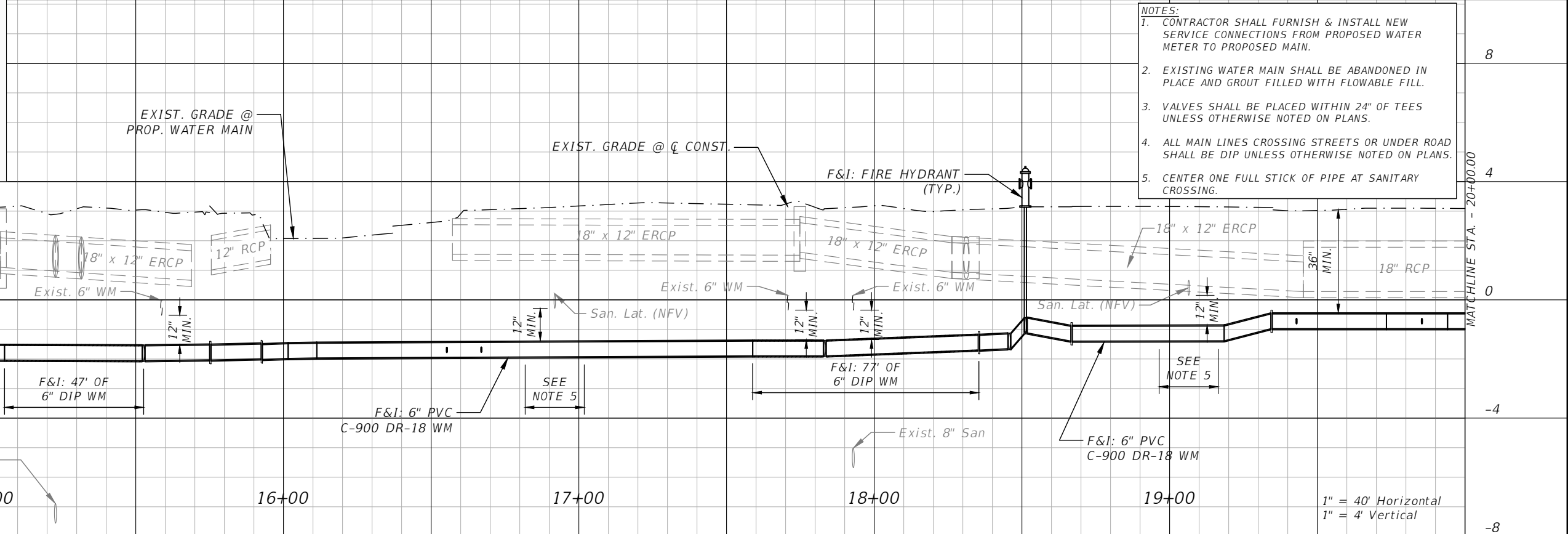
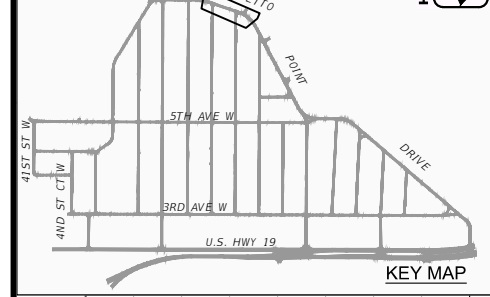
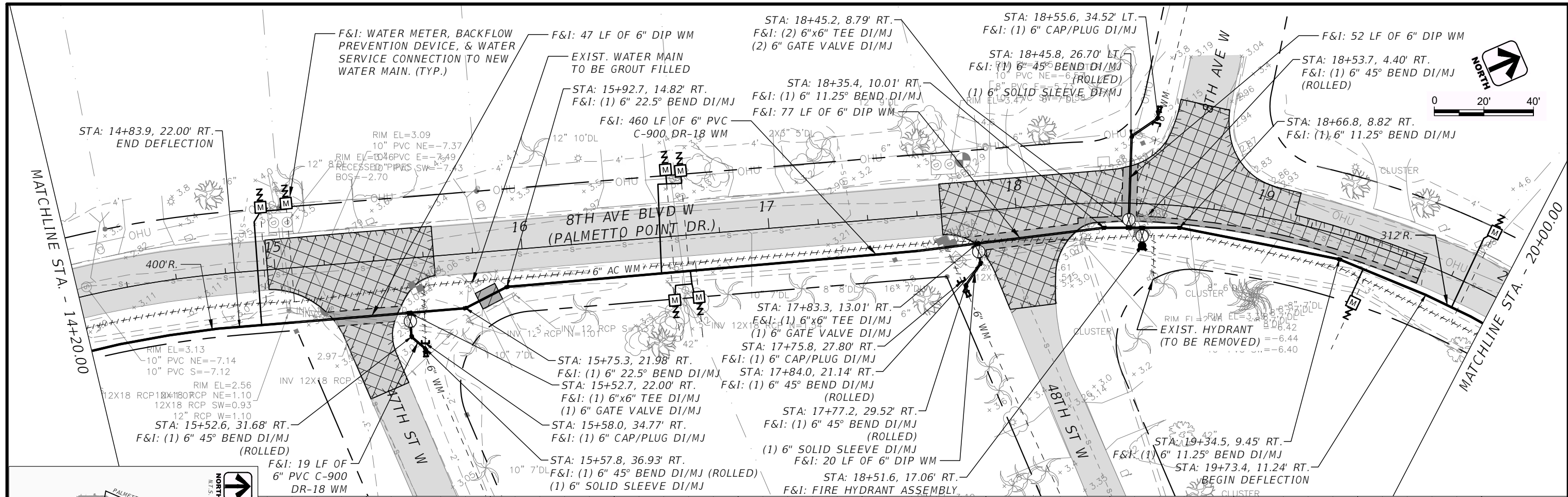


PLAN & PROFILE - PALMETTO POINT DR.

SHEET NO. 05

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1" = 40' Horizontal
 1" = 4' Vertical



- NOTES:**
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 2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
 3. VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 4. ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	1/17/2020
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
	AYRES ASSOCIATES
	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

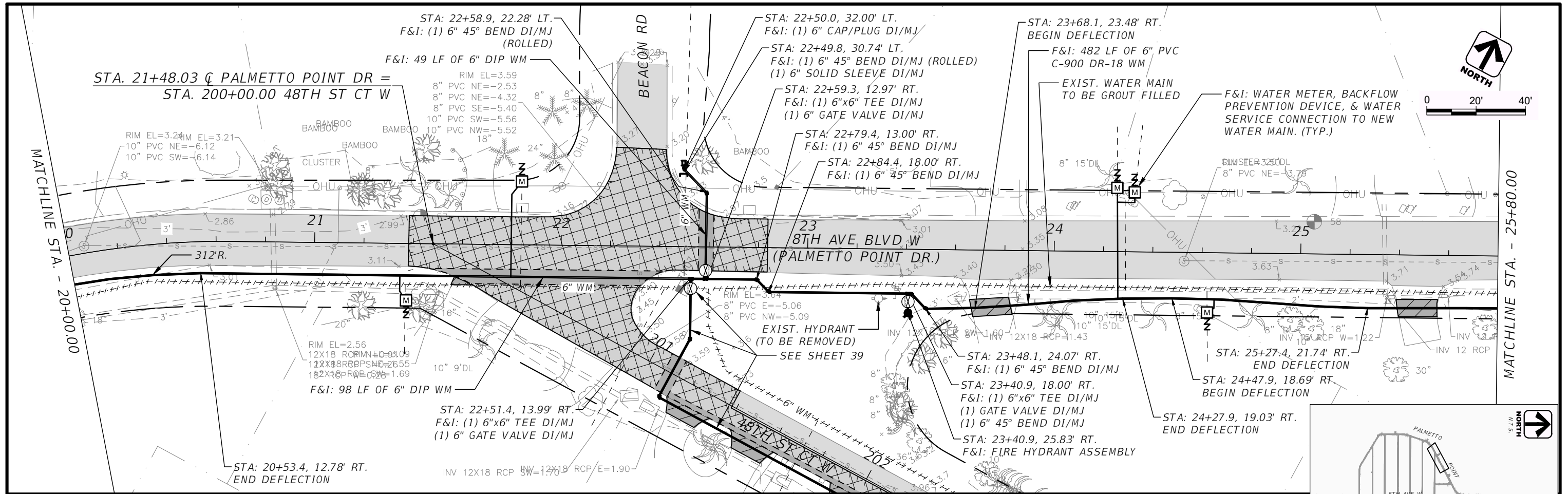
**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



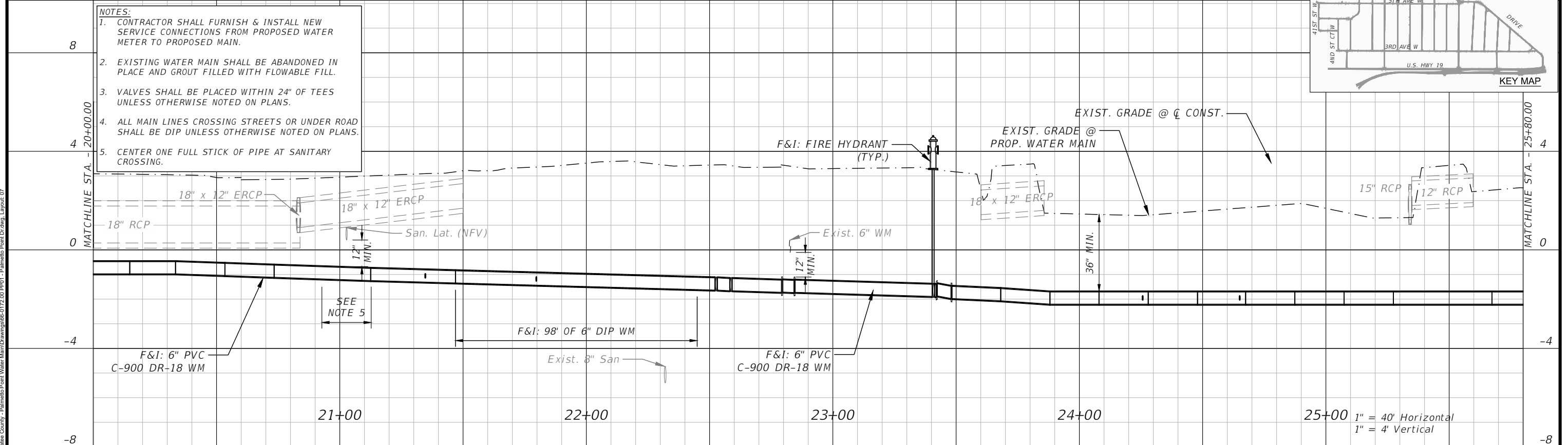
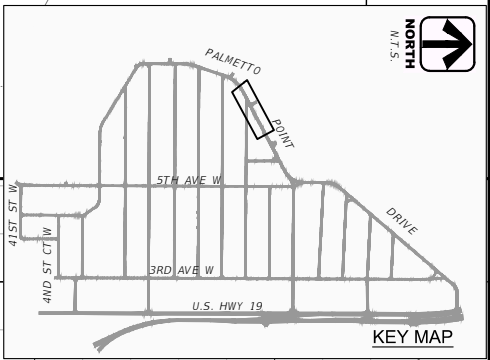
PLAN & PROFILE - PALMETTO POINT DR.

AA-Standard.dwg
N:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00-PP01 - Palmetto Point Dr.dwg, Layout.06

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.dwg
 11/16/17 02:00 - Manatee County - Palmetto Point Water Main Drawing Layout 07

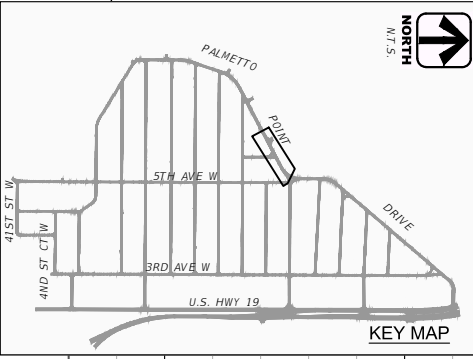
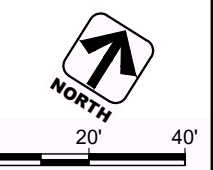
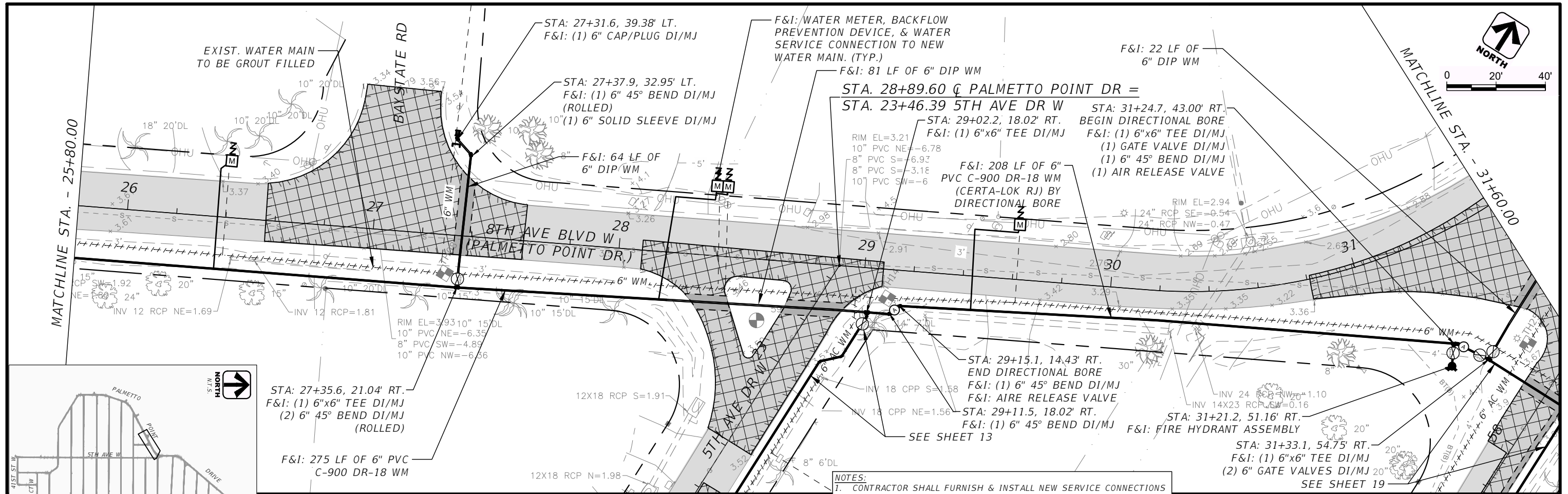
DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
	AYRES ASSOCIATES
	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

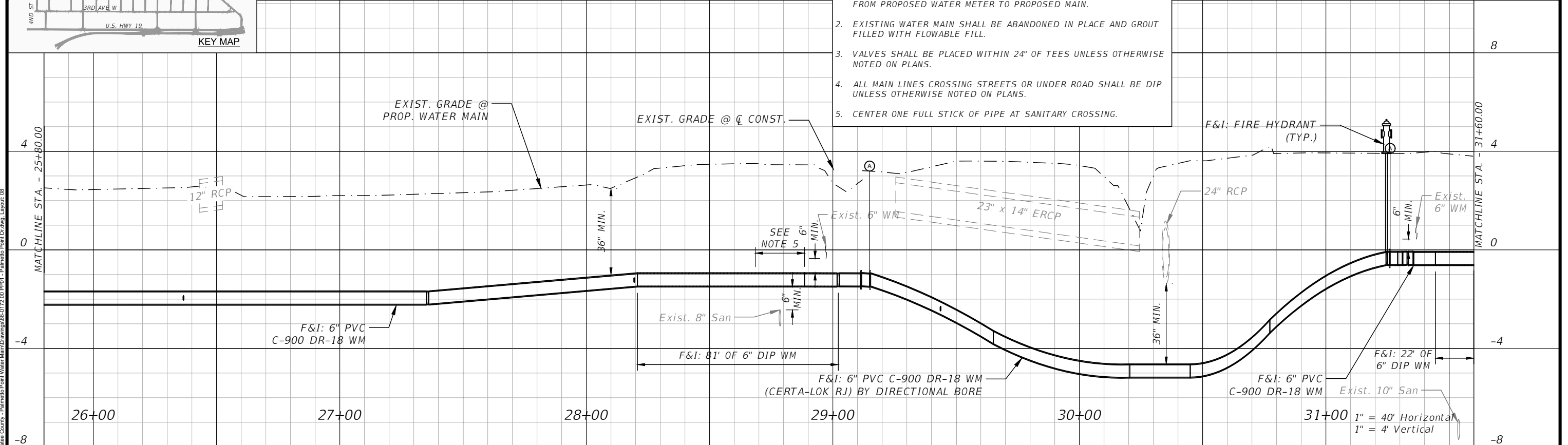
PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

PLAN & PROFILE - PALMETTO POINT DR.
 SHEET NO. 07

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.dwg
 6/16/2017 10:00 AM - Manatee County - Palmetto Point Water Main Drawing 66-0172.00 PPO1 - Palmetto Point Dr.dwg, Layout: 08

DES BY	CKM		
DR BY	AD	PROJ NO	66-0172.00
CHK BY	CKM	DATE	NOV 2019
		NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
	AYRES ASSOCIATES
	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

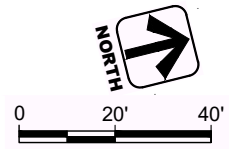
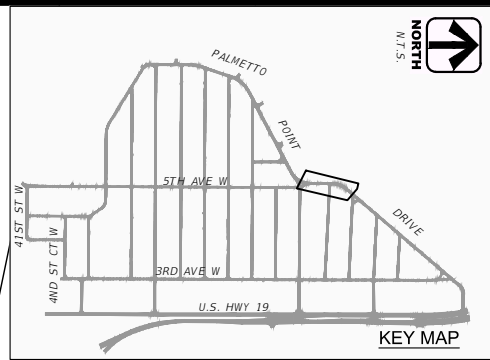
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



PLAN & PROFILE - PALMETTO POINT DR.

SHEET NO. **08**

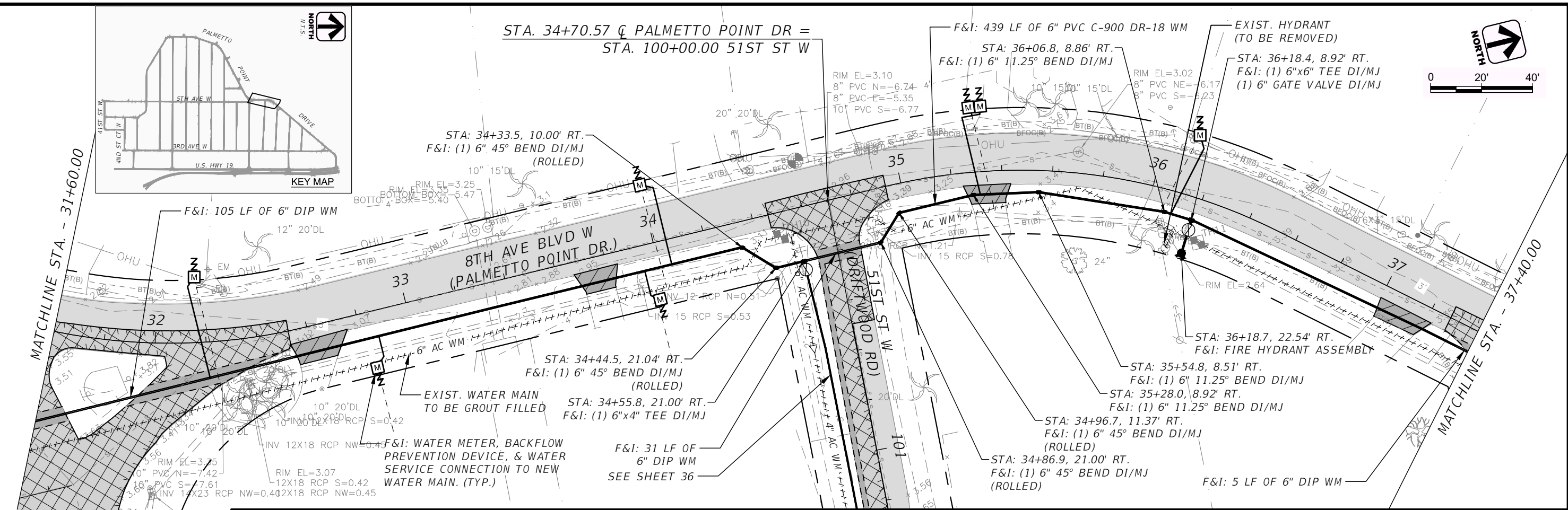
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



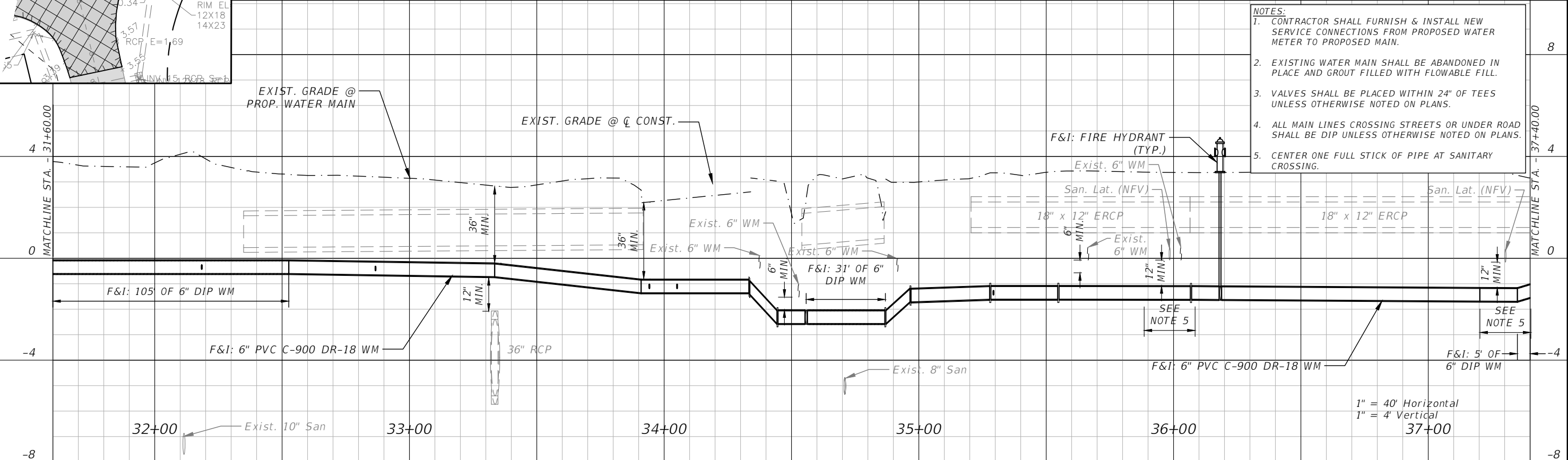
STA. 34+70.57 \bar{C} PALMETTO POINT DR =
STA. 100+00.00 51ST ST W

MATCHLINE STA. - 31+60.00

MATCHLINE STA. - 37+40.00



- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
 - VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.dwg
N:\06-172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00-PP01 - Palmetto Point Dr.dwg, Layout_08

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

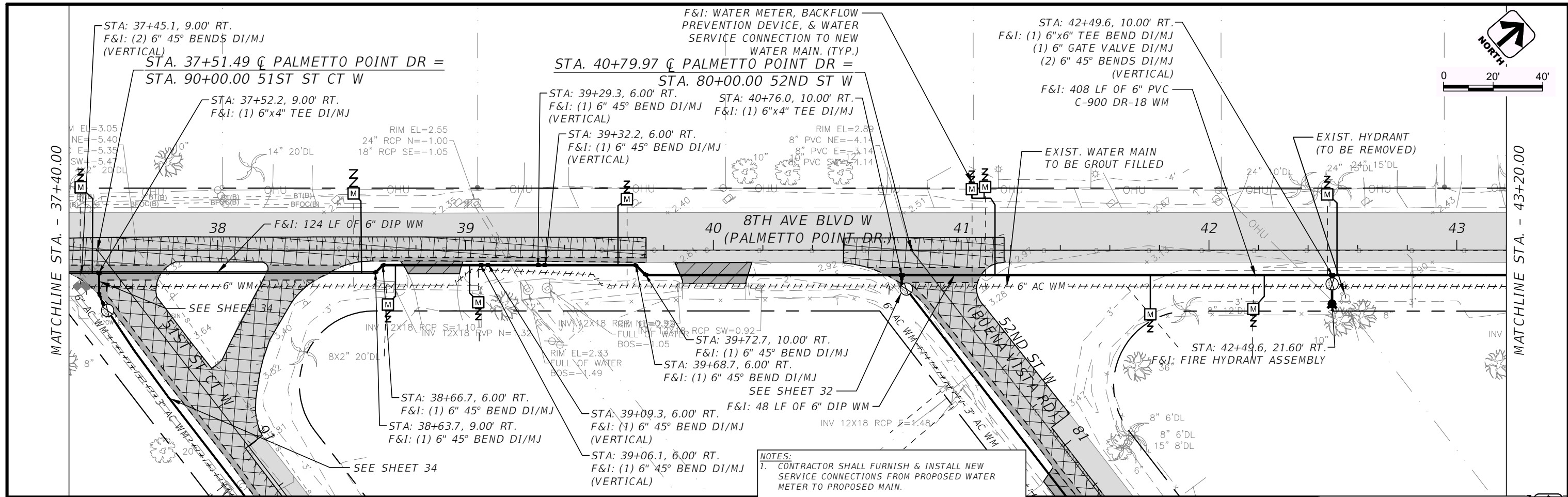
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



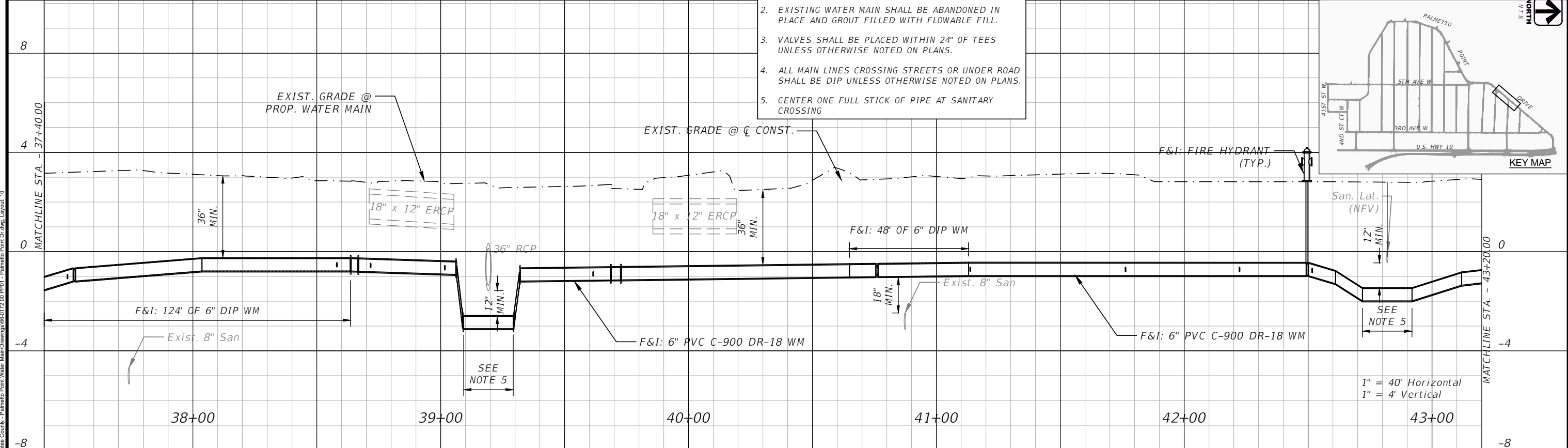
PLAN & PROFILE - PALMETTO POINT DR.

SHEET NO. **09**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
	AYRES ASSOCIATES
	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



PLAN & PROFILE - PALMETTO POINT DR.

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STA. 43+96.02 \bar{C} PALMETTO POINT DR =
STA. 70+00.00 53RD ST W

STA: 43+96.0, 10.00' RT.
F&I: (1) 6"x4" TEE DI/MJ
(ROLLED)

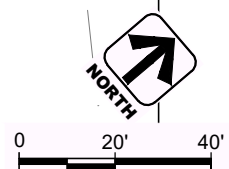
F&I: WATER METER, BACKFLOW
PREVENTION DEVICE, & WATER
SERVICE CONNECTION TO NEW
WATER MAIN. (TYP.)

STA: 48+54.0, 9.99' RT.
F&I: (1) 6"x6" TEE DI/MJ
(1) 6" GATE VALVE DI/MJ

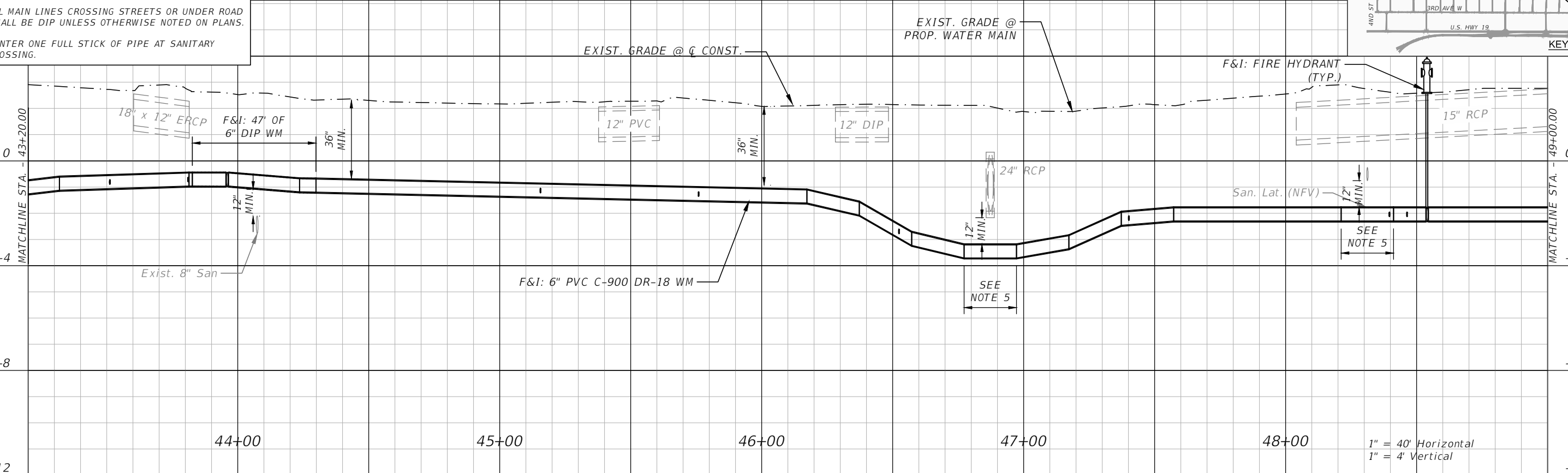
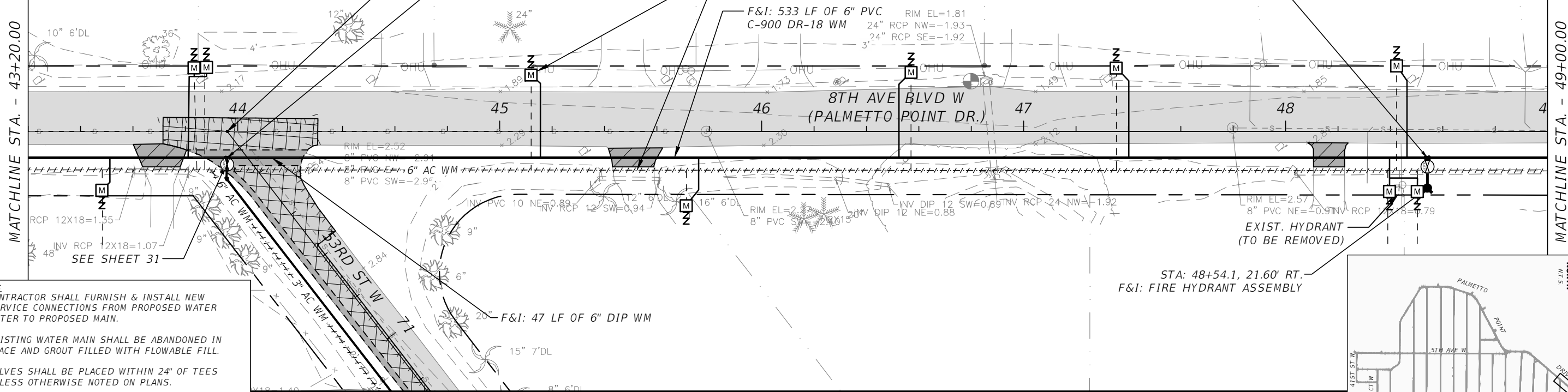
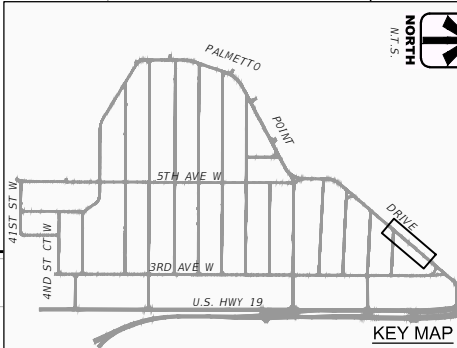
EXIST. WATER MAIN
TO BE GROUT FILLED
F&I: 533 LF OF 6" PVC C-900
DR-18 WM RIM EL=1.81
24" RCP NW=-1.93
3' 24" RCP SE=-1.92

MATCHLINE STA. - 43+20.00

MATCHLINE STA. - 49+00.00



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AA-Standard.dwg
J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 FP01 - Palmetto Point Dr.dwg, Layout: 11

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
	AYRES ASSOCIATES
	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

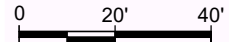
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



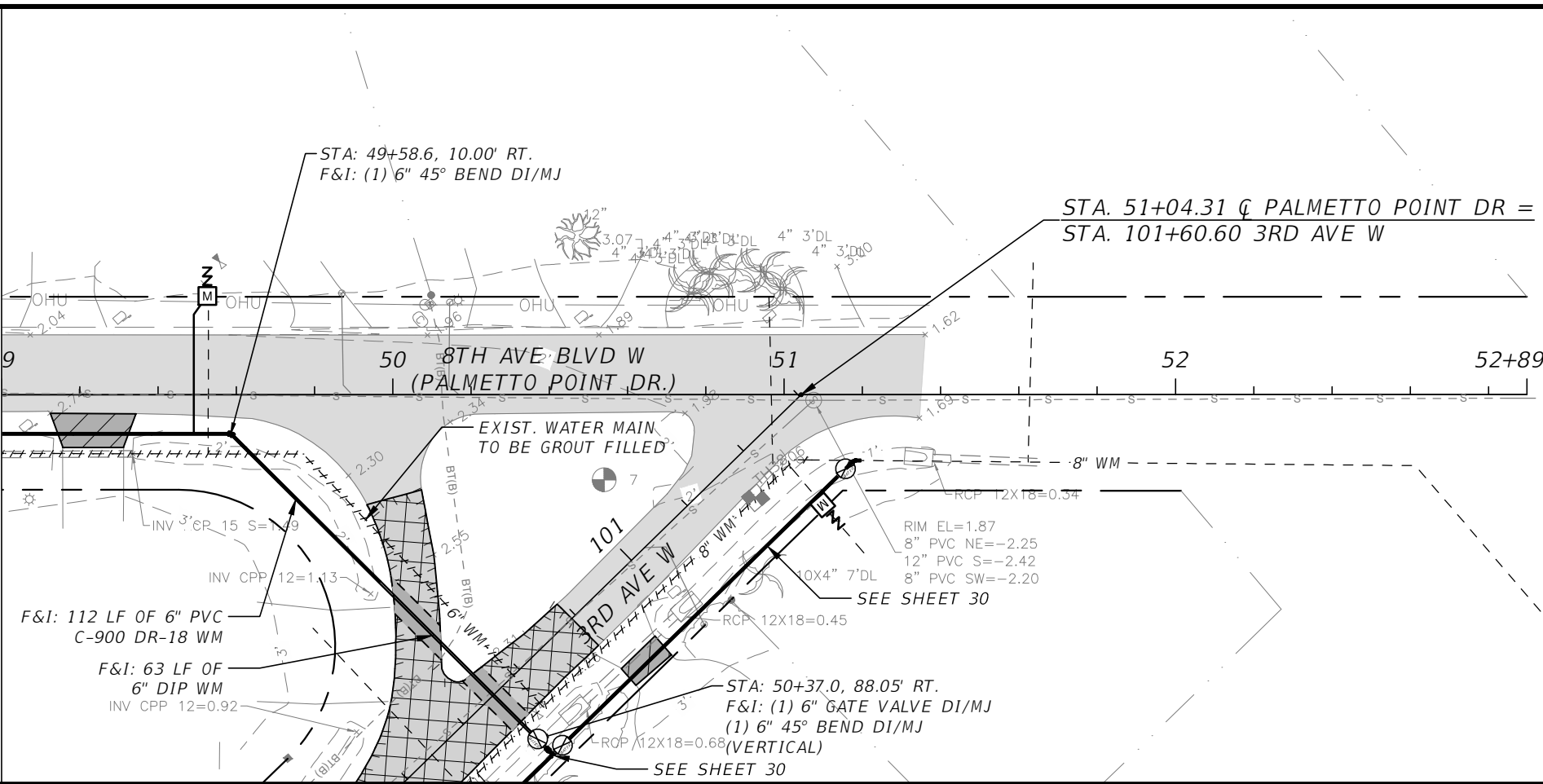
PLAN & PROFILE - PALMETTO POINT DR.

SHEET NO.
11

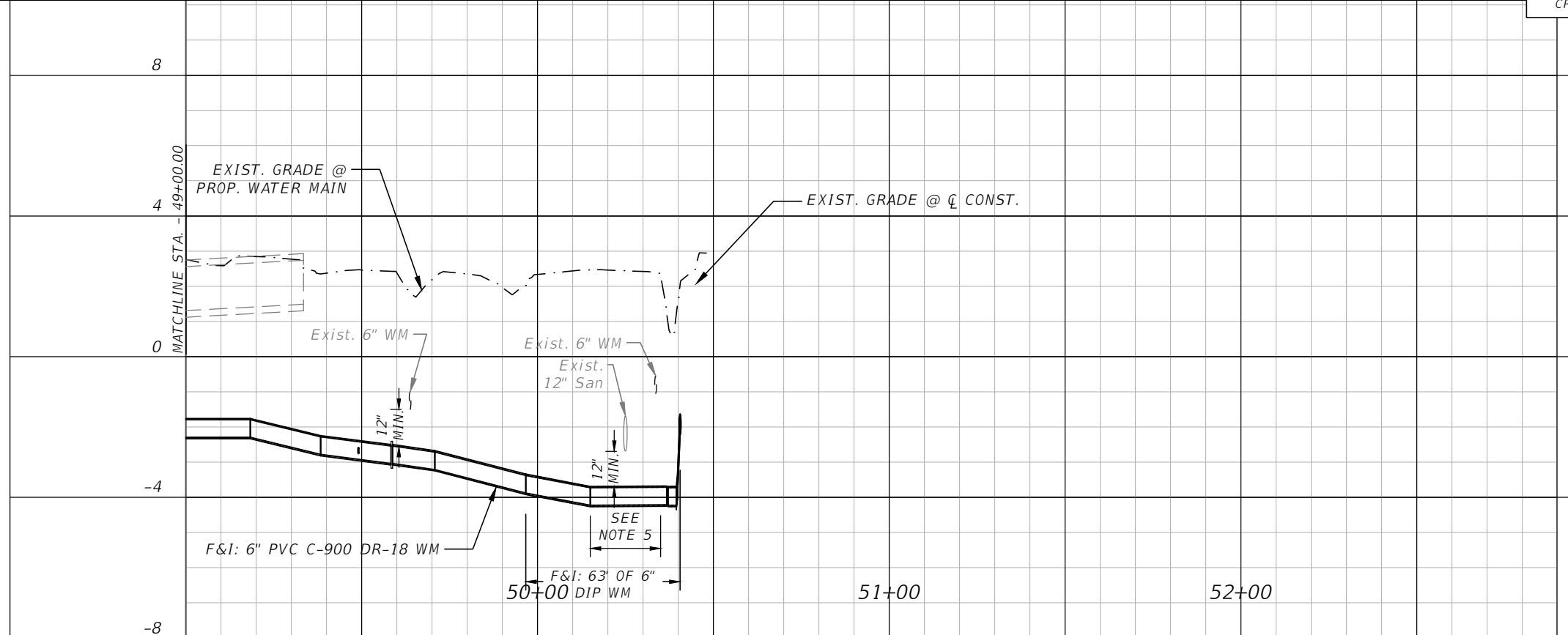
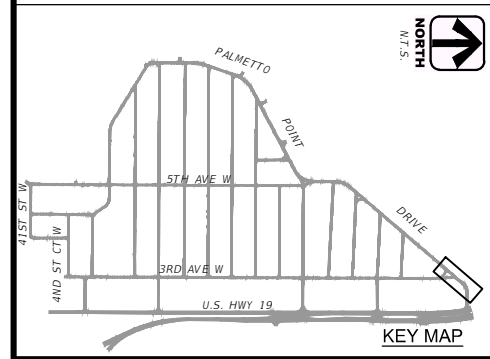
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MATCHLINE STA. - 49+00.00



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1" = 40' Horizontal
1" = 4' Vertical

AK-Standard.sib
J:\66-0172-00-Manatee County-Palmetto Point Water Main Drawings\66-0172-00-FP01 - Palmetto Point Dr.dwg, Layout: 12

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

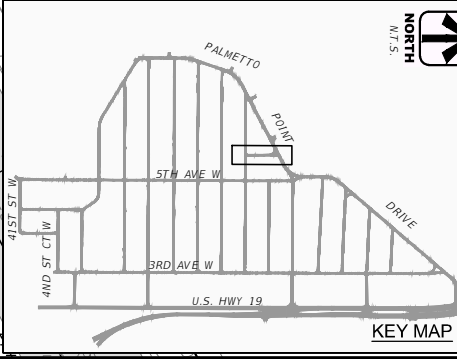
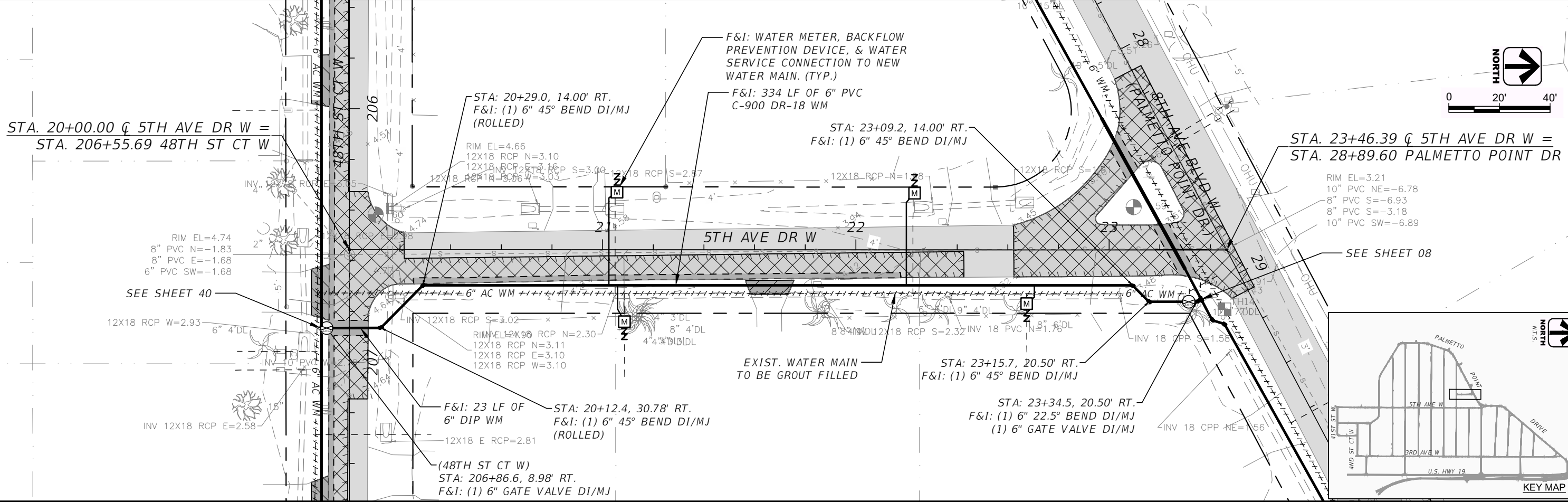
**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



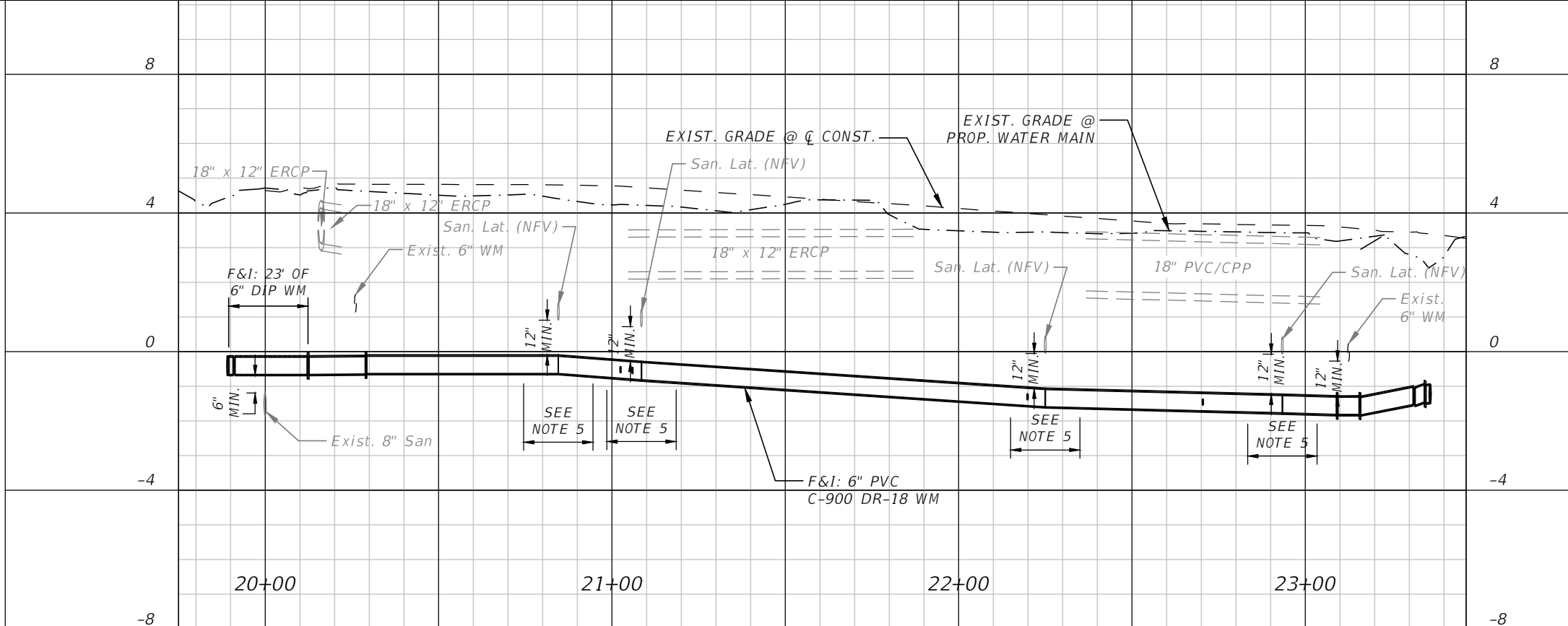
PLAN & PROFILE - PALMETTO POINT DR.

SHEET NO.
12

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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1" = 40' Horizontal
1" = 4' Vertical

AA-Standard.sib
J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 FPO2 - 5th Ave Dr W.dwg, Layout: 13

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	1/16/2020
CHK BY	CKM	NO	DATE
		REVISION	

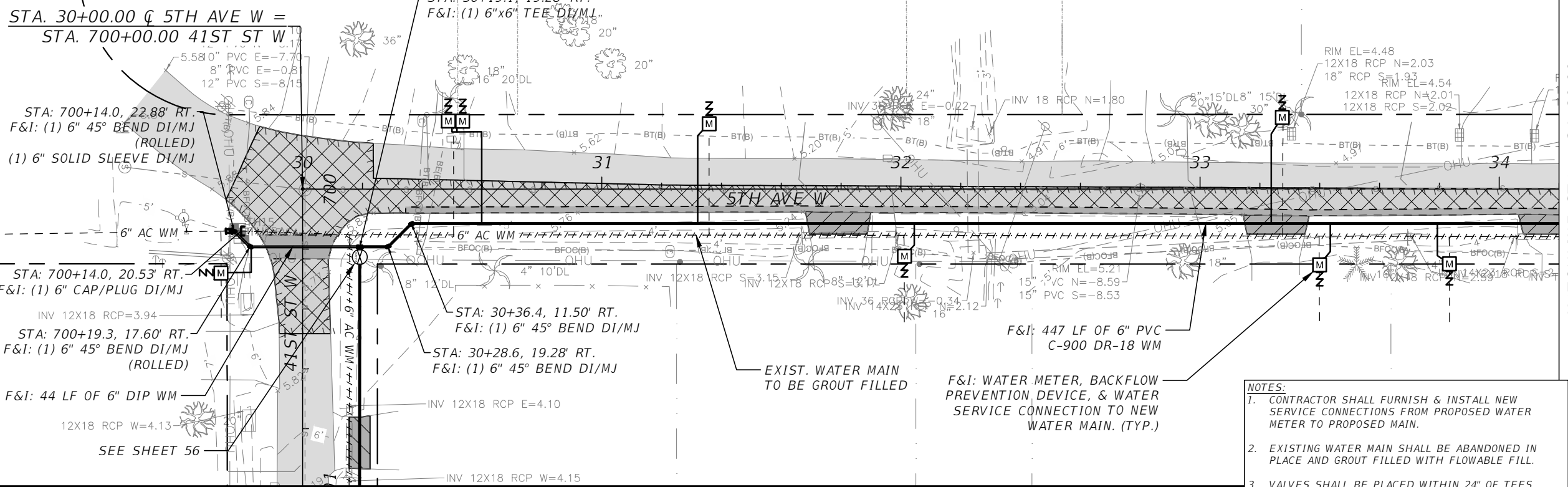
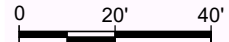
PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

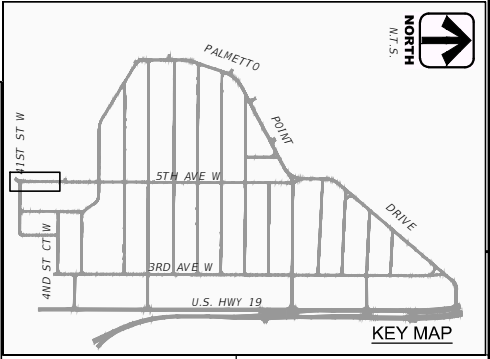
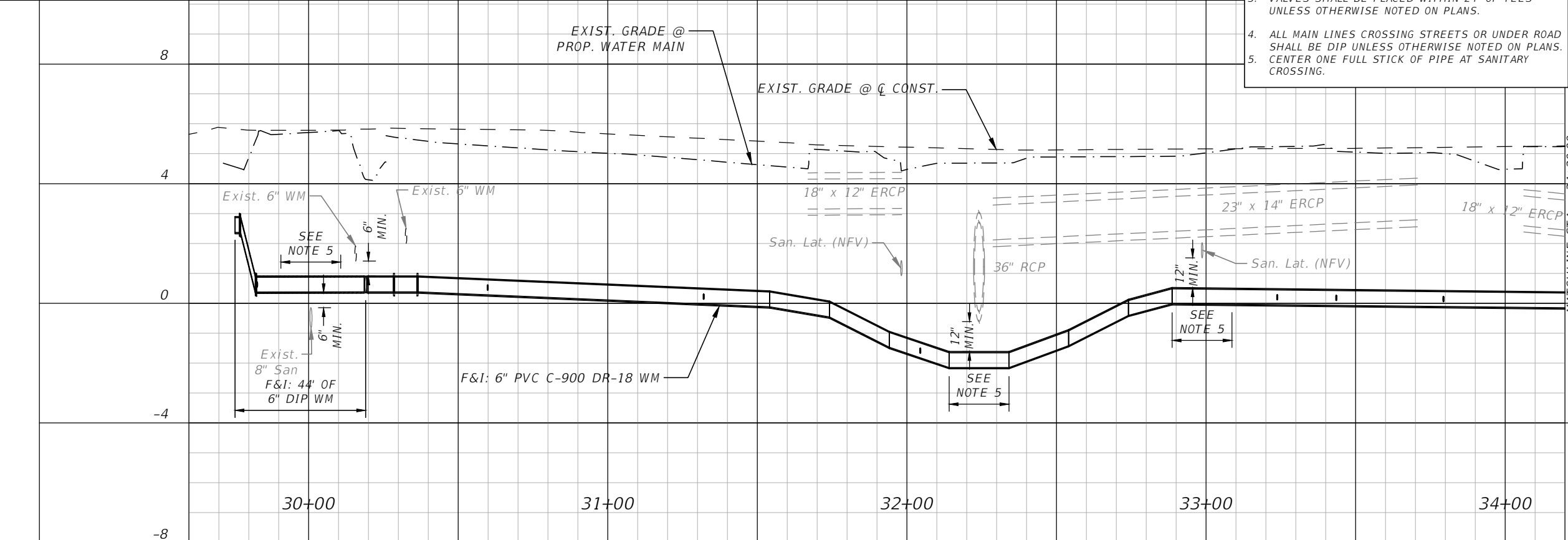


PLAN & PROFILE - 5TH AVE. DR. W.
SHEET NO. 13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 34+20.00



KEY MAP

- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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MATCHLINE STA. - 34+20.00

-8

1" = 40' Horizontal
1" = 4' Vertical

AK-Standard.dwg
J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00-FP03 - 5th Ave W.dwg, Layout: 14
J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00-FP03 - 5th Ave W.dwg, Layout: 14

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

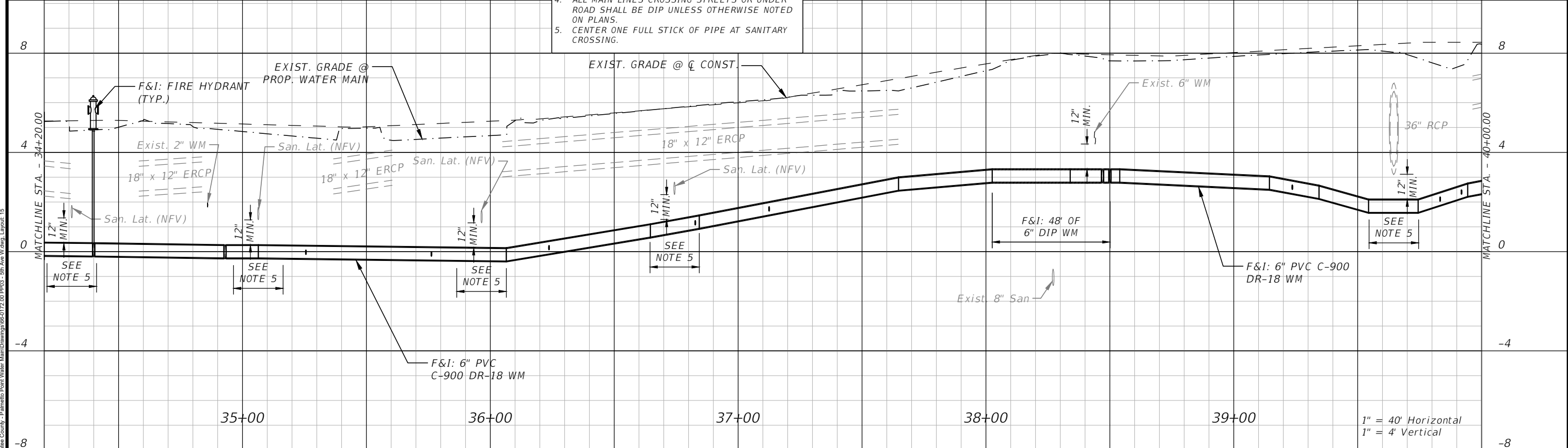
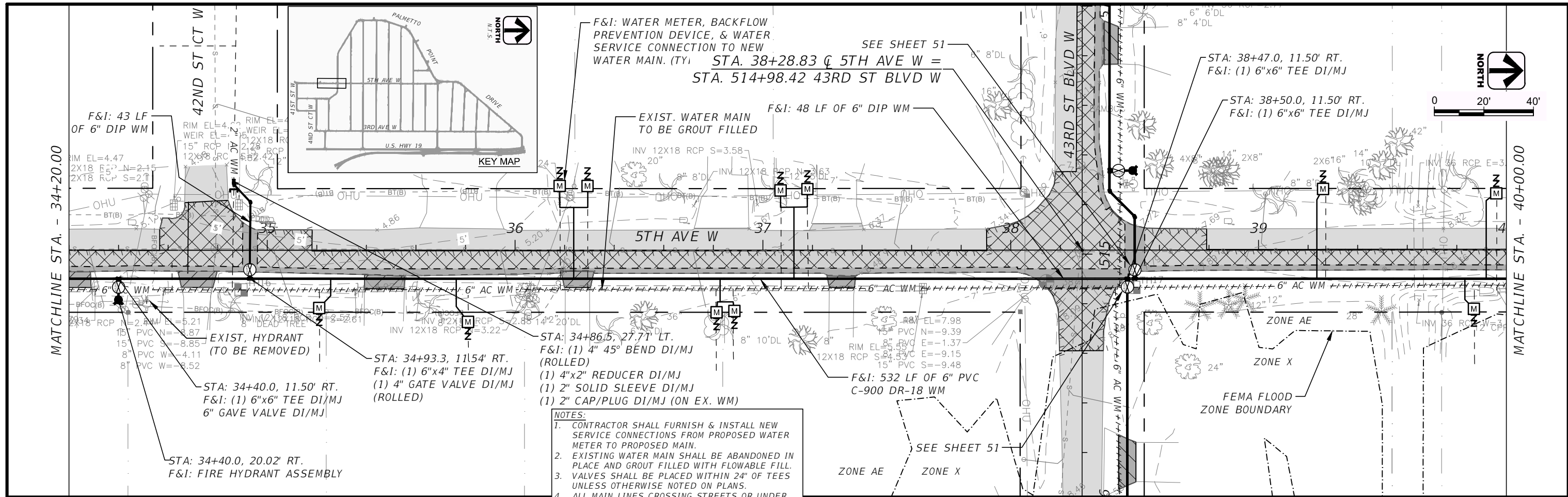
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



PLAN & PROFILE - 5TH AVE. W.

SHEET NO.
14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
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DES BY	CKM
DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

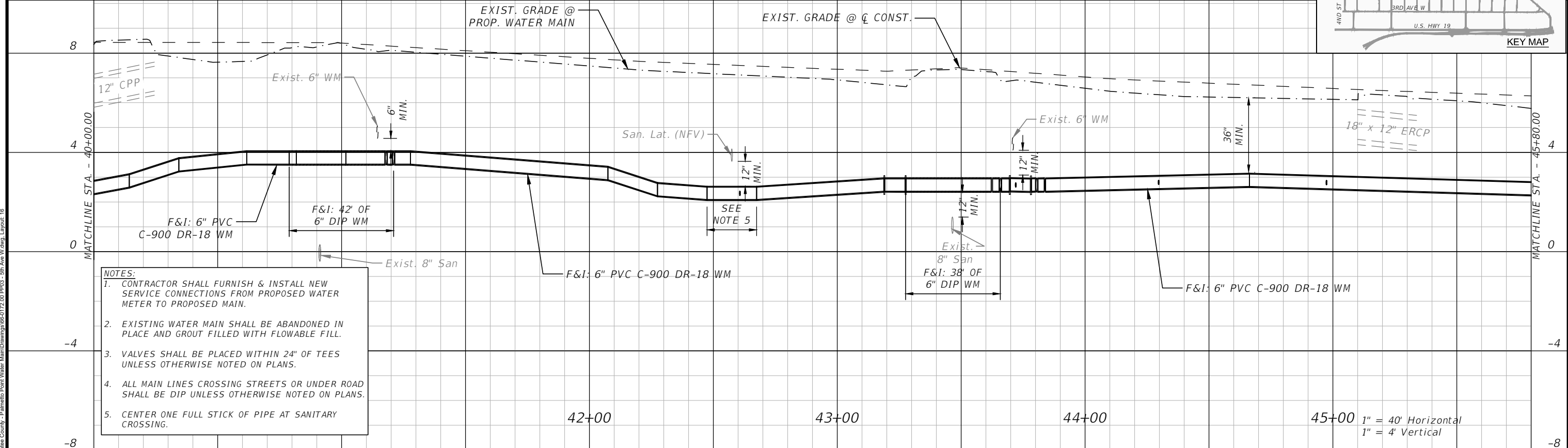
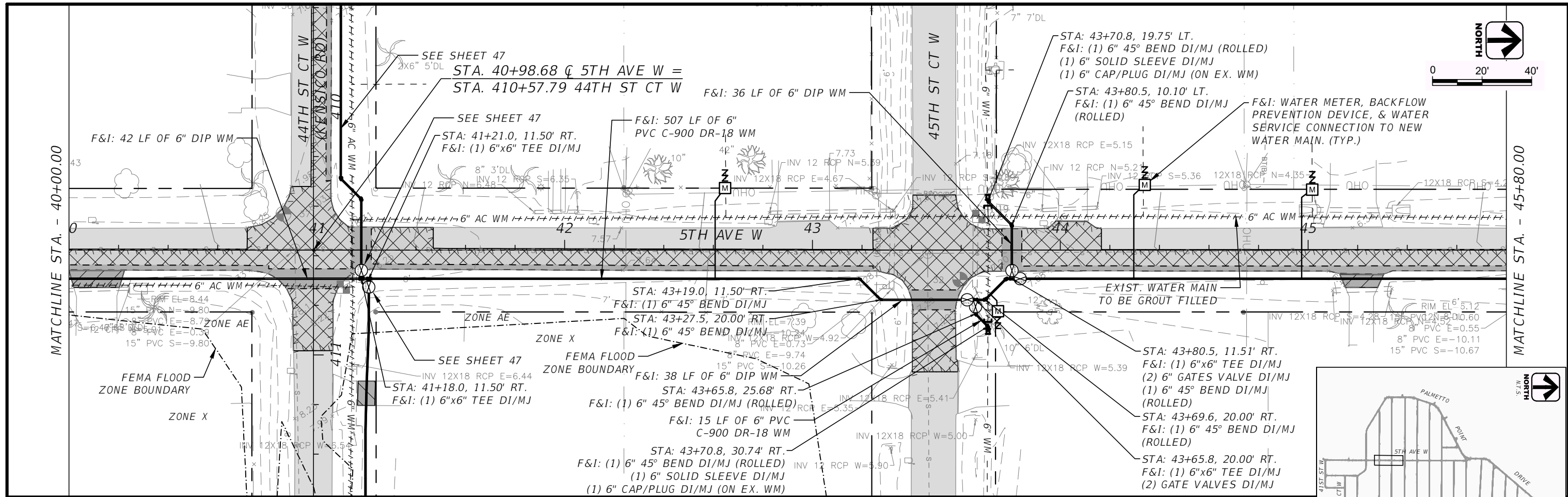


PLAN & PROFILE - 5TH AVE. W.

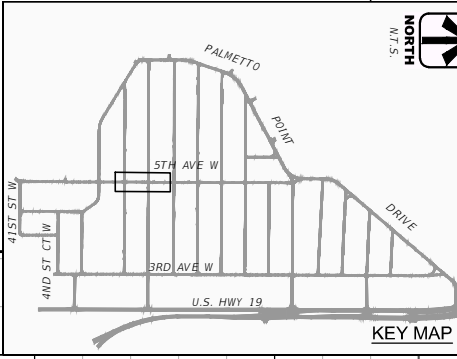
SHEET NO. **15**

A:\Standard.dwg
 10/6/2019 10:00 AM
 Manatee County - Palmetto Point Water Main Drawings\66-0172.00 FP03 - 5th Ave W.dwg, Layout: 15

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A:\Standard.dwg
 1/16/2017 10:00 AM - Manatee County - Palmetto Point Water Main Drawings\660172.00 FP03 - 5th Ave W.dwg, Layout: 16

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

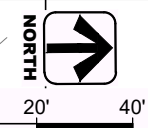
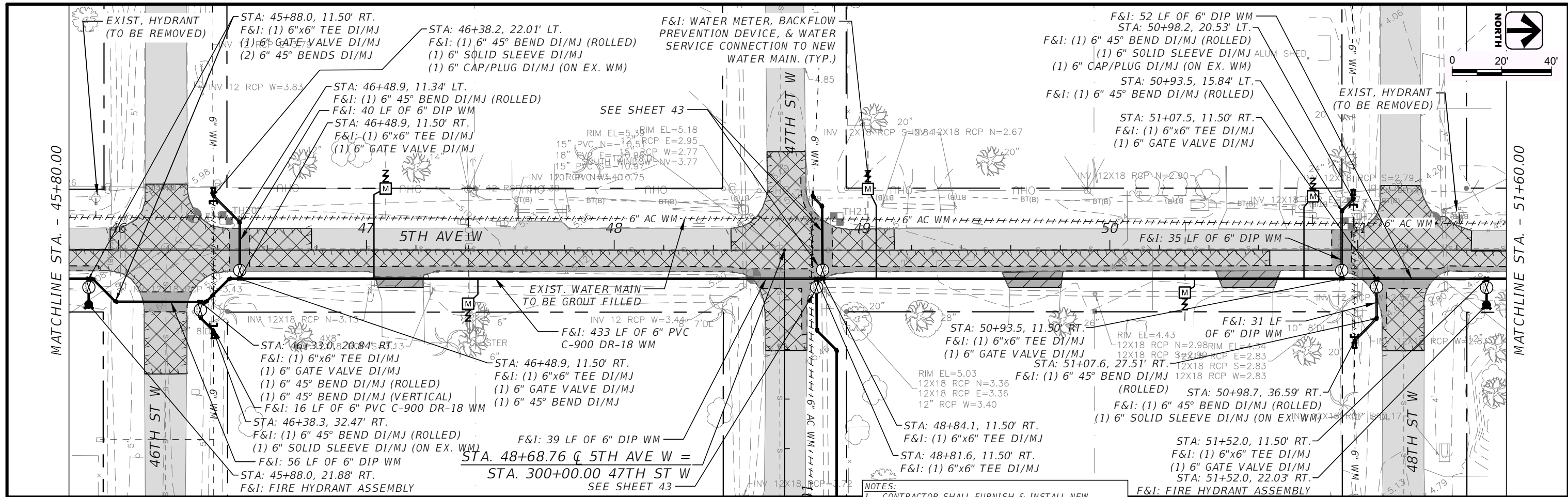
PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

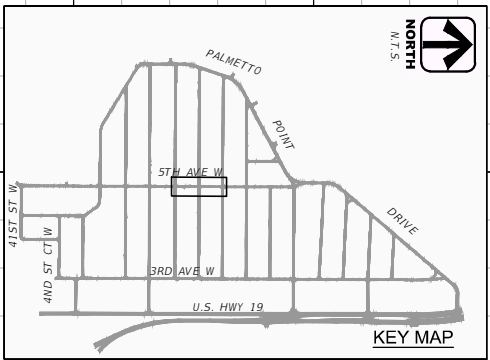
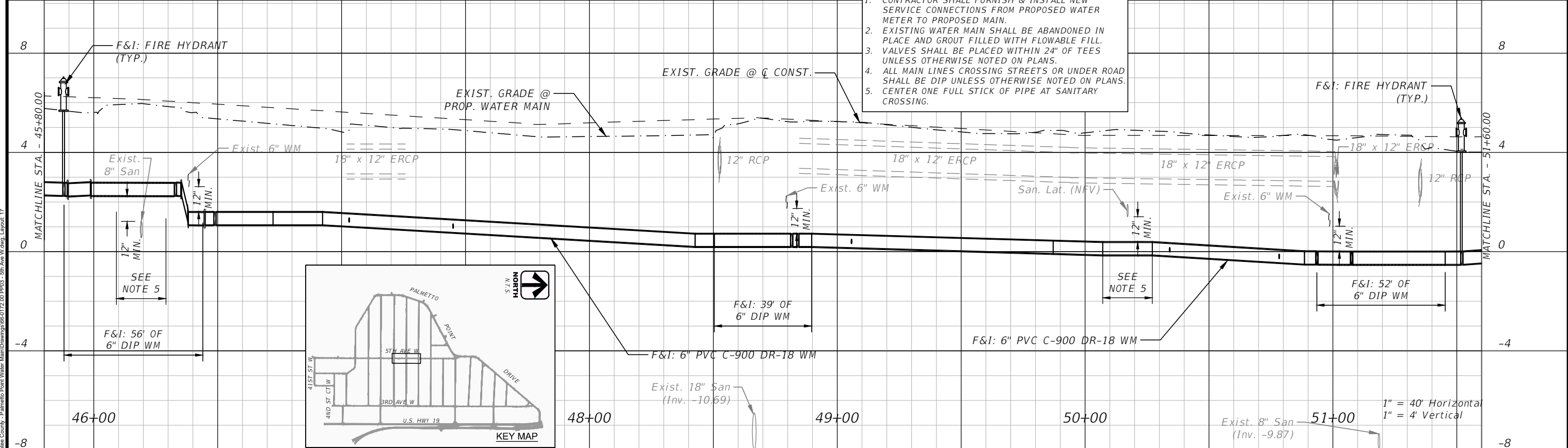


PLAN & PROFILE - 5TH AVE. W.
 SHEET NO. 16

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

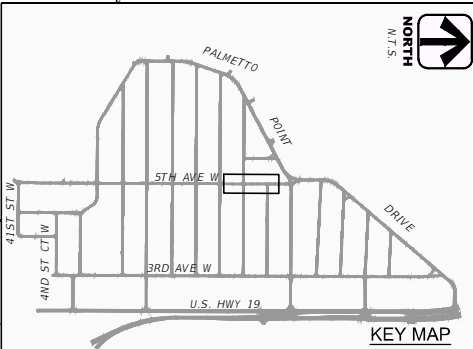
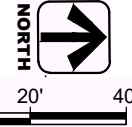
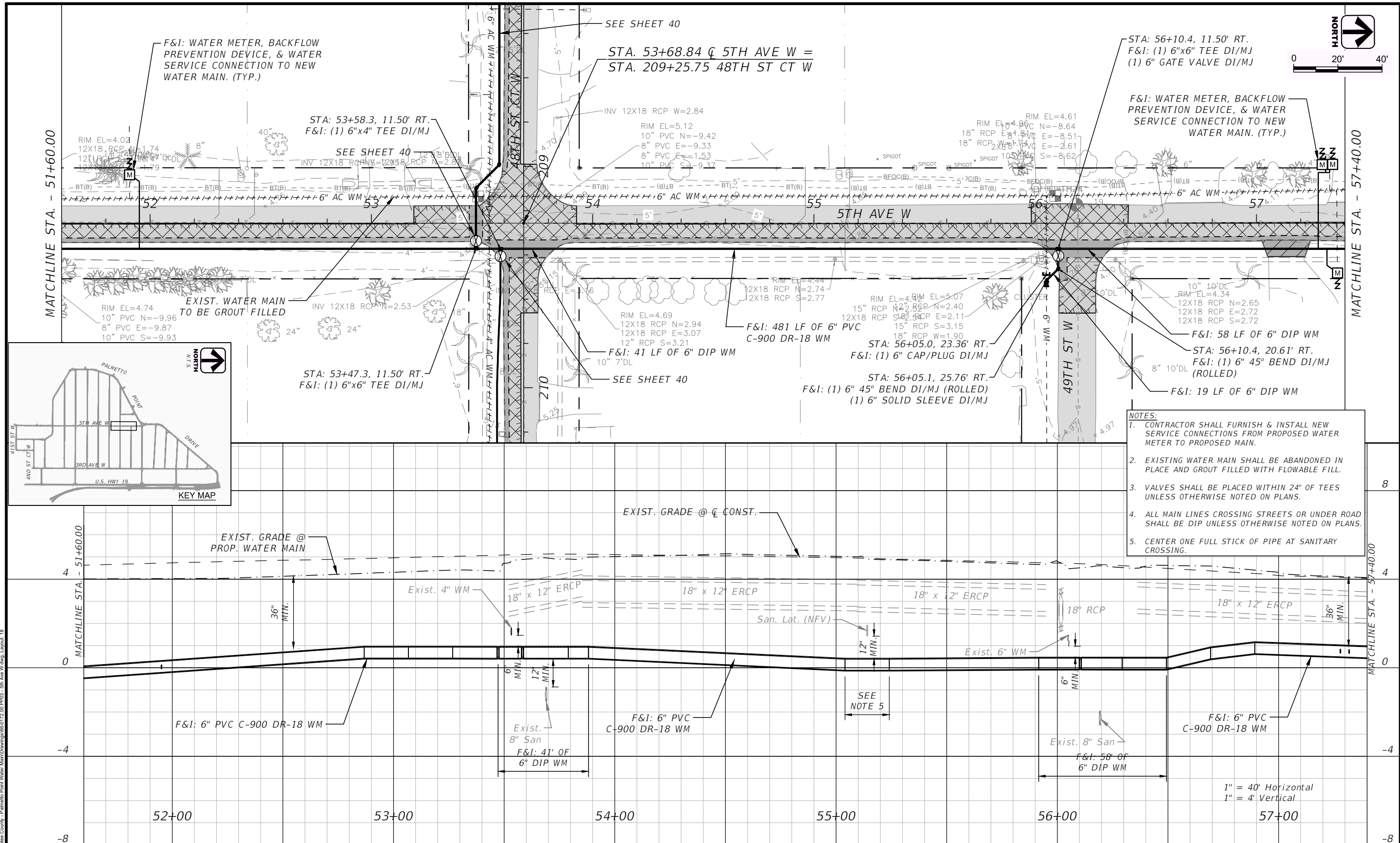
**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**



PLAN & PROFILE - 5TH AVE. W.

AA-Standard.sib
 1/26/2017 10:00 AM - Manatee County - Palmetto Point Water Main Drawings 66-0172.00 FP03 - 5th Ave W.dwg, Layout: 17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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DES BY	CKM
DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**



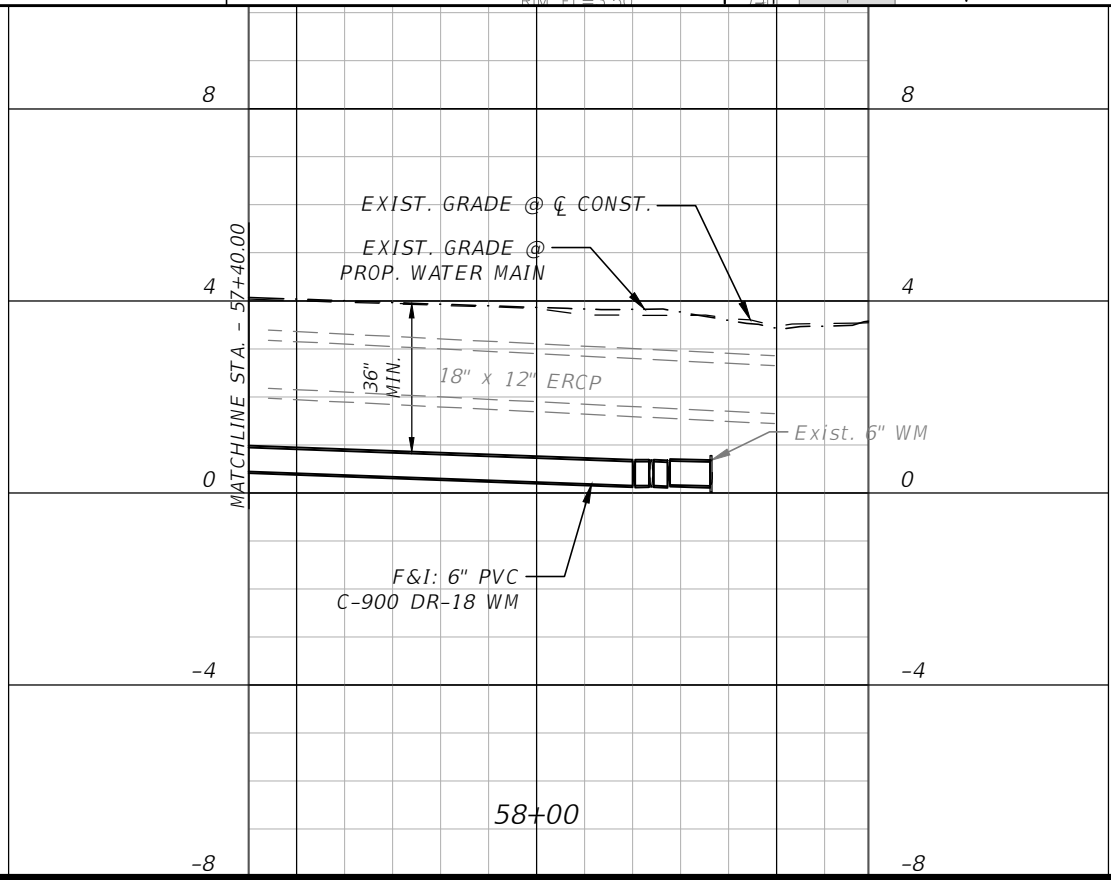
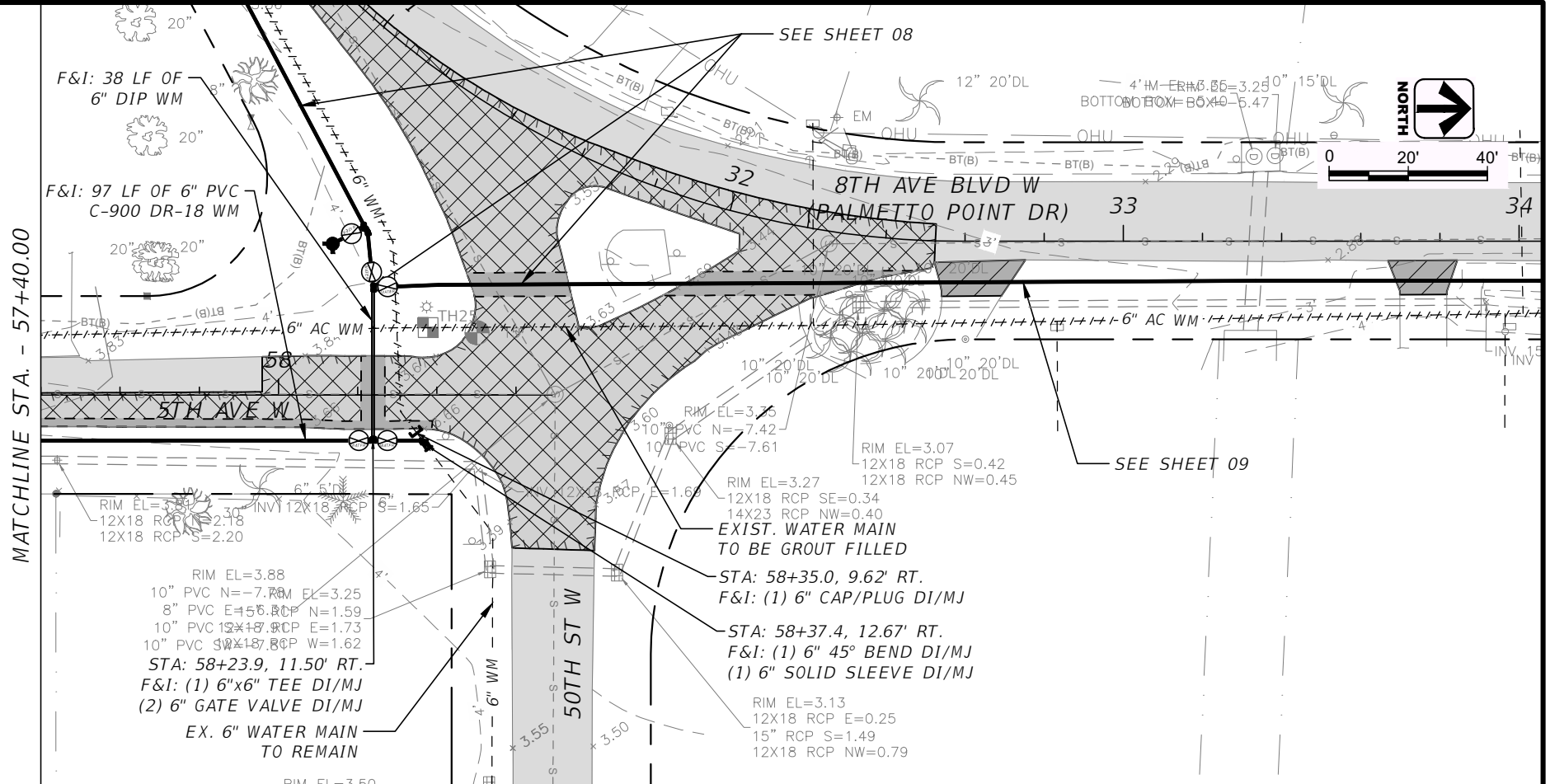
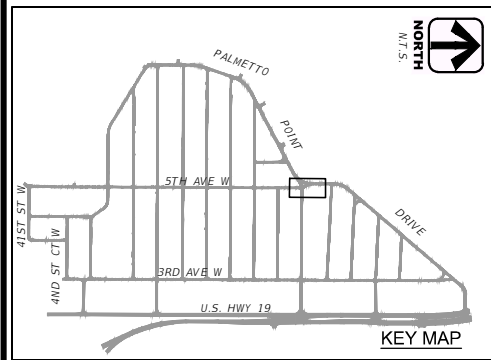
PLAN & PROFILE - 5TH AVE. W.

SHEET NO.
18

AA-Standard.snb
 J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 FP03 - 5th Ave W.dwg, Layout: 18

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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1" = 4' Vertical

AA-Standard.dwg
66-0172.00 - Manatee County - Palmetto Point Water Main Drawings 66-0172.00 FP03 - 5th Ave W.dwg, Layout: 19
10/6/2019 10:00 AM

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

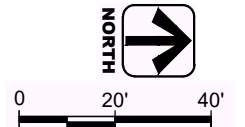
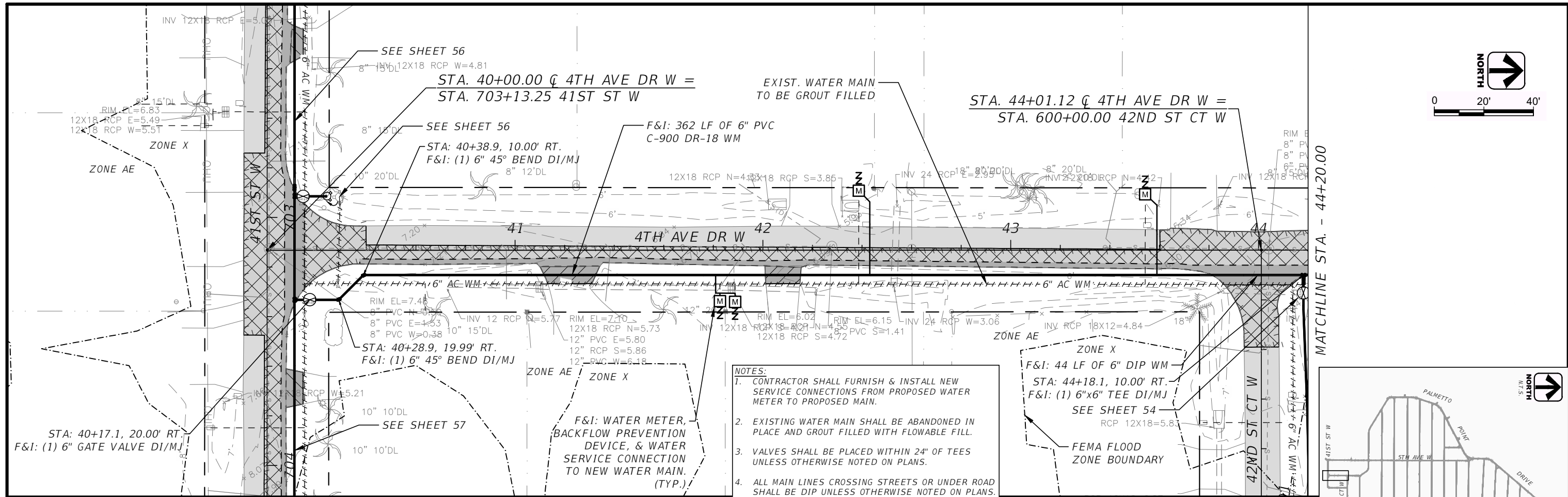
**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



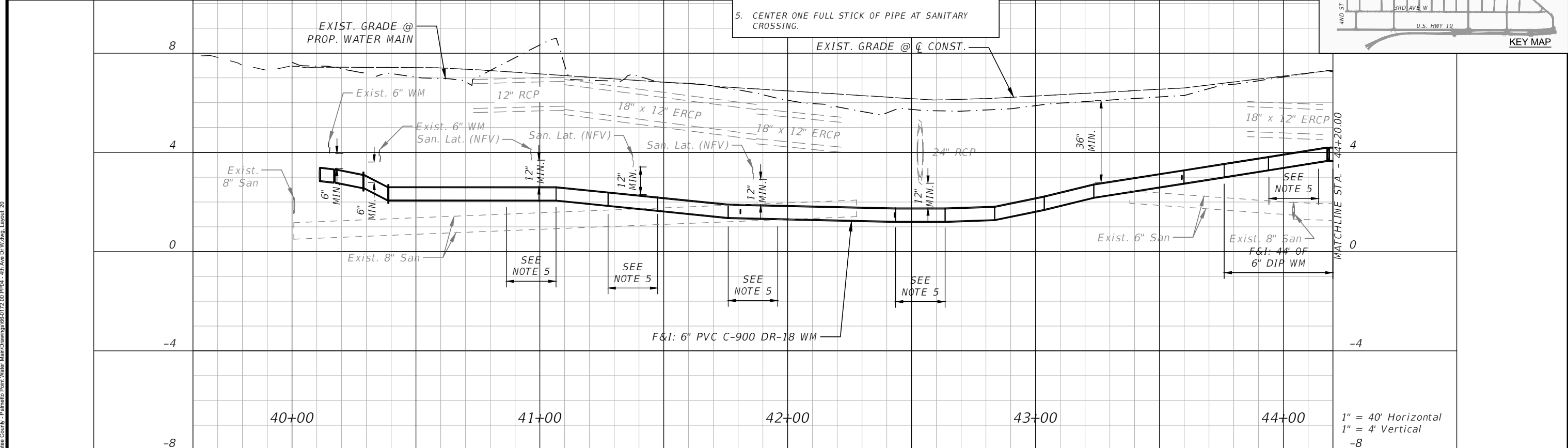
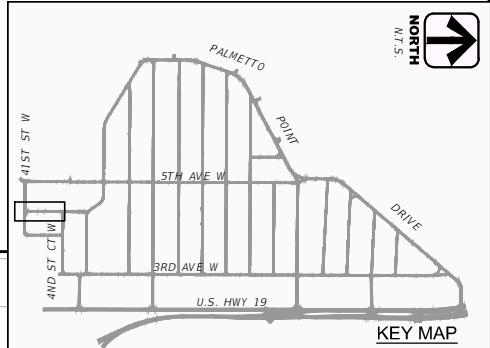
PLAN & PROFILE - 5TH AVE. W.

SHEET NO. 19

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
 3. VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 4. ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



DES BY	CKM
DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

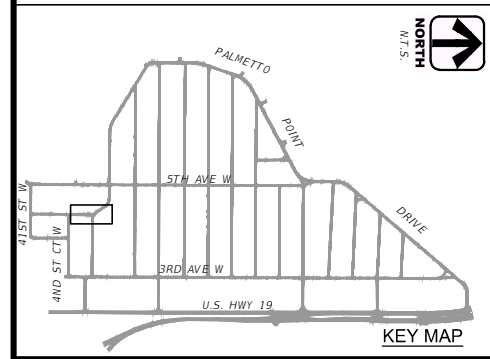
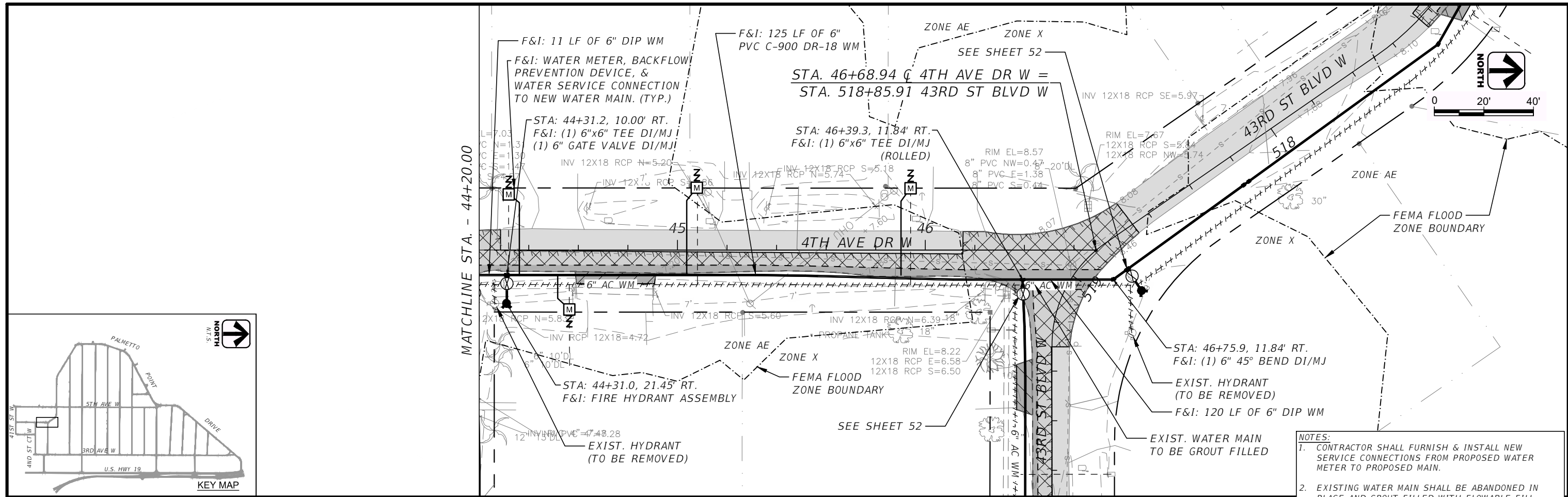


PLAN & PROFILE - 4TH AVE. DR. W.

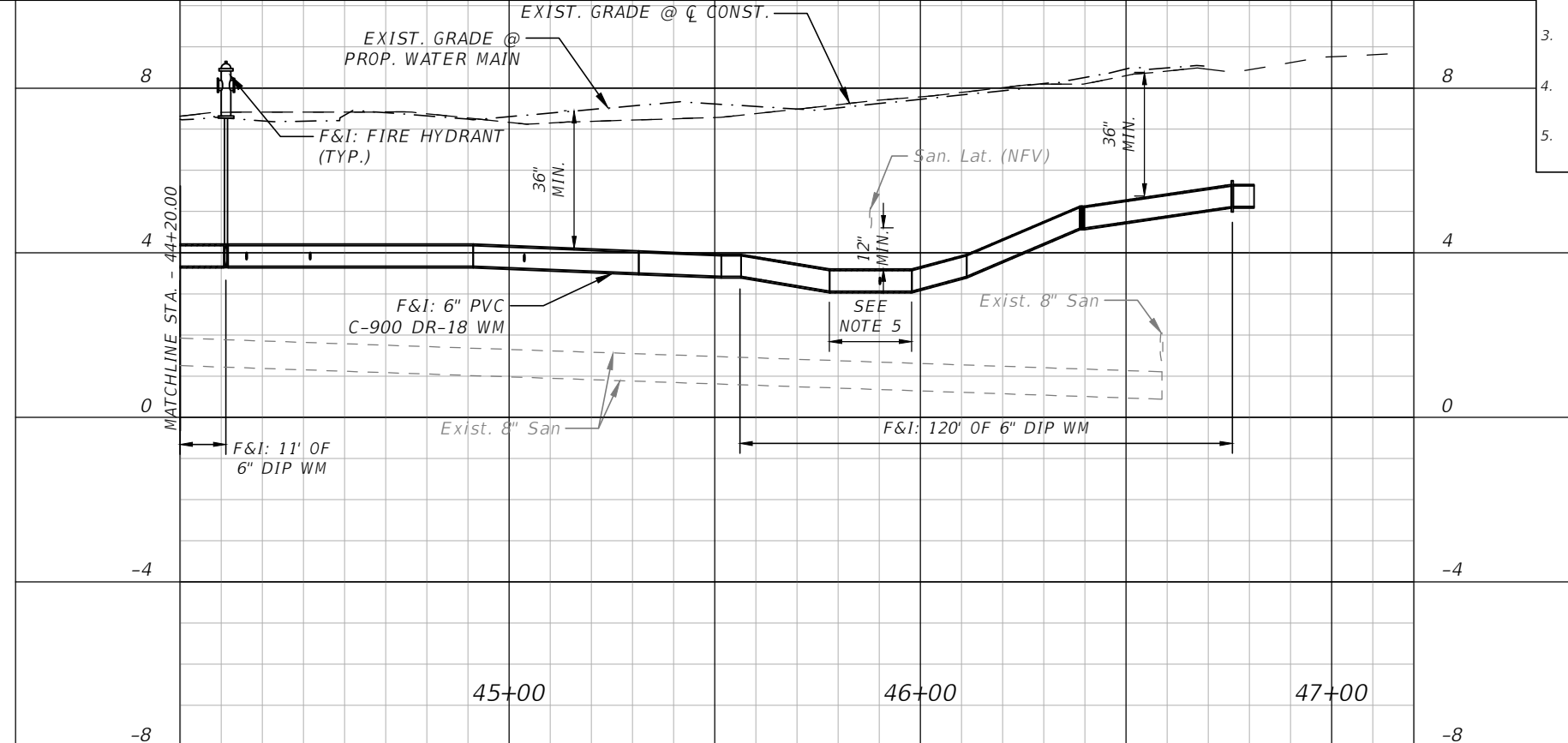
SHEET NO.
 20

AA-Standard.sib
 J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 FP04 - 4th Ave Dr W.dwg, Layout: 20

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1" = 40' Horizontal
1" = 4' Vertical

A:\Standard.dwg
 10/6/07 12:00 - Manatee County - Palmetto Point Water Main Drawings\66-0172-00 FP04 - 4th Ave Dr W.dwg, Layout: 21

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
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 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

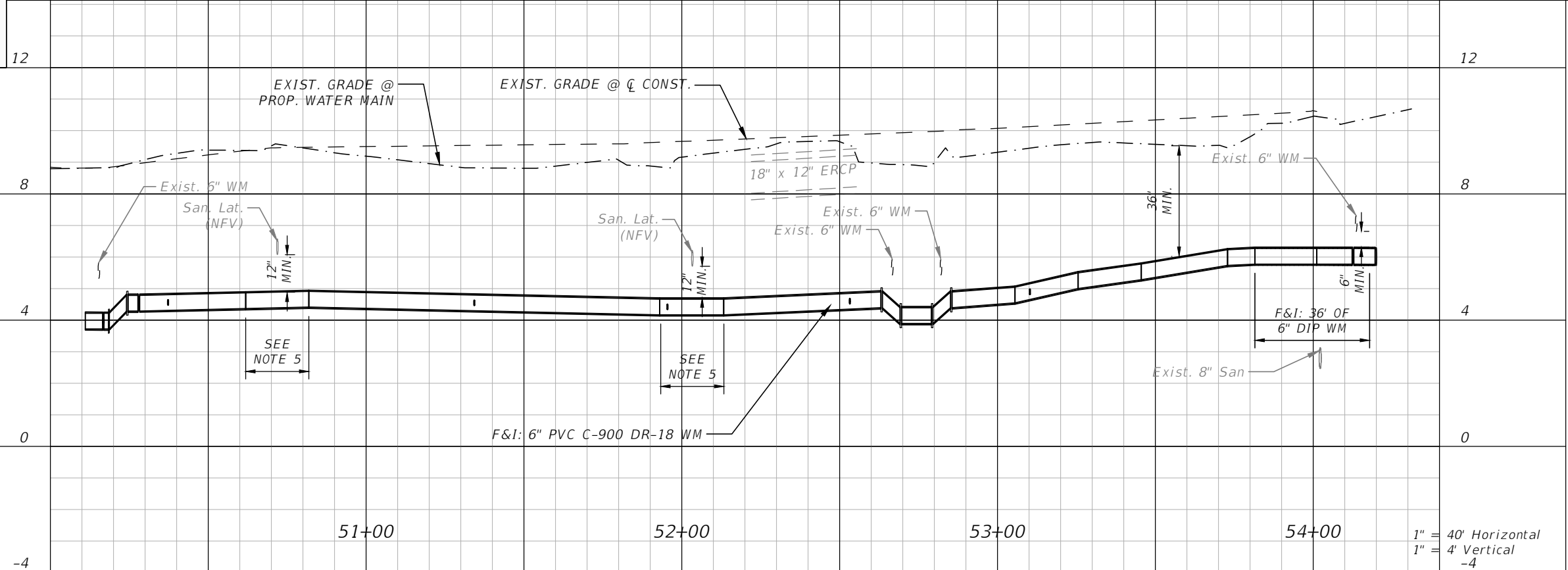
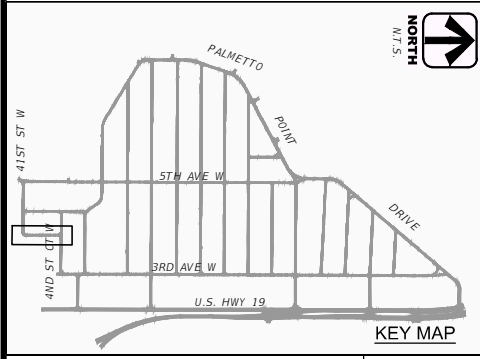
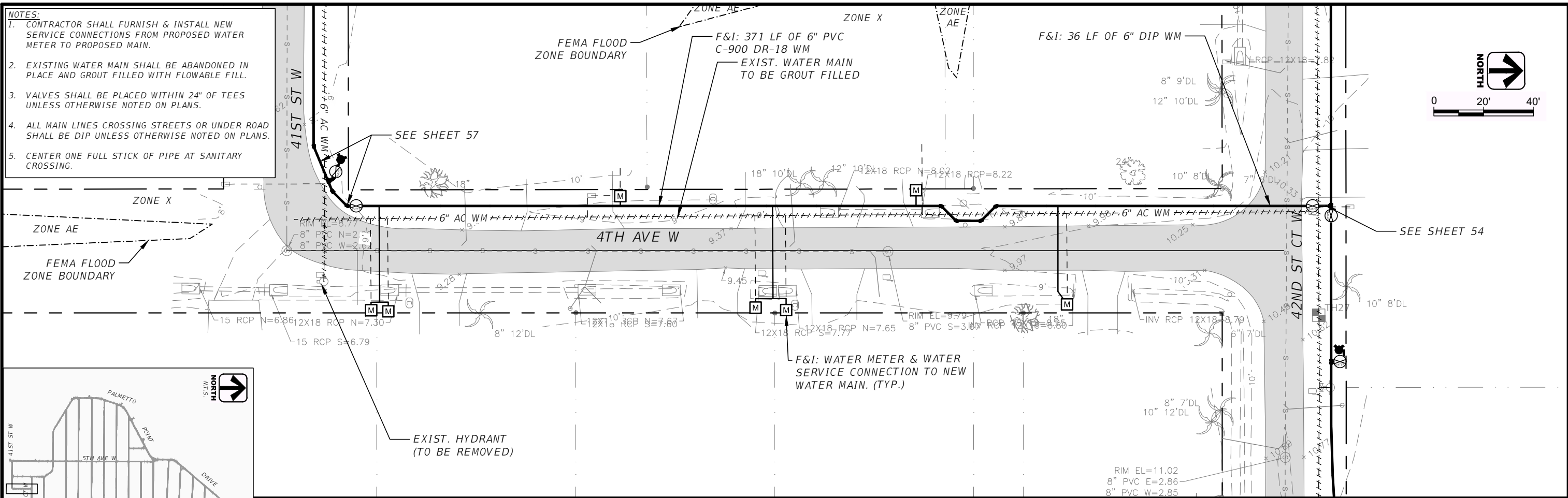
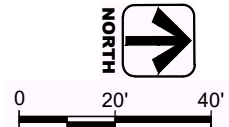


PLAN & PROFILE - 4TH AVE. DR. W.

SHEET NO.
21

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DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**

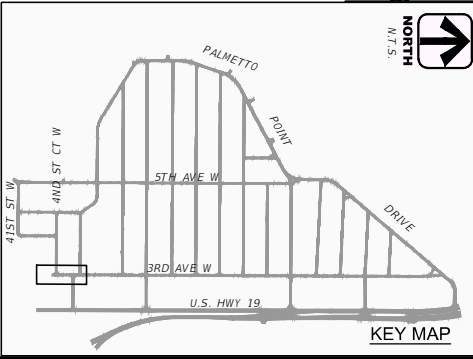
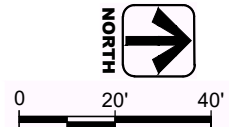
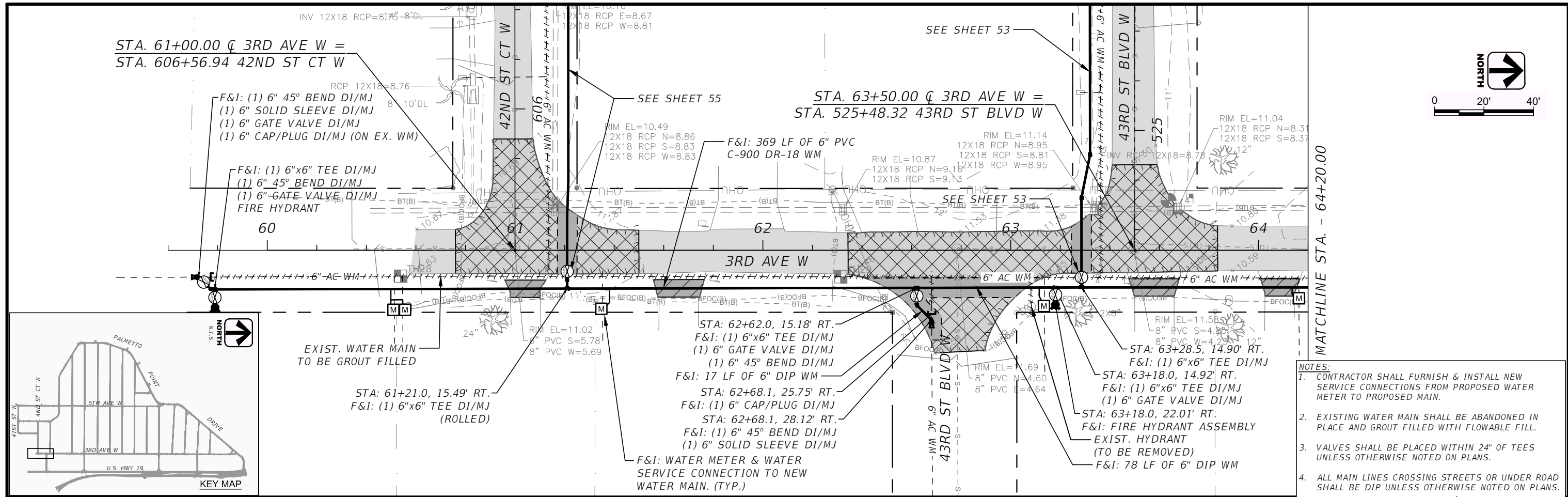


PLAN & PROFILE - 4TH AVE. W.

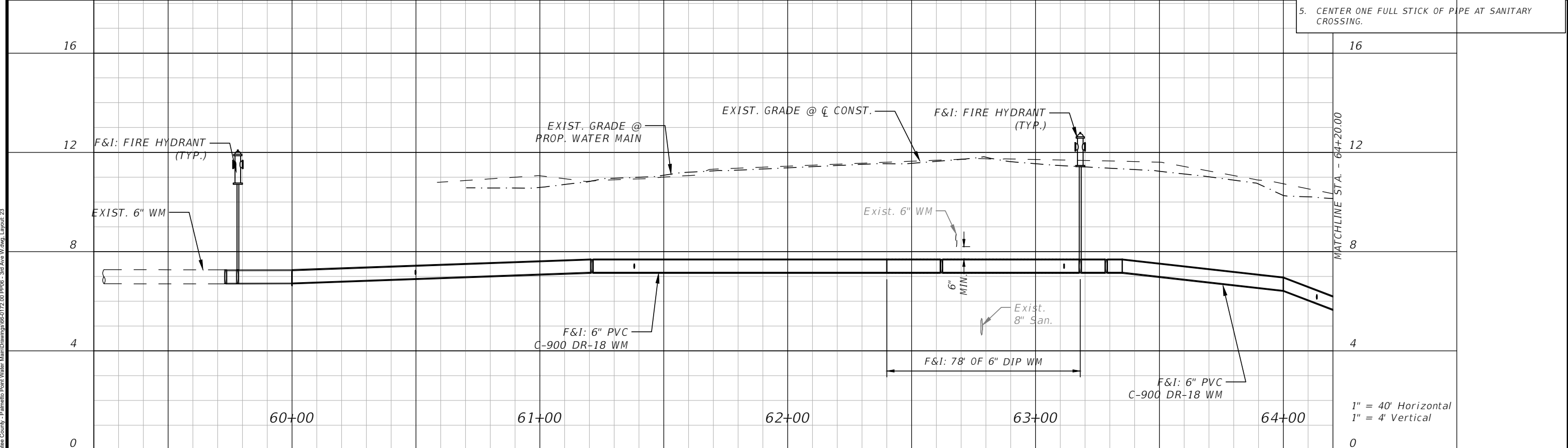
SHEET NO.	22
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1" = 40' Horizontal
1" = 4' Vertical

AA-Standard.sib
 J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 FP06 - 3rd Ave. W.dwg, Layout: 23

DES BY	CKM
DR BY	AD
CHK BY	CKM
PROJ NO	66-0172.00
DATE	NOV 2019

NO	DATE	REVISION

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
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 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

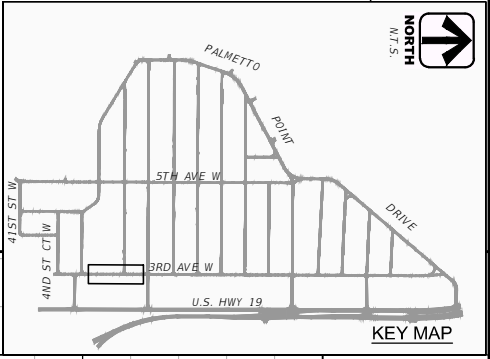
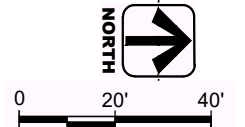
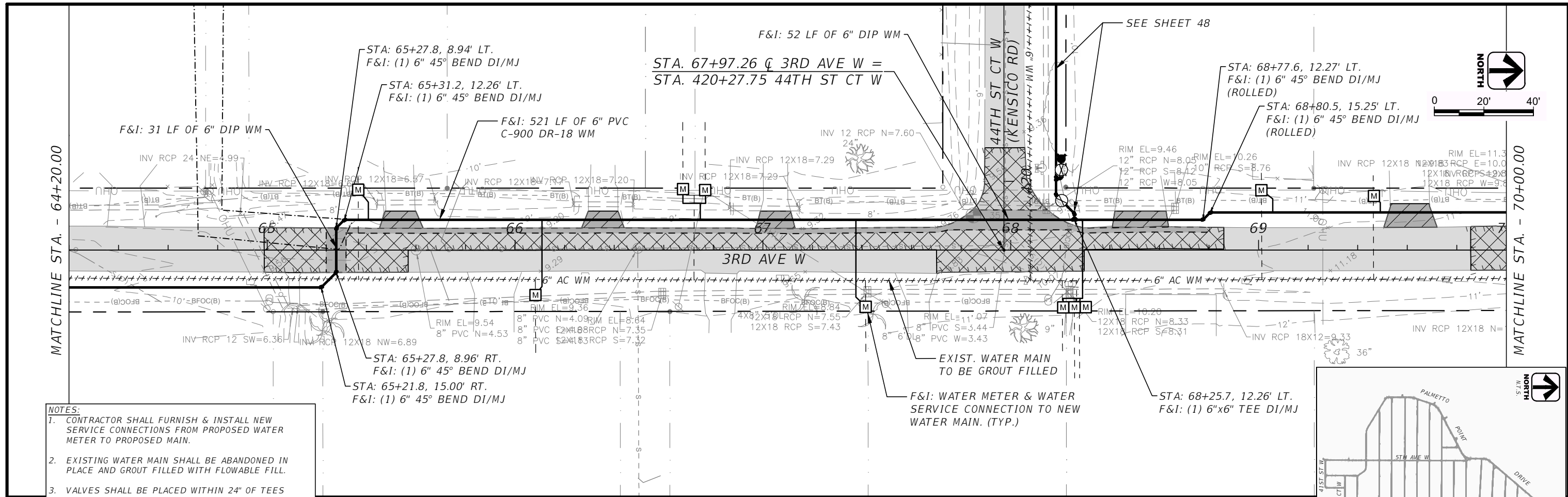
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



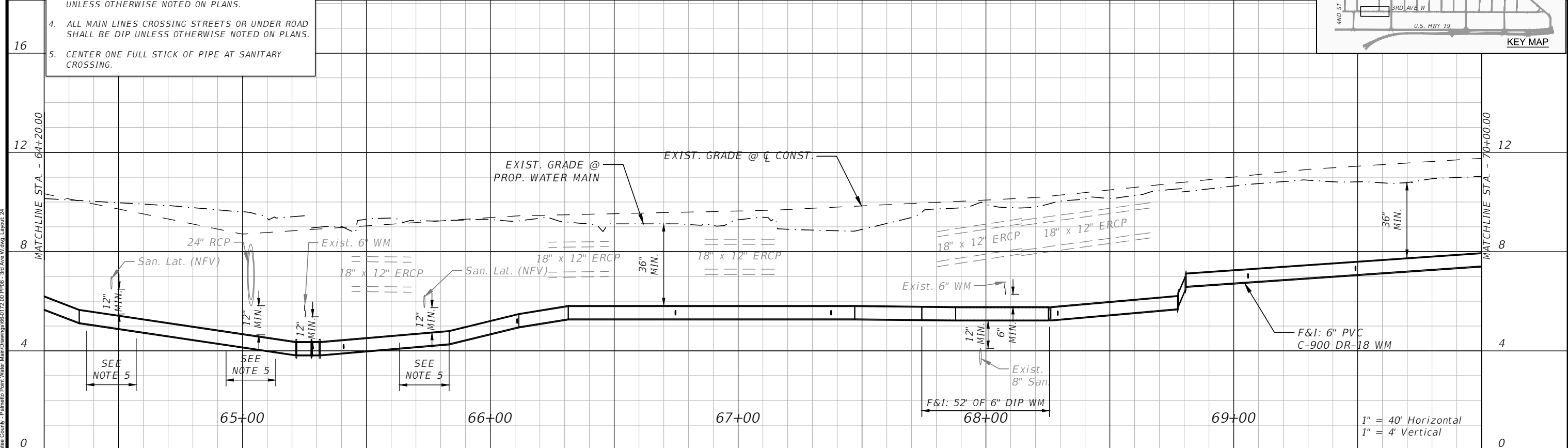
PLAN & PROFILE - 3RD AVE. W.

SHEET NO.
23

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DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

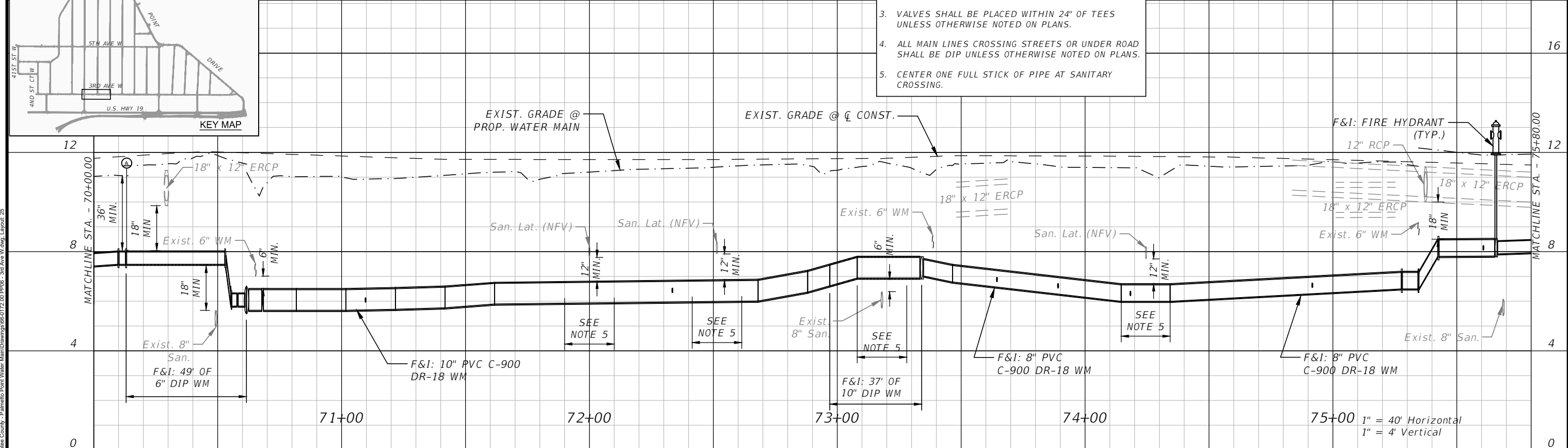
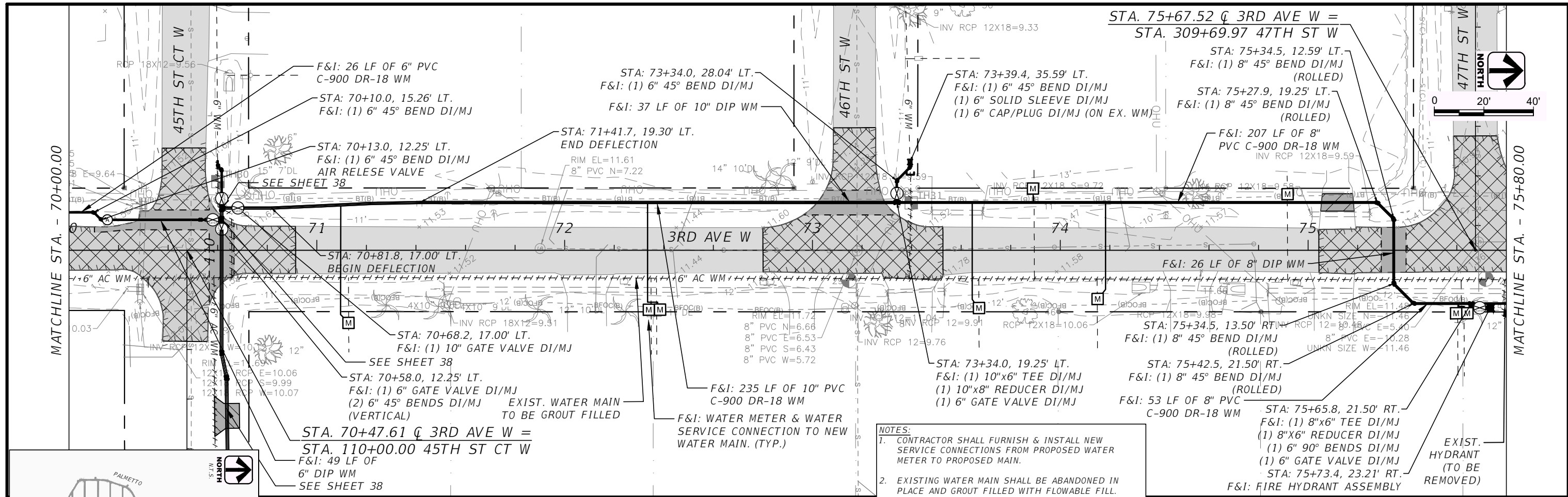
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



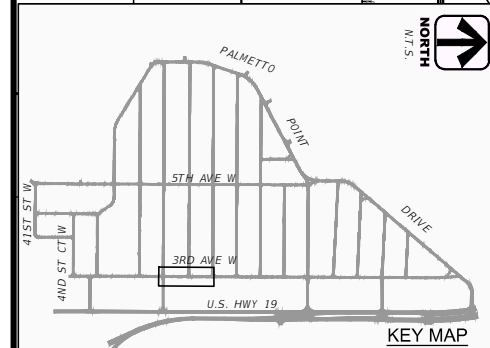
PLAN & PROFILE - 3RD AVE. W.

SHEET NO.
24

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DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

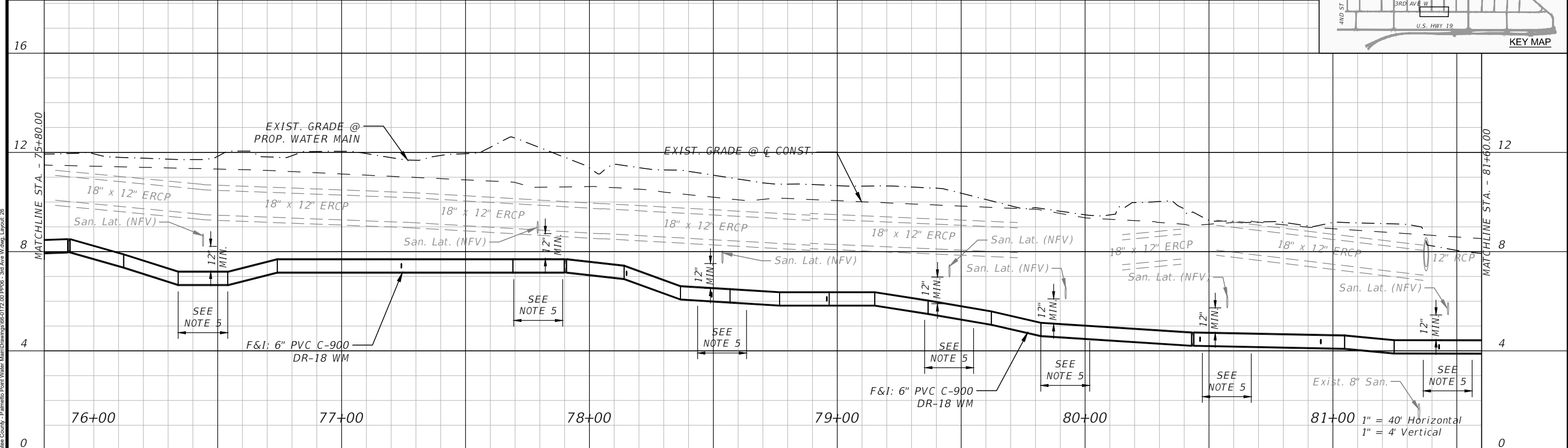
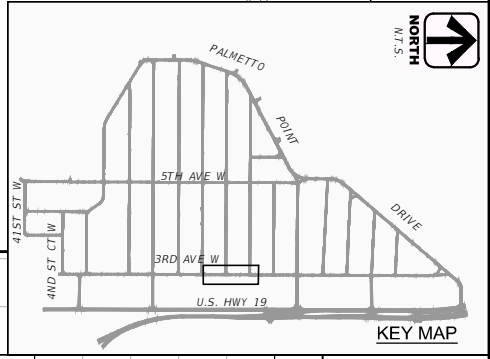
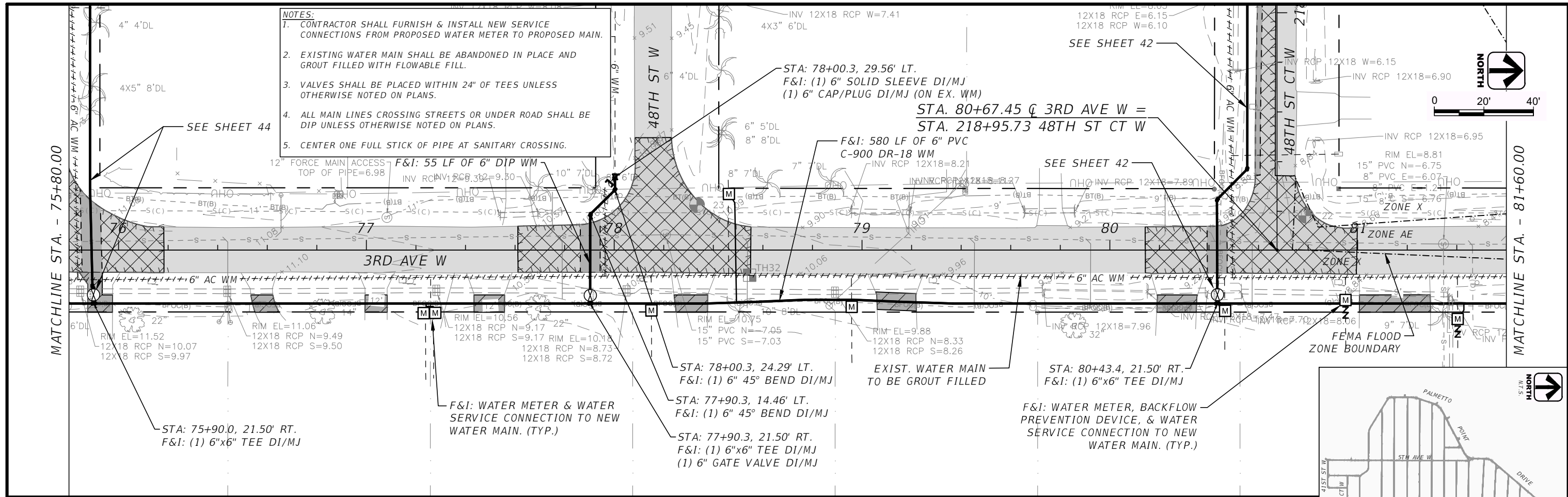
PROFESSIONAL OF RECORD:
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 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**



PLAN & PROFILE - 3RD AVE. W.

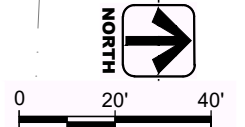
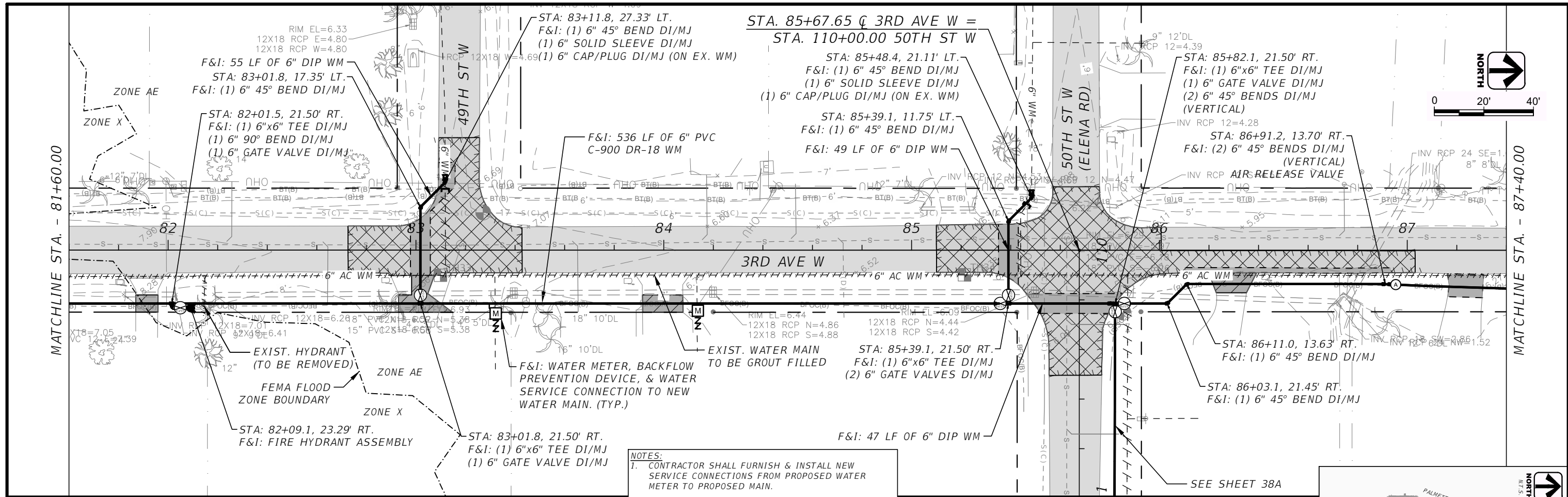
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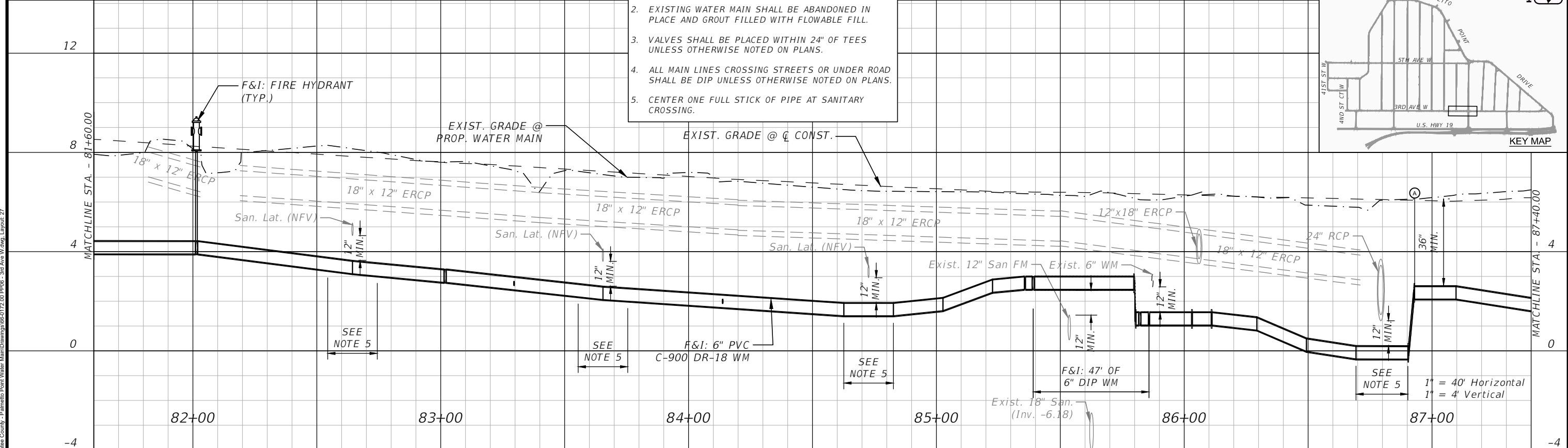
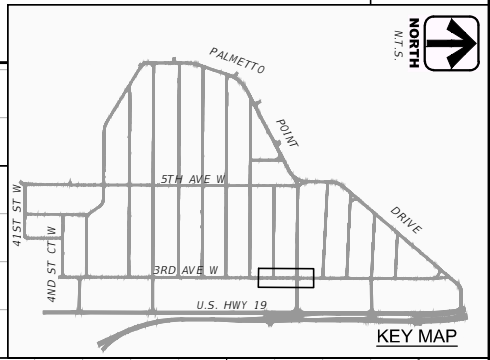
DES BY CKM	PROJ NO 66-0172.00	PROFESSIONAL OF RECORD: CHRISTOPHER K. MARTIN, P.E. #66598 AYRES ASSOCIATES 8875 HIDDEN RIVER PKWY, SUITE 200 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356	PALMETTO POINT WATER MAIN REPLACEMENT PALMETTO, FLORIDA MANATEE COUNTY PUBLIC WORKS		PLAN & PROFILE - 3RD AVE. W.	SHEET NO. 26	
DR BY AD	DATE NOV 2019	NO DATE					REVISION
CHK BY CKM							

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 J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 FP06 - 3rd Ave. W.dwg, Layout: 26

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DES BY	CKM
DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
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 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

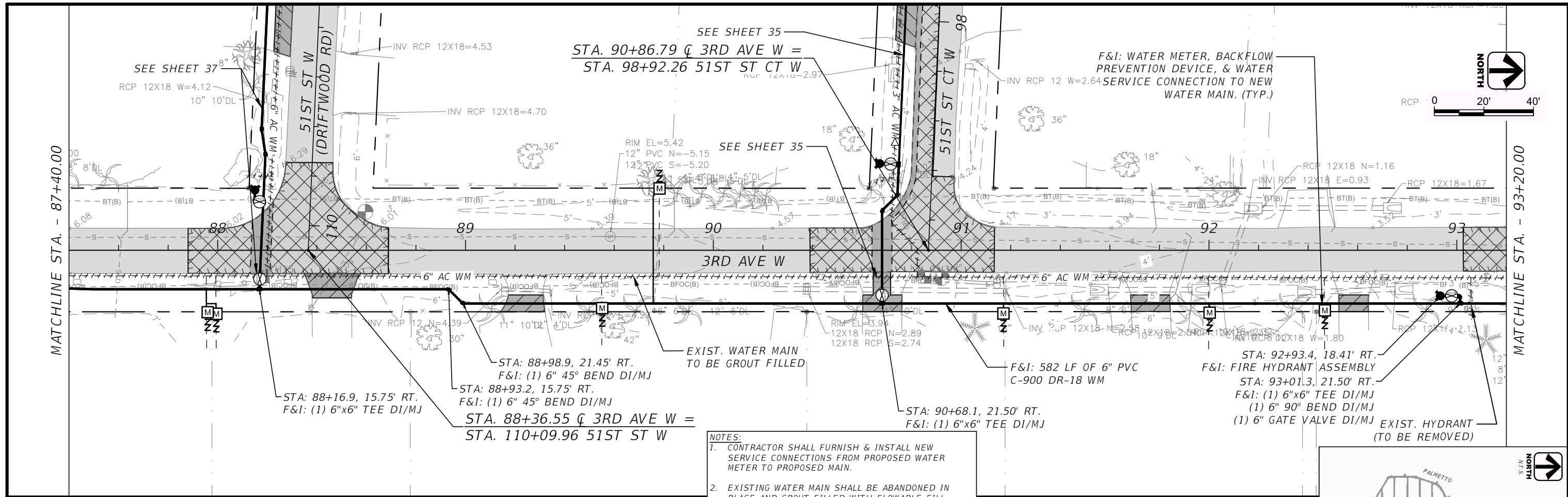


PLAN & PROFILE - 3RD AVE. W.

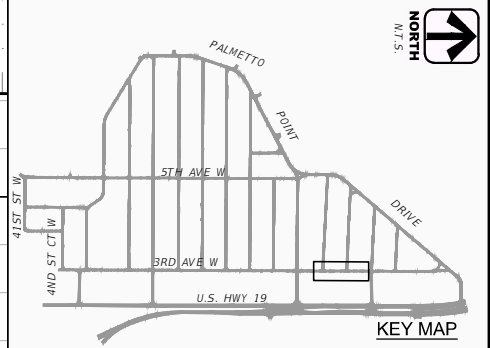
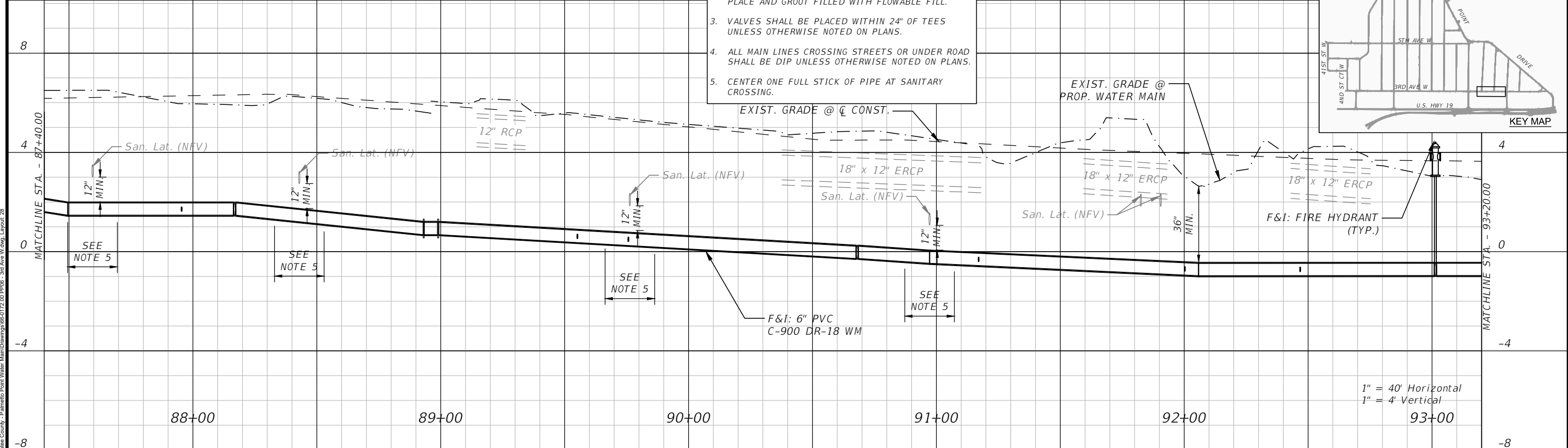
SHEET NO. **27**

AA-Standard.sib
 J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 FP06 - 3rd Ave. W.dwg, Layout: 27

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AA-Standard.sib
 DESIGNED BY: CKM
 DRAWN BY: AD
 CHECKED BY: CKM
 PROJECT NO: 66-0172.00
 DATE: NOV 2019
 NO. DATE REVISION
 PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
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DES BY	CKM		
DR BY	AD	PROJ NO	66-0172.00
CHK BY	CKM	DATE	NOV 2019
		NO	DATE
		REVISION	

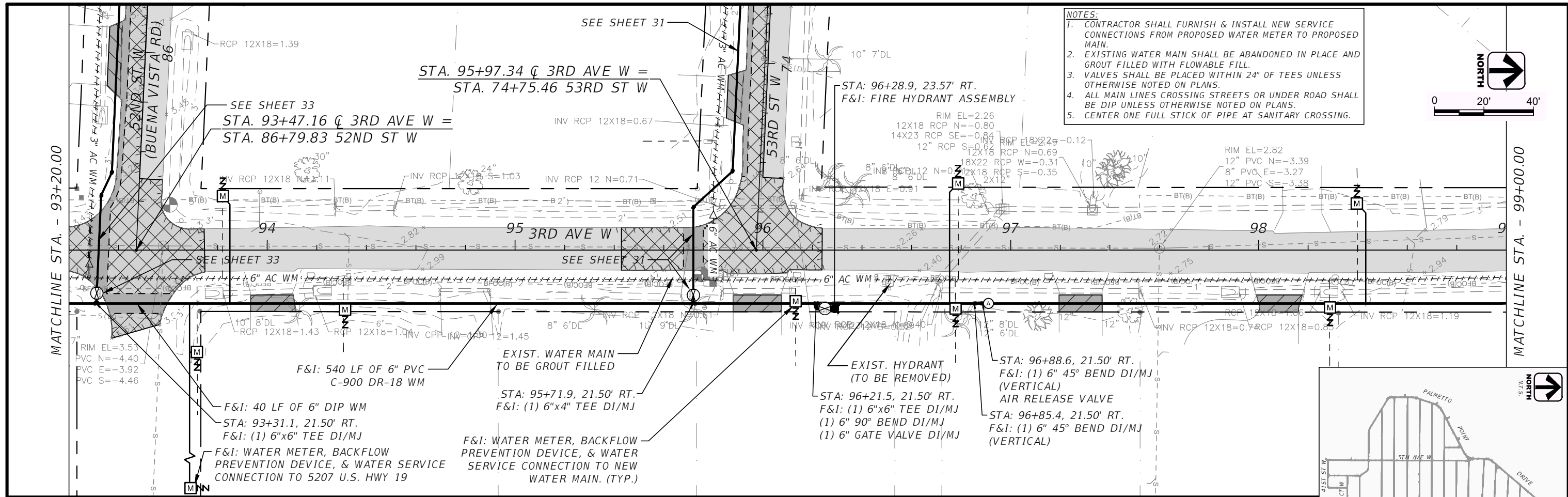
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

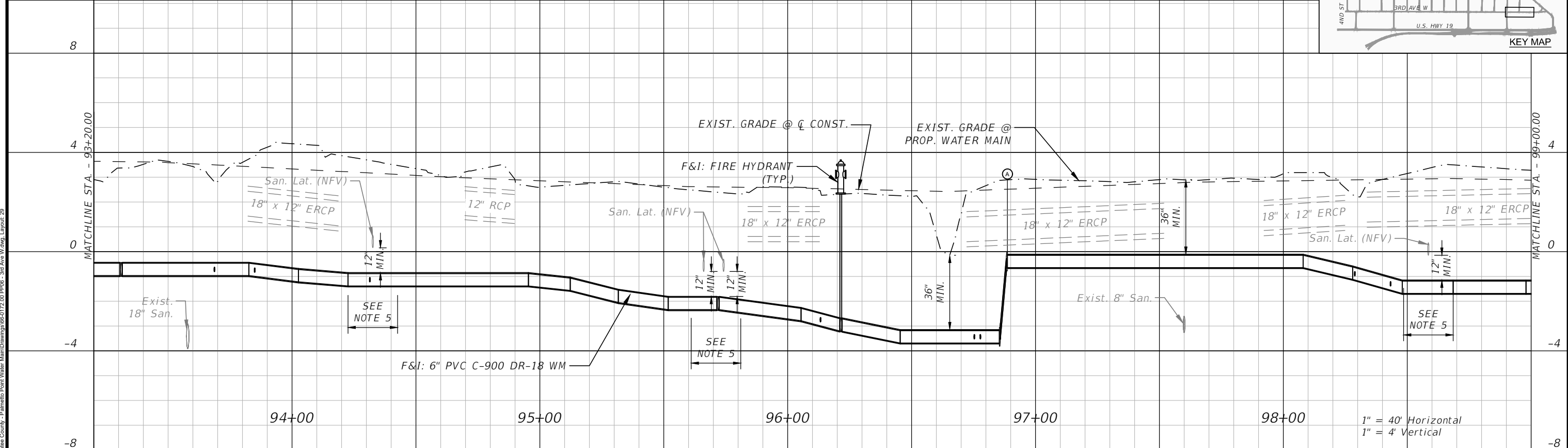
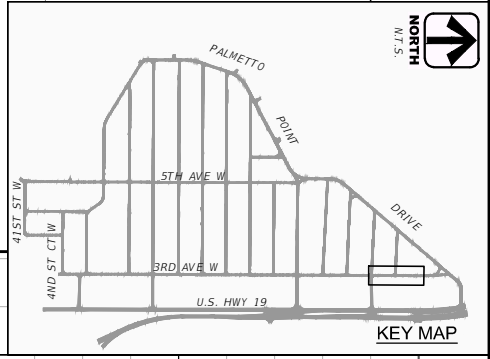


PLAN & PROFILE - 3RD AVE. W.

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J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 FP06 - 3rd Ave. W.dwg, Layout: 29

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

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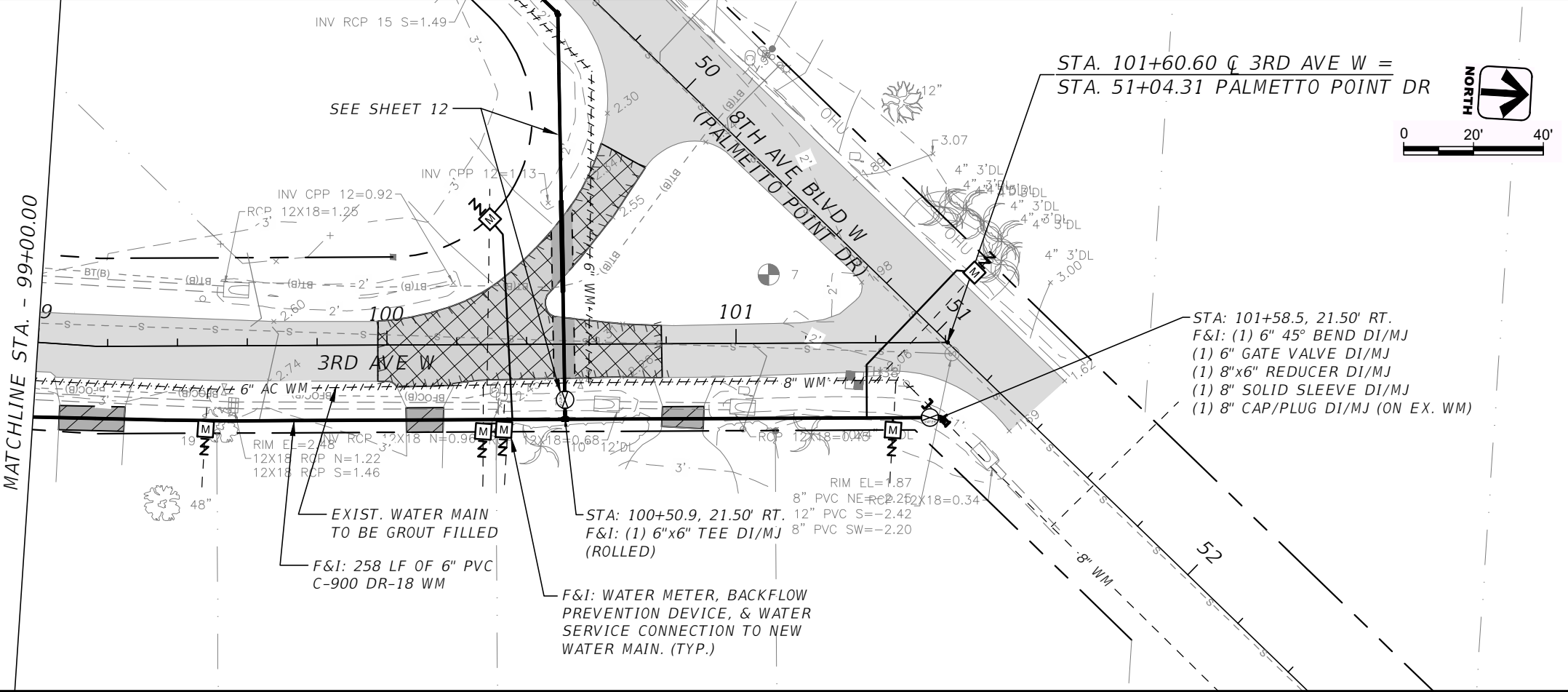
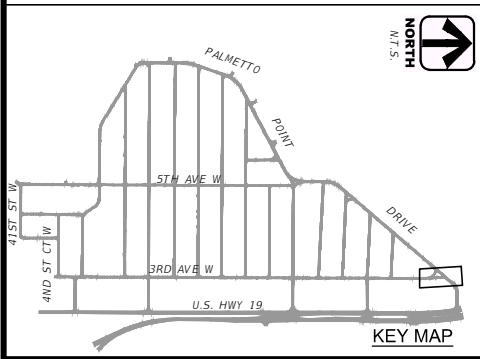
**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



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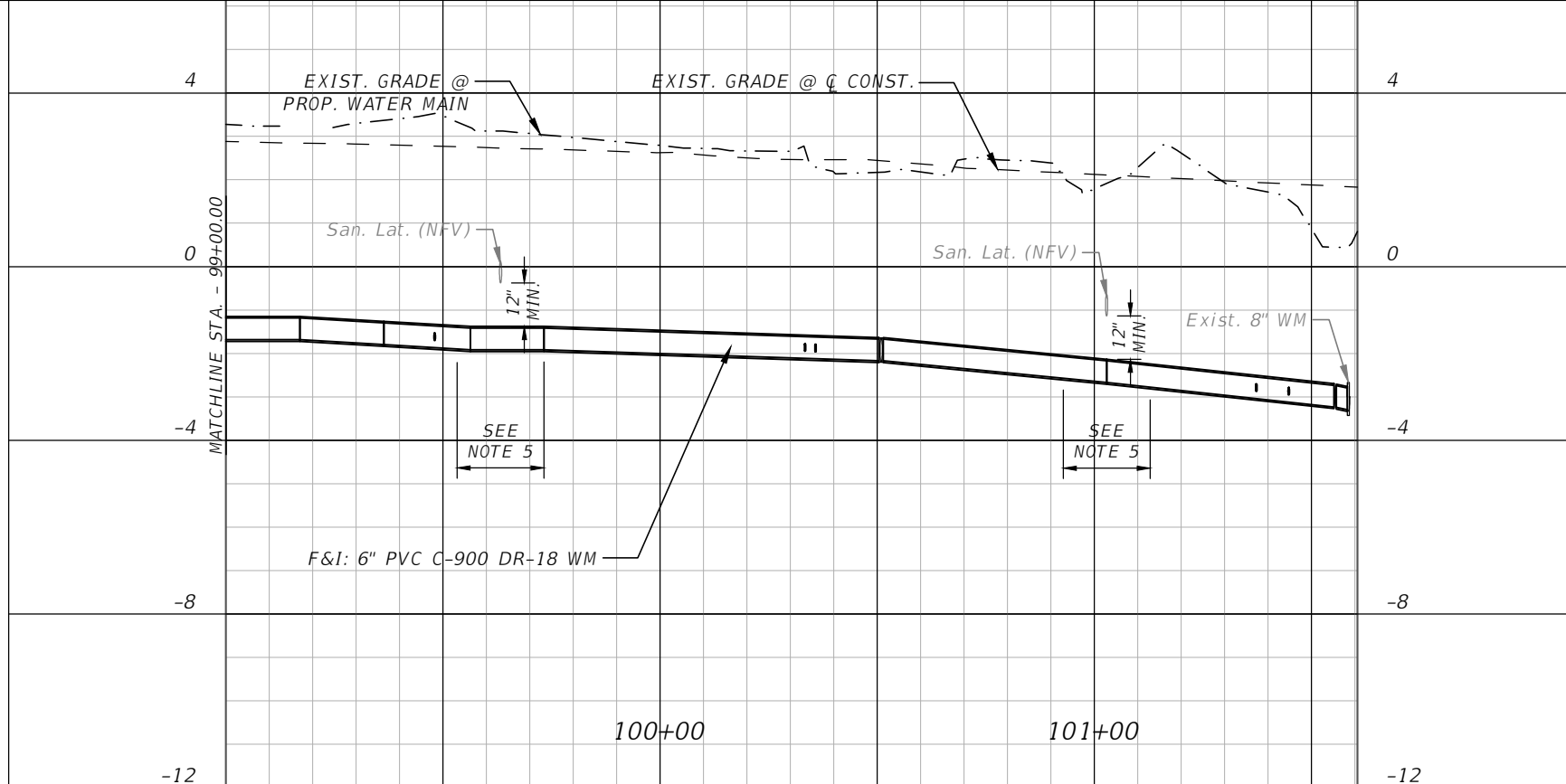


STA. 101+60.60 @ 3RD AVE W =
STA. 51+04.31 PALMETTO POINT DR

- STA: 101+58.5, 21.50' RT.
F&I: (1) 6" 45° BEND DI/MJ
(1) 6" GATE VALVE DI/MJ
(1) 8"x6" REDUCER DI/MJ
(1) 8" SOLID SLEEVE DI/MJ
(1) 8" CAP/PLUG DI/MJ (ON EX. WM)

EXIST. WATER MAIN
TO BE GROUT FILLED
F&I: 258 LF OF 6" PVC
C-900 DR-18 WM

STA: 100+50.9, 21.50' RT.
F&I: (1) 6"x6" TEE DI/MJ
(ROLLED)
F&I: WATER METER, BACKFLOW
PREVENTION DEVICE, & WATER
SERVICE CONNECTION TO NEW
WATER MAIN. (TYP.)



1" = 40' Horizontal
1" = 4' Vertical

AA-Standard.dwg
J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 FP06 - 3rd Ave. W.dwg, Layout: 30

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

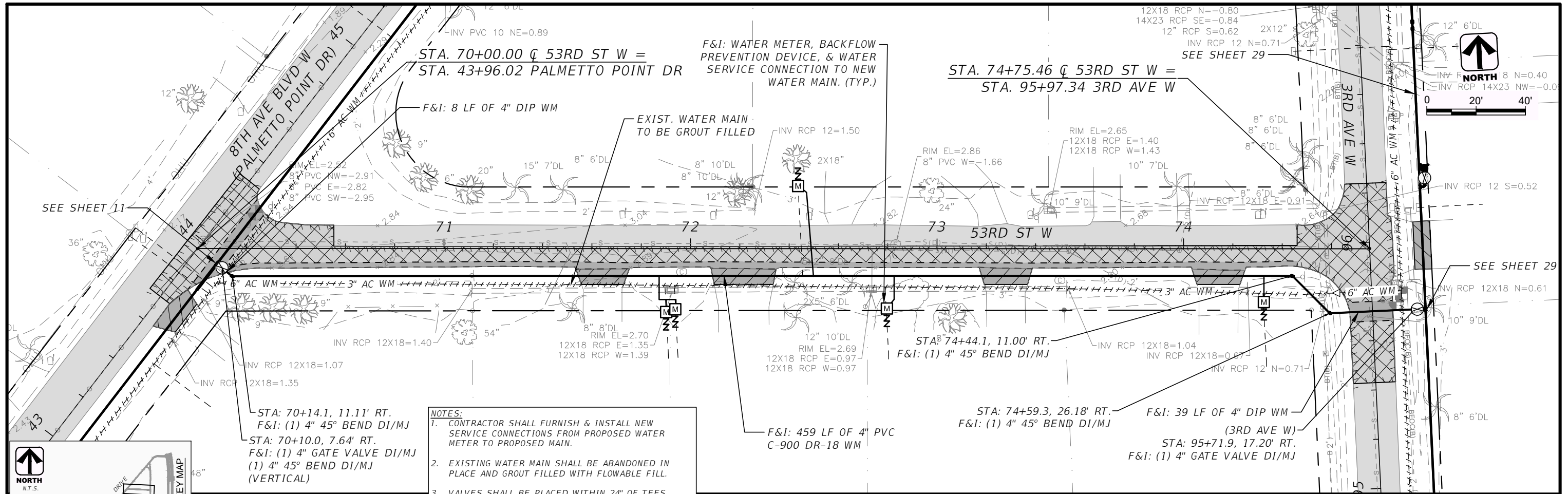
**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



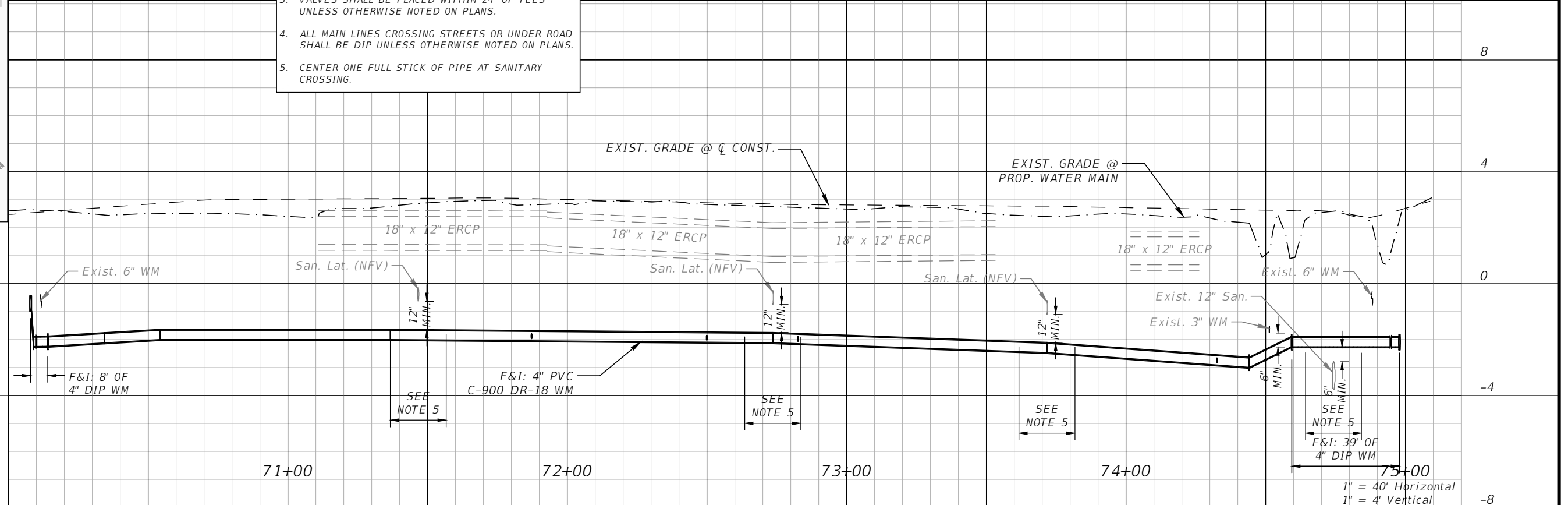
PLAN & PROFILE - 3RD AVE. W.

SHEET NO.
30

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
 - VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**



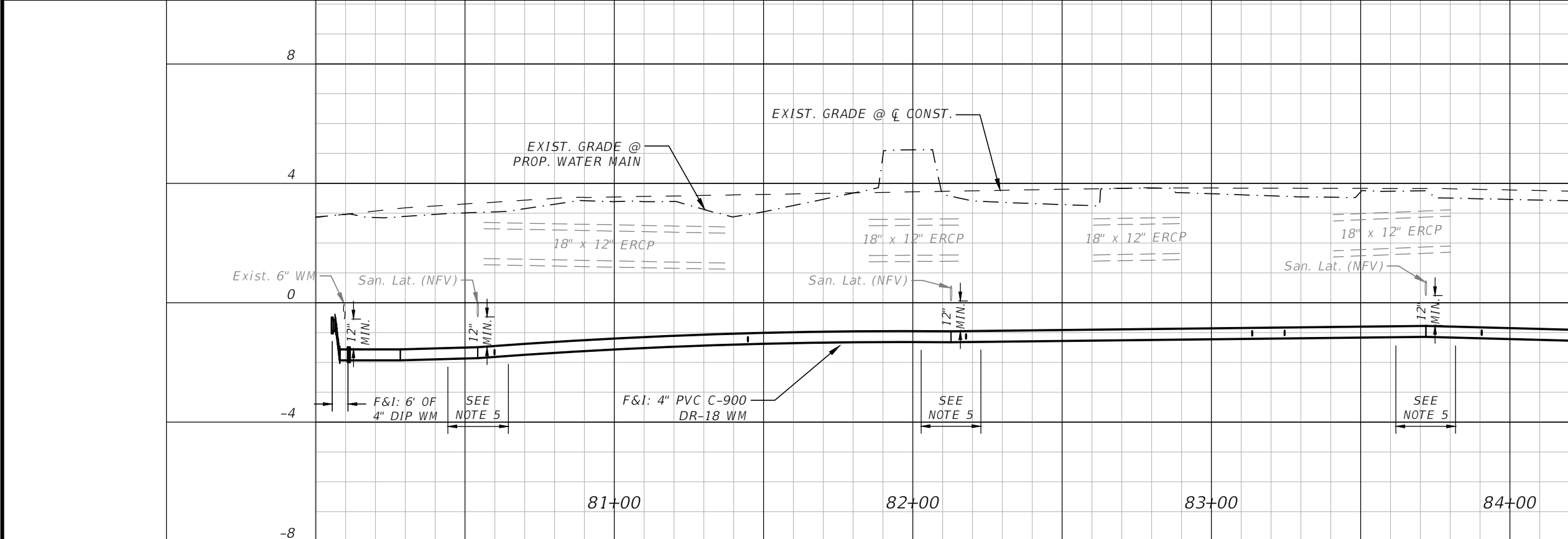
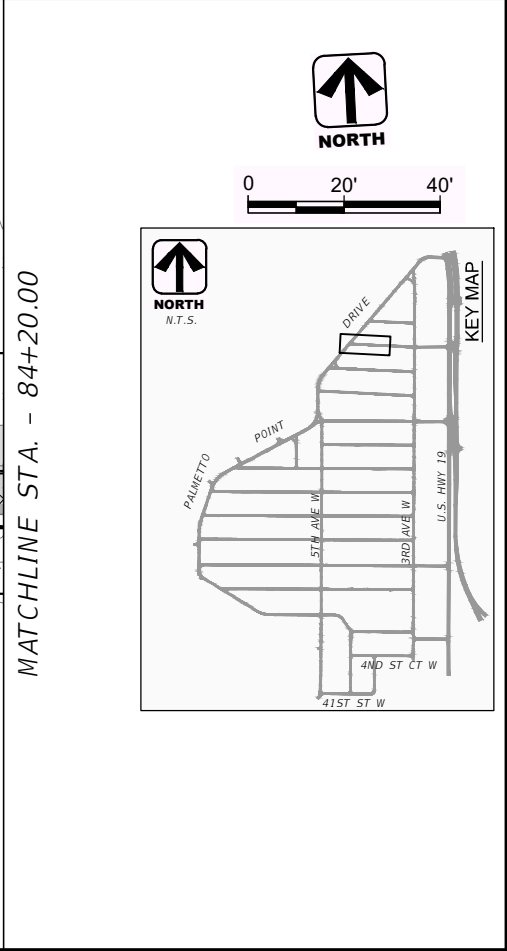
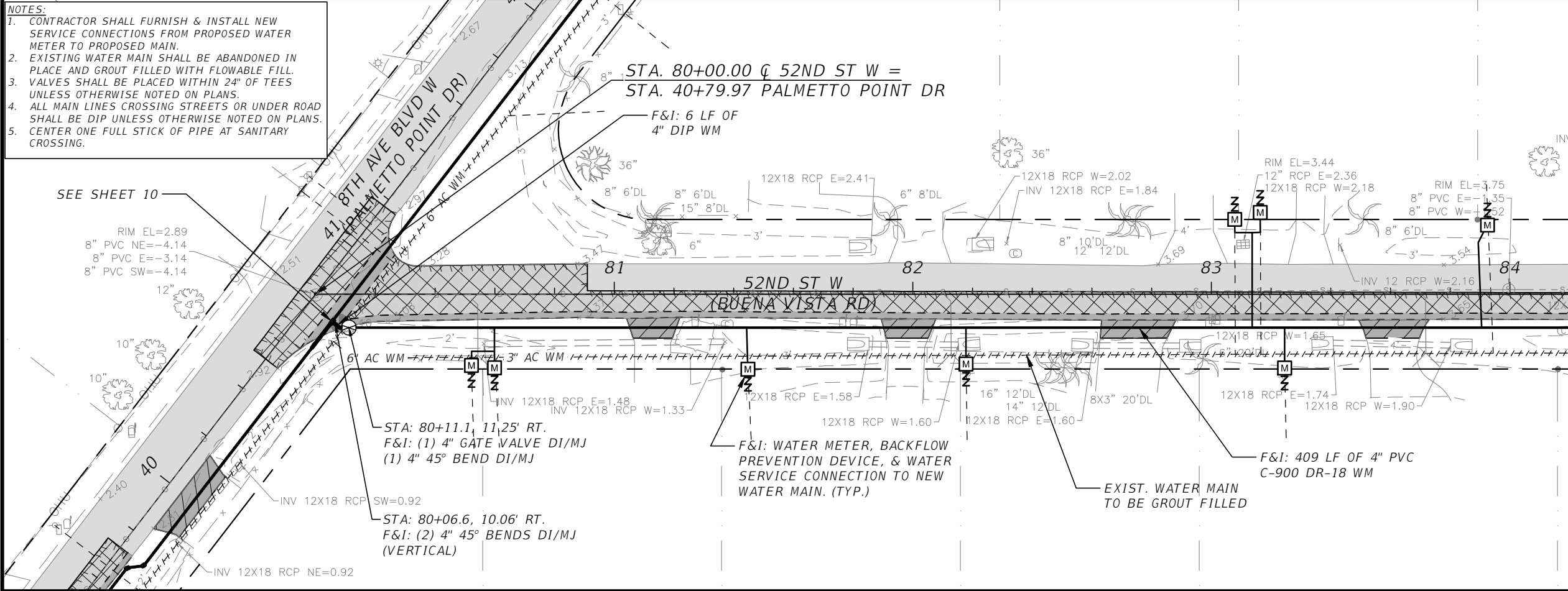
PLAN & PROFILE - 53RD ST. W.

SHEET NO.
31

AA-Standard.sib
 DESIGNED BY: CKM
 DRAWN BY: AD
 CHECKED BY: CKM
 PROJECT NO: 66-0172.00
 DATE: NOV 2019
 MANATEE COUNTY - Palmetto Point Water Main Drawings 66-0172.00 P07 - 53rd St W.dwg, Layout: 31

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL. VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
	AYRES ASSOCIATES
	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



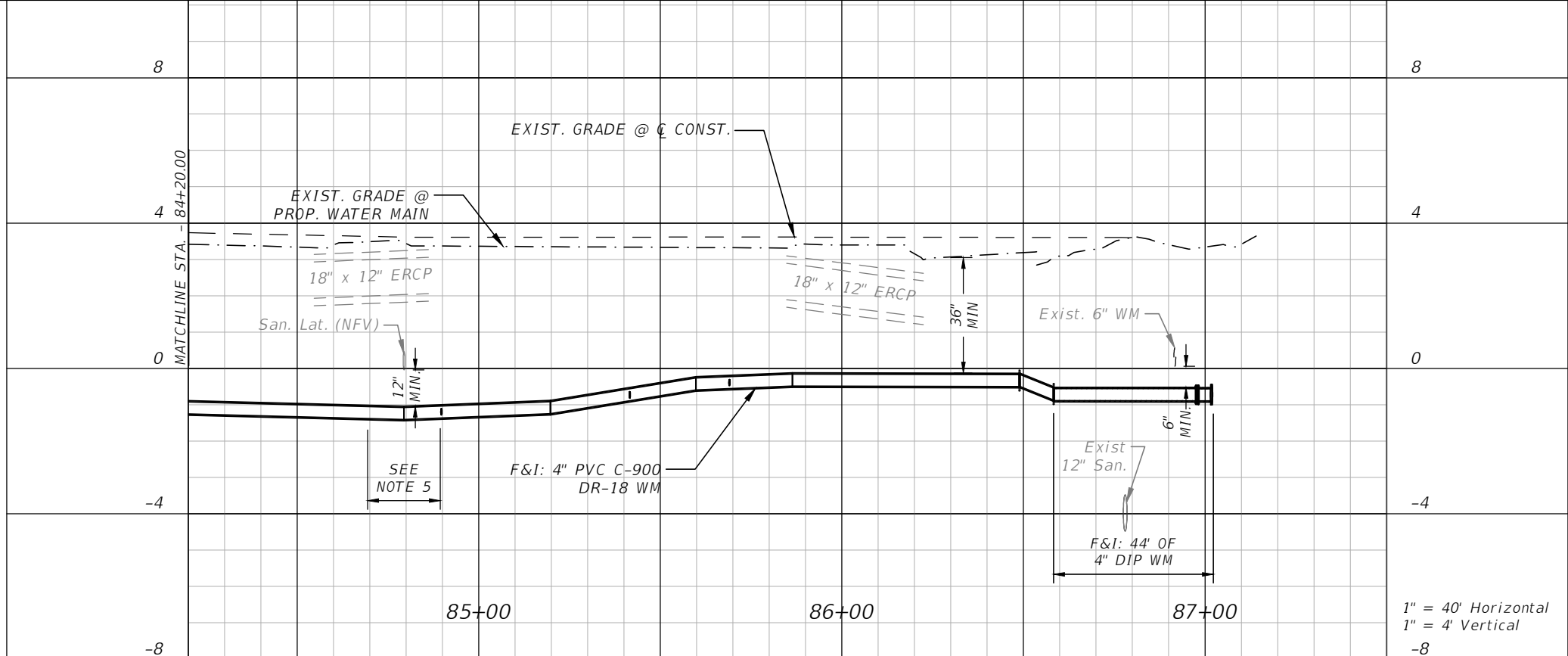
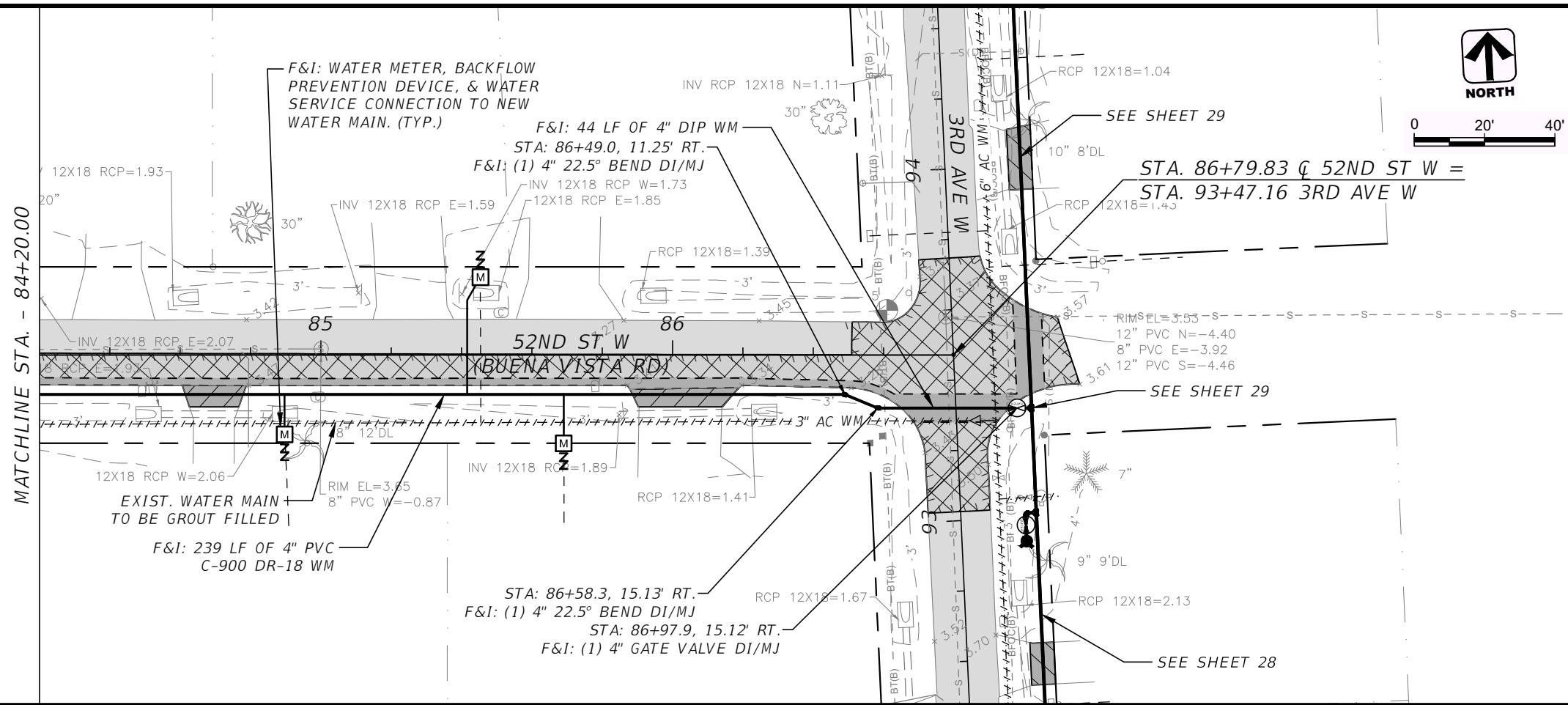
PLAN & PROFILE - 52ND ST. W.

SHEET NO.
32

AA-Standard.dwg
 1/16/2017 10:00 AM - Manatee County - Palmetto Point Water Main Drawings (66-0172.00) FPOB - 52nd St. W.dwg, Layout: 32

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
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 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.dwg
 1/16/2017 10:00 - Manatee County - Palmetto Point Water Main Drawings (66-0172.00 FP08 - 52nd St W.dwg) Layout: 33

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

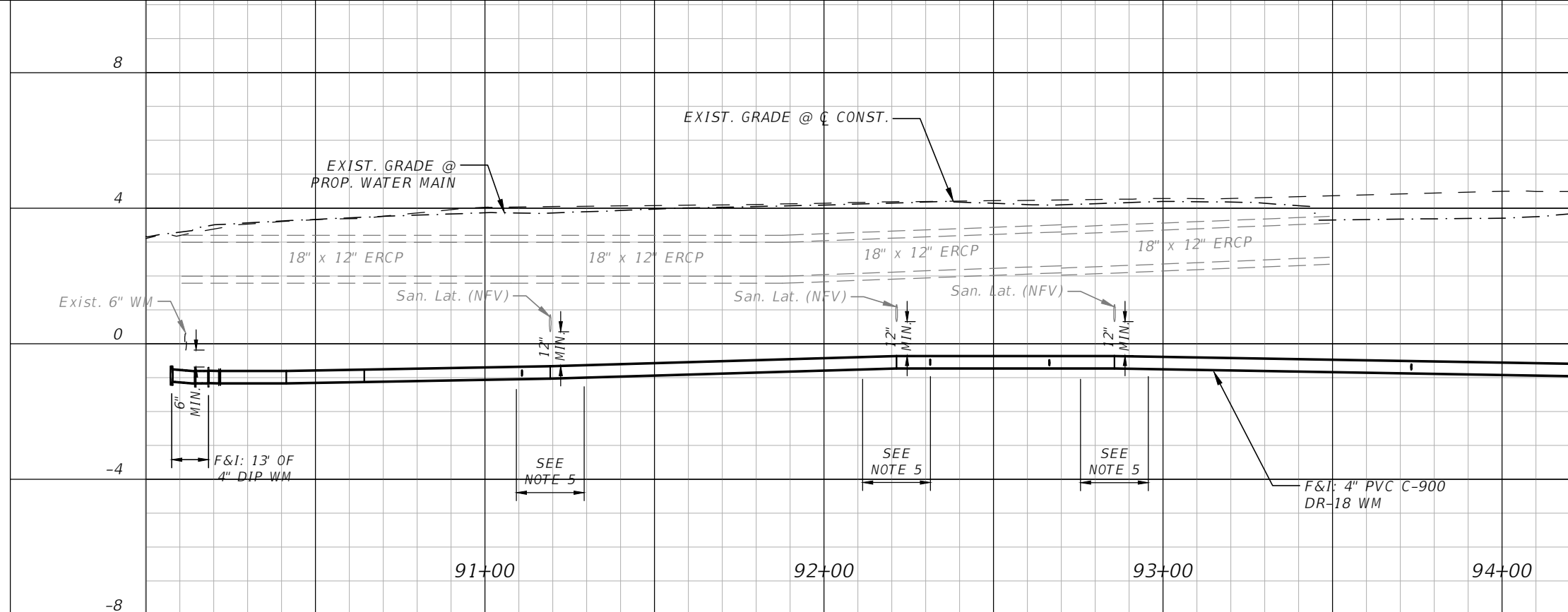
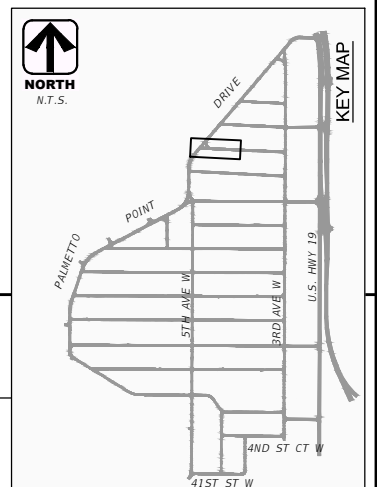
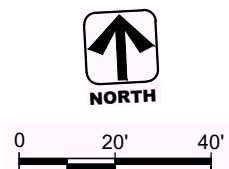
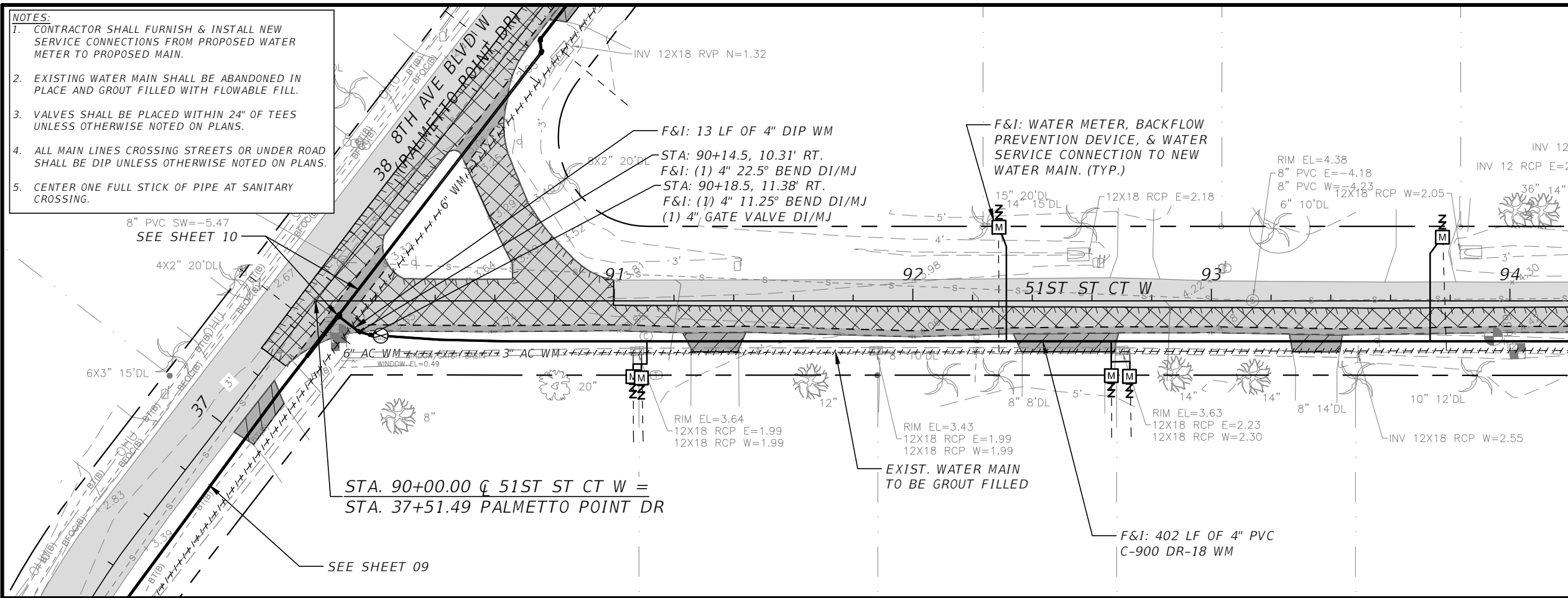


PLAN & PROFILE - 52ND ST. W.

SHEET NO. **33**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
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 4. ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.sib
 DESIGNED BY: CKM
 DRAWN BY: AD
 CHECKED BY: CKM
 PROJECT NO: 66-0172.00
 DATE: NOV 2019
 MANATEE COUNTY - Palmetto Point Water Main Drawings 66-0172.00 FP09 - 51st St Ct W.dwg, Layout, 34

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS



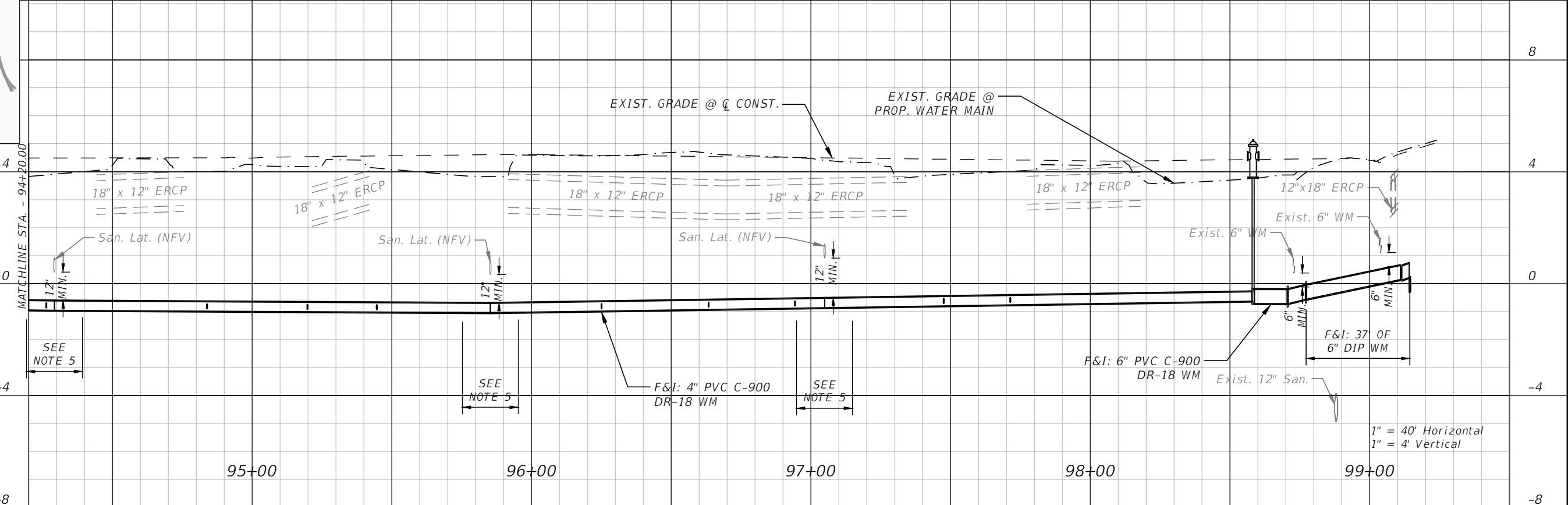
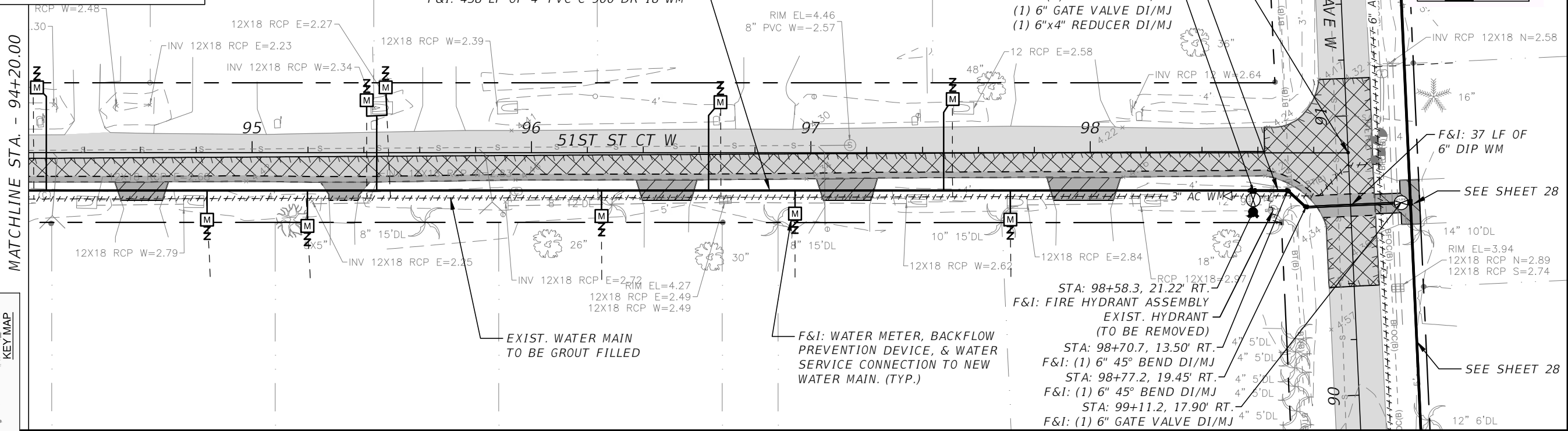
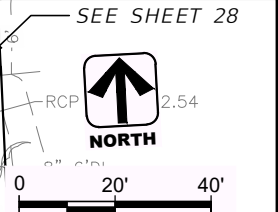
PLAN & PROFILE - 51ST ST. CT. W.

SHEET NO. 34

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
 - VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.

STA. 98+92.26 @ 51ST ST CT W =
 STA. 90+86.79 3RD AVE W
 F&I: 21 LF OF 6" PVC
 DR-18 WM
 STA: 98+58.3, 13.50' RT.
 F&I: (1) 6"x6" TEE DI/MJ
 (1) 6" GATE VALVE DI/MJ
 (1) 6"x4" REDUCER DI/MJ



1" = 40' Horizontal
 1" = 4' Vertical

AA-Standard.sib
 J:\660172.00 - Manatee County - Palmetto Point Water Main\Drawings\660172.00 FP09 - 51st St Ct W.dwg Layout_35

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

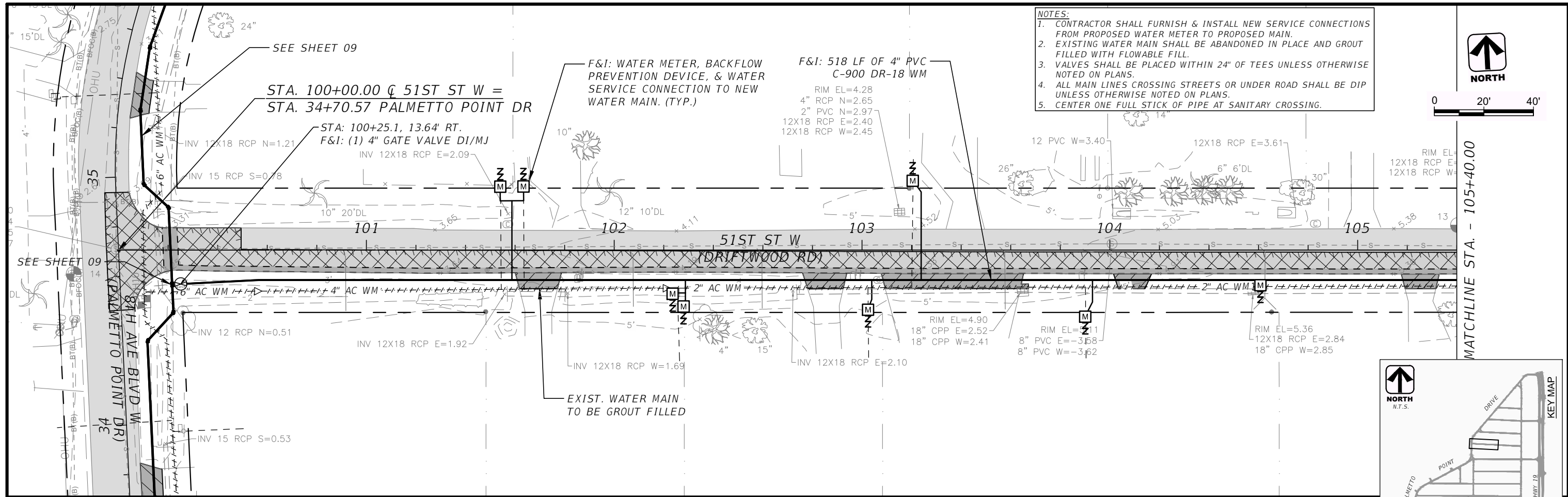
**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**



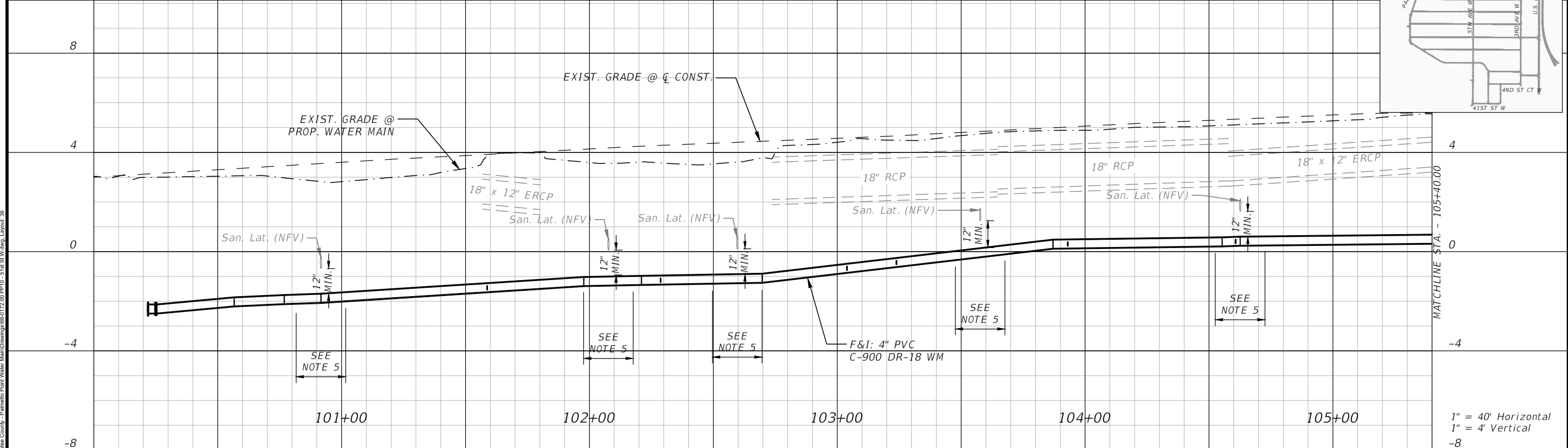
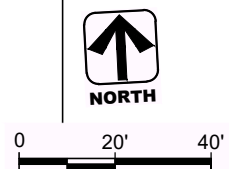
PLAN & PROFILE - 51ST ST. CT. W.

SHEET NO.
35

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



DES BY	CKM		
DR BY	AD	PROJ NO	66-0172.00
CHK BY	CKM	DATE	NOV 2019
		NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



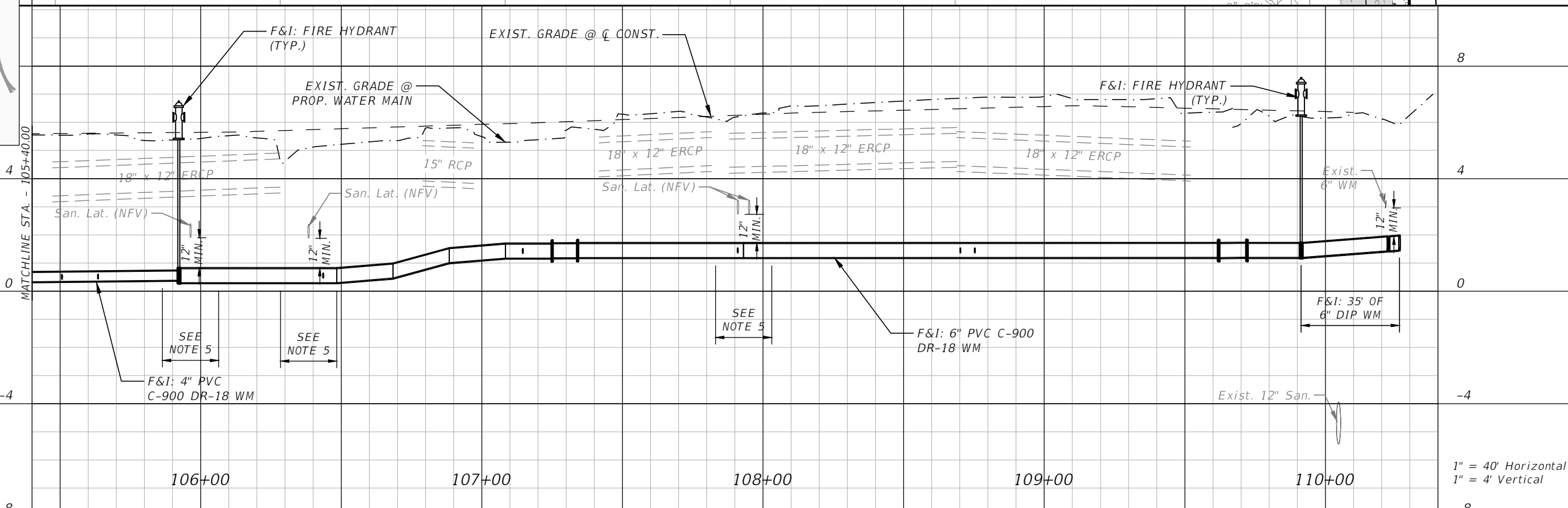
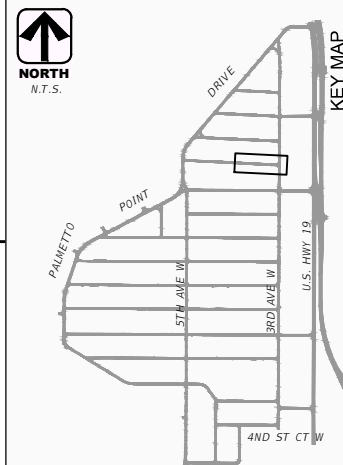
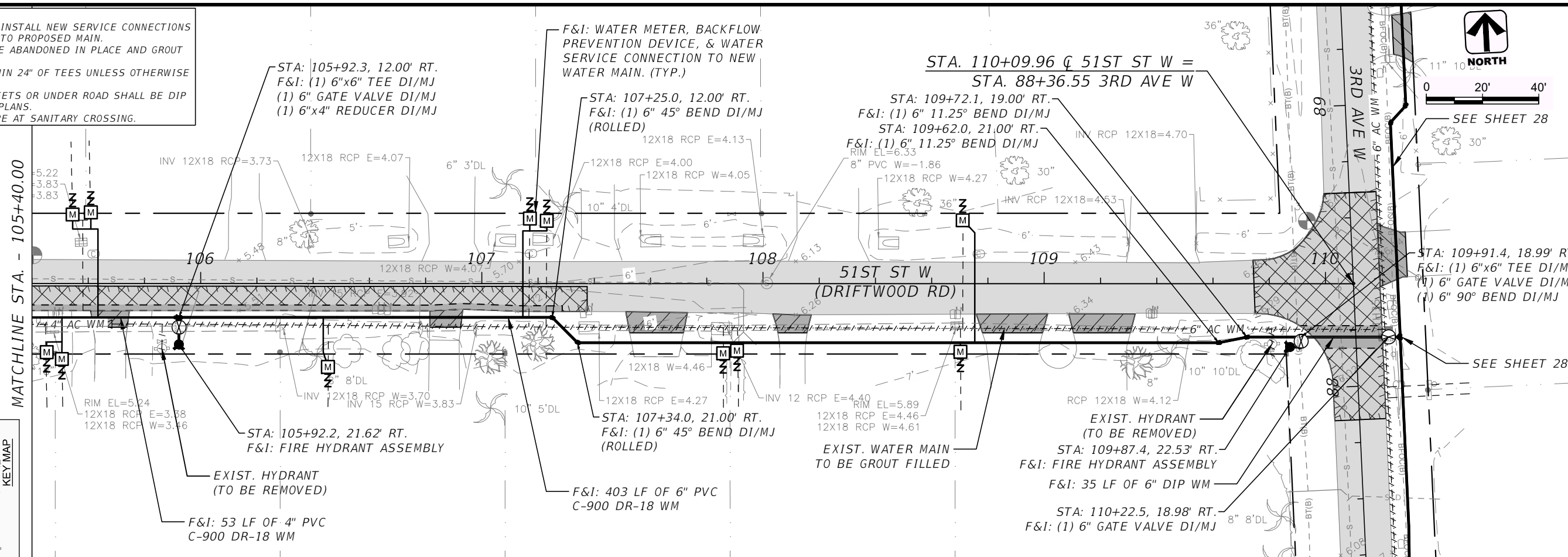
PLAN & PROFILE - 51ST ST. W.

SHEET NO.	36
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AA-Standard.dwg
J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 PP10 - 51st St W.dwg, Layout: 36

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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AA-Standard.snb
 1/26/2017 10:00 - Manatee County - Palmetto Point Water Main Replacement 66-0172.00 RPT10 - 51st St W.dwg, Layout: 37

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

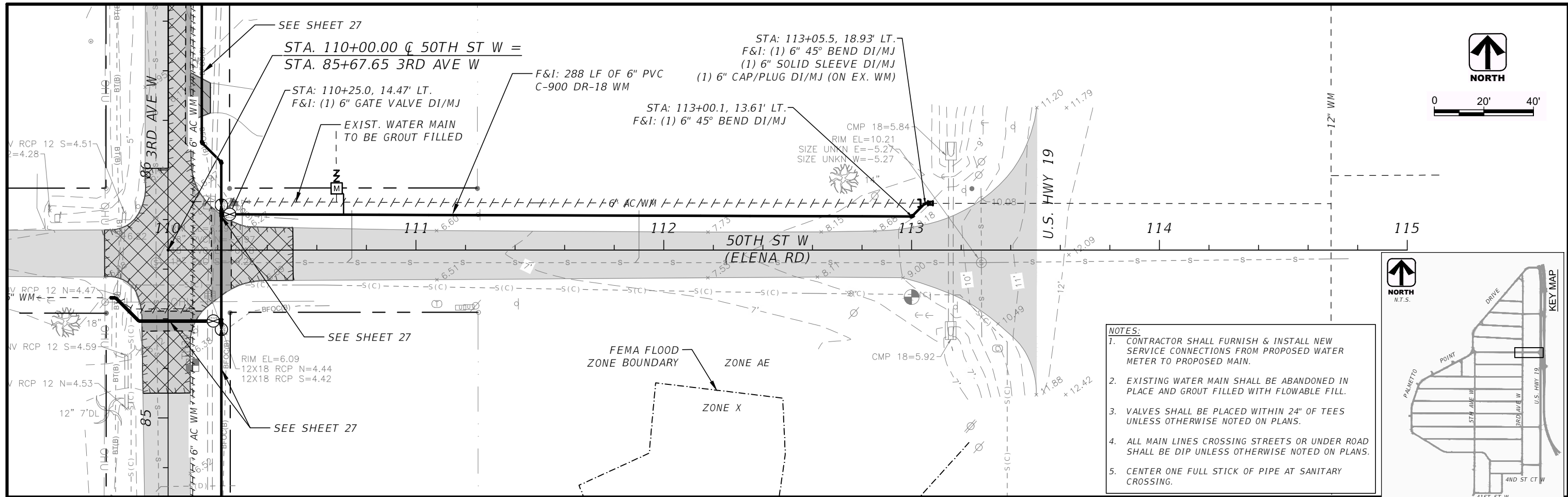
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



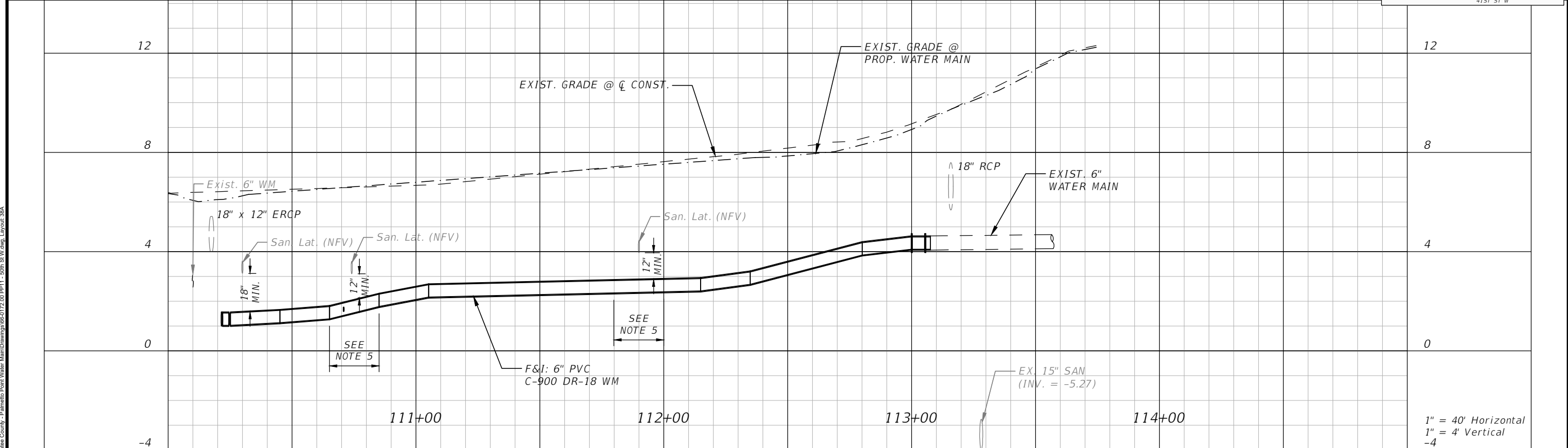
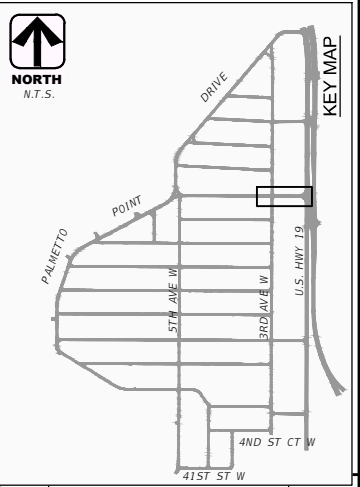
PLAN & PROFILE - 51ST ST. W.

SHEET NO.
37

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



DES BY	CKM
DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**

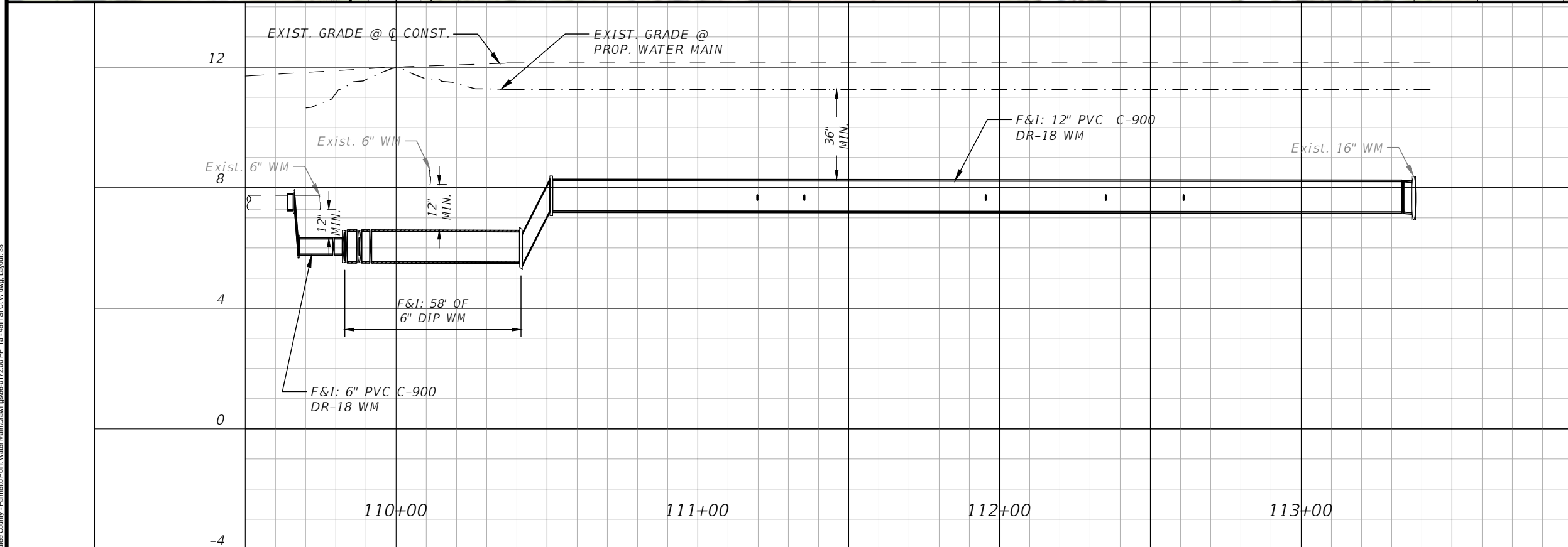
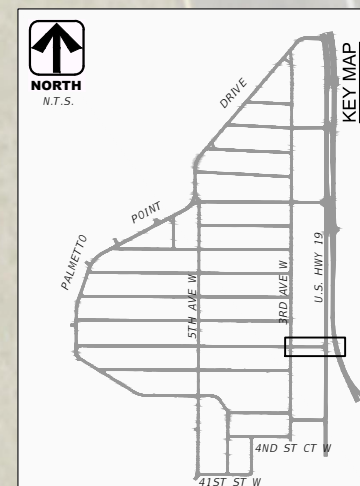
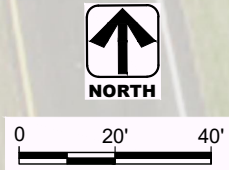
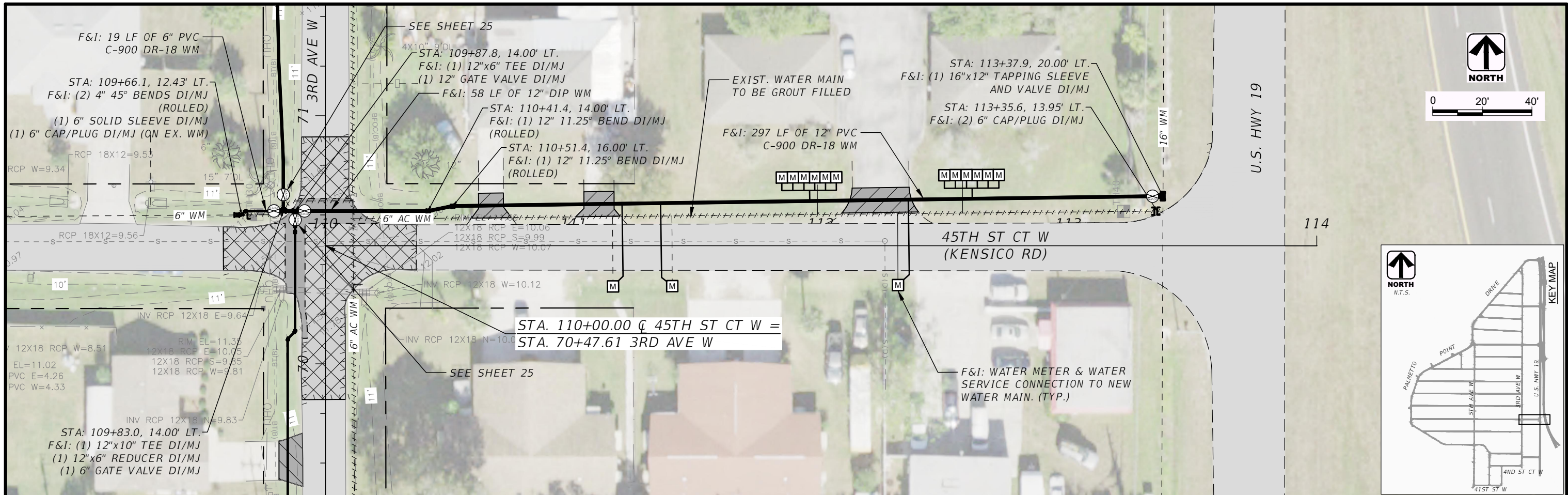


PLAN & PROFILE - 50TH ST W

SHEET NO.
38A

AA-Standard.dwg
 1/16/2017 10:00 AM
 Manatee County - Palmetto Point Water Main Drawings 66-0172.00 PP11 - 50th St W.dwg, Layout: 38A

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.

1" = 40' Horizontal
1" = 4' Vertical
-4

AA-Standard.dwg
N:\06-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00-PP11a - 45th St Ct W.dwg, Layout: 38

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

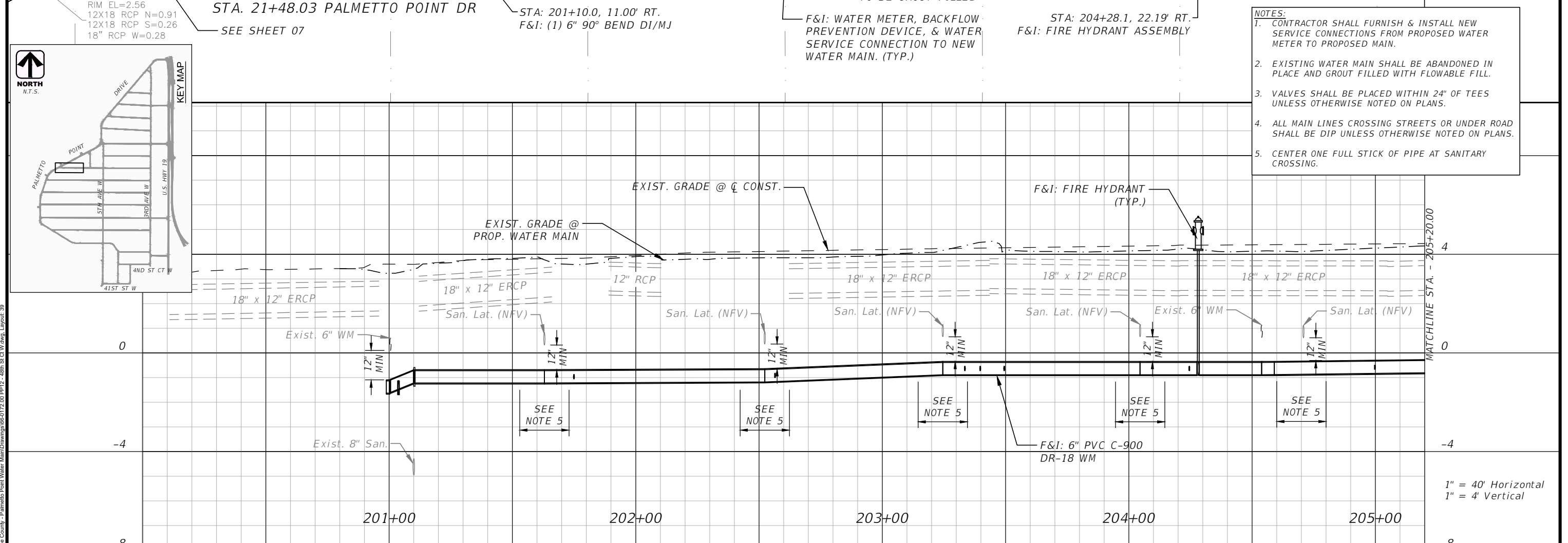
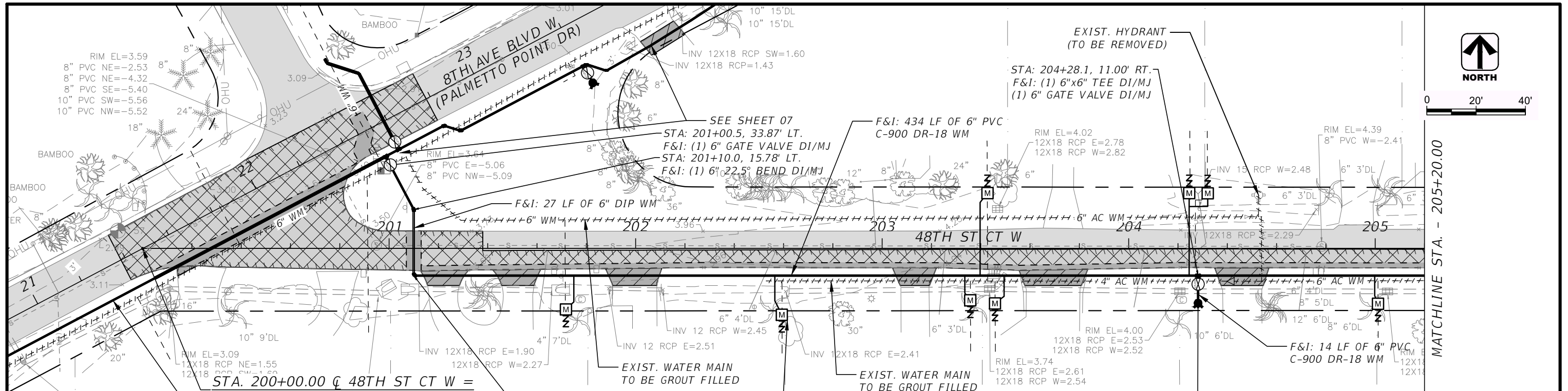
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



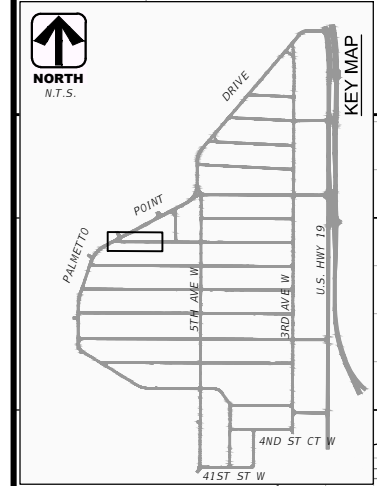
PLAN & PROFILE - 45TH ST CT W

SHEET NO.
38

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
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DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

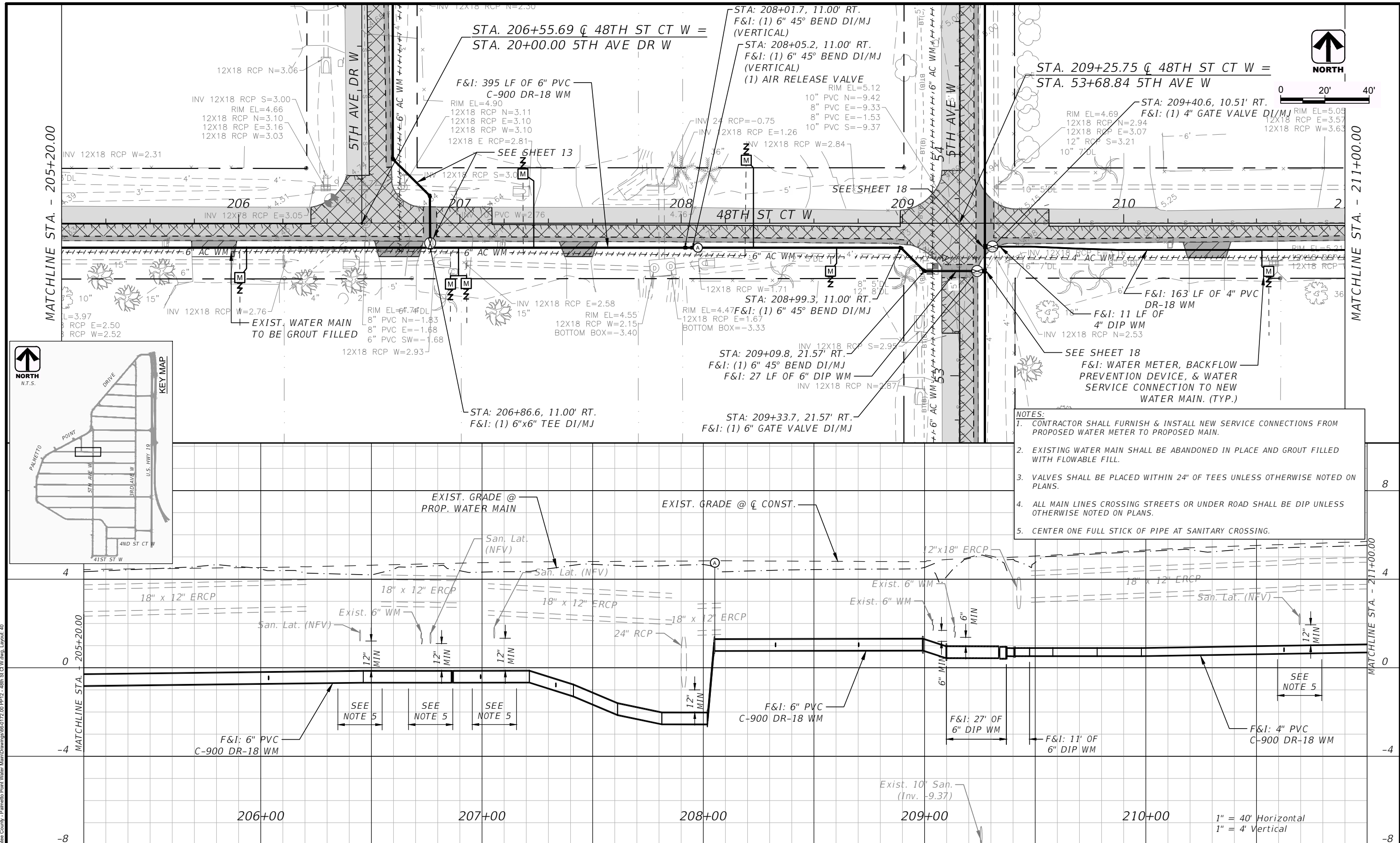
**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



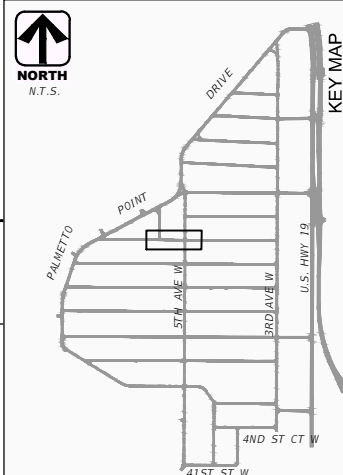
PLAN & PROFILE - 48TH ST. CT. W.

AA-Standard.sib
J:\66-0172.00-Manatee County-Palmetto Point Water Main\Drawings\66-0172.00-PP12-48th St Ct W.dwg, Layout, 39

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



0 20' 40'



- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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AA-Standard.sib
 1/26/2012 10:00 - Manatee County - Palmetto Point Water Main Drawings (660172.00) RPT12 - 48th St. Ct. W. (dwg) Layout: 40

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**

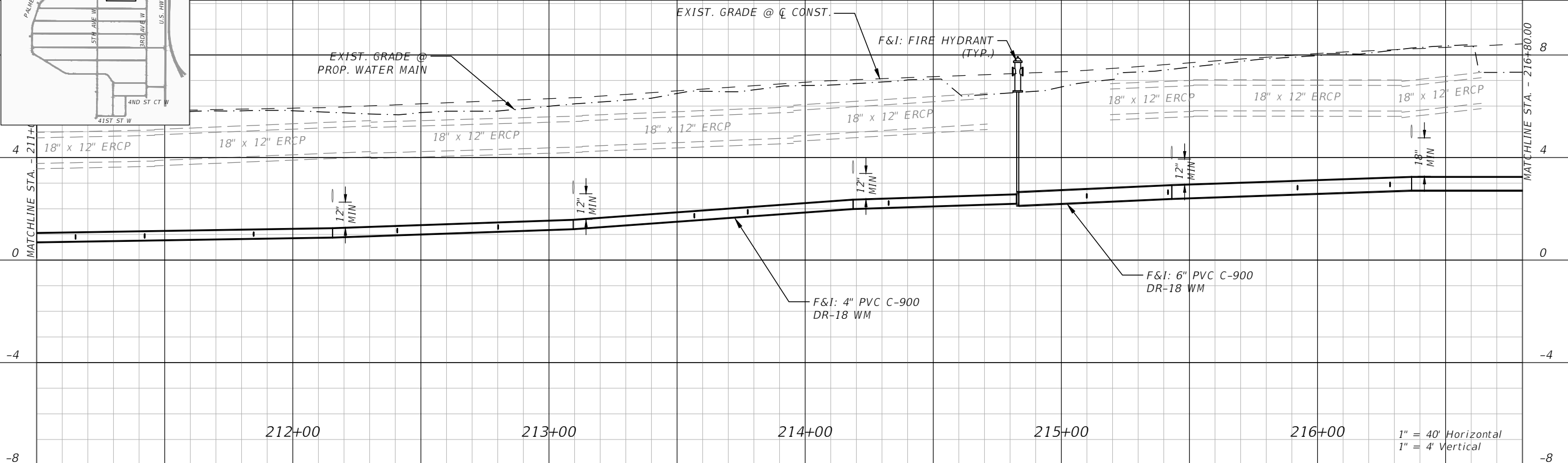
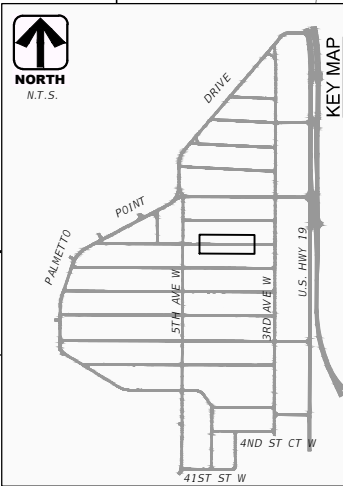
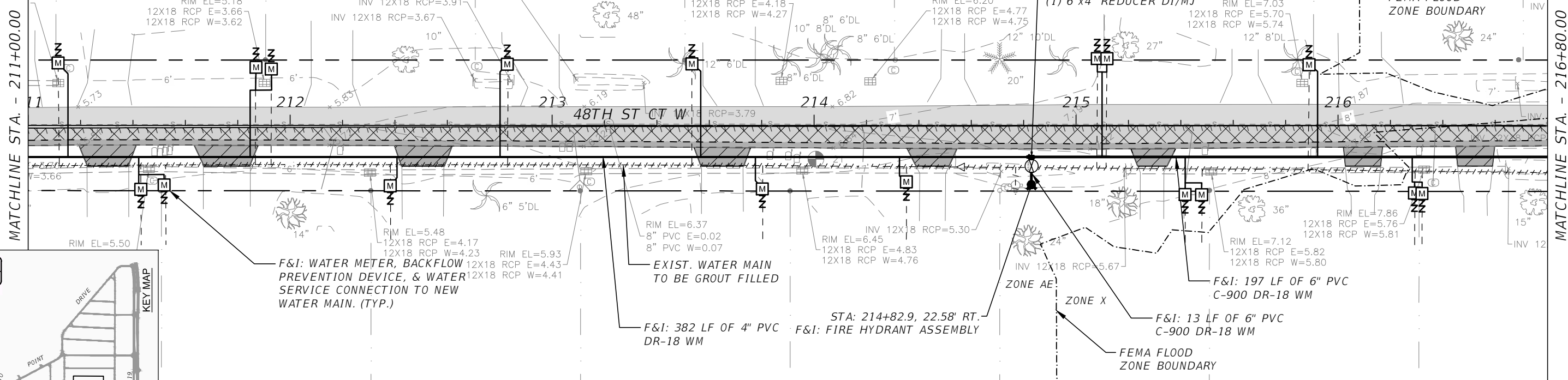
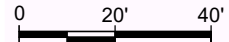


PLAN & PROFILE - 48TH ST. CT. W.

SHEET NO.
40

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
 - VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.sib
J:\660172.00 - Manatee County - Palmetto Point Water Main\Drawings\660172.00 PP12 - 48th St Ct W.dwg, Layout: 41

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

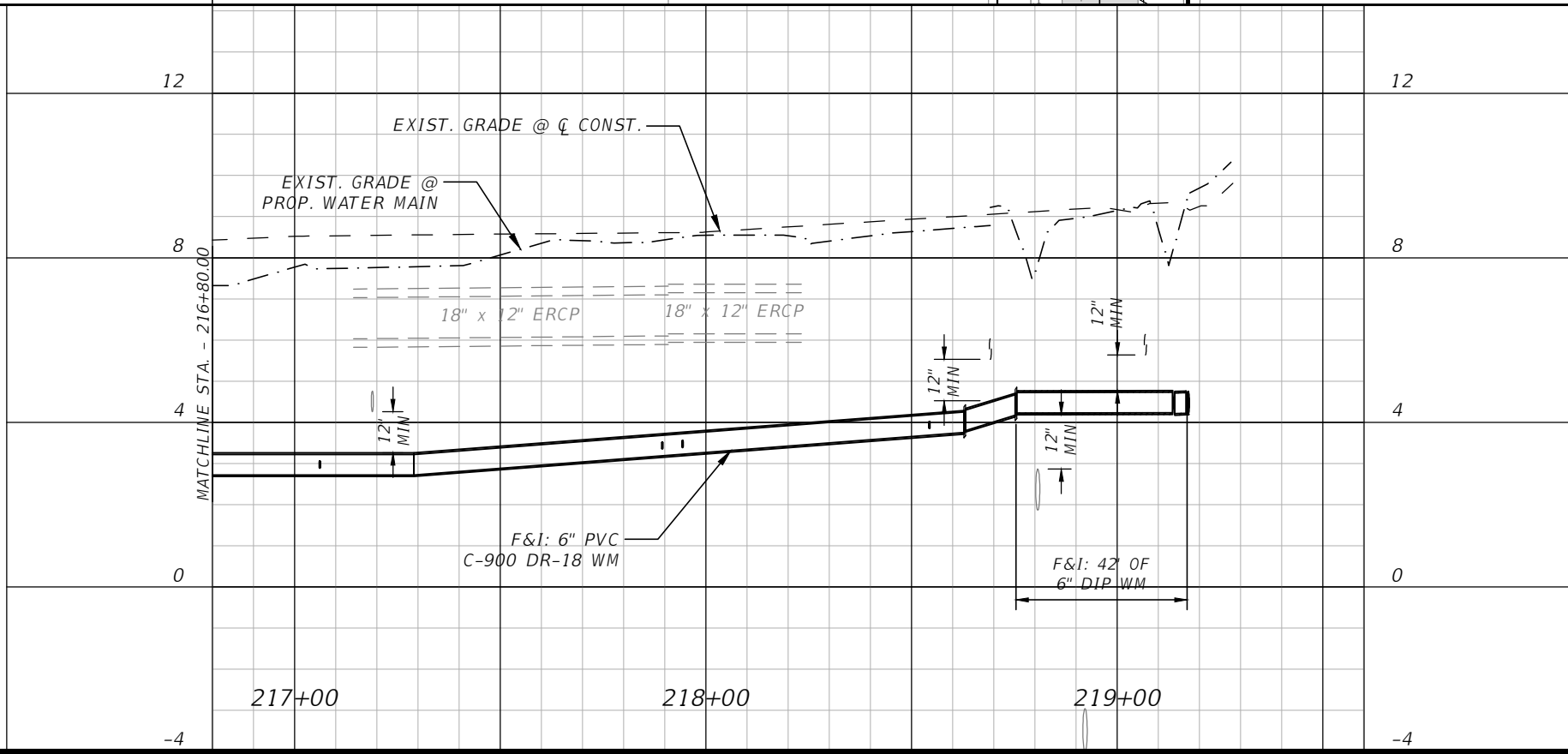
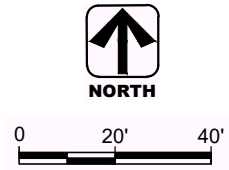
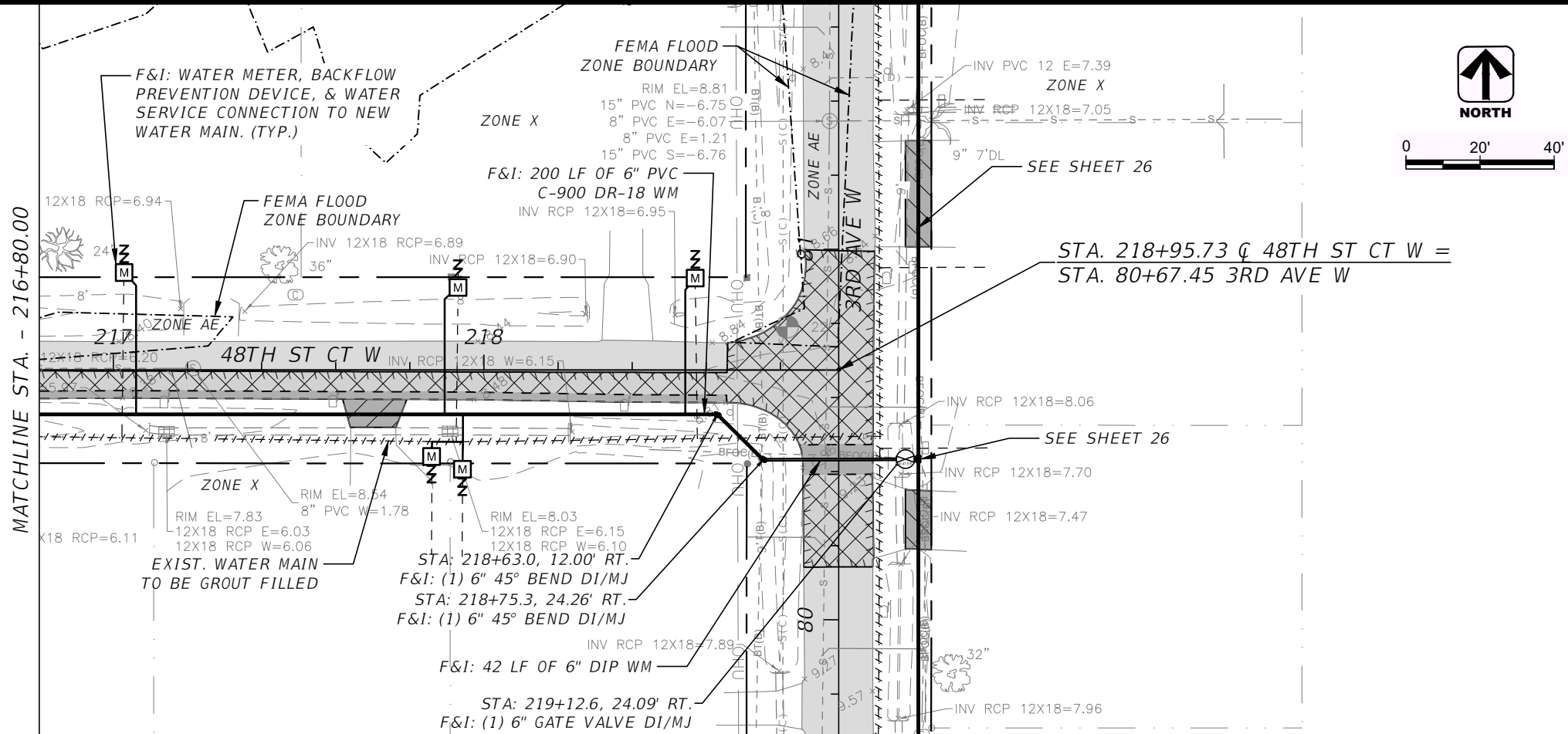


PLAN & PROFILE - 48TH ST. CT. W.

SHEET NO.
41

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



1" = 40' Horizontal
1" = 4' Vertical

AA-Standard.dwg
0/6/2012 10:00 - Manatee County - Palmetto Point Water Main Drawings (66-0172.00) PP12 - 48th St Ct W.dwg Layout: 42

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

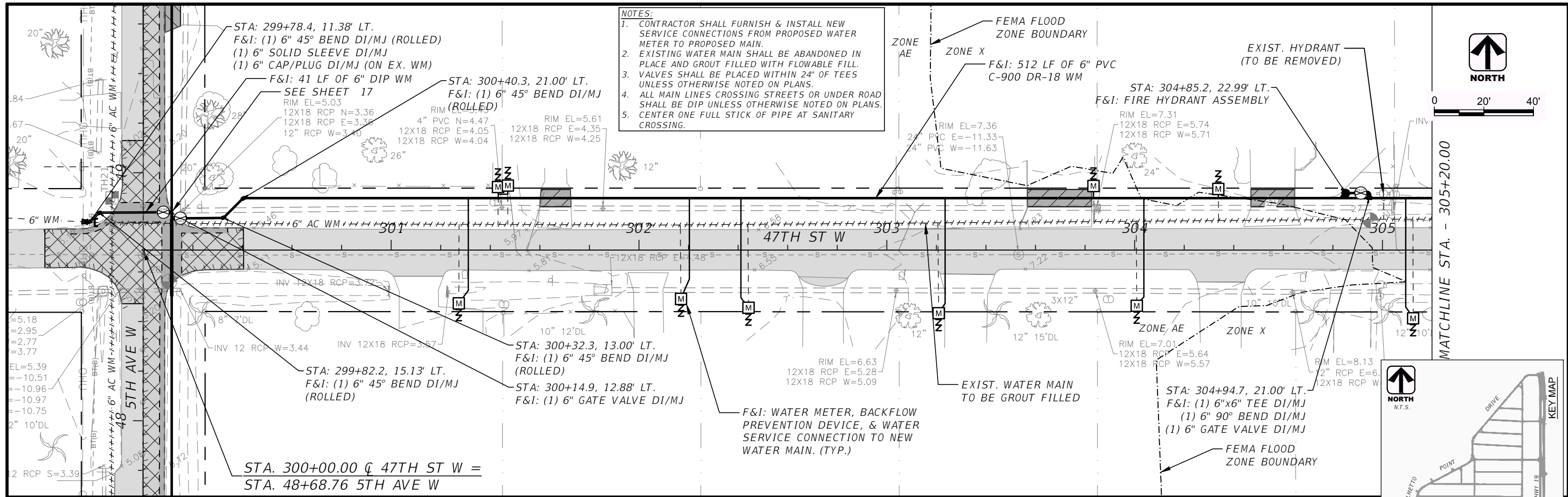
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



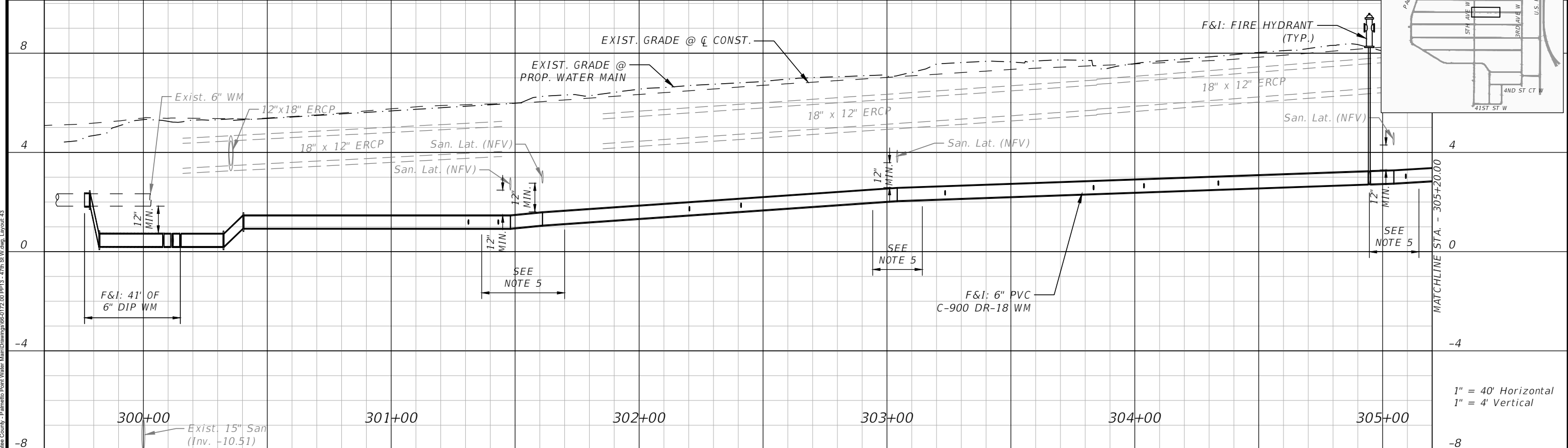
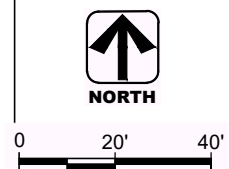
PLAN & PROFILE - 48TH ST. CT. W.

SHEET NO.
42

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES	8875 HIDDEN RIVER PKWY, SUITE 200
	TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

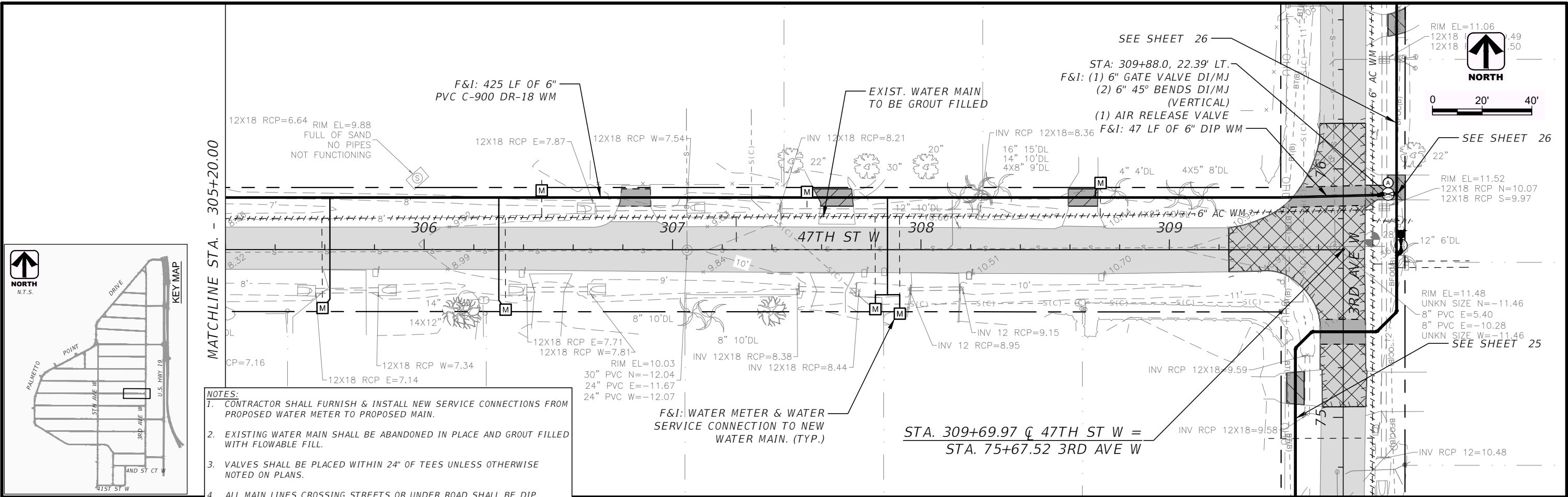
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



PLAN & PROFILE - 47TH ST. W.

SHEET NO.
43

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

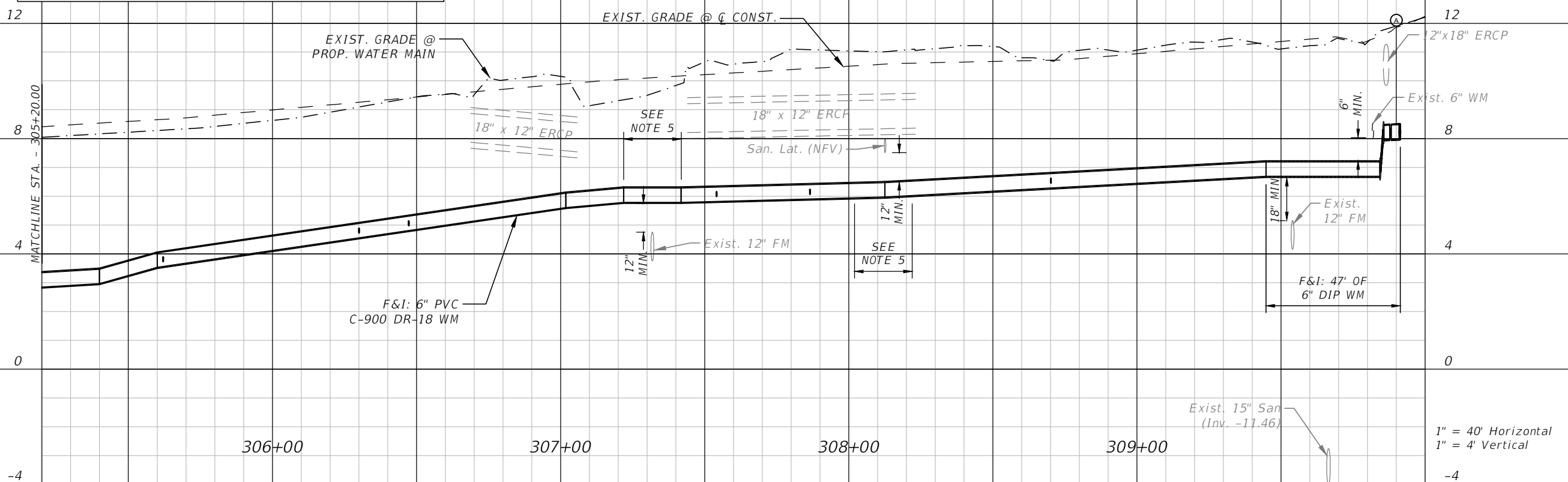
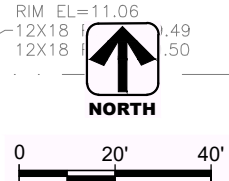


MATCHLINE STA. - 305+20.00

- NOTES:**
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 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.

F&I: WATER METER & WATER SERVICE CONNECTION TO NEW WATER MAIN. (TYP.)

STA. 309+69.97 @ 47TH ST W =
STA. 75+67.52 3RD AVE W



AA-Standard.sib
J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 RP13 - 47th St W.dwg, Layout: 44

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

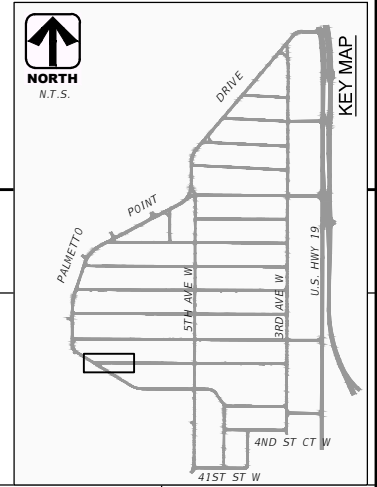
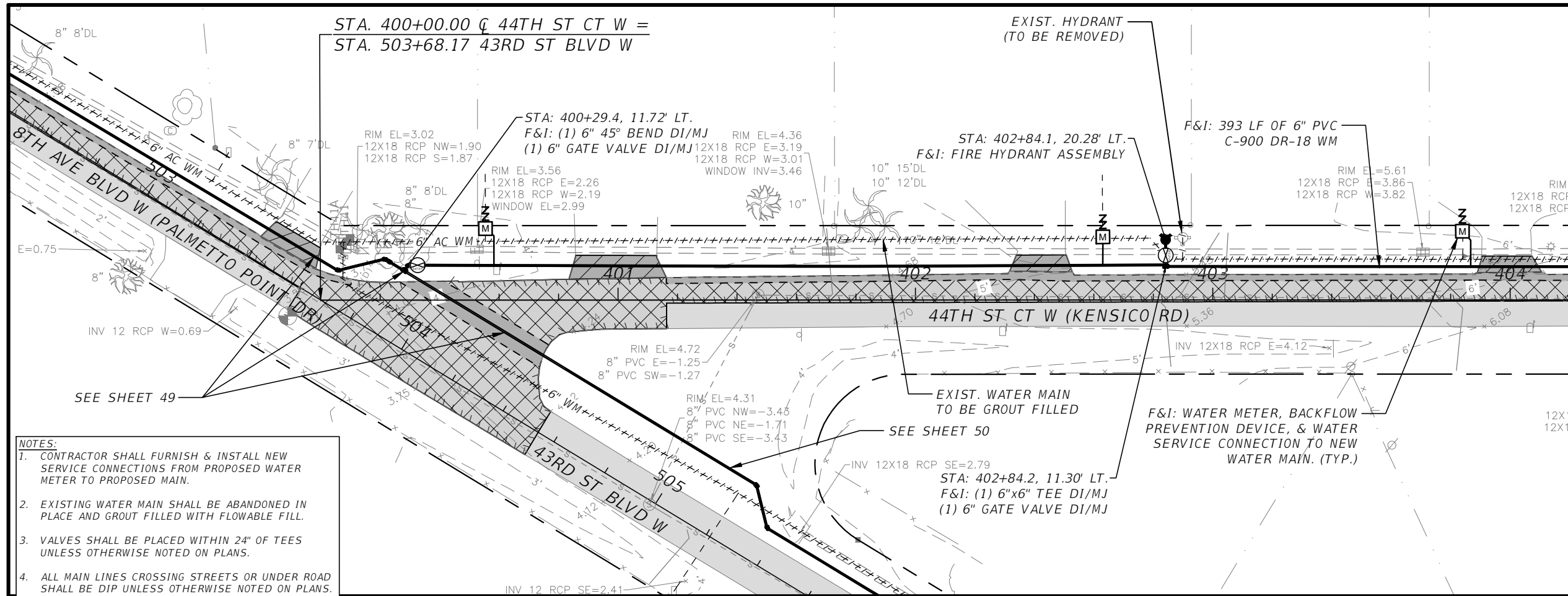
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



PLAN & PROFILE - 47TH ST. W.

SHEET NO.
44

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
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 4. ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.

AA-Standard.sib
 DESIGNED BY: CKM
 DRAWN BY: AD
 CHECKED BY: CKM
 DATE: NOV 2019
 PROJECT NO: 66-0172.00
 MANATEE COUNTY - PALMETTO POINT WATER MAIN REPLACEMENT (66-0172.00) (P14 - 44th St Ct W.dwg) Layout: 45

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

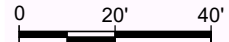
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



PLAN & PROFILE - 44TH ST. CT. W.

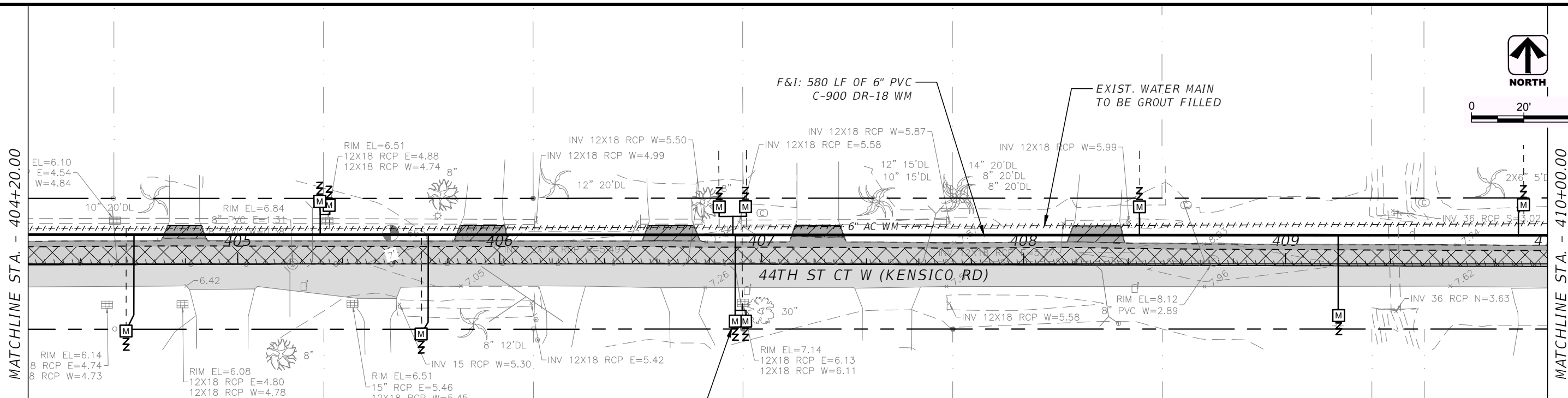
SHEET NO.
45

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 404+20.00

MATCHLINE STA. - 410+00.00

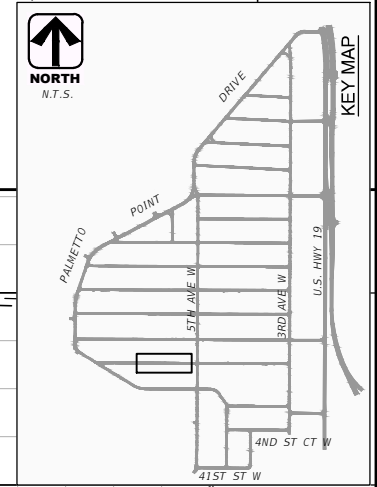
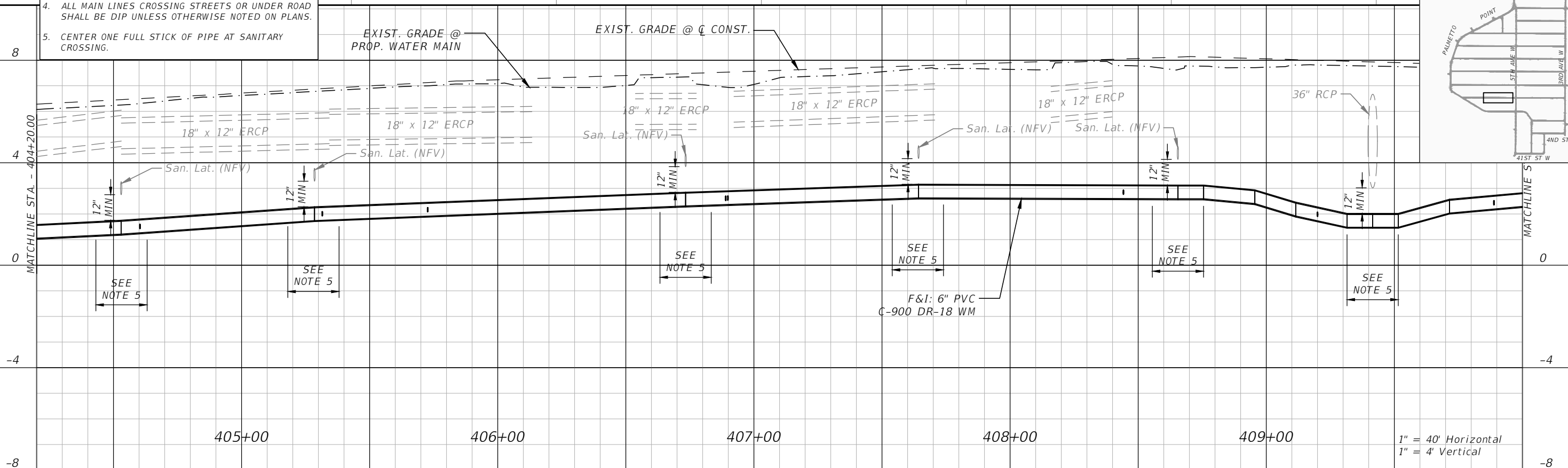


- NOTES:
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F&I: WATER METER, BACKFLOW PREVENTION DEVICE, & WATER SERVICE CONNECTION TO NEW WATER MAIN. (TYP.)

EXIST. GRADE @ PROP. WATER MAIN

EXIST. GRADE @ C CONST.



1" = 40' Horizontal
1" = 4' Vertical

AA-Standard.dwg
J:\660172\00-Manatee County-Palmetto Point Water Main\Drawings\660172\00 RPT14-44th St CT W.dwg Layout_46

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

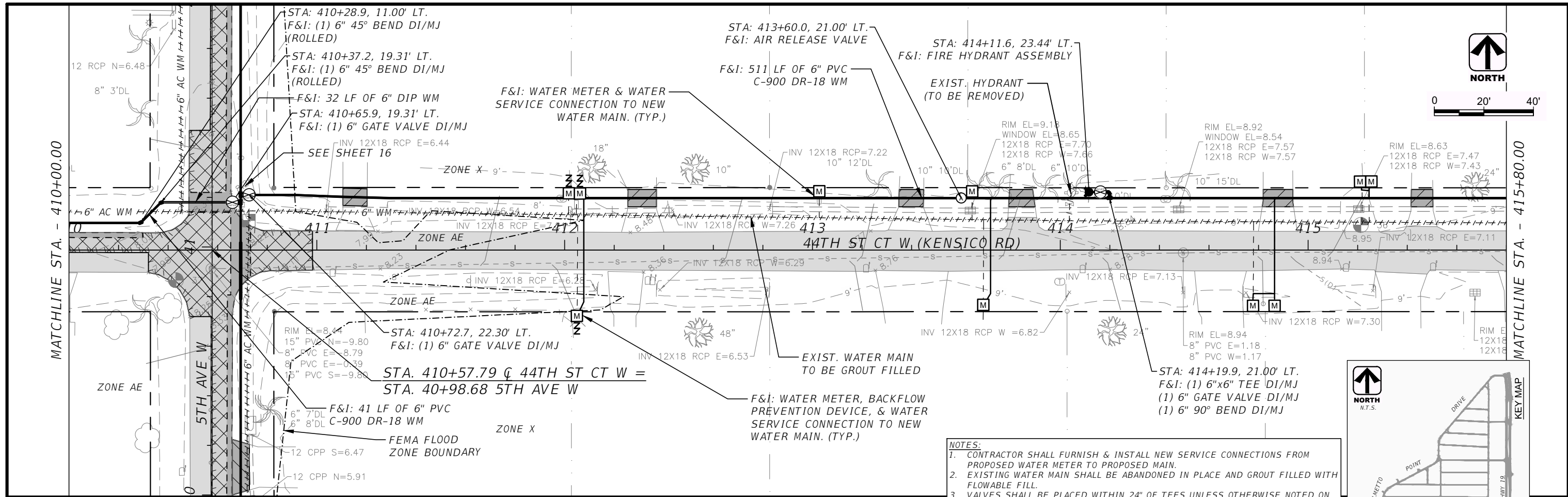
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



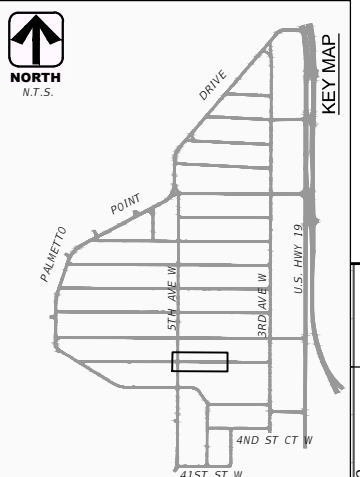
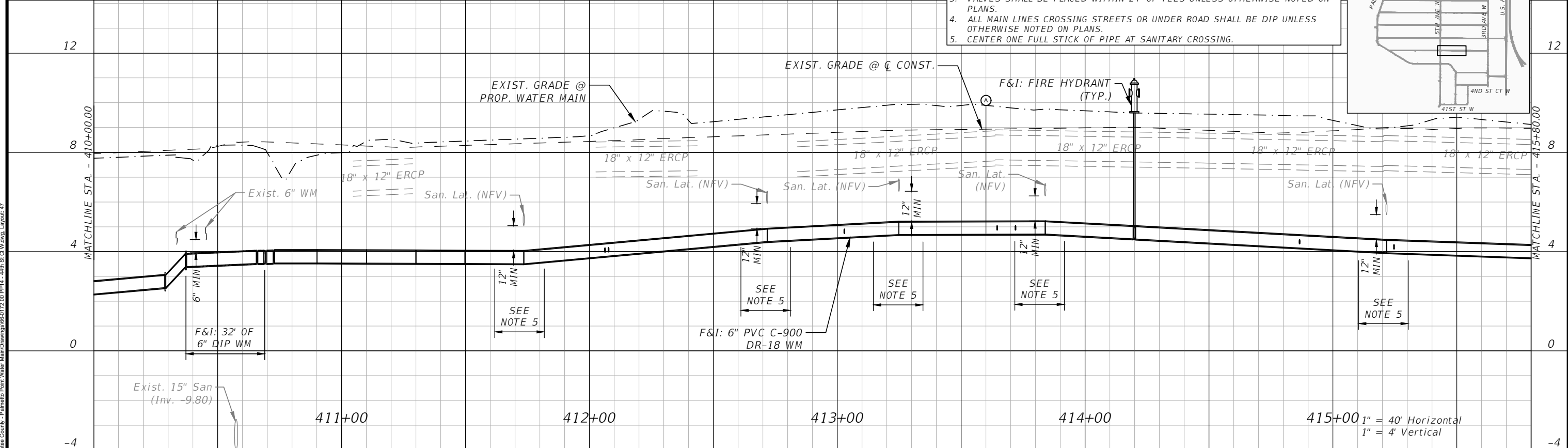
PLAN & PROFILE - 44TH ST. CT. W.

SHEET NO.
46

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



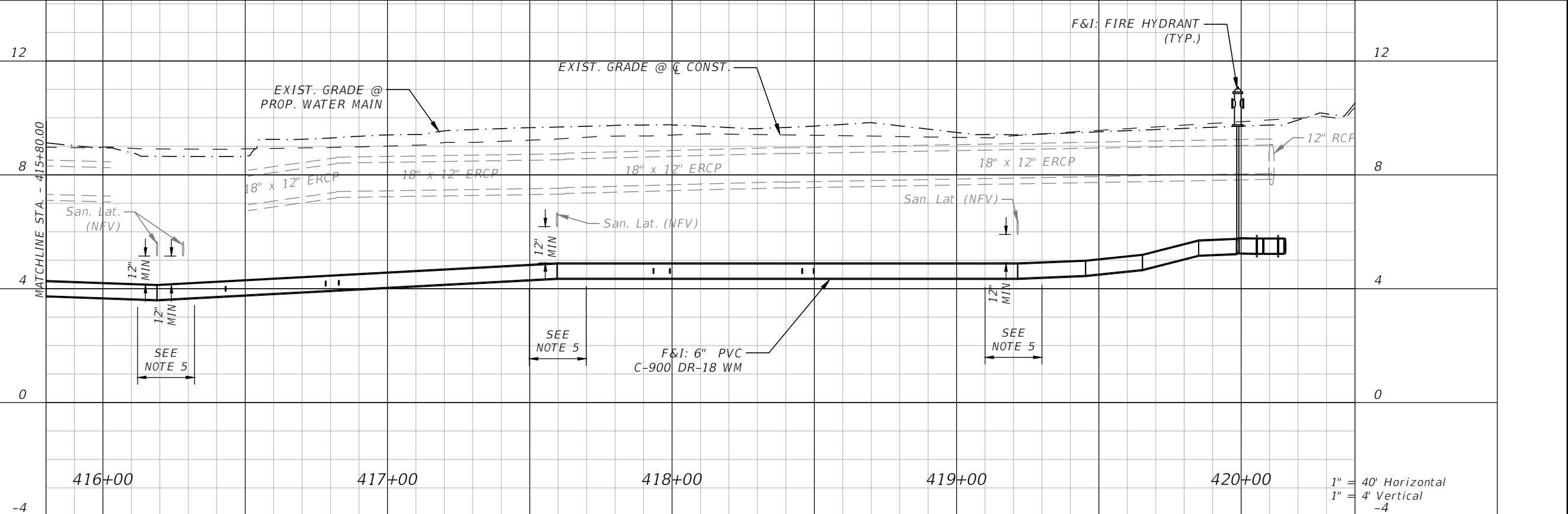
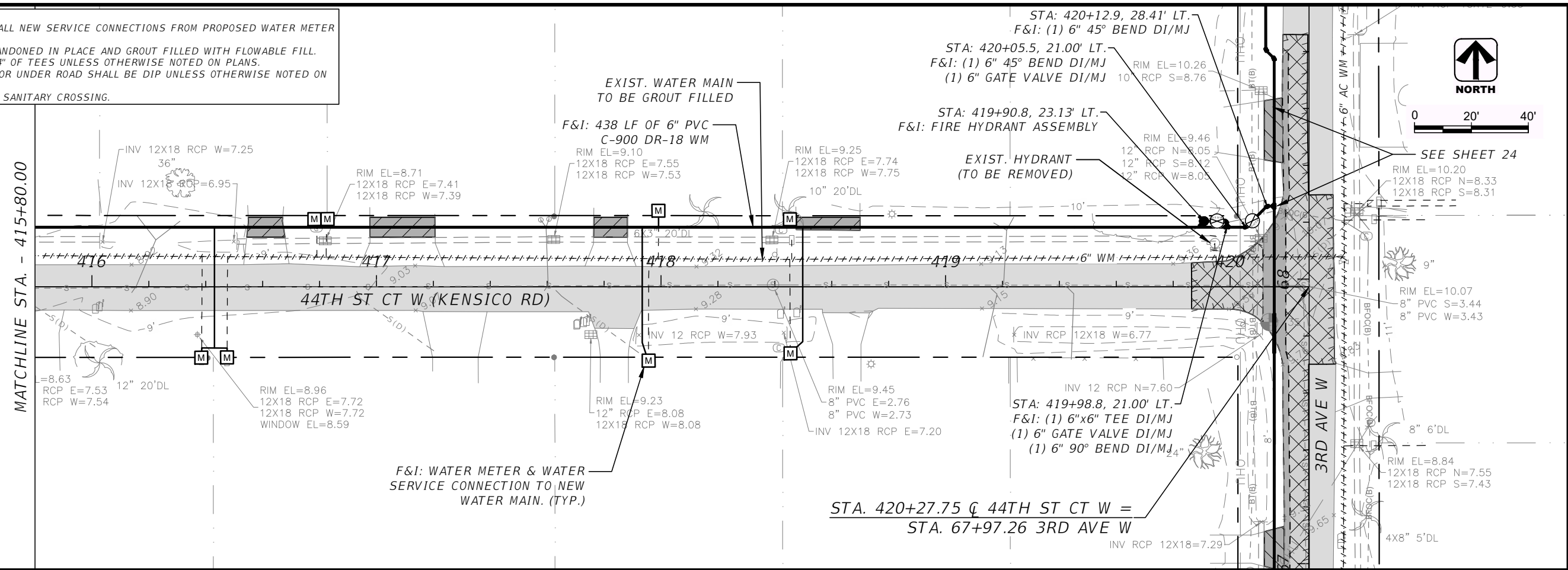
- NOTES:**
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 5. CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.sib
 DESIGNED BY: CKM
 DRAWN BY: AD
 CHECKED BY: CKM
 PROJECT NO: 66-0172.00
 DATE: NOV 2019
 NO. DATE REVISION
 PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356
 PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS
 AVRES ASSOCIATES
 TAMPA, FLORIDA
 PLAN & PROFILE - 44TH ST. CT. W.
 SHEET NO. 47

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:
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DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES	8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688	CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

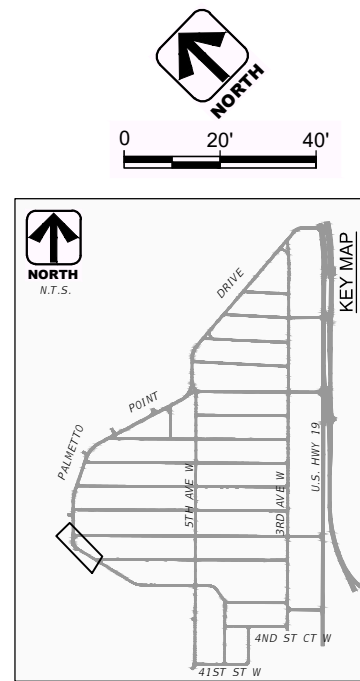
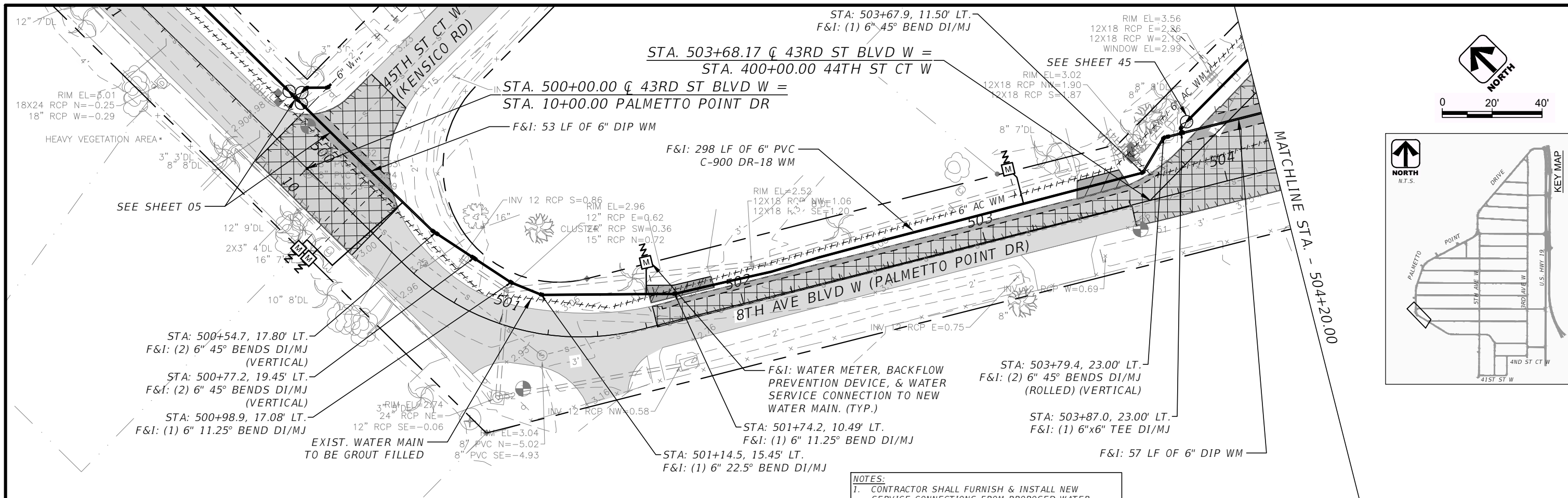


PLAN & PROFILE - 44TH ST. CT. W.

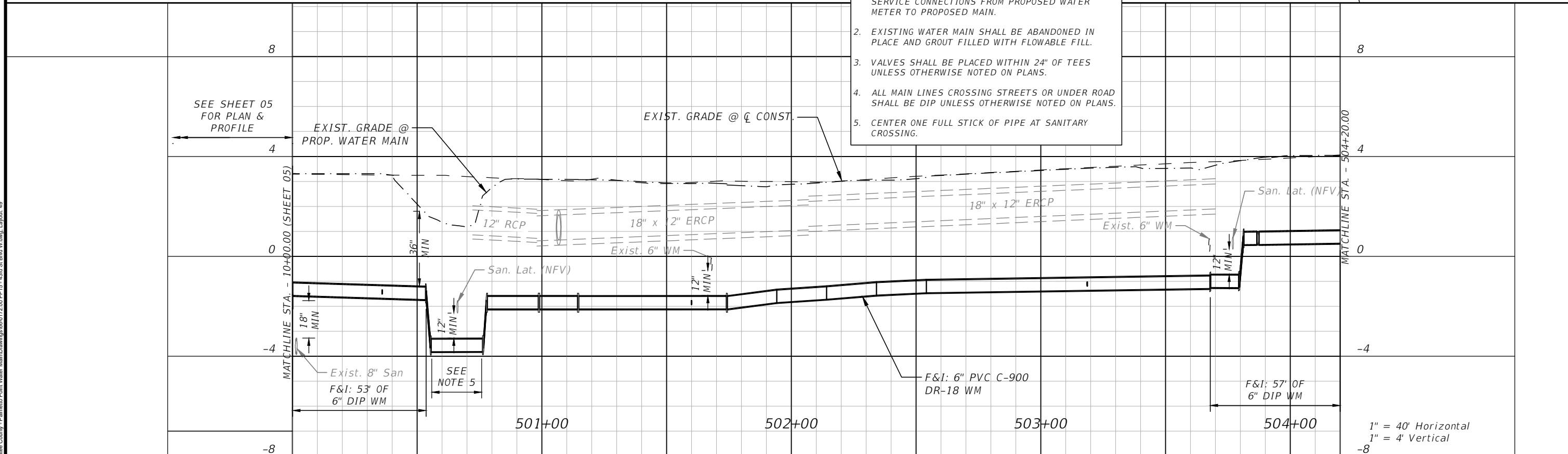
SHEET NO. 48

AA-Standard.sib
 1/16/2017 10:00 AM - Manatee County - Palmetto Point Water Main Drawing 66-0172.00 RPT 14 - 44th St Ct W.dwg Layout: 48

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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DES BY	CKM
DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS**

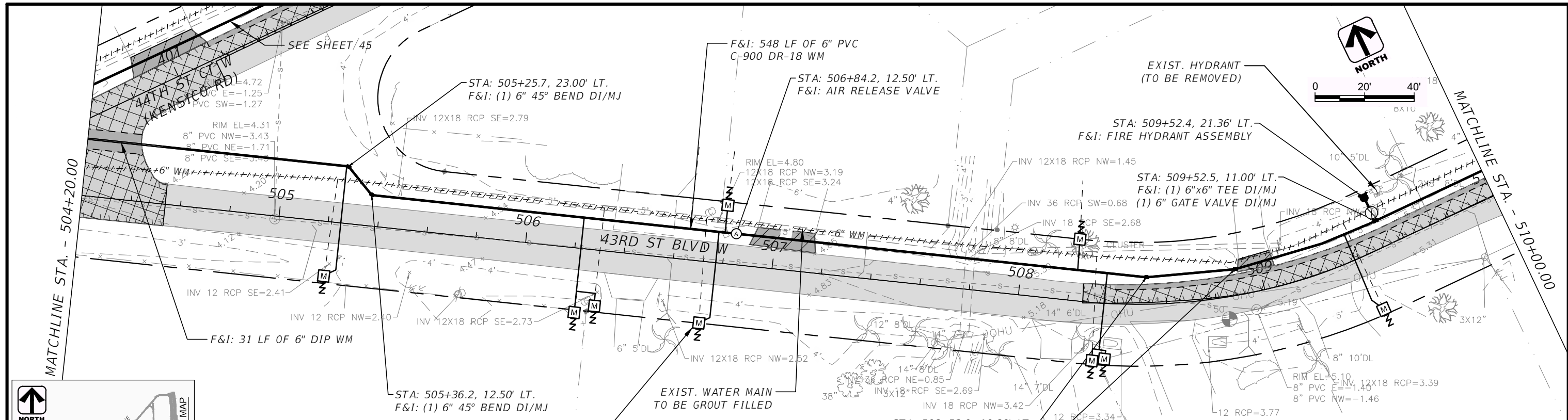


PLAN & PROFILE - 43RD ST. BLVD. W.

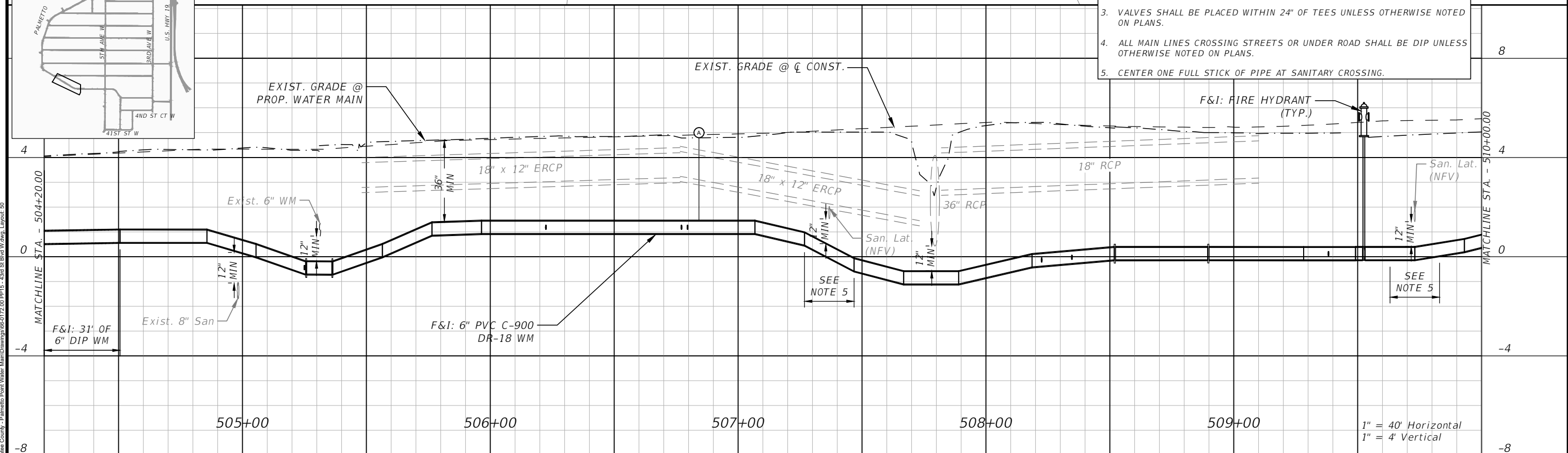
SHEET NO.
49

AA-Standard.sib
 J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 PP15 - 43rd St Blvd W.dwg, Layout: 49

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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DES BY	CKM		
DR BY	AD	PROJ NO	66-0172.00
CHK BY	CKM	DATE	NOV 2019
		NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:	CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES	8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688	CERT. OF AUTH. #4356

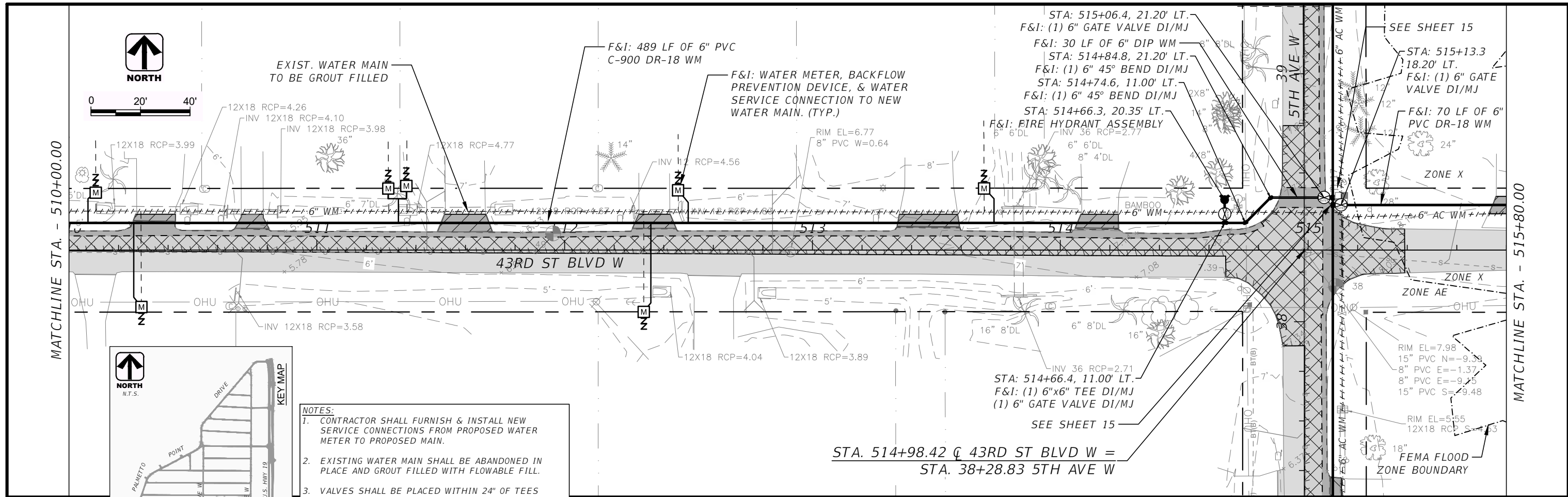
**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



PLAN & PROFILE - 43RD ST. BLVD. W.

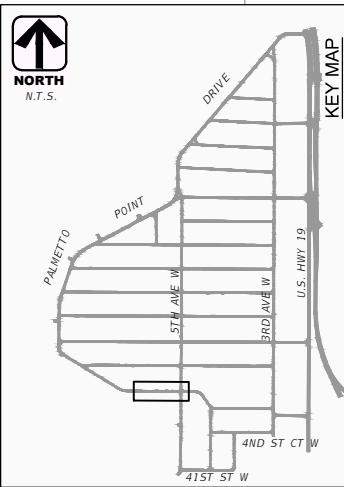
AA-Standard.sib
J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 RPT15 - 43rd St Blvd W.dwg, Layout: 50

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



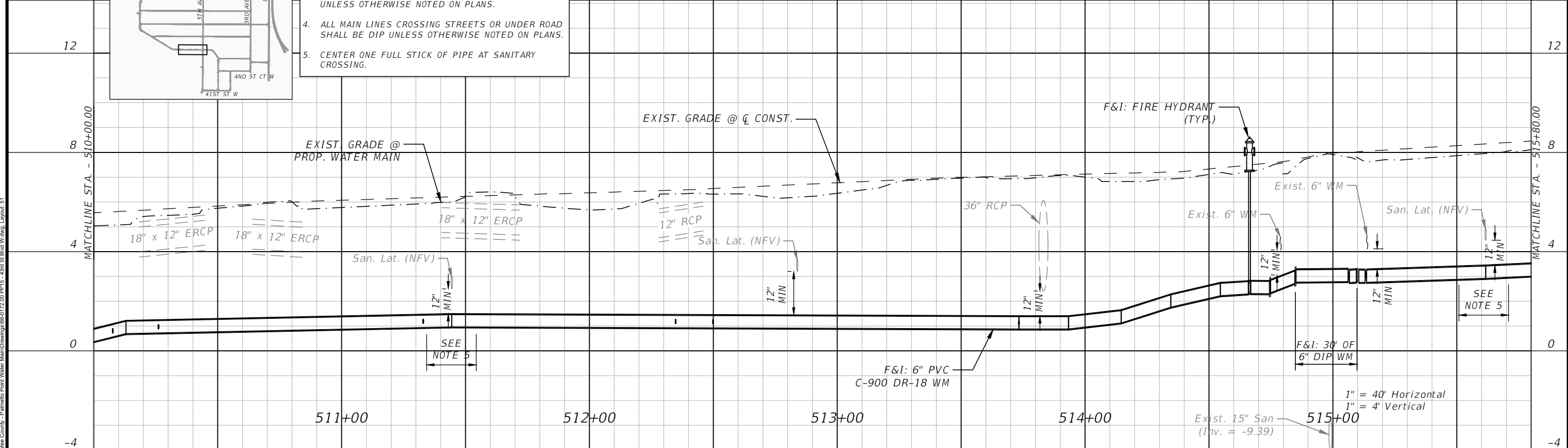
MATCHLINE STA. - 510+00.00

MATCHLINE STA. - 515+80.00



- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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STA. 514+98.42 @ 43RD ST BLVD W =
STA. 38+28.83 5TH AVE W



DES BY	CKM
DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

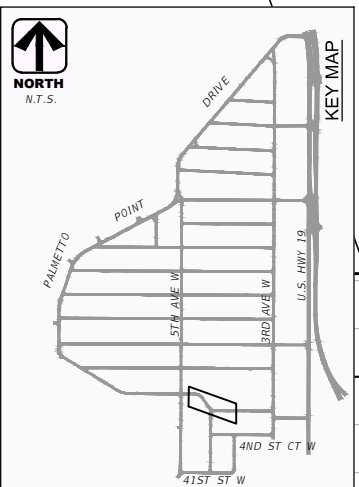
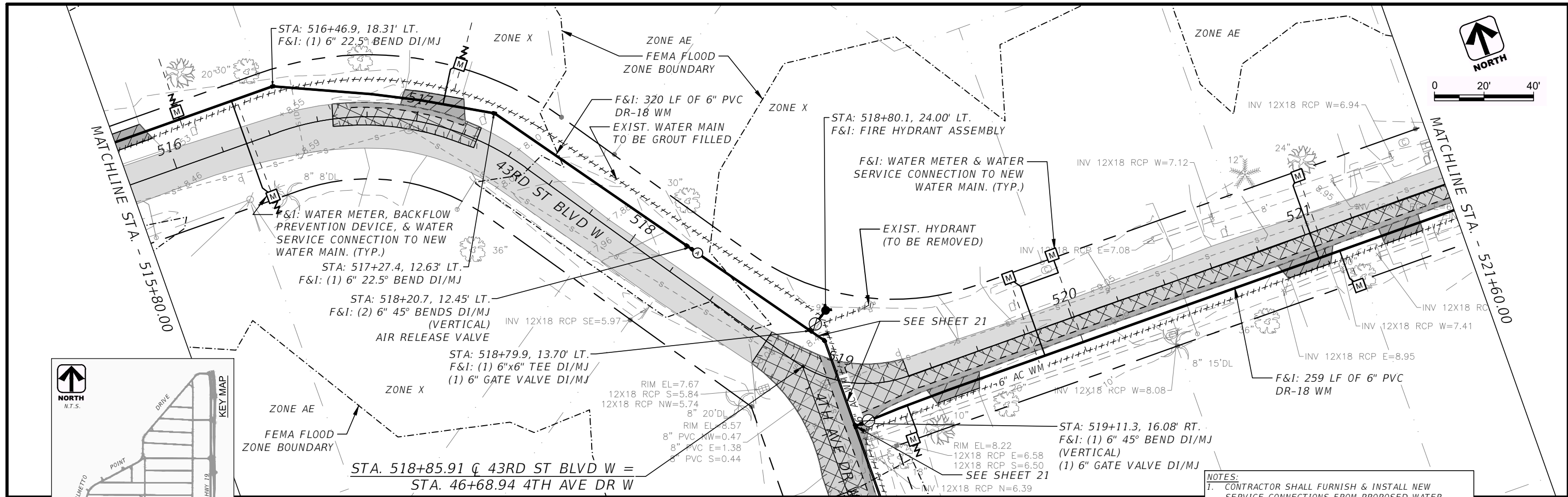


PLAN & PROFILE - 43RD ST. BLVD. W.

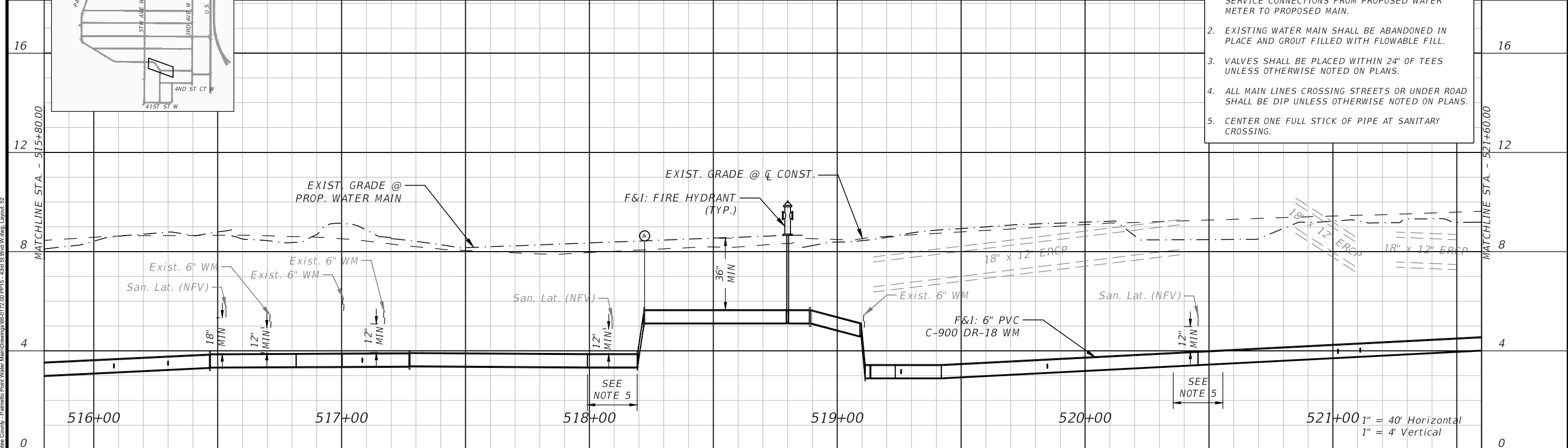
SHEET NO. 51

AA-Standard.dwg
J:\66-0172.00-Manatee County-Palmetto Point Water Main\Drawings\66-0172.00-RP15-43rd St Blvd W.dwg, Layout: 51

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.sib
 1/8/2017 10:00 - Manatee County - Palmetto Point Water Main Drawings 6660172.00 RPT15 - 43rd St Blvd W.dwg, Layout: E2

DES BY	CKM			
DR BY	AD	PROJ NO	66-0172.00	
CHK BY	CKM	DATE	NOV 2019	NO DATE REVISION

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

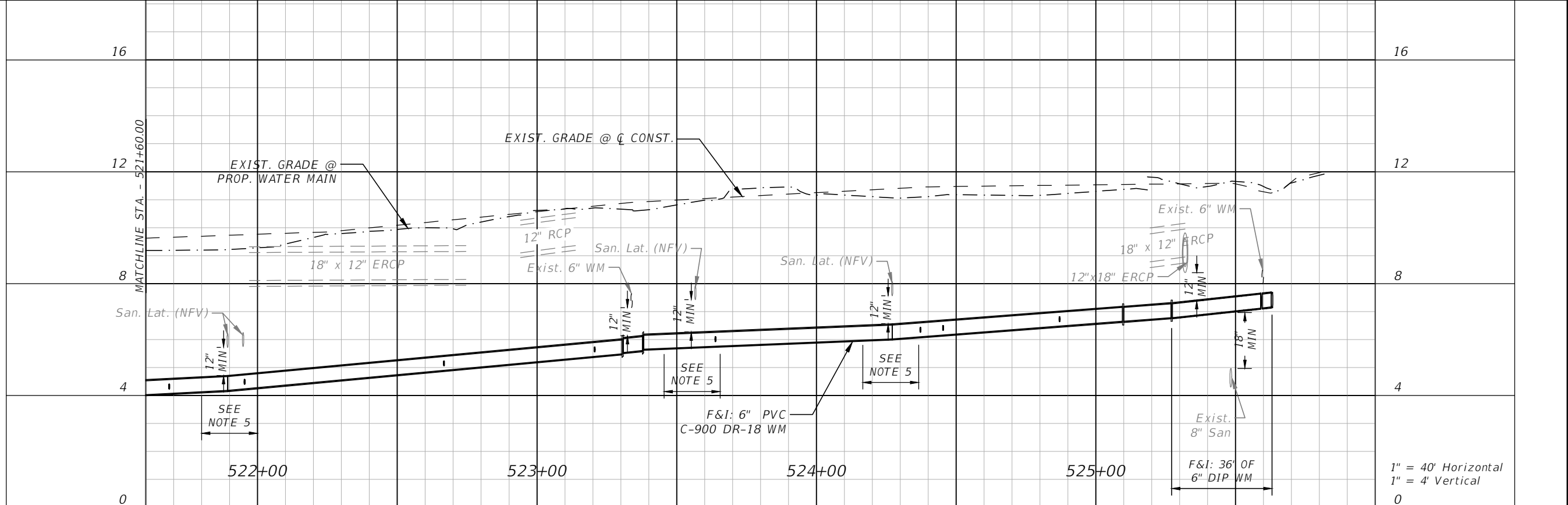
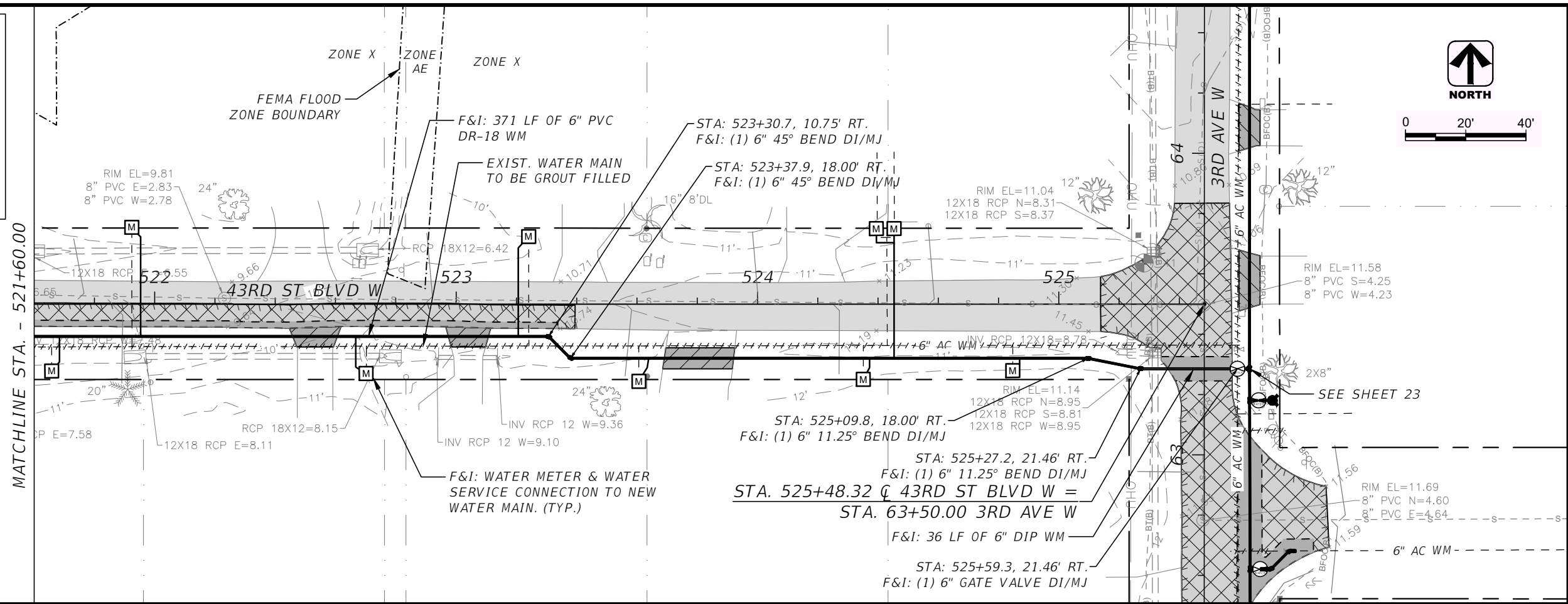
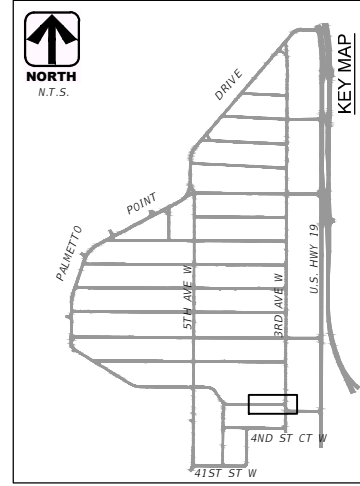


PLAN & PROFILE - 43RD ST. BLVD. W.

SHEET NO.
52

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
- CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AND GROUT FILLED WITH FLOWABLE FILL.
 - VALVES SHALL BE PLACED WITHIN 24" OF TEES UNLESS OTHERWISE NOTED ON PLANS.
 - ALL MAIN LINES CROSSING STREETS OR UNDER ROAD SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS.
 - CENTER ONE FULL STICK OF PIPE AT SANITARY CROSSING.



AA-Standard.dwg
J:\660172.00 - Manatee County - Palmetto Point Water Main\Drawings\660172.00 P15 - 43rd St Blvd W.dwg, Layout: E3

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
REVISION		NO	DATE

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

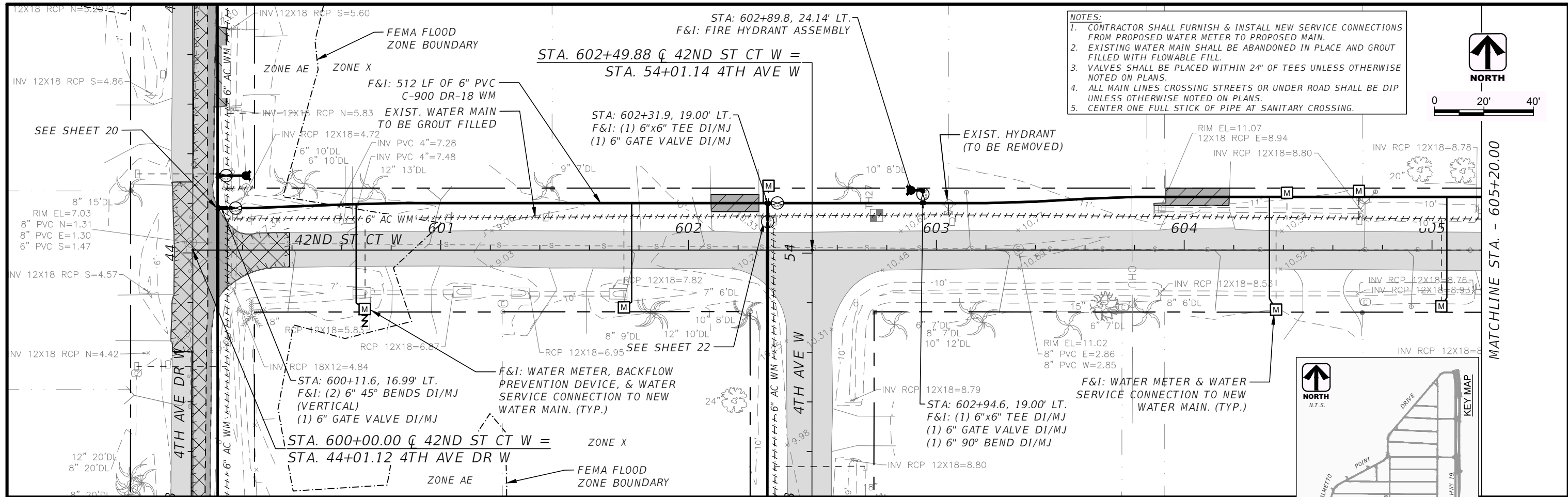
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



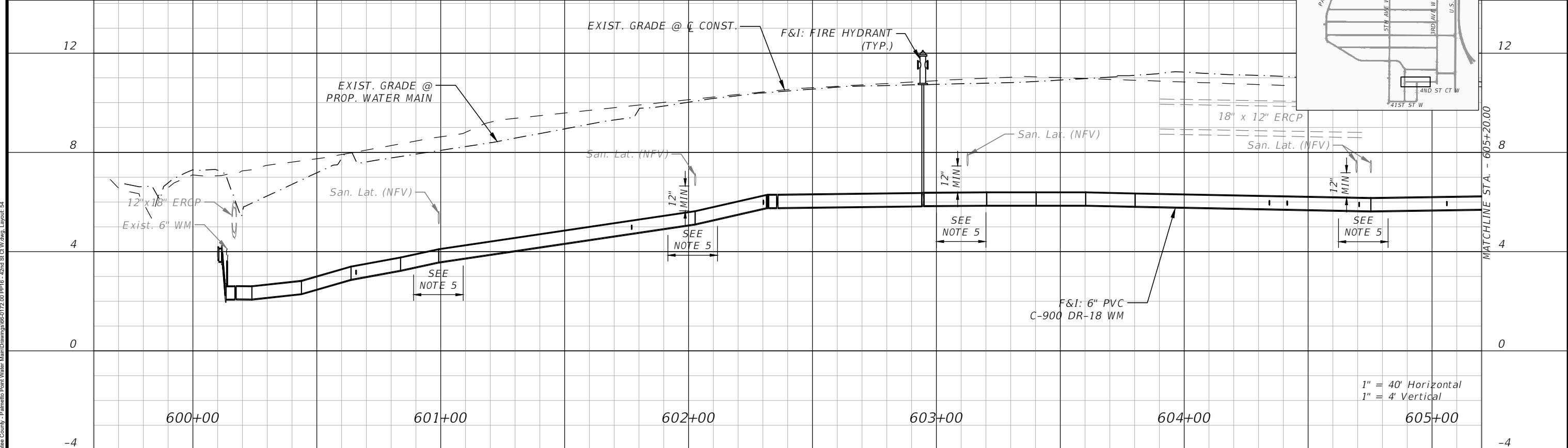
PLAN & PROFILE - 43RD ST. BLVD. W.

SHEET NO. **53**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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DES BY	CKM
DR BY	AD
CHK BY	CKM

PROJ NO	66-0172.00
DATE	NOV 2019
NO	DATE
REVISION	

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS



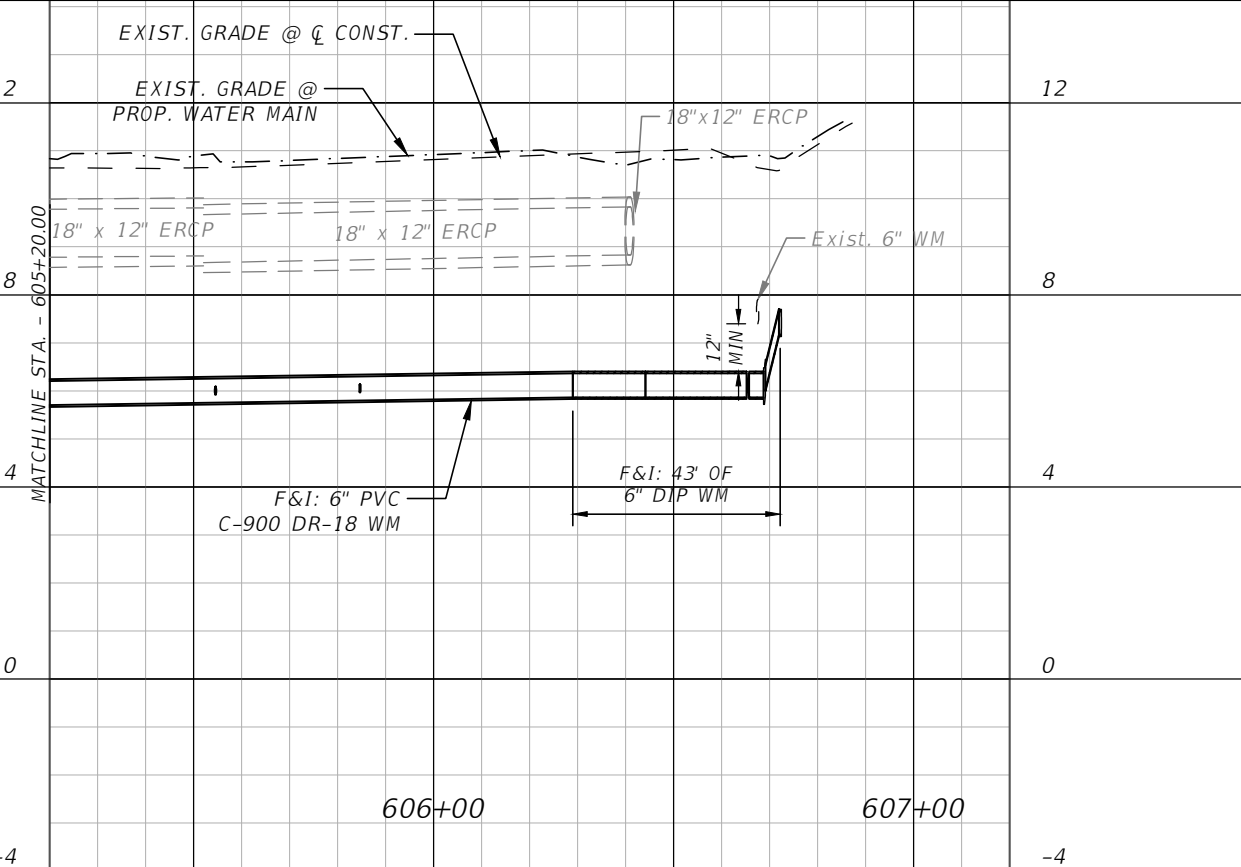
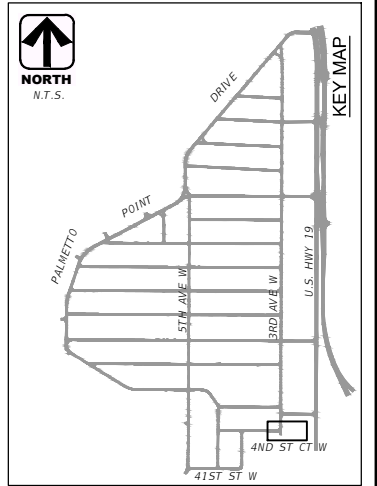
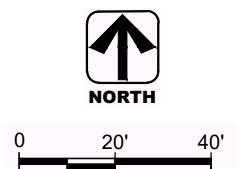
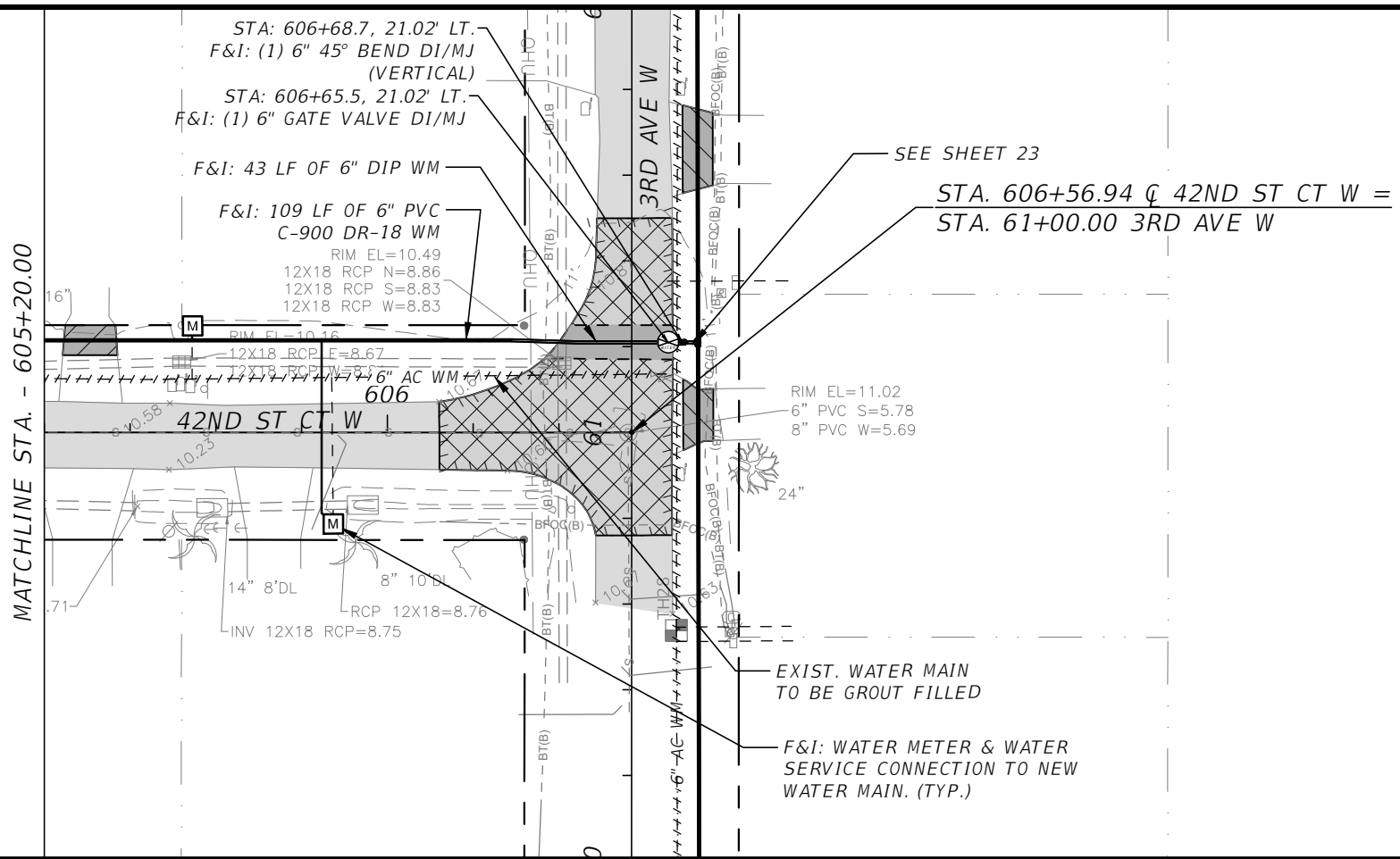
PLAN & PROFILE - 42ND ST. CT. W.

SHEET NO. **54**

AA-Standard.sib
 J:\66-0172.00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172.00 PP16 - 42nd St Ct W.dwg, Layout: 54

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- NOTES:**
1. CONTRACTOR SHALL FURNISH & INSTALL NEW SERVICE CONNECTIONS FROM PROPOSED WATER METER TO PROPOSED MAIN.
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1" = 40' Horizontal
1" = 4' Vertical

AA-Standard.dwg
J:\66-0172-00-Manatee County-Palmetto Point Water Main\Drawings\66-0172-00-PP16-42nd St Ct W.dwg, Layout: 55

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

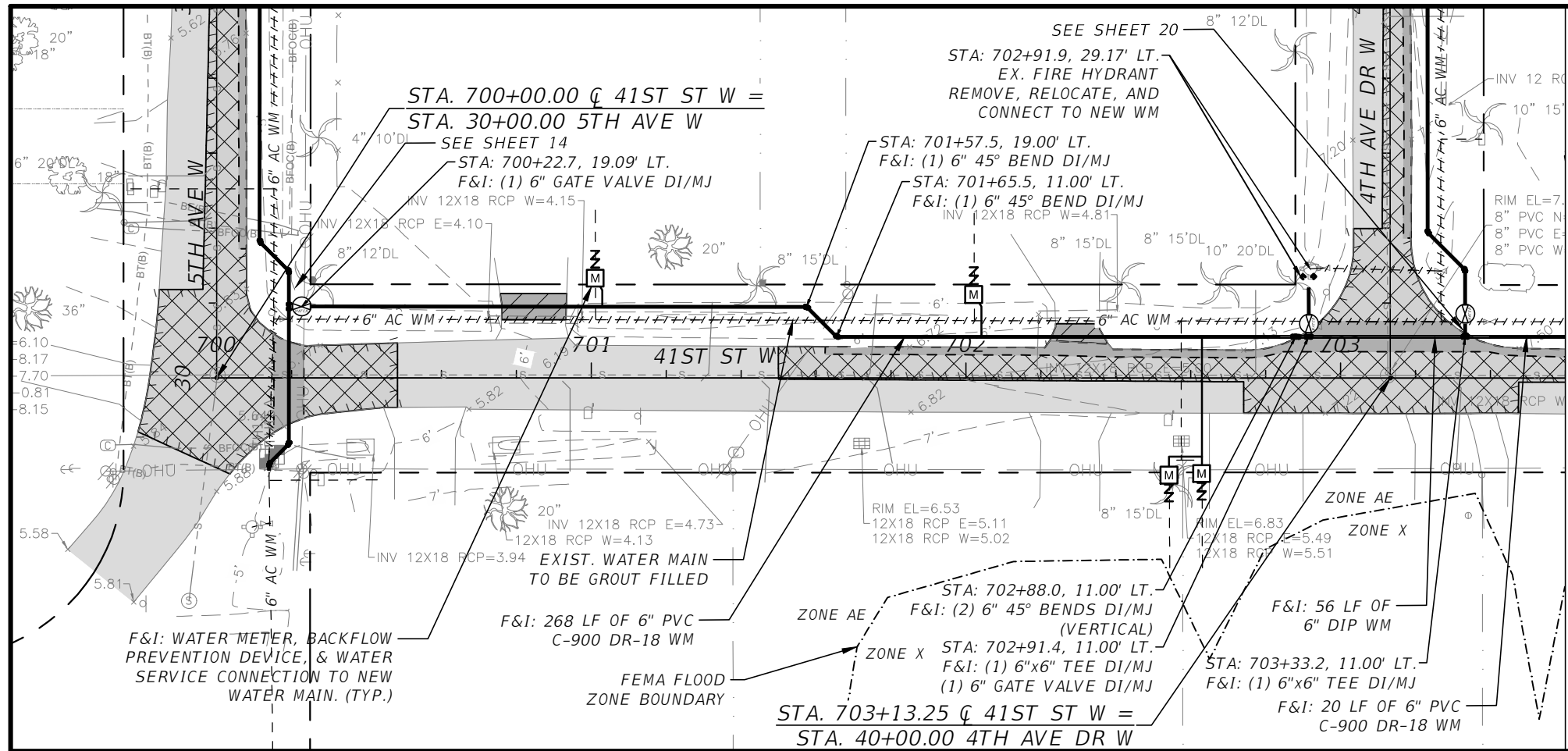
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



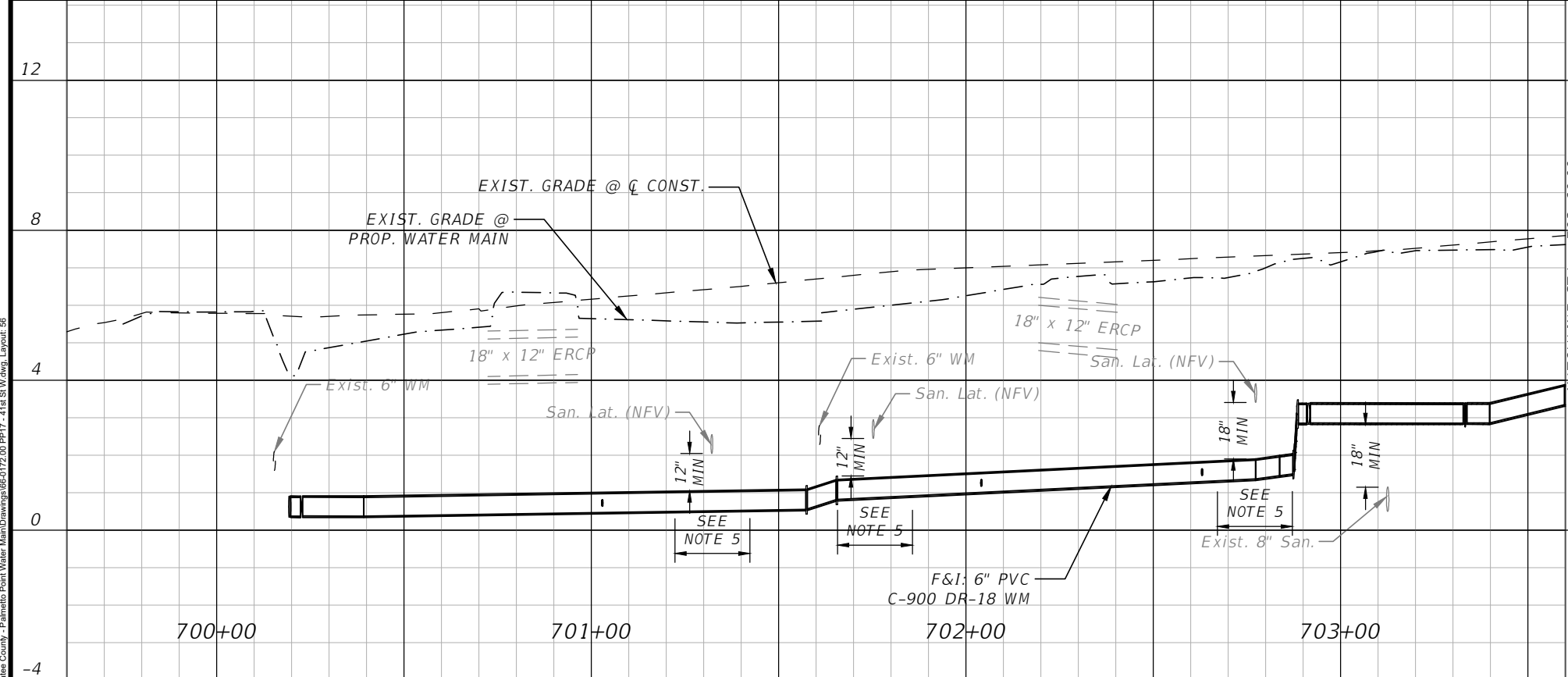
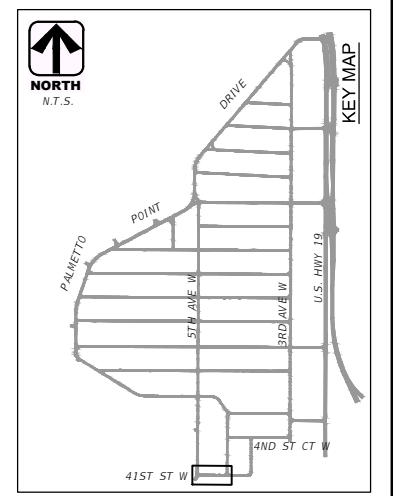
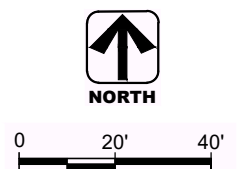
PLAN & PROFILE - 42ND ST. CT. W.

SHEET NO.
55

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:**
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1" = 40' Horizontal
1" = 4' Vertical

AA-Standard.sib
J:\66-0172-00 - Manatee County - Palmetto Point Water Main Drawings\66-0172-00 RP17 - 41st St W.dwg, Layout: 56

DES BY	CKM		
DR BY	AD	PROJ NO	66-0172.00
CHK BY	CKM	DATE	NOV 2019
		NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

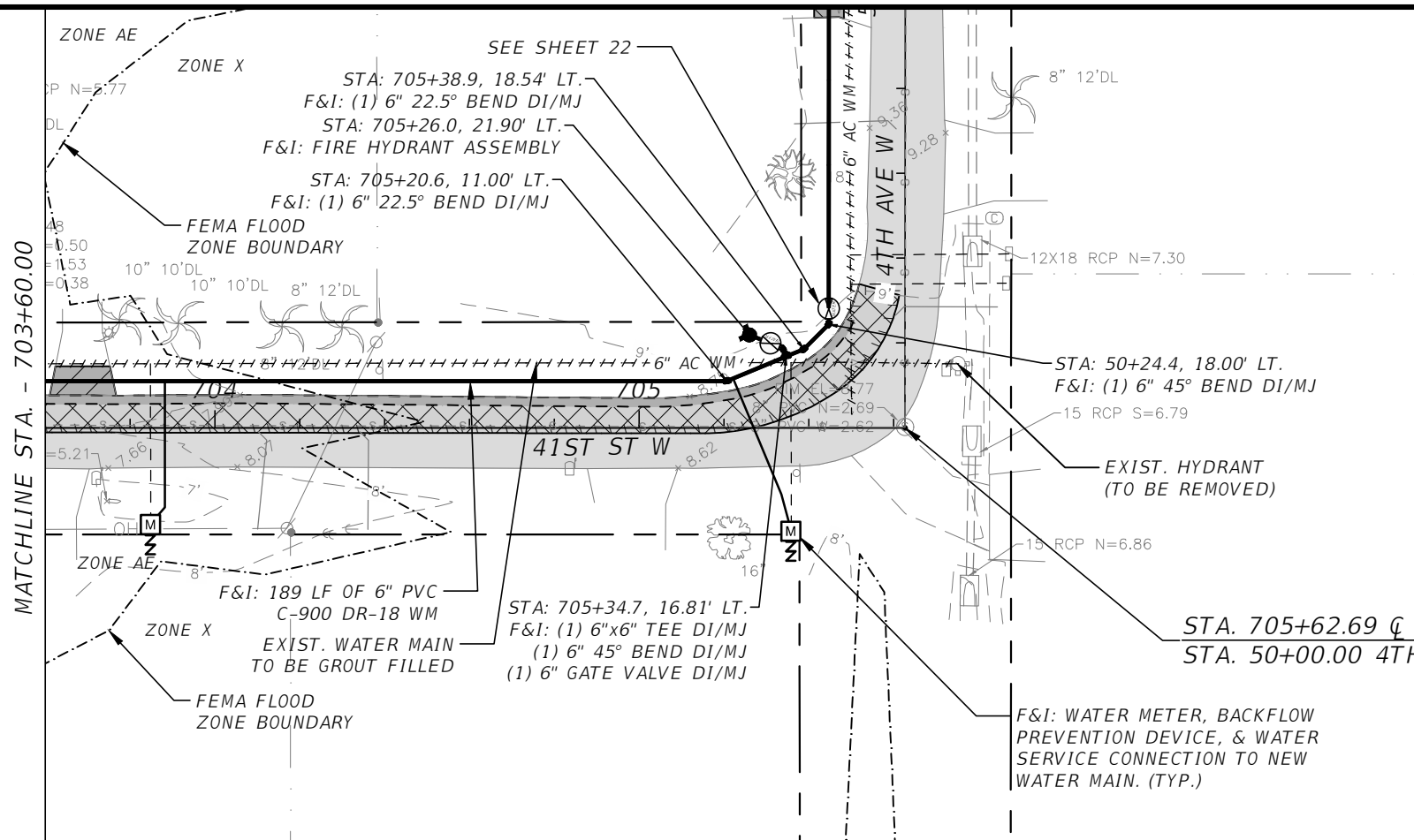
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



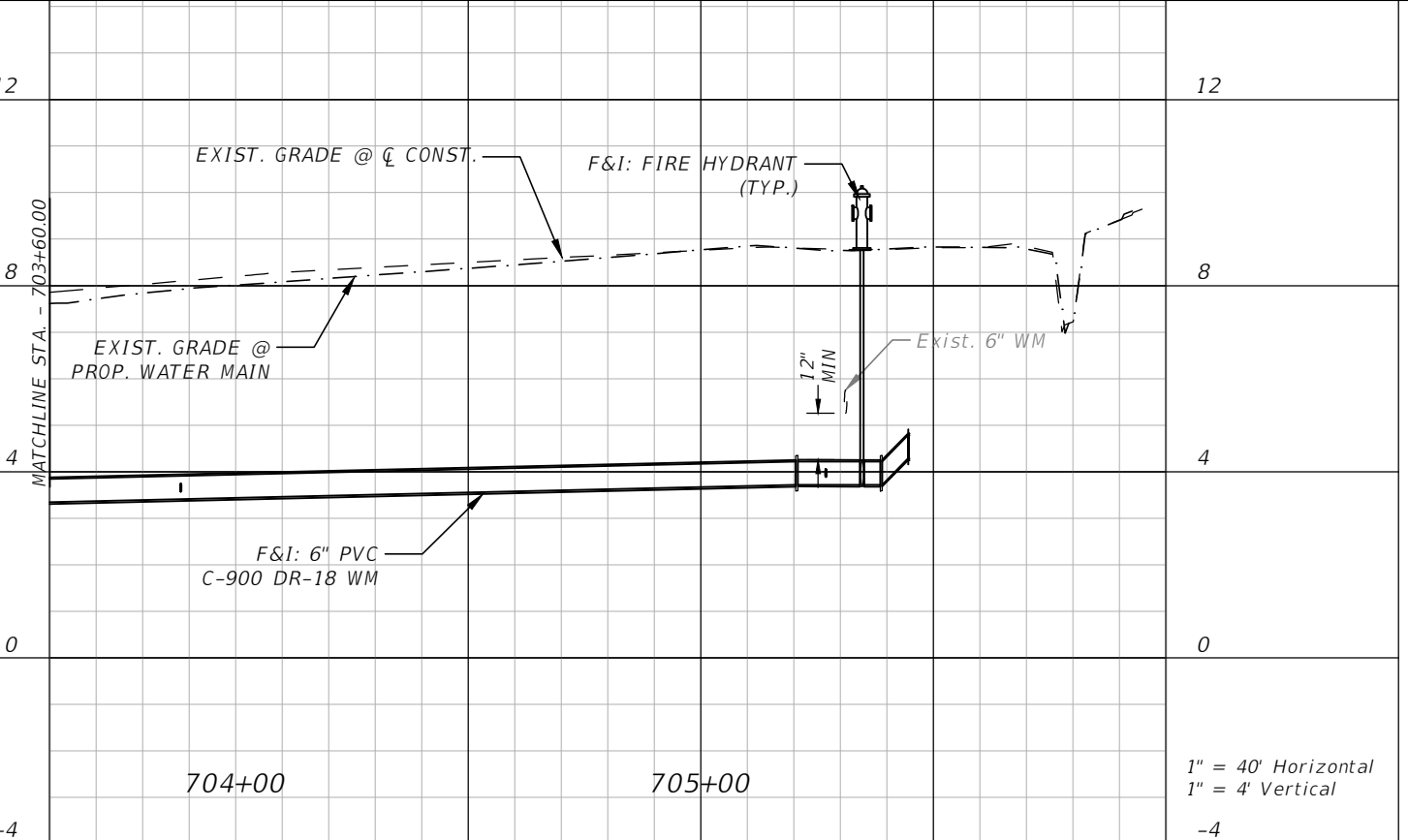
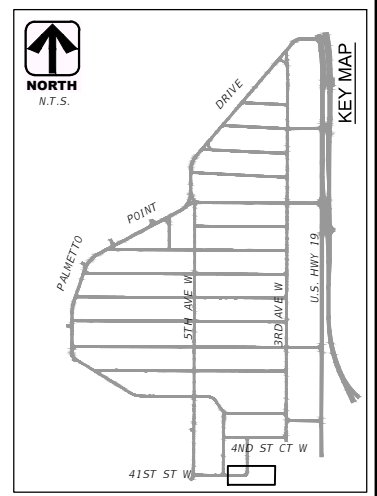
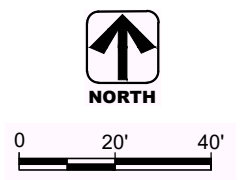
PLAN & PROFILE - 41ST ST. W.

SHEET NO.
56

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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1" = 40' Horizontal
1" = 4' Vertical

AA-Standard.dwg
J:\66-0172-00-Manatee County-Palmetto Point Water Main\Drawings\66-0172-00-PP17-41st St W.dwg, Layout: 57

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**

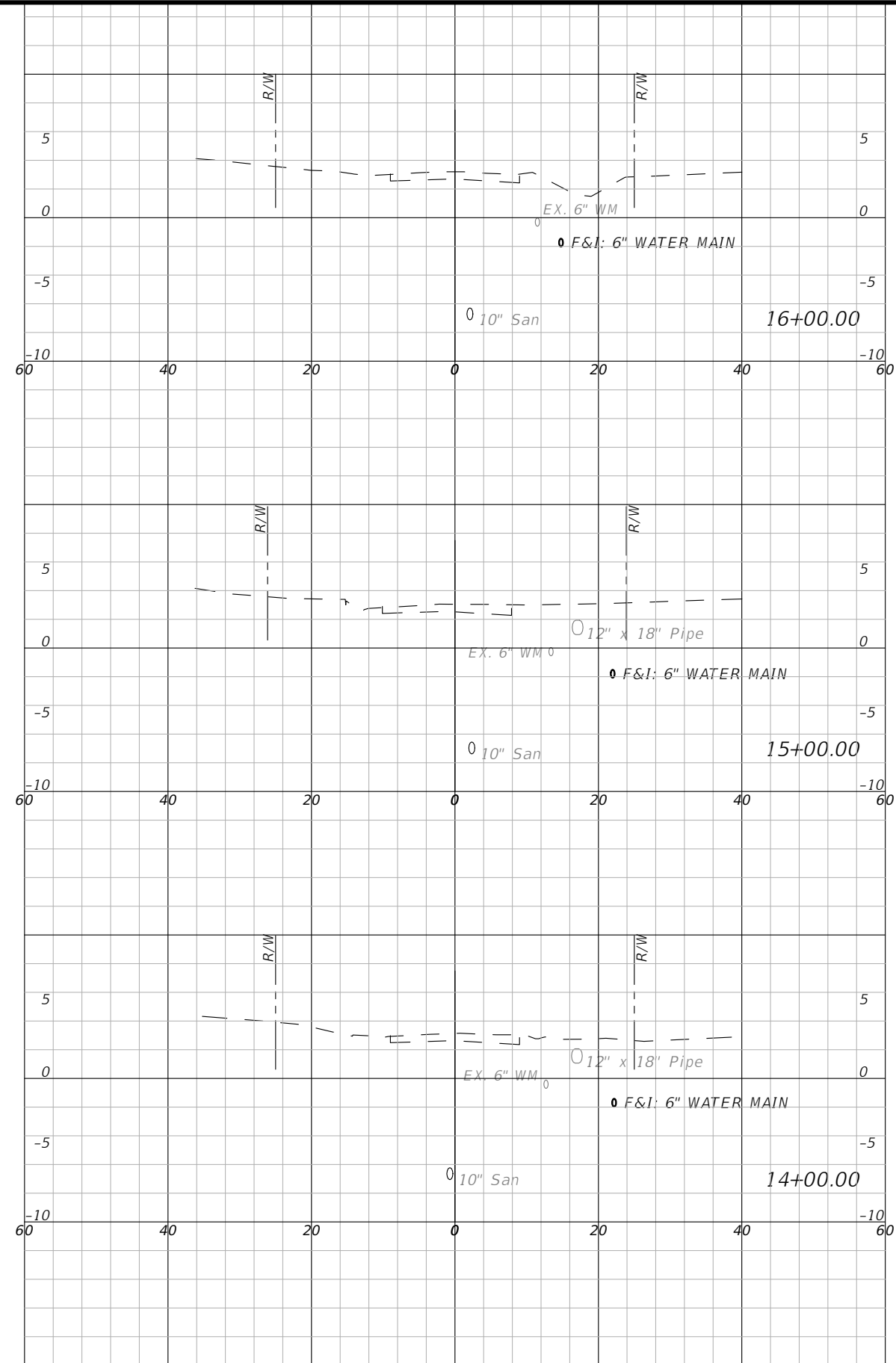
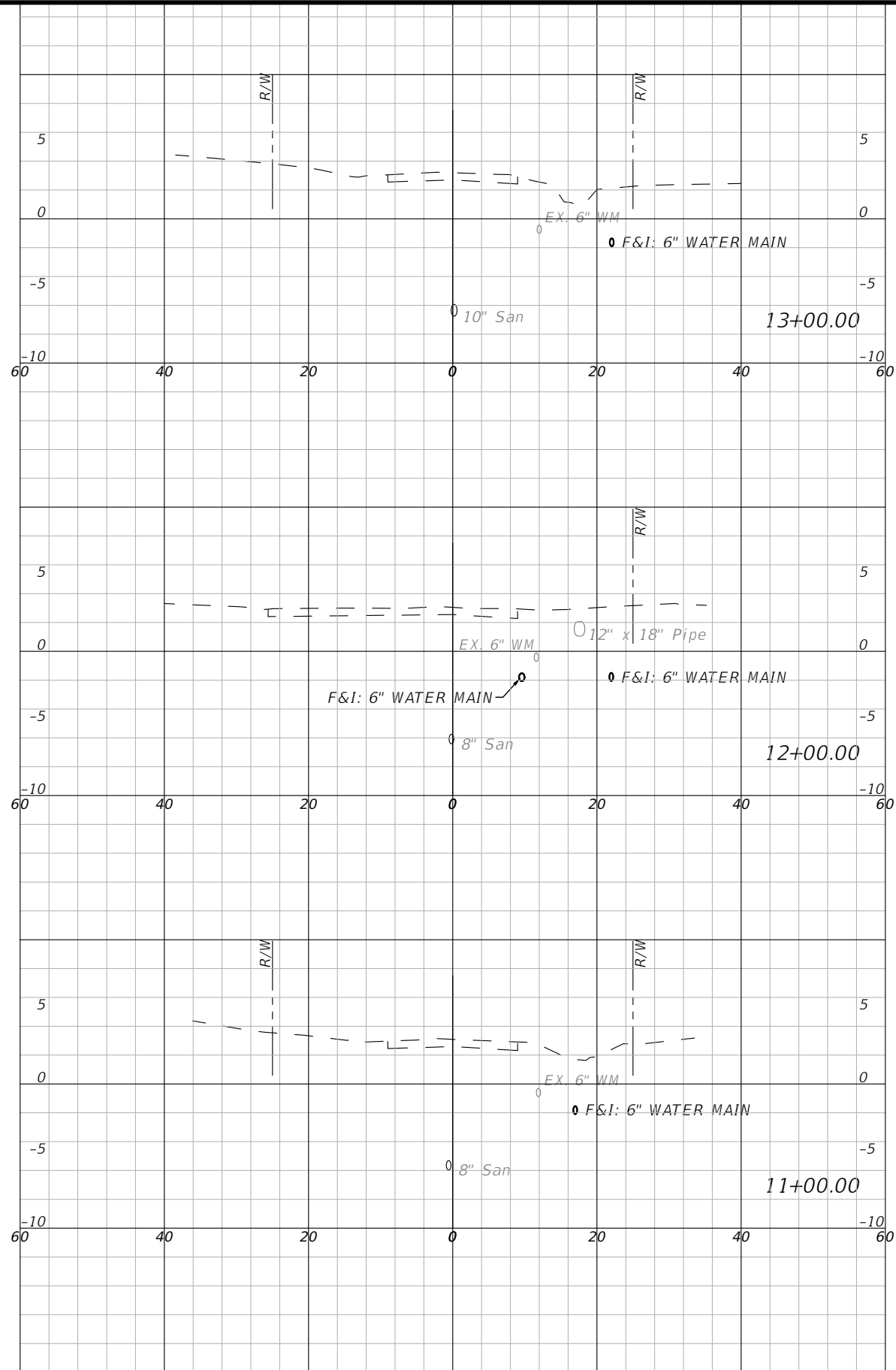


PLAN & PROFILE - 41ST ST. W.

SHEET NO. 57

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1/18/2019
 J:\66-0172-00 - Manatee County - Palmetto Point Water Main Drawings\66-0172-00 Cross Sections.dwg, Layout: 58



1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

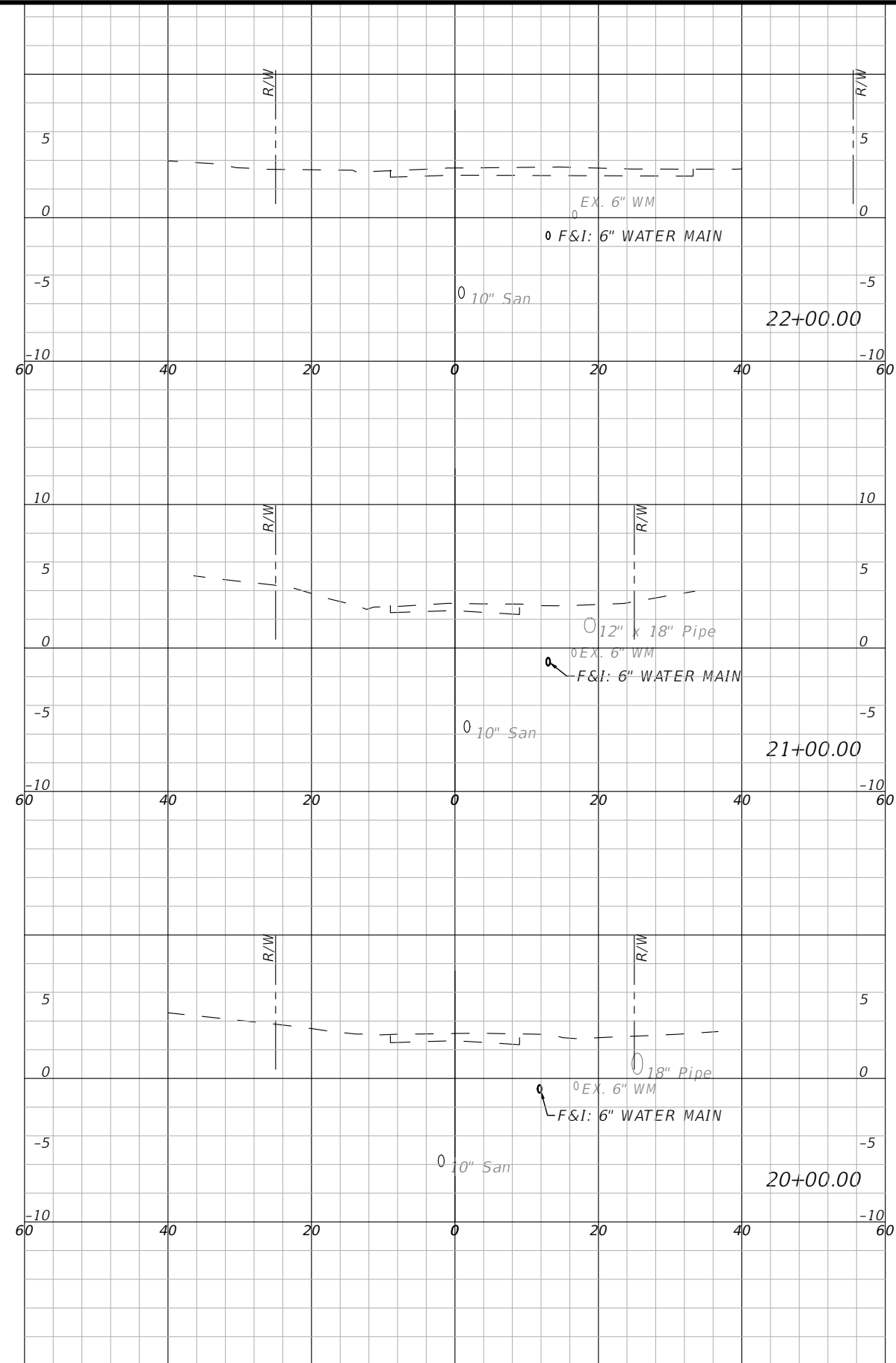
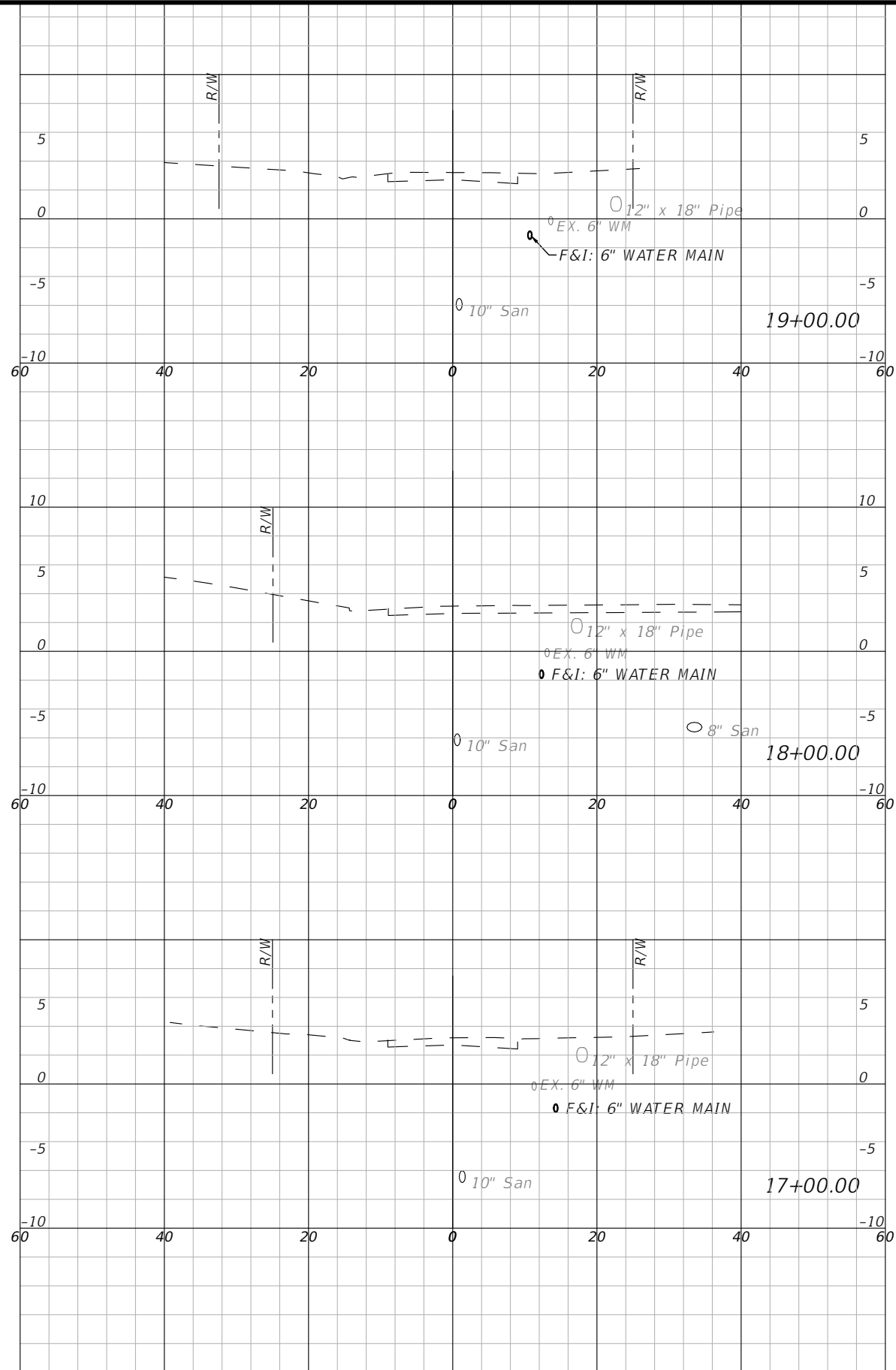


CROSS SECTIONS - PALMETTO POINT DR.

SHEET NO.
58

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1/18/2019 11:06:07 AM J:\66-0172-00 - Manatee County - Palmetto Point Water Main Drawings\66-0172-00 Cross Sections.dwg, Layout: 59



1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

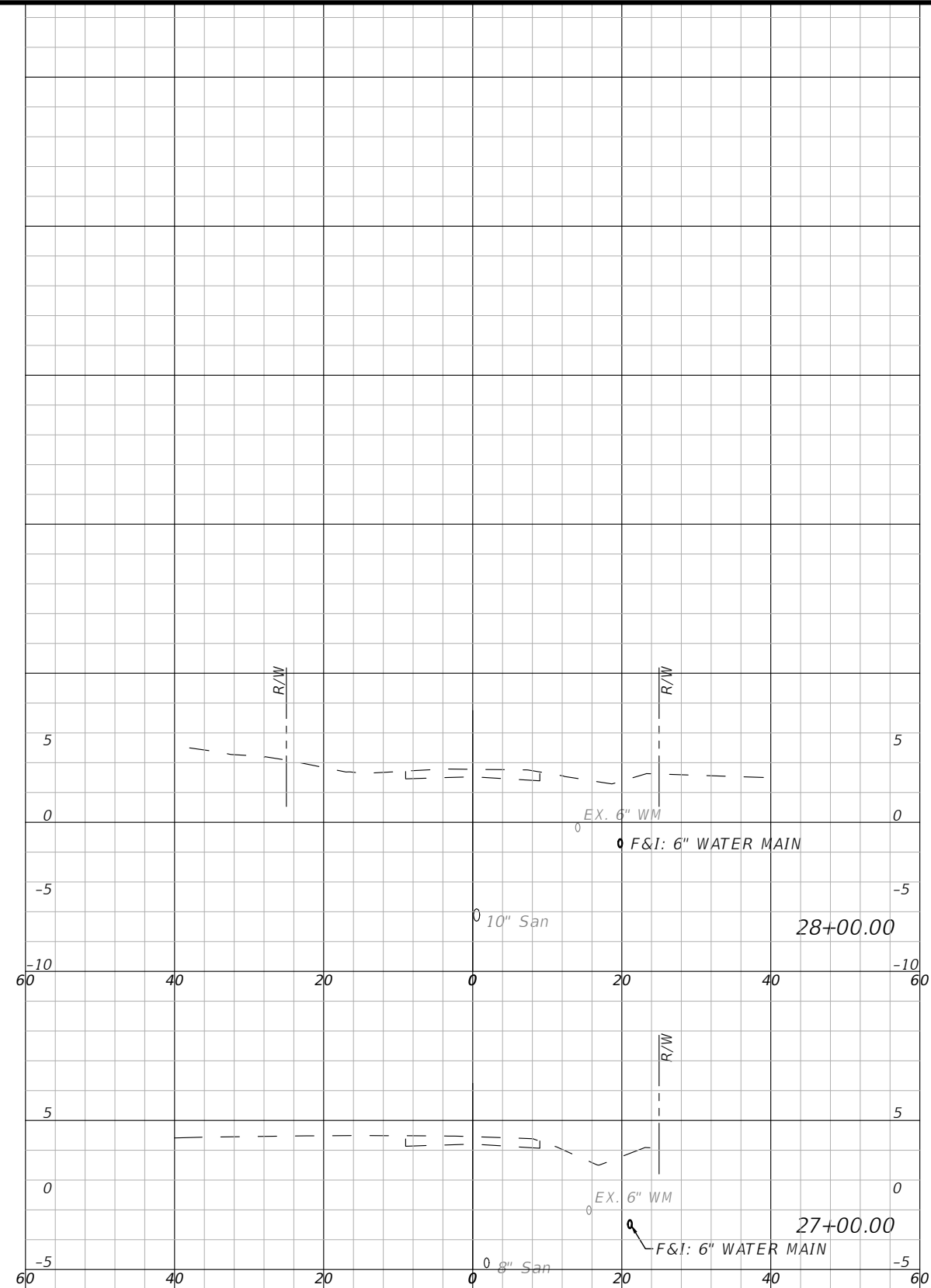
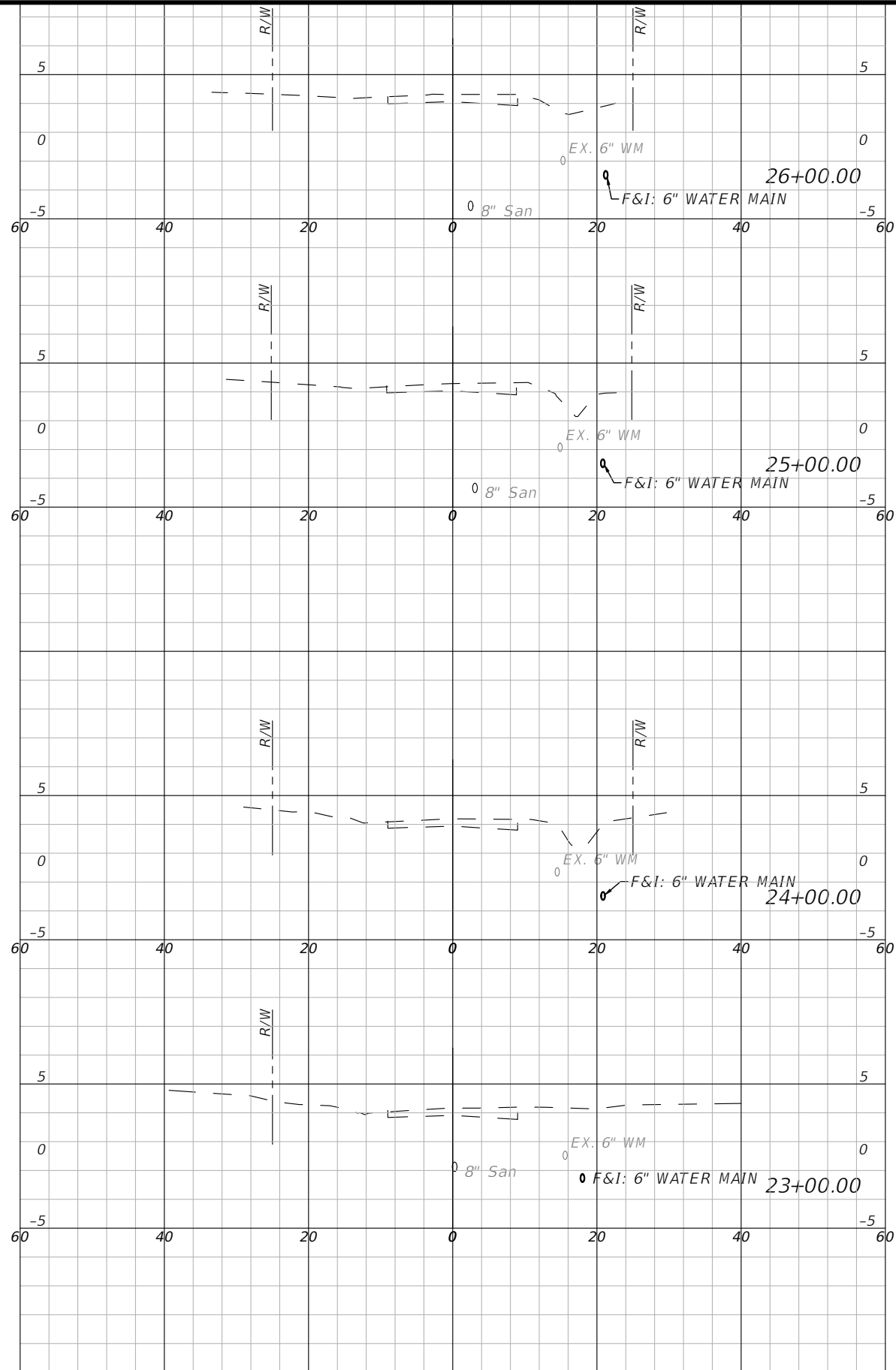


CROSS SECTIONS - PALMETTO POINT DR.

SHEET NO. **59**

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1/18/2019
 J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 Cross Sections.dwg, Layout: 60



1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

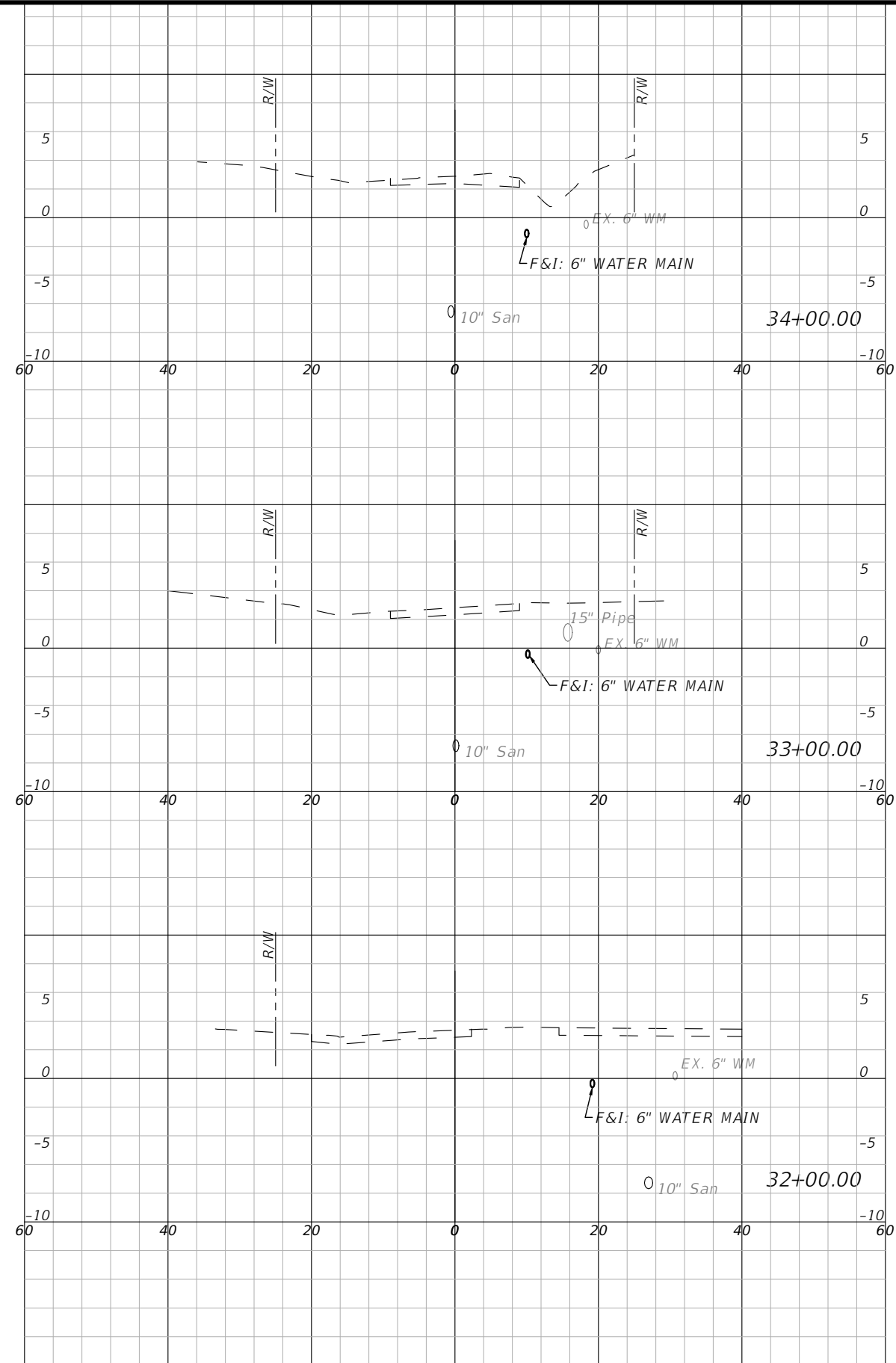
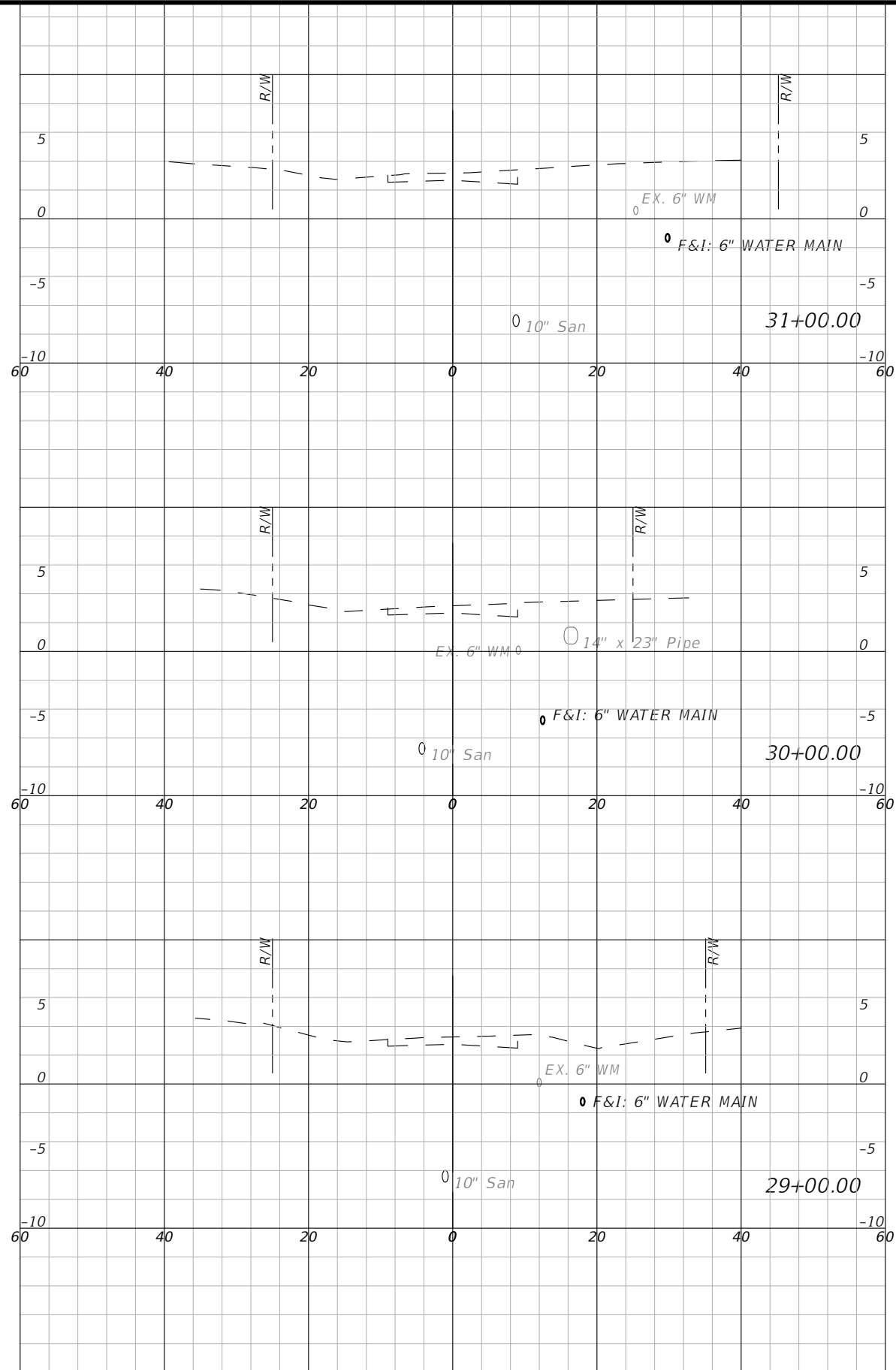


CROSS SECTIONS - PALMETTO POINT DR.

SHEET NO.
60

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1/18/2019
 J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 Cross Sections.dwg, Layout: 61



1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

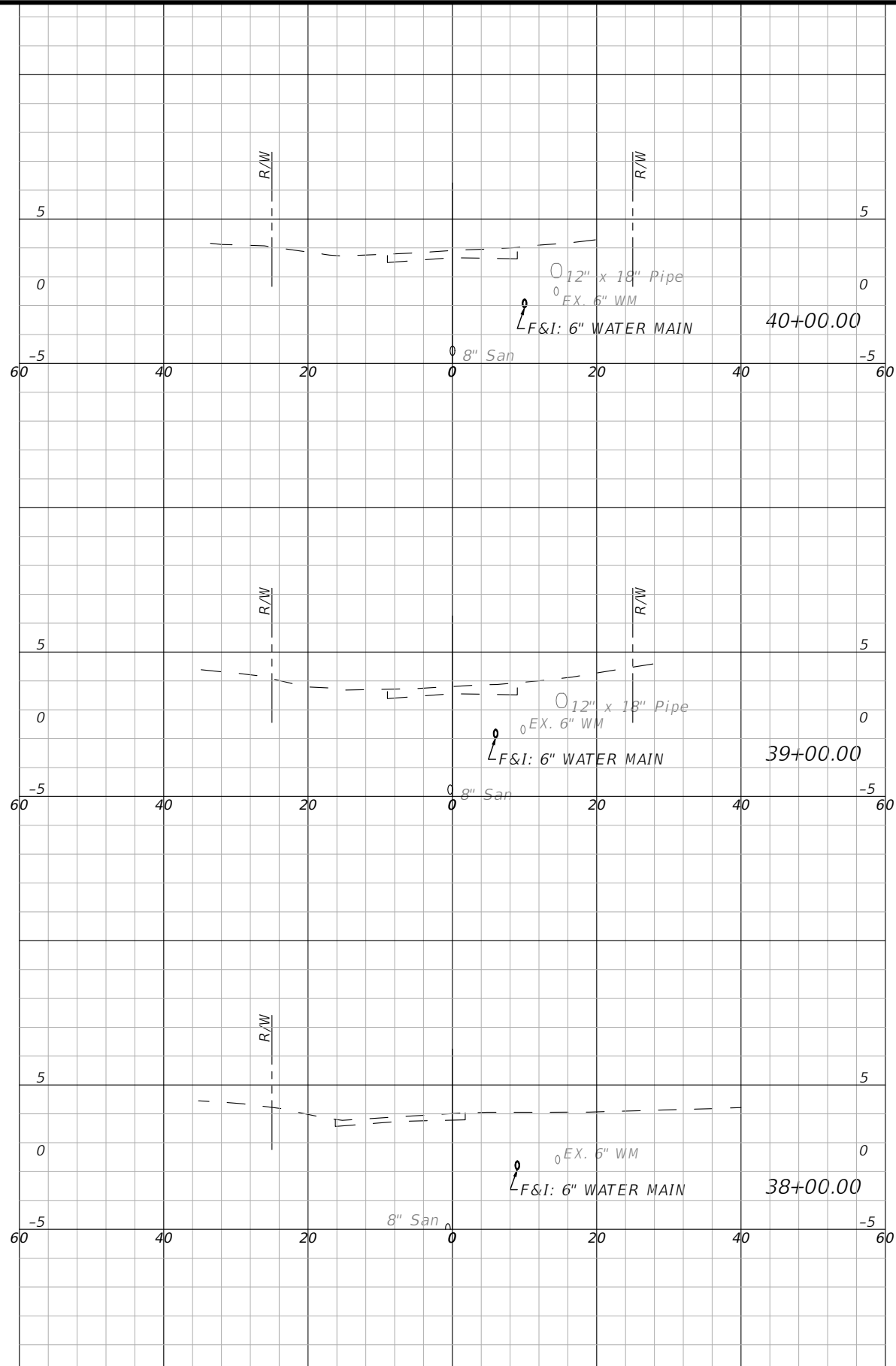
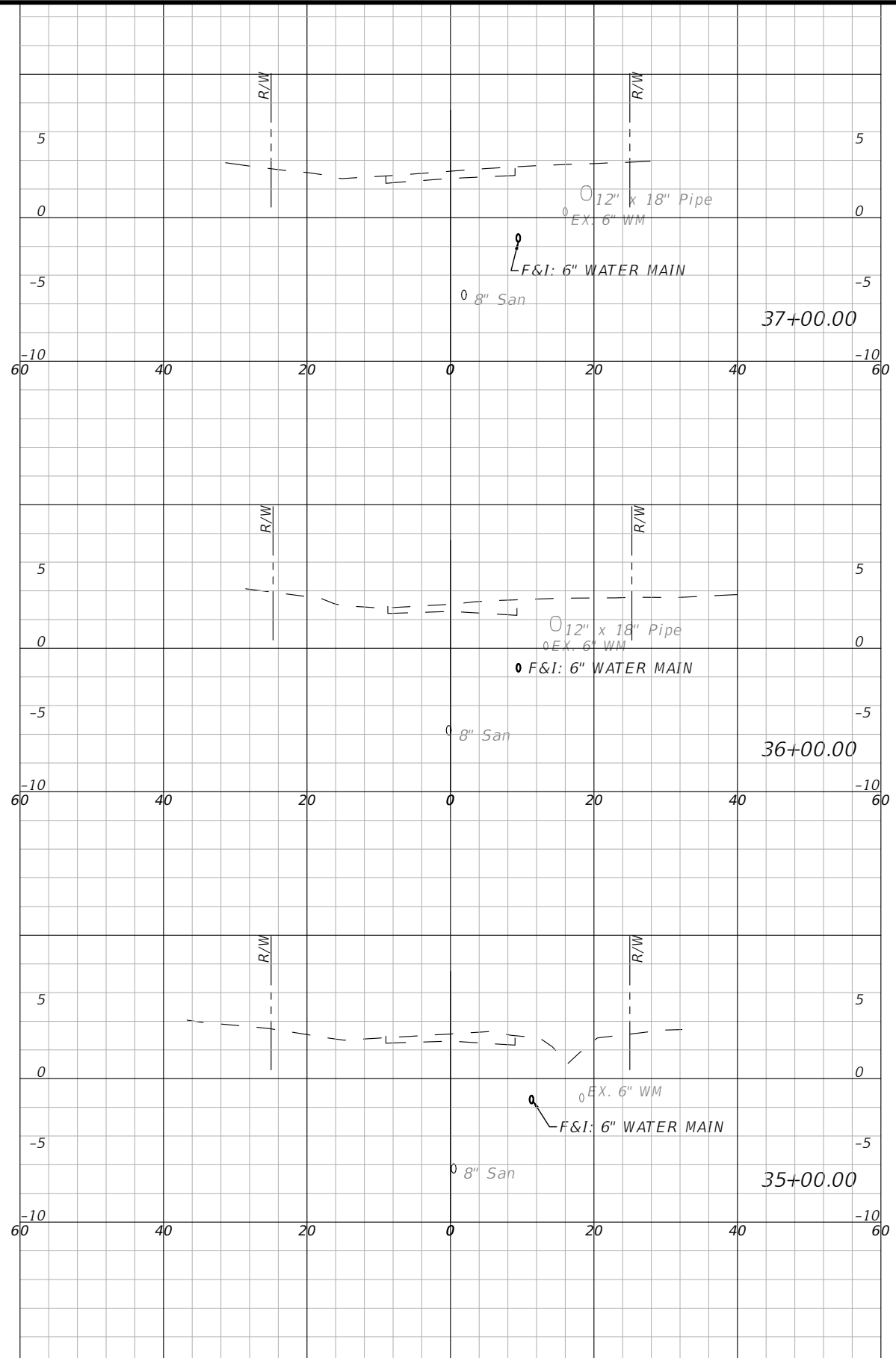


CROSS SECTIONS - PALMETTO POINT DR.

SHEET NO.
61

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1/18/2019
 J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 Cross Sections.dwg, Layout: 02



1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

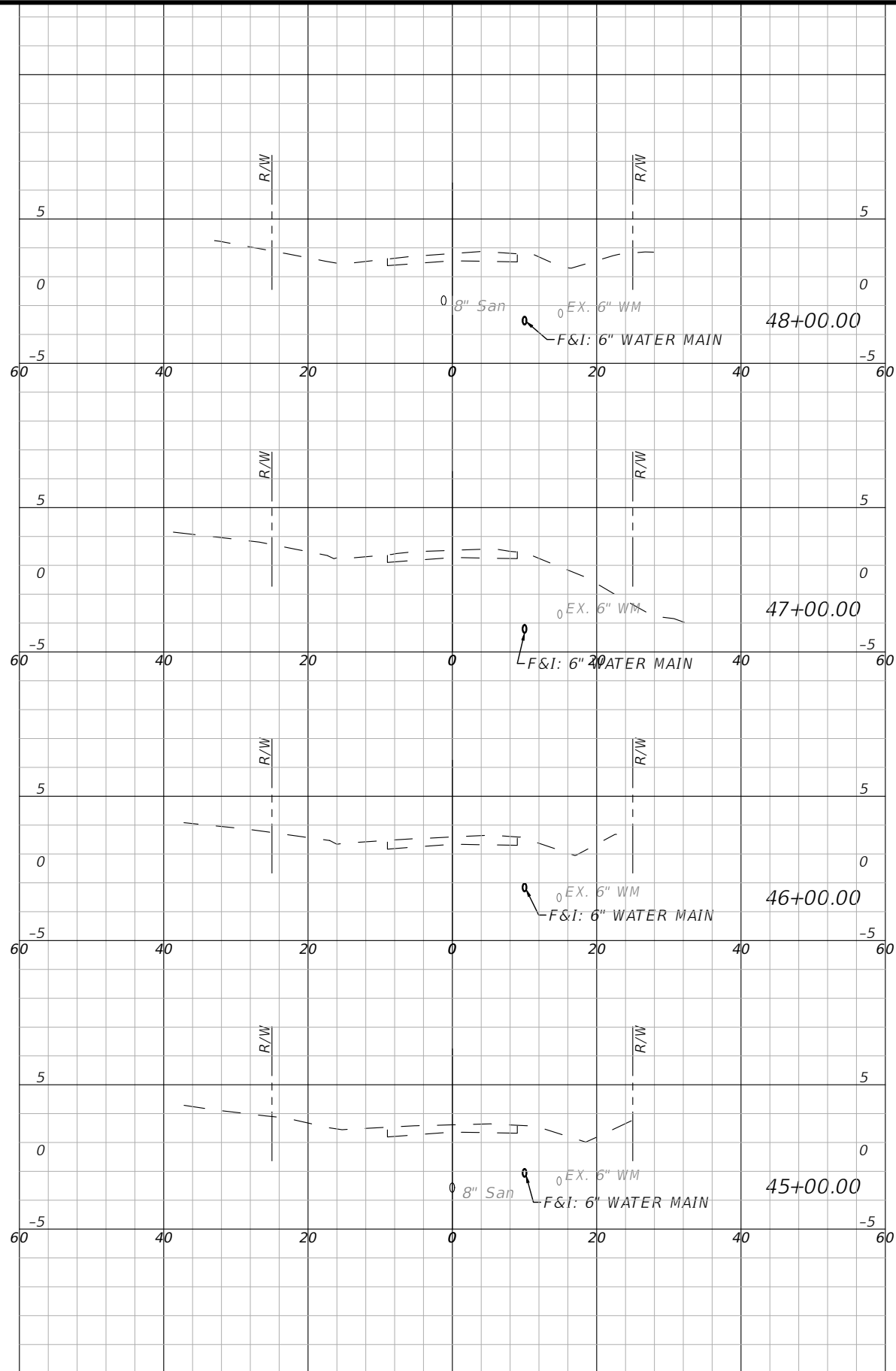
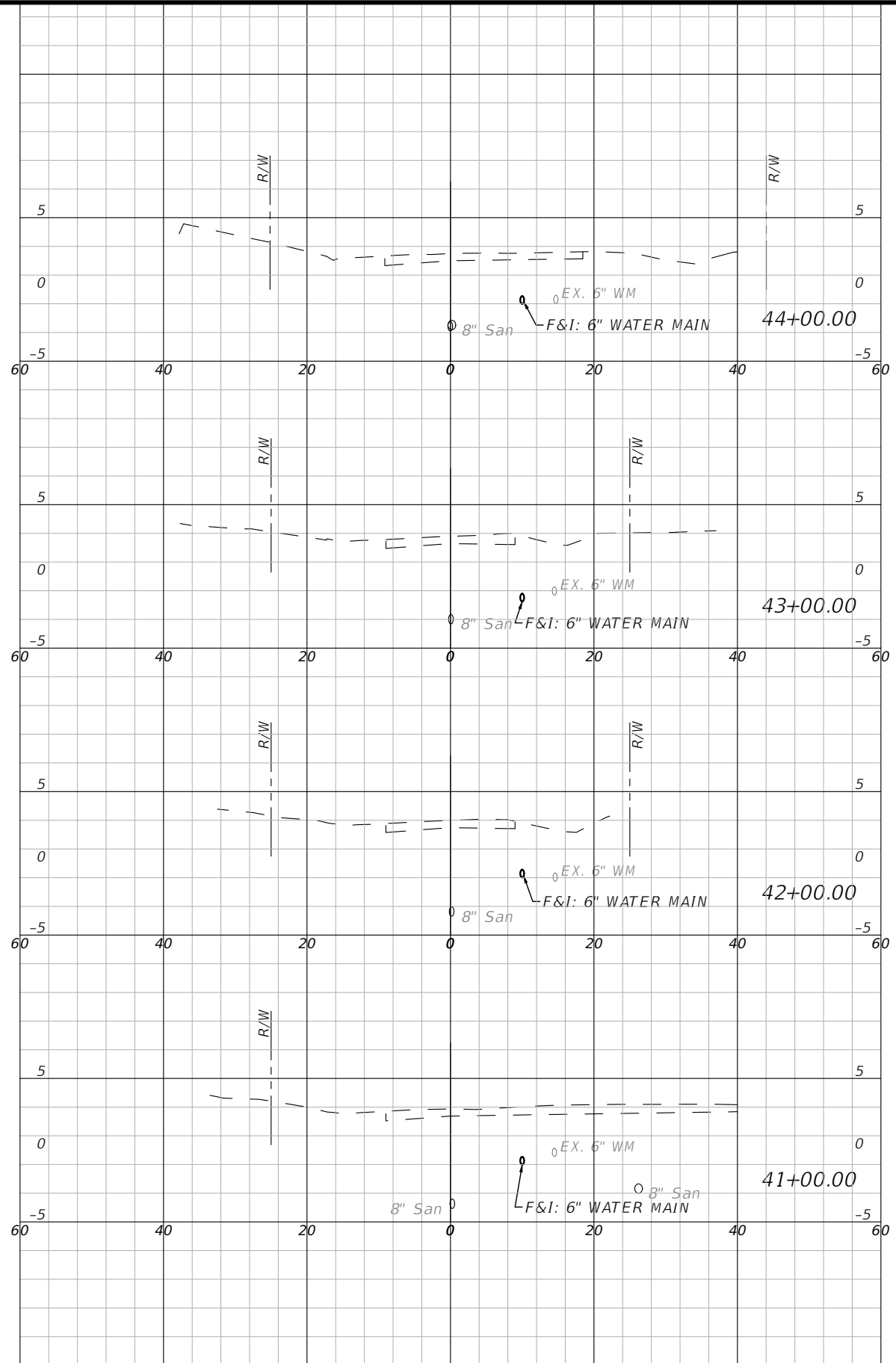


CROSS SECTIONS - PALMETTO POINT DR.

SHEET NO.
62

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1/18/2019
 J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 Cross Sections.dwg, Layout: 63



1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

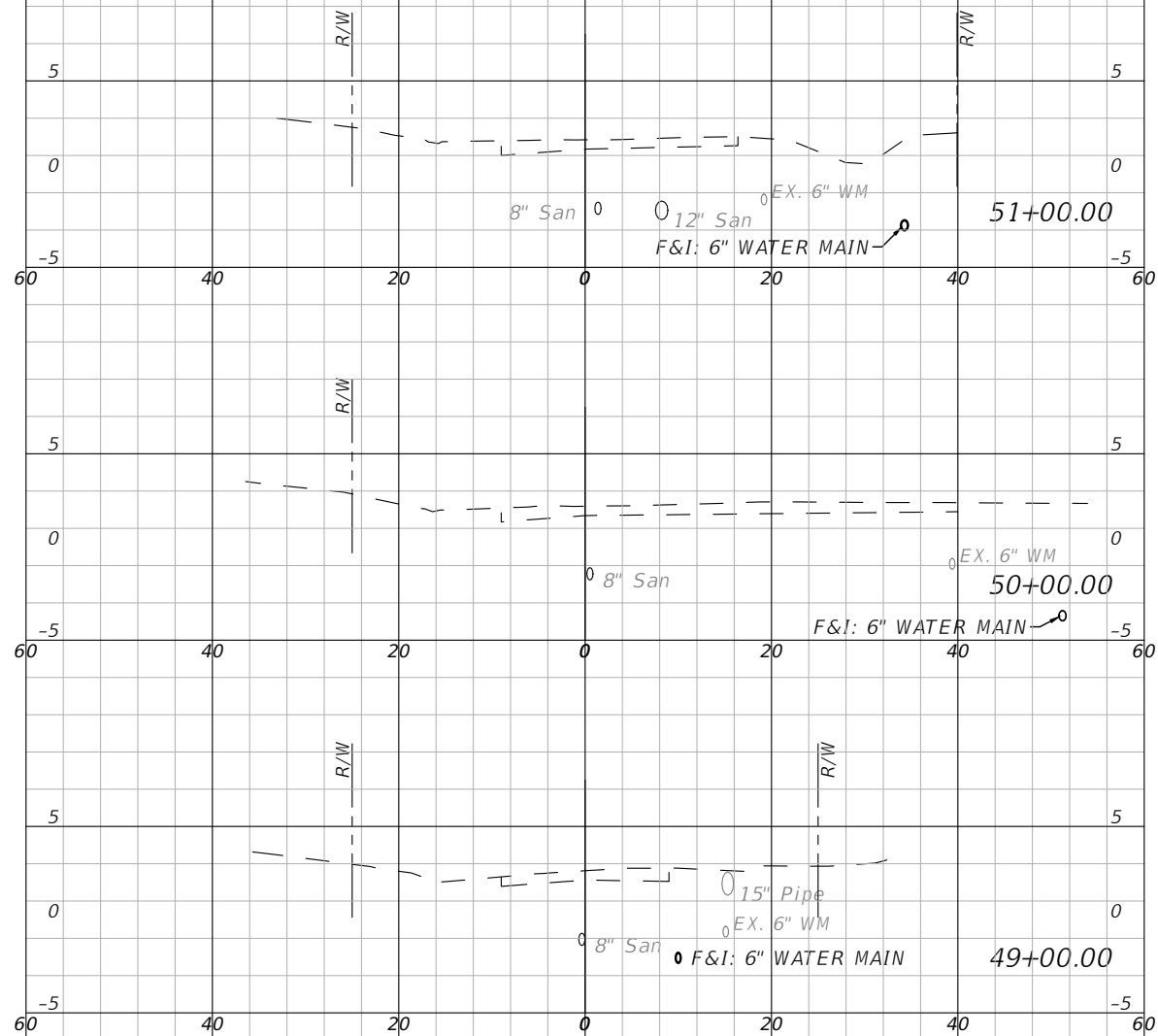


CROSS SECTIONS - PALMETTO POINT DR.

SHEET NO. **63**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1/18/2019
J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 Cross Sections.dwg, Layout: 64



1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00		
DR BY	AD	DATE	NOV 2019	NO	DATE
CHK BY	CKM	REVISION			

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

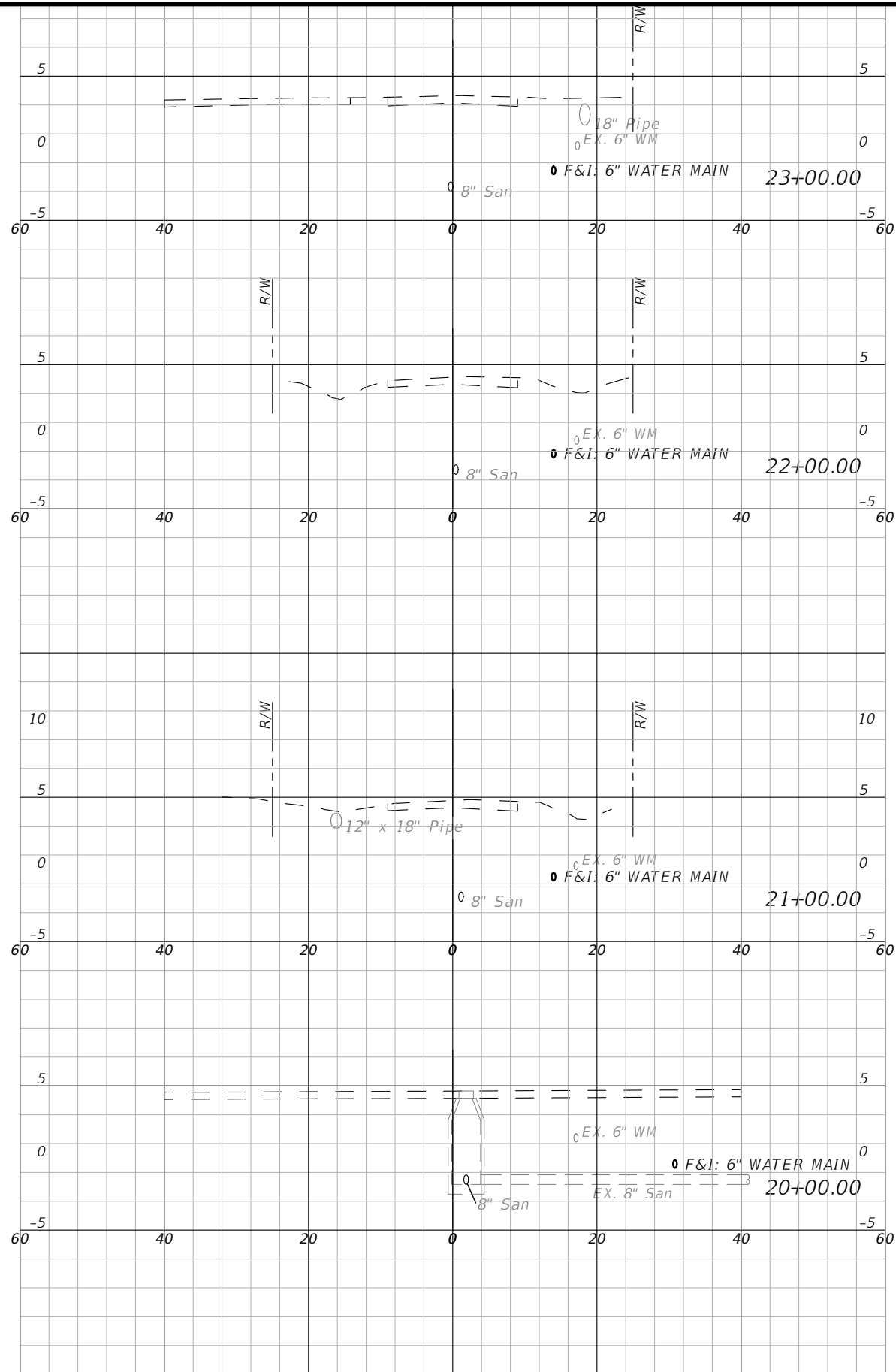


CROSS SECTIONS - PALMETTO POINT DR.

SHEET NO.
64

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1/18/2019
J:\66-0172-00 - Manatee County - Palmetto Point Water Main Drawings\66-0172-00 Cross Sections.dwg, Layout: 65



1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
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TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

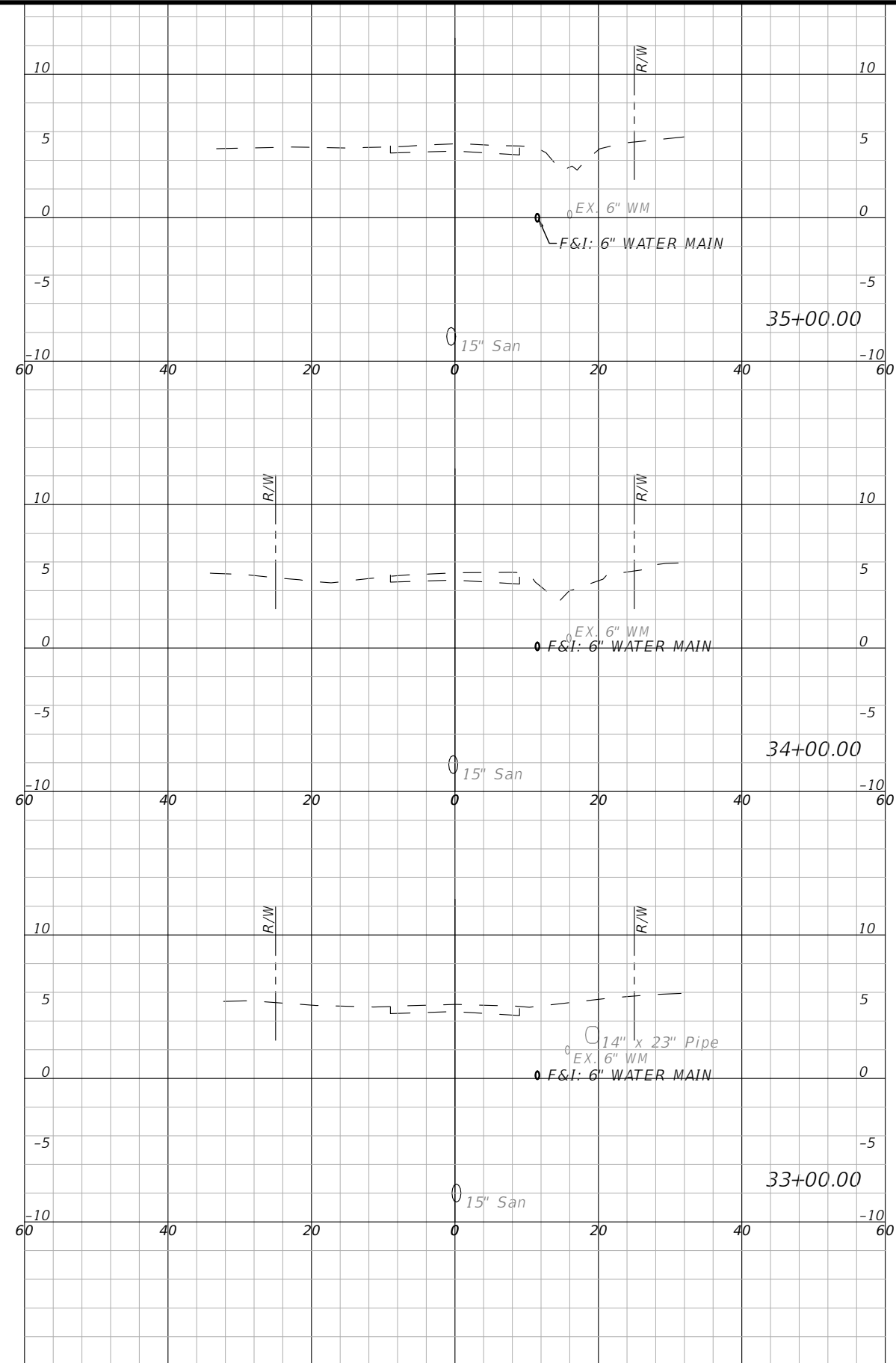
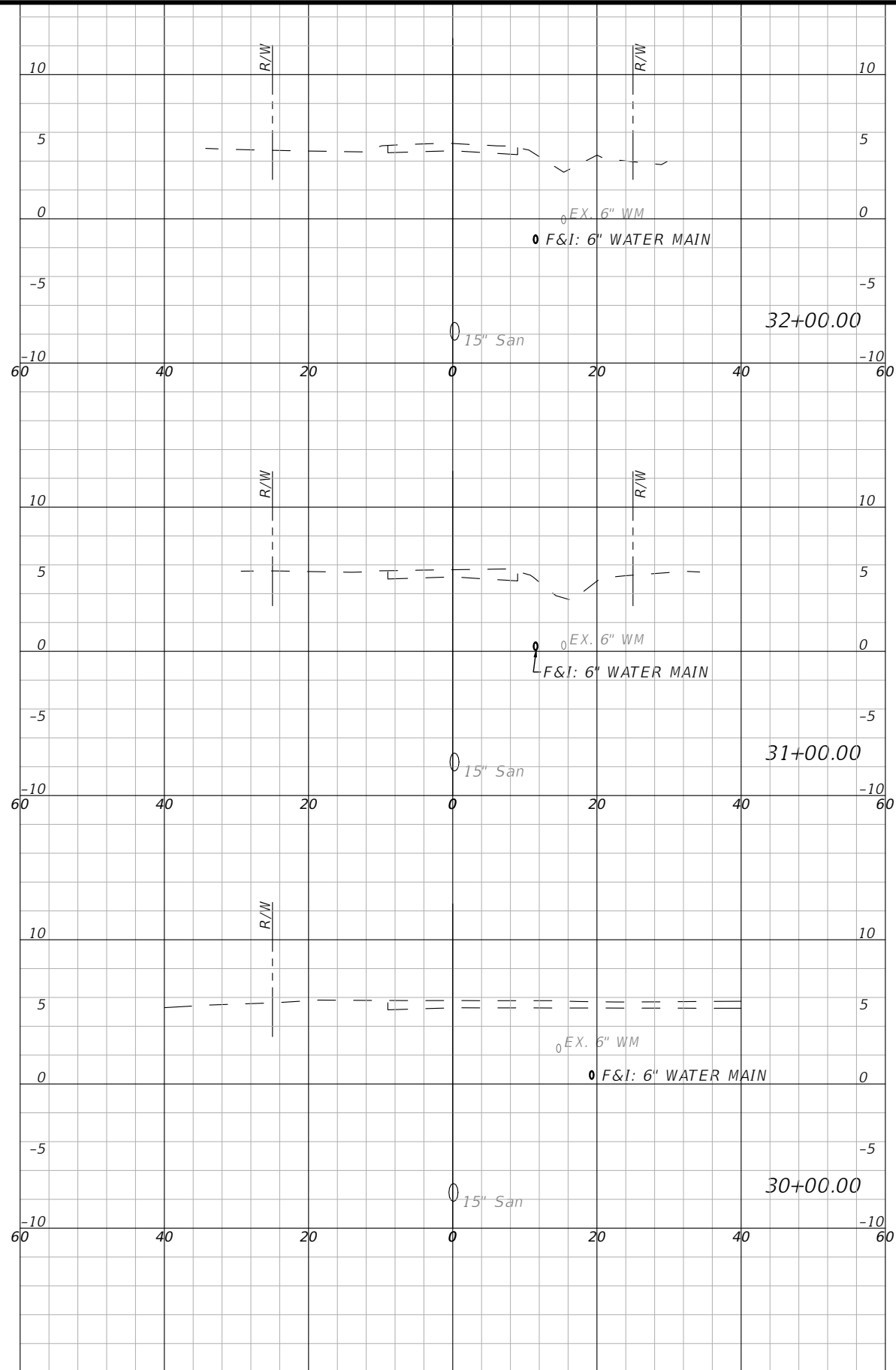


CROSS SECTIONS - 5TH AVE. DR. W.

SHEET NO.
65

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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 J:\66-0172-00 - Manatee County - Palmetto Point Water Main Drawings\66-0172-00 Cross Sections.dwg, Layout: 66



1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

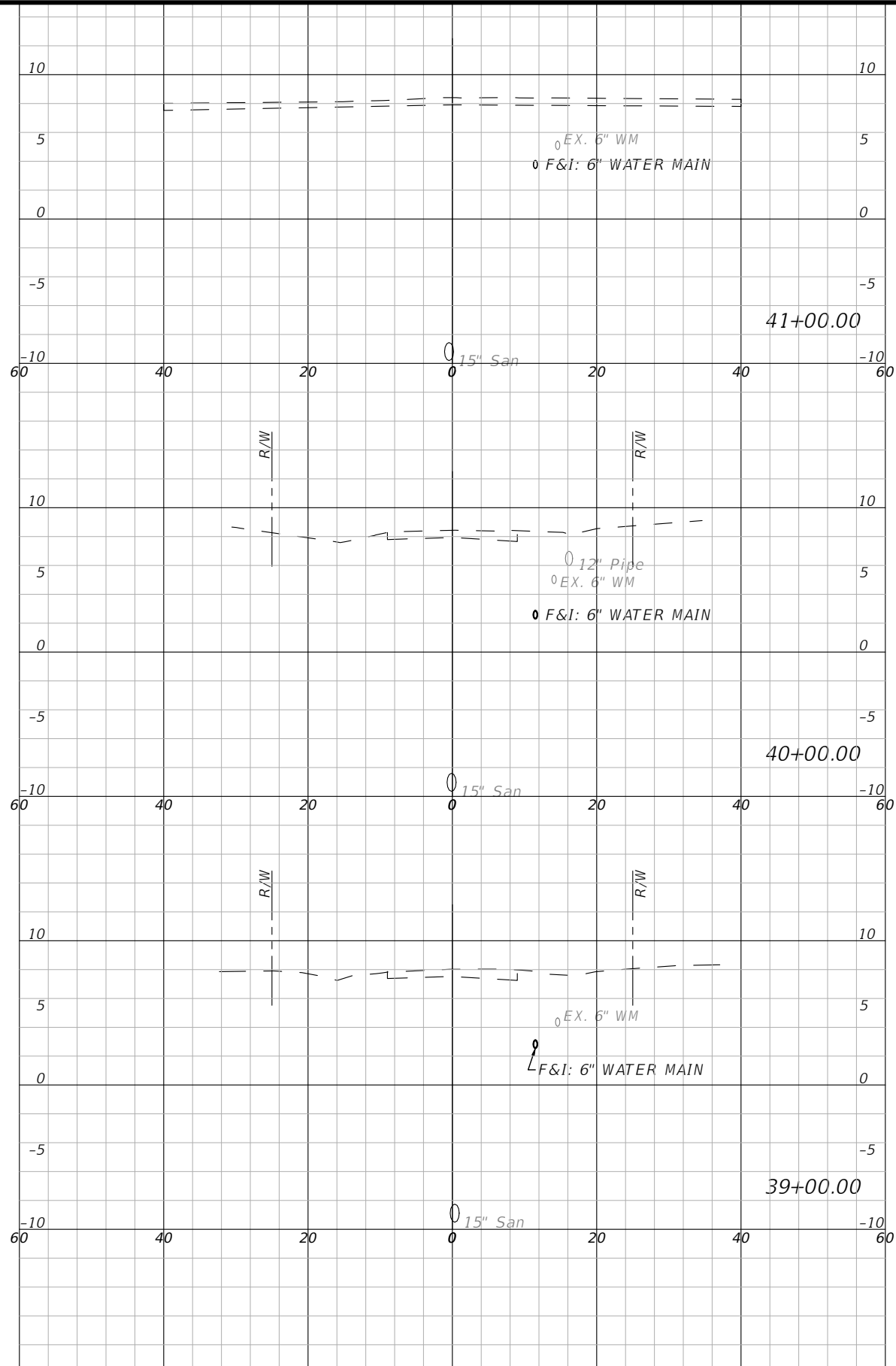
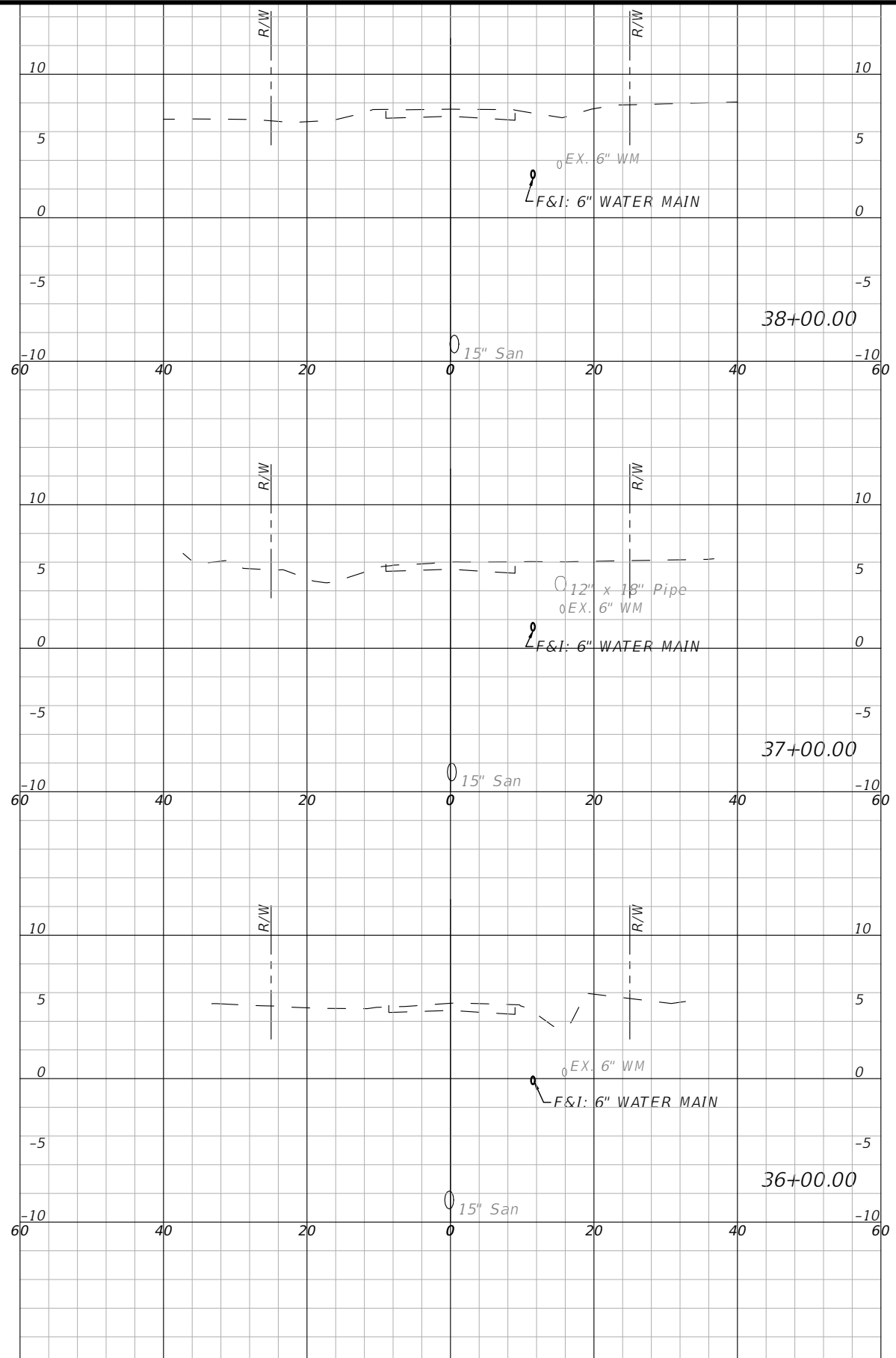


CROSS SECTIONS - 5TH AVE. W.

SHEET NO.
66

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1/18/2019
 J:\66-0172-00 - Manatee County - Palmetto Point Water Main\Drawings\66-0172-00 Cross Sections.dwg, Layout: 67



1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

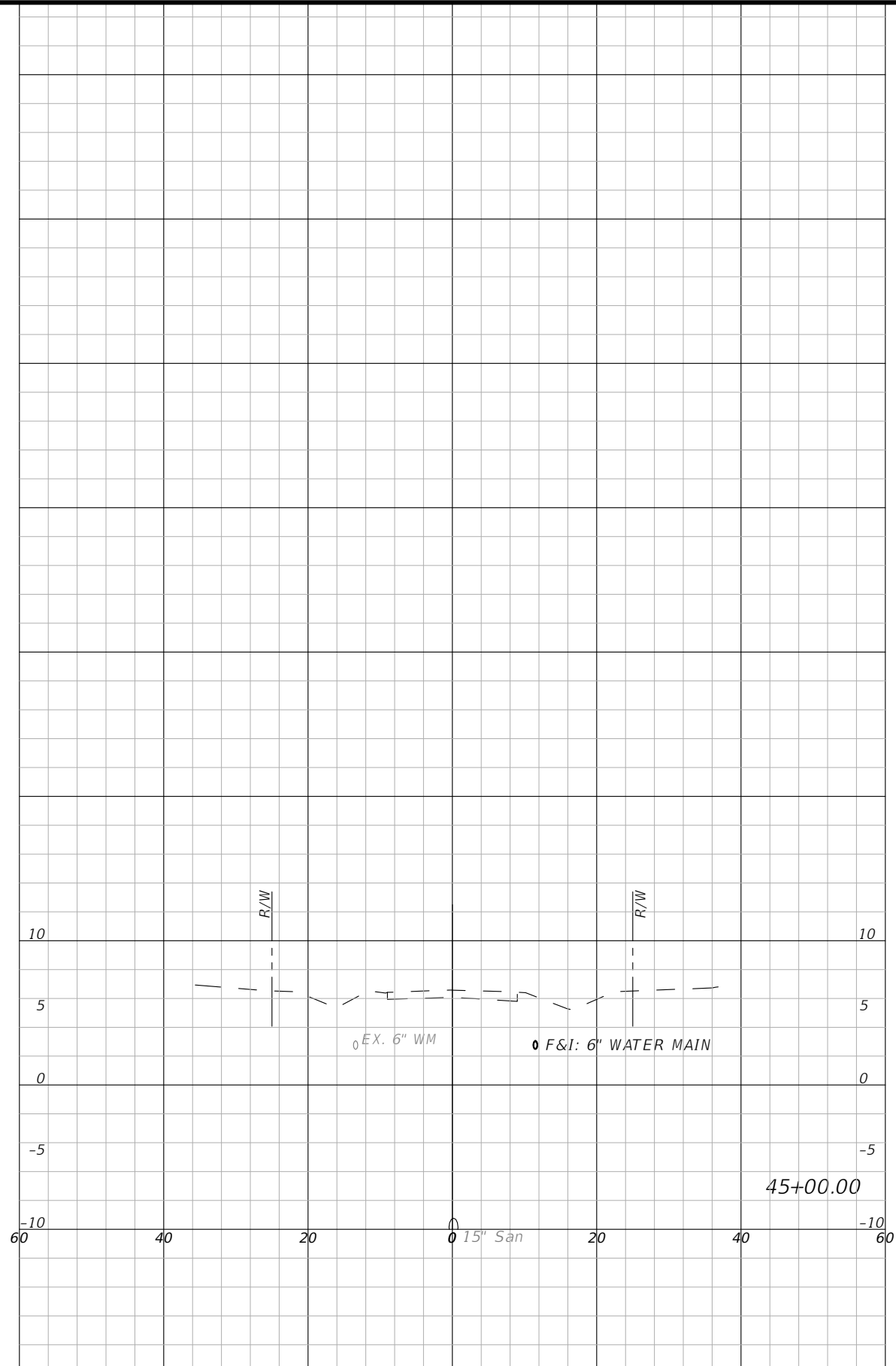
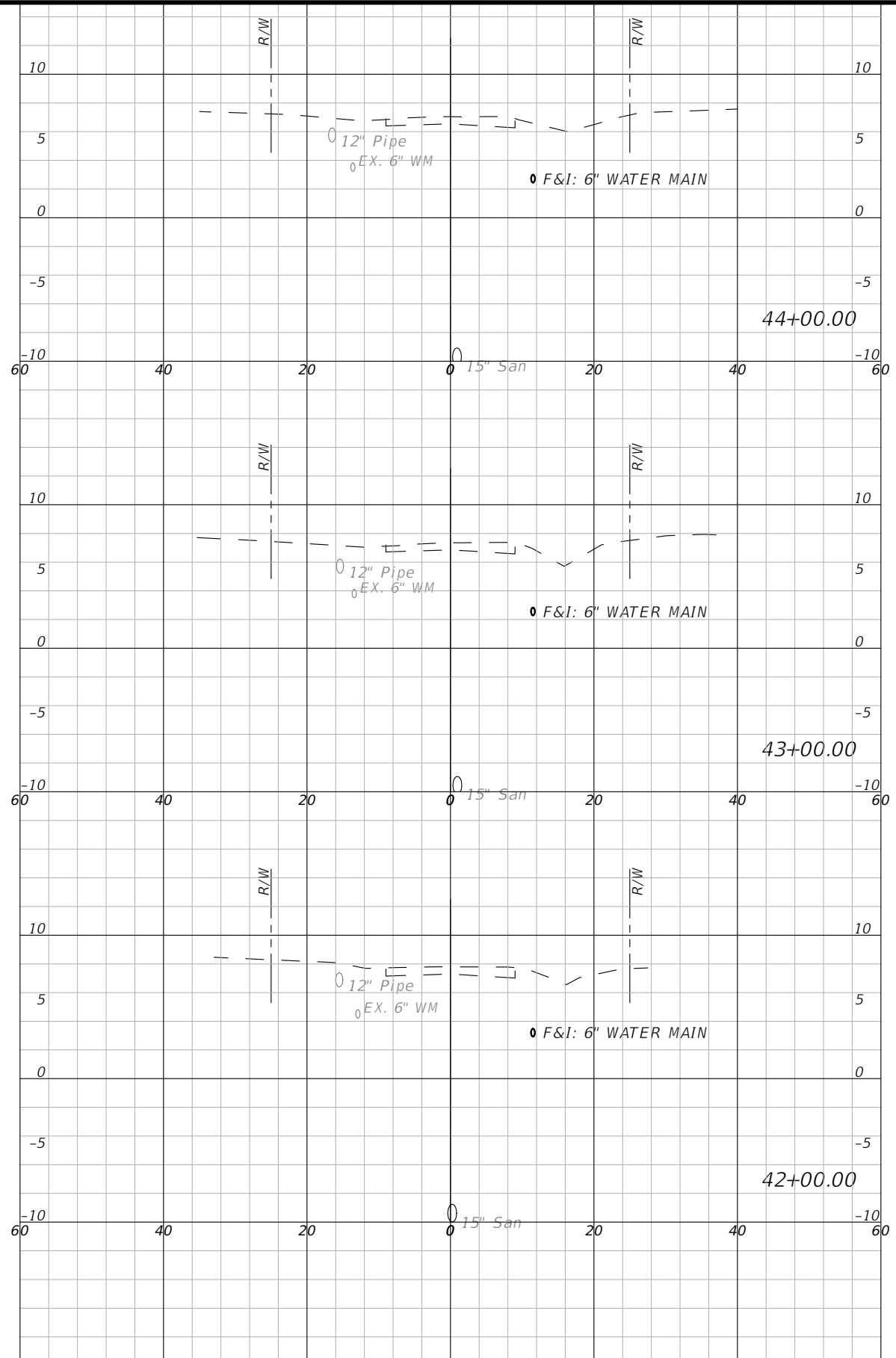


CROSS SECTIONS - 5TH AVE. W.

SHEET NO.
67

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
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PALMETTO POINT WATER MAIN REPLACEMENT
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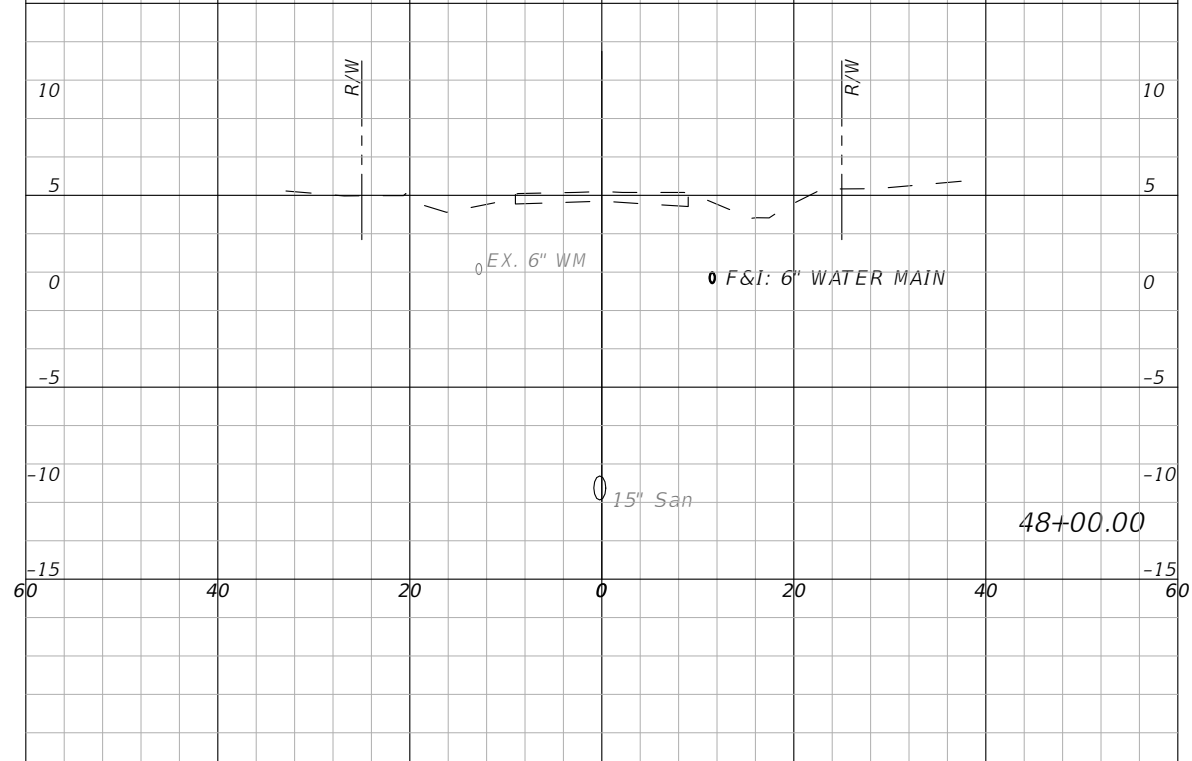
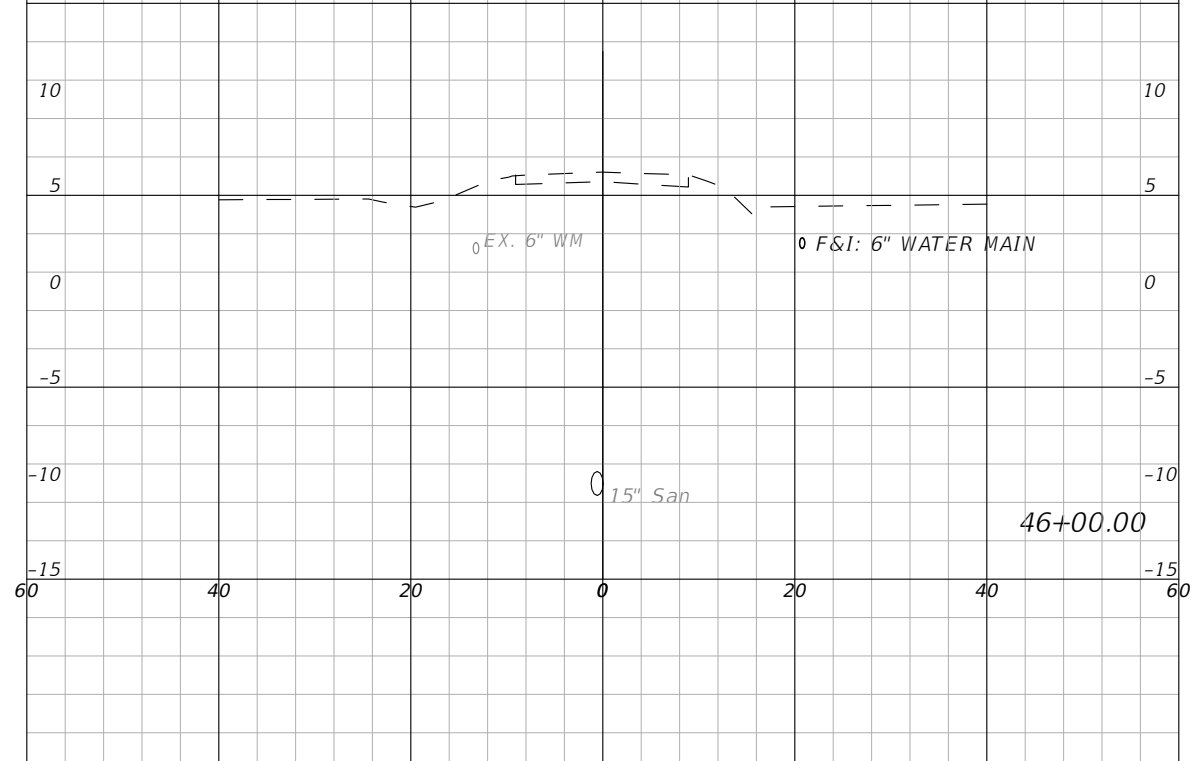
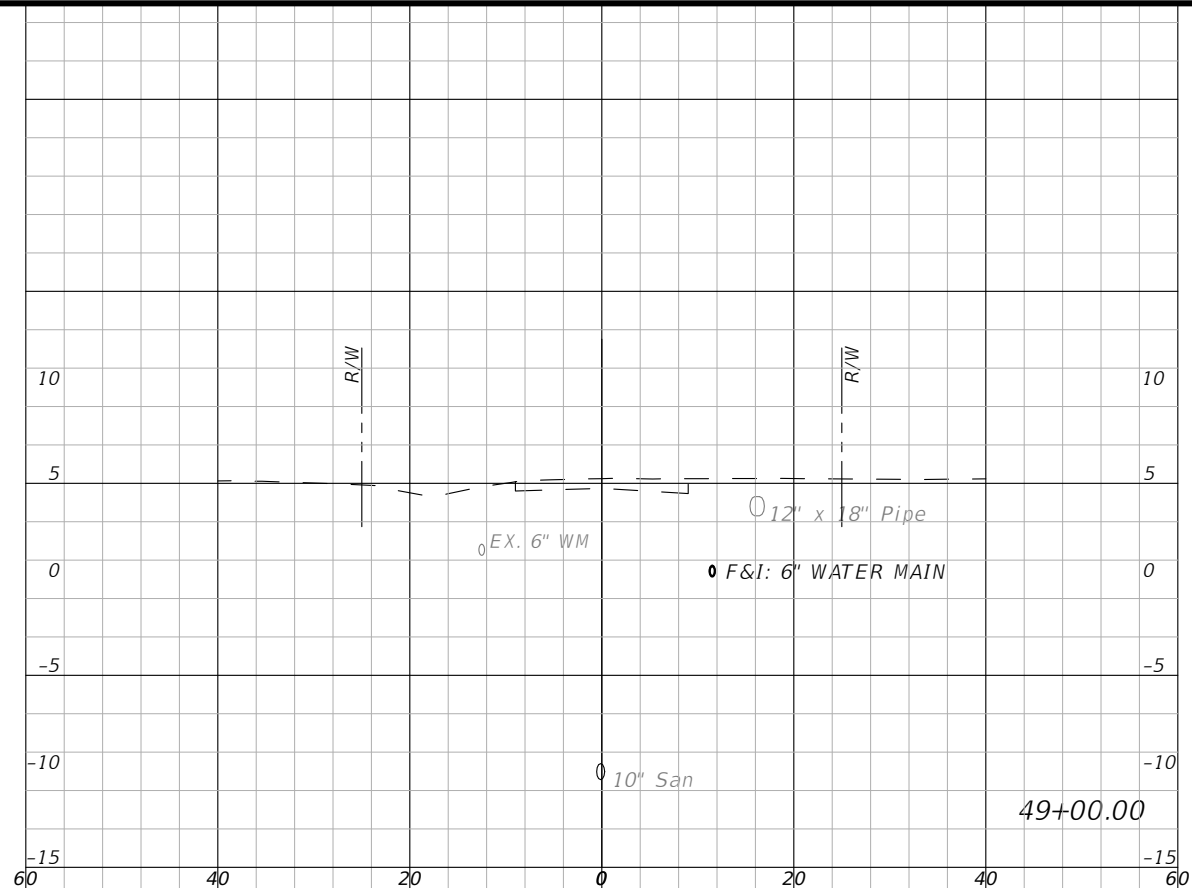
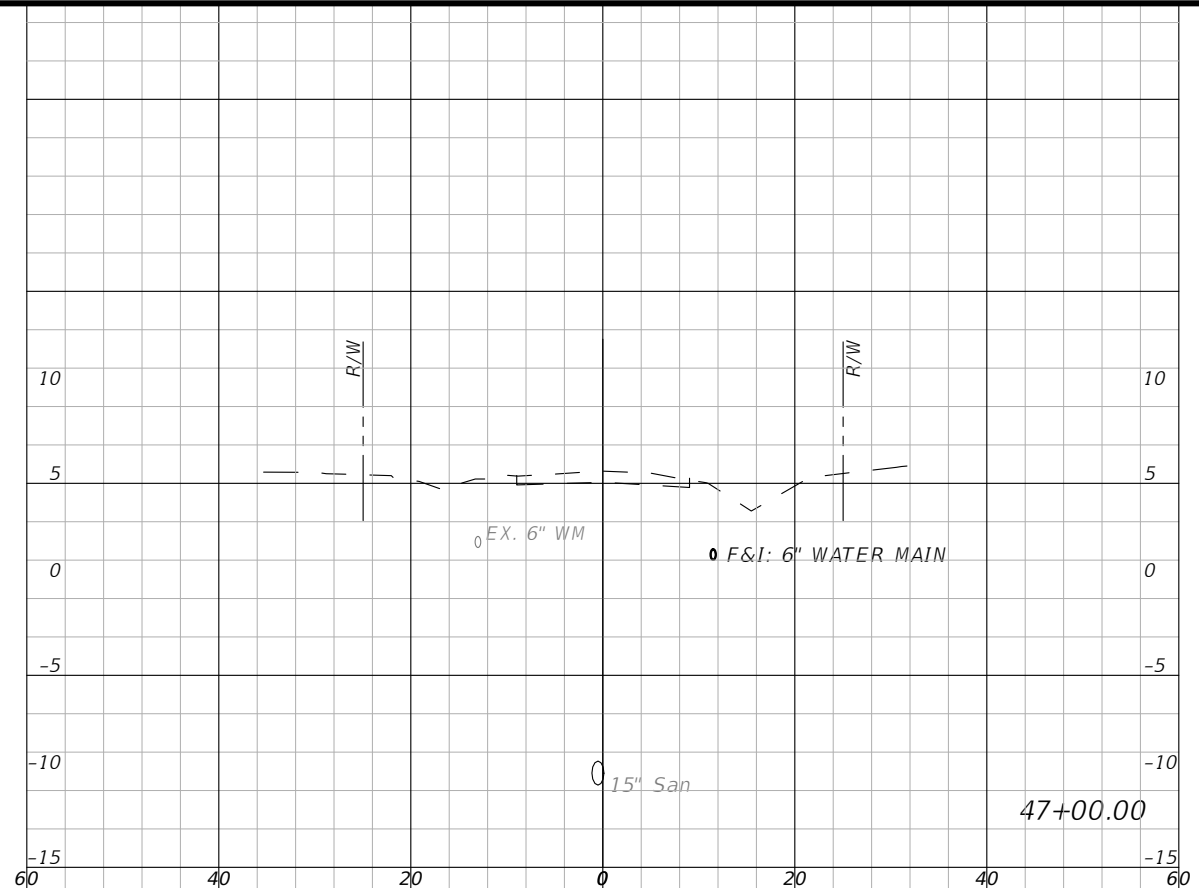


CROSS SECTIONS - 5TH AVE. W.

SHEET NO.
 68

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

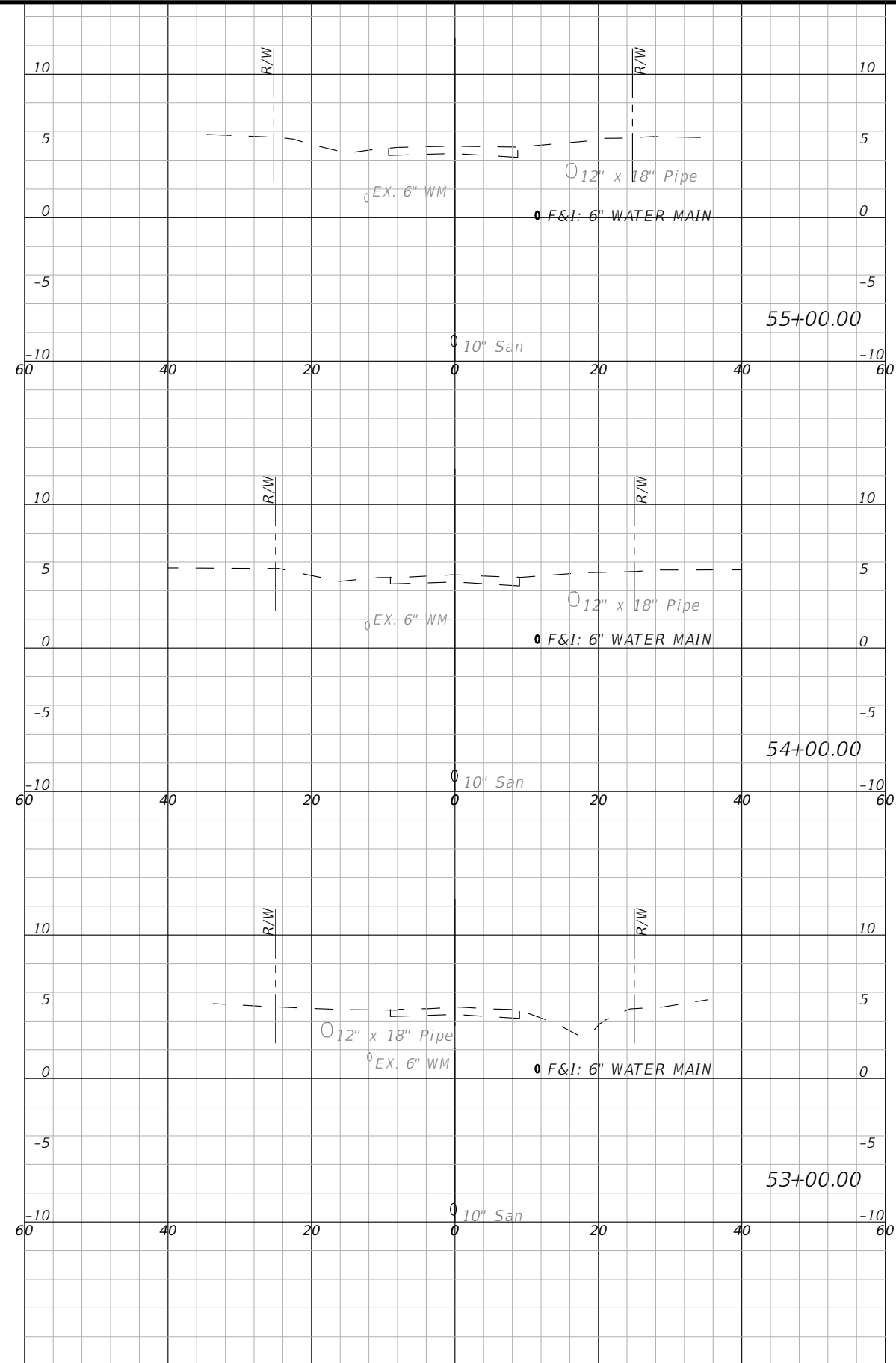
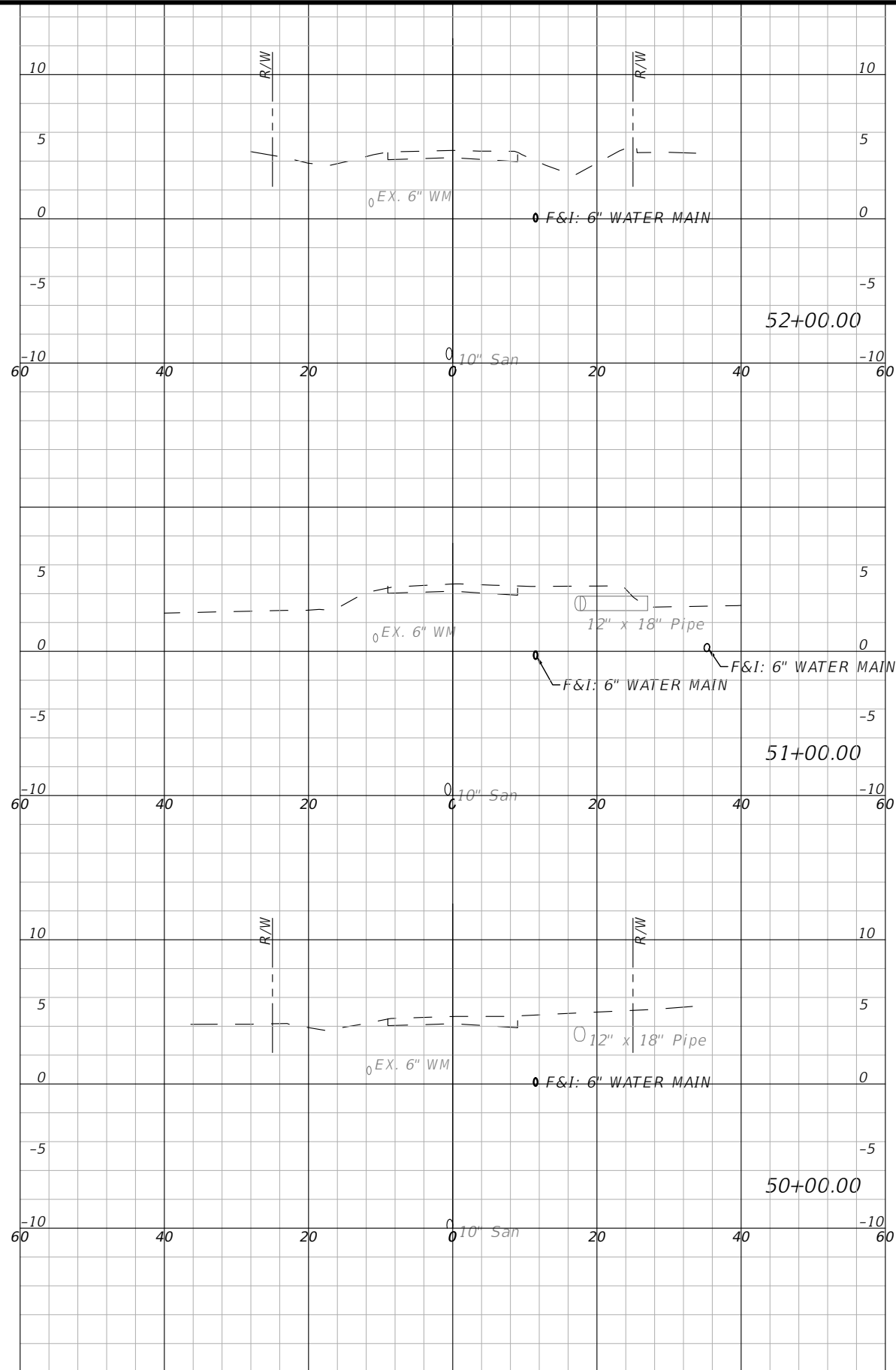


CROSS SECTIONS - 5TH AVE. W.

SHEET NO.
69

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	
		DATE	
		REVISION	

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PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

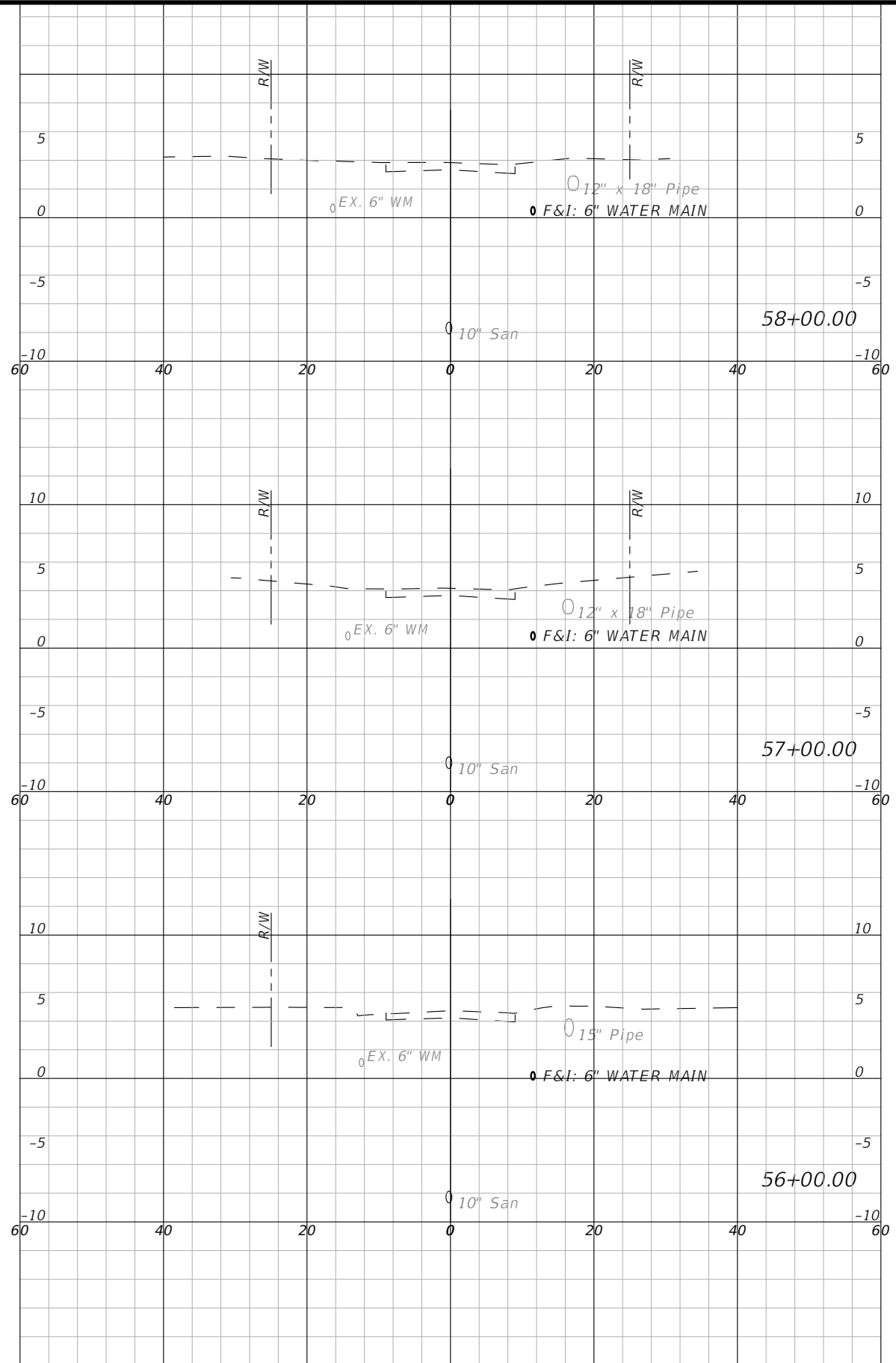


CROSS SECTIONS - 5TH AVE. W.

SHEET NO.
70

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

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PALMETTO, FLORIDA
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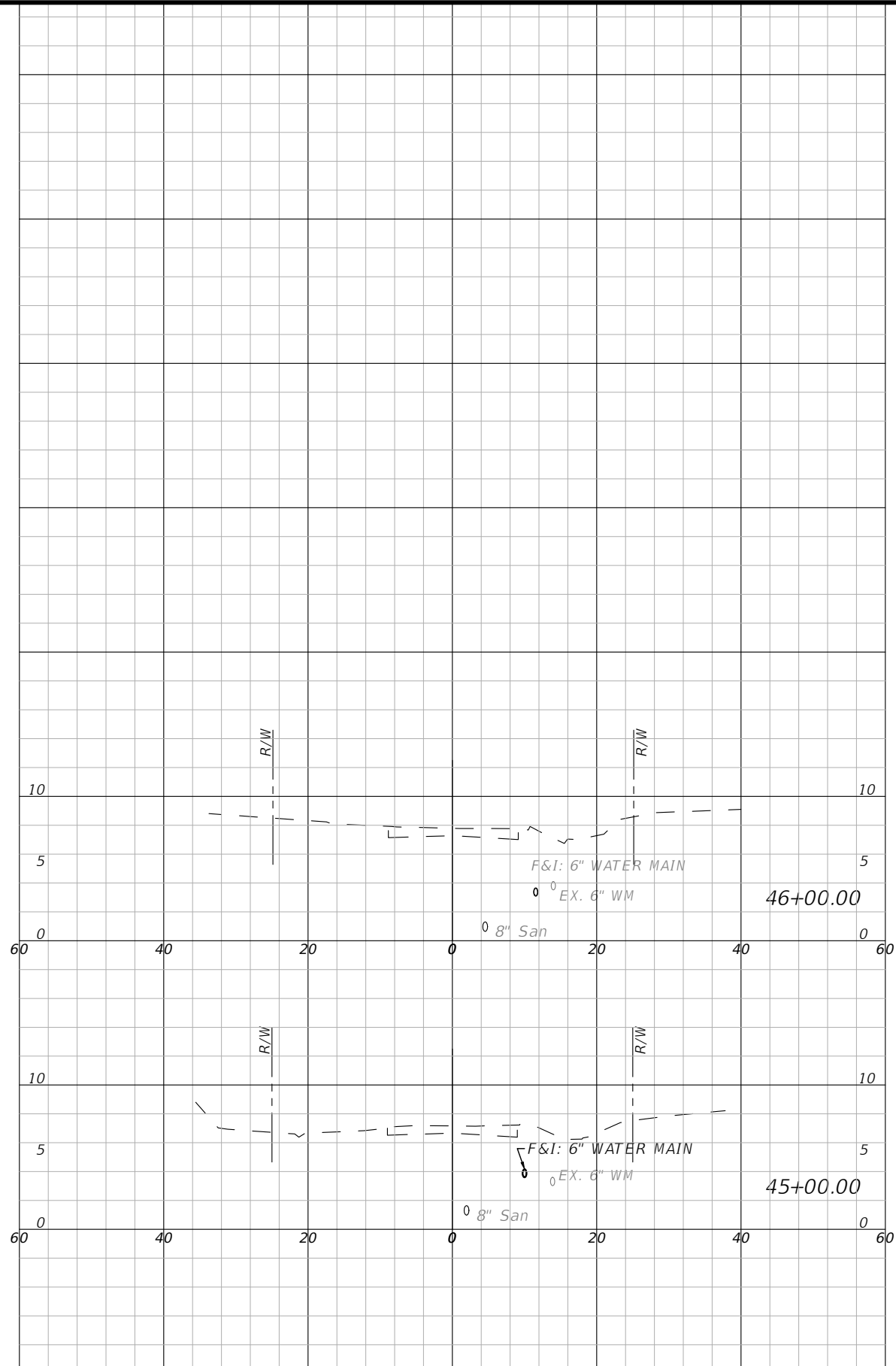
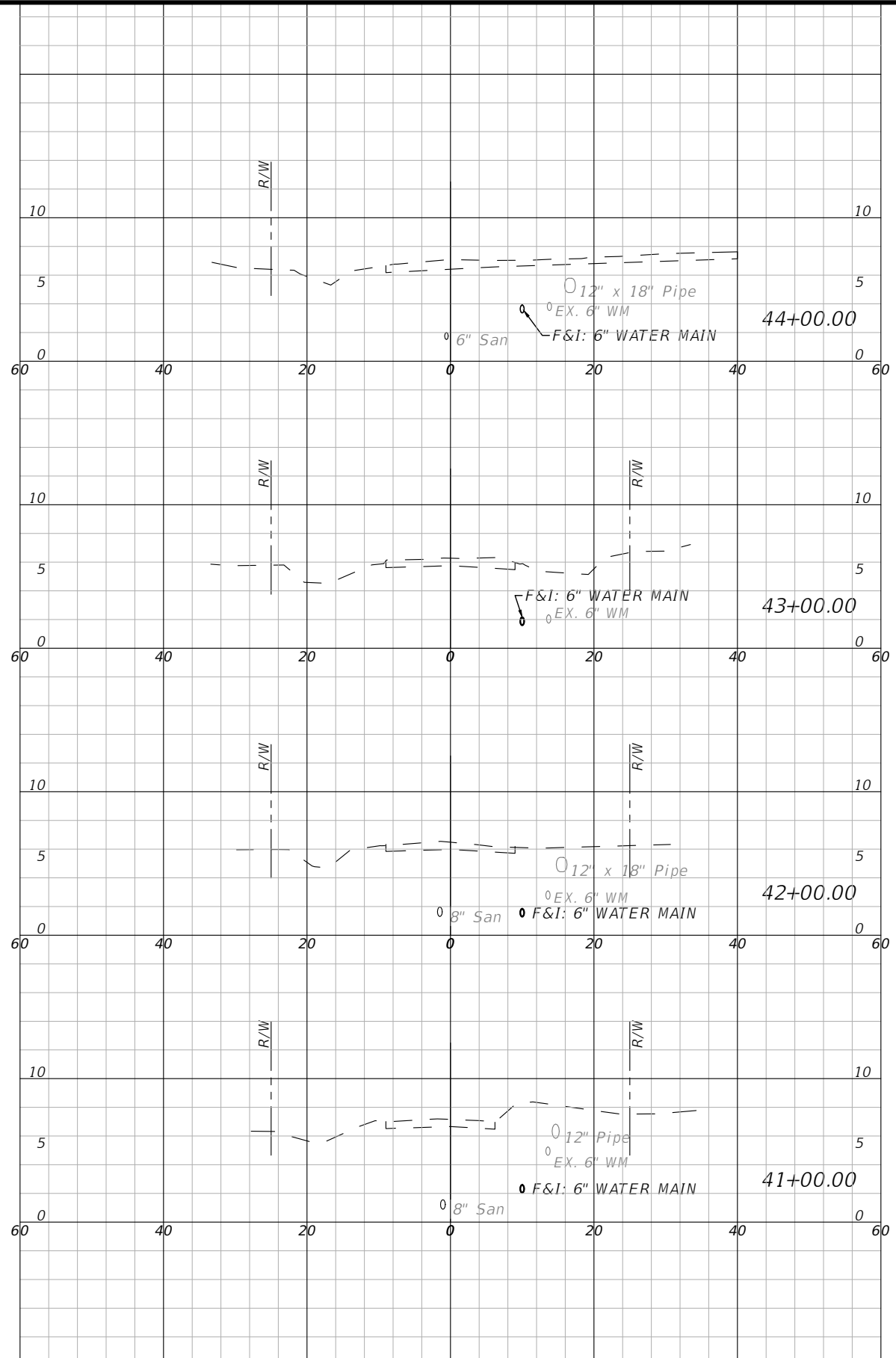


CROSS SECTIONS - 5TH AVE. W.

SHEET NO.
71

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
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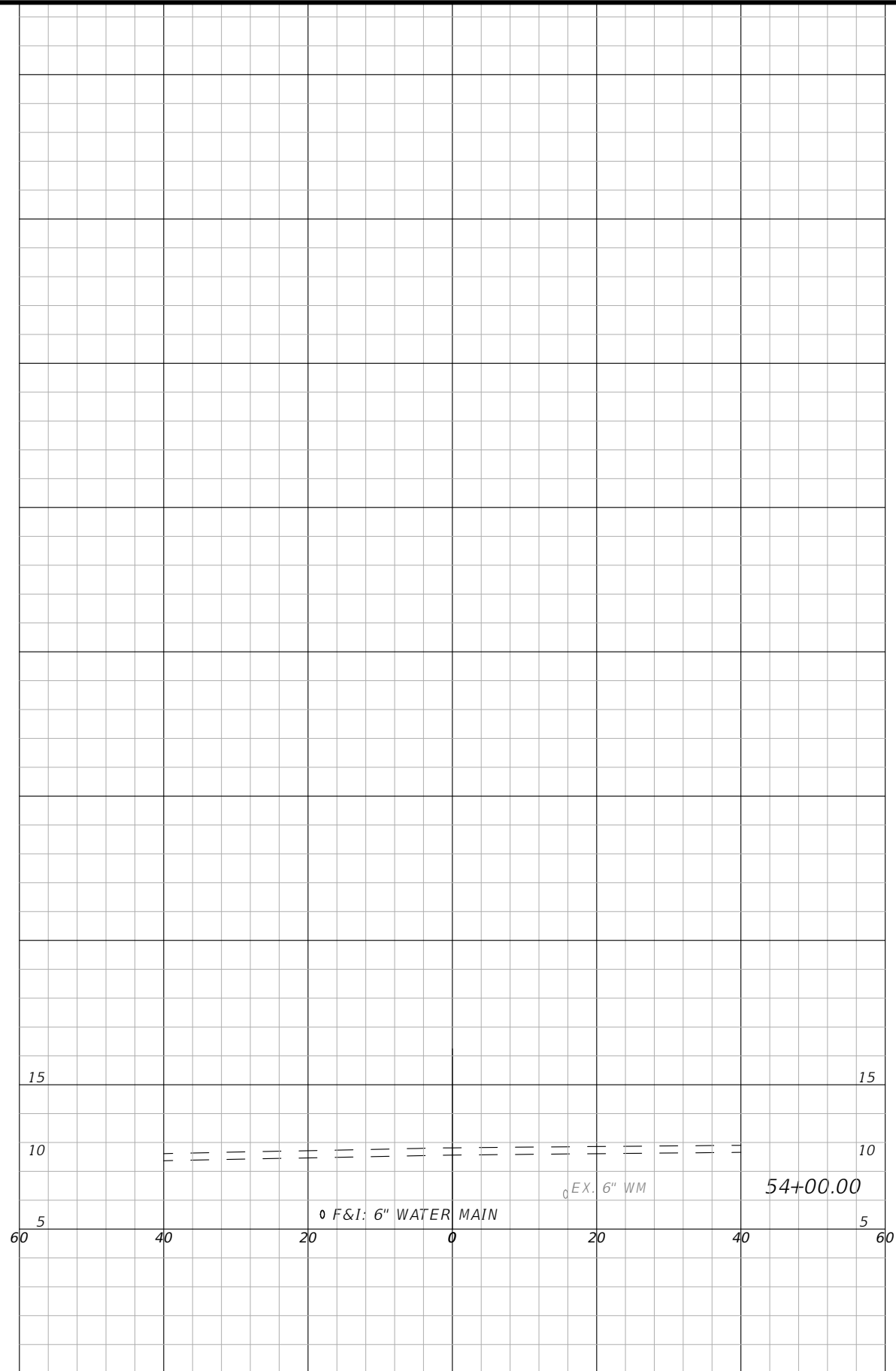
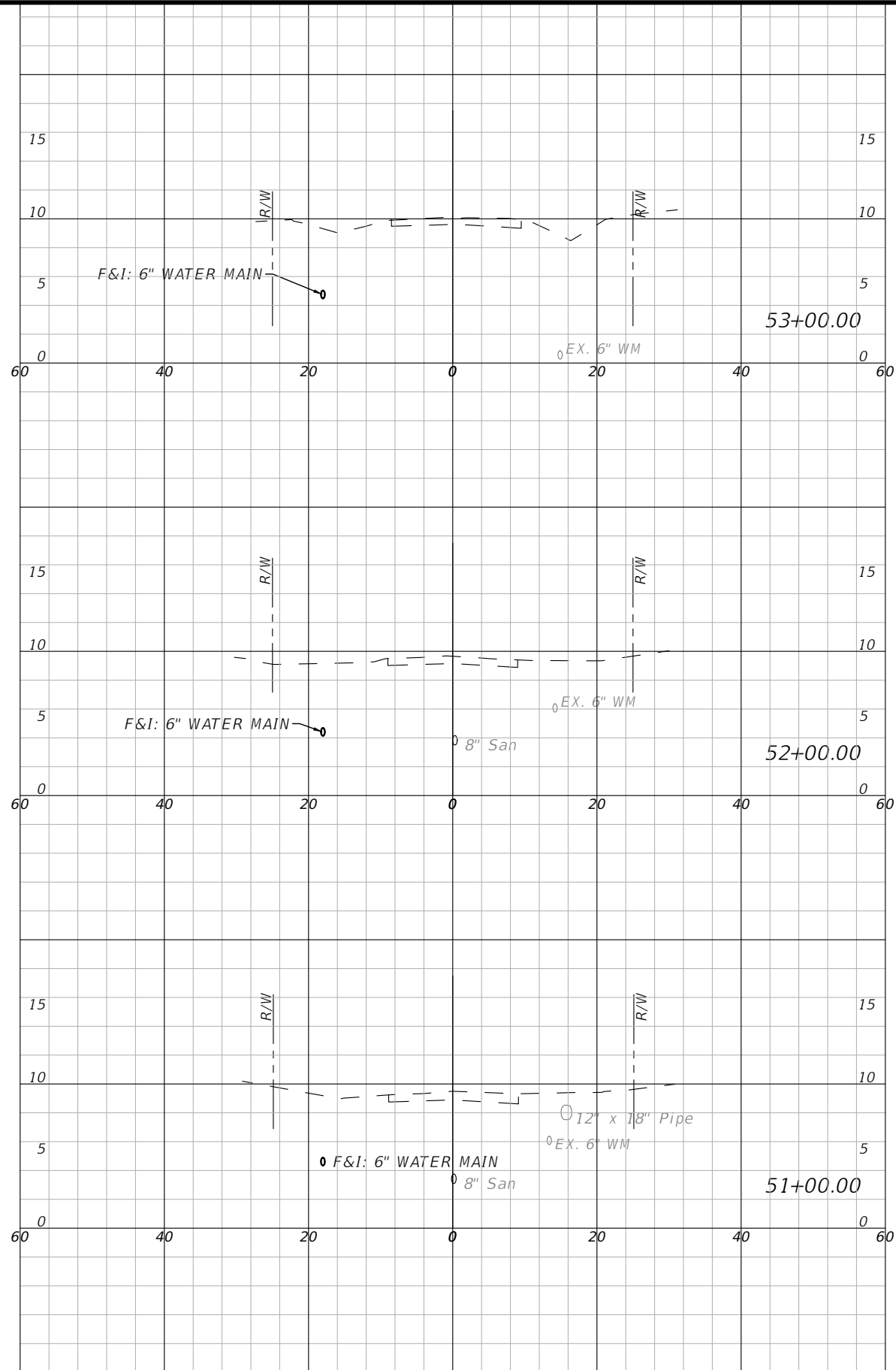


CROSS SECTIONS - 4TH AVE. DR. W.

SHEET NO.
72

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO			
DR BY	AD	66-0172.00			
CHK BY	CKM	DATE	NOV 2019	NO	DATE
					REVISION

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

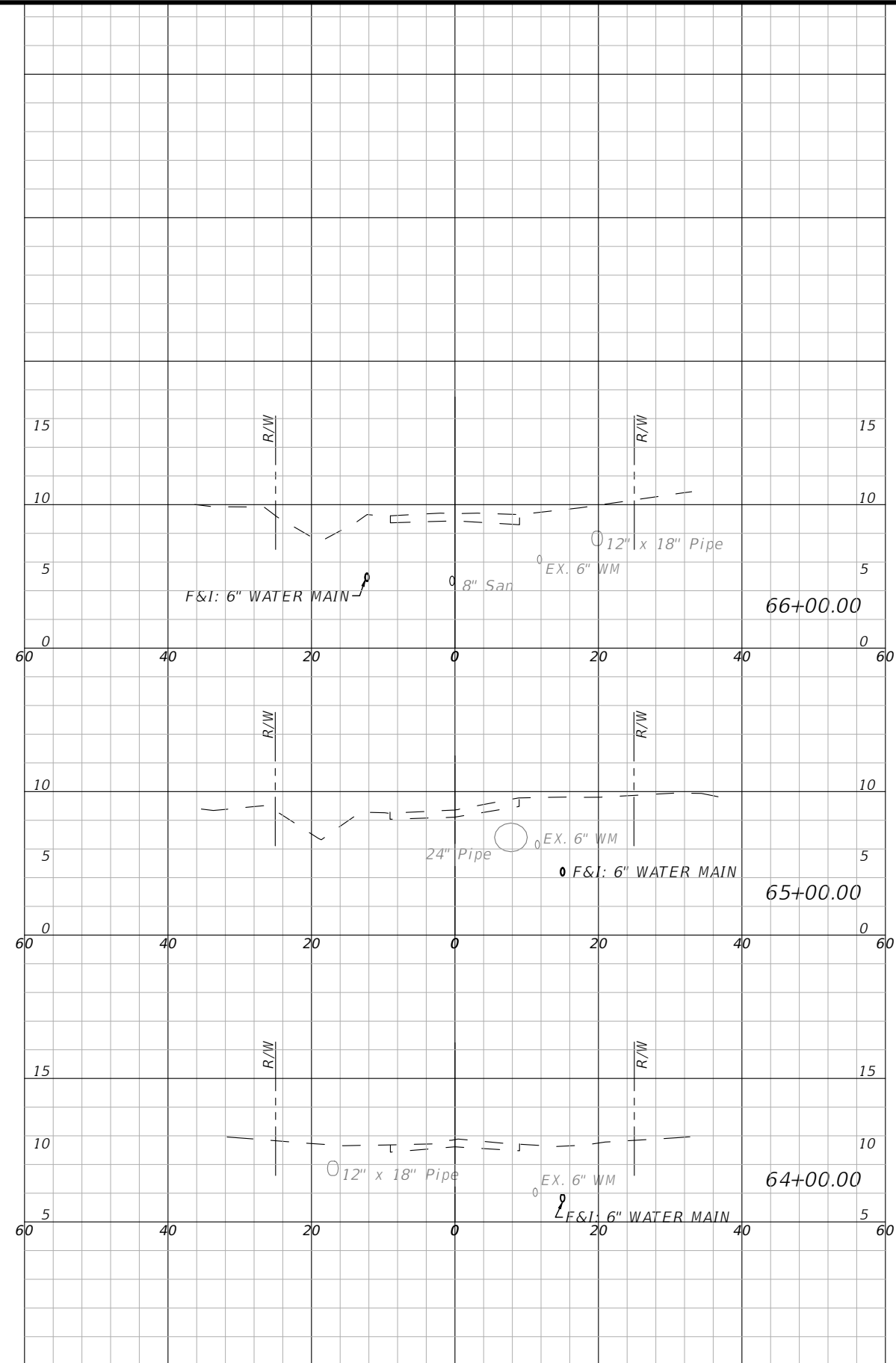
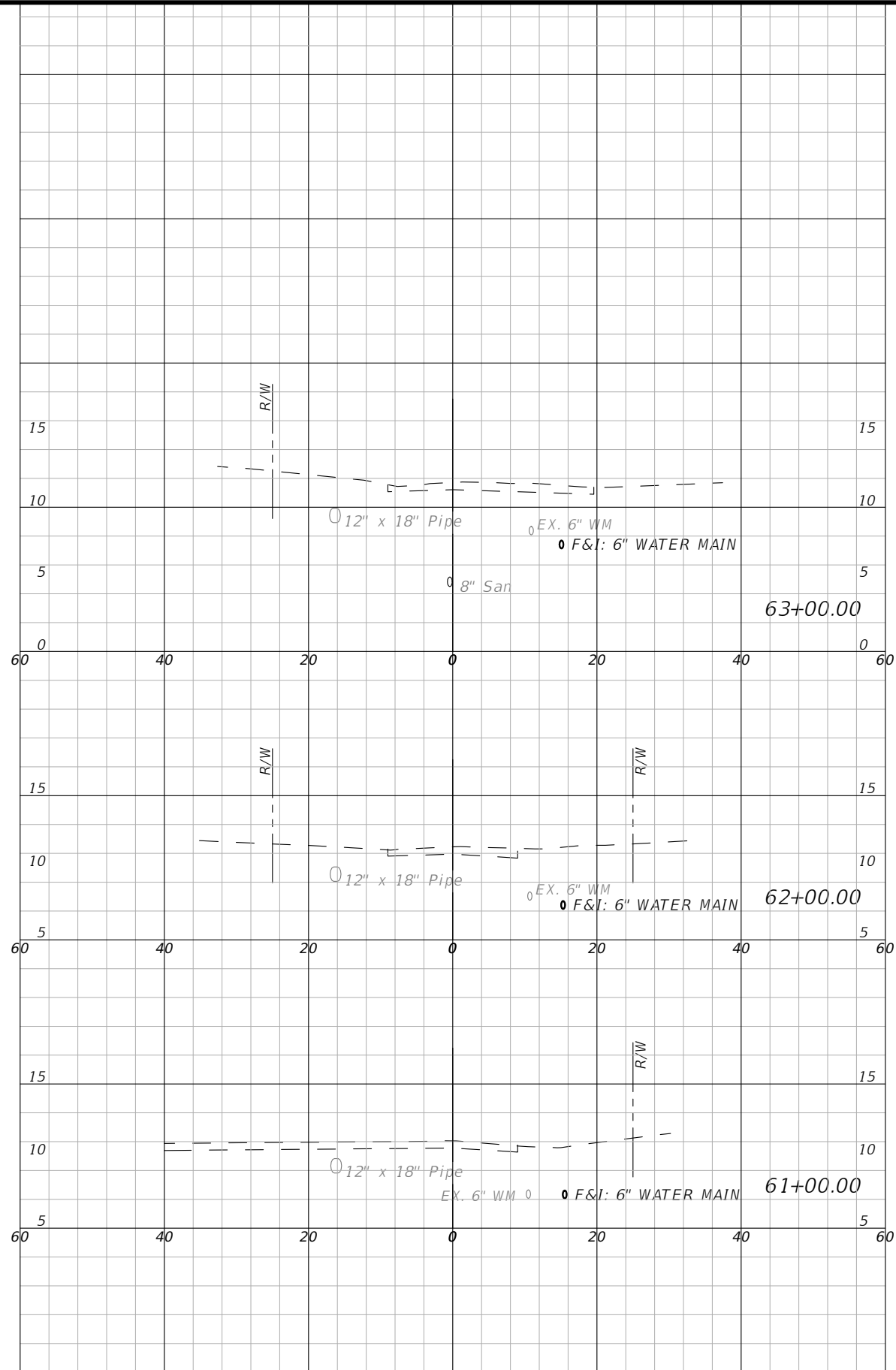


CROSS SECTIONS - 4TH AVE. W.

SHEET NO.
73

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
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 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

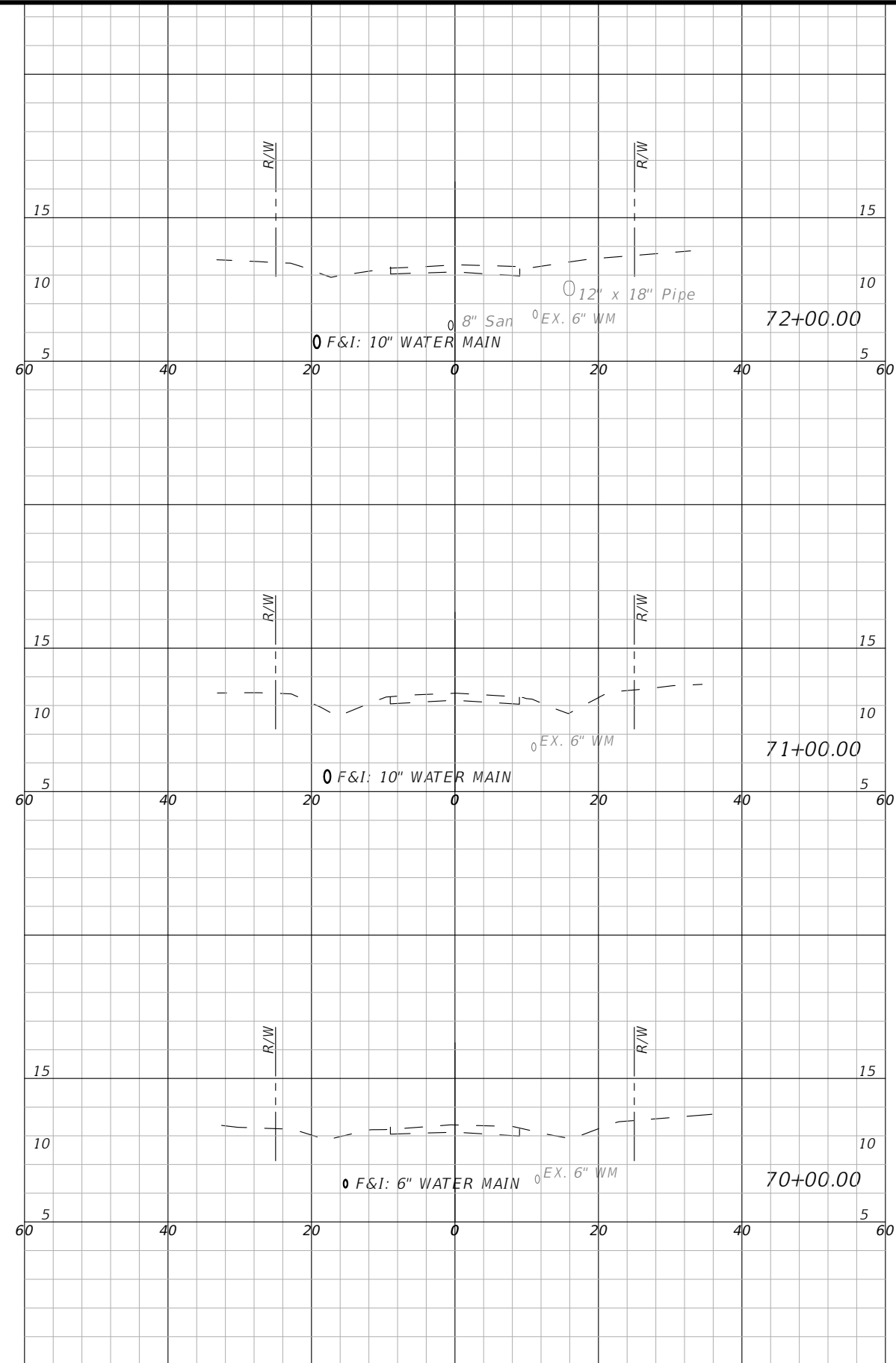
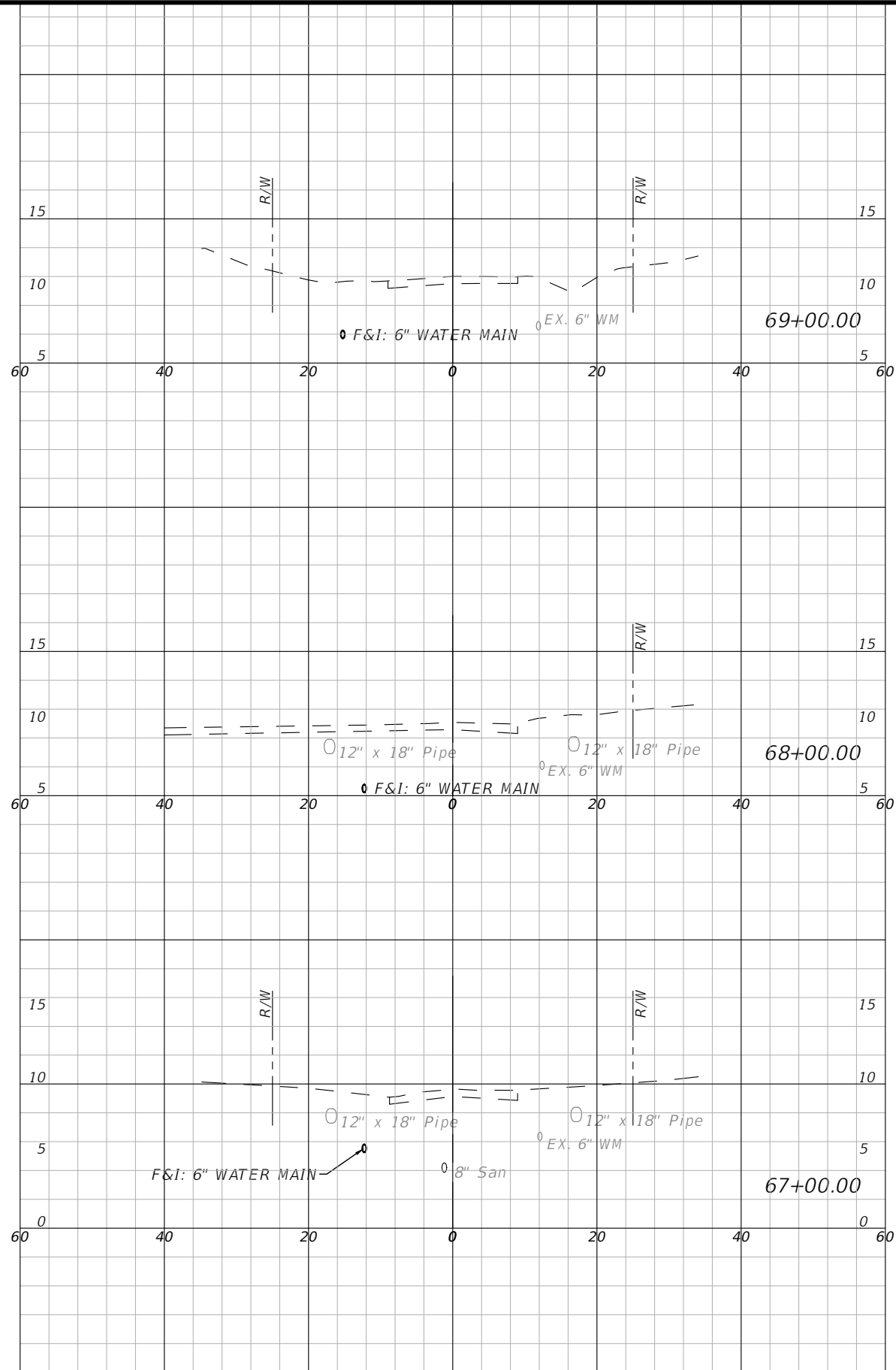


CROSS SECTIONS - 3RD AVE. W.

SHEET NO.
 74

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
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PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

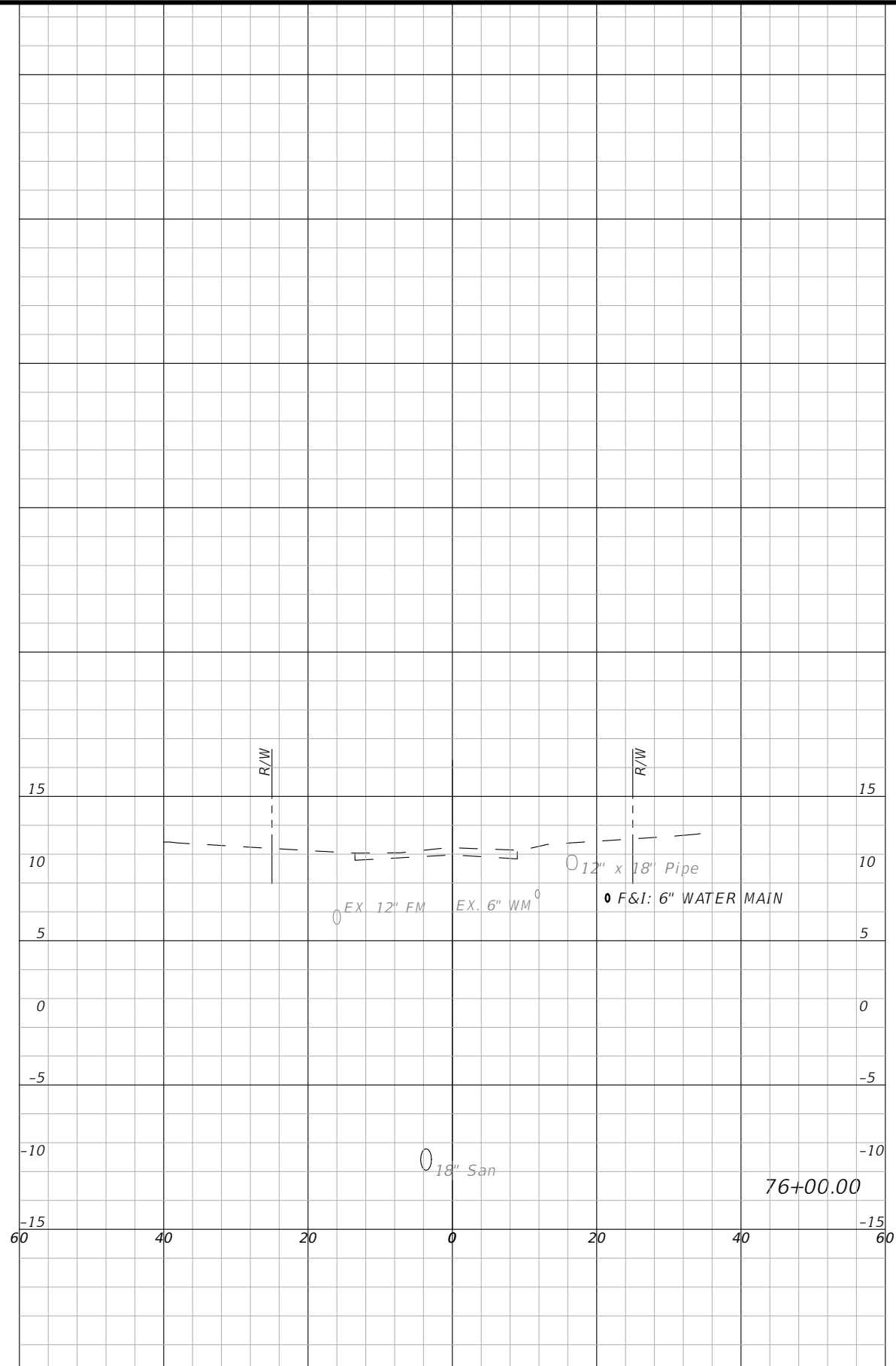
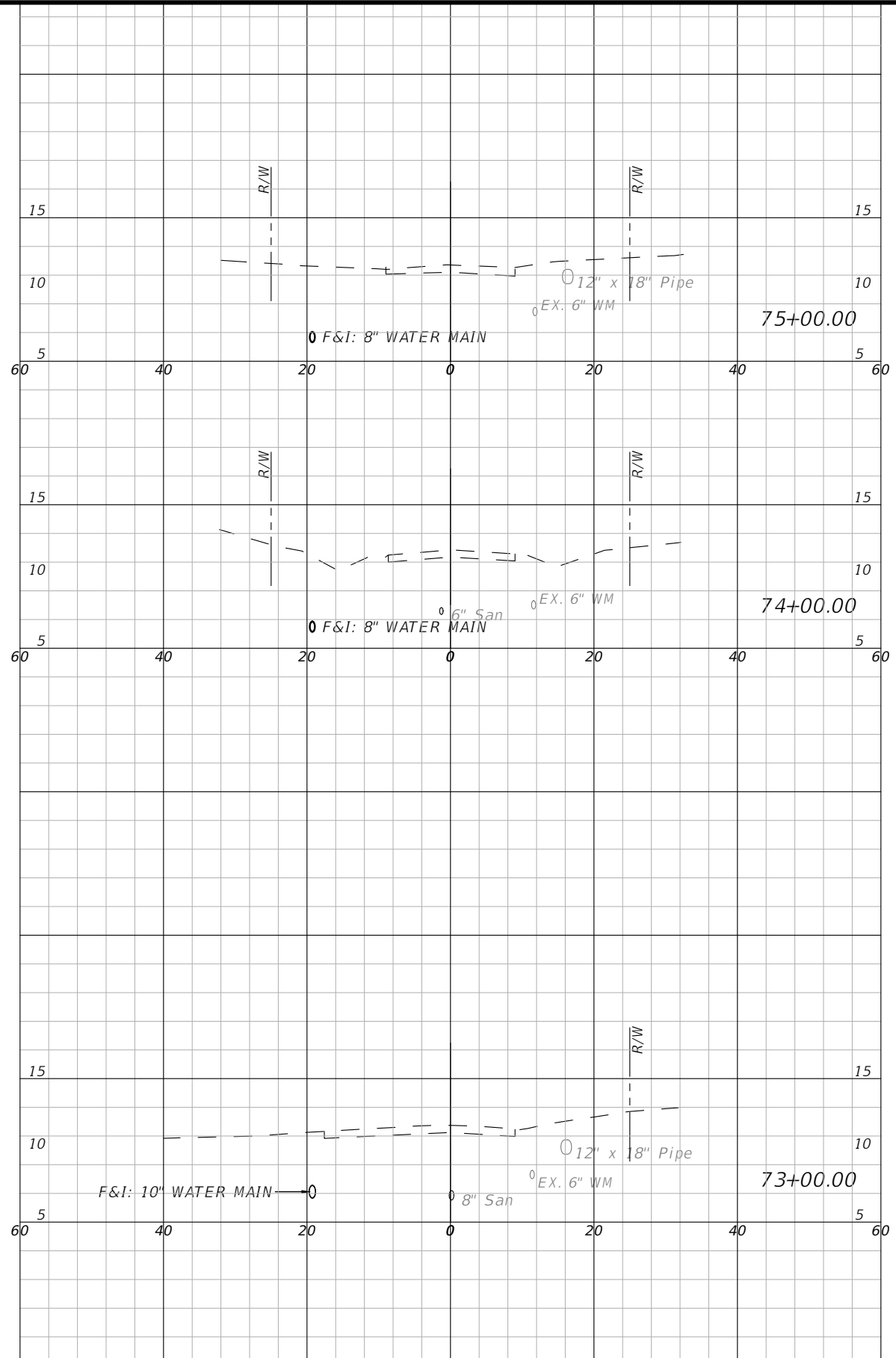


CROSS SECTIONS - 3RD AVE. W.

SHEET NO. 75

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
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PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

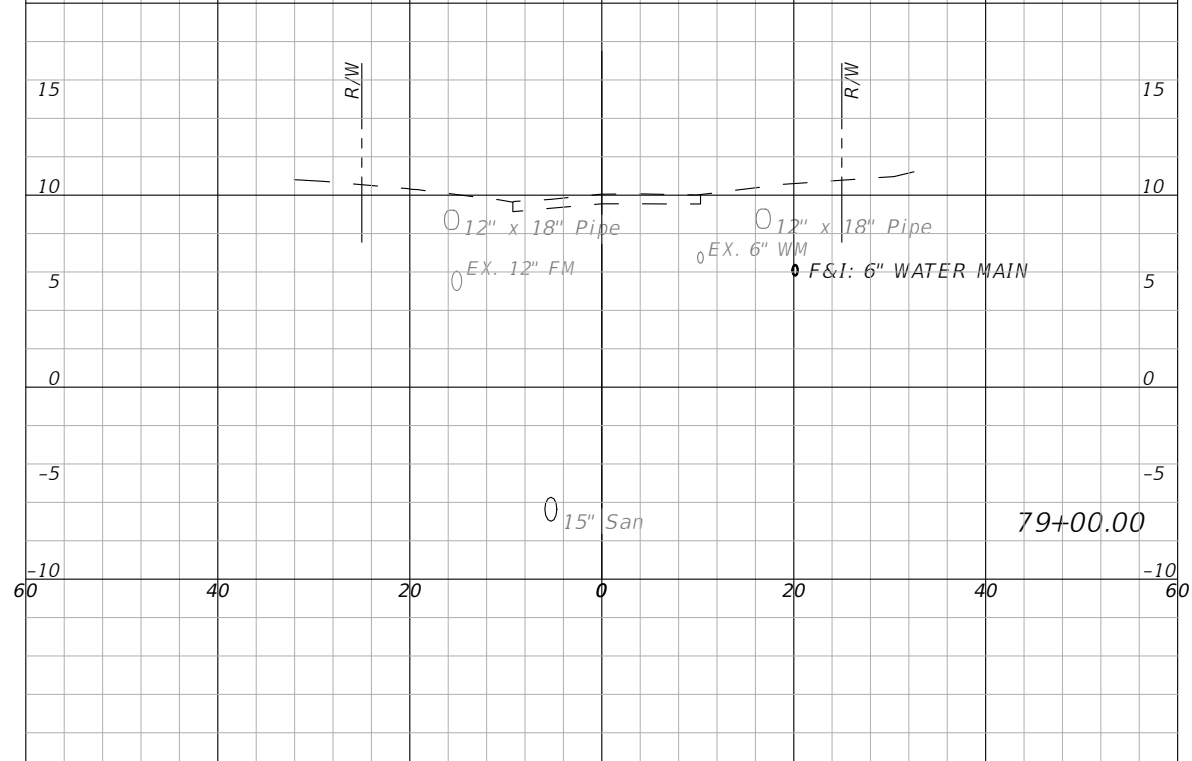
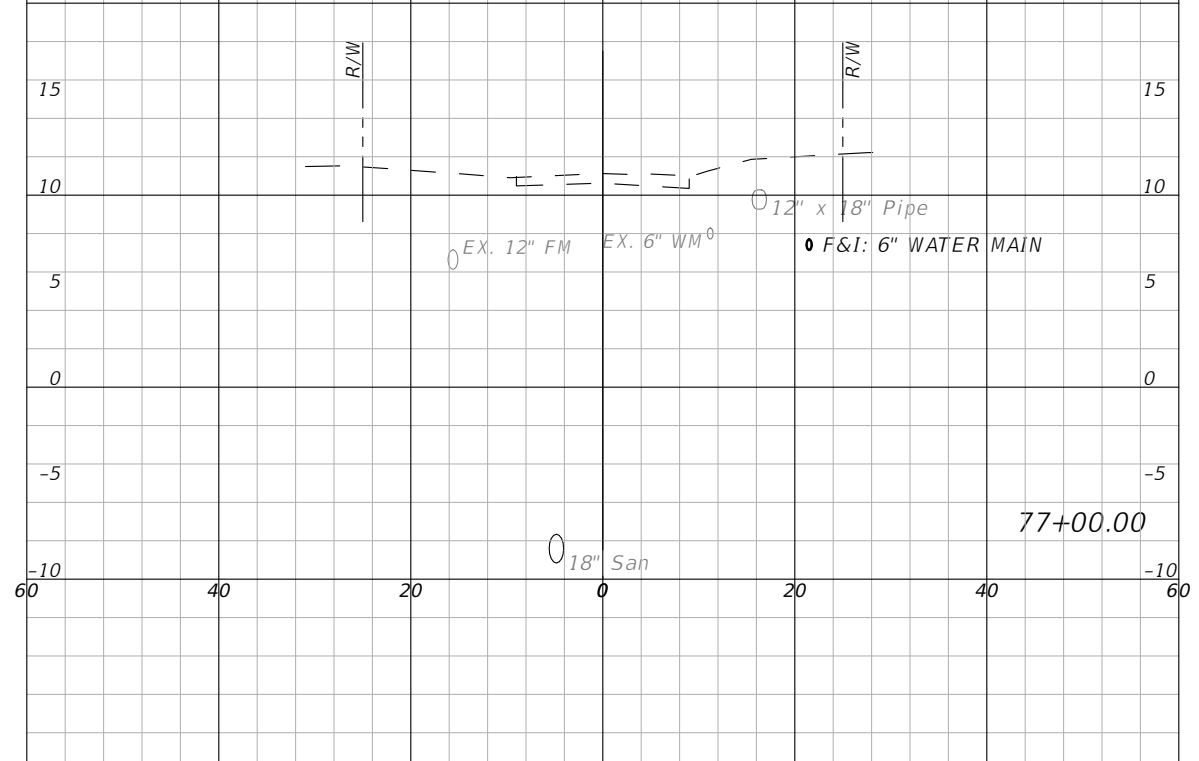
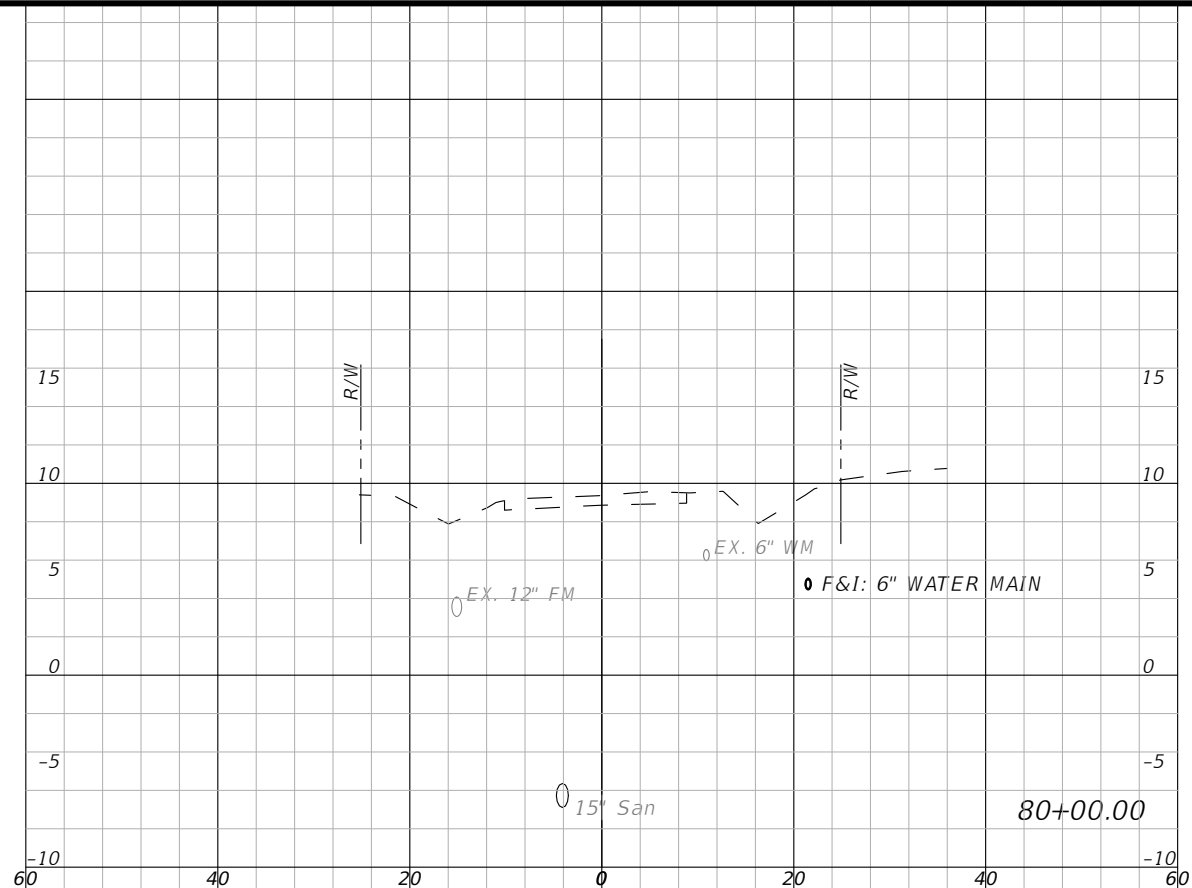
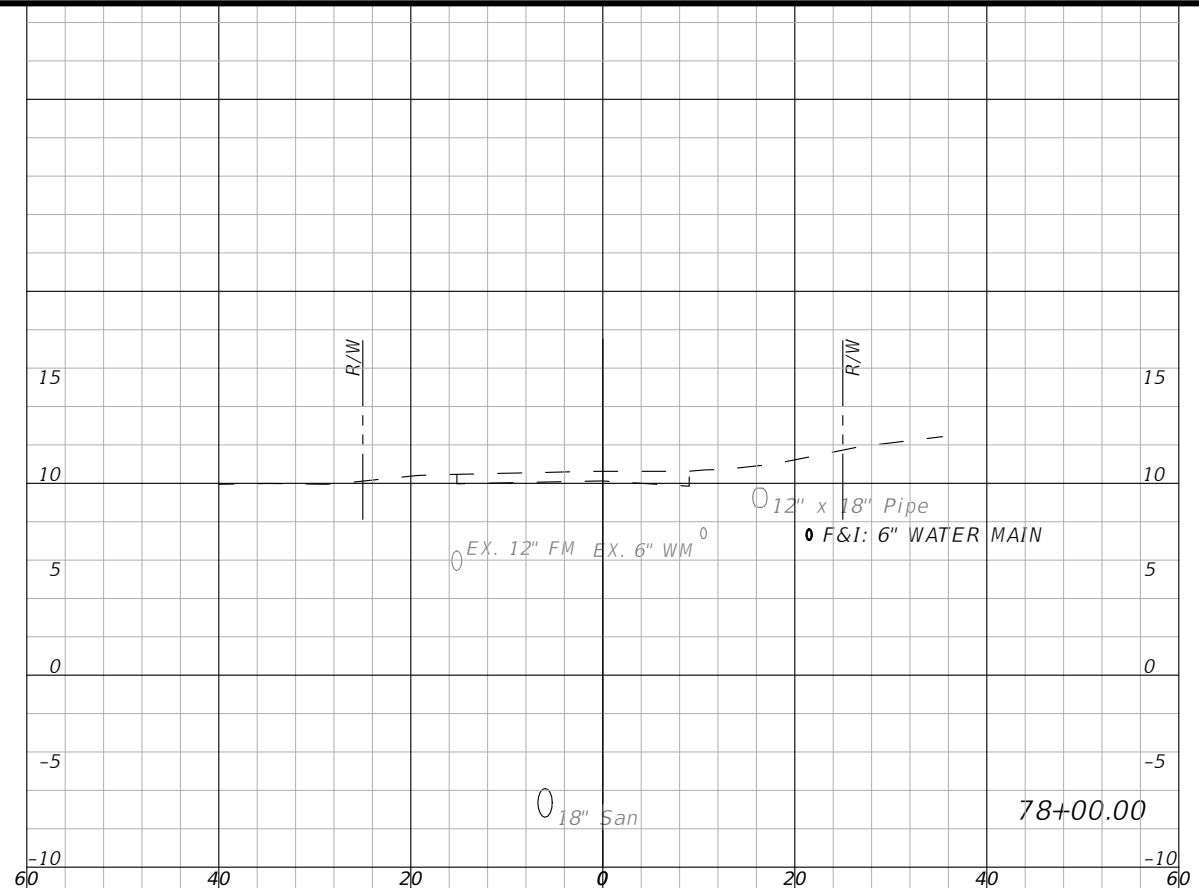


CROSS SECTIONS - 3RD AVE. W.

SHEET NO.
76

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

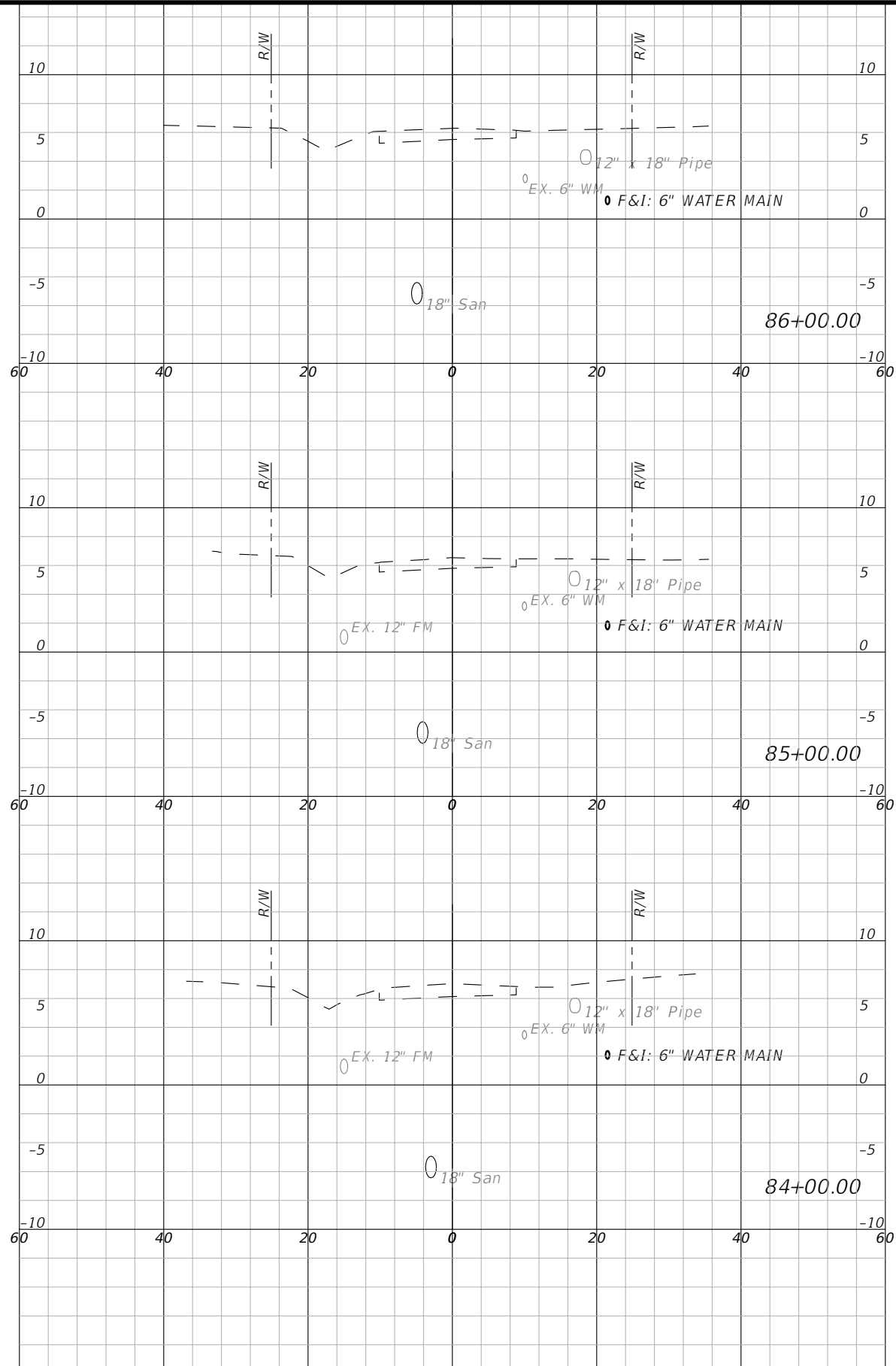
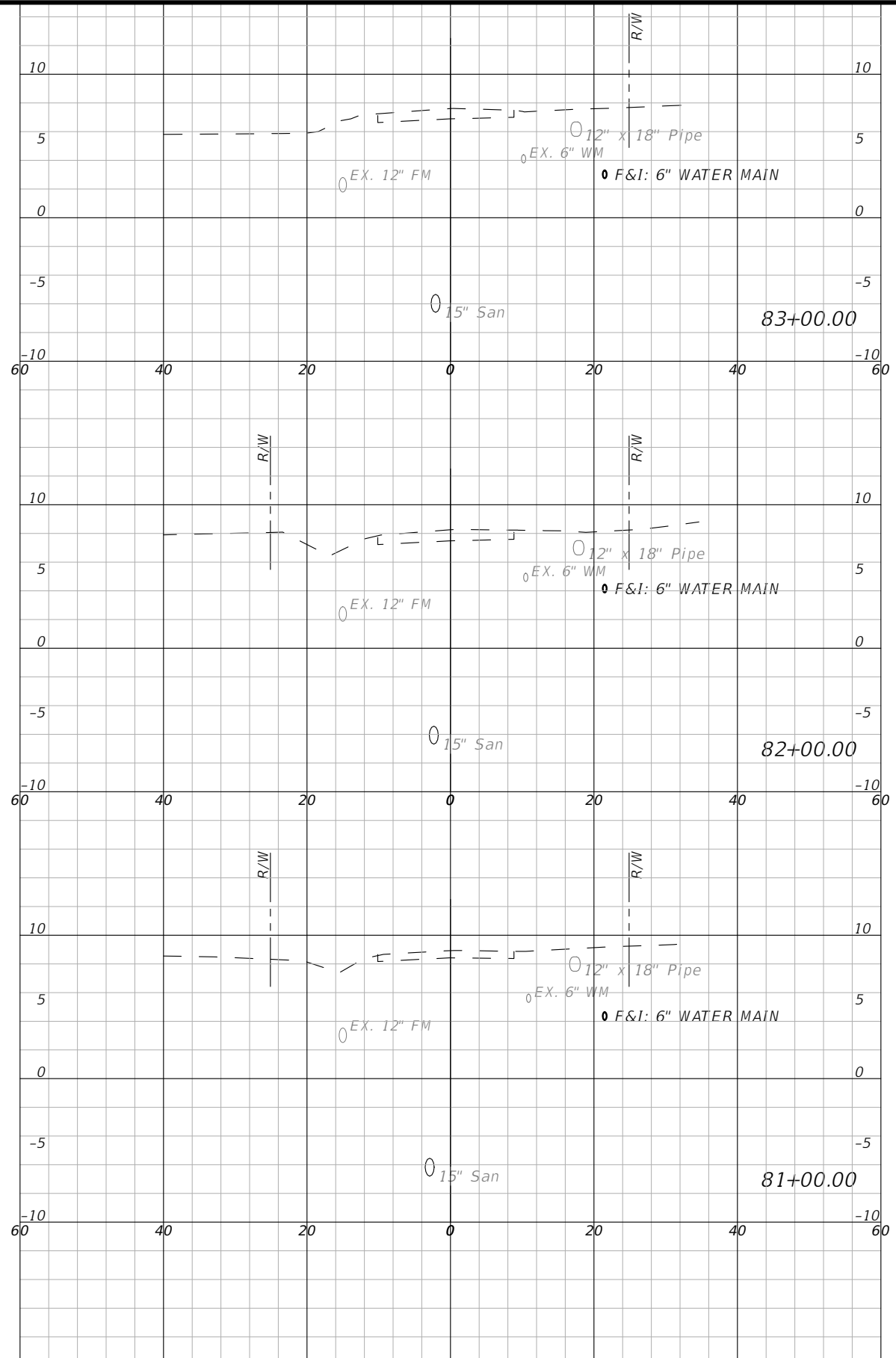


CROSS SECTIONS - 3RD AVE. W.

SHEET NO.
 77

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
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		DATE	
		REVISION	

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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

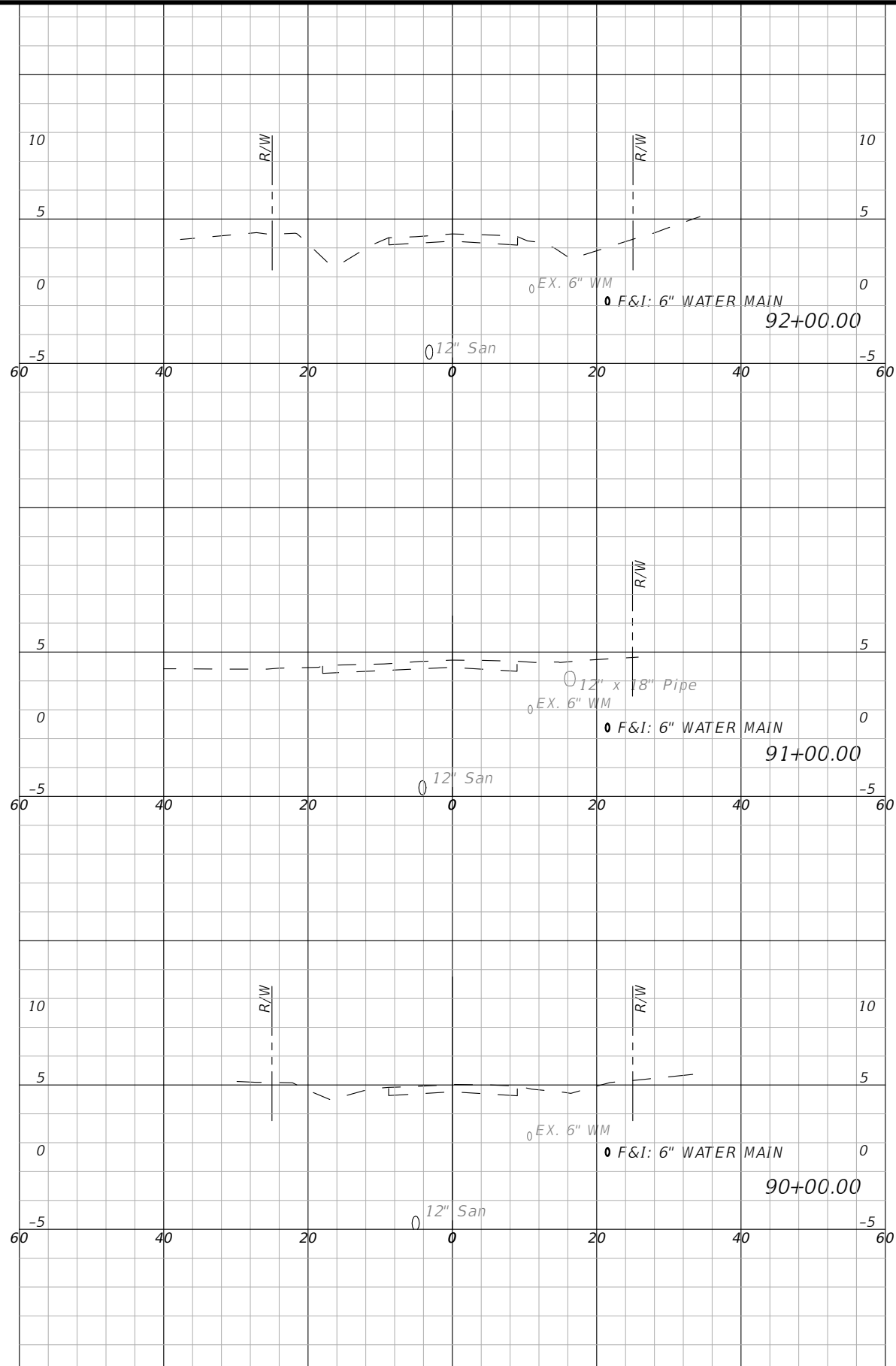
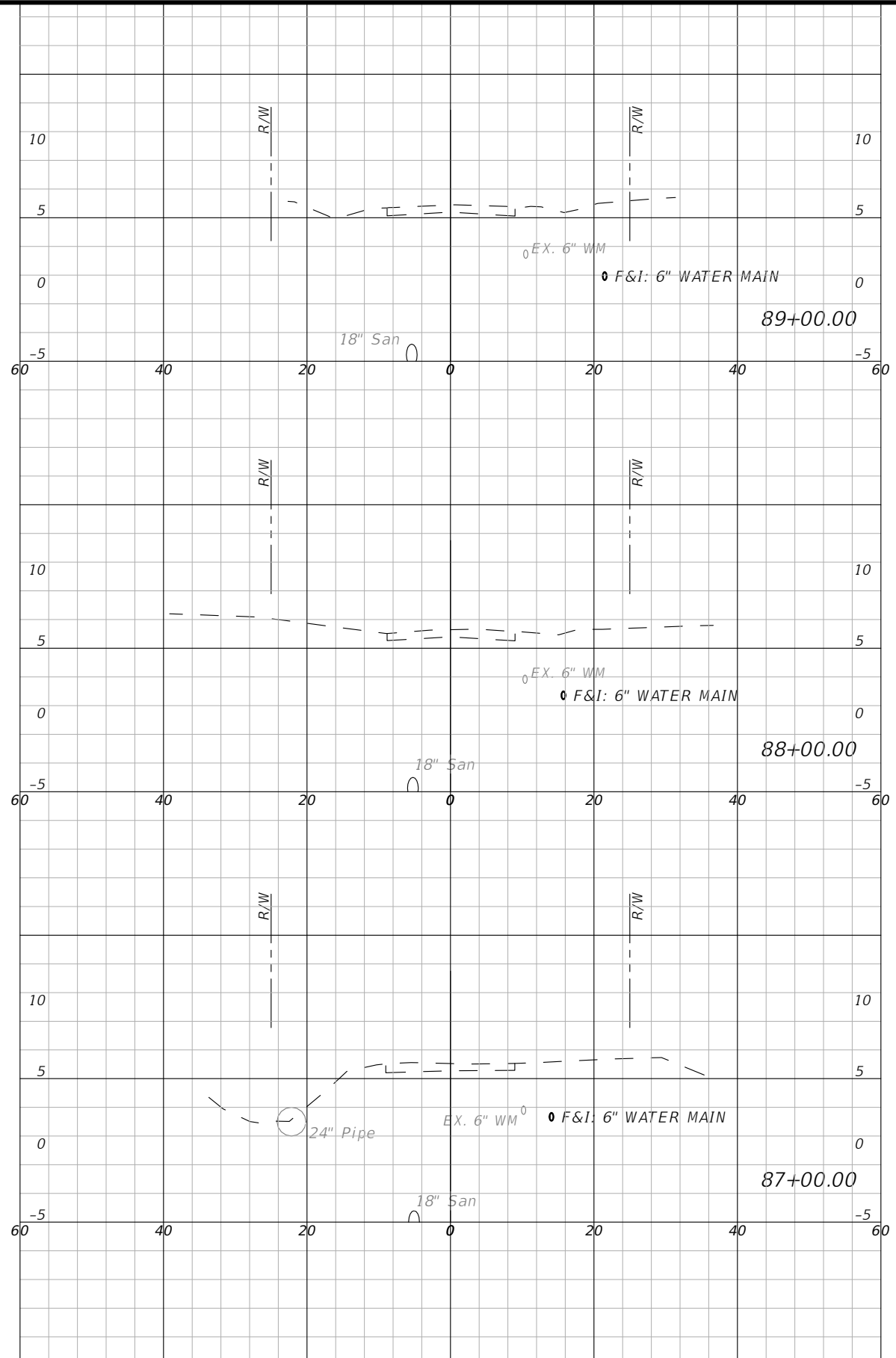


CROSS SECTIONS - 3RD AVE. W.

SHEET NO.
78

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

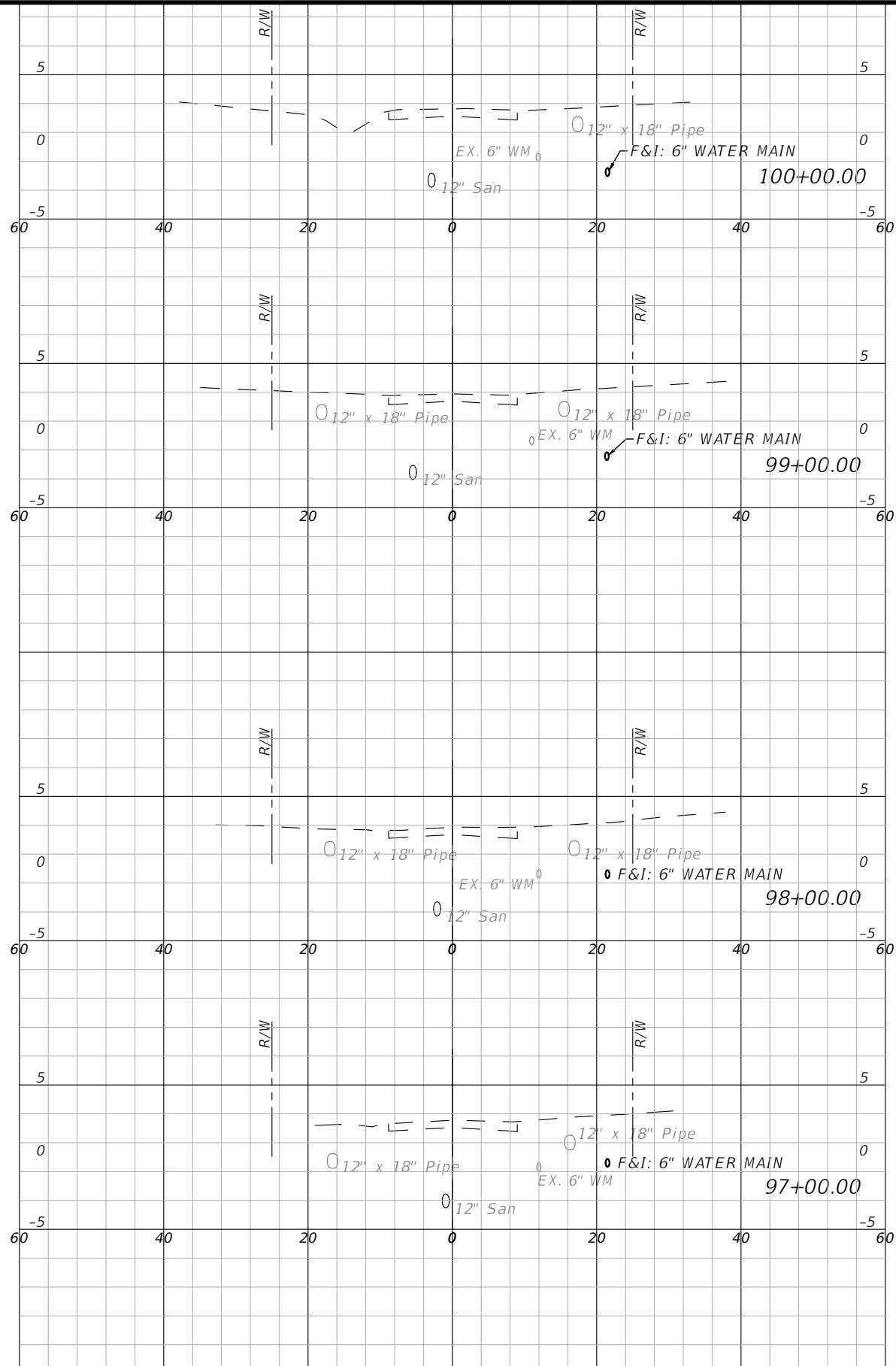
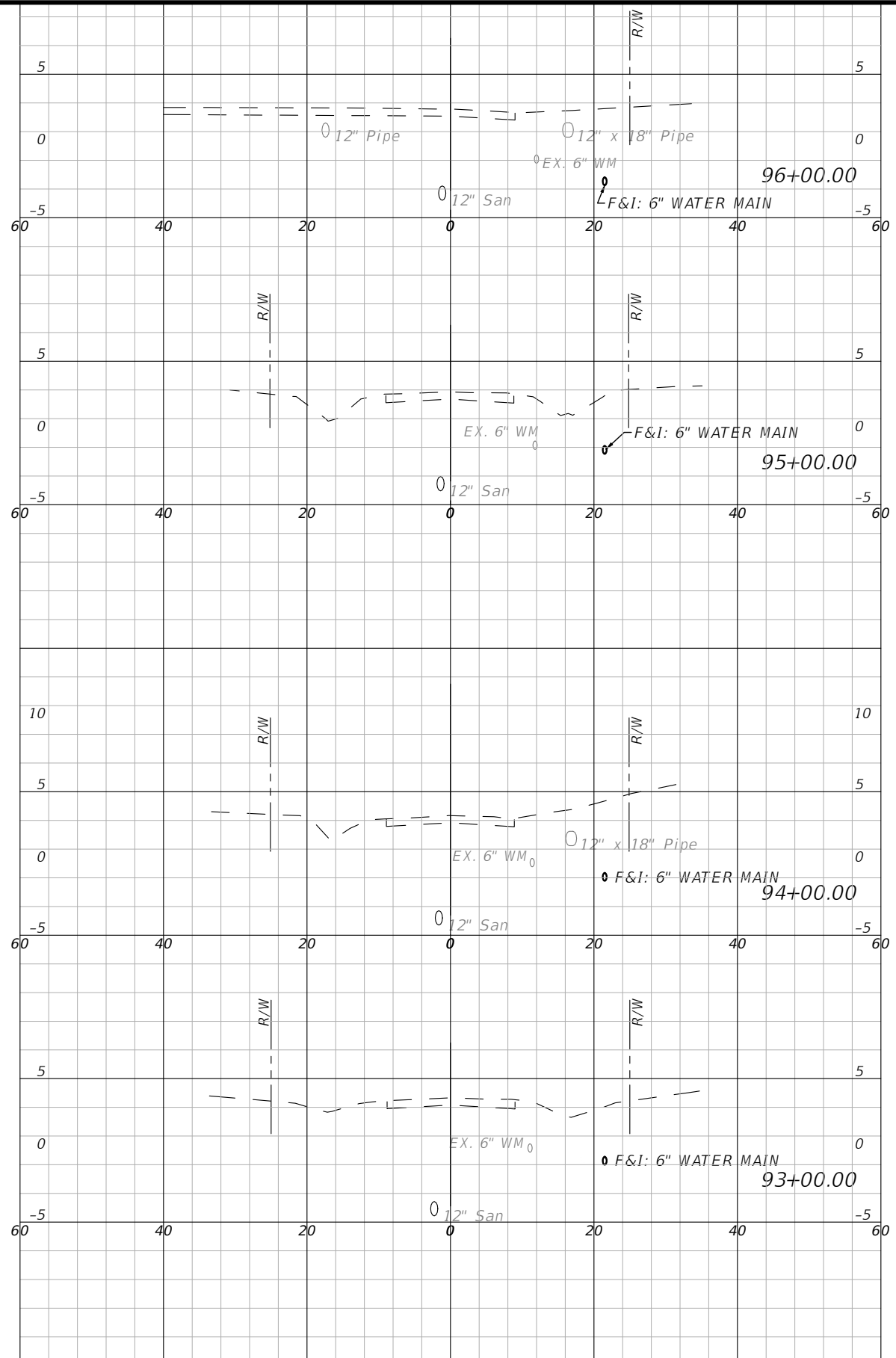


CROSS SECTIONS - 3RD AVE. W.

SHEET NO. **79**

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
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PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

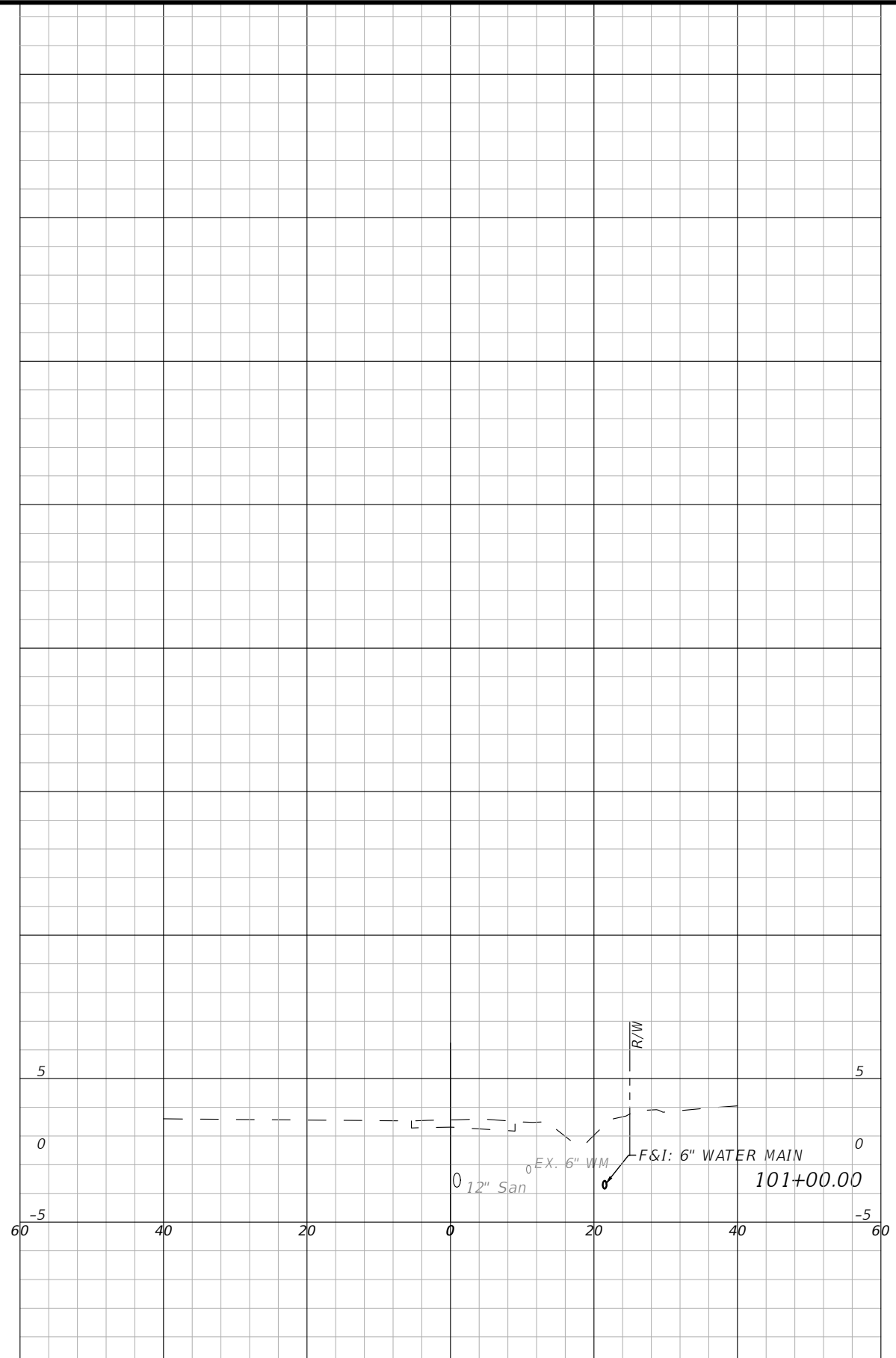


CROSS SECTIONS - 3RD AVE. W.

SHEET NO.
80

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1/8/2019
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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00	NO	DATE	REVISION
DR BY	AD	DATE	NOV 2019			
CHK BY	CKM					

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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

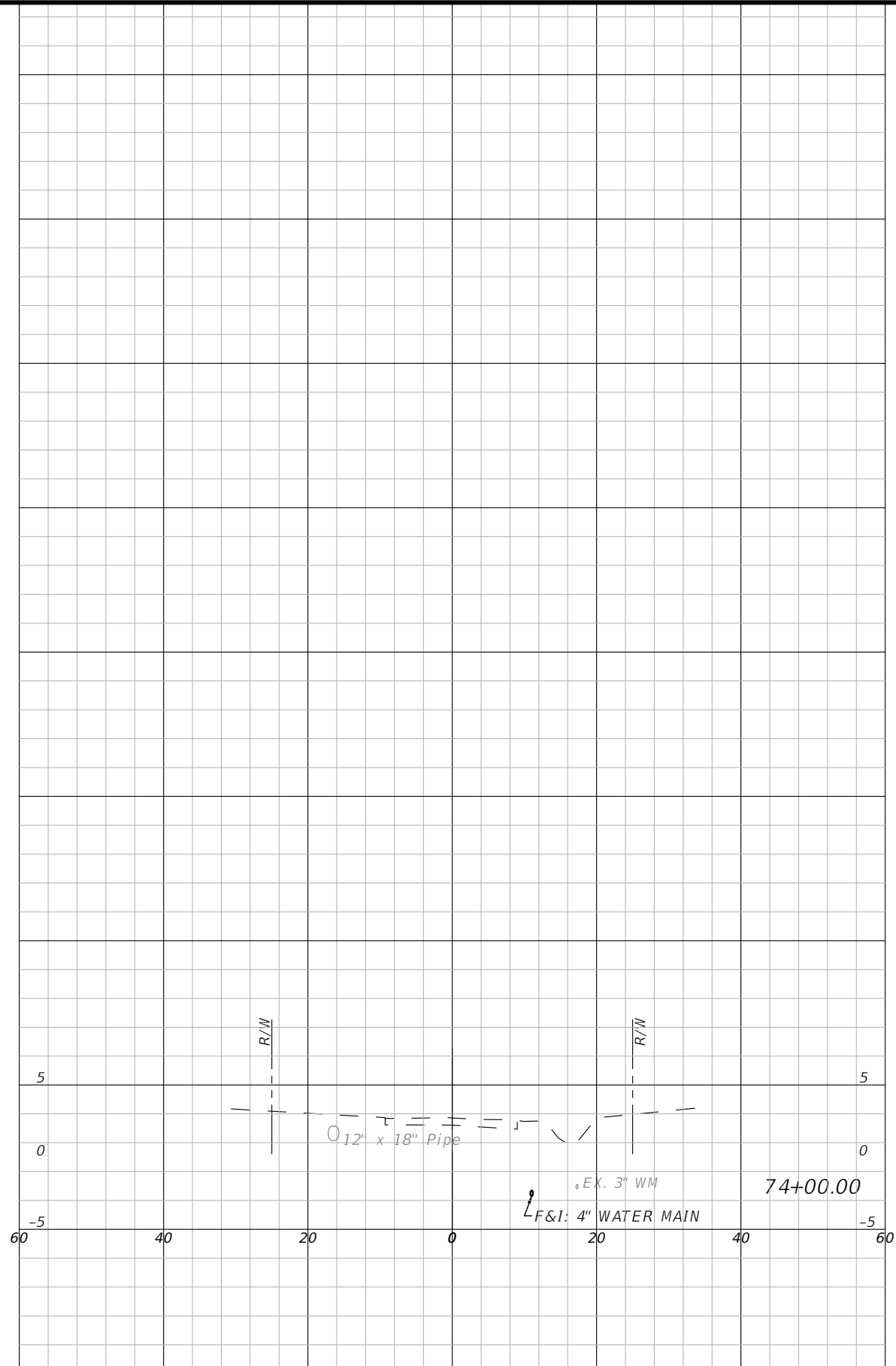
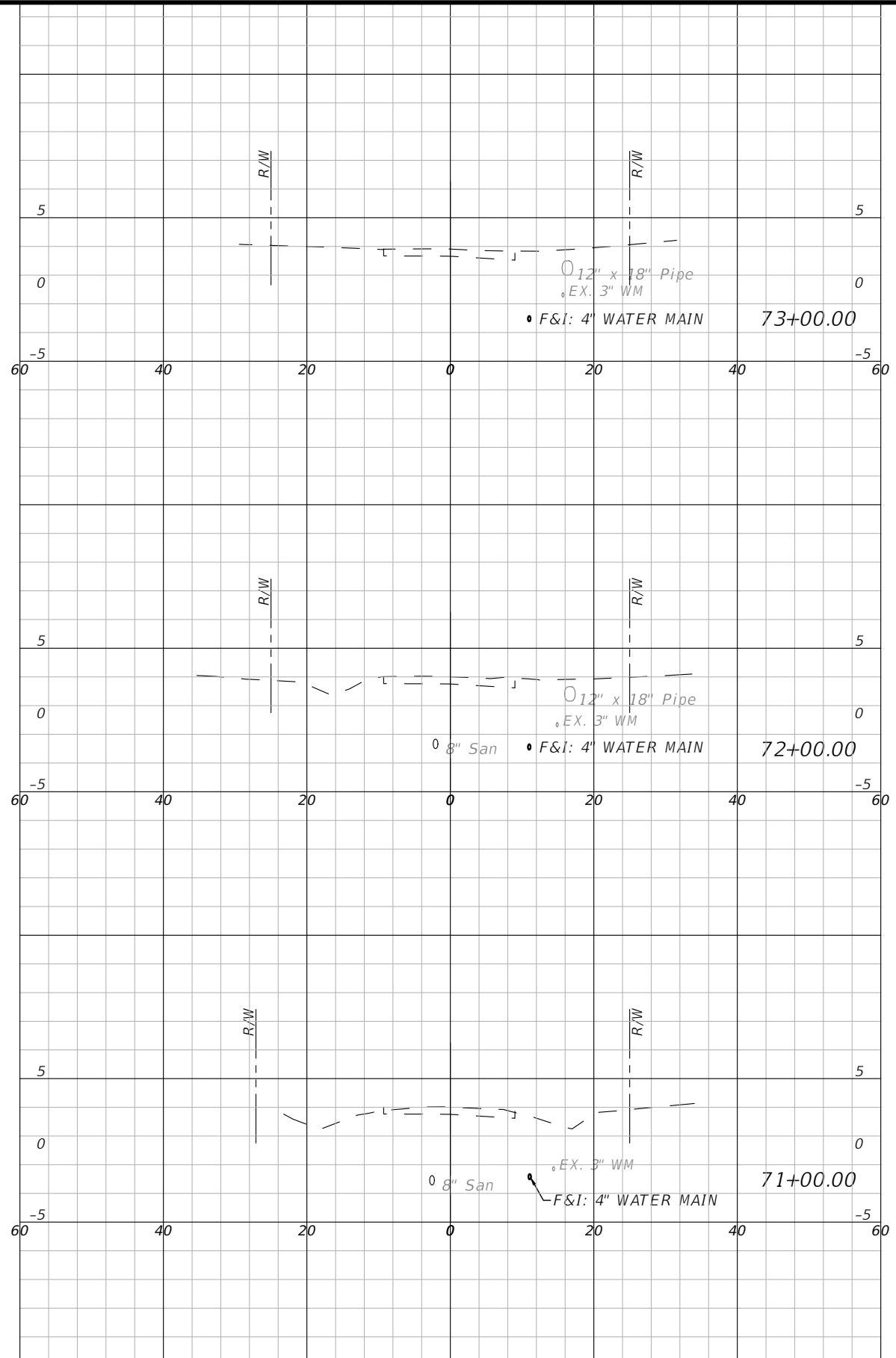


CROSS SECTIONS - 3RD AVE. W.

SHEET NO.
81

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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1" = 20' Horizontal
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PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

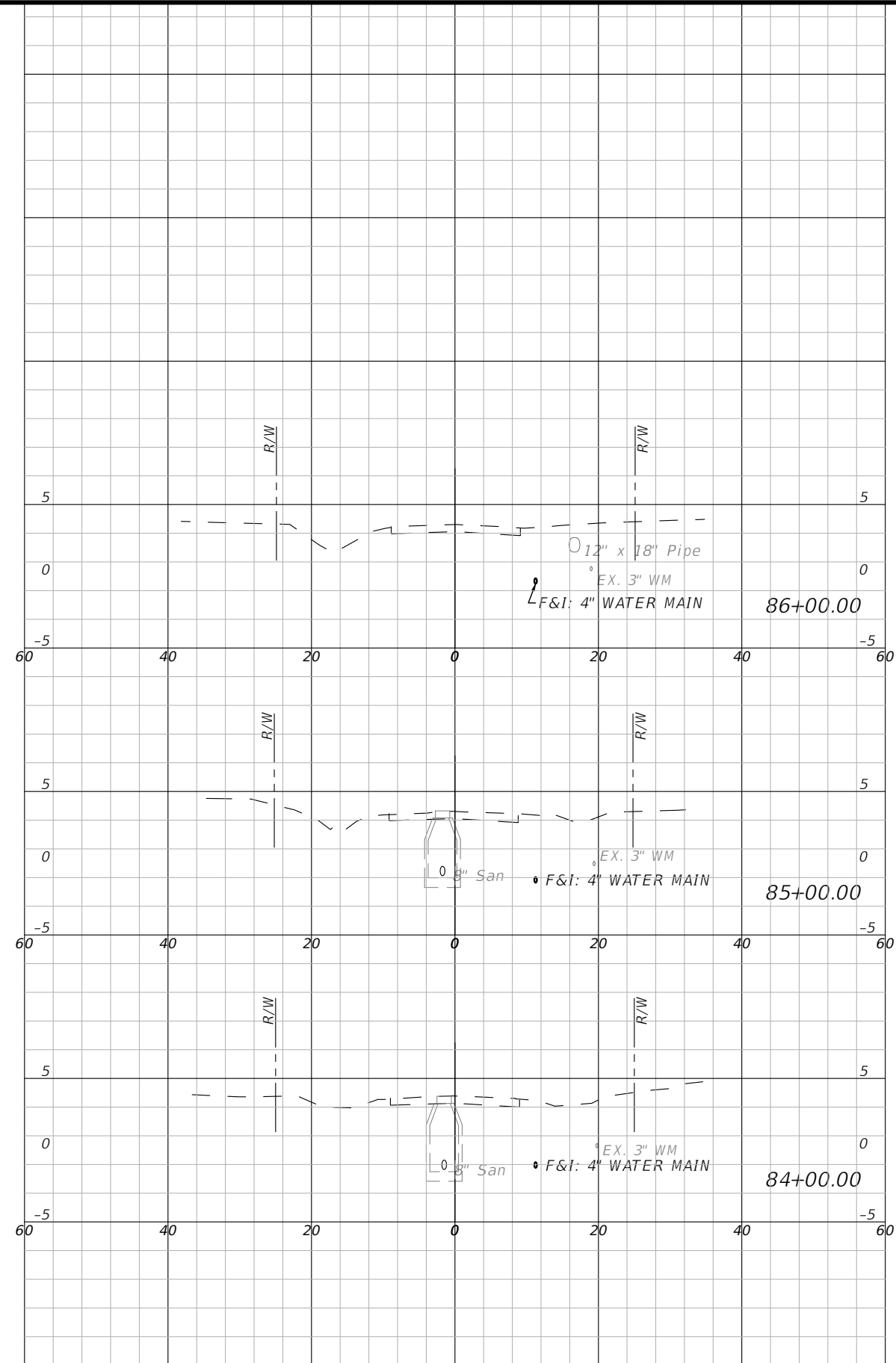
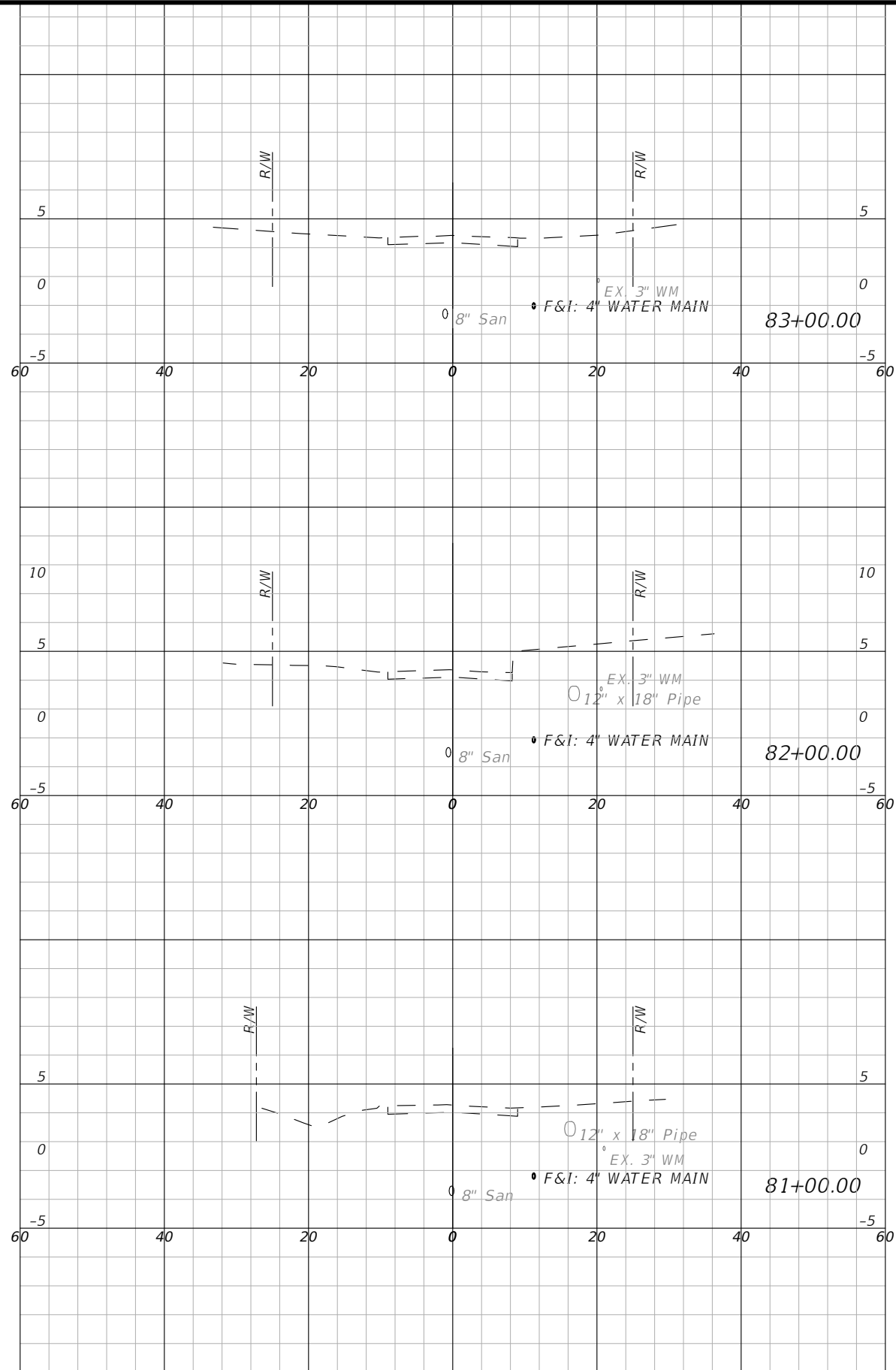


CROSS SECTIONS - 53RD ST. W.

SHEET NO.
 82

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1/18/2019
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1" = 20' Horizontal
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DES BY	CKM	PROJ NO	66-0172-00
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		REVISION	

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PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

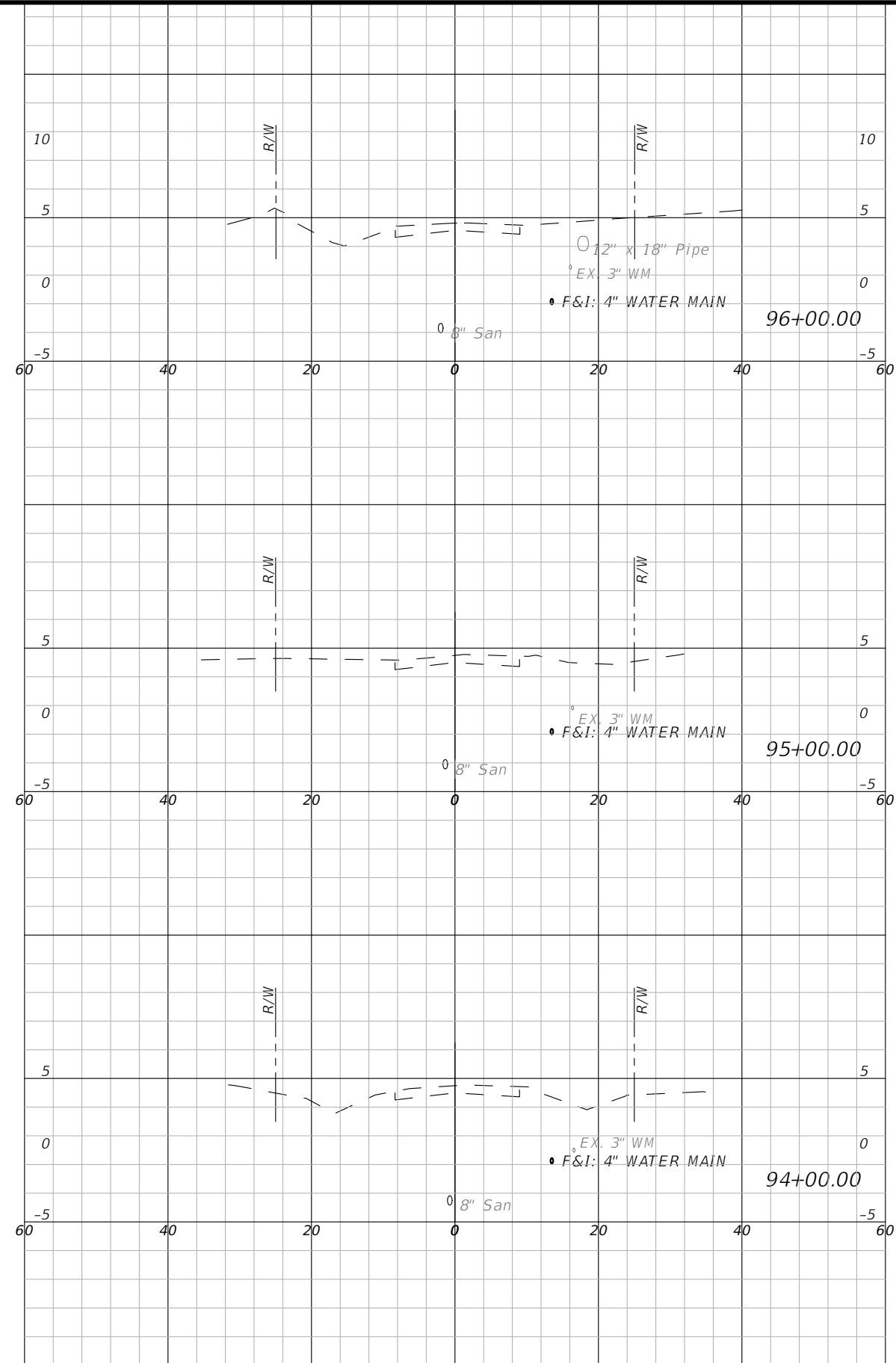
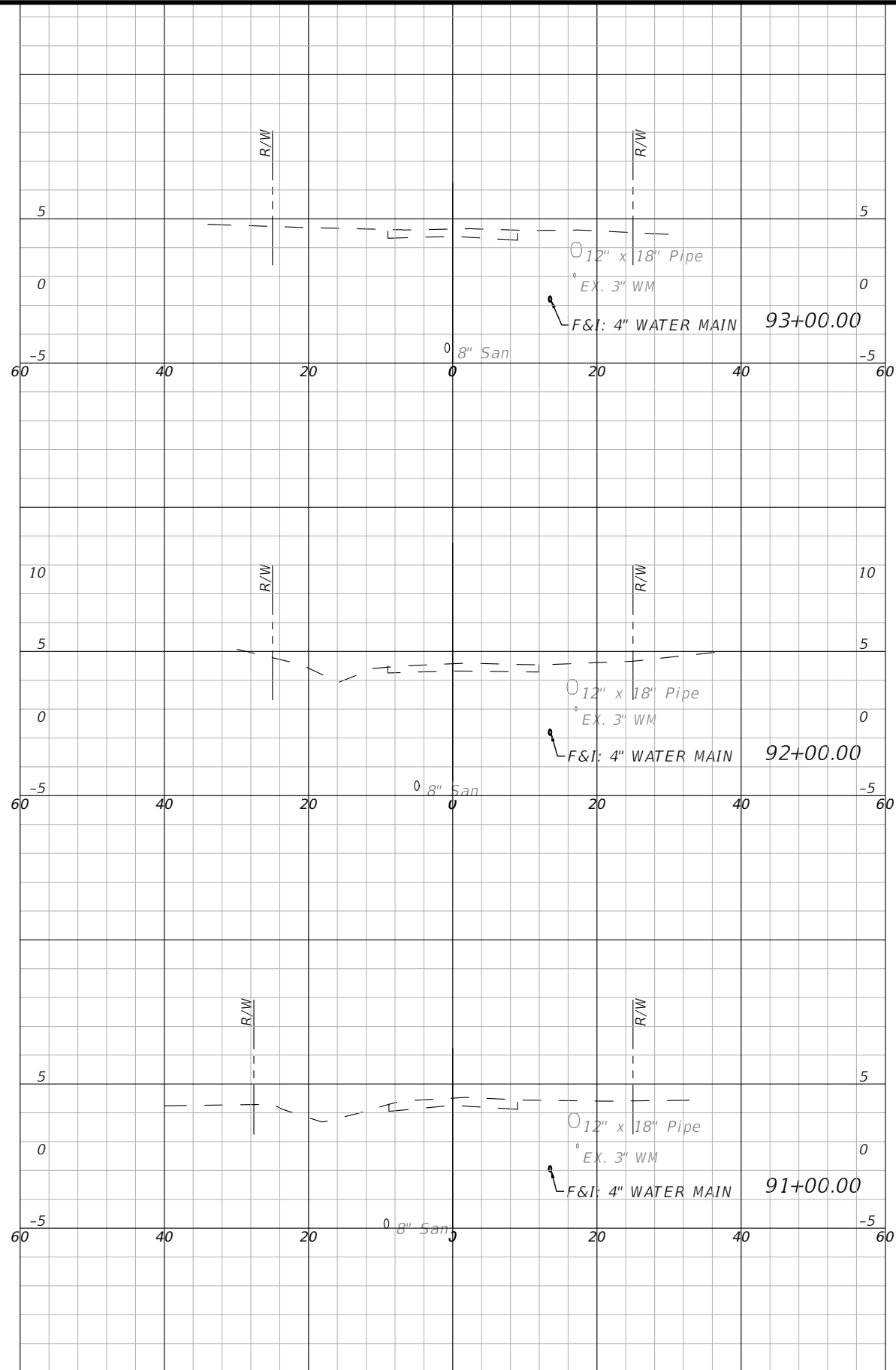


CROSS SECTIONS - 52ND ST. W.

SHEET NO.
83

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1/18/2019
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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

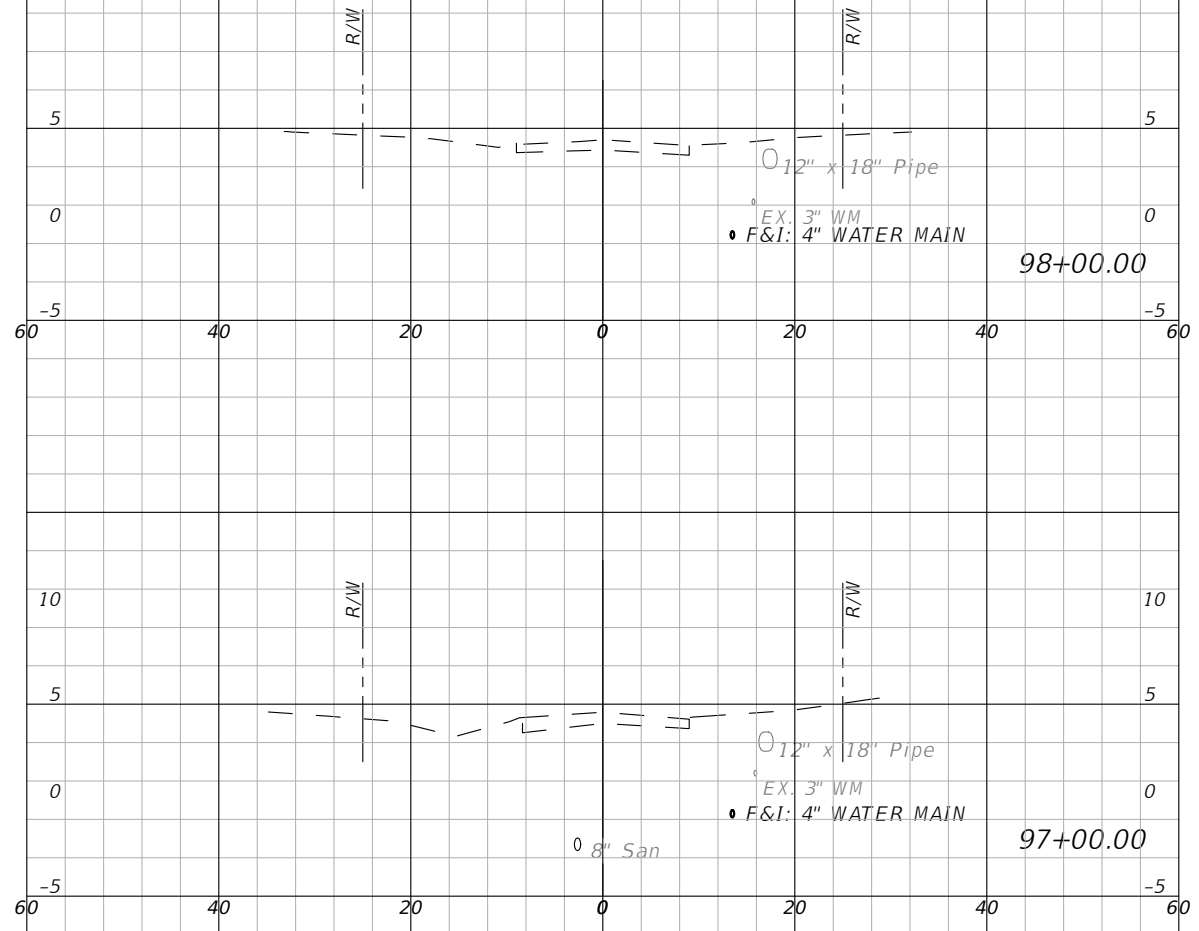


CROSS SECTIONS - 51ST ST. CT. W.

SHEET NO.
84

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
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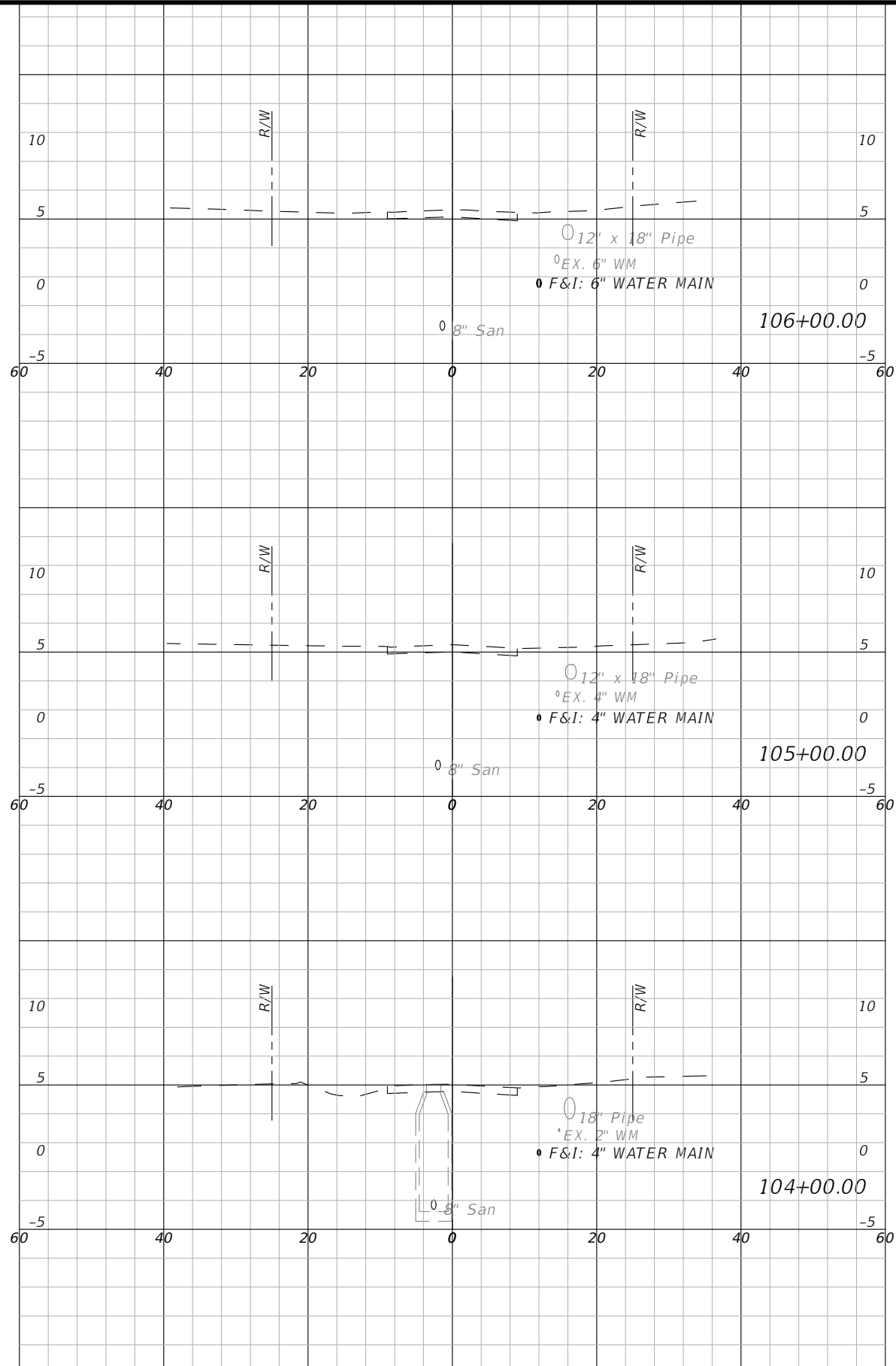
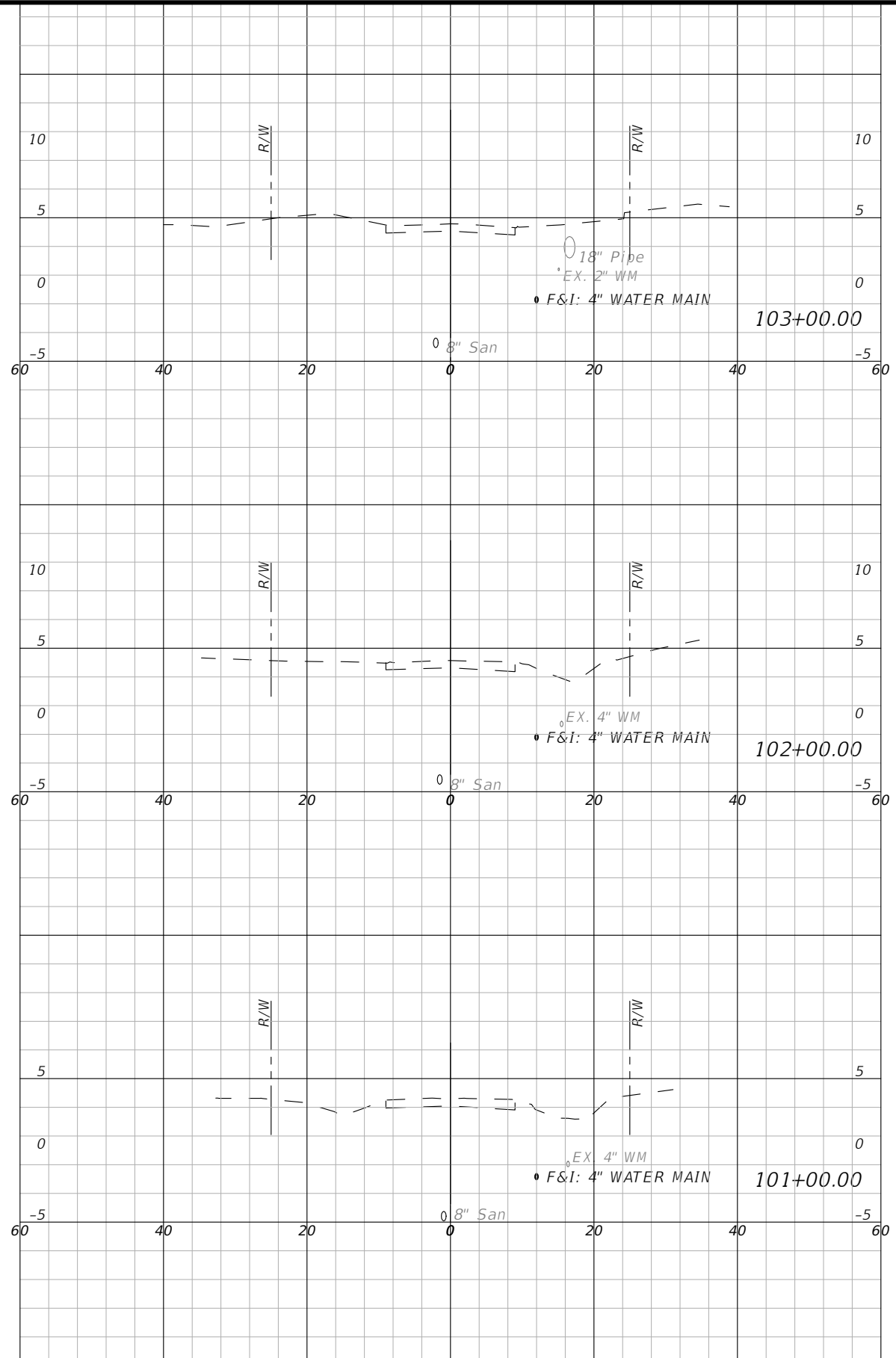
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CROSS SECTIONS - 51ST ST. CT. W.
 SHEET NO. 85

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

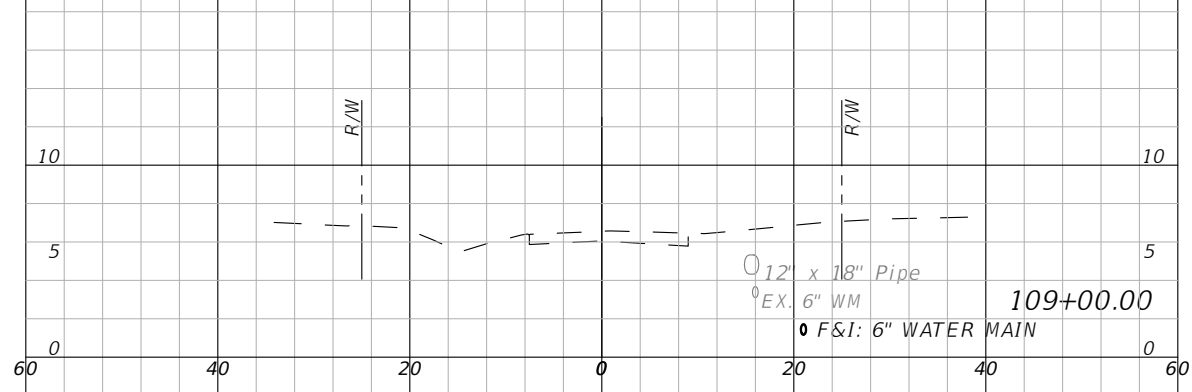
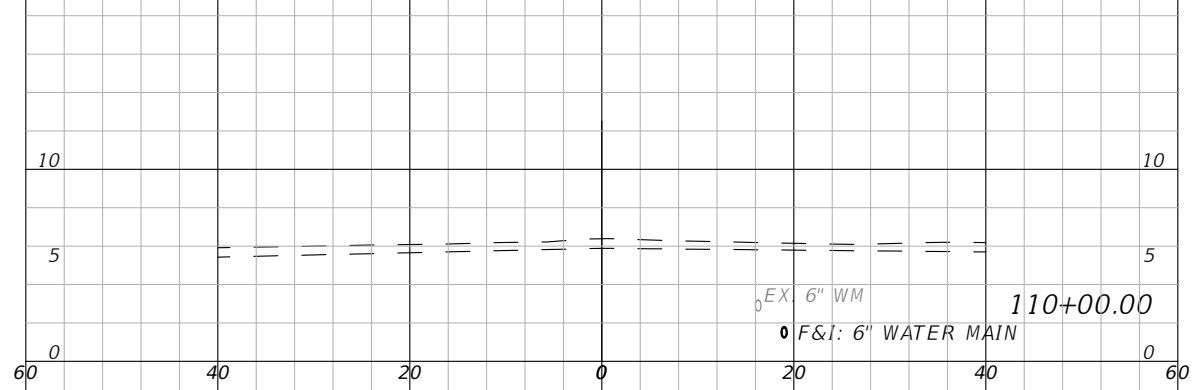
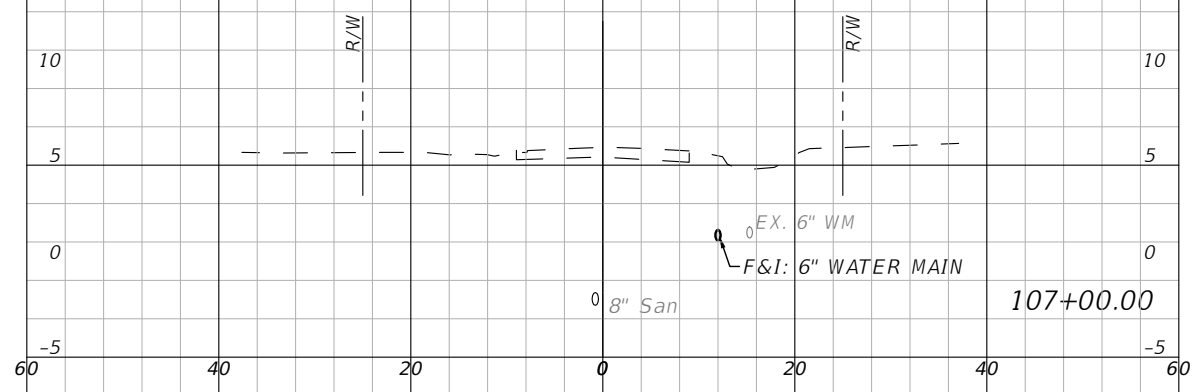
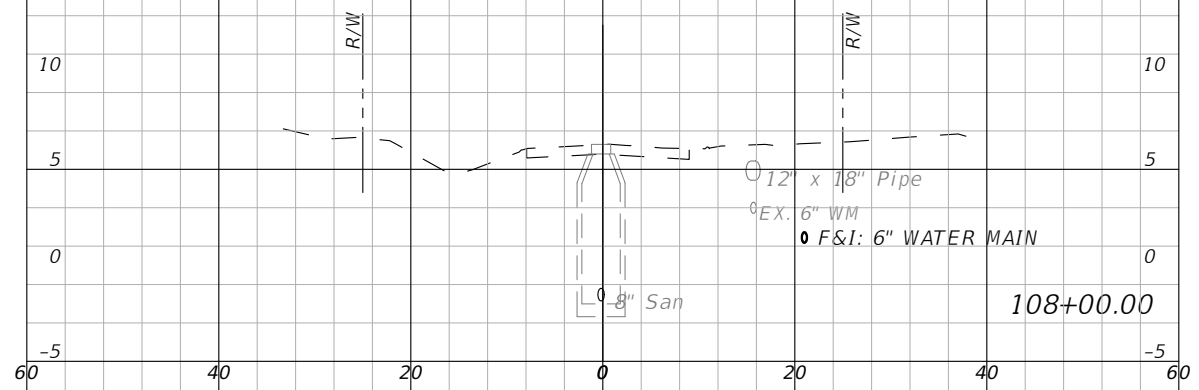


CROSS SECTIONS - 51ST ST. W.

SHEET NO.
86

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1" = 20' Horizontal
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DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

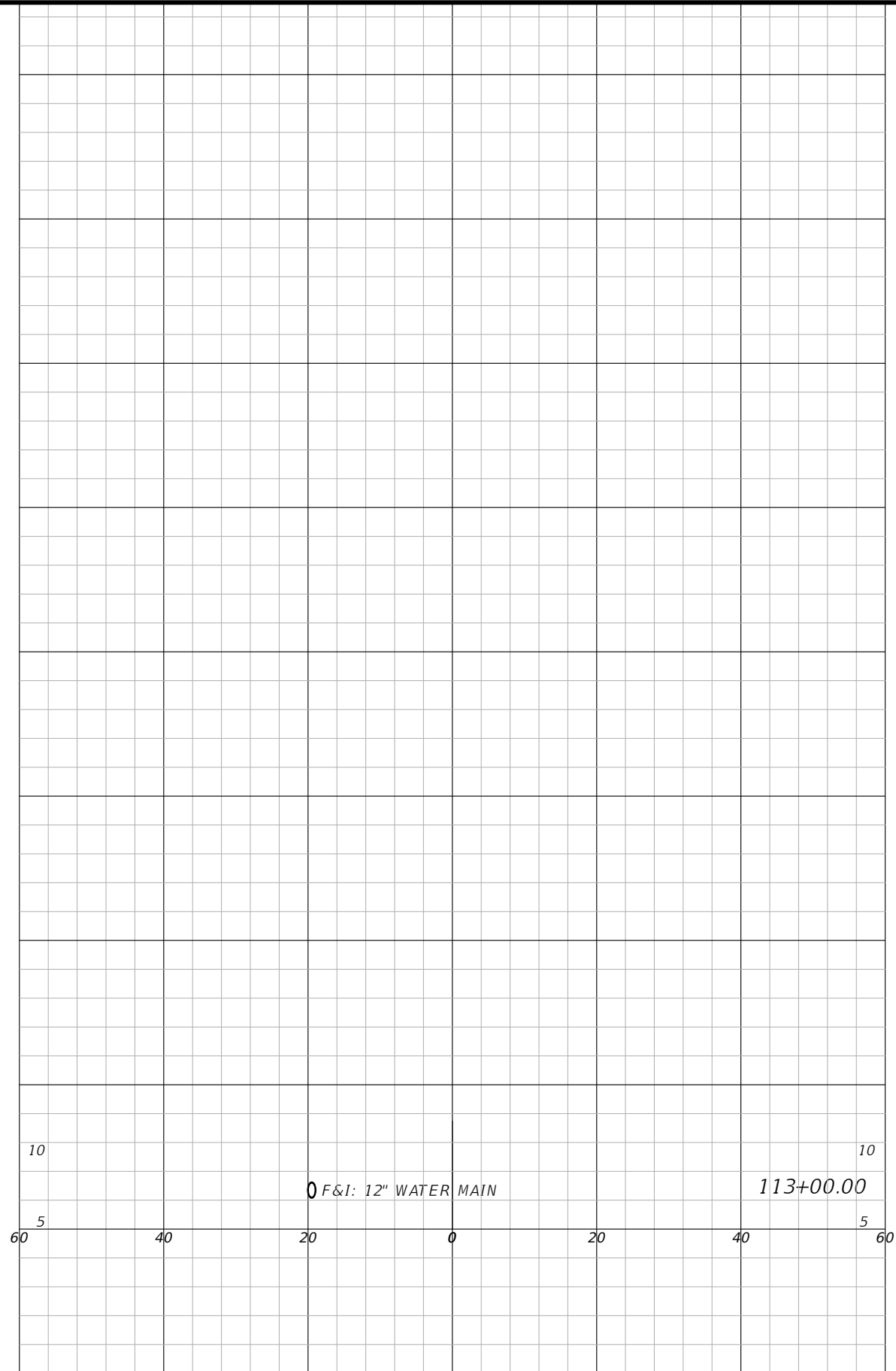
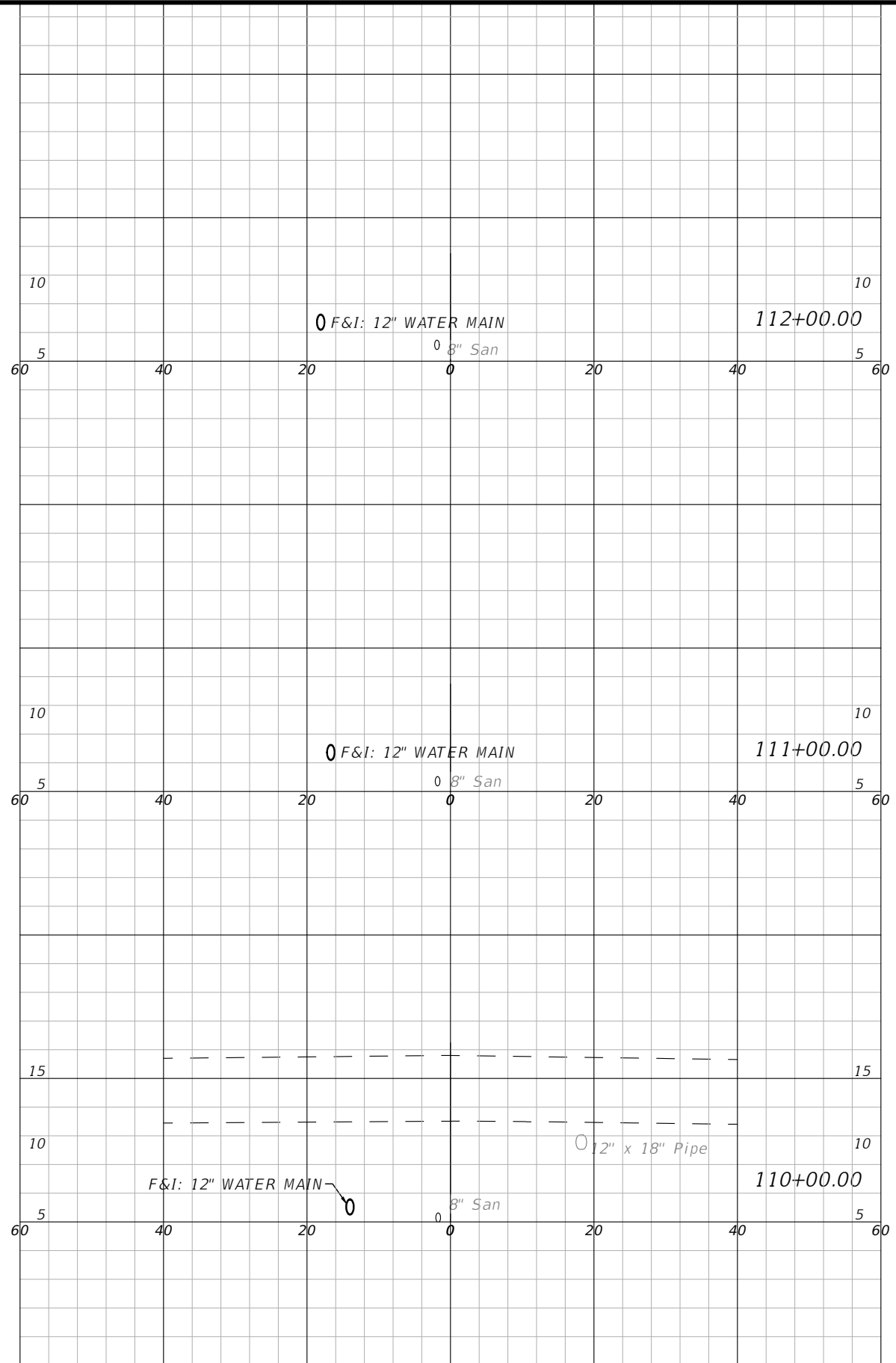


CROSS SECTIONS - 51ST ST. W.

SHEET NO.
87

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO			
DR BY	AD	66-0172-00			
CHK BY	CKM	DATE	NOV 2019	NO	DATE
					REVISION

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

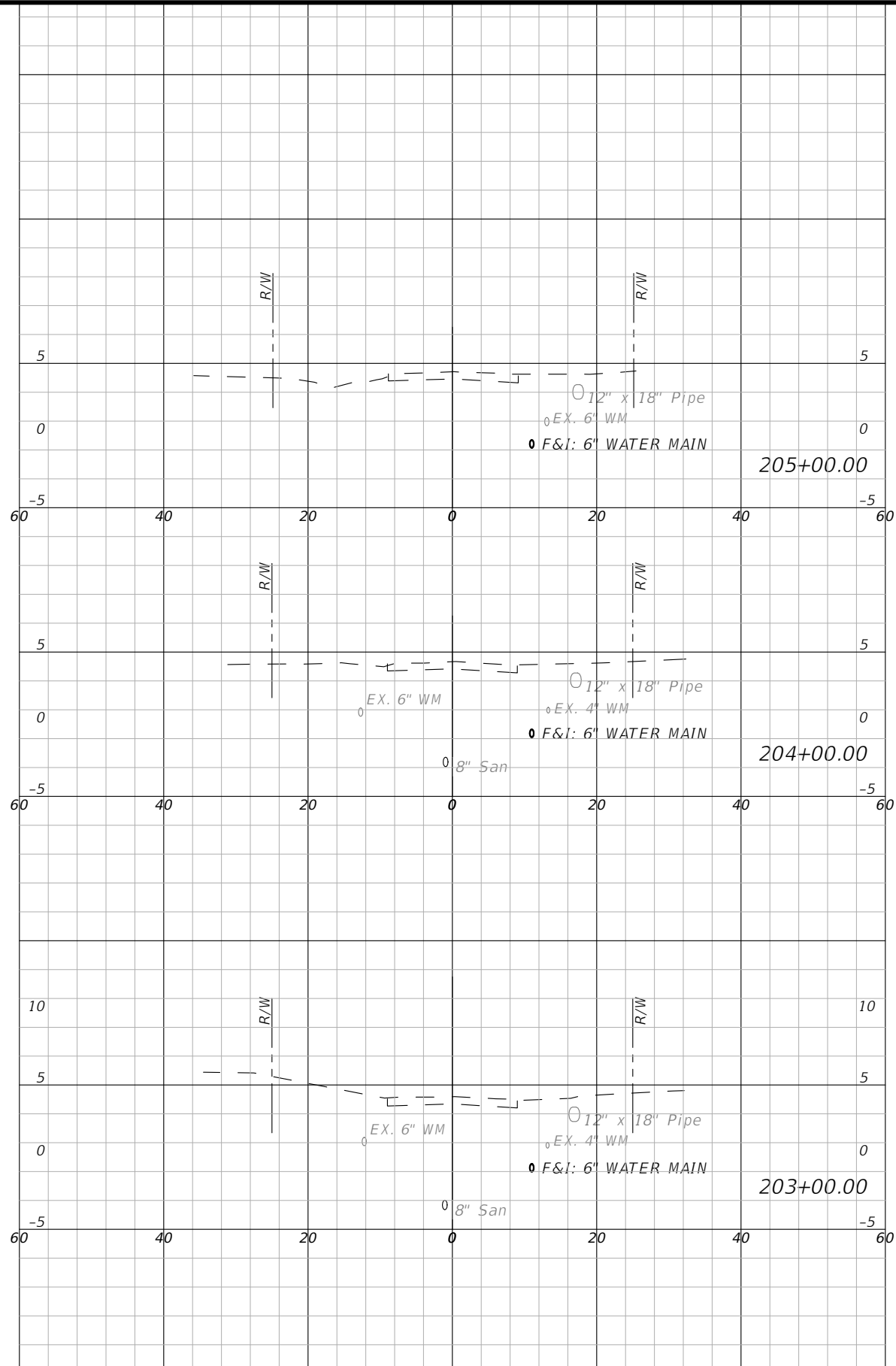
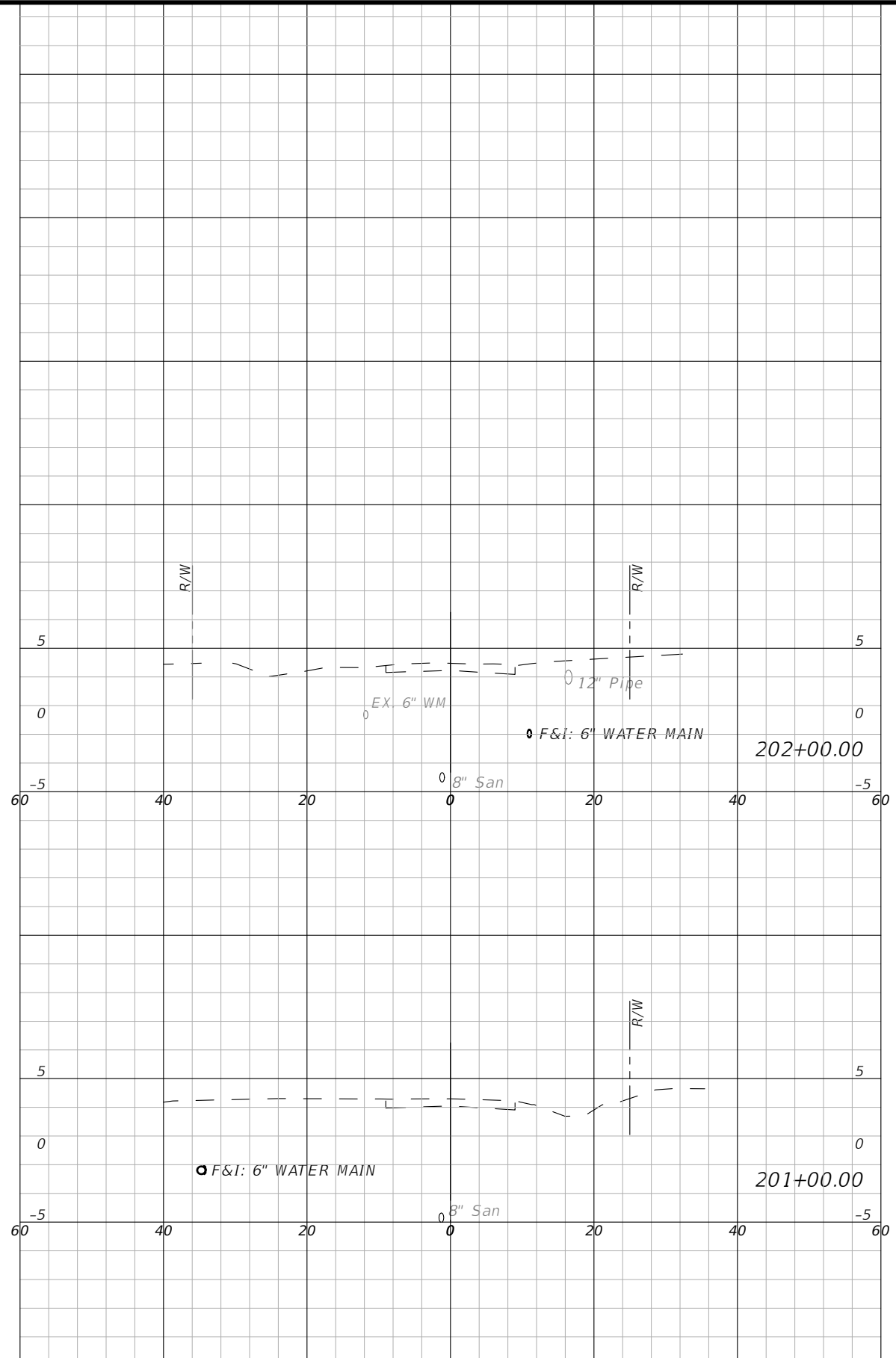


CROSS SECTIONS - 45TH ST. CT. W.

SHEET NO.
88

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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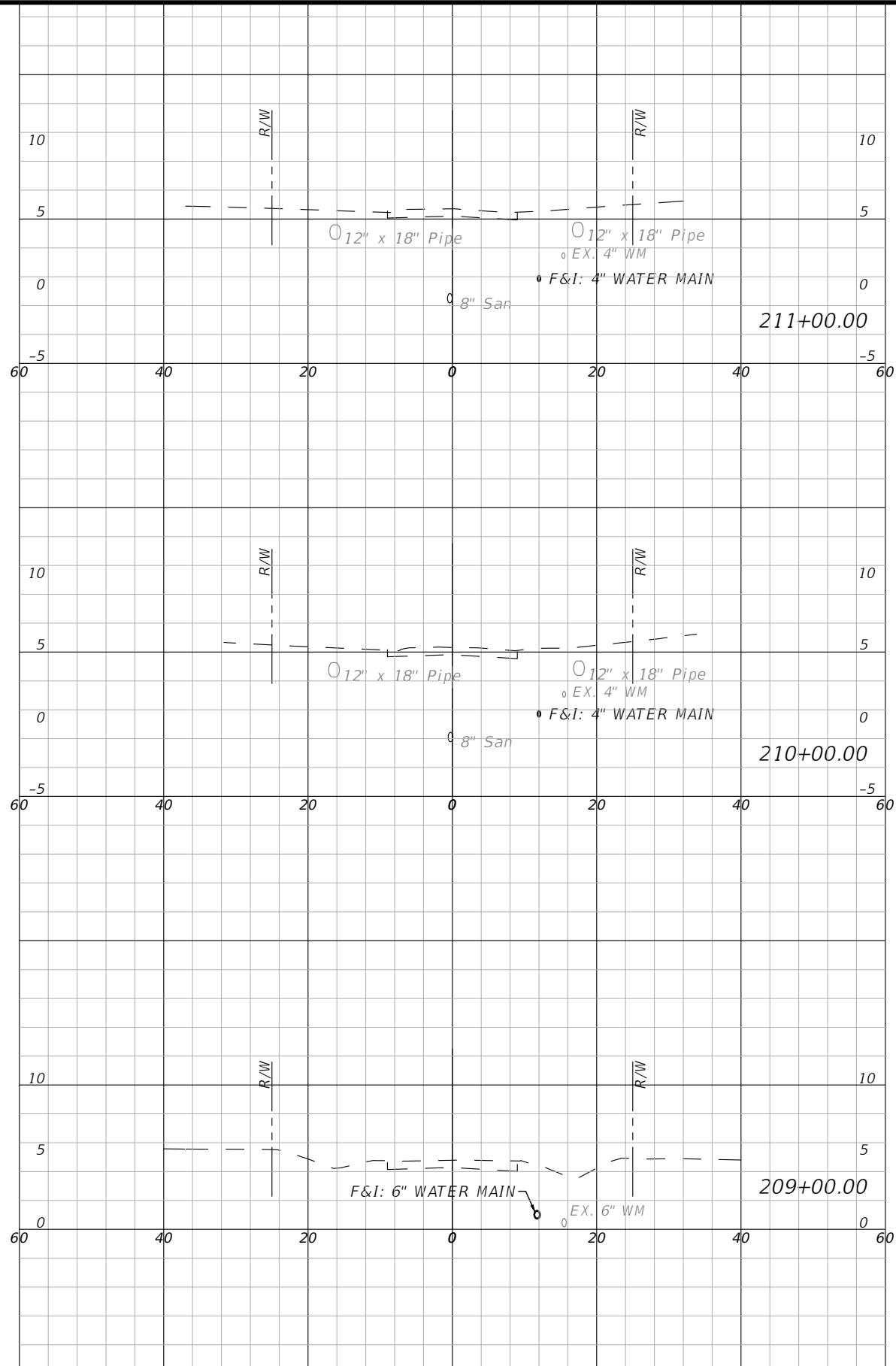
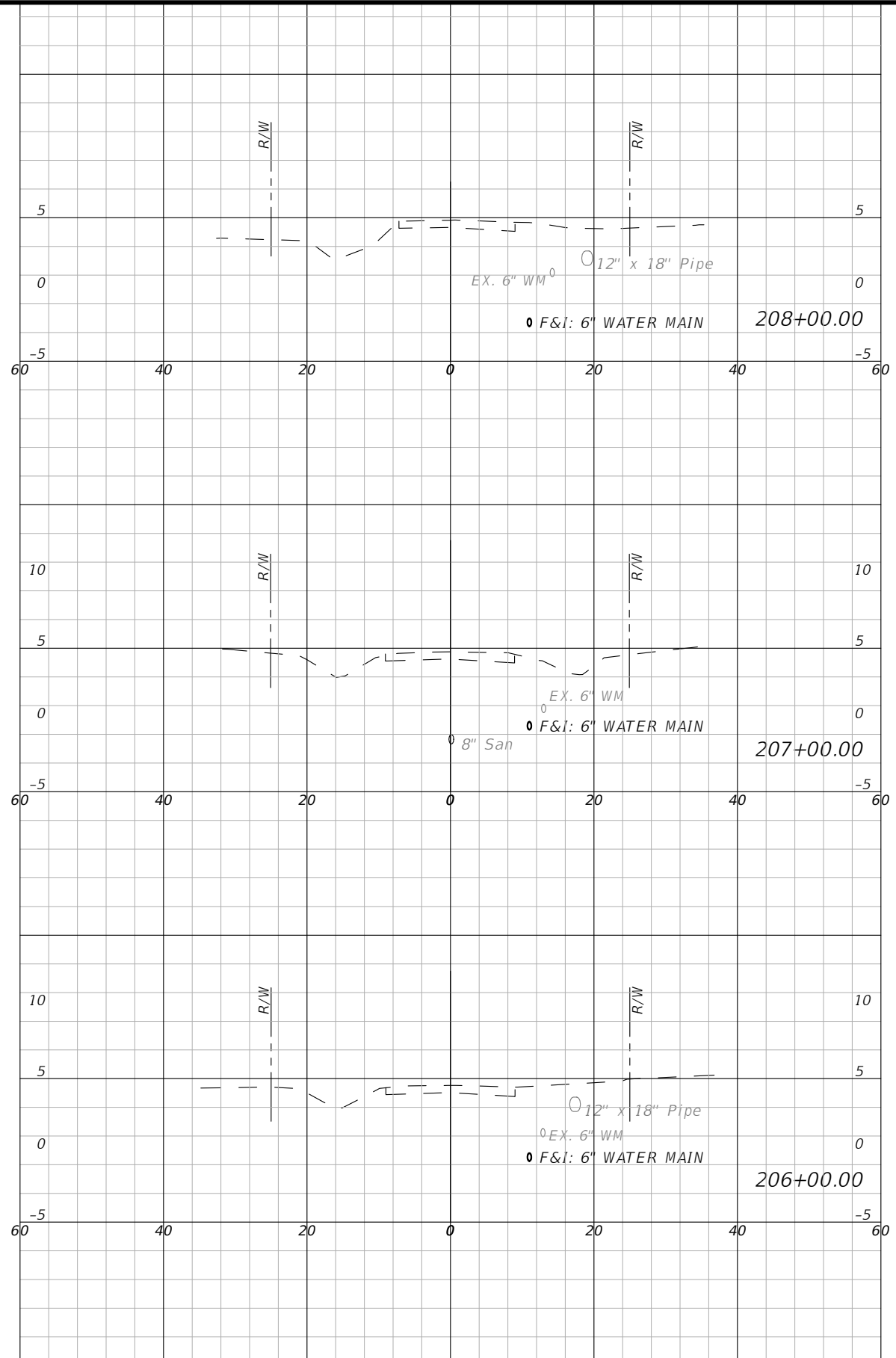
PALMETTO POINT WATER MAIN REPLACEMENT
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CROSS SECTIONS - 48TH ST. CT. W.
 SHEET NO. 89

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	
		DATE	
		REVISION	

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

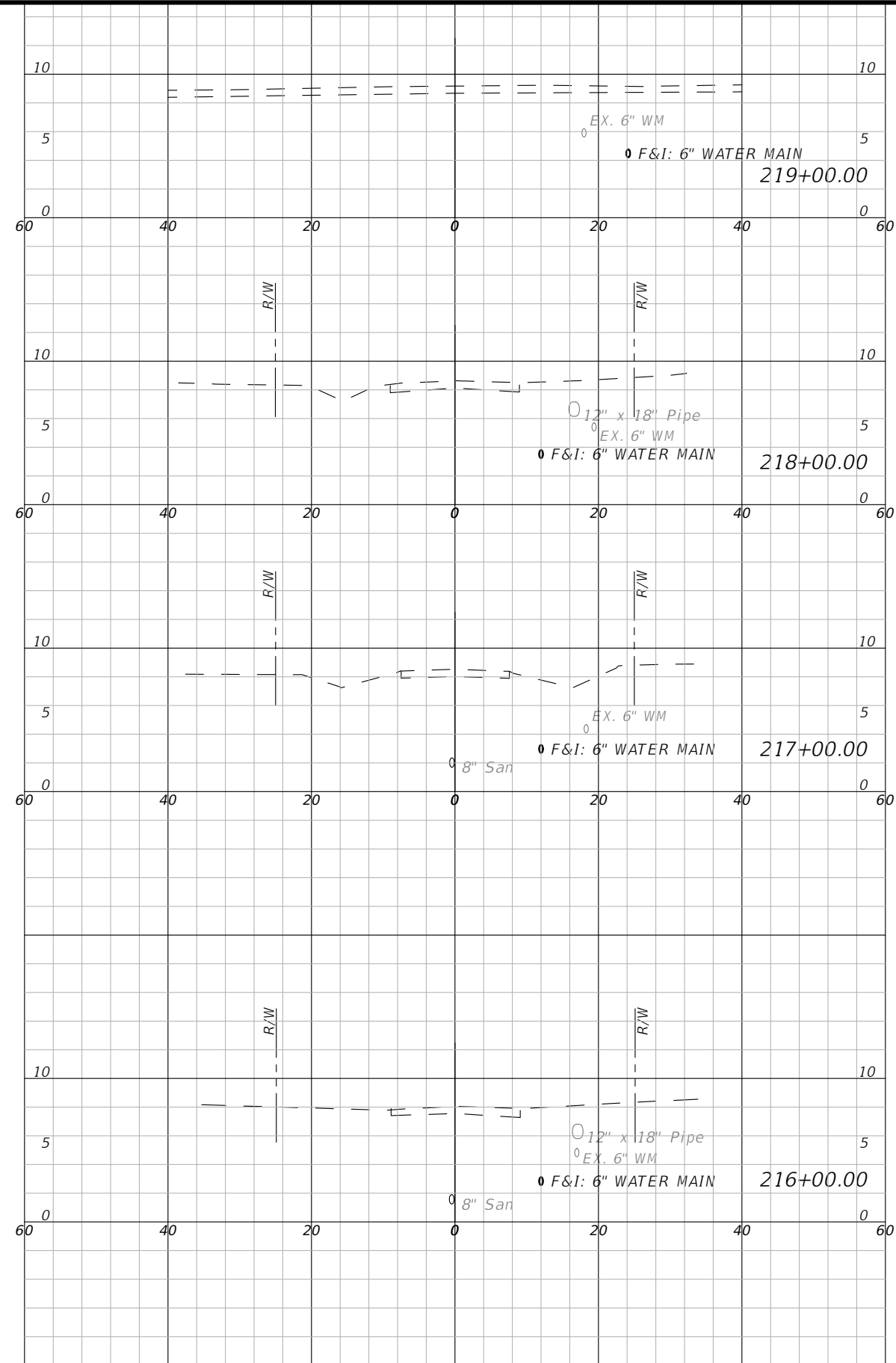
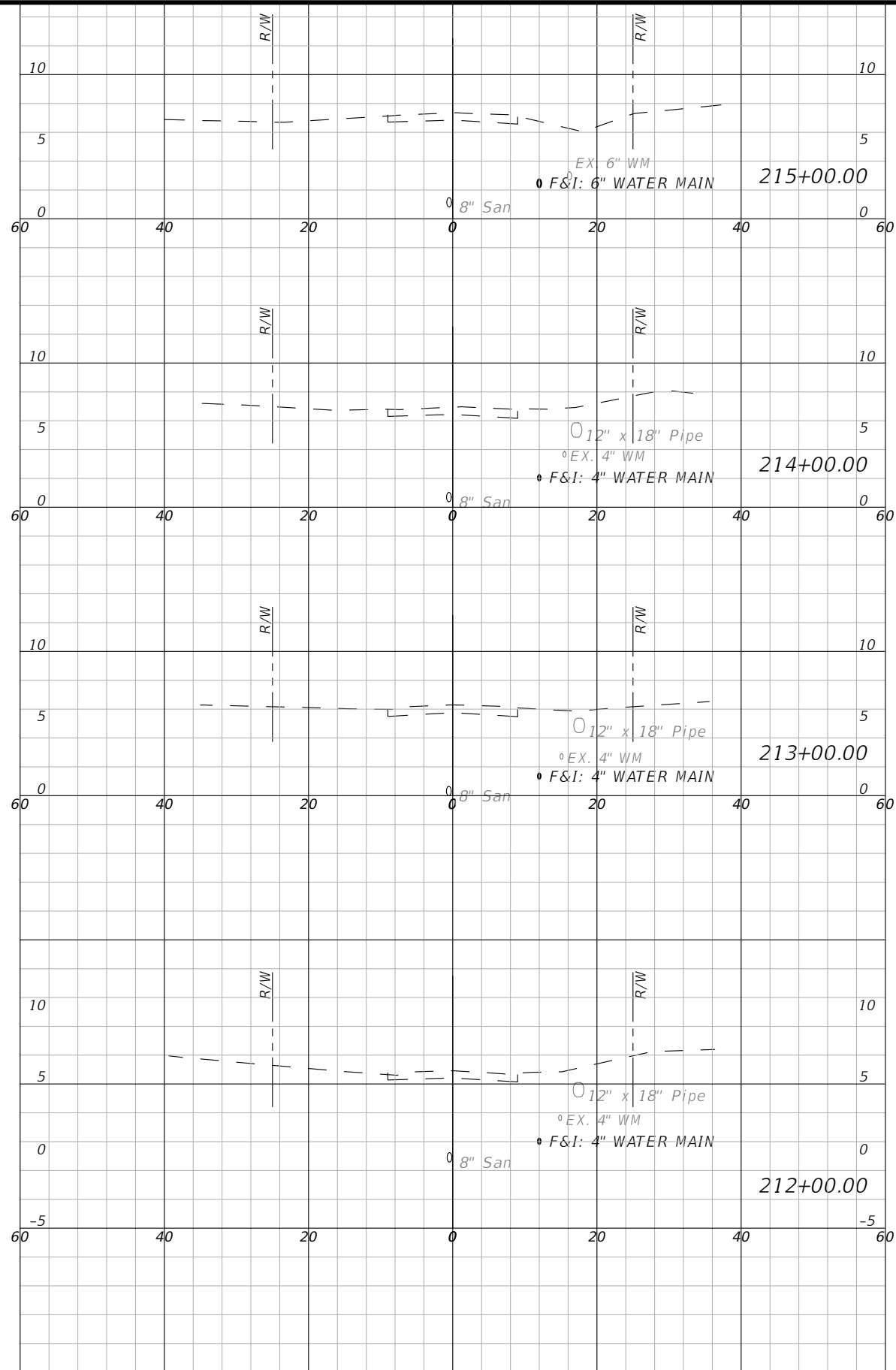


CROSS SECTIONS - 48TH ST. CT. W.

SHEET NO.
90

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1" = 20' Horizontal
 1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

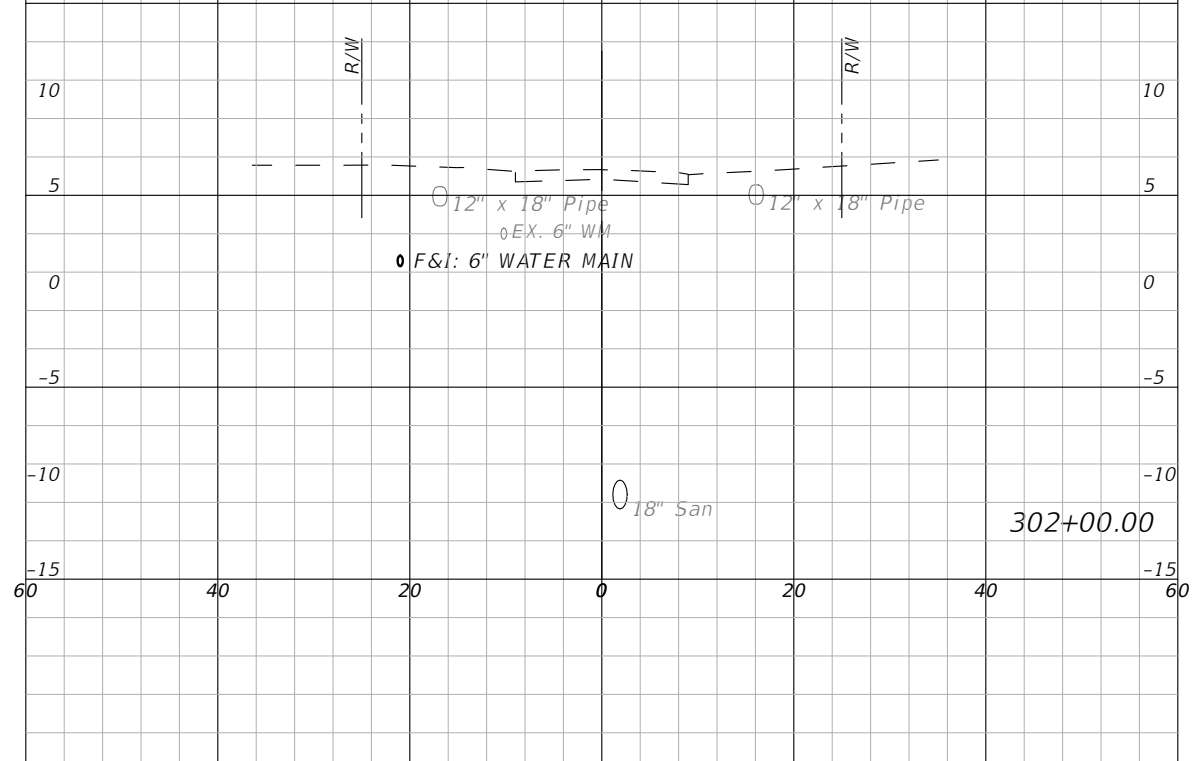
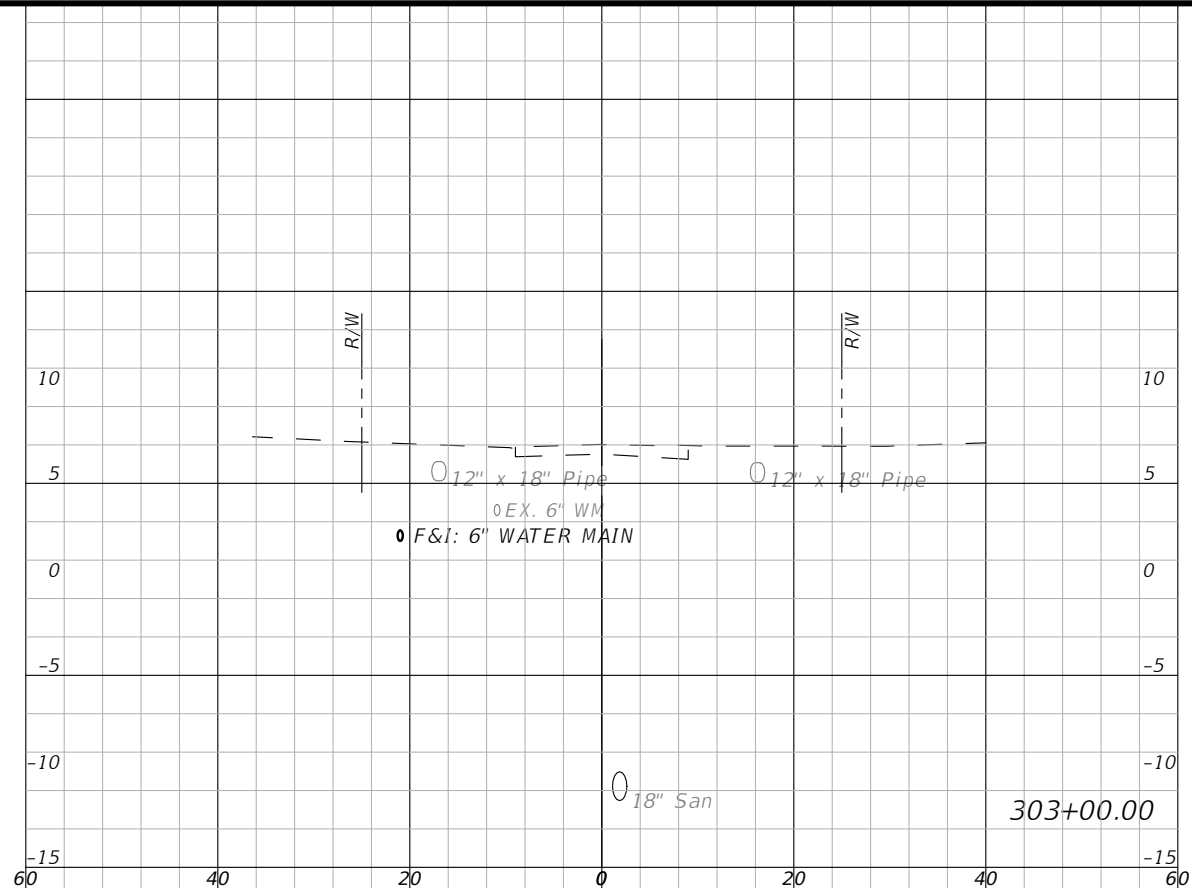
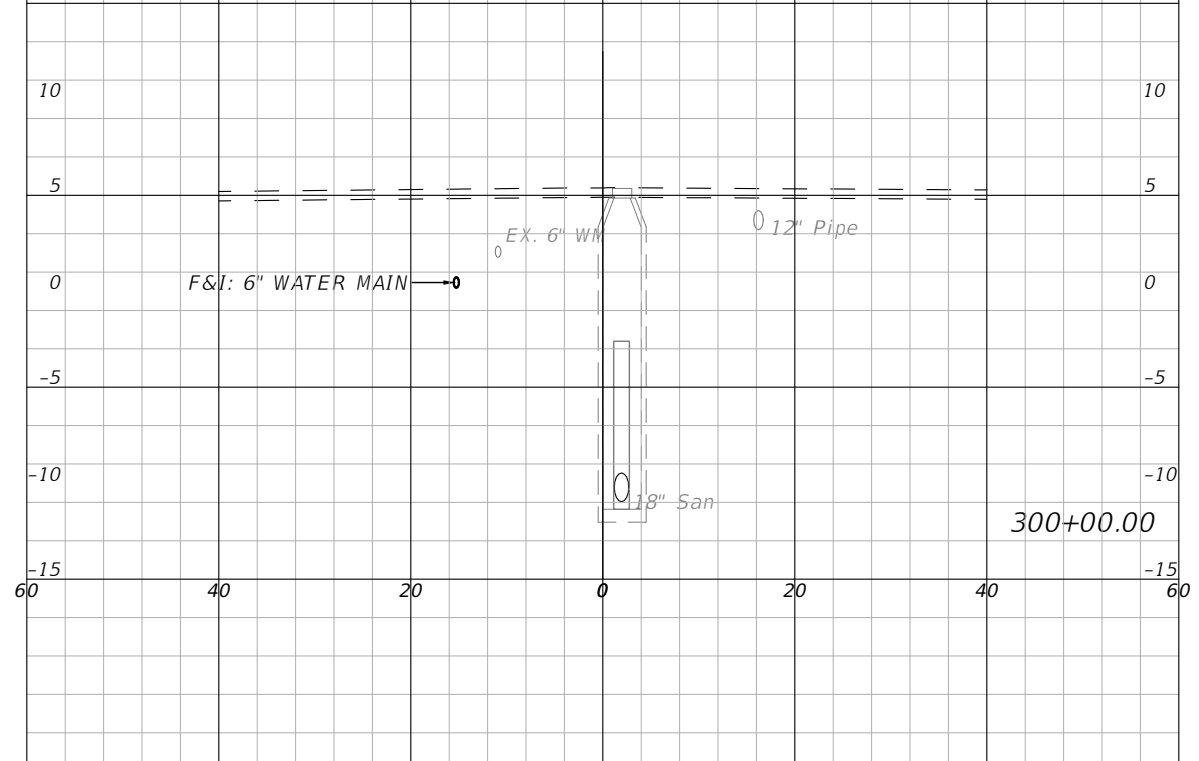
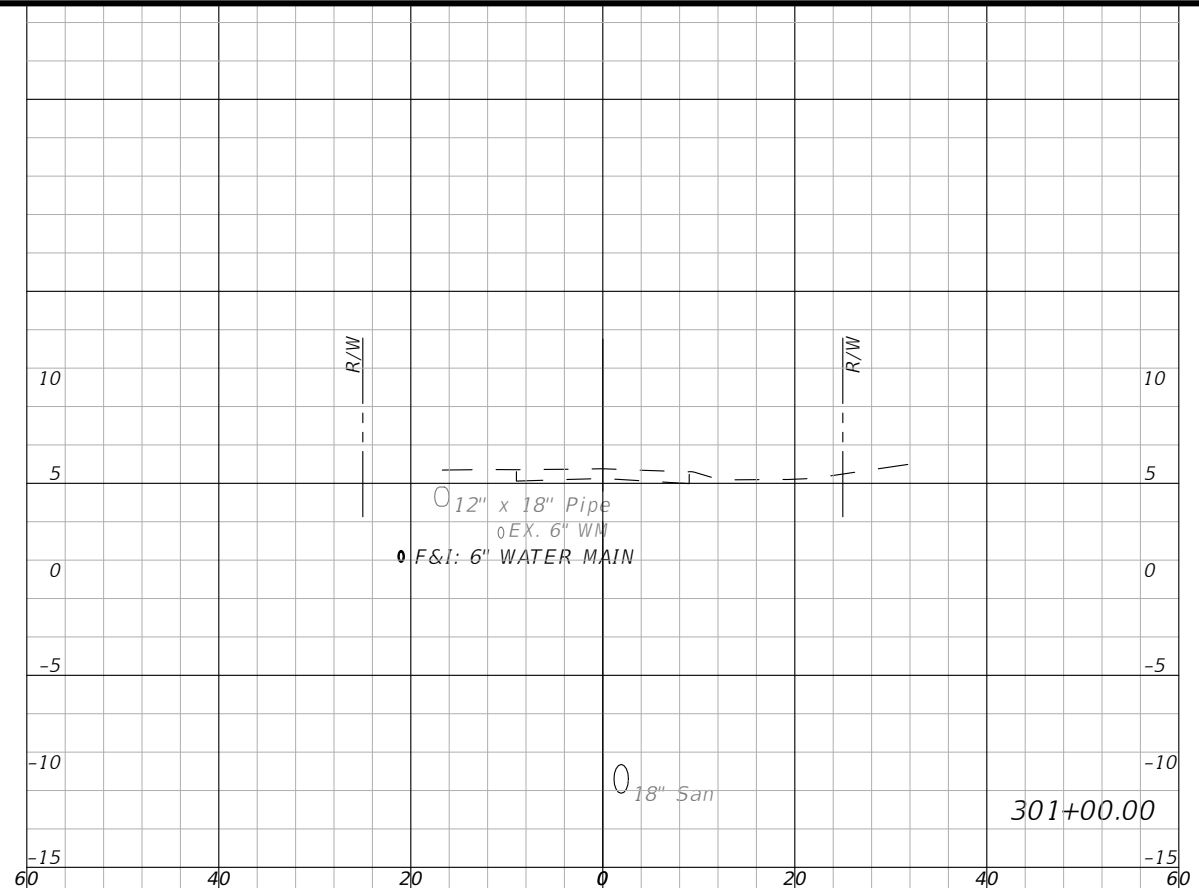


CROSS SECTIONS - 48TH ST. CT. W.

SHEET NO.
91

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

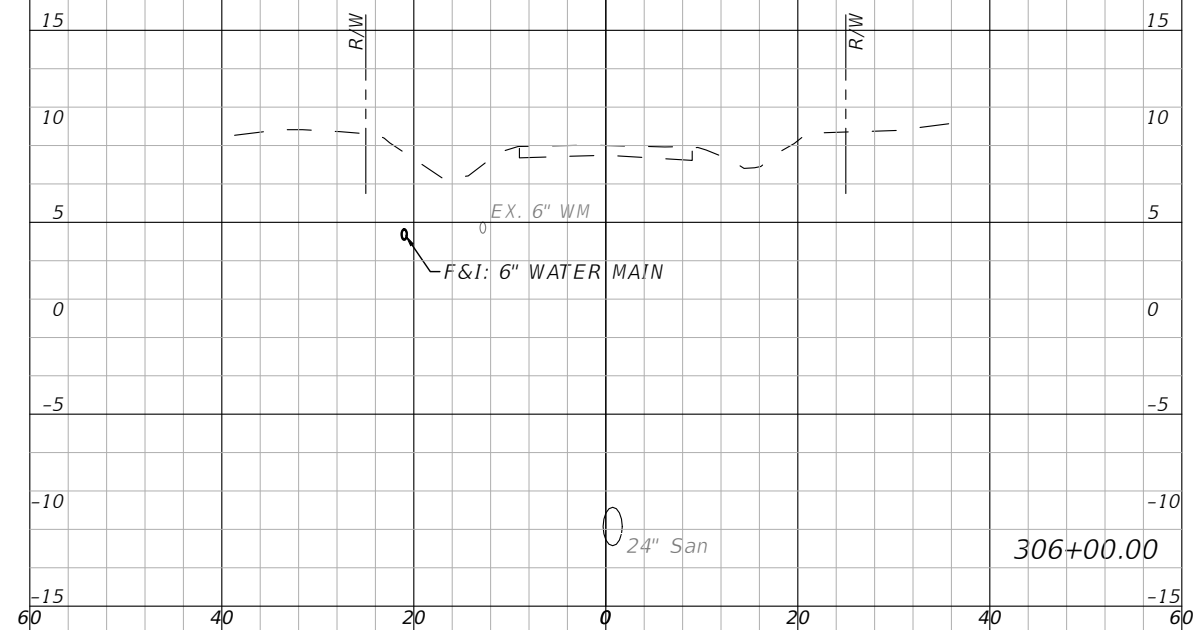
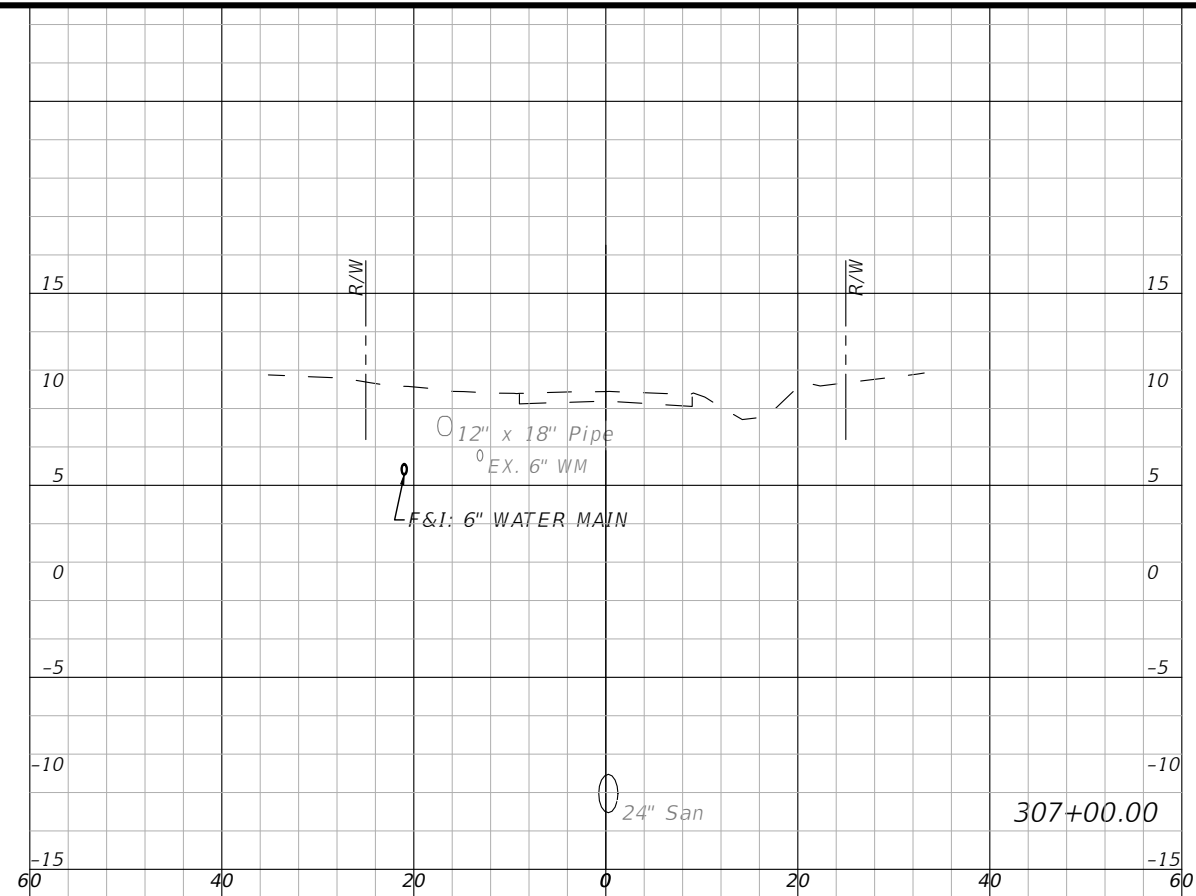
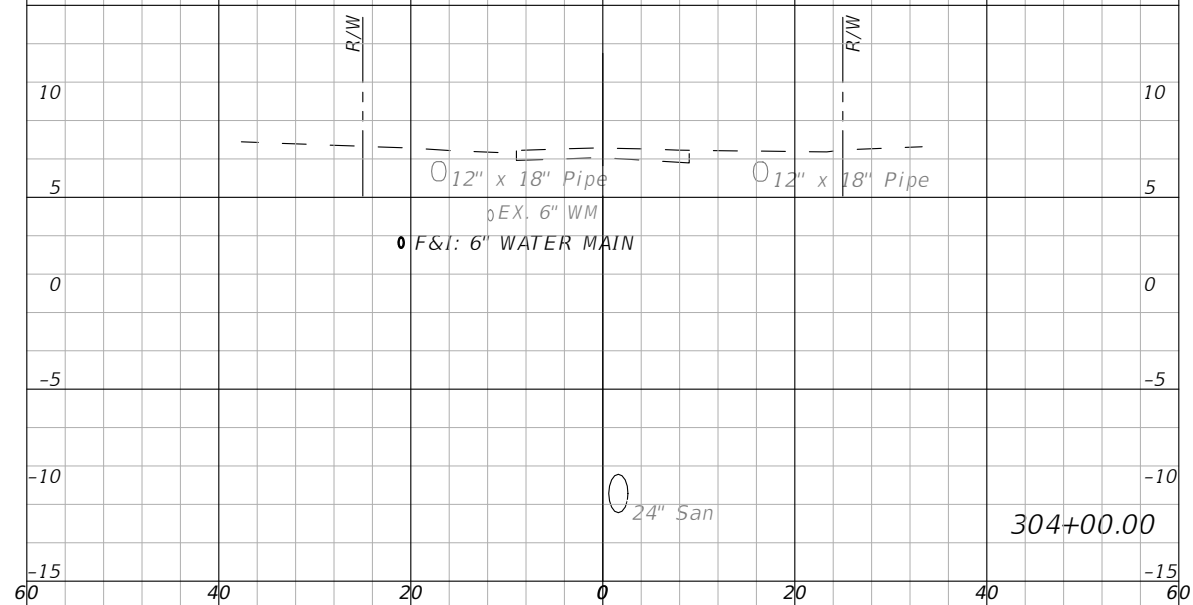
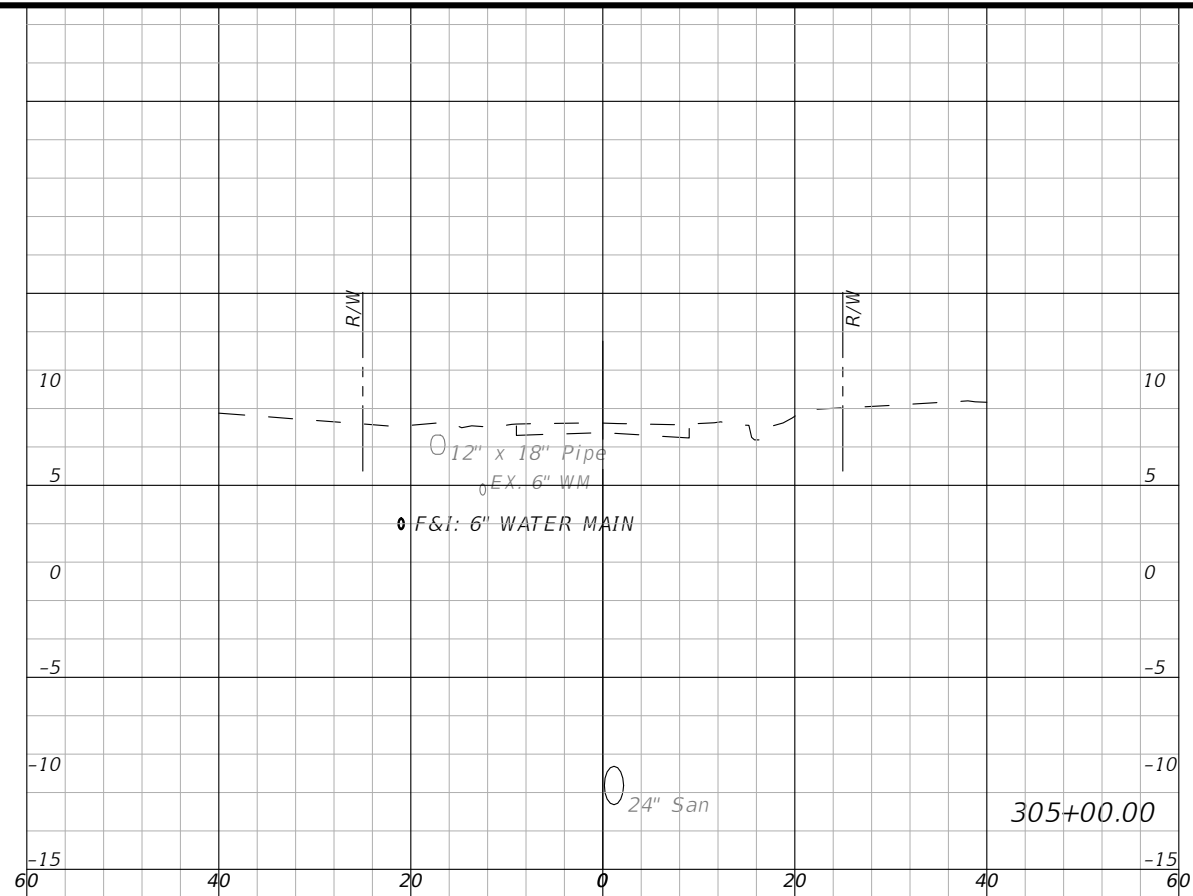


CROSS SECTIONS - 47TH ST. W.

SHEET NO.
92

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172-00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
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PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



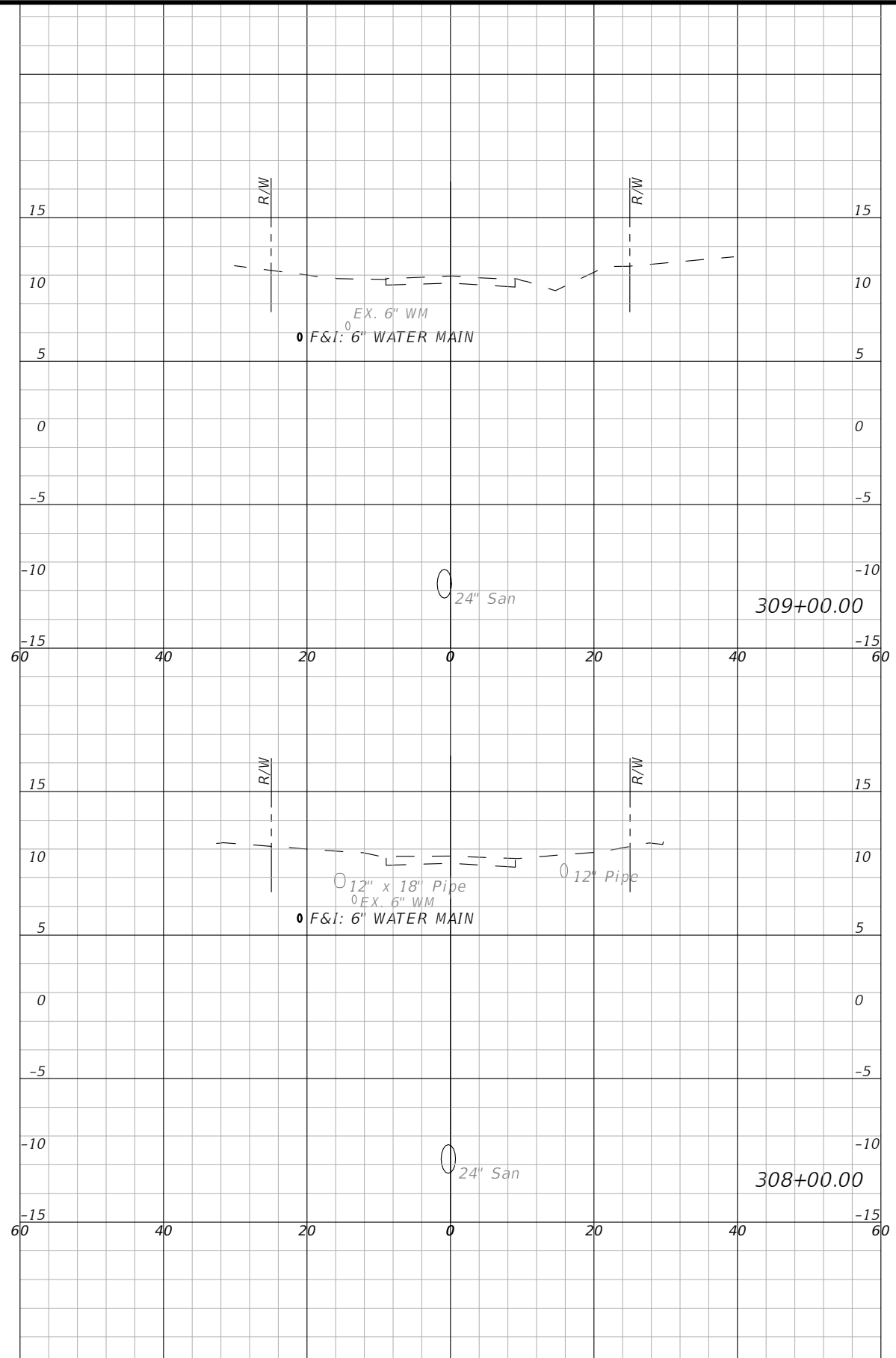
CROSS SECTIONS - 47TH ST. W.

SHEET NO.

93

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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1" = 20' Horizontal
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

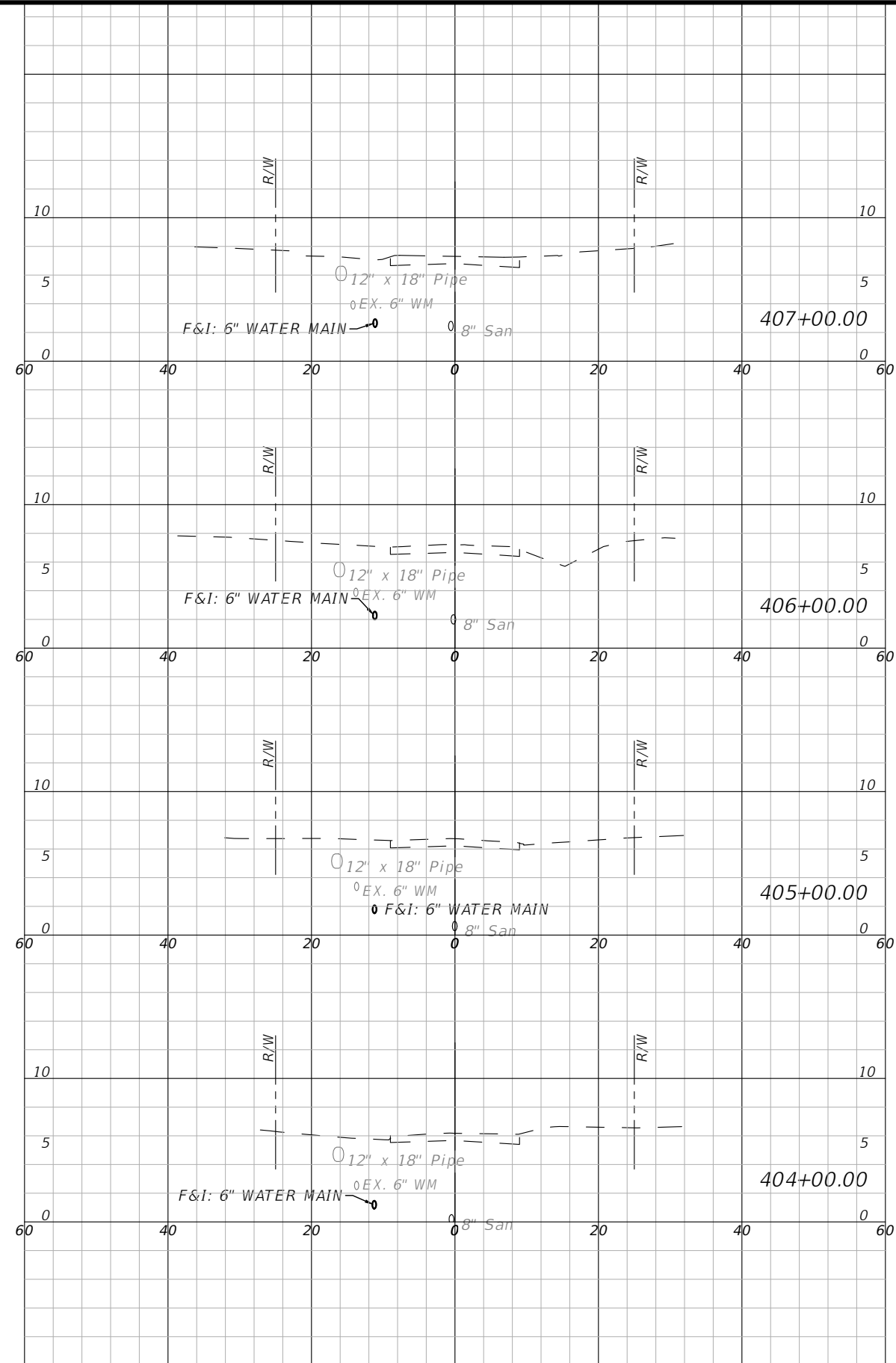
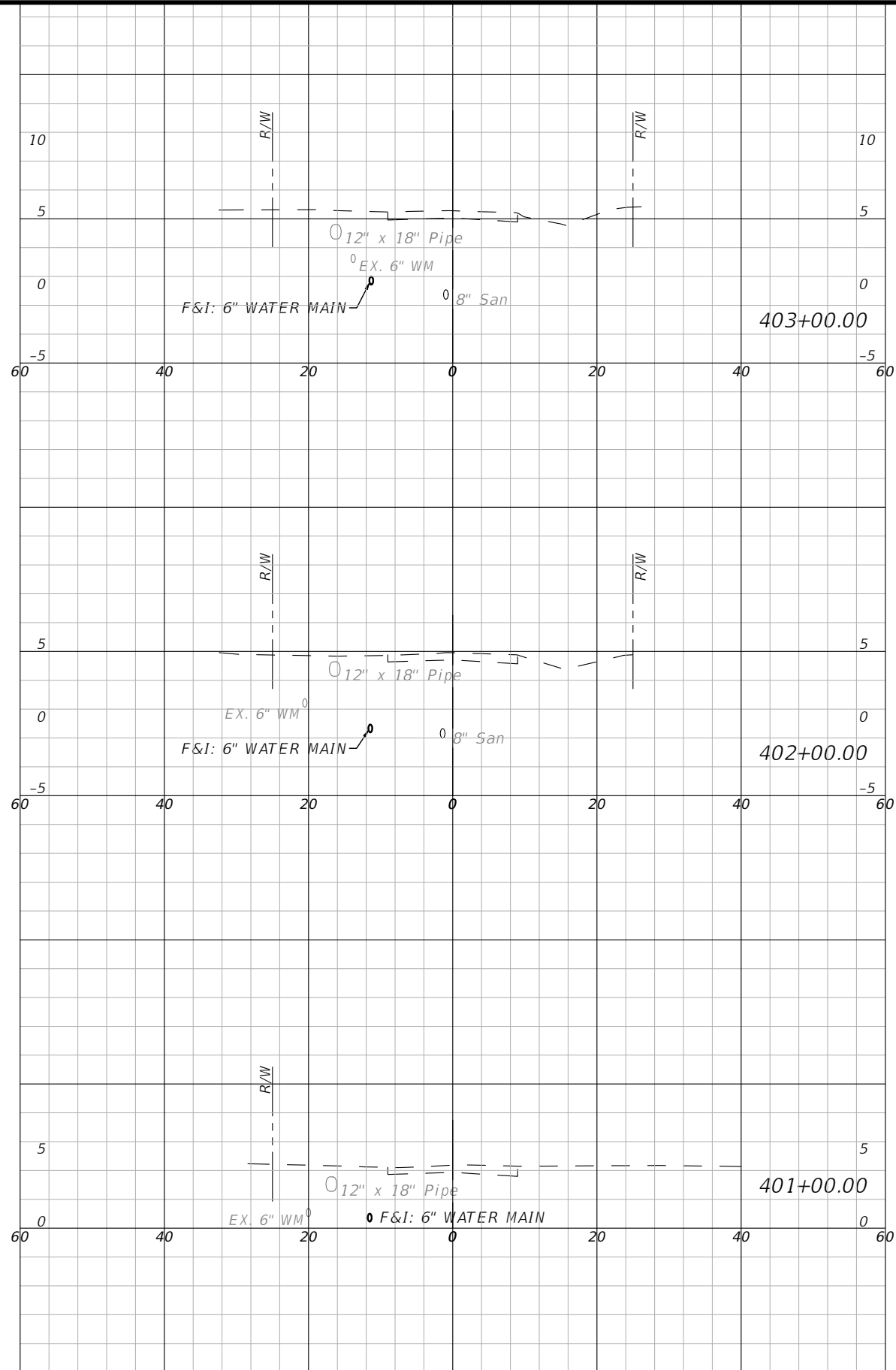


CROSS SECTIONS - 47TH ST. W.

SHEET NO.
94

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1" = 20' Horizontal
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DR BY	AD	DATE	NOV 2019
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PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS

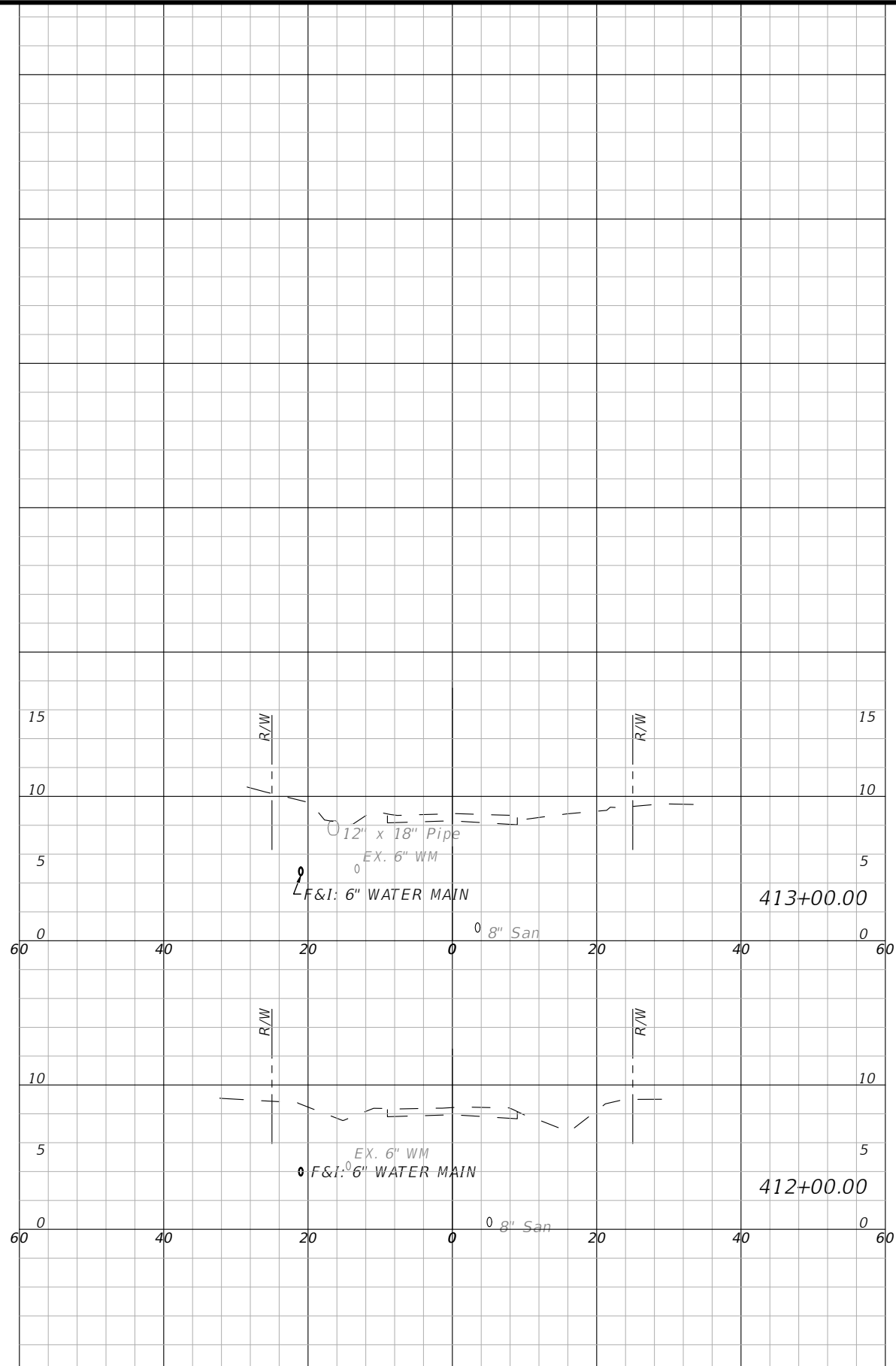
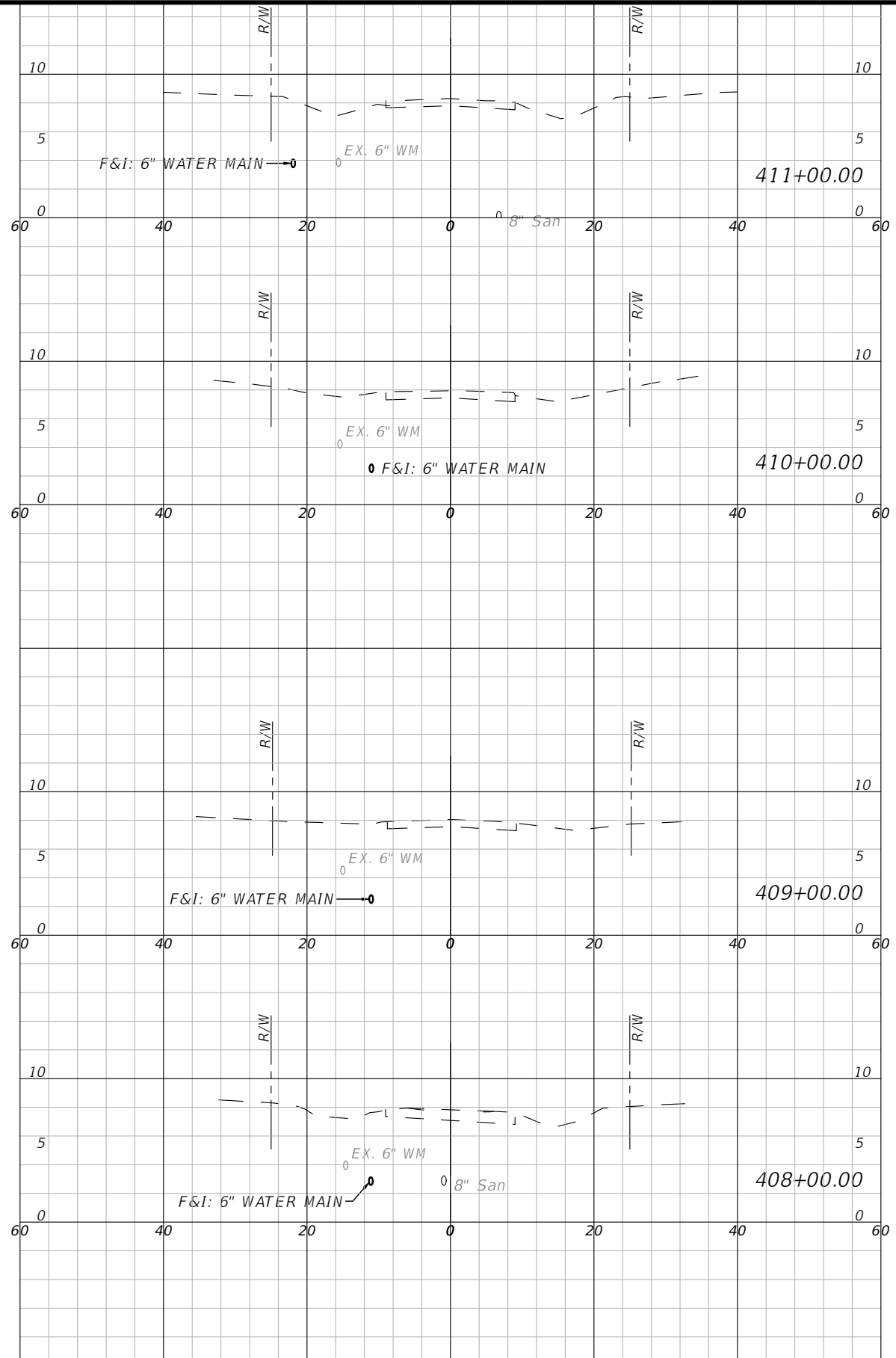


CROSS SECTIONS - 44TH ST. CT. W.

SHEET NO.
 95

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1" = 20' Horizontal
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DES BY	CKM	PROJ NO	66-0172-00
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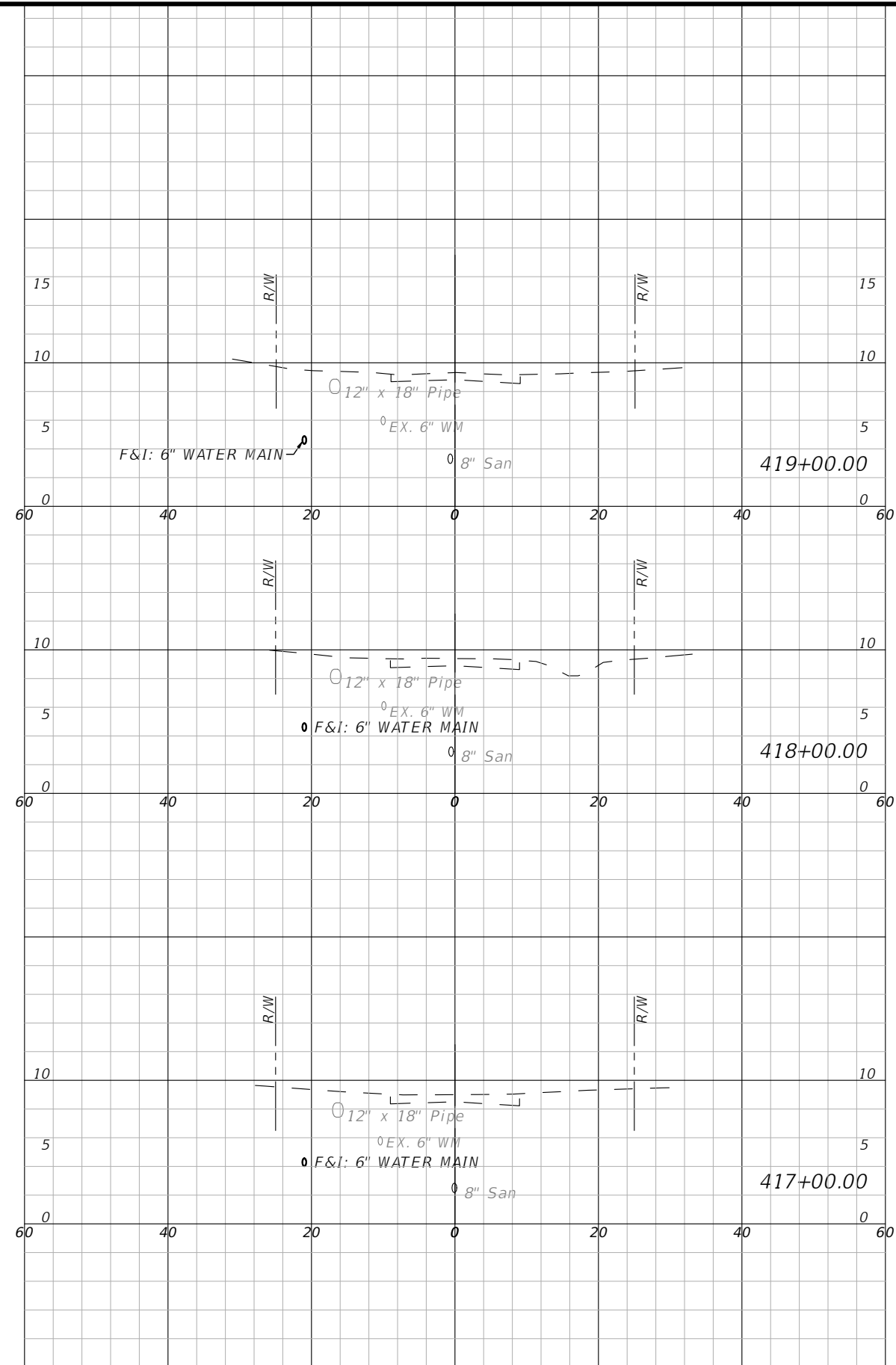
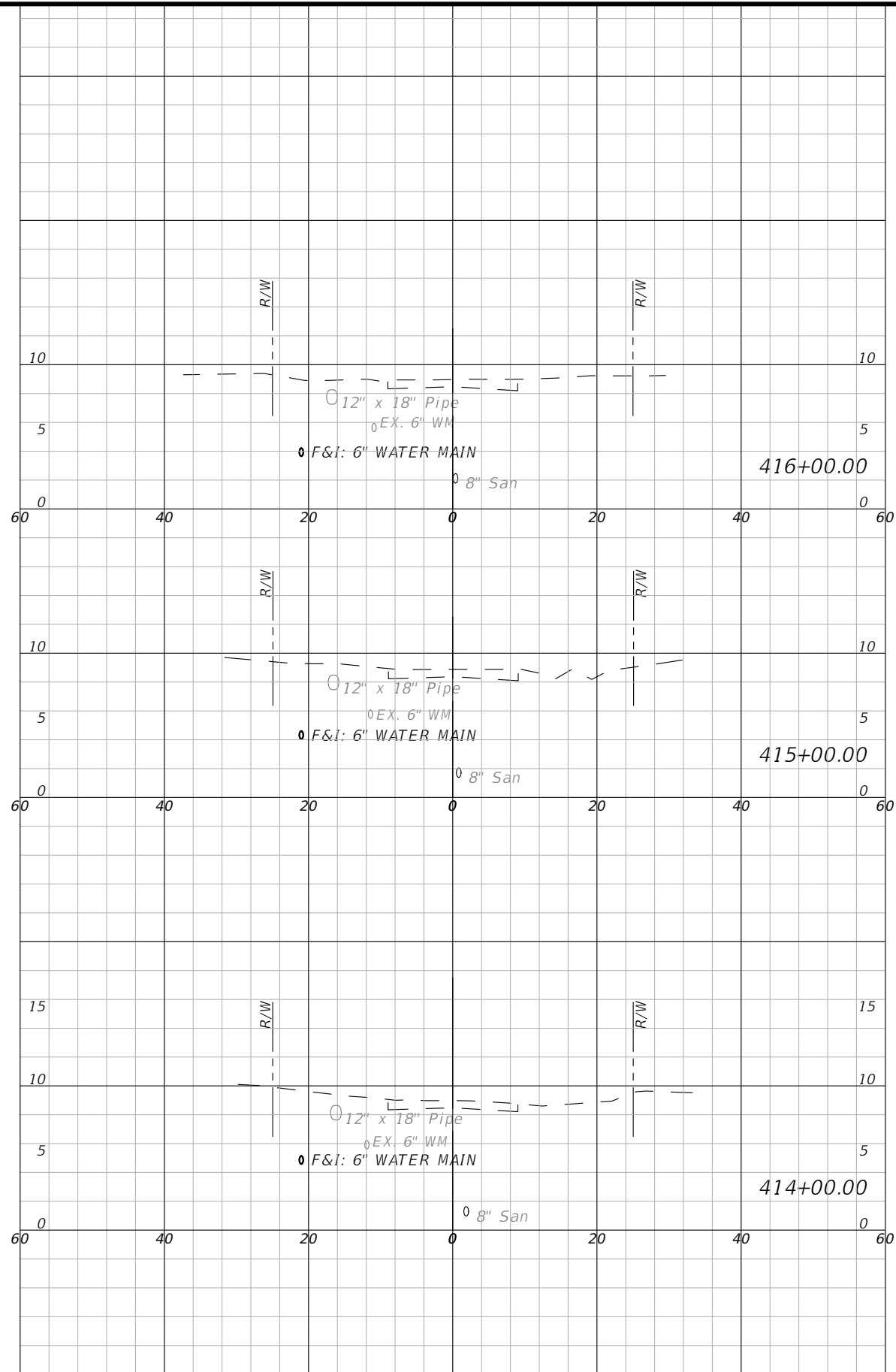
PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
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CROSS SECTIONS - 44TH ST. CT. W.
 SHEET NO. 96

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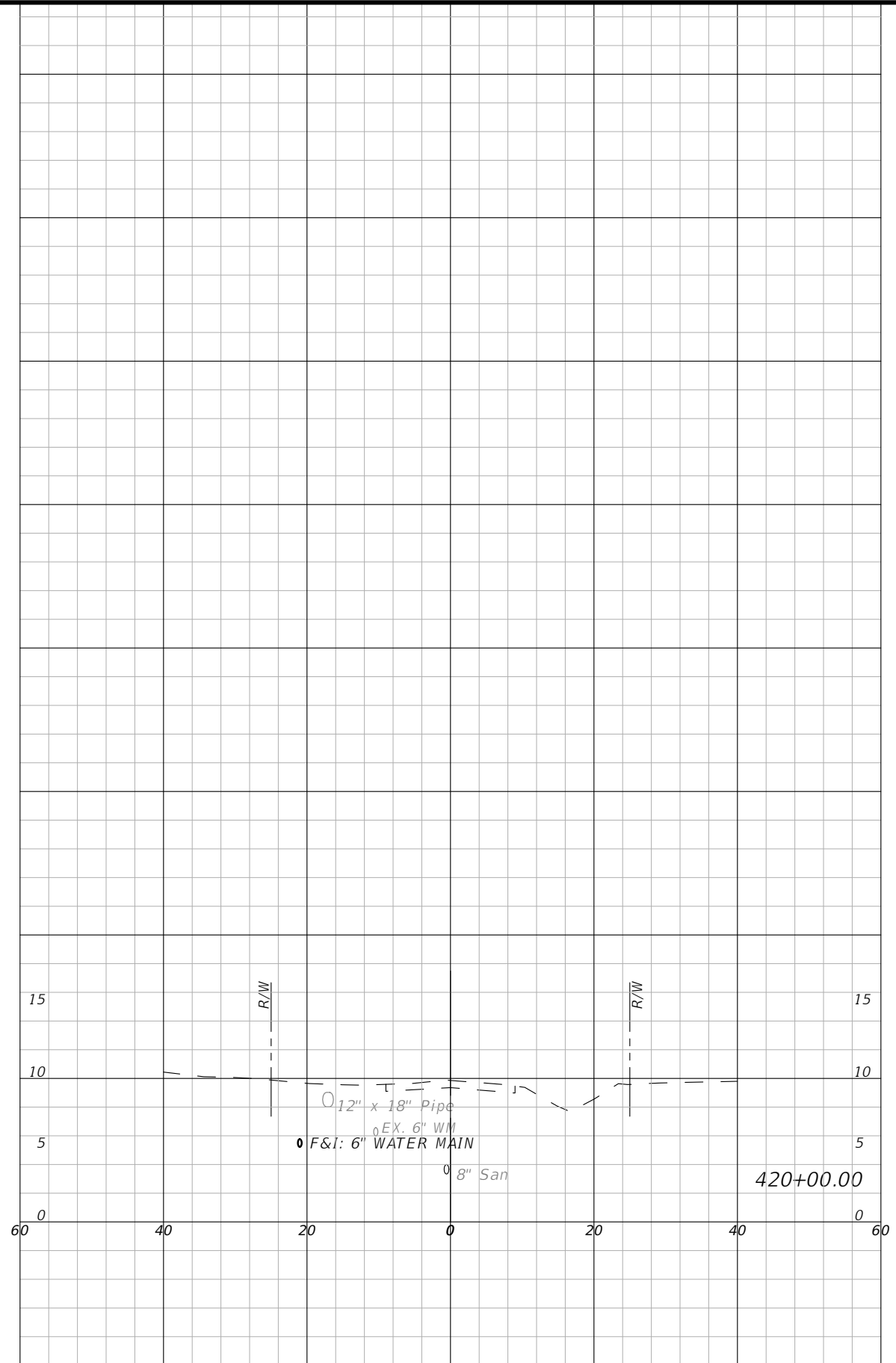
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
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CROSS SECTIONS - 44TH ST. CT. W.
SHEET NO. 97

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1" = 20' Horizontal
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DES BY	CKM	PROJ NO	66-0172-00	NO	DATE	NOV 2019	REVISION	
DR BY	AD							
CHK BY	CKM							

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MANATEE COUNTY PUBLIC WORKS

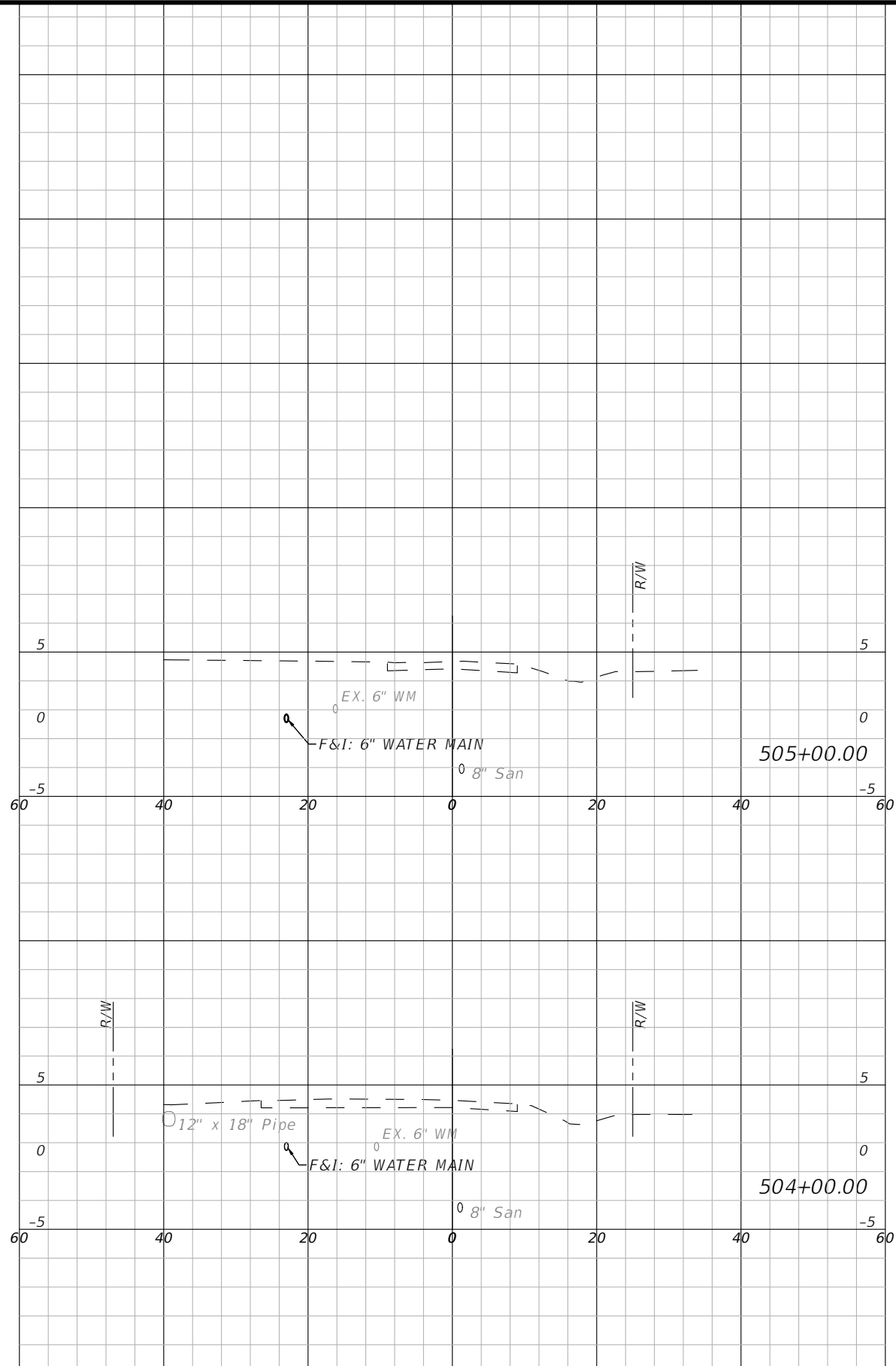
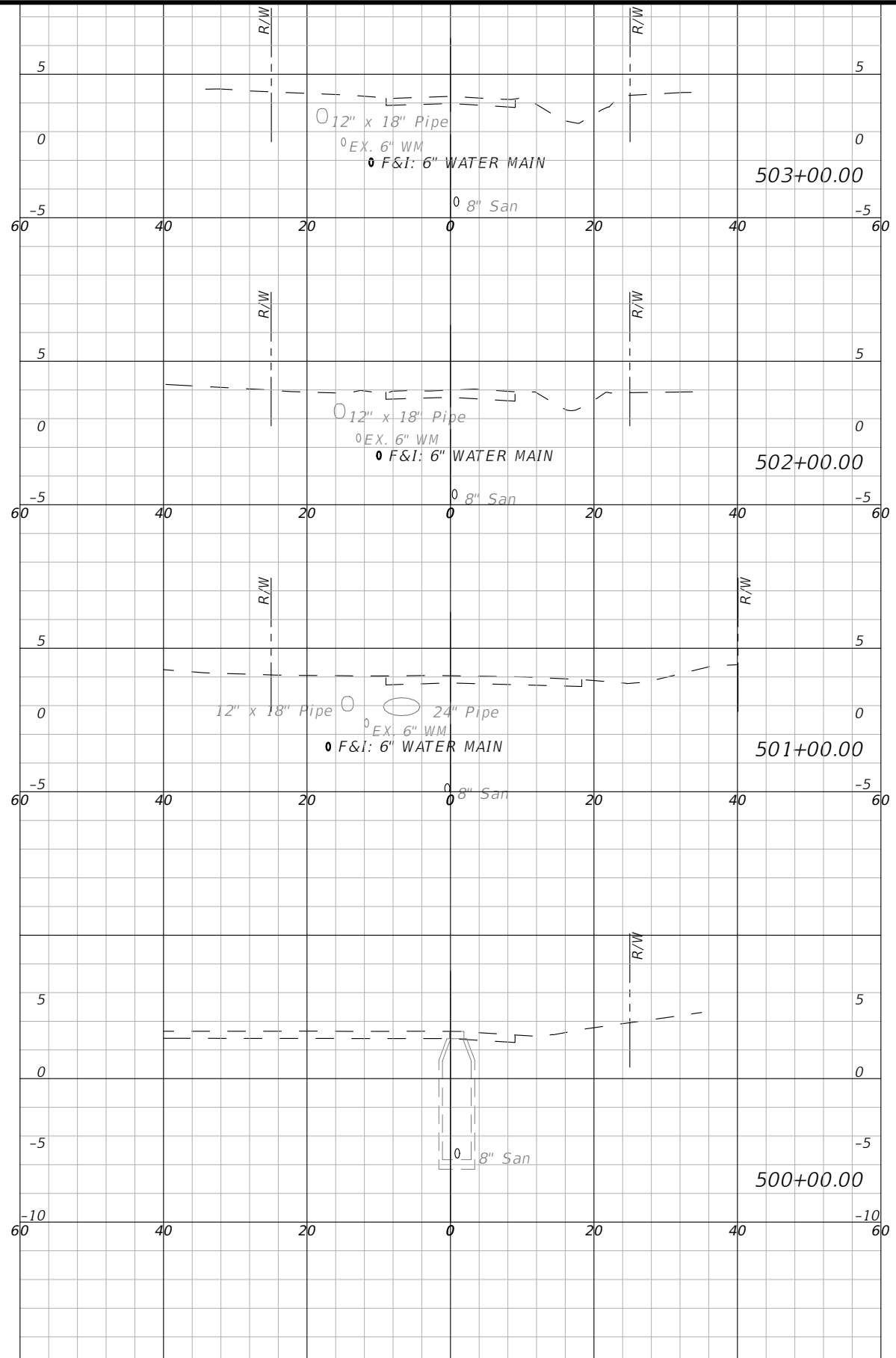


CROSS SECTIONS - 44TH ST. CT. W.

SHEET NO.
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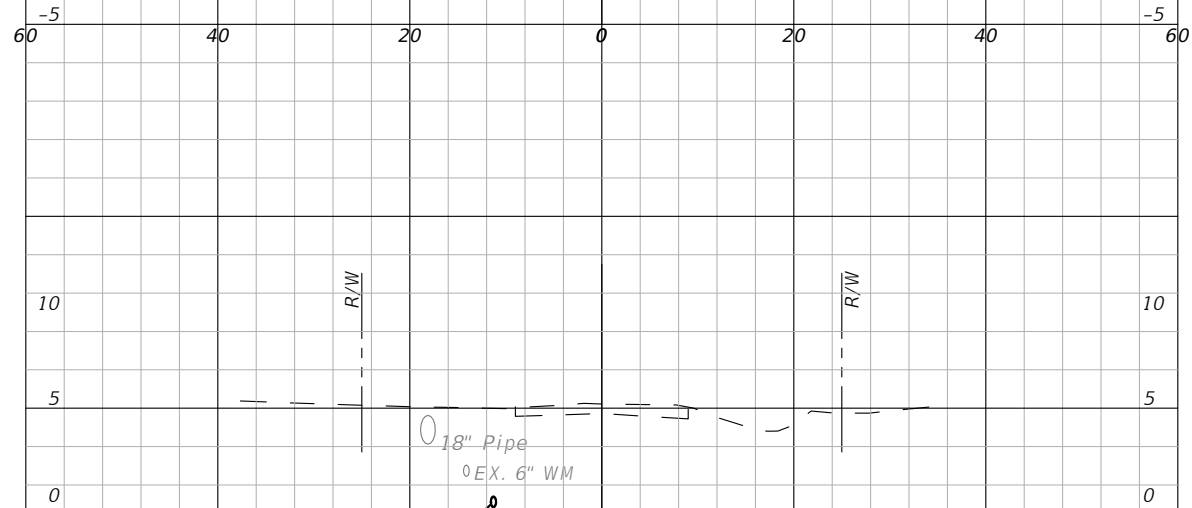
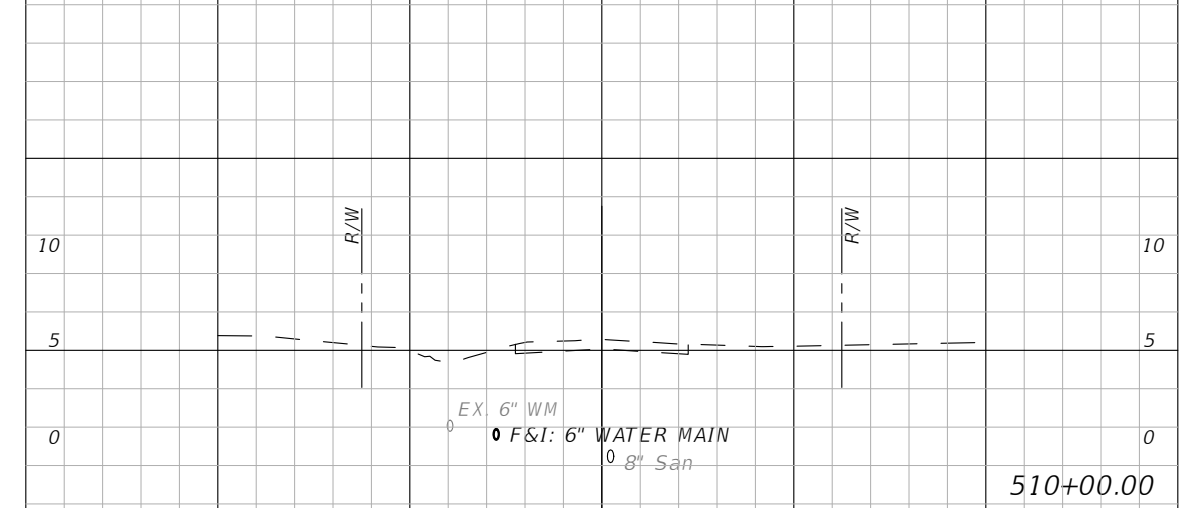
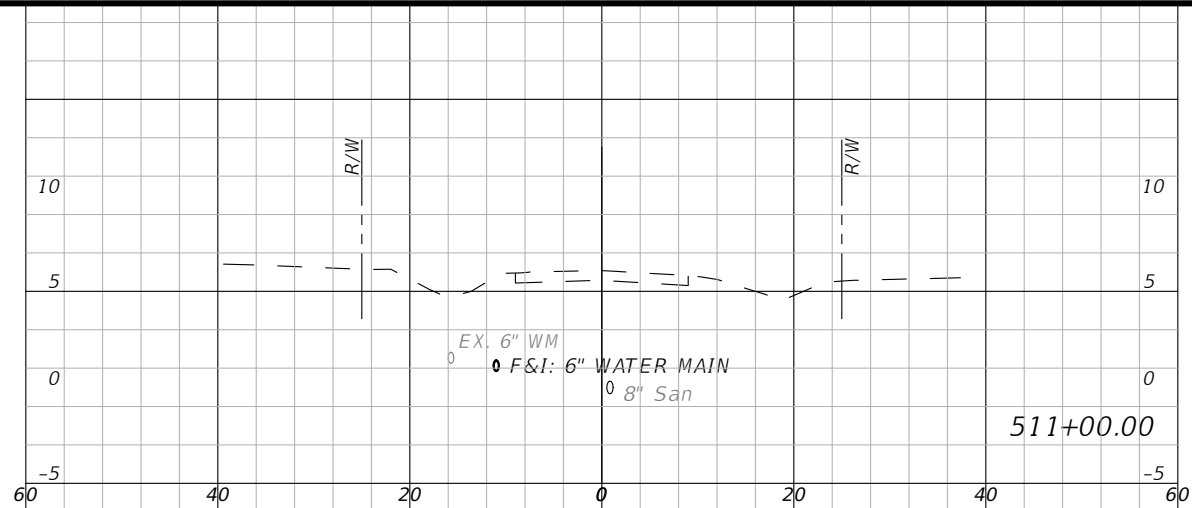
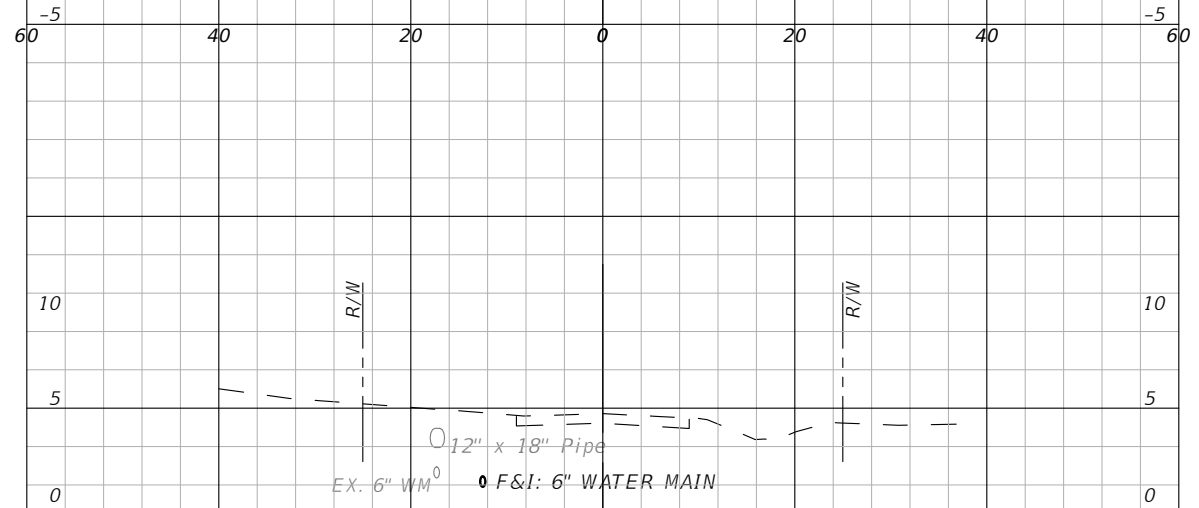
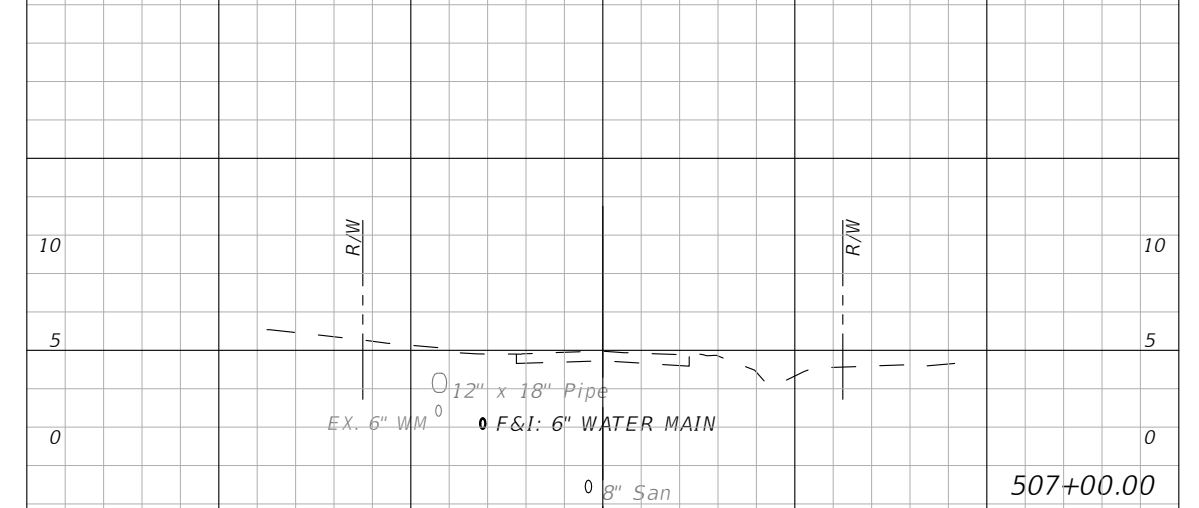
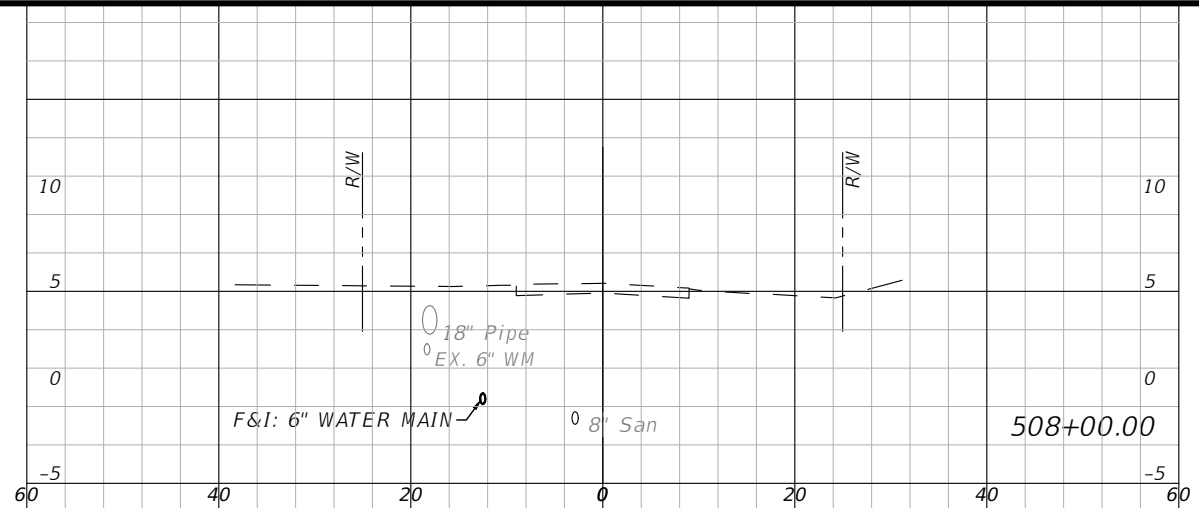


CROSS SECTIONS - 43RD ST. BLVD. W.

SHEET NO. 99

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	
DR BY	AD	66-0172.00	
CHK BY	CKM	DATE	NOV 2019
		NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

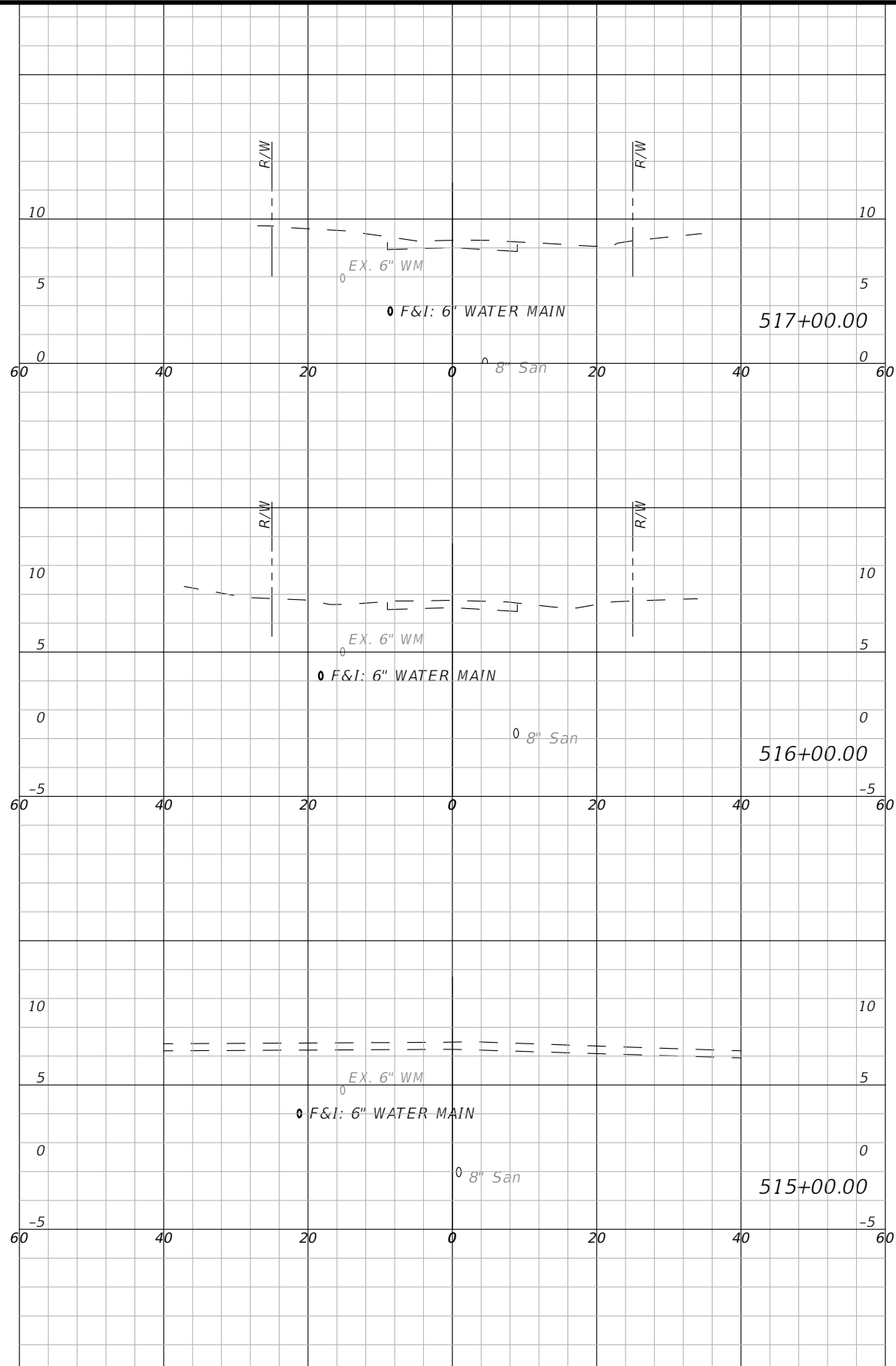
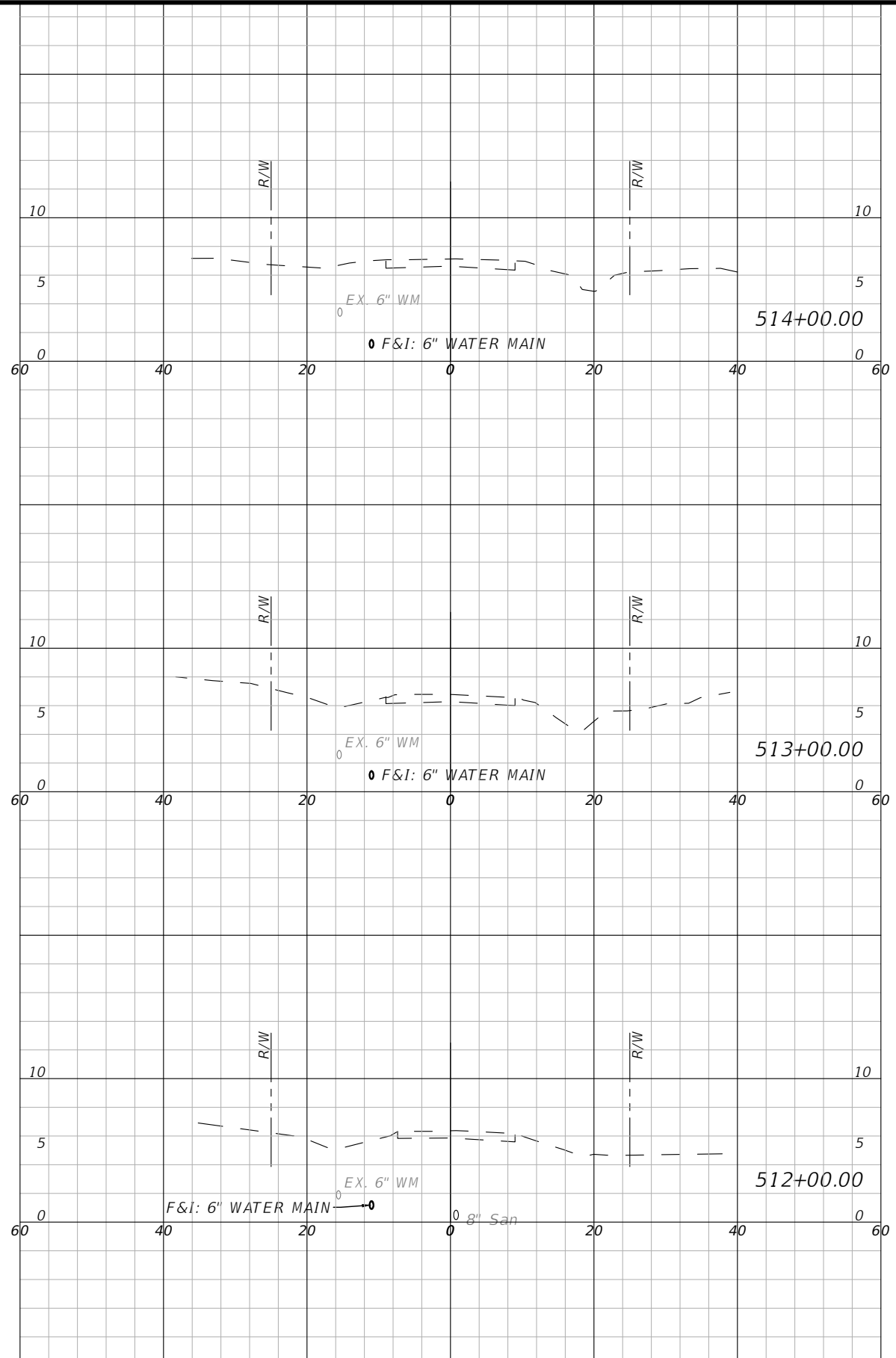


CROSS SECTIONS - 43RD ST. BLVD. W.

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1" = 20' Horizontal
1" = 10' Vertical

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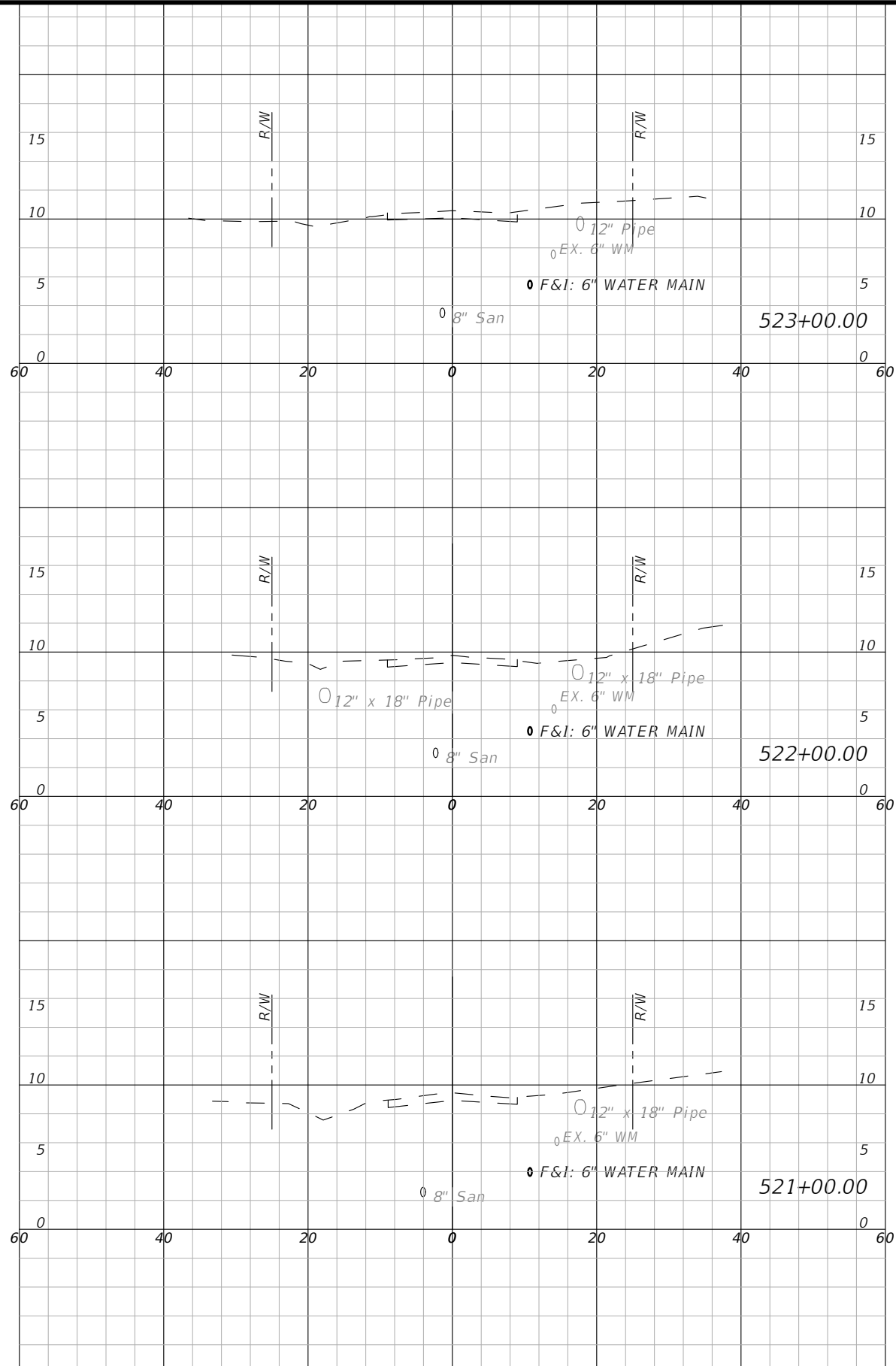
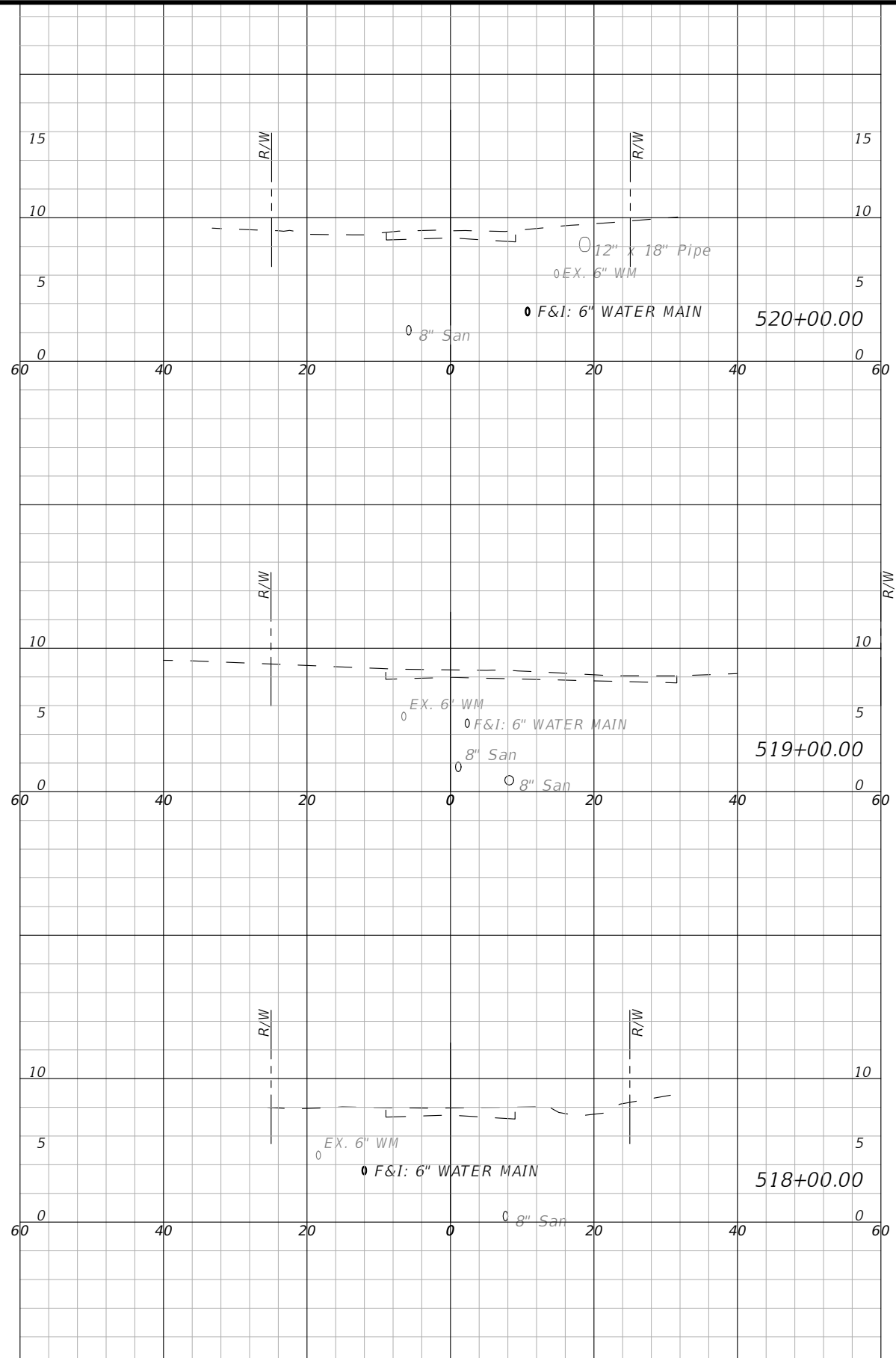


CROSS SECTIONS - 43RD ST. BLVD. W.

SHEET NO.
101

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1" = 20' Horizontal
 1" = 10' Vertical

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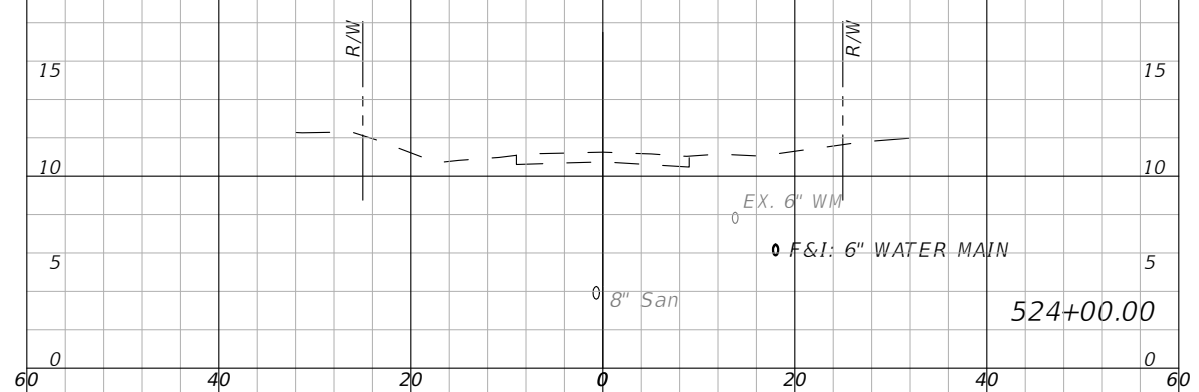
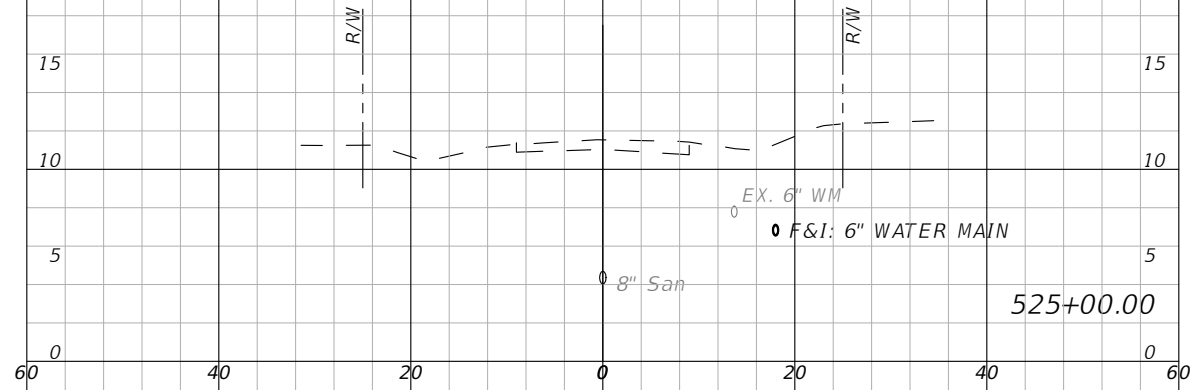


CROSS SECTIONS - 43RD ST. BLVD. W.

SHEET NO.
102

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1" = 20' Horizontal
1" = 10' Vertical

DES BY	CKM	PROJ NO	66-0172.00		
DR BY	AD	DATE	NOV 2019	NO	DATE
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PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

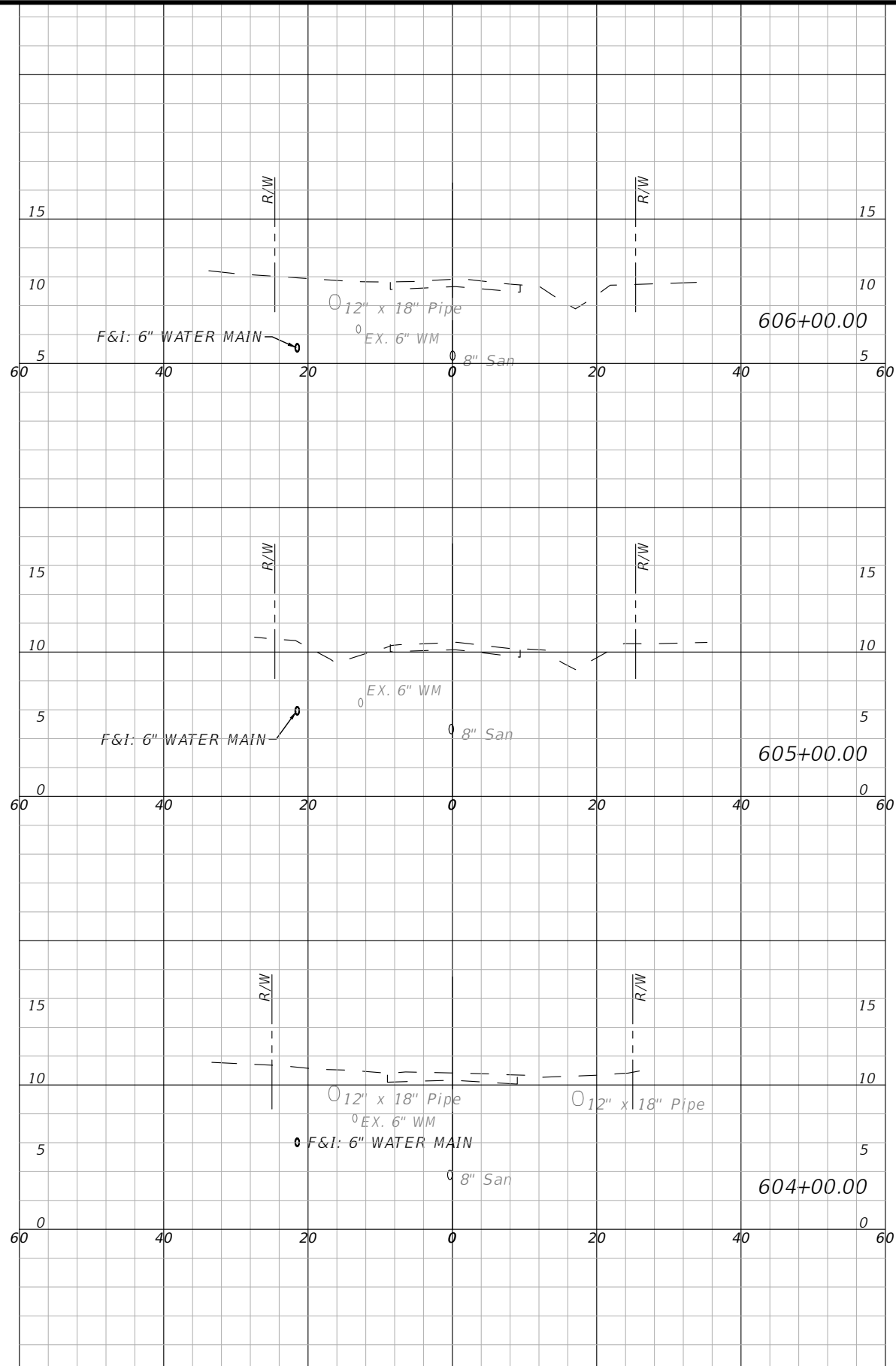
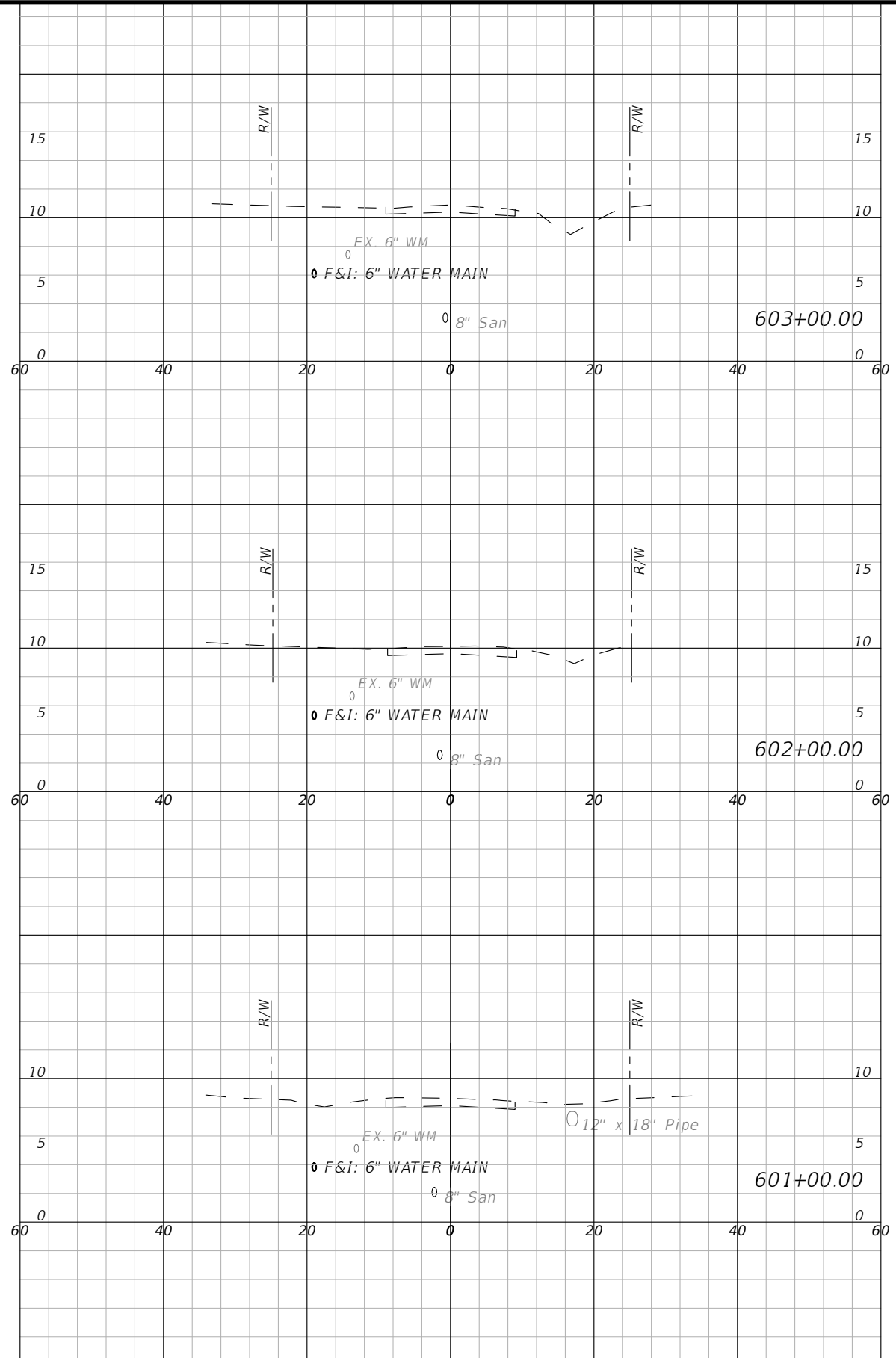


CROSS SECTIONS - 43RD ST. BLVD. W.

SHEET NO.
103

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1" = 20' Horizontal
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DES BY	CKM	PROJ NO	66-0172-00
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

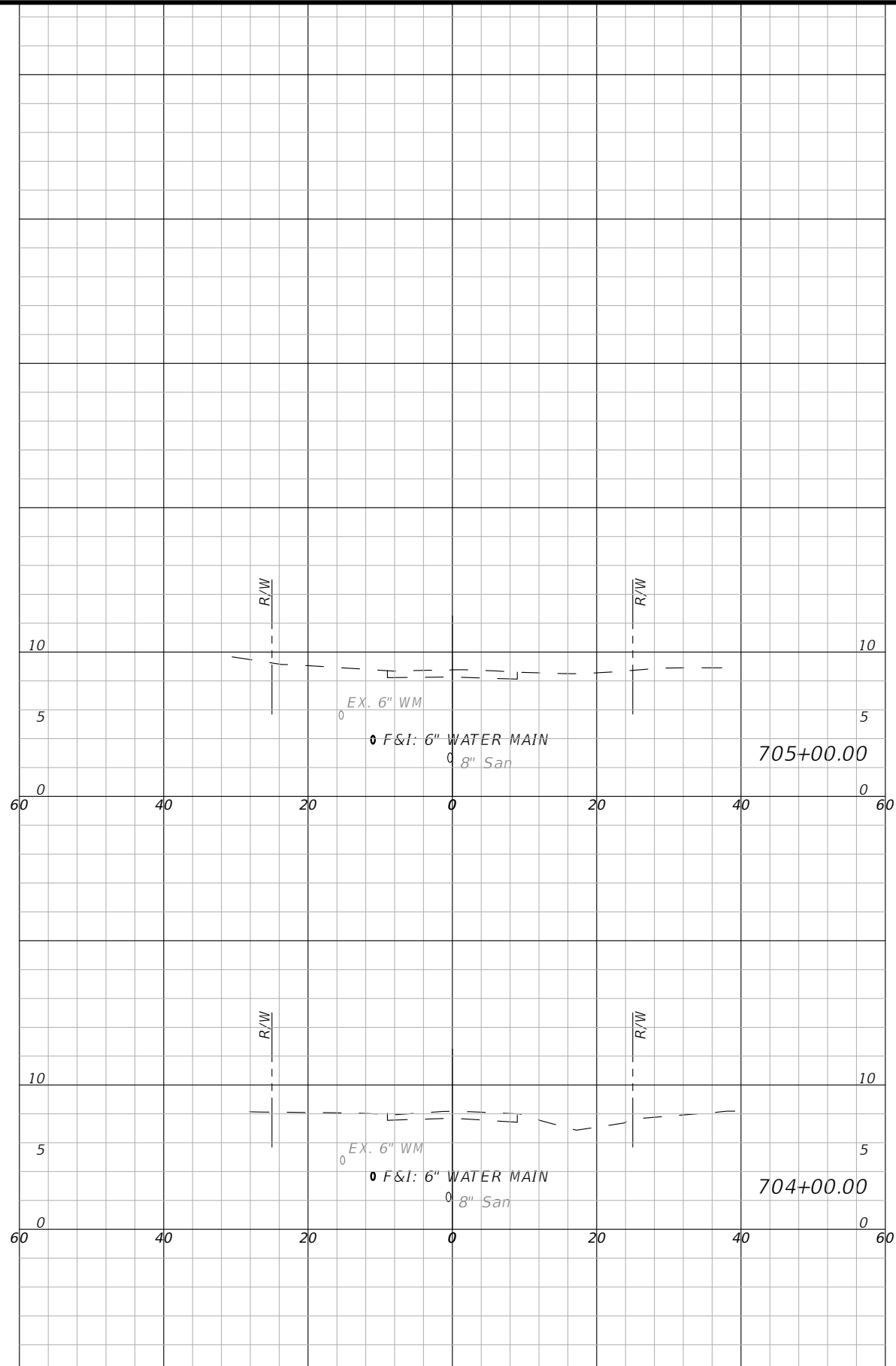
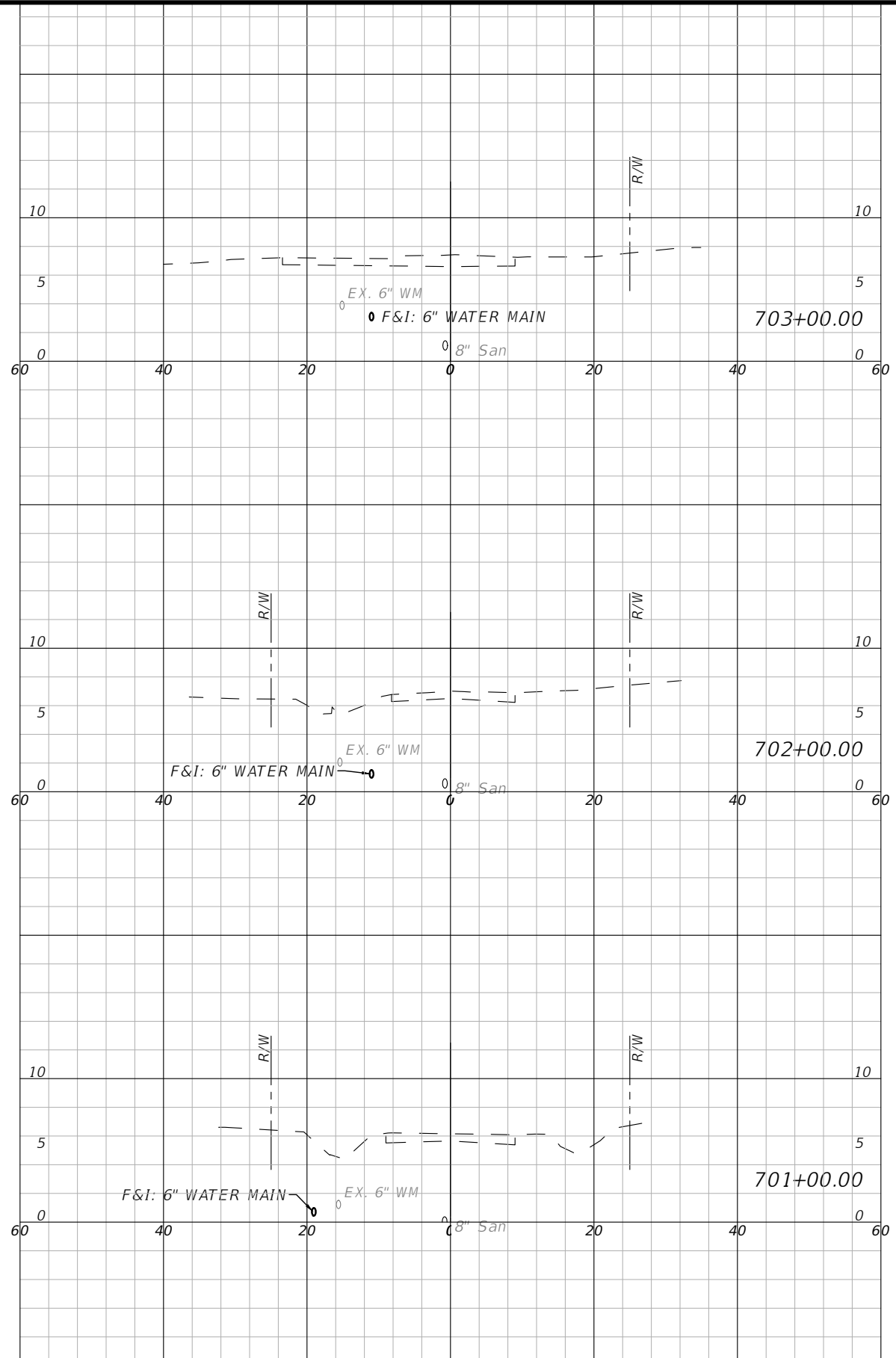


CROSS SECTIONS - 42ND ST. CT. W.

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104

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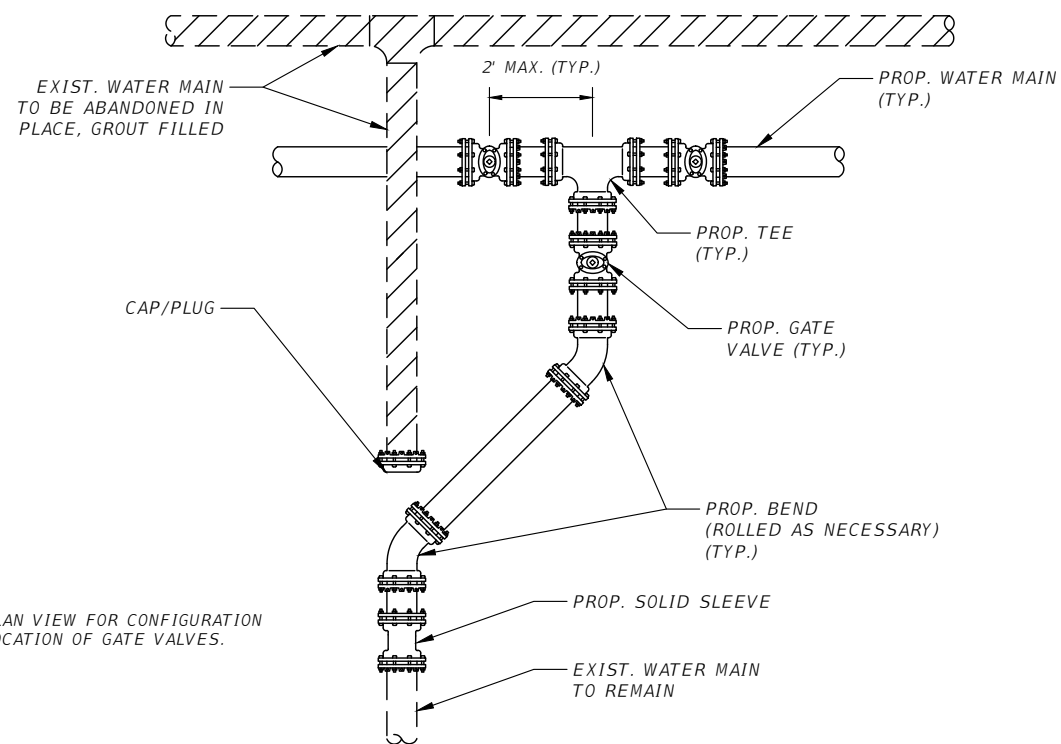
PALMETTO POINT WATER MAIN REPLACEMENT
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CROSS SECTIONS - 41ST ST. W.

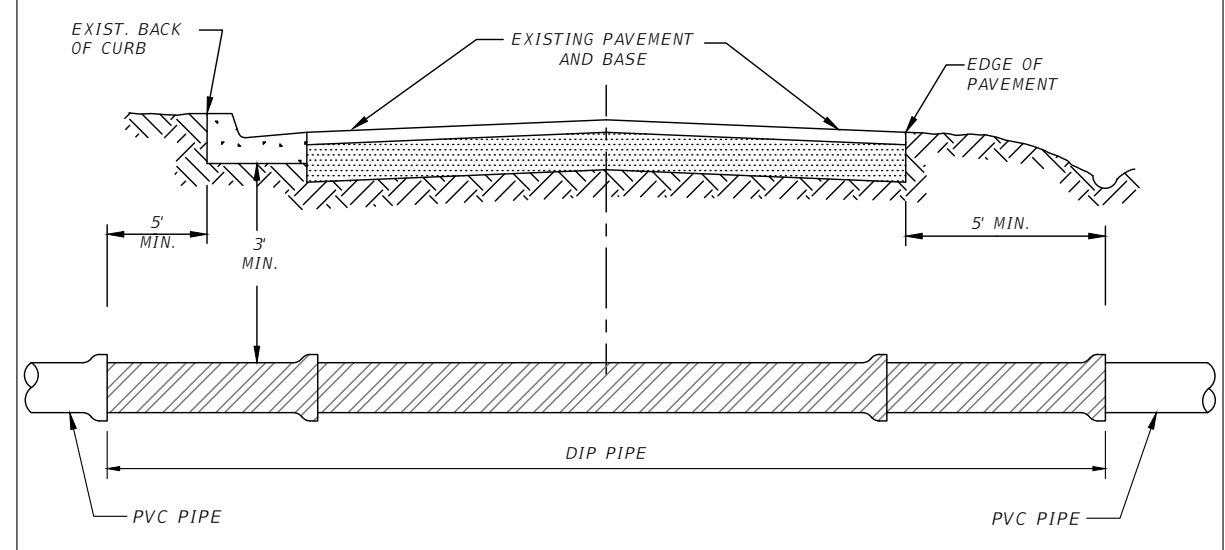
SHEET NO.
 105

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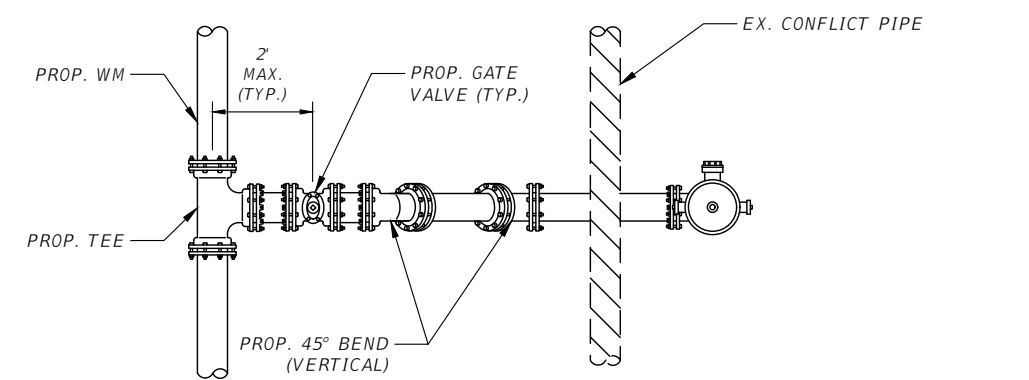


NOTES:
1. SEE PLAN VIEW FOR CONFIGURATION AND LOCATION OF GATE VALVES.

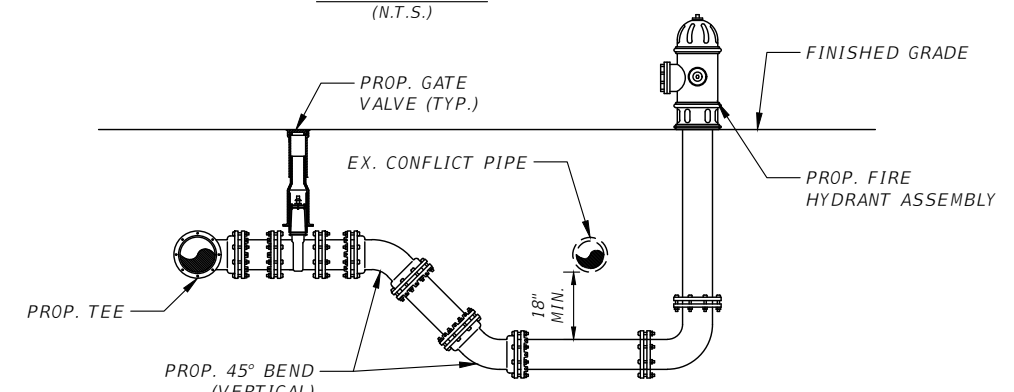
TYPICAL CONNECTION DETAIL TO EXISTING WATER MAIN



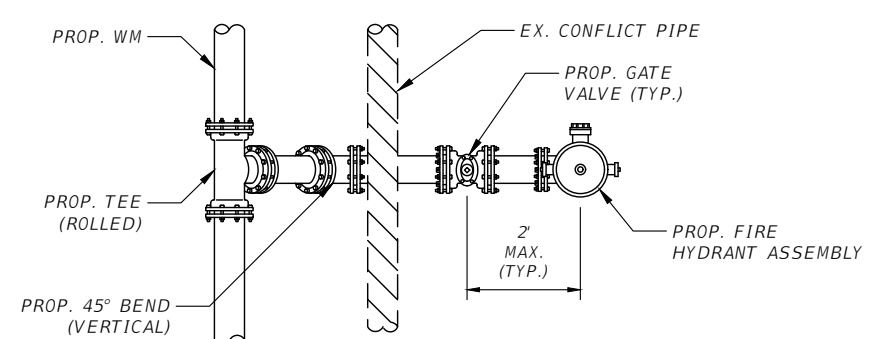
TYPICAL ROAD WATER MAIN CROSSING



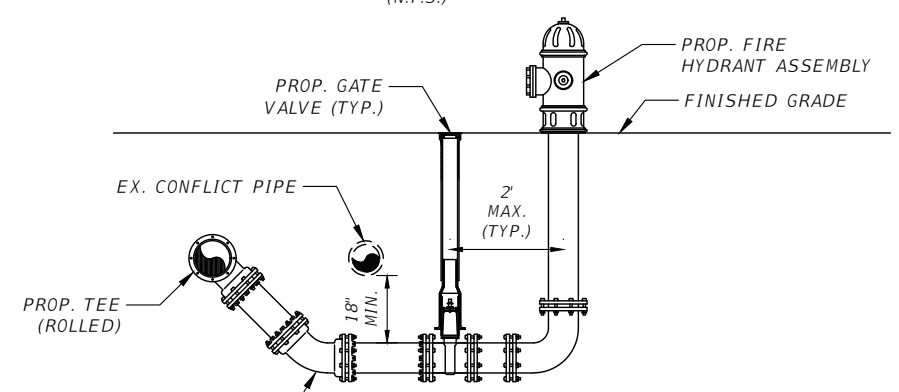
PLAN VIEW (N.T.S.)



PROFILE VIEW (N.T.S.)



PLAN VIEW (N.T.S.)



PROFILE VIEW (N.T.S.)

AA-Standard.dwg
1/16/2017 10:00 - Manatee County - Palmetto Point Water Main Drawings (66-0172.00 Typical Details.dwg) Layout: 106

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CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

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AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

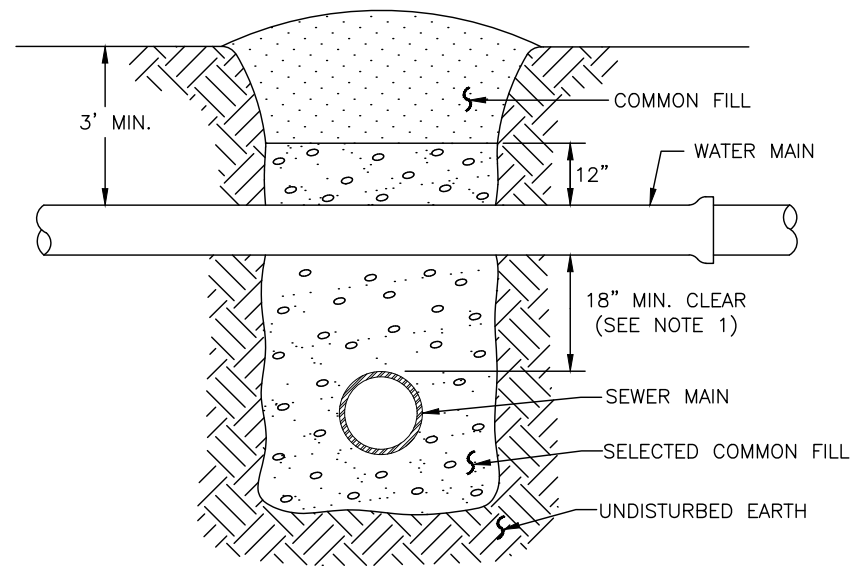
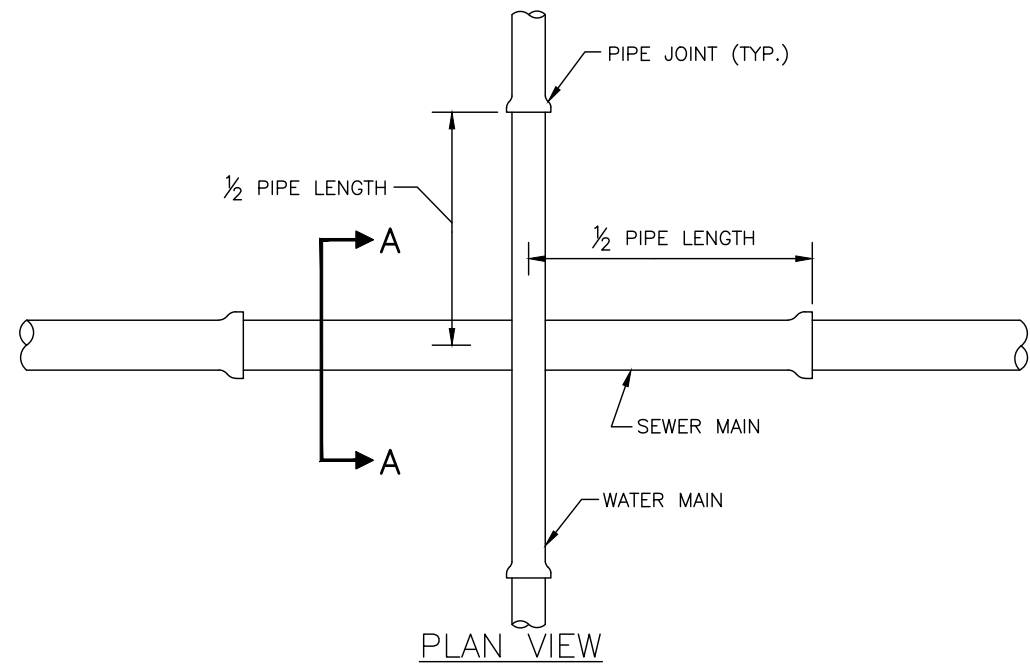
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PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



WATER MAIN CONNECTION DETAILS

SHEET NO. 106

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NOTES:

1. CLEARANCE MAY BE REDUCED TO 6" FOR GRAVITY SEWER WHERE WATER MAIN IS DUCTILE IRON OR 3" FOR FORCE MAIN WHERE FORCE MAIN IS ENCASED A MINIMUM OF 10' EACH SIDE OF CROSSING.
2. WHERE NO ENCASEMENT IS REQUIRED, PIPE SECTIONS SHALL BE FULL-LENGTH AND SHALL BE ADJUSTED HORIZONTALLY SO THAT THE CROSSING IS AT EACH PIPE SECTION'S MIDPOINT REGARDLESS OF THE VERTICAL CLEARANCE.
3. REFER TO THE JACK & BORE CROSSING DETAIL FOR CASING AND SPACER REQUIREMENTS.

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

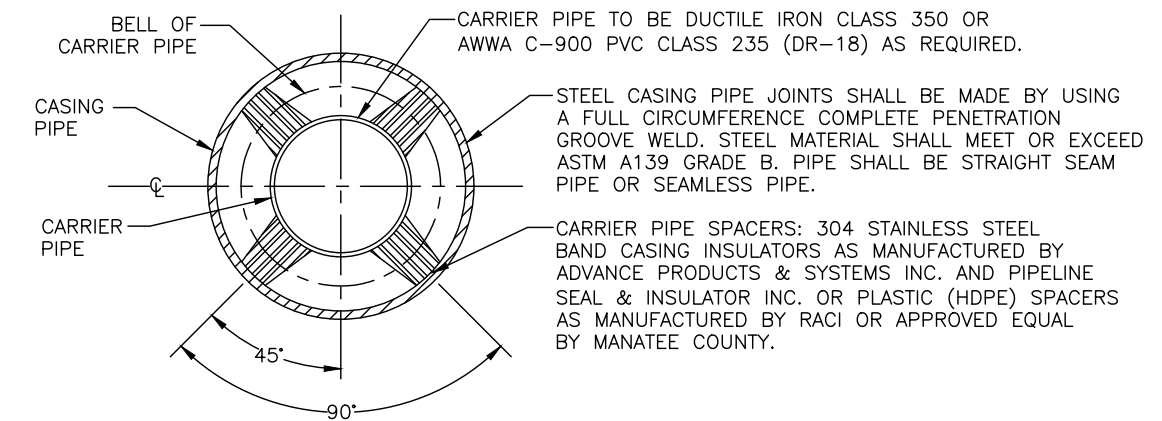
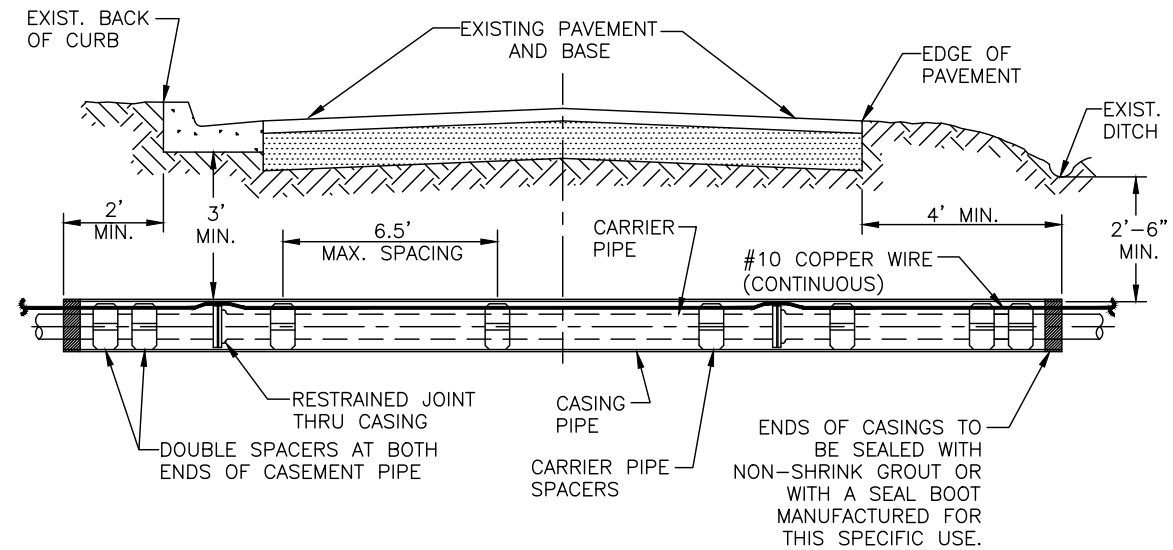
REV. BY	DATE
CLB/BR	11/10

MAY 10, 2011
DATE OF APPROVAL

TYPICAL NEW WATER &
SEWER LINE CROSSING

UG-2

PAGE 102



	CARRIER SIZE & MINIMUM CASING SIZE								
CARRIER	4"	6"	8"	10"	12"	14"	16"	18"	20"
CASING	12"	14"	18"	20"	24"	30"	30"	36"	36"
CASING / WALL THICKNESS	0.188	0.188	0.250	0.250	0.344	0.406	0.406	0.406	0.406

NOTES:

1. THE ENGINEER OF RECORD MAY SELECT LARGER CASING DIAMETERS.
2. FOR JACK & BORE SPECIFICATIONS UNDER STATE ROADS AND RAILROADS REFER TO THE F.D.O.T. UTILITY ACCOMMODATION MANUAL, LATEST EDITION.

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV. BY	DATE
CLB/BR	11/10

MAY 10, 2011
DATE OF APPROVAL

JACK & BORE
CROSSING

UG-3

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AA-Standard.dwg
1/16/07
Manatee County - Palmetto Point Water Main Replacement (66-0172.00) Typical Details.dwg, Layout: 107

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

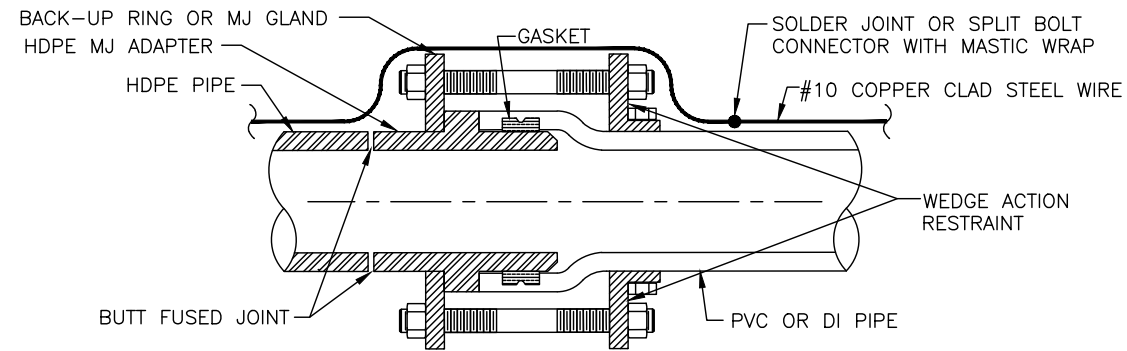
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



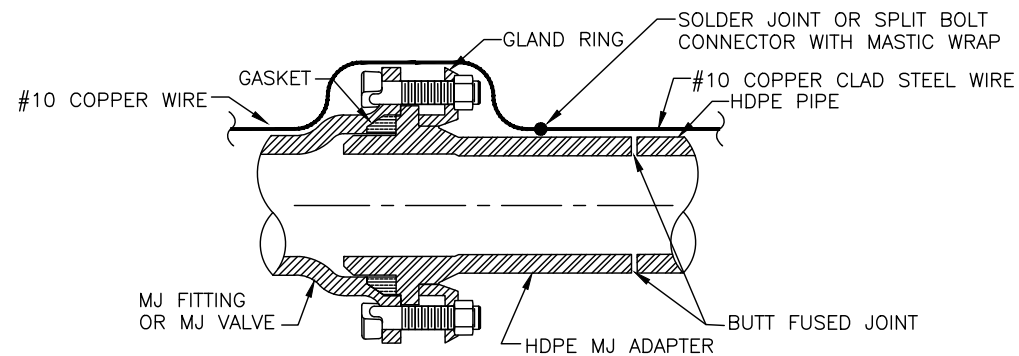
TYPICAL DETAILS

SHEET NO.
107

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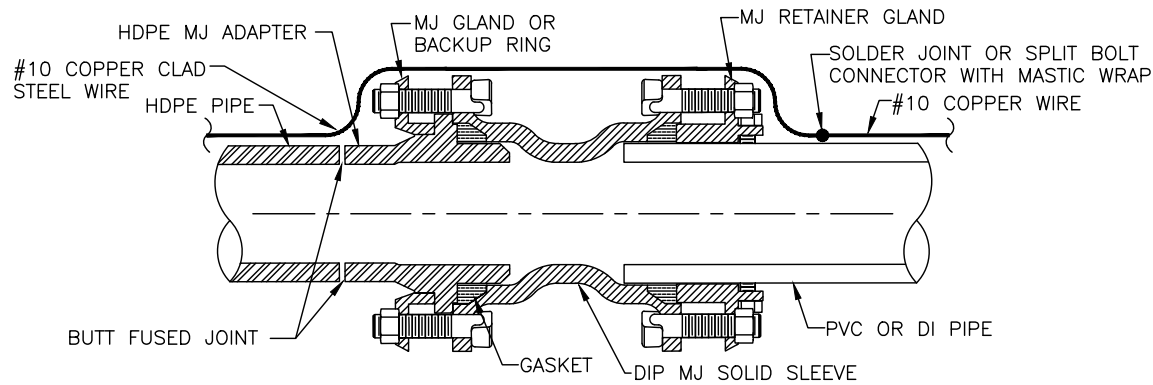


HDPE PIPE TO PVC PIPE / SPIGOT TO BELL CONNECTION



NOTE: SCHEMATIC SHOWN FOR STANDARD MJ FITTINGS AND GATE VALVES.

HDPE PIPE TO MJ FITTING TRANSITION

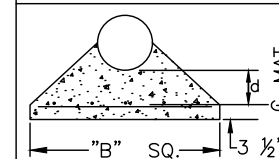


HDPE PIPE TO PVC PIPE SPIGOT TO SPIGOT CONNECTION

- ONE # 10 GAUGE EXTRA HIGH STRENGTH COPPER CLAD STEEL TRACER WIRE SHALL BE PULLED AND SECURED TO THE PIPE FOR PIPELINES THAT ARE INSTALLED BY TRENCHLESS HORIZONTAL DIRECTIONAL DRILLING METHOD. IN NON-DIRECTIONAL BORE (TRENCHES AND BORE & JACK) APPLICATIONS, A # 10 GAUGE SOLID INSULATED COPPER WIRE SHALL BE ATTACHED TO THE PIPE. TRACER WIRES SHALL HAVE A MINIMUM 30-MILS OF POLYETHYLENE INSULATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		HDPE TO PVC OR DI PIPE ADAPTER	UG-6
REV. BY CLB/BR	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 106	

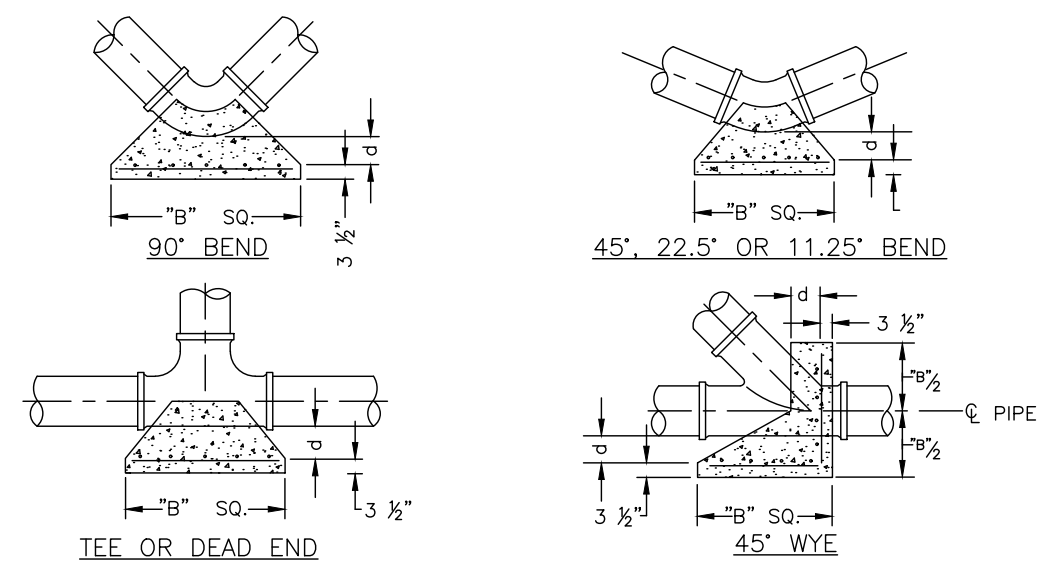
PIPE SIZE (IN.)	90° BEND		45° BEND		22.5° BEND		11.25° BEND		DEAD END & TEE		45° WYE	
	B	d	B	d	B	d	B	d	B	d	B	d
4	1.5	3 1/2	1.1	3 1/2	0.8	3 1/2	0.6	3 1/2	1.3	3 1/2	1.1	3 1/2
6	2.2	5 1/4	1.6	3 3/4	1.2	3 1/2	0.8	3 1/2	1.9	4 1/2	1.6	3 3/4
8	2.9	7	2.1	5	1.5	3 1/2	1.1	3 1/2	2.4	5 3/4	2.0	4 3/4
10	3.5	8 1/2	2.6	6 1/4	1.9	4 1/2	1.3	3 1/2	3.0	7 1/4	2.5	6
12	4.2	10	3.1	7 1/2	2.2	5 1/4	1.6	3 3/4	3.5	8 1/4	3.0	7 1/4
14	4.9	11 3/4	3.6	8 3/4	2.6	6 1/4	1.8	4 1/4	4.1	9 3/4	3.4	8 1/4
16	5.5	13 1/4	4.1	9 3/4	2.9	7	2.1	5	4.7	11 1/4	3.9	9 1/4
18	6.2	15	4.6	11	3.3	8	2.3	5 1/2	5.2	12 1/2	4.4	10 1/2
20	6.9	16 1/2	5.0	12	3.6	8 3/4	2.6	6 1/4	5.8	14	4.9	11 3/4
24	8.2	19 3/4	6.0	14 1/2	4.3	10 1/4	3.1	7 1/2	6.9	16 1/2	5.8	14
30	10.1	24 1/4	7.5	18	5.3	12 3/4	3.8	9	8.5	20 1/2	7.2	17 1/4
36	12.1	29	8.9	21 1/4	6.4	15 1/4	4.5	10 3/4	10.2	24 1/2	8.6	20 3/4



REINFORCEMENT MAT SCHEDULE
 FOR DIM. "B" BETWEEN 5.75' & 12.5' USE #4 @ 8" EACH WAY
 FOR DIM. "B" LESS THAN 5.75' USE #3 @ 8" EACH WAY

NOTES:

- ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.
- THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSF, CONCRETE STRENGTH f_c =3000 PSI, REINFORCEMENT f_y =60.0 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.
- FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.
- RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. THRUST BLOCKS SHALL BE USED IN SITUATIONS WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE BOTH REQUIRED.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CONCRETE THRUST BLOCKS	UG-7
REV. BY CLB/BR	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 107	

AA-Standard.dwg
 1/16/07 12:00 - Manatee County - Palmetto Point Water Main Replacement (66-0172.00 Typical Details.dwg) Layout: 109

DES BY	CKM			
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CHK BY	CKM	DATE	NOV 2019	NO DATE REVISION

PROFESSIONAL OF RECORD:
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 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS



TYPICAL DETAILS

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

**REQUIRED LENGTH OF RESTRAINED JOINT PIPE
FOR DR-18 PVC PIPE**

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS			PLUGS & VALVES							
	90°	45°	22.5°	SIZE			LENGTH			SIZE				LENGTH						
				X24	X20	X16	X12	X10	X8	X6	X4	X24		X20	X16	X12	X10	X8	X6	X4
24	90	38	18	169	132	90	38	6	64	117	158									214
20	78	32	16	141	101	53	24	1	65	115	149									184
16	66	27	13	111	67	41	12		64	107	111									151
12	52	22	10	80	56	31	1		58	62	86									118
10	44	18	9	63	40	7			33	61	81									100
8	37	15	7	49	18	1			35	60										83
6	29	12	6	29	1				33											63
4	21	8	4	12																45

NOTES:

- RESTRAIN 11.25' BENDS 50% OF LENGTH FOR 22.5' BENDS.
- ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
- ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
- PIPE SIZES ARE GIVEN IN INCHES.
- RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
- LENGTHS SHOWN ARE FOR A TEST PRESURE OF 180 PSI.
- THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
- RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL RESTRAINED LENGTHS FOR PIPE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR PVC PIPE	UG-8
REV. BY CLB/BR	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL			
PAGE 108			

**REQUIRED LENGTH OF RESTRAINED JOINT PIPE
FOR DIP (POLY-WRAPPED)**

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS			PLUGS & VALVES							
	90°	45°	22.5°	SIZE			LENGTH			SIZE				LENGTH						
				X36	X30	X24	X20	X16	X12	X10	X8	X6		X4	X36	X30	X24	X20	X16	
36	142	59	28	393	318	232	165	84	1	137	247	309	359							453
30	124	51	25	333	252	189	115	23	1	137	213	276								391
24	106	44	21	270	211	143	61	10	1	98	178	241								327
20	92	38	18	225	161	85	39	1		98	176	227								280
16	77	32	15	177	107	65	19	1		98	163	169								231
12	61	25	12	127	89	50	6	1		88	96	131								181
10	52	22	10	101	64	11				88	94	125								153
8	44	18	9	78	30	1				54	92									128
6	34	14	7	46	1					50										98
4	24	10	5	19																69

**REQUIRED LENGTH OF RESTRAINED JOINT PIPE
FOR DIP (NON-WRAPPED)**

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS			PLUGS & VALVES							
	90°	45°	22.5°	SIZE			LENGTH			SIZE				LENGTH						
				X36	X30	X24	X20	X16	X12	X10	X8	X6		X4	X36	X30	X24	X20	X16	
36	100	42	20	163	132	96	68	35	1	57	103	128	149							188
30	88	37	18	138	104	78	48	10	1	57	88	114								162
24	75	31	15	112	87	59	25	4	1	40	74	100								135
20	65	27	13	93	67	35	16	1		41	73	94								116
16	54	22	11	73	44	27	8	1		41	68	70								96
12	43	18	8	53	37	21	6	1		37	40	54								75
10	37	15	7	42	26	5				21	39	52								63
8	30	13	6	32	12	1				22	38									53
6	24	10	5	19	1					21										41
4	17	7	3	8																29

NOTE:

SEE RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 8 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR DIP	UG-9
REV. BY CLB/BR	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL			
PAGE 109			

AA-Standard.dwg
1/16/07 12:00 - Manatee County - Palmetto Point Water Main Replacement 66-0172.00 Typical Details.dwg, Layout: 110

DES BY CKM	PROJ NO 66-0172.00	NO	DATE	REVISION
DR BY AD				
CHK BY CKM	DATE NOV 2019			

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
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8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

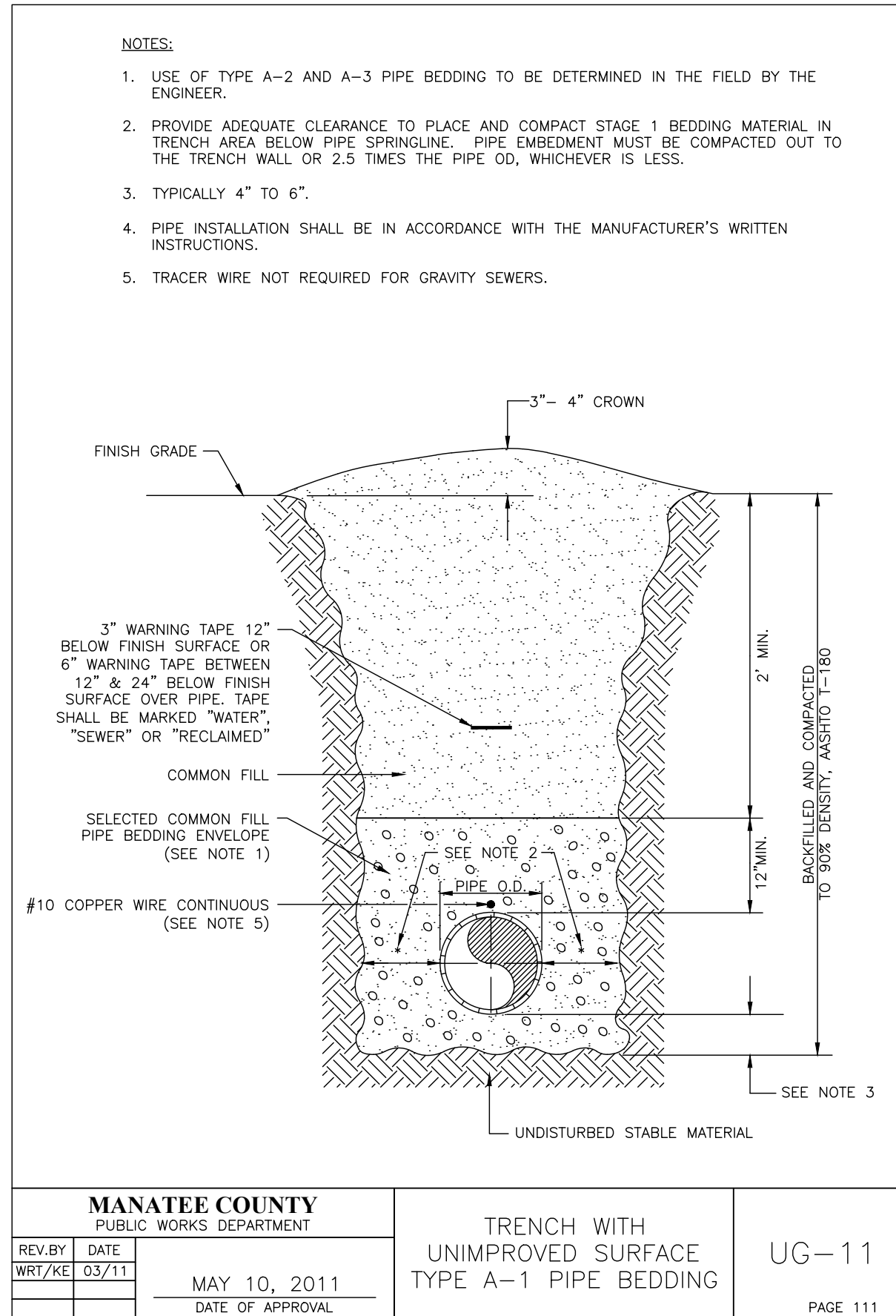
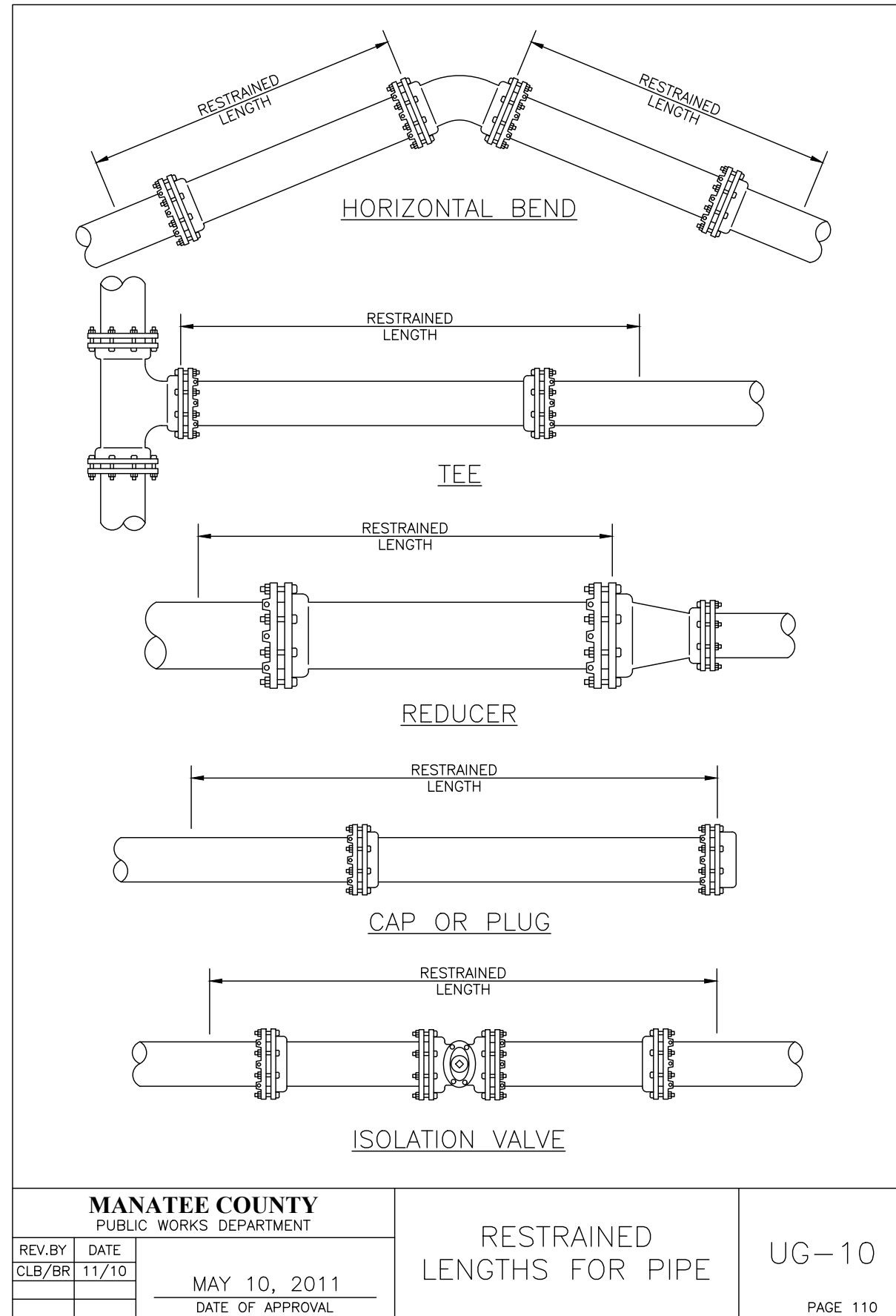
**PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS**



TYPICAL DETAILS

SHEET NO.
110

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



AA-Standard.dwg
6/16/07 12:00 - Manatee County - Palmetto Point Water Main Drawings (66-0172.00 Typical Details.dwg, Layout: 111)

DES BY	CKM			
DR BY	AD	PROJ NO	66-0172.00	
CHK BY	CKM	DATE	NOV 2019	NO DATE REVISION

PROFESSIONAL OF RECORD:
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TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



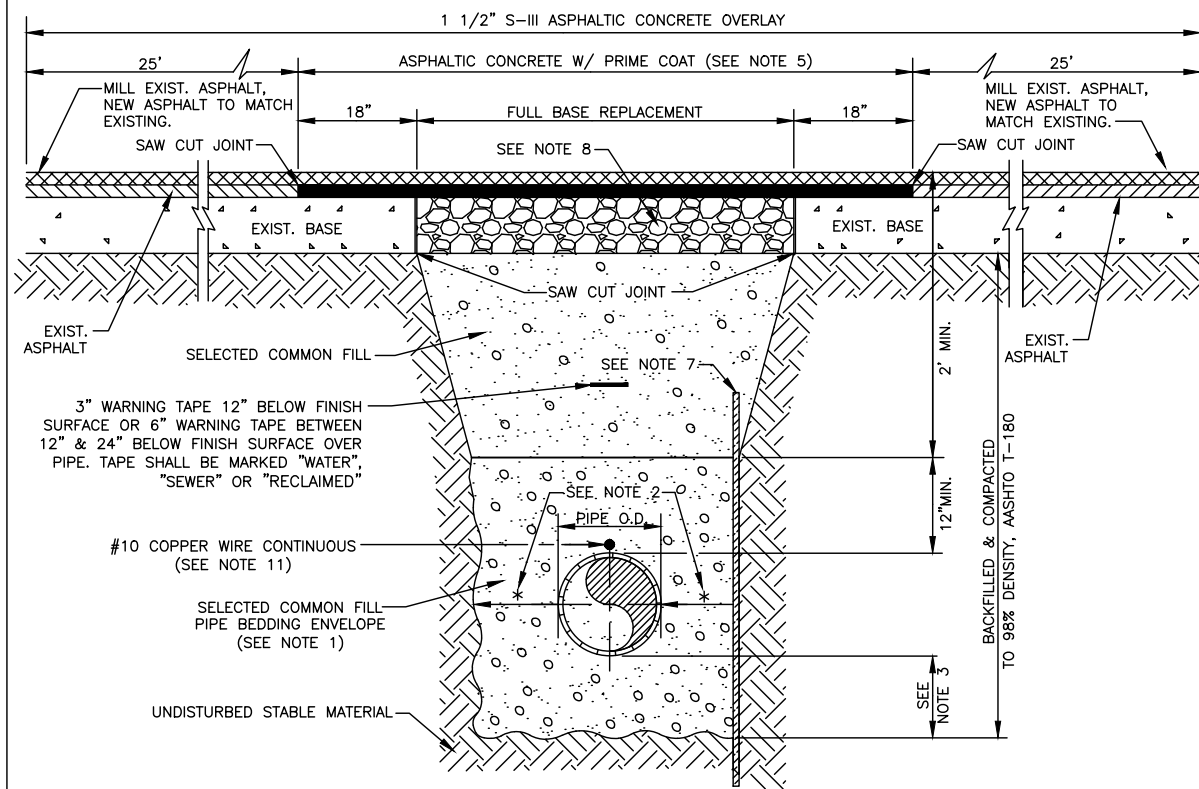
TYPICAL DETAILS

SHEET NO.
111

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTES:

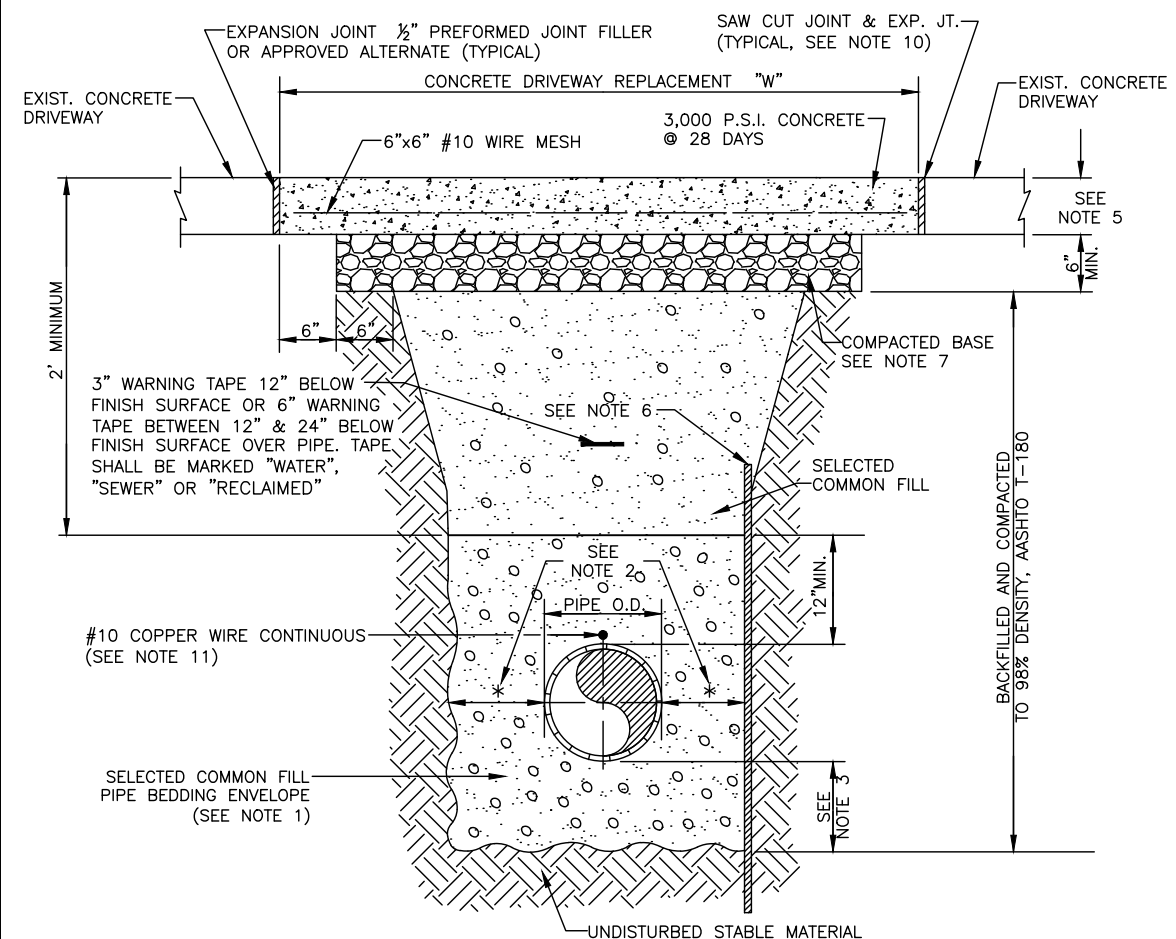
1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1 1/4 INCH, WHICHEVER IS GREATER.
6. MILL 25' BACK FROM TRENCH SAW CUT. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY LIMITS ARE FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
8. BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE.
9. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-12
REV. BY WRT/KE	DATE 03/11		
MAY 10, 2011 DATE OF APPROVAL		PAGE 112	

NOTES:

1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. THICKNESS TO MATCH EXISTING OR BE 6" MINIMUM, WHICHEVER IS GREATER.
6. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISH GRADE OR 12" BELOW SUBGRADE.
7. BASE SHALL BE COMPACTED 6" MINIMUM THICKNESS OF APPROVED MATERIAL.
8. DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED CONSTRUCTION STANDARDS OF THE MANATEE COUNTY TRANSPORTATION DEPARTMENT.
9. IF THE DRIVEWAY IS 12' OR WIDER, SAWCUT AN EXPANSION JOINT ALONG THE CENTER OF THE DRIVEWAY (3/8" WIDE AND 1/2" DEEP) AFTER THE CONCRETE HAS SET.
10. IF THERE IS AN EXISTING EXPANSION JOINT WITHIN 3' OF THE PROPOSED JOINT, EXTEND DRIVEWAY REPLACEMENT TO THE EXISTING JOINT.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY CLB/BR	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 114	

AA-Standard.dwg
1/16/2012 10:00 AM
Manatee County - Palmetto Point Water Main Replacement (66-0172.00) Typical Details.dwg, Layout: 112

DES BY CKM	PROJ NO 66-0172.00	NO	DATE	REVISION
DR BY AD				
CHK BY CKM	DATE NOV 2019			

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS

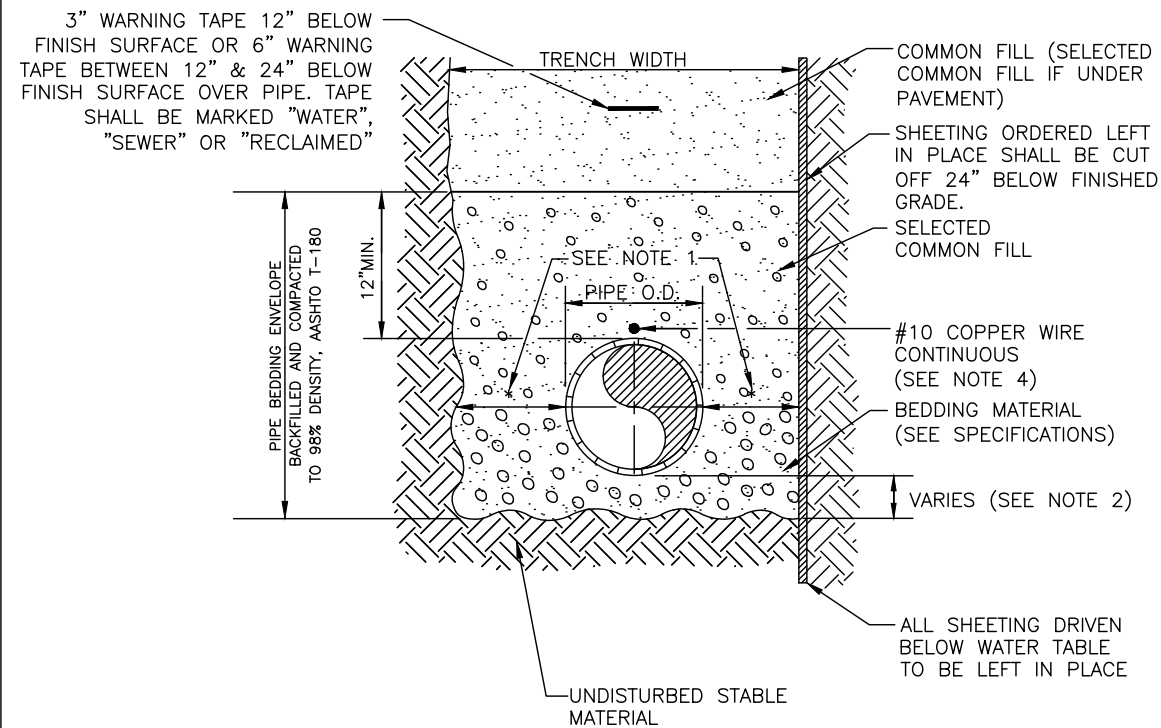


TYPICAL DETAILS

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NOTES:

1. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
2. TYPICALLY 4" TO 6".
3. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV. BY	DATE
CLB/BR	11/10

MAY 10, 2011
DATE OF APPROVAL

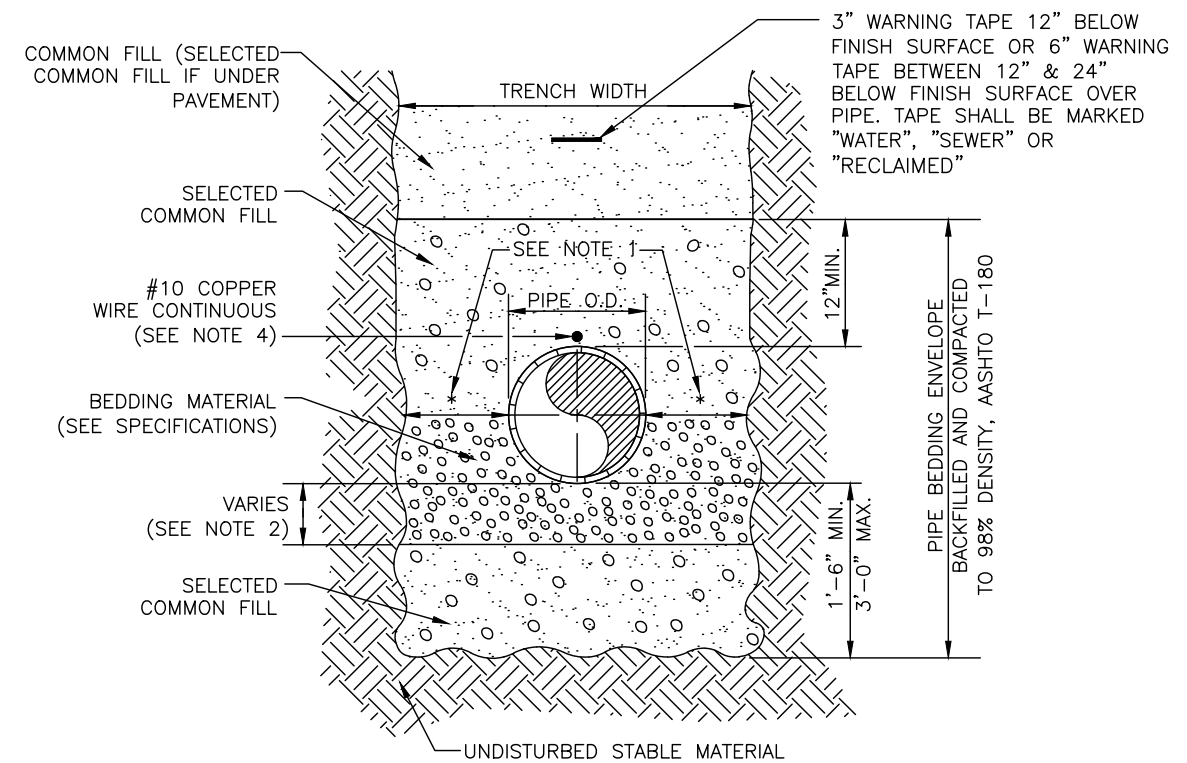
TRENCH WITH TYPE
A-2 PIPE BEDDING

UG-15

PAGE 115

NOTES:

2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV. BY	DATE
CLB/BR	11/10

MAY 10, 2011
DATE OF APPROVAL

TRENCH WITH TYPE
A-3 PIPE BEDDING

UG-16

PAGE 116

AA-Standard.dwg
1/16/01/172.00 - Manatee County - Palmetto Point Water Main Replacement/66-0172.00 Typical Details.dwg, Layout: 113

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

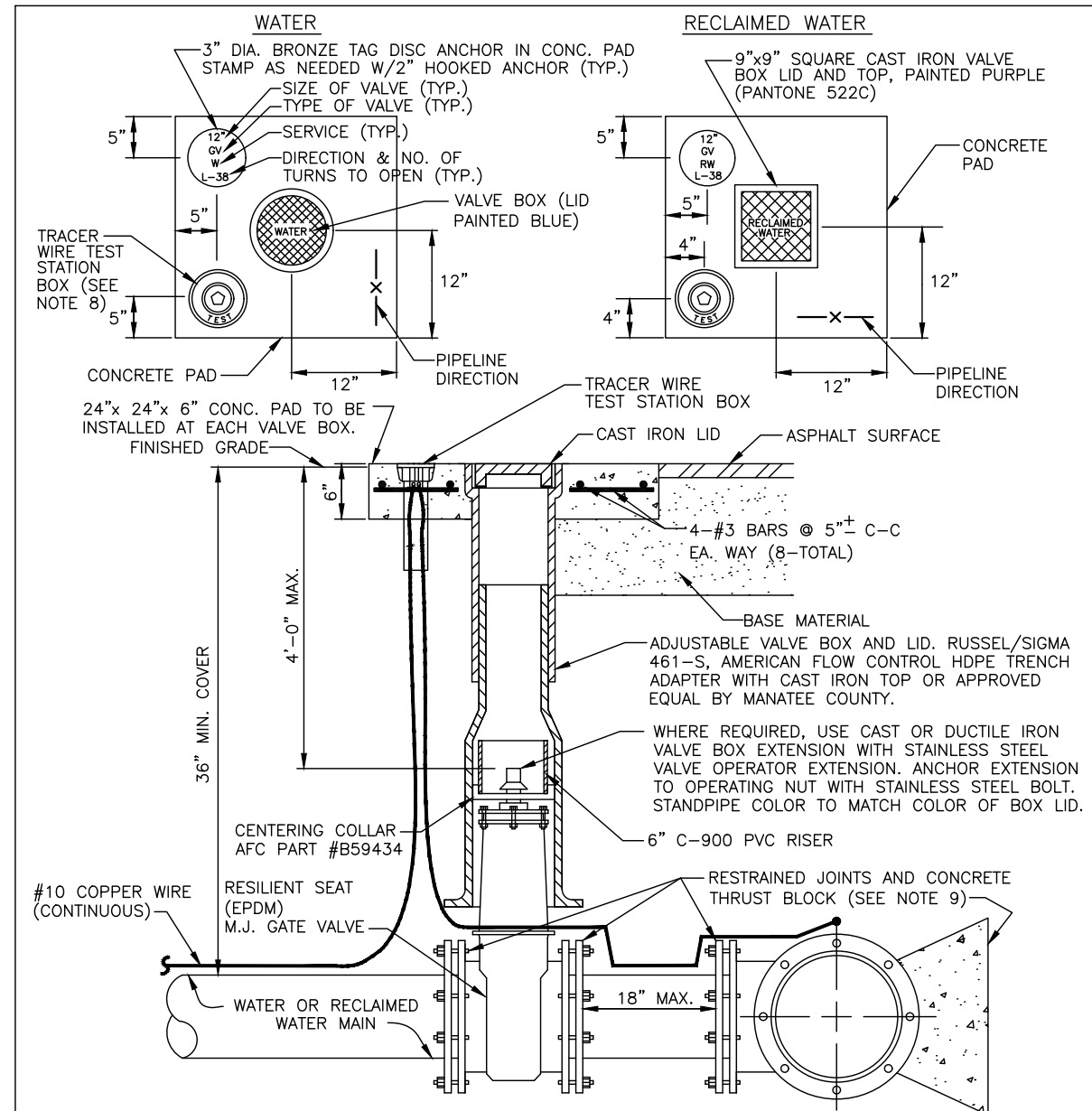
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



TYPICAL DETAILS

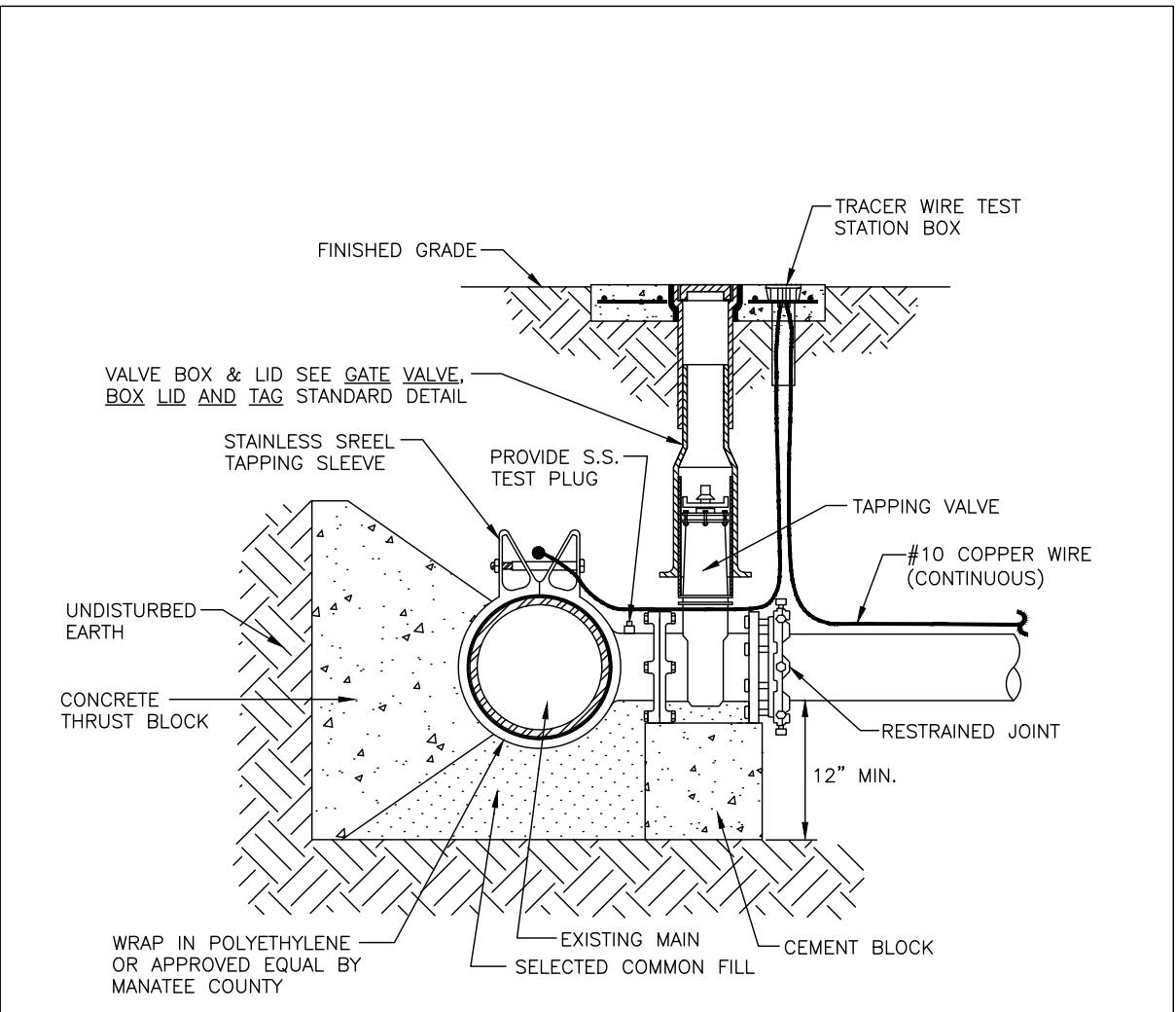
SHEET NO.
113

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- NOTES:**
- "WV" OR "RWV" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE. IF NO CURB, INSTALL A BLUE DISC WITH "WV" OR PURPLE DISC WITH "RWV" AND A 1/8"x1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE.
 - ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
 - WATER VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS.
 - PRECAST CONCRETE PADS & THRUST BLOCKS SHALL NOT BE USED.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
 - FOR VALVES 16" AND LARGER, USE BUTTERFLY VALVES.
 - PIPELINE DIRECTION TO BE IMPRESSED INTO NEWLY POURED CONCRETE PAD.
 - TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALVE BOX PAD IF THE GATE VALVE IS LOCATED WITHIN 200 FEET OF A WATER SERVICE, BLOW-OFF, BACKFLOW PREVENTER OR FIRE HYDRANT THAT HAS A TRACER WIRE BOX.
 - WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES." BINGHAM & TAYLOR P200NFG FOR NORMAL YARD SERVICE. WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE P525RD CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, LID AND TAG	UW-2
REV. BY CLB/KE	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 120	



ELEVATION

- NOTES:**
- PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER OR 150 PSI FOR FORCE MAIN.
 - ALL FITTINGS TO BE WRAPPED WITH 20 MIL VISQUEEN AT THRUST BLOCK.
 - ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
 - ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JOINT OR FITTING.
 - CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
 - WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."
 - TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TAPPING SLEEVE AND VALVE	UW-4
REV. BY CLB/KE	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 122	

AA-Standard.dwg
UW-0172.00 - Manatee County - Palmetto Point Water Main Replacement (66-0172.00 Typical Details.dwg, Layout: 114)

DES BY CKM	PROJ NO 66-0172.00	NO	DATE	REVISION
DR BY AD				
CHK BY CKM	DATE NOV 2019			

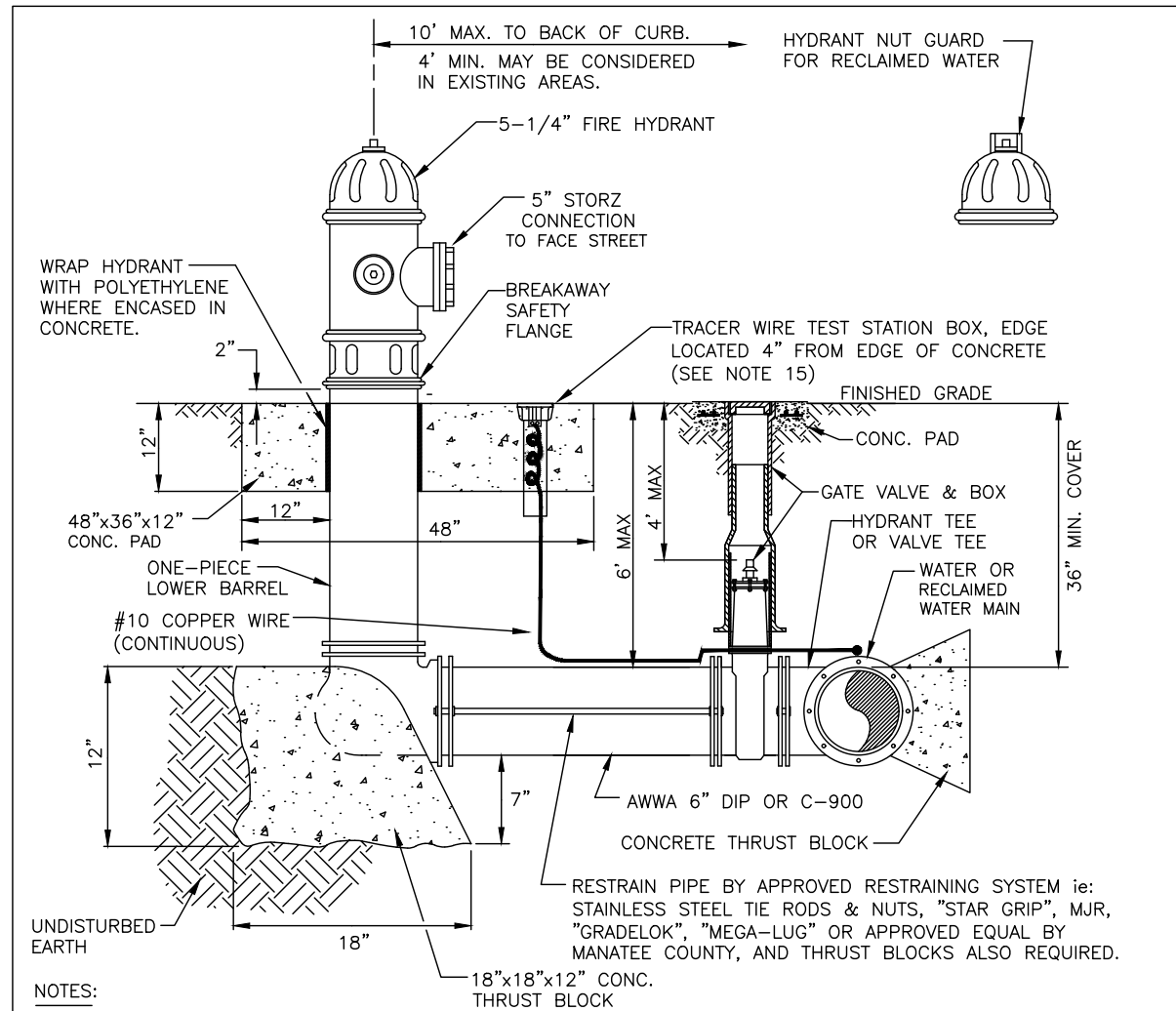
PROFESSIONAL OF RECORD:
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TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



TYPICAL DETAILS

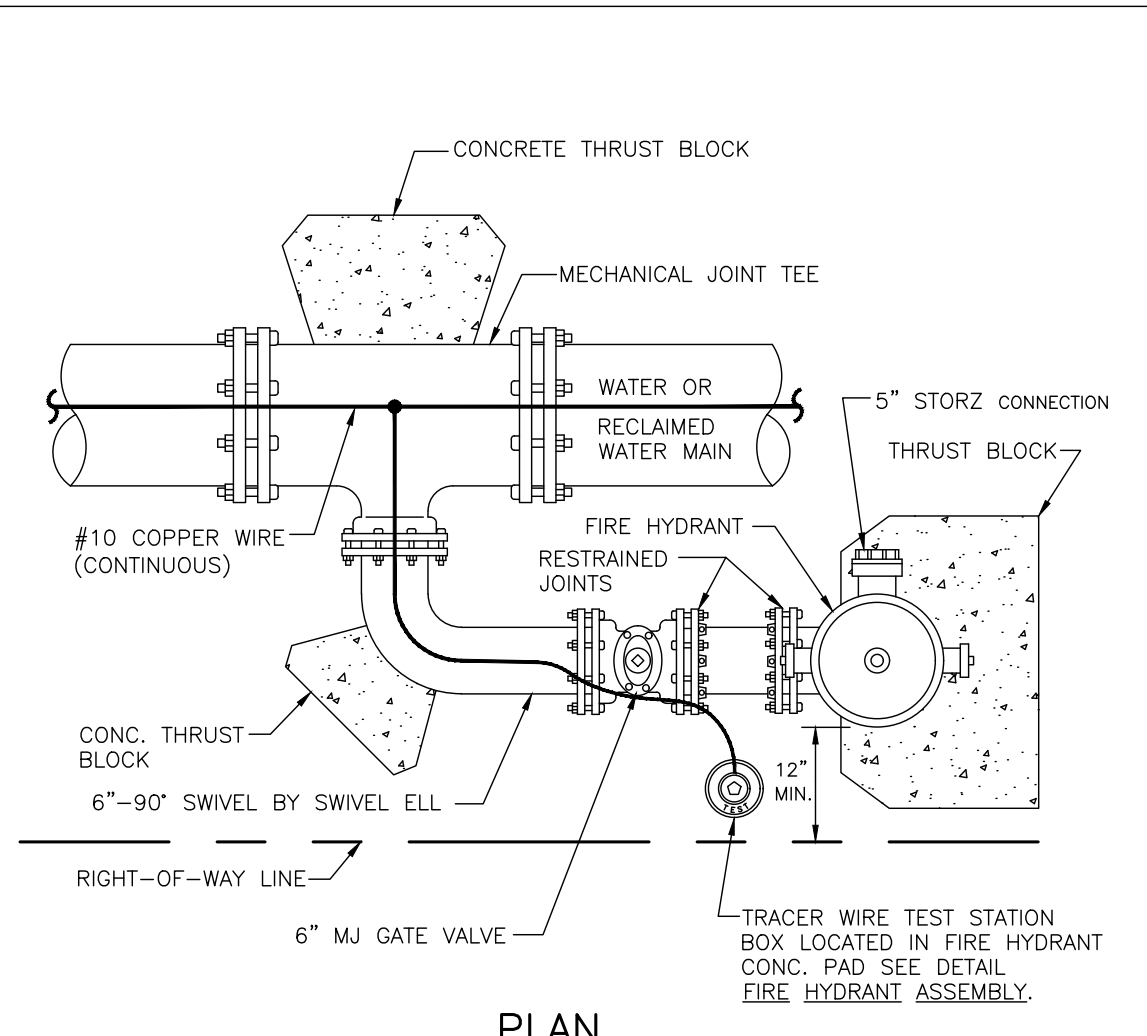
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NOTES:

1. WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB. WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.
3. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER AND PURPLE (PANTONE 522C) FOR RECLAIMED WATER. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION.
4. FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
5. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
6. FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOK" OFFSET FITTING.
7. RAISED REFLECTIVE PAVEMENT MARKER (BLUE) FOR POTABLE WATER (PURPLE) FOR RECLAIMED WATER. SHALL BE INSTALLED AT CENTERLINE OF PAVEMENT ADJACENT TO EACH HYDRANT.
8. PRECAST CONCRETE THRUST BLOCKS & PADS SHALL NOT BE USED.
9. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
10. FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
11. IN-LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
12. HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER MAIN UNLESS OTHERWISE APPROVED.
13. THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC., PER THE FLORIDA FIRE PREVENTION CODE.
14. SEE STANDARD DETAIL GATE VALVE, BOX, LID AND TAG.
15. SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP THE SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY	UW-5
REV. BY CLB/KE	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 123	



PLAN

NOTE:

1. THIS DETAIL FOR USE ONLY WHEN THE WATER MAIN IS LOCATED TOO CLOSE TO THE RIGHT-OF-WAY LINE TO USE THE FIRE HYDRANT ASSEMBLY DETAIL.
2. SEE STANDARD DETAIL GATE VALVE, BOX, LID AND TAG.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT WITH LOCKED 90° BEND	UW-6
REV. BY CLB/KE	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 124	

AA-Standard.dwg
1/16/12 12:00 - Manatee County - Palmetto Point Water Main Drawings (66-0172-00 Typical Details.dwg) Layout: 115

DES BY CKM	PROJ NO 66-0172-00	NO	DATE	REVISION
DR BY AD				
CHK BY CKM	DATE NOV 2019			

PROFESSIONAL OF RECORD:
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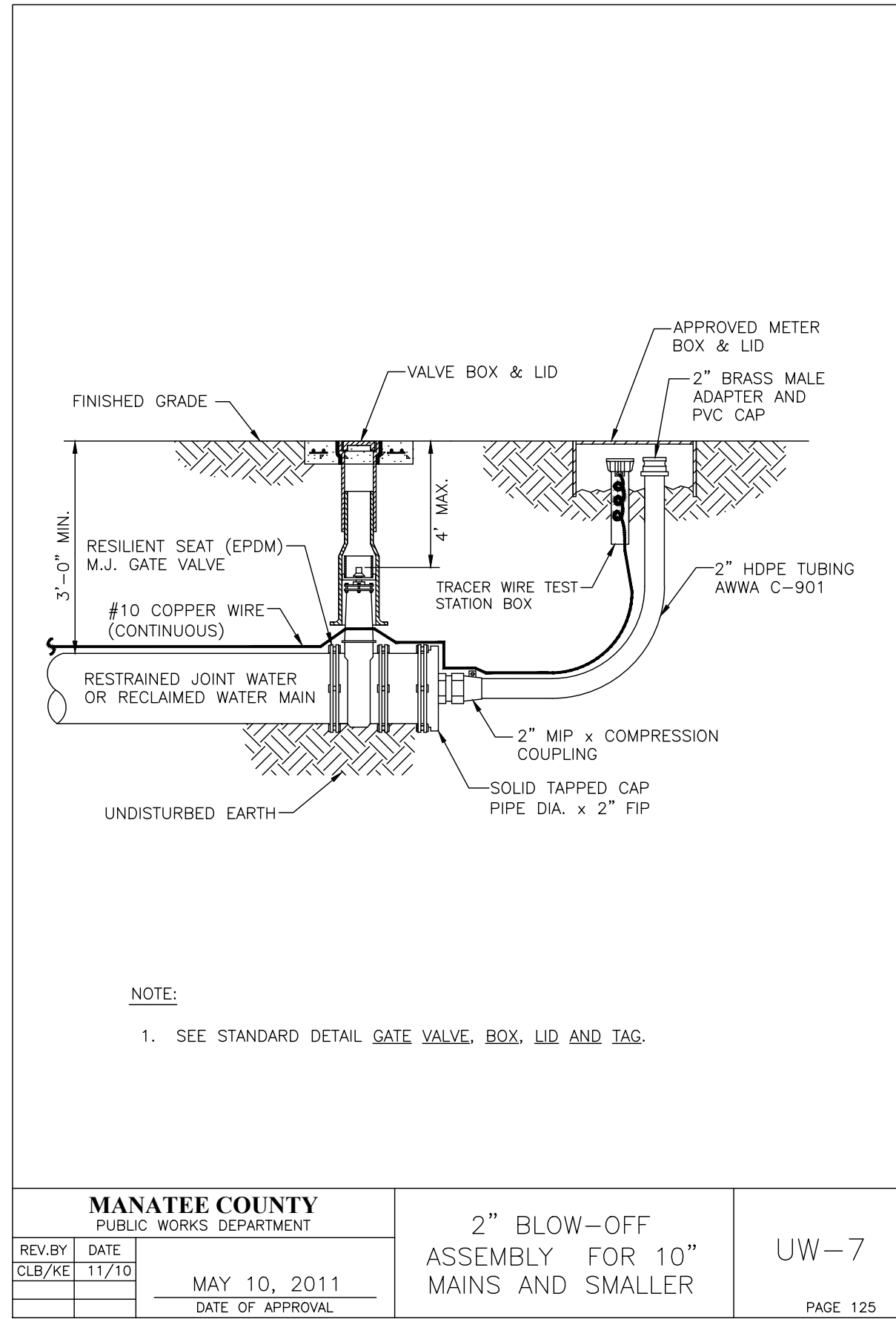
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



TYPICAL DETAILS

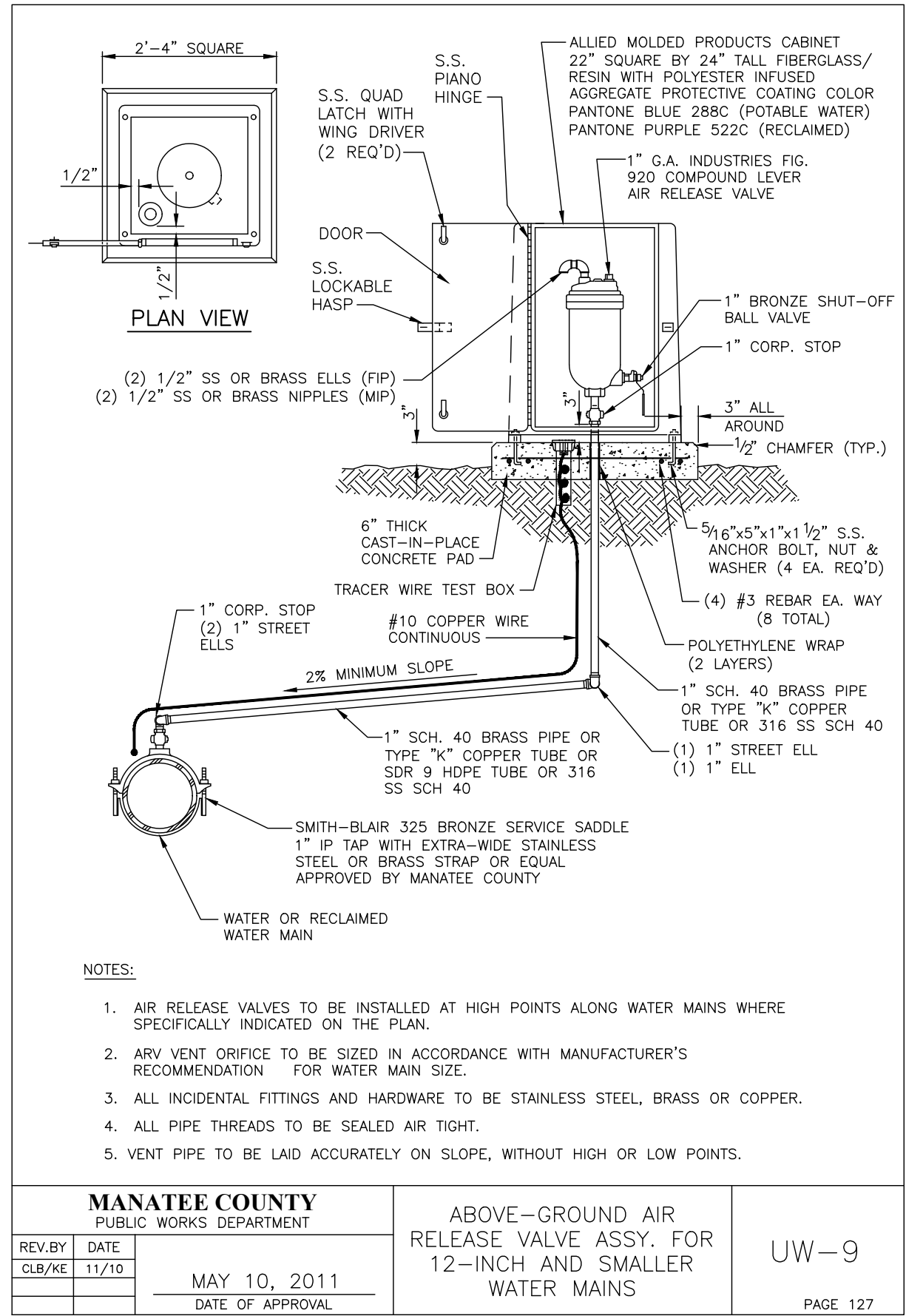
SHEET NO.
115

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NOTE:
1. SEE STANDARD DETAIL GATE VALVE, BOX, LID AND TAG.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		2" BLOW-OFF ASSEMBLY FOR 10" MAINS AND SMALLER	UW-7
REV. BY CLB/KE	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 125	



- NOTES:**
- AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS ALONG WATER MAINS WHERE SPECIFICALLY INDICATED ON THE PLAN.
 - ARV VENT ORIFICE TO BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR WATER MAIN SIZE.
 - ALL INCIDENTAL FITTINGS AND HARDWARE TO BE STAINLESS STEEL, BRASS OR COPPER.
 - ALL PIPE THREADS TO BE SEALED AIR TIGHT.
 - VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR 12-INCH AND SMALLER WATER MAINS	UW-9
REV. BY CLB/KE	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 127	

AA-Standard.dwg
1/16/01/172.00 - Manatee County - Palmetto Point Water Main Drawings (66-0172.00 Typical Details.dwg, Layout: 116)

DES BY CKM	PROJ NO 66-0172.00	NO	DATE	REVISION
DR BY AD				
CHK BY CKM	DATE NOV 2019			

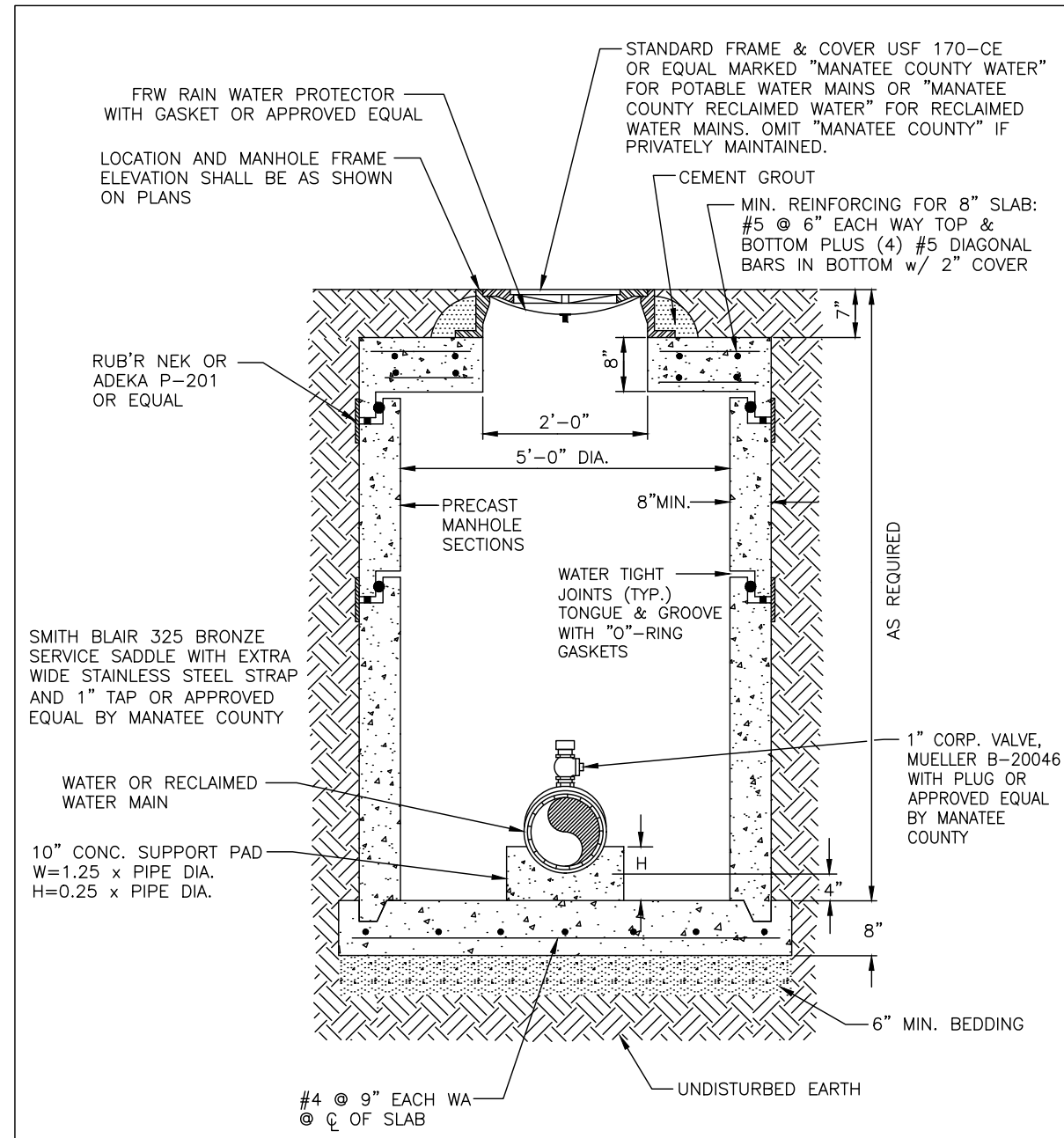
PROFESSIONAL OF RECORD:
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AYRES ASSOCIATES
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TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



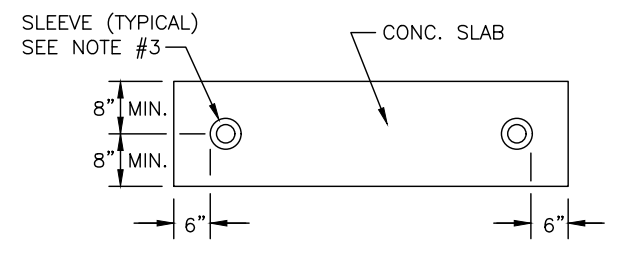
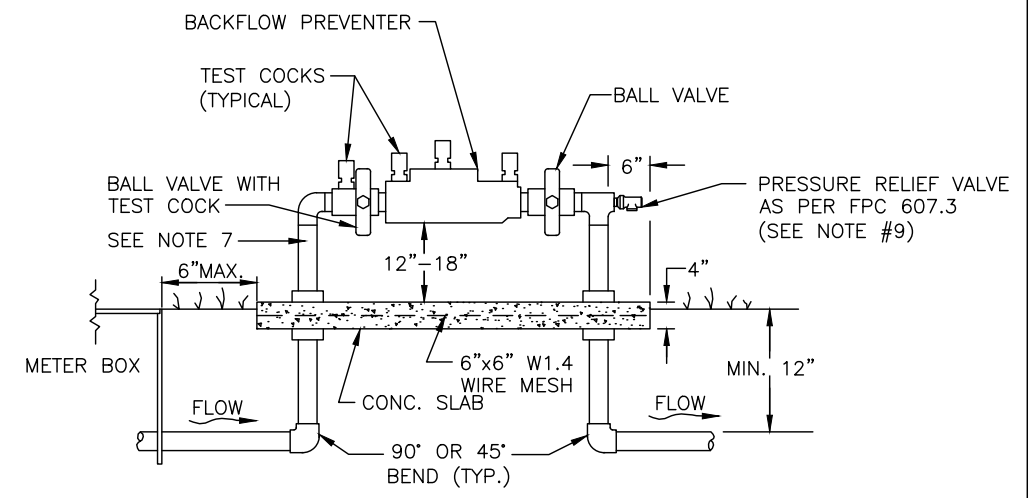
TYPICAL DETAILS

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- NOTES:**
1. AUTOMATIC AIR RELEASE VALVES SHALL NOT BE INSTALLED BELOW GRADE.
 2. SADDLE STRAPS, NUTS, BOLTS AND WASHERS TO BE STAINLESS STEEL.
 3. MANUALLY OPERATED AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS OF MAIN WHERE SPECIFICALLY INDICATED ON THE PLANS.
 4. ALL PIPE PENETRATING MANHOLE SHALL HAVE RESILIENT PIPE TO MANHOLE SEALS PER ASTM C-923, XP BY A-LOK OR EQUAL.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		BELOW GRADE MANUALLY OPERATED AIR RELEASE VALVE	UW-11
REV. BY CLB/KE	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 129	



- NOTES:**
1. BACKFLOW DEVICE MUST BE INSTALLED IMMEDIATELY DOWNSTREAM OF METER, AS SHOWN ABOVE
 2. COPPER PIPE TYPE "K" OR BRASS PIPE MINIMUM SCHEDULE 40 SHALL BE USED TO A MINIMUM DEPTH OF 12" BELOW GRADE.
 3. PIPES PASSING THROUGH OR ENCASED IN CONCRETE MUST BE PROPERLY PROTECTED AND SLEEVED.
 4. THE SYSTEM MUST MEET ALL REQUIREMENTS OF THE FLORIDA PLUMBING CODE (LATEST EDITION) AND THE MANATEE COUNTY BACKFLOW PREVENTION ORDINANCE (LATEST EDITION).
 5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
 6. BACKFLOW PREVENTER SHALL BE TESTED AT THE TIME OF INSTALLATION.
 7. PRESSURE REDUCING VALVE REQUIRED UPSTREAM OF BACKFLOW IF SYSTEM PRESSURE EXCEEDS 80 PSI.
 8. 3' MINIMUM CLEARANCE FROM LANDSCAPING PLANTS TO EDGE OF CONCRETE SLAB AND CLEAR OPENING FOR ACCESS FROM STREET.
 9. IN ADDITION TO THE PRV, THE BUILDING DEPT. MAY REQUIRE AN APPROVED DEVICE FOR THERMAL EXPANSION CONTROL.
 10. REFER TO DETAIL WATER METER & BACKFLOW PREVENTER FOR LIFT STATIONS FOR WATER SERVICE AT SEWAGE PUMPING STATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		3/4" & 1" BACKFLOW PREVENTER	UW-12
REV. BY CLB/BR	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 130	

AA-Standard.dwg
1/16/2012 10:00 AM
Manatee County - Palmetto Point Water Main Replacement 66-0172.00 Typical Details.dwg Layout:117

DES BY CKM	PROJ NO 66-0172.00	NO	DATE	REVISION
DR BY AD				
CHK BY CKM	DATE NOV 2019			

PROFESSIONAL OF RECORD:
CHRISTOPHER K. MARTIN, P.E. #66598
AYRES ASSOCIATES
8875 HIDDEN RIVER PKWY, SUITE 200
TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



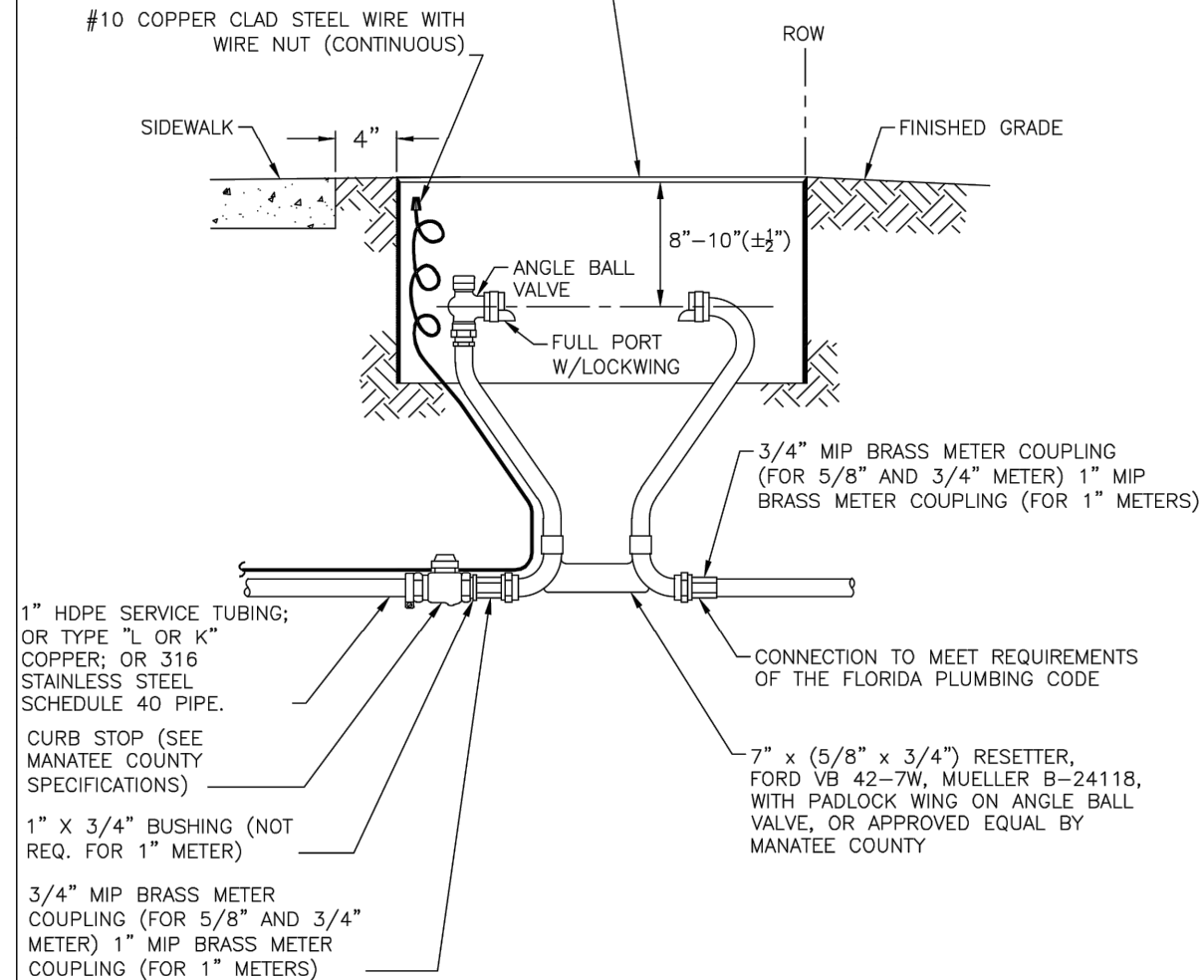
TYPICAL DETAILS

SHEET NO.
117

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CAST IRON OVAL METER BOX, SIP INDUSTRIES/
SERMAPORE PAINTED BLUE AND MARKED "WATER
METER" FOR POTABLE WATER OR PURPLE
(PANTONE 522C) FOR RECLAIMED WATER AND
MARKED "RECLAIMED METER"

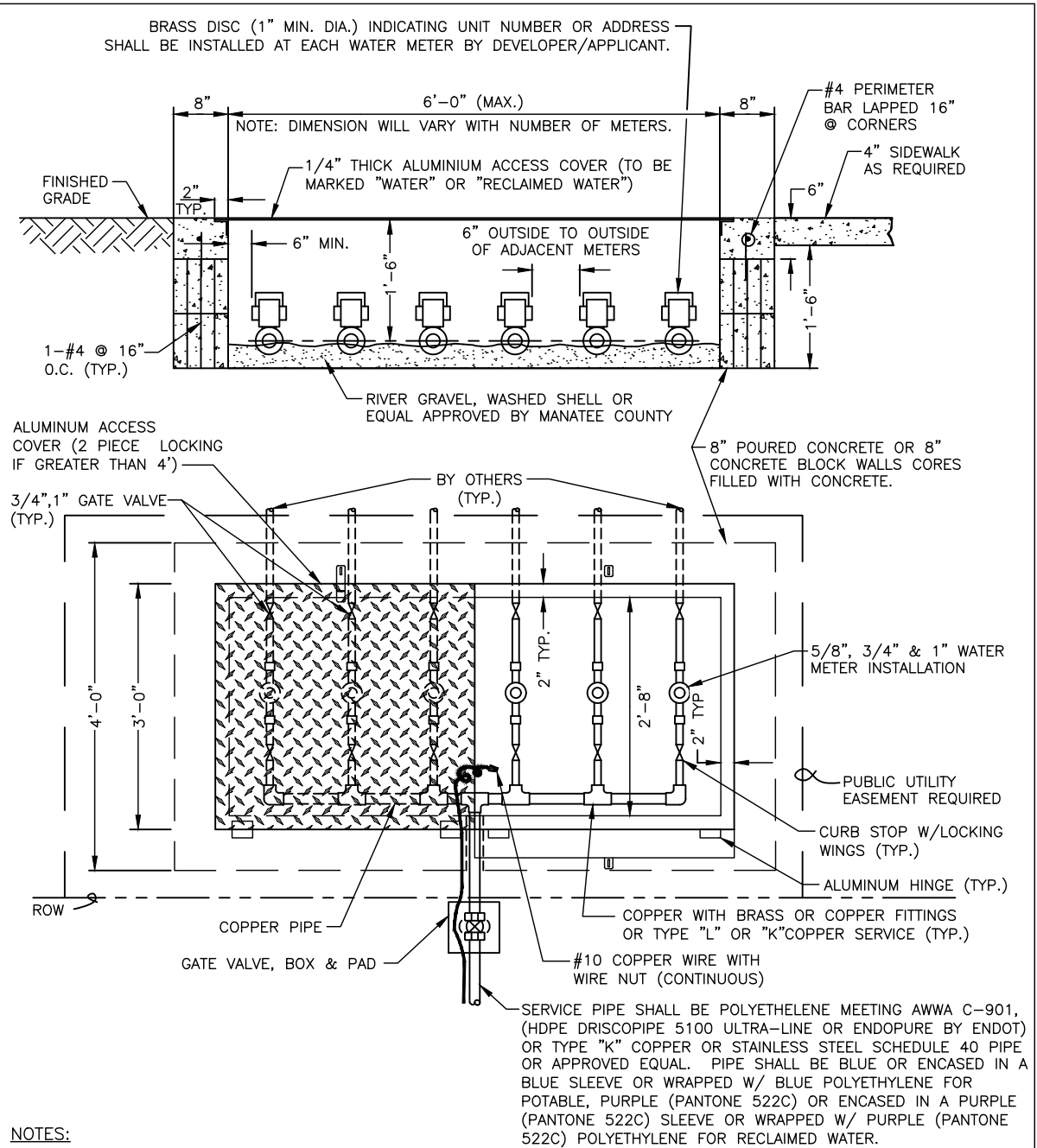
SIP INDUSTRIES/SERMAPORE
MODEL NUMBERS:
WATER: 6423-WNL (NON-LOCKING)
6423-WL (LOCKING)
RECLAIMED: 6423-RWNL (NON-LOCKING)
6423-RWL (LOCKING)



NOTES:

1. FORD 40 SERIES RESETTERS VB43 AND VB44 OR EQUAL FOR 3/4" OR 1" METERS ALSO ALLOWED.
2. METER BOX AND RESETTER ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNTY, METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
3. FOR COMPLETE SERVICE CONNECTION ASSEMBLY, SEE DETAIL TYPICAL SERVICE CONNECTION.
4. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE R/W IS ONE FOOT (CUL-DE-SAC W/ MEDIAN) A 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE ROW.
5. 3' MINIMUM CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF METER, CLEAR ACCESS OPENING TO STREET.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		METER BOX ASSEMBLY FOR 5/8" X 3/4", 3/4" & 1" METERS	UW-17
REV. BY	DATE		
		DATE OF APPROVAL	



NOTES:

1. BACKFLOW PREVENTERS MAY BE REQUIRED DOWN STREAM OF METERS. IF A BACKFLOW PREVENTER IS REQUIRED, THE BASE SLAB SHALL BE INSTALLED NO GREATER THAN 6" FROM THE METER VAULT.
2. ALUMINUM ACCESS COVER SHALL HAVE RECESSED LIFTING HANDLES AND BE CAPABLE OF SUPPORTING A LOAD OF 75 P.S.F. COVER LIFTING FORCE TO BE NO MORE THAN 50 POUNDS.
3. PUBLIC UTILITY EASEMENT REQUIRED FOR METER READING AND MAINTENANCE, METER VAULT TO BE MAINTAINED BY WATER CUSTOMER.
4. SEE GATE VALVE, BOX, LID AND TAG DETAIL. CENTERING COLLAR NOT REQUIRED ON 2" GATE VALVES.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		MULTIPLE METER VAULT	UW-18
REV. BY	DATE		
CLB/BR	11/10		
		MAY 10, 2011	
		DATE OF APPROVAL	

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

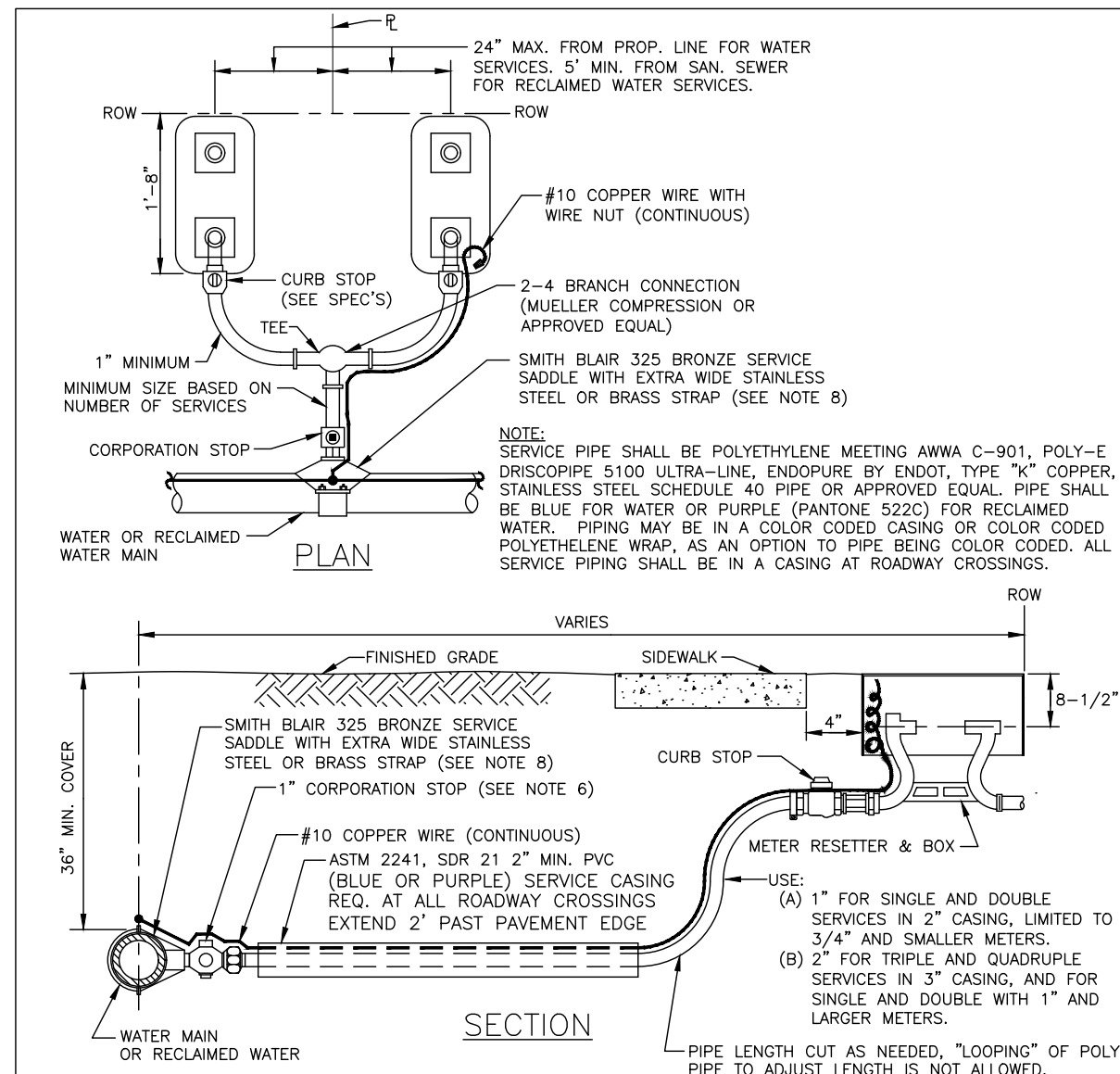
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



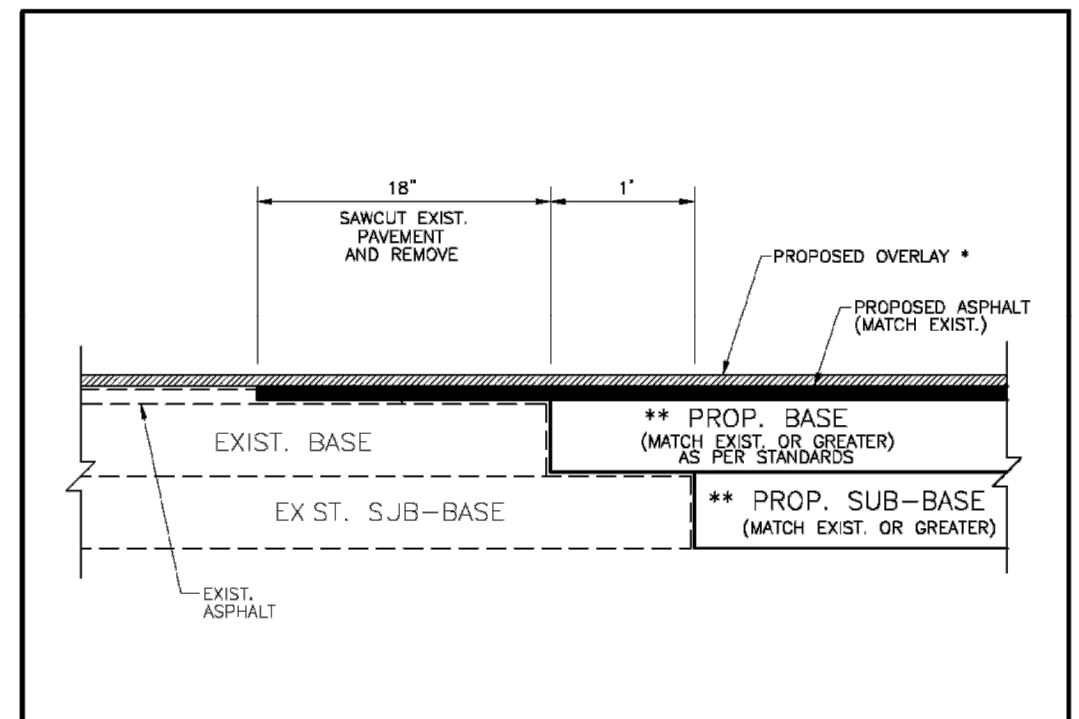
TYPICAL DETAILS

MANATEE COUNTY PUBLIC WORKS STANDARDS
PART 3 - HIGHWAY & TRAFFIC STANDARDS MANUAL



- NOTES:**
1. ALL SERVICE TAPS TO BE LOCATED IN THE FIELD. TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVALS OR WITHIN 2'-0" FROM BELL OR SPIGOT ENDS.
 2. METER BOXES & RESETTERS ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS.
 3. "WM" OR "RWM" TO BE IMPRESSED INTO THE NEWLY POURED CONCRETE CURB ALONG WITH DISTANCE IN FEET TO THE METER. IF NO CURB, INSTALL A BLUE DISC WITH "WM" OR A PURPLE DISC WITH "RWM" AND A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE DISTANCE (IN FEET) FROM THE DISC TO THE METER.
 4. #10 COPPER WIRE SHALL BE INSTALLED WITH WATER AND RECLAIMED MAIN AND ALL SERVICES. SERVICE WIRE SHALL BE CONNECTED TO THE TRACER WIRE ALONG THE MAIN.
 5. WATER AND RECLAIMED WATER SERVICE LINES TO BE 5' MINIMUM FROM SEWER SERVICE PIPES.
 6. FOR 2" SERVICES REPLACE CORPORATION STOP WITH 2" RESILIENT WEDGE FIP GATE VALVE W/BOX, LID & TAG.
 7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE ROW IS ONE FOOT (CUL-DE-SAC W/MEDIAN) A 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE ROW.
 8. FOR HDPE MAINS, USE ROMAC 306H SS OR CENTRAL PLASTICS ELECTRO FUSION CORP SADDLE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL SERVICE CONNECTION	UW-19
REV. BY CLB/BR	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 137	



- * NOTE: LIMITS OF OVERLAY - EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.
- ** NOTE: CONNECTION TO OLDER (SUBSTANDARD THICKNESS) ROADS MAY REQUIRE THICKER PROPOSED BASE AND SUB-BASE TO MEET CURRENT STANDARDS.
- SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

ROAD CONNECTION DETAIL
N.T.S.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		ROAD CONNECTION DETAIL	403.3
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			

[DRAFT 1/15/15]

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AA-Standard.dwg
1/16/07 12:00 - Manatee County - Palmetto Point Water Main Drawings (66-0172.00 Typical Details.dwg) Layout: 119

DES BY CKM	PROJ NO 66-0172.00	NO	DATE	REVISION
DR BY AD				
CHK BY CKM	DATE NOV 2019			

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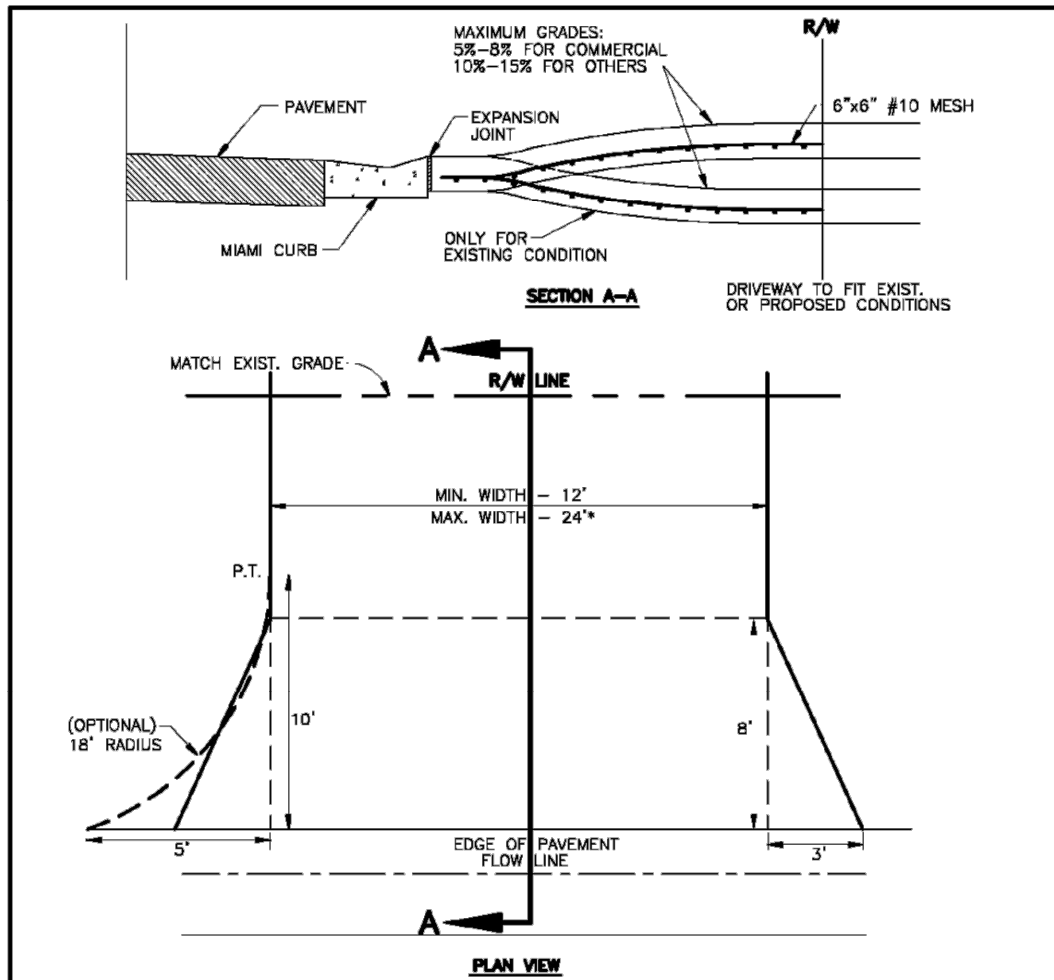
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



TYPICAL DETAILS

SHEET NO.
119

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



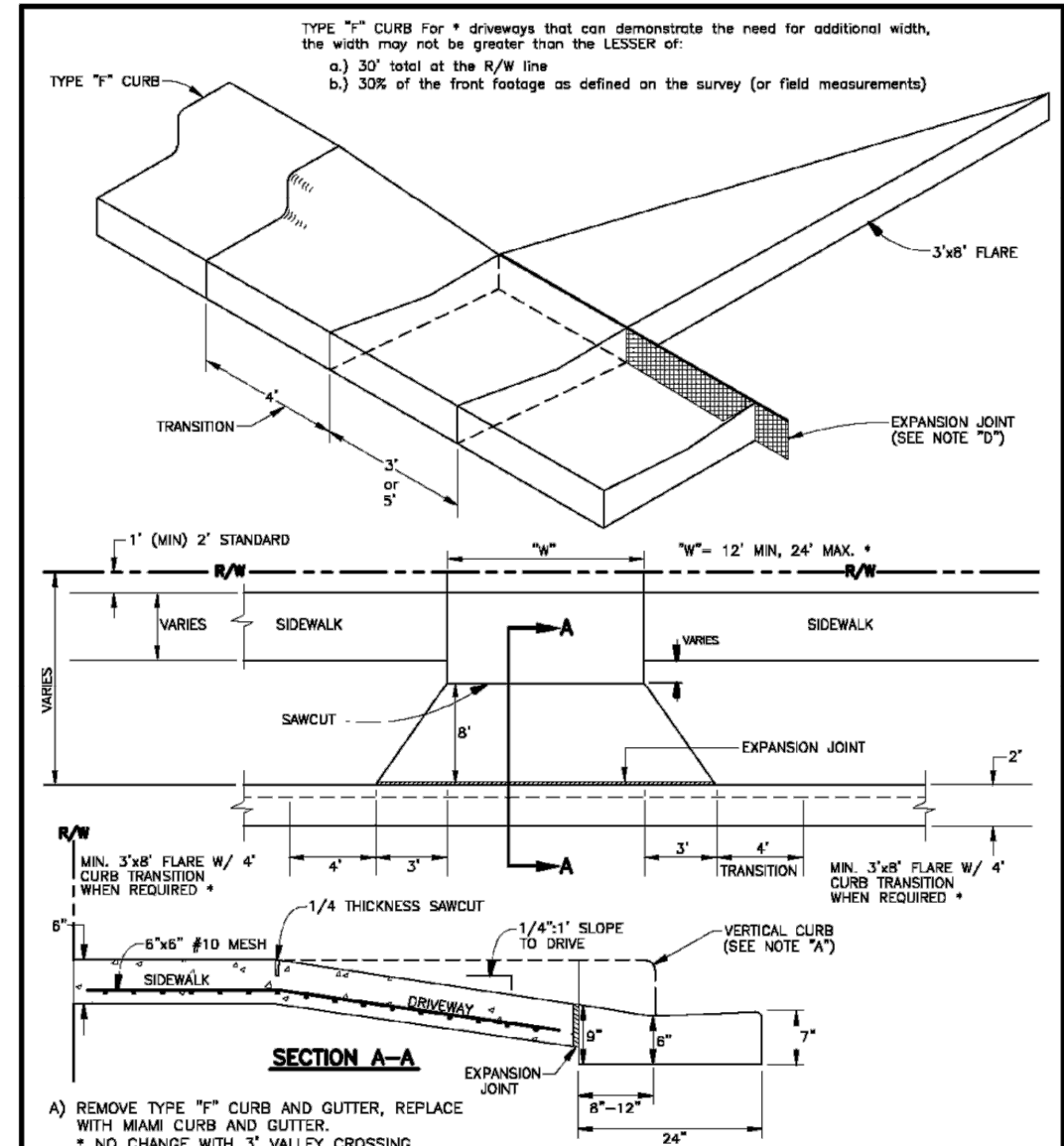
* For driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:
a.) 30' total at the R/W line
b.) 30% of the front footage as defined on the survey (or field measurement, 36' max.)

- (A) CONSTRUCT WITH 6" REINFORCED CONCRETE 3000 PSI @ 28 DAYS, 6"x6" #10 WIRE MESH FROM BACK OF CURB- TO R/W LINE.
- (B) DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED IN COMPLIANCE WITH THE NOTE (A) ON PREVIOUS PAGE (STD. 101.0)
- (C) MAINTAIN EXISTING DRAINAGE FLOWLINE. FOR PIPING SPECIFICATIONS REFER TO F.D.O.T. STANDARD SPECIFICATIONS SECTION 430. SEE NOTE 4, PAGE 100.1. SEE SECTION 200- DRAINAGE (STD. 200.0, 202.5).
- (D) 3'x8' FLARE OR 18' RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE "F" CURB TO MIAMI CURB) SEE STD. 102.2 NO CHANGE WITH 3' VALLEY CROSSINGS - SEE STDS. 201.0, 201.1, 201.2, 201.4, 201.5, 201.6.
- (E) EXPANSION JOINT 0.50" PREFORMED JOINT FILLER OR APPROVED ALTERNATE, DRIVES WIDER THAN 12' (BEYOND FLARE) PLACE JOINT ON 10' CENTER.
- (F) LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		URBAN DRIVES	101.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

[DRAFT 1/15/15]

Page T-138



- A) REMOVE TYPE "F" CURB AND GUTTER, REPLACE WITH MIAMI CURB AND GUTTER.
* NO CHANGE WITH 3' VALLEY CROSSING
- B) REMOVE EXISTING SIDEWALK, REPLACE WITH 6" CONCRETE, 6"x6" #10 MESH 3000 PSI AT 28 DAYS.
- C) DRIVEWAY CONSTRUCTED WITH 6" CONCRETE WITH 6"x6" #10 MESH 3000 PSI AT 28 DAYS
- D) EXPANSION JOINT 1/2" PREFORMED JOINT FILLER PER FDOT SECTION 932-1.1 OR APPROVED ALTERNATE
- E) 5' SIDEWALK ON LOCAL STREETS, 5' SIDEWALK ON THOROUGHFARES. MIXED USE PATHS MAY REQUIRE 8' SIDEWALKS PER LAND DEVELOPMENT CODE.
- F) SAWCUT (1/4 THICKNESS MINIMUM) ON 10' CENTERS. IF DRIVE IS WIDER THAN 12', ADD JOINTS AT 10' CENTERS.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB CUT & TRANSITION W/ T-FLARE FOR RESIDENTIAL DRIVES	101.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

[DRAFT 1/15/15]

Page T-1

AA-Standard.dwg
1/15/15 0:00 - Manatee County - Palmetto Point Water Main Replacement (66-0172.00) Typical Details.dwg, Layout: 130

DES BY	CKM	PROJ NO	66-0172.00
DR BY	AD	DATE	NOV 2019
CHK BY	CKM	NO	DATE
		REVISION	

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



TYPICAL DETAILS

SHEET NO.
120

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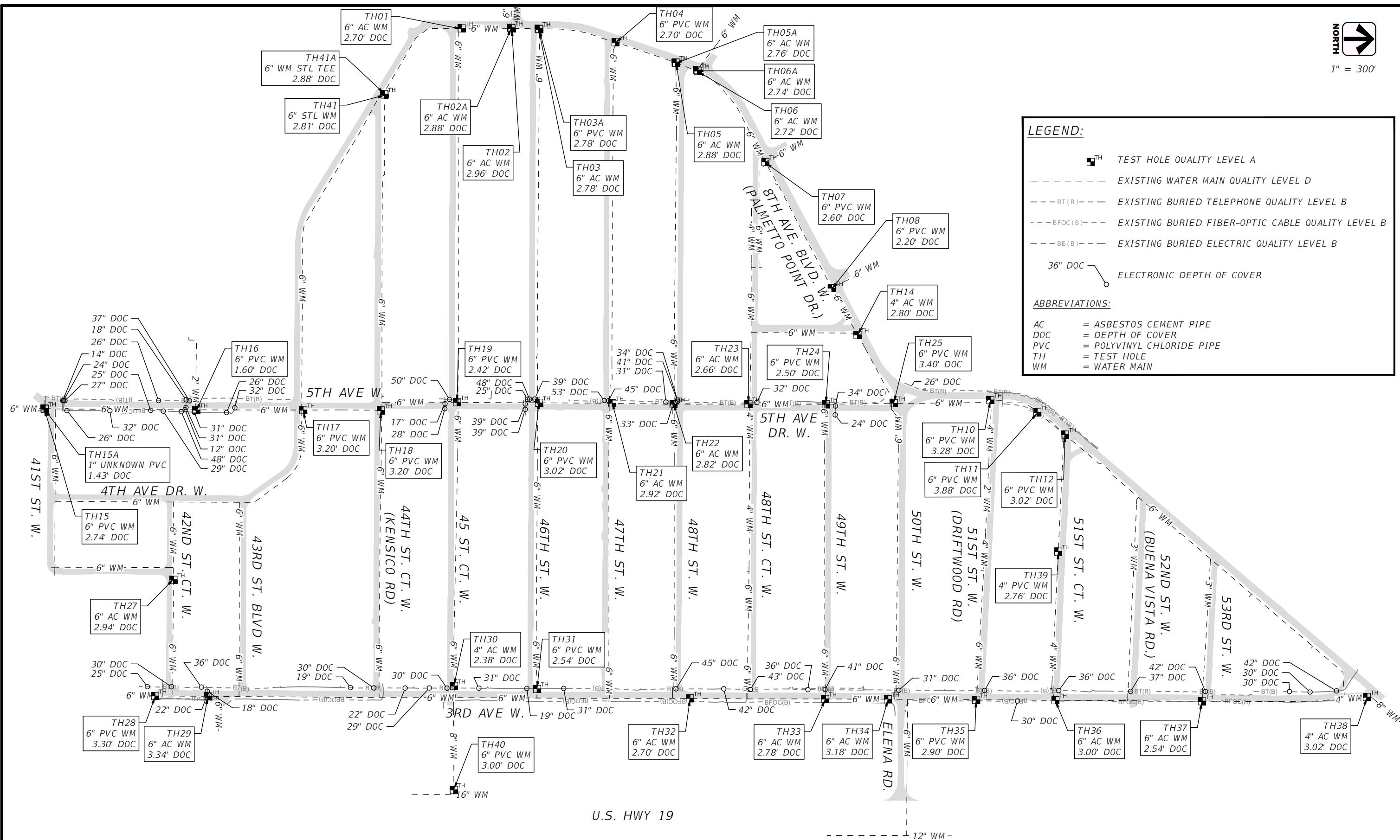


LEGEND:

- TH TEST HOLE QUALITY LEVEL A
- - - - - EXISTING WATER MAIN QUALITY LEVEL D
- - - - - BT(B) - - - - EXISTING BURIED TELEPHONE QUALITY LEVEL B
- - - - - BFOC(B) - - - - EXISTING BURIED FIBER-OPTIC CABLE QUALITY LEVEL B
- - - - - BE(B) - - - - EXISTING BURIED ELECTRIC QUALITY LEVEL B
- 36" DOC - - - - ELECTRONIC DEPTH OF COVER

ABBREVIATIONS:

- AC = ASBESTOS CEMENT PIPE
- DOC = DEPTH OF COVER
- PVC = POLYVINYL CHLORIDE PIPE
- TH = TEST HOLE
- WM = WATER MAIN



AA-Standard.dwg
 DESIGNED BY: CKM
 DRAWN BY: AD
 CHECKED BY: CKM
 DATE: NOV 2019
 PROJECT NO: 66-0172.00
 MANATEE COUNTY, PALMETTO POINT WATER MAIN REPLACEMENT, LAYOUT: SUE-1

DESIGNED BY	CKM	DATE	NOV 2019
DRAWN BY	AD	DATE	
CHECKED BY	CKM	DATE	

PROFESSIONAL OF RECORD:
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PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS



SUBSURFACE UTILITY ENGINEERING PLAN VIEW

SHEET NO. **SUE-01**

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SUMMARY OF VERIFIED UTILITIES

TEST HOLE #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIAL	DEPTH OF COVER	UTILITY DIRECTION	NORTHING	EASTING	COMMENTS
TH01	MANATEE COUNTY, WATER MAIN	6"	ACP	2.70'	N-S	1171259.9	470600.8	
TH02	MANATEE COUNTY, WATER MAIN	6"	ACP	2.96'	N-S	1171428.6	470601.2	
TH02A	MANATEE COUNTY, WATER MAIN	6"	ACP	2.88'	E-W	1171426.5	470599.7	
TH03	MANATEE COUNTY, WATER MAIN	6"	ACP	2.78'	N-S	1171519.4	470602.2	
TH03A	MANATEE COUNTY, WATER MAIN	6"	PVC	2.78'	E-W	1171521.7	470603.5	
TH04	MANATEE COUNTY, WATER MAIN	6"	PVC	2.70'	N-S	1171777.7	470647.5	
TH05	MANATEE COUNTY, WATER MAIN	6"	ACP	2.88'	N-S	1171982.3	470716.4	
TH05A	MANATEE COUNTY, WATER MAIN	6"	ACP	2.76'	E-W	1171980.2	470716.3	
TH06	MANATEE COUNTY, WATER MAIN	6"	ACP	2.72'	N-S	1172055.0	470744.1	
TH06A	MANATEE COUNTY, WATER MAIN	6"	ACP	2.74'	E-W	1172053.0	470741.5	
TH07	MANATEE COUNTY, WATER MAIN	6"	PVC	2.60'	NE-SW	1172282.4	471051.0	FOUND 6"x6" TEE
TH08	MANATEE COUNTY, WATER MAIN	6"	PVC	2.20'	NE-SW	1172505.7	471476.2	
TH09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO TEST HOLE PERFORMED
TH10	MANATEE COUNTY, WATER MAIN	6"	PVC	3.28'	N-S	1173039.8	471852.8	
TH11	MANATEE COUNTY, WATER MAIN	6"	PVC	3.88'	NE-SW	1173198.1	471894.4	
TH12	MANATEE COUNTY, WATER MAIN	6"	PVC	3.20'	NE-SW	1173290.9	471969.2	
TH13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO TEST HOLE PERFORMED
TH14	MANATEE COUNTY, WATER MAIN	4"	ACP	2.80'	NE-SW	1172592.4	471633.7	
TH15	MANATEE COUNTY, WATER MAIN	6"	PVC	2.74'	N-S	1169855.4	471881.6	
TH15A	UNKNOWN	1"	PVC	1.43'	N-S	1169856.4	471883.1	
TH16	MANATEE COUNTY, WATER MAIN	6"	PVC	1.60'	N-S	1170366.3	471886.0	
TH17	MANATEE COUNTY, WATER MAIN	6"	PVC	3.20'	N-S	1170726.5	471886.6	
TH18	MANATEE COUNTY, WATER MAIN	6"	PVC	3.20'	N-S	1170987.5	471887.7	
TH19	MANATEE COUNTY, WATER MAIN	6"	PVC	2.42'	N-S	1171244.1	471860.3	
TH20	MANATEE COUNTY, WATER MAIN	6"	PVC	3.02'	N-S	1171520.3	471862.2	
TH21	MANATEE COUNTY, WATER MAIN	6"	ACP	2.92'	N-S	1171766.8	471863.8	
TH22	MANATEE COUNTY, WATER MAIN	6"	ACP	2.82'	N-S	1171973.1	471866.8	
TH23	MANATEE COUNTY, WATER MAIN	6"	ACP	2.66'	N-S	1172225.3	471866.4	
TH24	MANATEE COUNTY, WATER MAIN	6"	PVC	2.50'	N-S	1172486.0	471867.3	
TH25	MANATEE COUNTY, WATER MAIN	6"	PVC	3.40'	N-S	1172714.8	471863.7	
TH26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO TEST HOLE PERFORMED
TH27	MANATEE COUNTY, WATER MAIN	6"	ACP	2.94'	E-W	1170289.5	472458.5	
TH28	MANATEE COUNTY, WATER MAIN	6"	PVC	3.30'	N-S	1170227.5	472849.7	
TH29	MANATEE COUNTY, WATER MAIN	6"	ACP	3.34'	N-S	1170405.1	472850.8	
TH30	MANATEE COUNTY, WATER MAIN	4"	ACP	2.38'	E-W	1171234.0	472816.2	
TH31	MANATEE COUNTY, WATER MAIN	6"	PVC	2.54'	E-W	1171513.6	472826.1	
TH32	MANATEE COUNTY, WATER MAIN	6"	ACP	2.70'	N-S	1172028.3	472857.7	
TH33	MANATEE COUNTY, WATER MAIN	6"	ACP	2.78'	N-S	1172483.6	472859.8	
TH34	MANATEE COUNTY, WATER MAIN	6"	ACP	3.18'	N-S	1172695.0	472860.6	
TH35	MANATEE COUNTY, WATER MAIN	6"	PVC	2.90'	N-S	1172991.9	472862.7	
TH36	MANATEE COUNTY, WATER MAIN	6"	ACP	3.00'	N-S	1173259.0	472864.0	
TH37	MANATEE COUNTY, WATER MAIN	6"	ACP	2.54'	N-S	1173752.3	472867.6	
TH38	MANATEE COUNTY, WATER MAIN	4"	ACP	3.01'	N-S	1174307.8	472853.4	
TH39	MANATEE COUNTY, WATER MAIN	4"	PVC	2.76'	E-W	1173268.2	472363.4	
TH40	MANATEE COUNTY, WATER MAIN	6"	PVC	3.00'	E-W	1171233.6	473166.0	
TH41	MANATEE COUNTY, WATER MAIN	6"	STL	2.81'	E-W	1171000.1	470823.7	6"x6" TEE AT 2.81' WEST OF TEST HOLE
TH41A	MANATEE COUNTY, WATER MAIN	6"	STL	2.88'	E-W	1170998.9	470822.8	FOUND 6"x6" TEE

SUBSURFACE UTILITY ENGINEERING NOTES:

1. THE PURPOSE OF THESE PLANS WAS TO LOCATE AND IDENTIFY EXISTING UNDERGROUND WATER MAIN LINES THAT MAYBE IN CONFLICT AND AT TIE-IN CONNECTION POINTS WITH PROPOSED WATER MAIN DESIGN. THIS IS NOT A SURVEY.
2. FIELD SURVEY DATA COLLECTION WAS COLLECTED BETWEEN JUNE 6, 2019 AND JULY 18, 2019.
3. HORIZONTAL DATUM IS "NORTH AMERICAN DATUM OF 1983, FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE (0902)". THE HORIZONTAL POSITIONS ARE ACCURATE TO SUB-METER.
4. ALL MEASUREMENTS ARE IN U.S. SURVEY FEET OR DECIMALS THEREOF UNLESS OTHERWISE STATED.
5. SUBSURFACE LOCATIONS AND DEPTH OF COVER WERE DETERMINED BY DIRECT READINGS ON VACUUM EXPOSED UTILITY LINES AND PASSIVE OR INDUCTIVE ELECTROMAGNETIC SCANNING EQUIPMENT. THESE ELECTRONICALLY DESIGNATED LINES MAY DEVIATE FROM THE ACTUAL UTILITY LOCATION AND SHOULD BE CONSIDERED APPROXIMATE.
6. UTILIZATION OF THE ABOVE EQUIPMENT AND METHODS IS THE INDUSTRY RECOGNIZED STANDARD FOR FINDING AND LOCATING UNDERGROUND UTILITIES. ALTHOUGH EFFECTIVE AND RELIABLE, THERE IS A POSSIBILITY THAT ALL UTILITIES MAY NOT BE DETECTED DUE TO ENVIRONMENTAL CONDITIONS, SOIL CONDITIONS, WATER TABLE, EXCESSIVE DEPTH, AND/OR FEATURE MAKEUP.
7. SURFACE ELEVATIONS AND MEASURE DOWNS (DEPTH OF COVER) ARE VALID AT THE DATE OF THE SURVEY ONLY AS SURFACE GRADE CONDITIONS MAY CHANGE OVER TIME.
8. UTILITY SIZE REFLECTS THE APPROXIMATE OUTSIDE DIAMETER UNLESS OTHERWISE SPECIFIED. UTILITY SIZE AND MATERIAL COMPOSITION WERE COLLECTED BY FIELD OBSERVATION UNDER ADVERSE CONDITIONS AND SHOULD BE CONSIDERED APPROXIMATE.
9. UTILITY OWNER'S NAMES REFLECT INFORMATION OBTAINED FROM FIELD OBSERVATIONS, FIELD MEETINGS, AND UTILITY RESEARCH AND MAY NOT REFLECT ACTUAL OWNERSHIP.
10. MEASUREMENTS DESCRIBED AS "ELECTRONIC DEPTH OF COVER", IF ANY HAVE BEEN OBTAINED BY ELECTRONIC DESIGNATING EQUIPMENT.
11. THE 3-DIMENSIONAL POSITION OF ELECTRONICALLY DESIGNATED UTILITIES HAS NOT BEEN PHYSICALLY MEASURED AND SHOULD BE CONSIDERED APPROXIMATE.
12. THE SURROUNDING UTILITIES SHOWN AS ELECTRONIC DESIGNATION AND OTHER SUE TEST HOLES MUST BE CAREFULLY CONSIDERED PRIOR TO THE DESIGN AND/OR PLACEMENT OF PROPOSED STRUCTURES.

AA-Standard.dwg
 1/16/2019 10:00 AM - Manatee County - Palmetto Point Water Main Replacement 66-0172.00 SUE & UIR Design.dwg, Layout: SUE 2

DES BY	CKM	PROJ NO	66-0172.00
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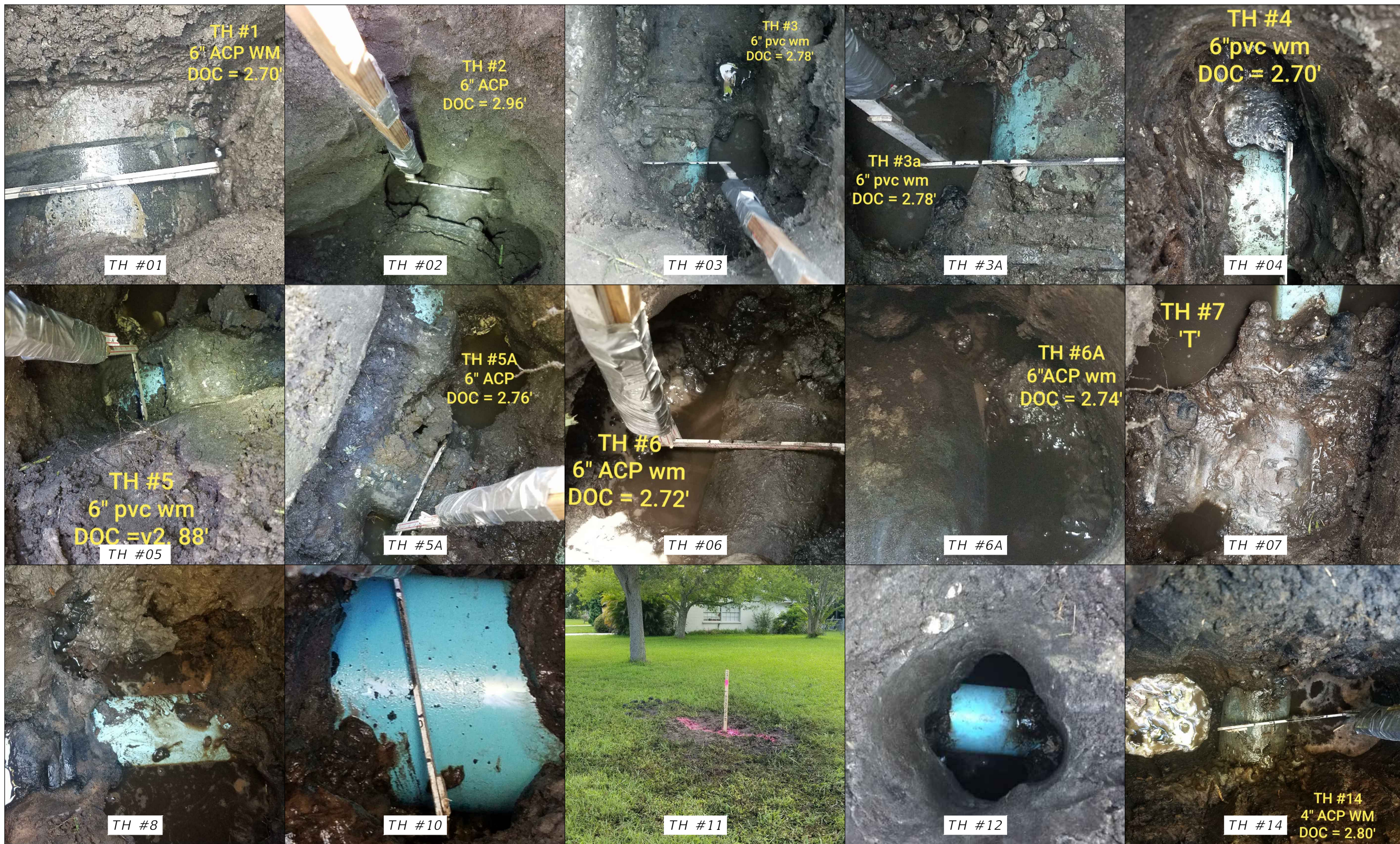
PALMETTO POINT WATER MAIN REPLACEMENT
PALMETTO, FLORIDA
MANATEE COUNTY PUBLIC WORKS



SUMMARY OF VERIFIED UTILITIES & NOTES

SHEET NO.
SUE-02

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



AA-Standard.dwg
 1/16/2020 10:00 - Manatee County - Palmetto Point Water Main Replacement 66-0172.00 SUE & LUE Designations.dwg, Layout: SUE 3

DES BY	CKM				
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CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

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PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS



SUE PHOTOS

SHEET NO.
SUE-03

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AA-Standard.dwg
 1/16/2017 10:00 - Manatee County - Palmetto Point Water Main Replacement 66-0172.00 SUE & LUE Designation.dwg, Layout: SUE-4

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

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 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

PALMETTO POINT WATER MAIN REPLACEMENT
 PALMETTO, FLORIDA
 MANATEE COUNTY PUBLIC WORKS



SUE PHOTOS

SHEET NO.
 SUE-04

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



TH #37



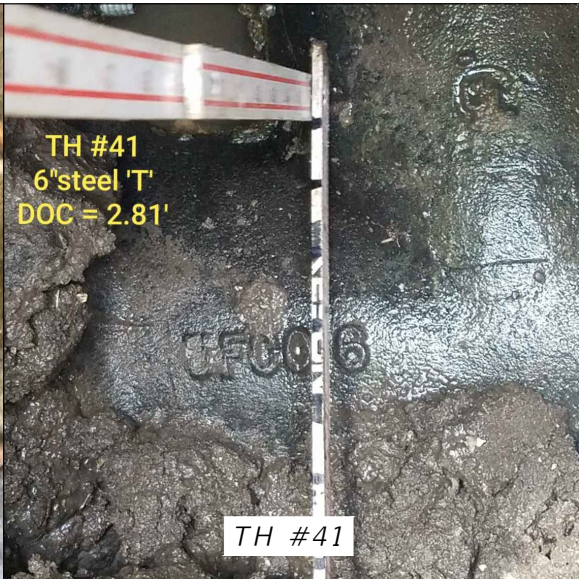
TH #38



TH #39



TH #40



TH #41
6" steel 'T'
DOC = 2.81'

TH #41



TH #41a
6" steel Wm 'T'
DOC = 2.81'

TH #41A

AA-Standard.dwg
 6/6/0172.00 - Manatee County - Palmetto Point Water Main Drawings (66-0172.00 SUE & LIR Designations.dwg, Layout: SUE 5

DES BY	CKM				
DR BY	AD	PROJ NO	66-0172.00		
CHK BY	CKM	DATE	NOV 2019	NO	DATE
				REVISION	

PROFESSIONAL OF RECORD:
 CHRISTOPHER K. MARTIN, P.E. #66598
 AYRES ASSOCIATES
 8875 HIDDEN RIVER PKWY, SUITE 200
 TAMPA, FL 33637 (813) 978-8688 CERT. OF AUTH. #4356

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SUE PHOTOS

SHEET NO.
 SUE-05

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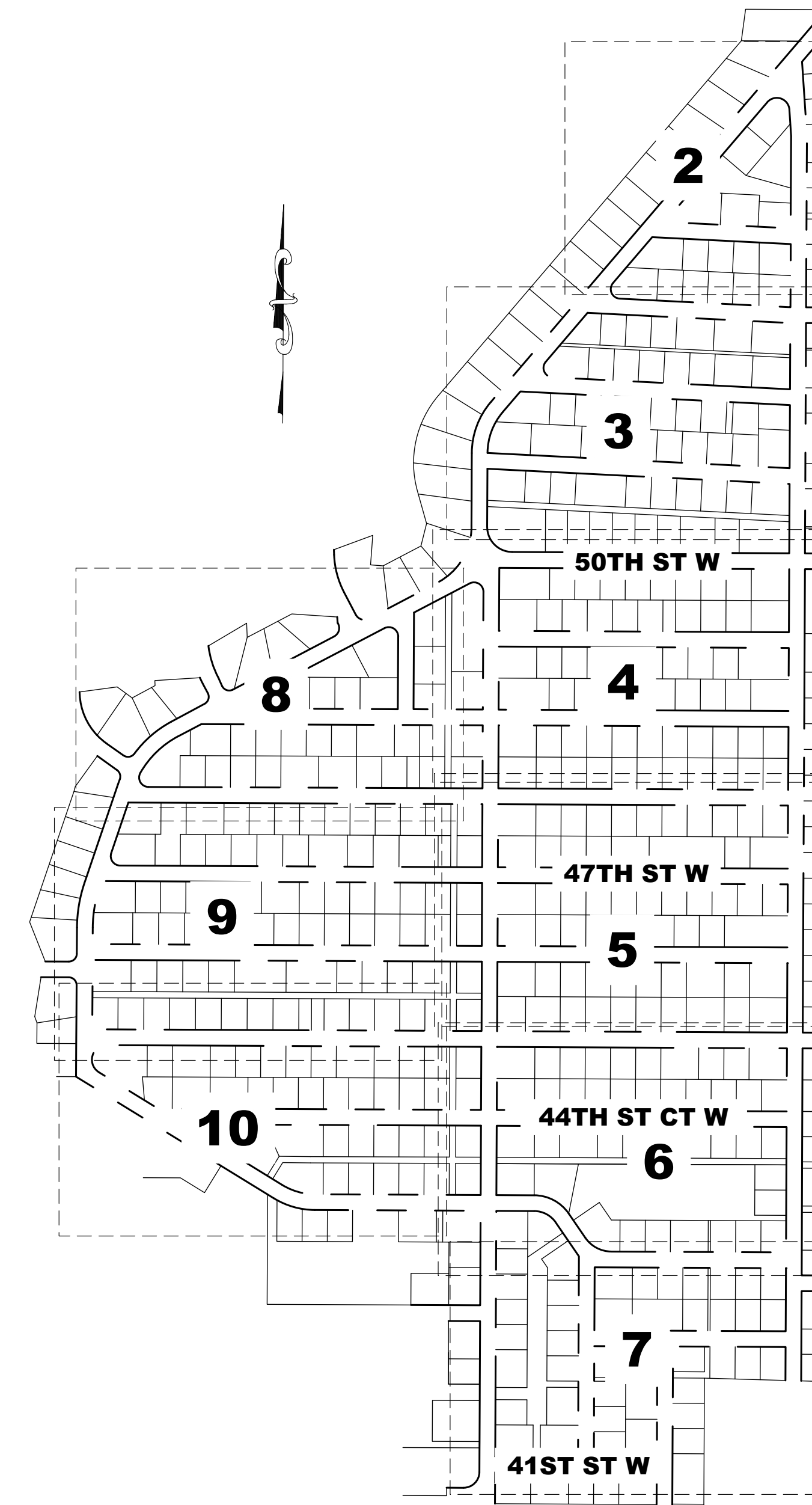
GENERAL NOTES

- THE FOLLOWING NGS VERTICAL CONTROL MONUMENTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN:
 DESIGNATION "PALM SHORES", NAVD 88 ELEV.=5.43'
 DESIGNATION "PORT ST JOHN", NAVD 88 ELEV.=3.91'
- THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT).
- PARCEL IDENTIFICATION NUMBERS SHOWN ARE FROM THE MANATEE COUNTY MOBILE GEOGRAPHIC INFORMATION SERVER ON SEPTEMBER 4, 2018.
- THIS IS NOT A BOUNDARY SURVEY. TITLE WORK WAS NOT PROVIDED.
- THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.
- RIGHT-OF-WAY LINES INDICATED HEREIN ARE BASED ON AVAILABLE PUBLIC RECORD INFORMATION TOGETHER WITH FOUND BOUNDARY MONUMENTATION.
- THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.
- THIS SURVEY IS CERTIFIED TO AYRES ASSOCIATES AND THE MANATEE COUNTY GOVERNMENT.

LEGEND

●	SITE CONTROL POINT	BOS	BOTTOM OF STRUCTURE
○	IRON PIPE FOUND	CO	COUNTY
●	IRON ROD FOUND	CP	CONTROL POINT
■	CONCRETE MONUMENT FOUND	CPP	CORRUGATED PLASTIC PIPE
⊙	SUBSURFACE INVESTIGATION	DIP	DUCTILE IRON PIPE
⊖	SIGN	DL	DRIP LINE (RADIUS)
∅	WOOD UTILITY POLE	EL	ELEVATION
∅	CONCRETE UTILITY POLE	ELEV	ELEVATION
⤴	GUY WIRE	EM	ELECTRIC METER
□	WATER METER	GIS	GEOGRAPHIC INFORMATION SYSTEM
⋈	WATER VALVE	INC	INCORPORATED
⋈	RECLAIM VALVE	INV	INVERT
⊙	SANITARY MANHOLE	IRS	IRON ROD SET
⊙	STORM MANHOLE	LB	LICENSED BUSINESS
▣	GRATE INLET	NAVD	NORTH AMERICAN VERTICAL DATUM
⊙	FIRE HYDRANT	NDS	NAIL & DISK SET
⊖	BACKFLOW PREVENTER	NGS	NATIONAL GEODETIC SURVEY
⊖	UTILITY RISER	NO	NUMBER
▣	UTILITY VAULT	PID	PARCEL IDENTIFICATION NUMBER (FROM MANATEE CO. GIS DATED 9/4/2018)
Ⓜ	MAILBOX	PSM	PROFESSIONAL SURVEYOR & MAPPER
⊙	WOOD POST	PVC	POLYVINYL CHLORIDE
⊖	CLEANOUT	R/W	RIGHT-OF-WAY
⊙	GAS MARKER	RCP	REINFORCED CONCRETE PIPE
⊙	ANTENNA	RNG	RANGE
Ⓜ	CONTROL PANEL	SIRC	SET IRON ROD & CAP
Ⓜ	CABLE SERVICE BOX	TWN	TOWNSHIP
Ⓜ	TELEPHONE SERVICE BOX	#	NUMBER
☀	STREET LIGHT	---	DRIP LINE
🌴	PALM	--- <td>FENCE LINE</td>	FENCE LINE
🌳	OAK	---	RIGHT OF WAY
🌳	TREE	---oE---	OVERHEAD ELECTRIC
🌳	BUSH	---OHU---	OVERHEAD UTILITIES
		---	HEDGE/VEGETATION LINE
		--- 1' ---	1-FOOT CONTOURS

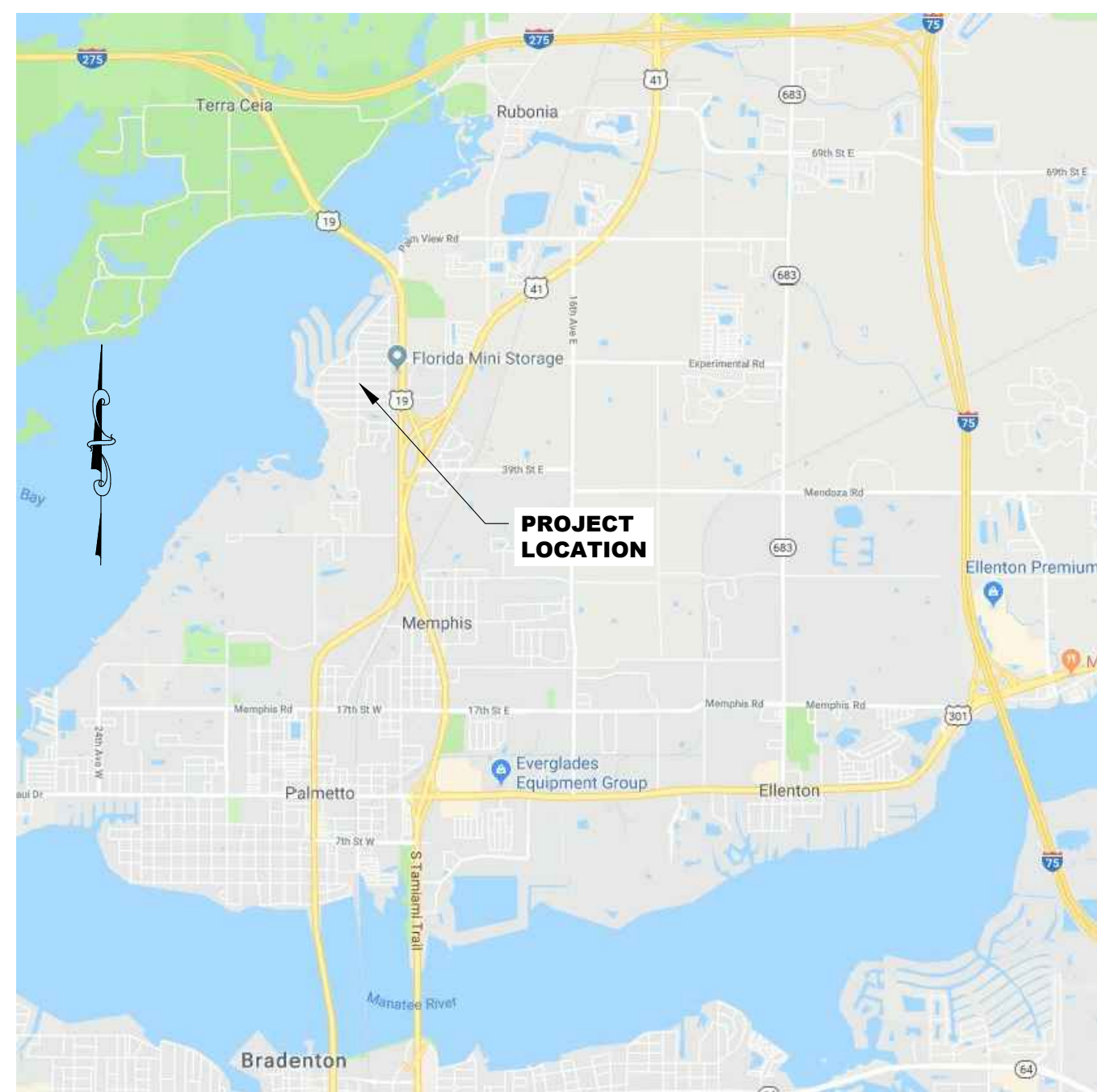
SHEET INDEX (NOT TO SCALE)



Point #	Northing	Easting	Elevation	Description
1	1172721.02	473150.84	8.81	CP IRS
2	1172759.14	472878.24	6.17	CP SIRC
3	1173033.44	472836.74	5.75	CP SIRC
4	1173265.83	472864.51	4.59	CP SIRC
5	1173534.48	472836.28	3.30	CP SIRC
6	1173748.88	472865.32	2.29	CP SIRC
7	1174281.37	472824.76	2.39	CP SIRC
8	1174023.56	472550.63	1.77	CP IRS
9	1173808.60	472405.04	2.46	CP NDS
10	1173544.88	472182.96	2.98	CP NDS
11	1173294.10	471969.49	3.25	CP NDS
12	1173273.59	472355.50	3.96	CP IRS
13	1173044.00	472383.75	5.52	CP IRS
14	1173052.47	471824.89	3.24	CP IRS
15	1172727.13	471865.09	3.69	CP NDS
16	1172725.52	472368.81	4.88	CP IRS
17	1172500.95	472834.64	7.04	CP NDS
18	1172480.08	472338.83	5.55	CP IRS
19	1172495.42	471871.44	4.47	CP NDS
21	1172230.68	472353.48	6.75	CP IRS
22	1172252.88	472834.72	8.83	CP NDS
23	1172007.24	472829.29	10.23	CP NDS
24	1171980.99	472341.93	8.20	CP IRS
25	1172007.41	471865.10	4.29	CP NDS
26	1171732.95	471886.68	5.20	CP NDS
27	1171755.42	472371.44	8.33	CP IRS
28	1171745.33	472857.86	11.61	CP IRS
29	1171488.38	472857.12	11.78	CP IRS
30	1171481.29	472338.78	8.90	CP IRS
31	1171507.41	471861.11	5.87	CP NDS
32	1171236.48	471885.86	7.31	CP NDS
33	1171211.94	472315.63	9.58	CP IRS
34	1171208.26	472829.68	11.66	CP NDS
35	1170958.74	472828.64	9.78	CP NDS
36	1170983.55	472336.23	8.98	CP IRS

Point #	Northing	Easting	Elevation	Description
37	1170963.54	471858.06	8.15	CP NDS
38	1170691.22	471884.26	7.78	CP NDS
41	1170537.49	472820.64	11.12	CP NDS
49	1170714.00	471568.44	6.27	CP NDS
50	1170708.91	471255.53	5.01	CP IRS
51	1170975.30	470803.93	3.61	CP IRS
52	1171108.19	470585.57	2.84	CP IRS
53	1171243.27	470600.97	3.11	CP NDS
54	1171495.65	470573.66	3.28	CP IRS
55	1171741.56	470641.15	2.97	CP NDS
56	1172000.49	470688.25	3.23	CP IRS
57	1172257.38	470942.92	3.02	CP NDS
58	1172427.09	471263.18	3.24	CP NDS
59	1172556.74	471593.18	3.79	CP IRS
60	1172257.42	471594.72	4.76	CP NLD
61	1171986.21	471306.53	4.72	CP IRC
62	1171758.29	471266.86	3.64	CP IRS
63	1171485.62	471264.31	4.71	CP IRC
64	1171239.12	471288.59	5.07	CP IRC
65	1170989.77	471373.39	7.06	CP IRC

VICINITY MAP (NOT TO SCALE)



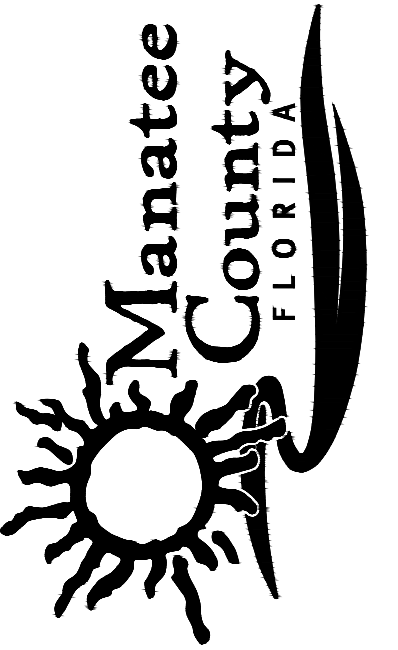
NO. INDEX OF SHEETS

- 1 COVER SHEET
- 2-10 PLAN SHEETS

Hyatt Survey Services, Inc.
 LB No.: 7203 Geographic Data Specialists
 11007 8th Avenue East Bradenton, Florida 34212
 Phone: (941) 748-4693 Fax: (941) 744-1643

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

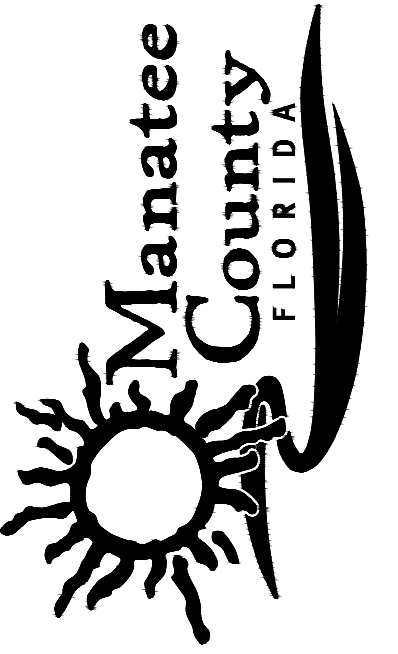
SHANE ALAN CHRISTY, PSM
 FLORIDA SURVEYORS REGISTRATION NO. 7100



TOPOGRAPHIC SURVEY
 PALMETTO POINT WATER MAIN REPLACEMENT
 MANATEE COUNTY, FLORIDA

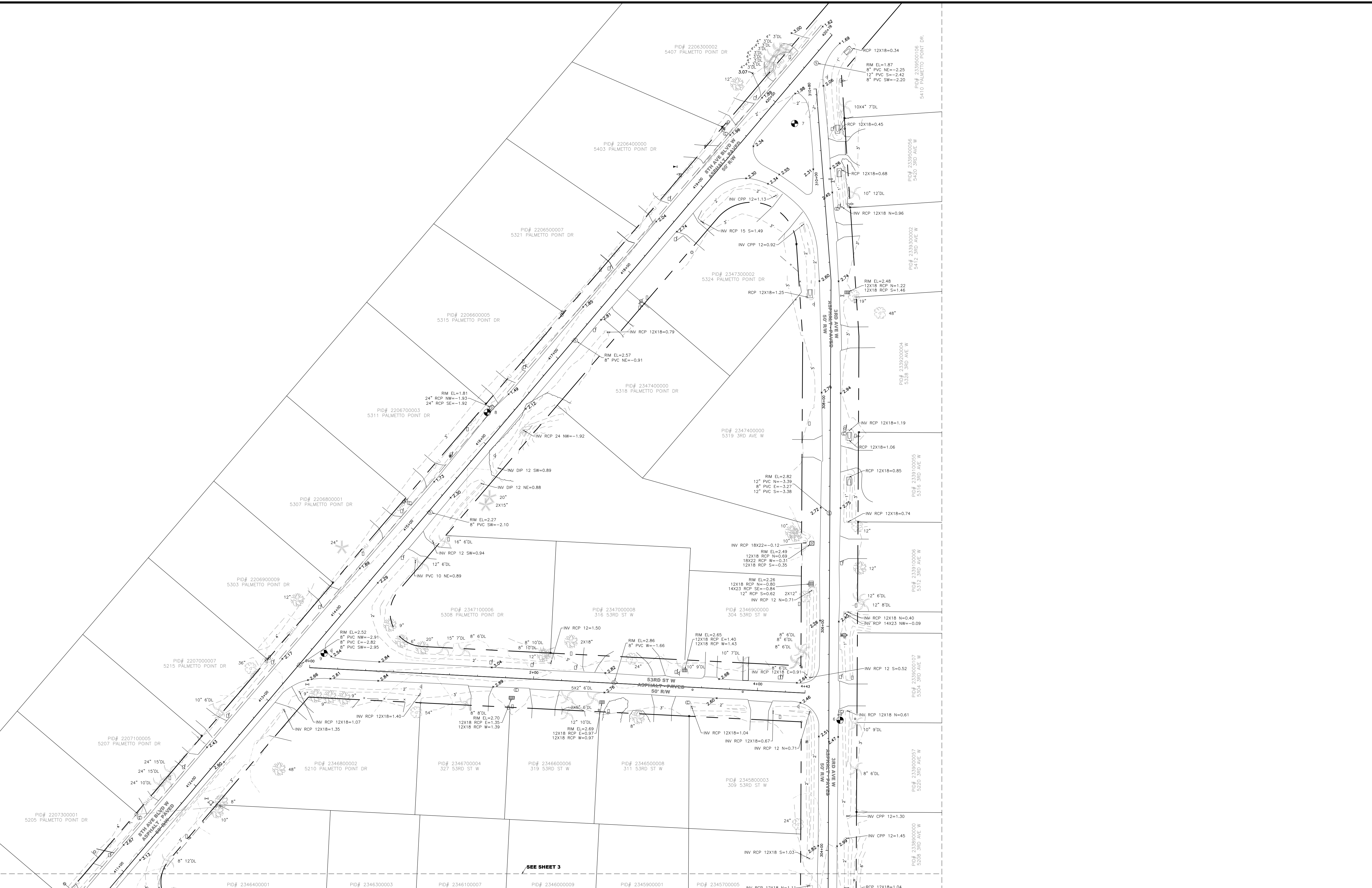
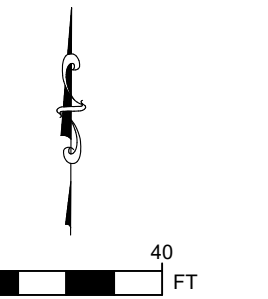
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SURVEY #	18-2245
SECTION TWN RNG	15-35-17

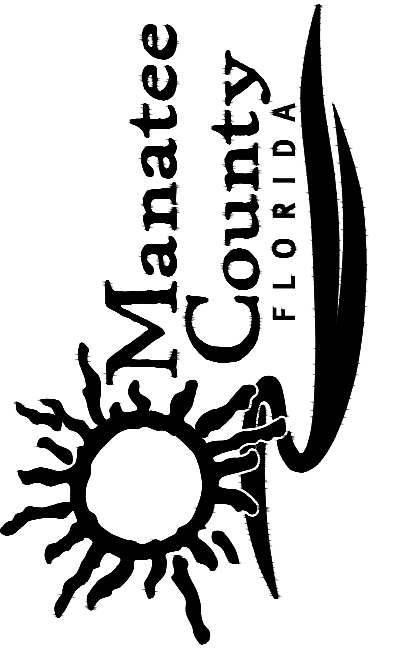
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SURVEYED	HYATT 8/2018
DESIGNED	
DRAWN	SC 8/2018
CHECKED	RH 8/2018



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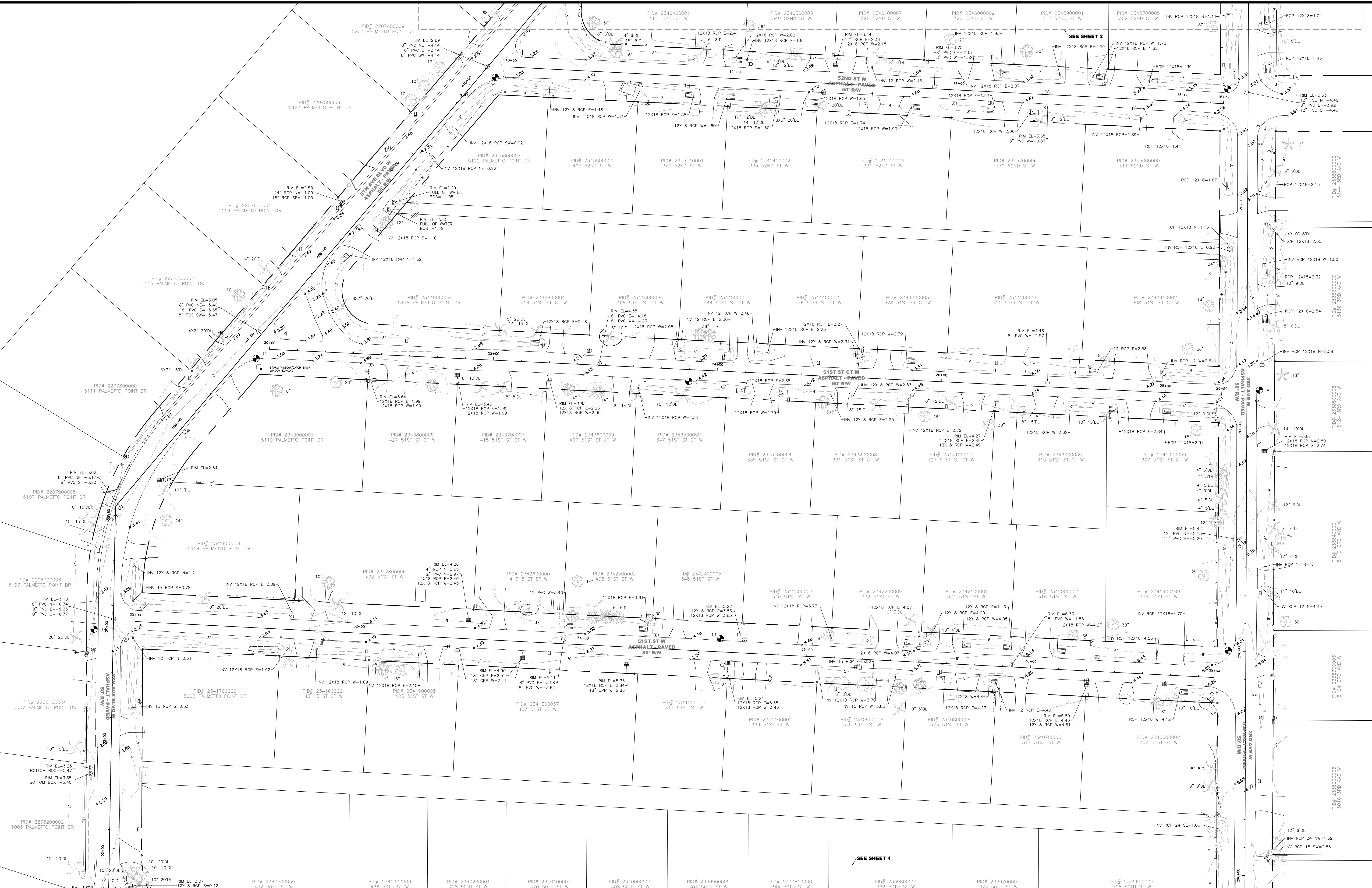
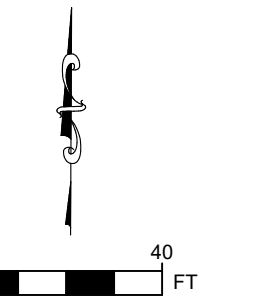
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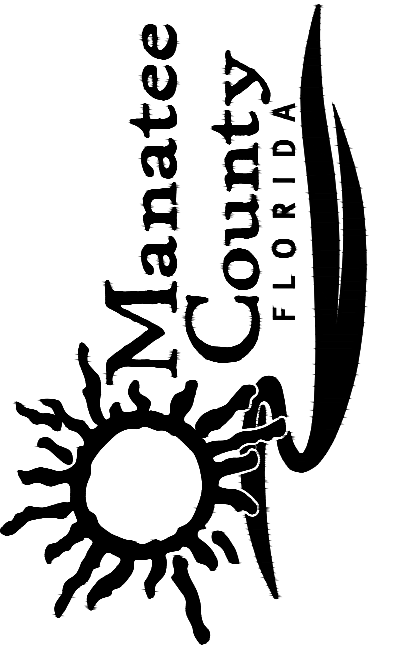




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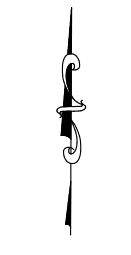
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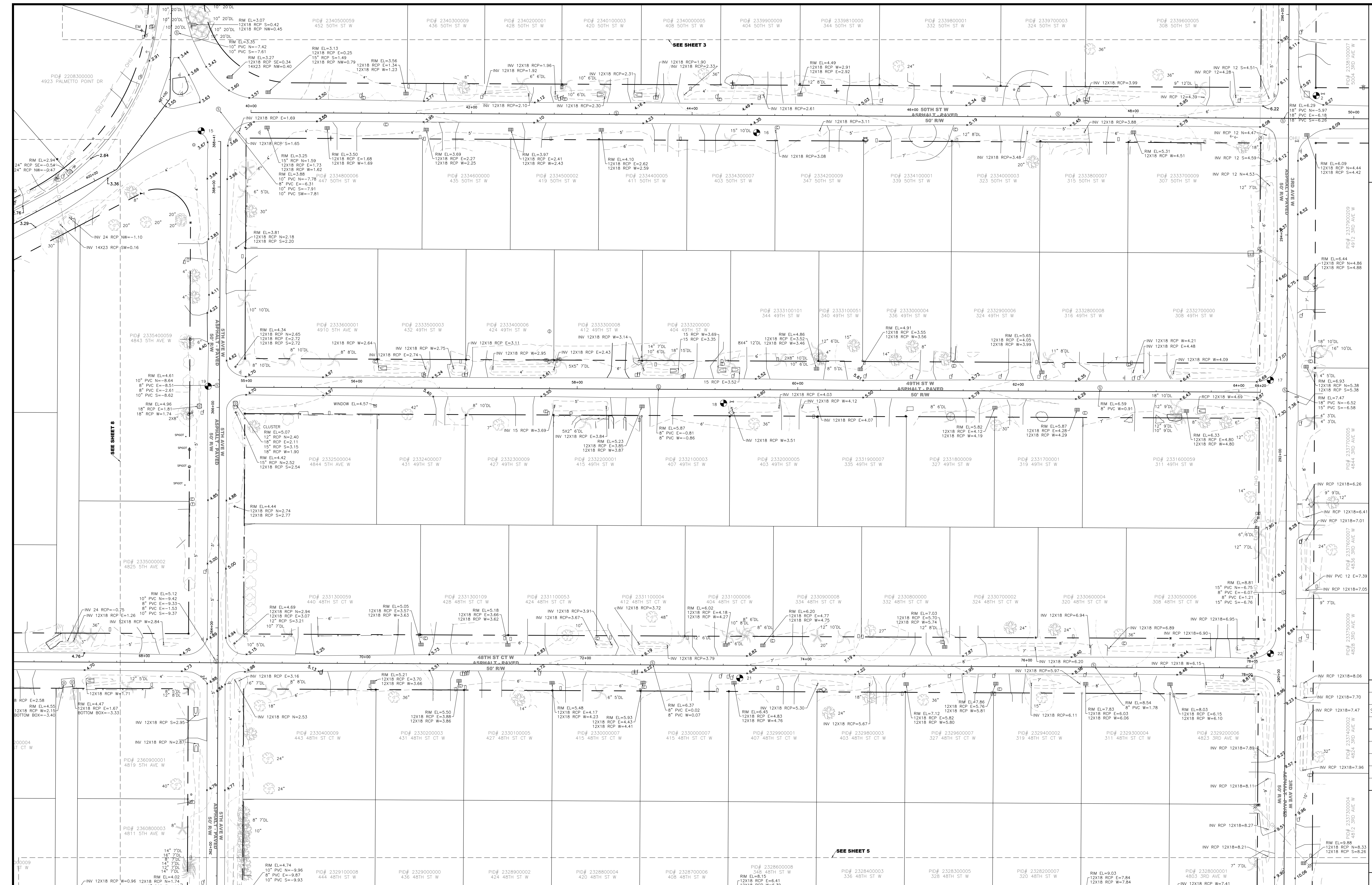


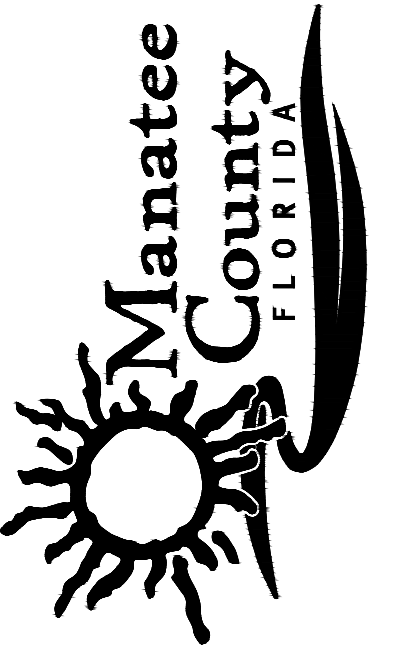
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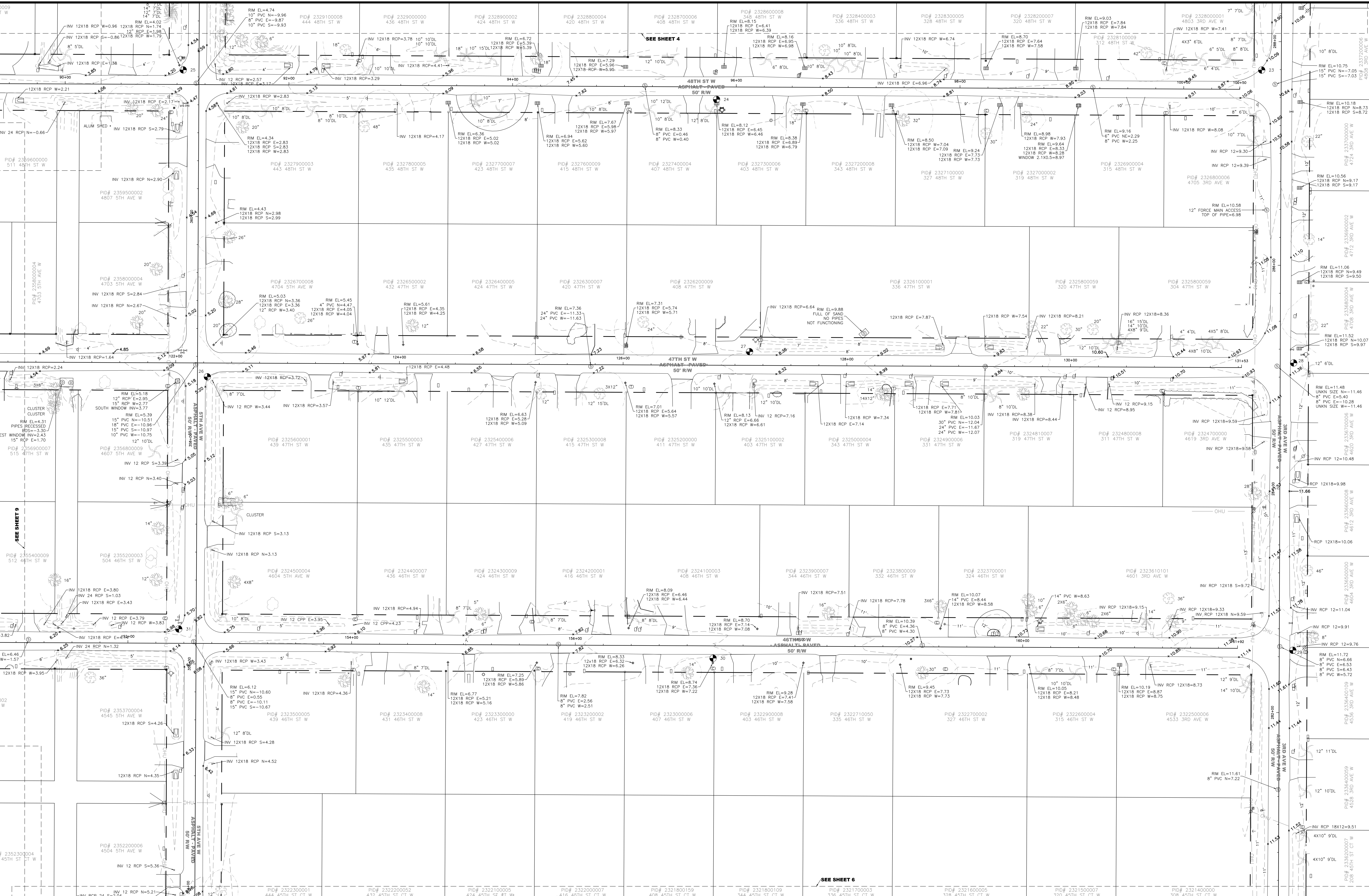
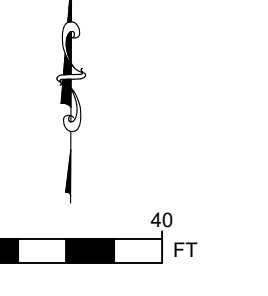
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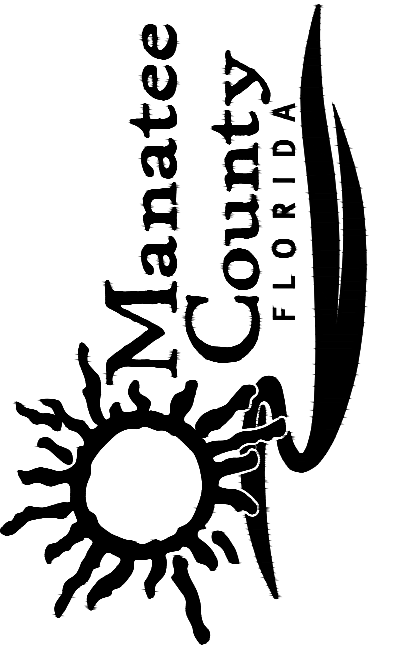




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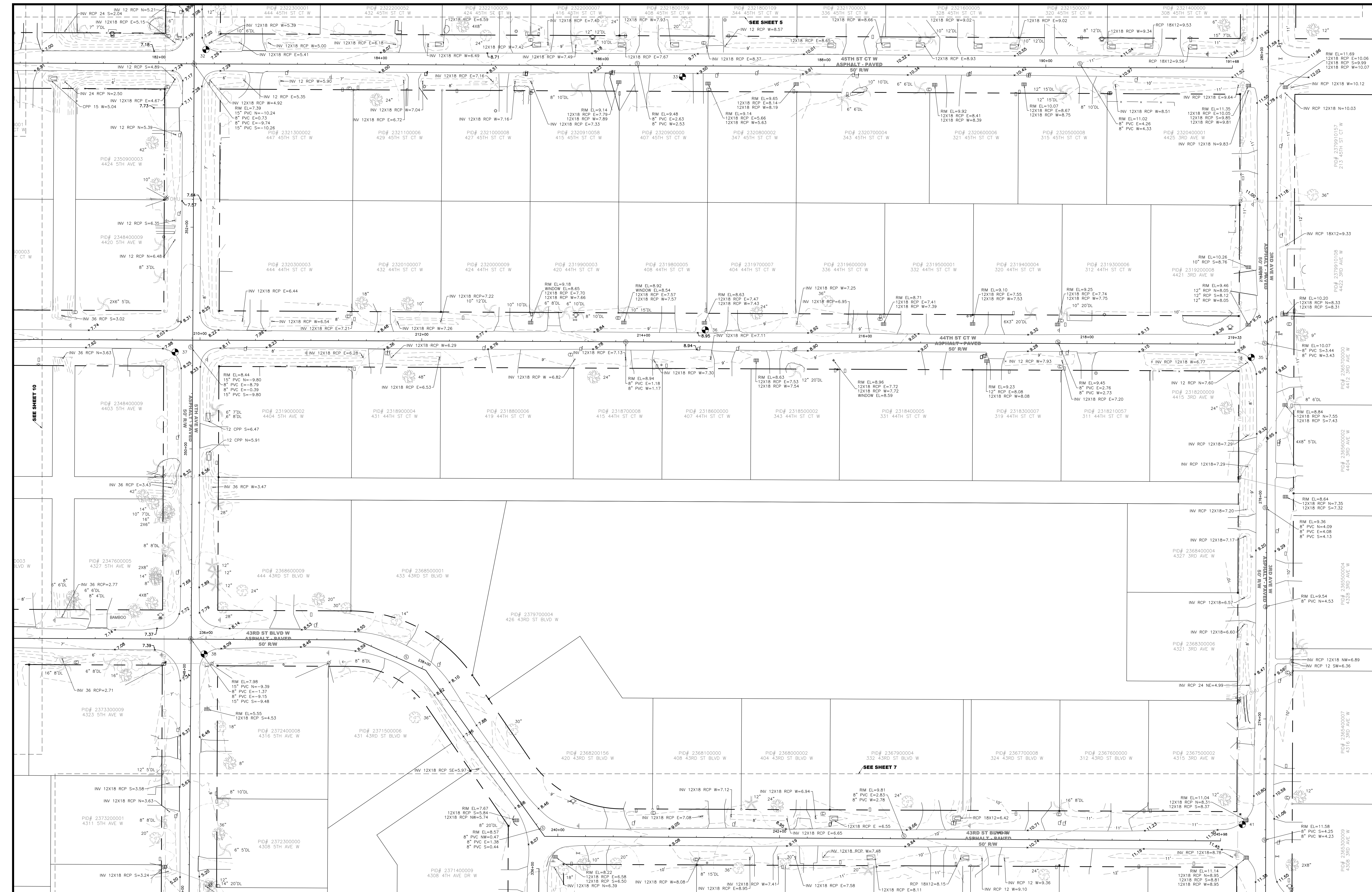
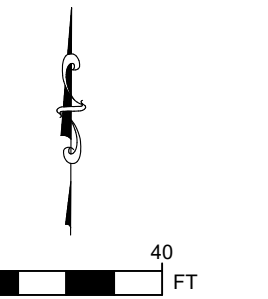
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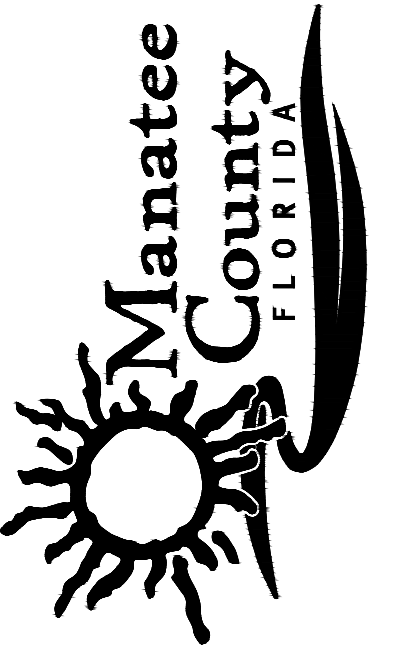




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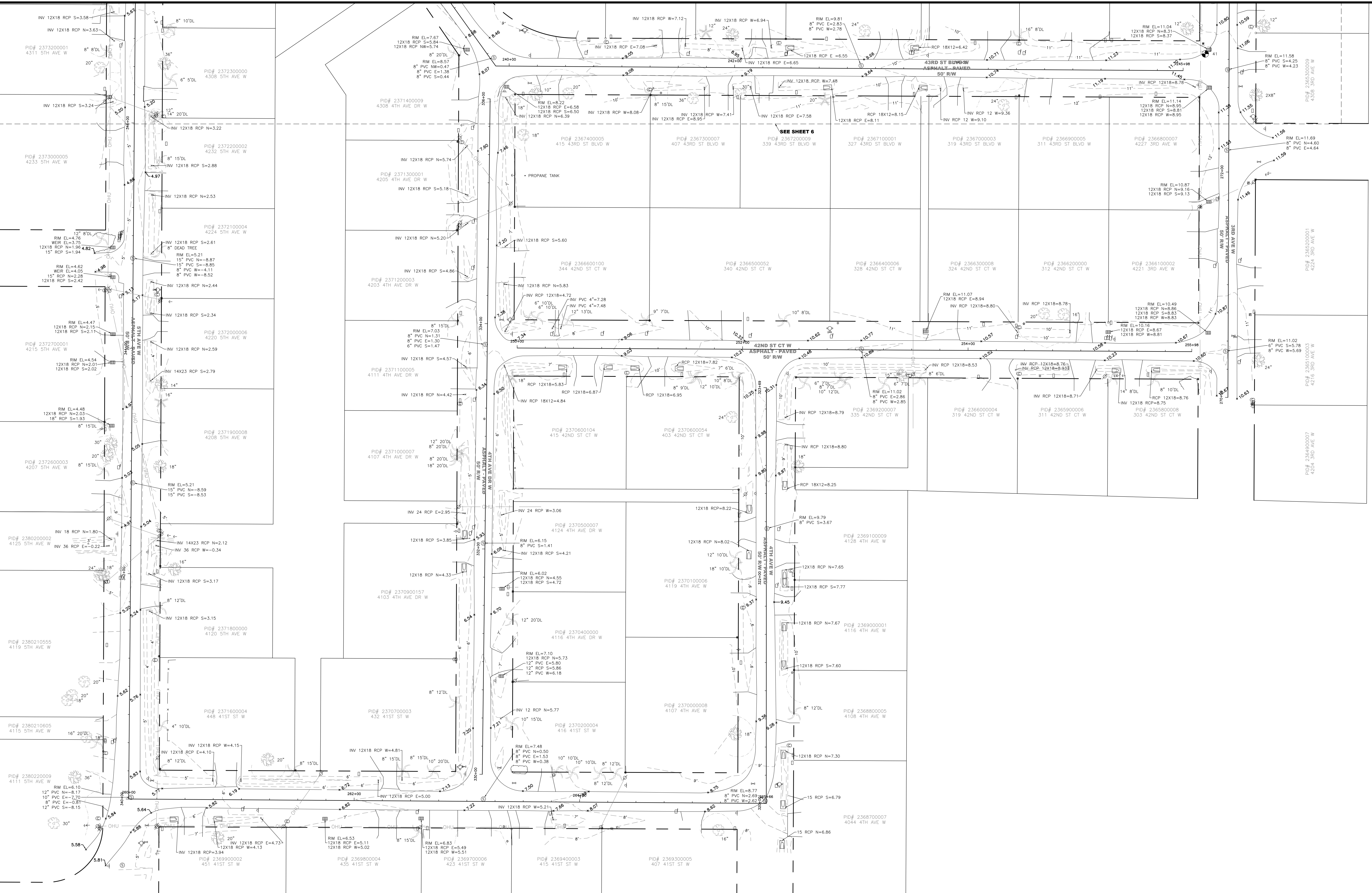
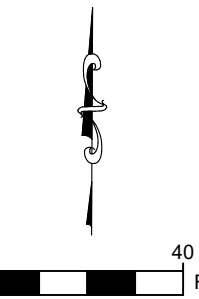
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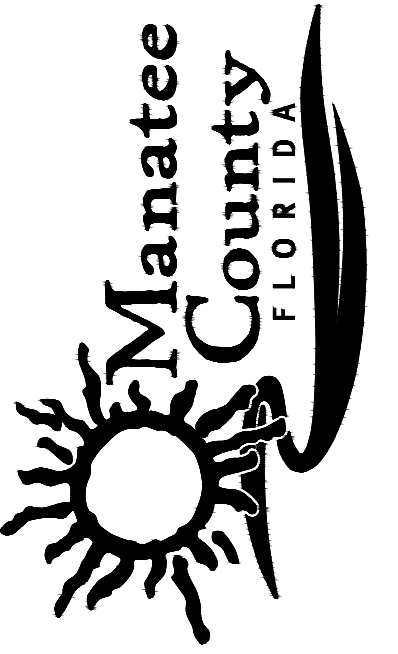




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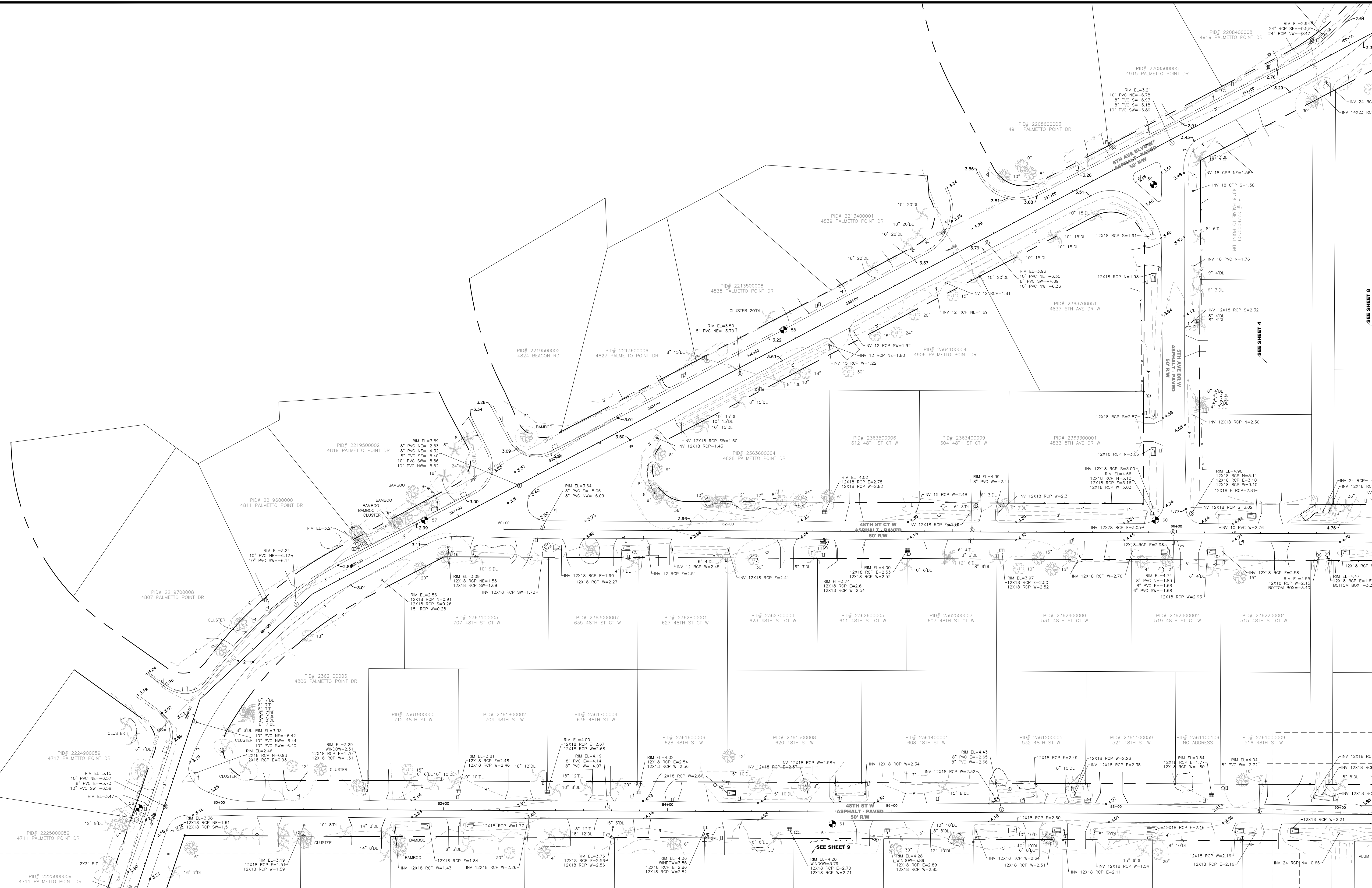


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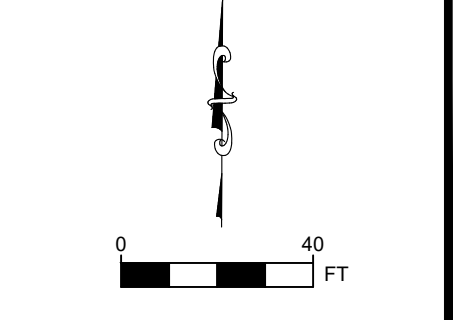
SEE SHEET 8

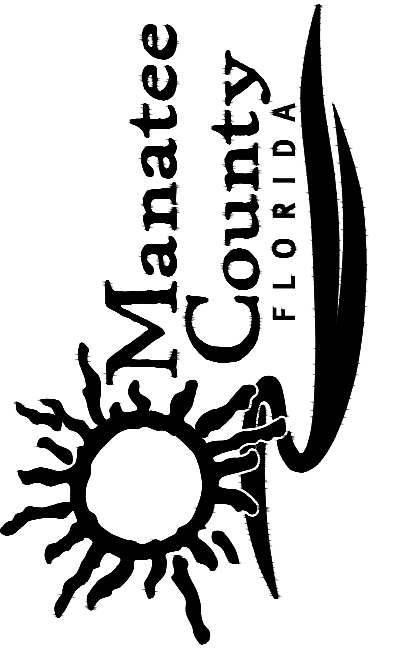
SEE SHEET 4

SEE SHEET 9



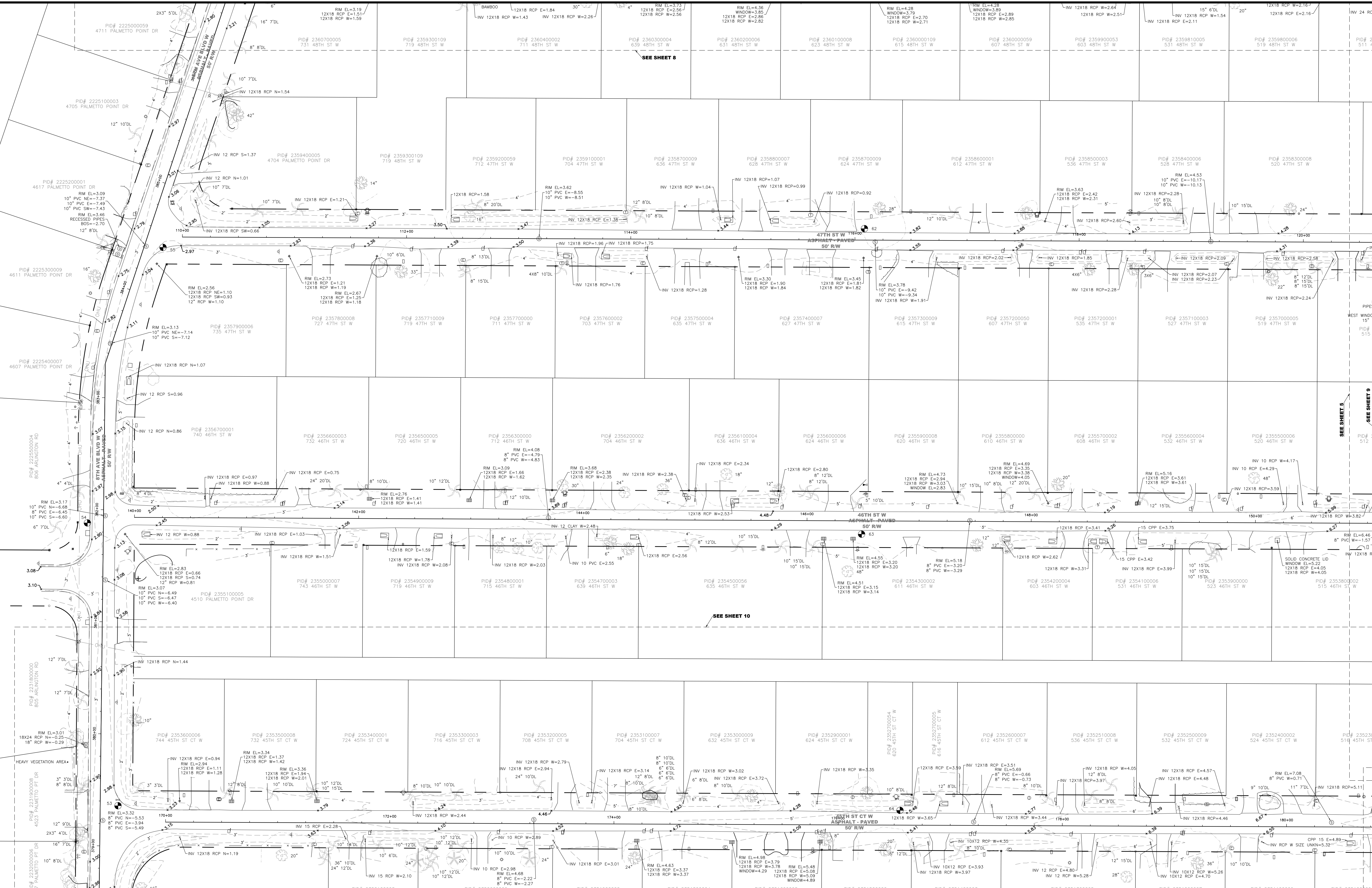
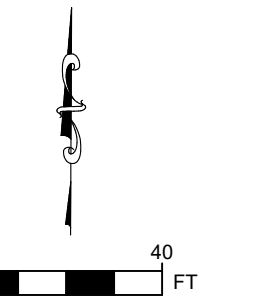
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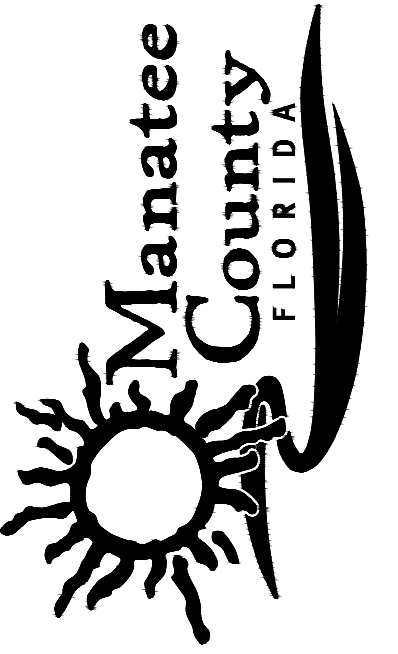




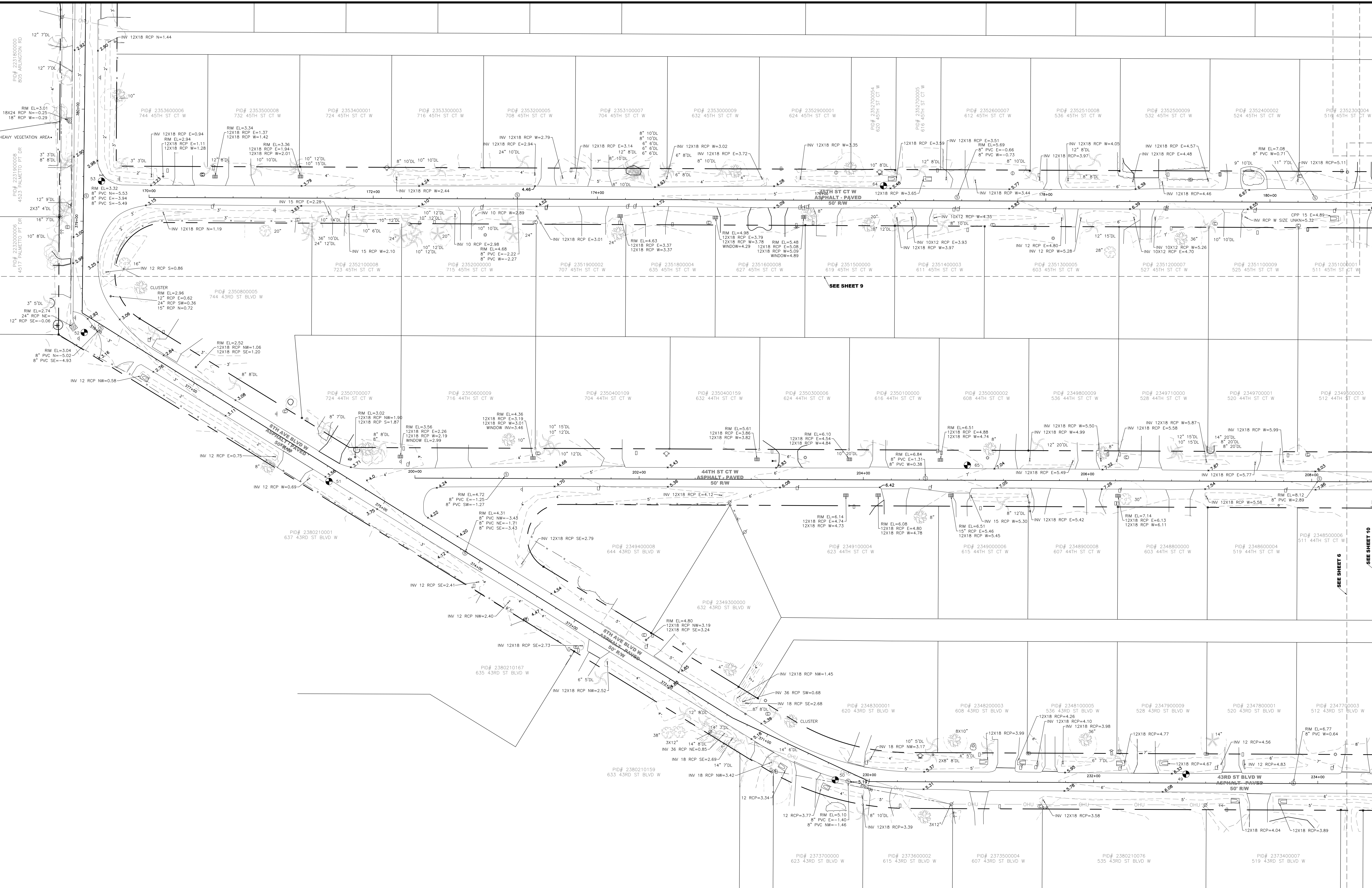
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