

City of Tampa Florida

Water Department

PLANS FOR: **PALMA CEIA PHASE III**

TAMPA WATER DEPARTMENT
WORK ORDER NO. :
WTR-18-0005

INDEX

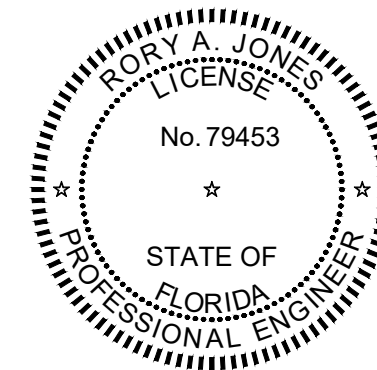
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CITY COUNTY STATE DEP

CONTRACTOR:

PALMA CEIA PHASE III

COVER SHEET

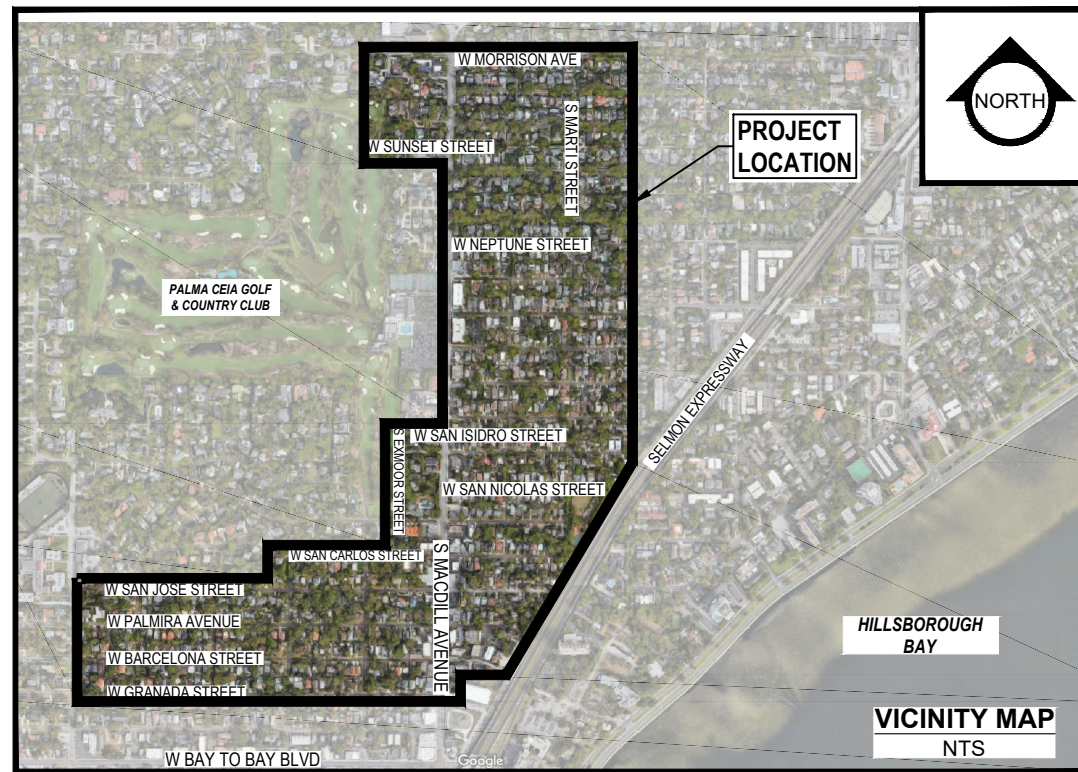
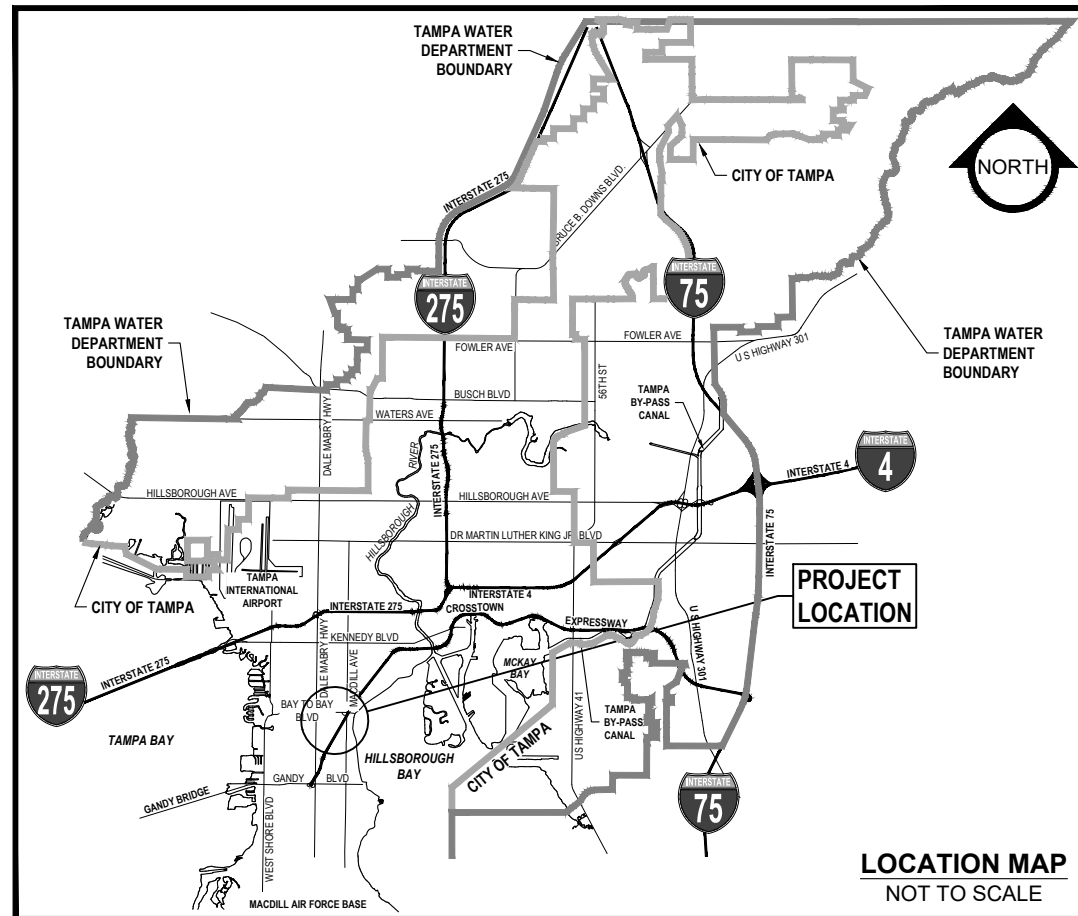


100% PLANS

WORK ORDER NO. WTR-18-0005

RECORD DRAWING NO.

ATLAS PAGE J-10/K10 SHEET 1 OF 90



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RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

REV NO.	DATE	DESCRIPTION	BY	DESIGNED	CL
1	01/19/2021	PERMIT REVISIONS	SV		
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DRAWN	SV
CHECKED	RAJ
DATE	06/04/2019

CITY OF TAMPA NOTES

GENERAL

- ALL WATER WORK FOR THE CITY OF TAMPA (CITY) SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT'S TECHNICAL SPECIFICATIONS, CONSTRUCTION DETAILS, AND THE TAMPA WATER DEPARTMENT TECHNICAL MANUAL (LATEST EDITION). IN THE EVENT OF A DISCREPANCY, THE MOST STRINGENT CRITERIA SHALL APPLY.
- THE CONTRACTOR SHALL NOT TAP ANY WATER MAIN WITHOUT A CITY INSPECTOR PRESENT. THE CONTRACTOR SHALL PROVIDE NOTICE TO THE CITY INSPECTOR AT A MINIMUM OF 5 WORKING DAYS PRIOR TO NECESSARY WORK AND COORDINATE PERFORMANCE OF TAP WITH THE CITY INSPECTOR.
- NORMAL WORKING HOURS SHALL BE WEEKDAYS FROM 7:30 AM TO 4:00 PM UNLESS OTHERWISE APPROVED BY THE ENGINEER/INSPECTOR.
- ELEVATION INFORMATION SHOWN ON THESE PLANS IS REFERENCED TO N.A.V.D. 1988 UNLESS OTHERWISE STATED.
- CONSTRUCTION OF WATER FACILITIES SHALL BE COORDINATED WITH THE WATER DEPARTMENT PRIOR TO THE START OF THE CONSTRUCTION. CONTRACTOR TO CONTACT CITY OF TAMPA CONTRACT ADMINISTRATION DEPARTMENT @ 813-635-3400 TO COORDINATE/SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY FOR REVIEW OF INSTALLATION TECHNIQUES AND PROCEDURES A MINIMUM OF 10 WORKING DAYS PRIOR TO THE PLANNED CONSTRUCTION.
- EXISTING UTILITIES, BUILDINGS, GROUND ELEVATIONS, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. ALL CONDITIONS, DIMENSIONS, AND QUANTITIES AFFECTING REQUIRED WORK SHALL BE VERIFIED BY CONTRACTOR BEFORE BEGINNING WORK OR ORDERING MATERIALS.
- VALVES ON EXISTING PUBLIC WATER MAINS TO BE OPERATED BY CITY PERSONNEL ONLY.
- ALL PROPOSED WATER LINES SHALL BE MANUFACTURED AND INSTALLED PER THE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA) AS PRESCRIBED BY FAC-62-555.320.
- SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE CITY FOR ALL PROPOSED ITEMS. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE HIGH QUALITY PDF DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR RESTRAINING ALL EXISTING PIPE NECESSARY TO MAINTAIN A SAFE CONSTRUCTION AREA AND PERFORM THE WORK SHOWN IN THE PLANS. EXISTING PIPE REQUIRING RESTRAINTS SHALL UTILIZE EXTERIOR BELL RESTRAINTS.
- THE CONTRACTOR SHALL DEWATER ANY EXCAVATION OR TRENCH TO MAINTAIN A SAFE WORK ENVIRONMENT AND TO ABIDE BY AWWA INSTALLATION STANDARDS. DEWATERING IS AT THE EXPENSE OF THE CONTRACTOR.
- REMOVAL AND RELOCATION OF ALL STREET OR TRAFFIC SIGNS SHALL BE APPROVED THROUGH THE TRAFFIC ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS, CITY OF TAMPA, AND HILLSBOROUGH COUNTY, CITY OF TEMPLE TERRACE, FLORIDA DEPARTMENT OF TRANSPORTATION OR OTHER APPLICABLE PERMITTING AGENCY.
- CONTRACTOR SHALL REFER TO THE CITY OF TAMPA DEVELOPMENT AND GROWTH MANAGEMENT @ 813-274-3100 FOR ALL WORK ASSOCIATED WITH TREES INCLUDING (BUT NOT LIMITED TO) TREE PROTECTION, ROOT PRUNING, AND TREE REMOVAL.

PERMITS

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS AND ROADWAY CLOSURES ASSOCIATED WITH THE WORK SHOWN IN THE PLANS.
- IN ORDER TO OBTAIN ROADWAY CLOSURES OR RIGHT-OF-WAY PERMITS, AT MINIMUM, THE CONTRACTOR MUST SUBMIT DETAILED MAINTENANCE OF TRAFFIC (MOT) PLANS ALONG WITH APPLICATIONS TO THE APPROPRIATE AGENCY. THE MOT(S) SHALL CONFORM TO APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DRAWINGS (MOST CURRENT EDITION). THE GOVERNING AGENCIES MAY REQUIRE ADDITIONAL INFORMATION AND DICTATE SPECIFIC WORK TIME DURING NON-PEAK TRAFFIC HOURS.

PIPE CLEARANCES

- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES AND SHALL MAINTAIN A MINIMUM OF THREE (3) FEET HORIZONTAL SEPARATION FROM OTHER UTILITIES, EXCEPT STORM, SANITARY, AND GAS, WHICH SHALL MAINTAIN TEN (10) FEET HORIZONTAL SEPARATION, UNLESS OTHERWISE NOTED.
- WATER MAIN SHALL CROSS ABOVE OTHER PIPES. WHEN WATER MUST BE BELOW, PROVIDE 12" MINIMUM VERTICAL SEPARATION UNLESS OTHERWISE NOTED.
- CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED PIPE CROSSINGS.

MATERIAL

- ALL VALVES SHALL BE RIGHT HAND OPEN.
- POLYWRAP ALL DUCTILE IRON PIPE (D.I.P) FITTINGS AND APPURTENANCES.
- ALL HARDWARE SHALL BE 304 STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- ALL BELOW GROUND BENDS SHALL BE MECHANICAL JOINT (M.J).
- RESTRAIN ALL JOINTS AND FITTINGS.
- CONCRETE THRUST BLOCKS SHALL NOT BE USED TO PROVIDE THRUST RESTRAINT. RESTRAINT OF PUSH-ON DIP (OTHER THAN FOR FITTINGS & VALVES) SHALL BE WITH APPROVED PUSH-ON "GRIPPER-TYPE" RESTRAINTS. FITTINGS AND VALVES SHALL BE CONNECTED TO PIPE WITH MEGALUGS, OR APPROVED EQUAL.
- ALL POTABLE WATER SERVICE LATERAL, AIR RELEASE VALVES, AND TEMPORARY SAMPLE POINTS SHALL BE CONSTRUCTED OF BLUE SDR-9 HIGH DENSITY POLYETHYLENE (HDPE) TUBING. ALL HDPE TUBING SHALL BE INSTALLED WITHIN A CASING AS DEFINED IN THE SPECIFICATIONS AND DETAILS.

TESTING

- ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL BE PROPERLY PRESSURE TESTED, WITNESSED AND ACCEPTED BY THE CITY. PRESSURE TESTS TO BE PERFORMED IN ACCORDANCE WITH WATER DEPARTMENT SPECIFICATIONS. CONTRACTOR TO NOTIFY THE ASSIGNED CITY INSPECTOR A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE OF PERFORMING TESTS. CONTRACTOR SHALL PRESSURE TEST WATER MAINS AT A MINIMUM OF 150 PSI FOR A PERIOD OF 2 HOURS IN ACCORDANCE WITH AWWA C600-87 STANDARDS. THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS AND ARRANGEMENTS.
- ALL SAMPLE, PRESSURE TEST, AND CHLORINATION POINT PIPING SHALL BE COMPLETELY REMOVED PRIOR TO FINAL ACCEPTANCE. THE CORPORATION STOP SHALL BE CLOSED AND PLUGGED AT THE MAIN.
- CONTRACTOR SHALL PERFORM CHLORINATION AND HIRE INDEPENDENT FIRMS TO CONDUCT BACTERIOLOGICAL TESTING AS DEFINED IN F.A.C. 62-555.340. CONTRACTOR TO SUPPLY THE CITY WITH AS-BUILTS AND SAMPLE RESULTS NECESSARY TO OBTAIN DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) CLEARANCES.

RESTORATION

- ROADWAY RESTORATION SHALL BE IN CONFORMANCE WITH CORRESPONDING JURISDICTION'S LATEST STANDARDS.
- DISTURBANCE TO ANY PROPERTY, PUBLIC OR PRIVATE, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE FLOW OF WATER ALONG A STREET AND DOCUMENT WHERE STANDING WATER IS PRESENT AND NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL RECONSTRUCT PAVEMENT ADJACENT TO THE GUTTERS AND AT STREET INTERSECTIONS TO OBTAIN SATISFACTORY DRAINAGE TO THE INLETS FROM THE INTERSECTING STREETS.

PROJECT SPECIFIC NOTES

- 6" & 8" PVC WATERMAIN SHALL BE CERTA-LOK C900RJIB (RESTRAINED JOINT INTEGRAL BELL OR APPROVED EQUAL) AND SHALL BE OPEN CUT INSTALLATION, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY METER AS POTABLE WATER PRIOR TO CONNECTION OF NEW SERVICE LINE.
- BRICKS ROAD SHALL BE RESTORED IN CONFORMANCE WITH THE CITY OF TAMPA "PAVEMENT/RIGHT OF WAY RESTORATION REQUIREMENTS - REV 2012".
- PAVER DRIVEWAYS SHALL BE PAID UNDER CONTRACT PAY ITEM 9211, "RESTORE BRICK PAVEMENT".
- CROSSWALK STRIPING ON S. MACDILL AVE. AT W. BAY TO BAY BLVD. AND W. BARCELONA ST. SHALL CONFORM TO FDOT INDEX NO. 17346, LATEST EDITION FOR "SPECIAL EMPHASIS CROSSWALK MARKING DETAIL" OR AS REQUIRED BY THE PERMITTING AGENCY.
- CONTRACT PAY ITEM 9224, "12" THERMOPLASTIC STRIPING FOR CROSSWALKS" SHALL BE USED TO PAY FOR REPLACING THE CROSSWALKS AT THE ABOVE TWO INTERSECTIONS. ALL OTHER STRIPING AND PAVEMENT MARKINGS SHALL BE CONSIDERED INCIDENTAL AND PRORATED UNDER OTHER CONTRACT PAY ITEMS.
- CONTRACTOR SHOULD EXPECT CONFLICTS WITH OTHER UTILITY SERVICES AND SHOULD FIELD ADJUSTED PIPE DEPTH BY DEFLECTION UNLESS SPECIFICALLY CALLED OUT IN PLANS TO AVOID OTHER UTILITY SERVICES WITH A MINIMUM OF 3 FEET OF COVER AS REQUIRED. BENDS ARE NOT AN APPROVED OFFSET METHOD TO GO AROUND WASTEWATER LATERALS OR OTHER UTILITIES IN CONFLICT WITH THE MINIMUM DEPTH REQUIREMENT OF THE PIPE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR ADDITIONAL DEPTH EXCEPT AS PROVIDED FOR IN CONTRACT PAY ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGED SANITARY LATERALS. NO PAYMENT SHALL BE MADE FOR PROPERLY MARKED LATERALS. SANITARY LATERALS "IMPROPERLY" MARKED AS DETERMINED BY THE ENGINEER, SHALL BE PAID UNDER THE APPROPRIATE CONTRACT PAY ITEM.

LEGEND

EXISTING		PROPOSED
	ASPHALT PAVEMENT	
	CONCRETE PAVEMENT	
	PAVERS	
	BASE LINE (SURVEY LINE)	
	CENTER LINE	
	R/W LINE	
	PROPERTY LINE	
	ADJACENT PROPERTY LINE	
	BENCHMARK & NUMBER	
	TEMPORARY BENCHMARK & NUMBER	
	EASEMENT LINE	
	GAS MAIN	
	STORM SEWER	
	SANITARY SEWER	
	SANITARY FORCE MAIN	
	ELECTRIC CABLE	
	TELEPHONE CABLE	
	TELEVISION CABLE	
	WATER MAIN	
	RECLAIMED WATER MAIN	
	FIRE HYDRANT ASSEMBLY (INCL. VALVE & TEE)	
	WATER VALVE	
	DETECTOR CHECK VALVE	
	DOUBLE DETECTOR CHECK VALVE - IN VAULT	
	DOUBLE DETECTOR CHECK VALVE - ABOVE GROUND	
	VAULT	
	CASING PIPE (JACK & BORE)	
	WATER METER	
	RECLAIMED WATER METER	
	METER TO BE TRANSFERRED	
	BACK FLOW PREVENTER	
	WET TAP	
	SLEEVE, BEND, TEE, CROSS, PLUG, REDUCER, BLOW-OFF	
	SAMPLE TAP LOCATION	
	CHLORINE INJECTION POINT	
	ELECTRIC MANHOLE OR PULL BOX, POLE	
	TELEPHONE MANHOLE OR UTILITY BOX, POLE	
	MANHOLE - SANITARY, STORM VALVE	
	SANITARY LATERAL WITH DEPTH AT R/W LINE	
	STORM GRATE, CURB INLET	
	STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION	
	GUY POLE, GUY POLE AND WIRE	
	COMBINATION POLE, LIGHT POLE	
	MAILBOX	
	SIGN	
	PINE, TREE, PALM, OAK	
	ROOT PRUNE	
	SHRUB, HEDGE	
	WOODS/HEAVY BRUSH	
	SPOT ELEVATIONS	

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PALMA CEIA PHASE III

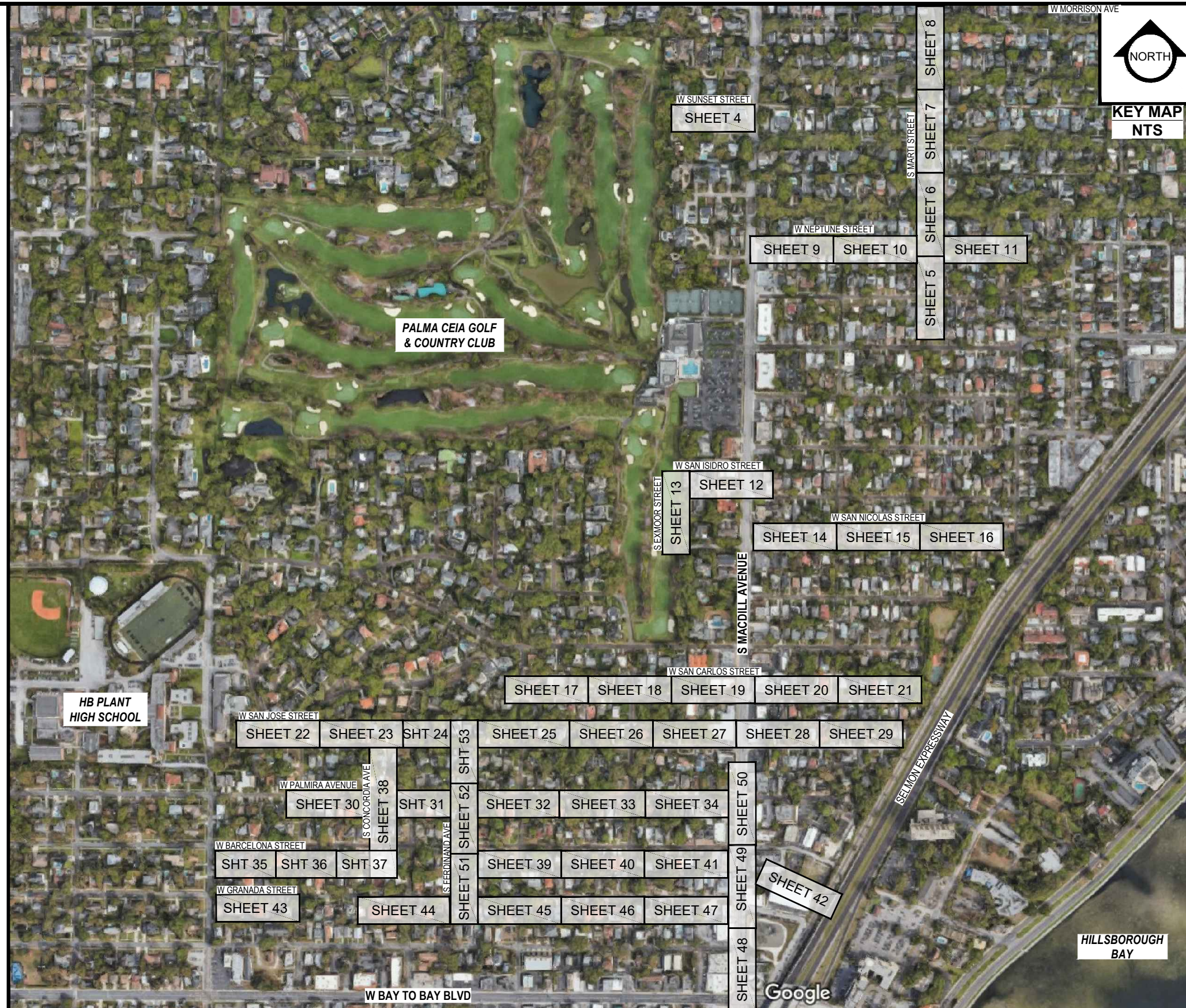
GENERAL NOTES



100% PLANS

WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
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PALMA CEIA PHASE III

KEY MAP



100% PLANS

WORK ORDER NO. WTR-18-0005

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Table with columns for street names (WSUNSET DRIVE, W NEPTUNE STREET, W SAN ISIDRO STREET, W SAN CARLOS STREET, S MACDILL AVENUE, W SAN NICOLAS STREET, S MARTI STREET, W SAN JOSE STREET, W PALMIRA AVENUE, W BARCELONA STREET, W GRNADA STREET) and rows of pipe details including pipe size, depth, invert, and material.

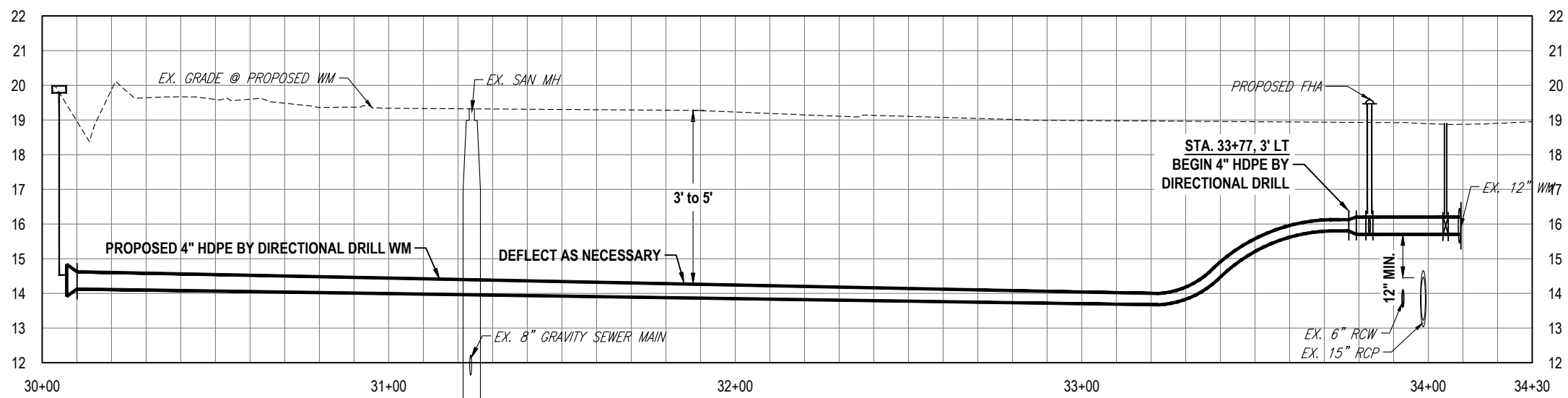
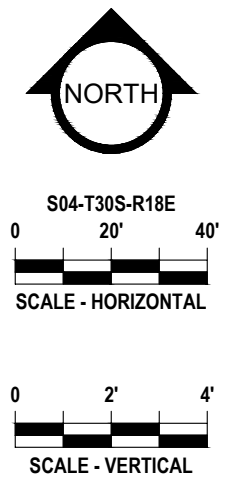
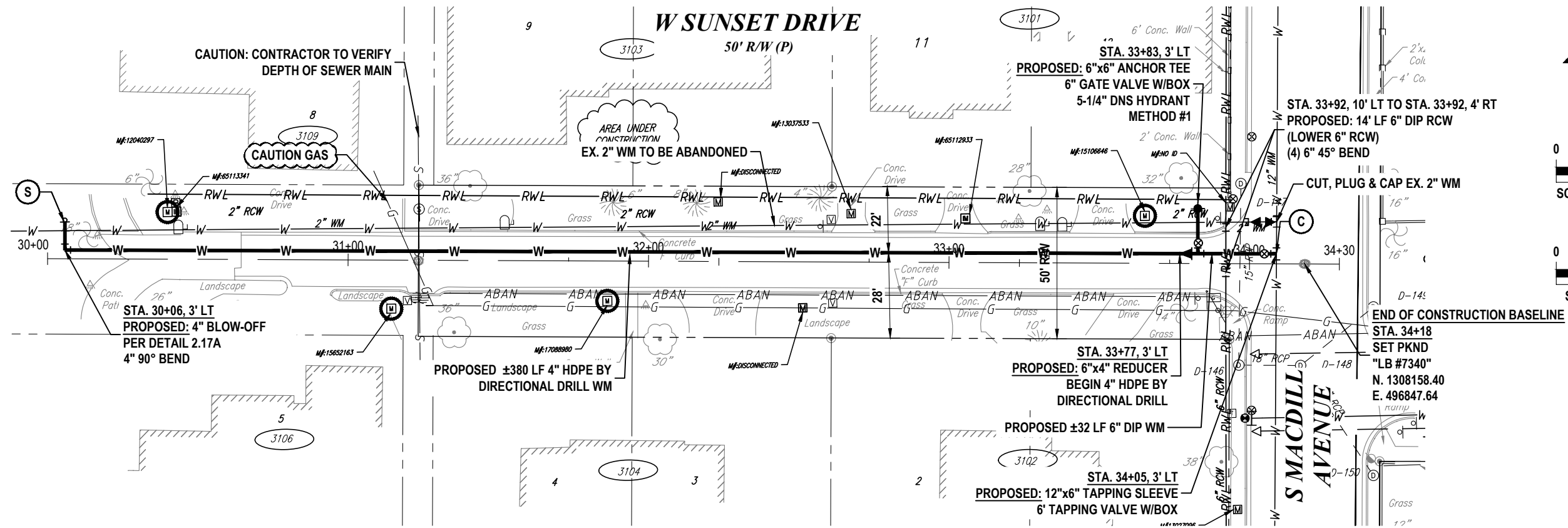
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Table with columns: REV NO., DATE, DESCRIPTION, BY, DESIGNED, CL, DRAWN, CHECKED, DATE. Includes revision details and design information.

PALMA CEIA PHASE III STRUCTURE DATA TABLE



Table with columns: 100% PLANS, WORK ORDER NO. (WTR-18-0005), RECORD DRAWING NO., ATLAS PAGEJ-10/K10, SHEET 3B OF 90



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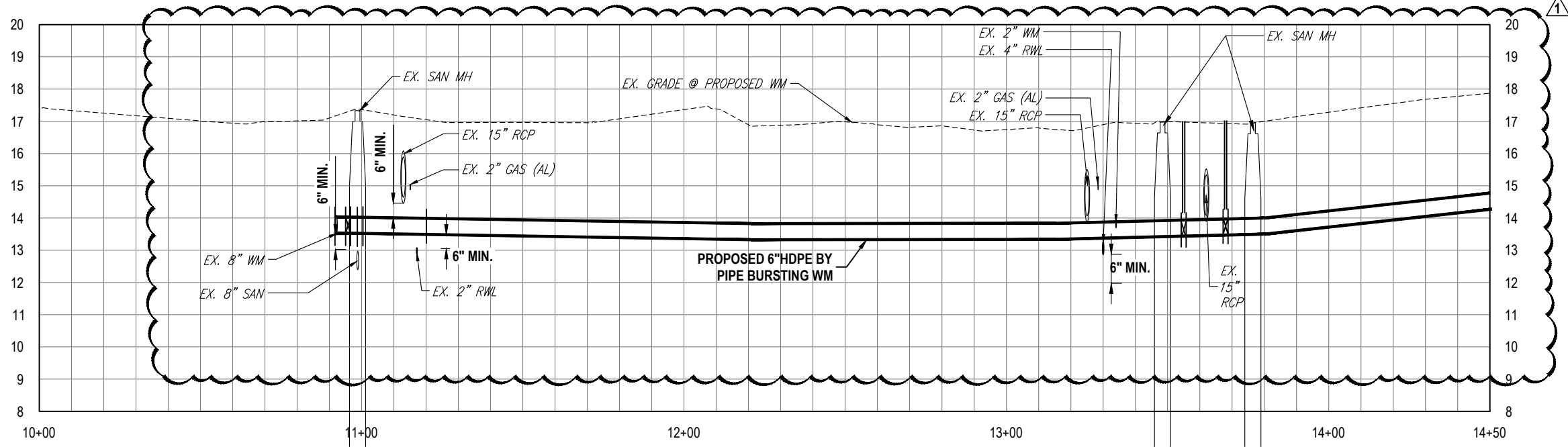
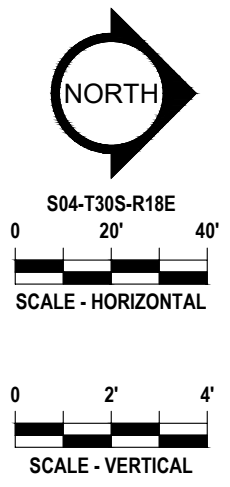
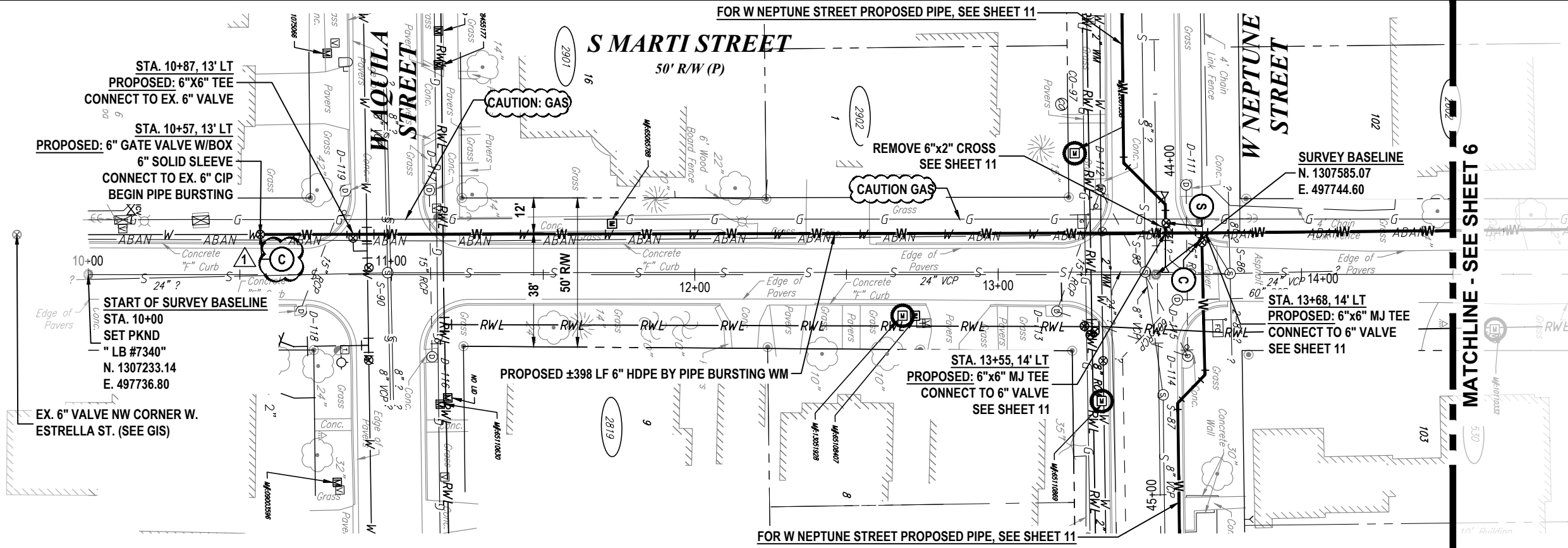
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PALMA CEIA PHASE III

W SUNSET DRIVE



100% PLANS	
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PALMA CEIA PHASE III

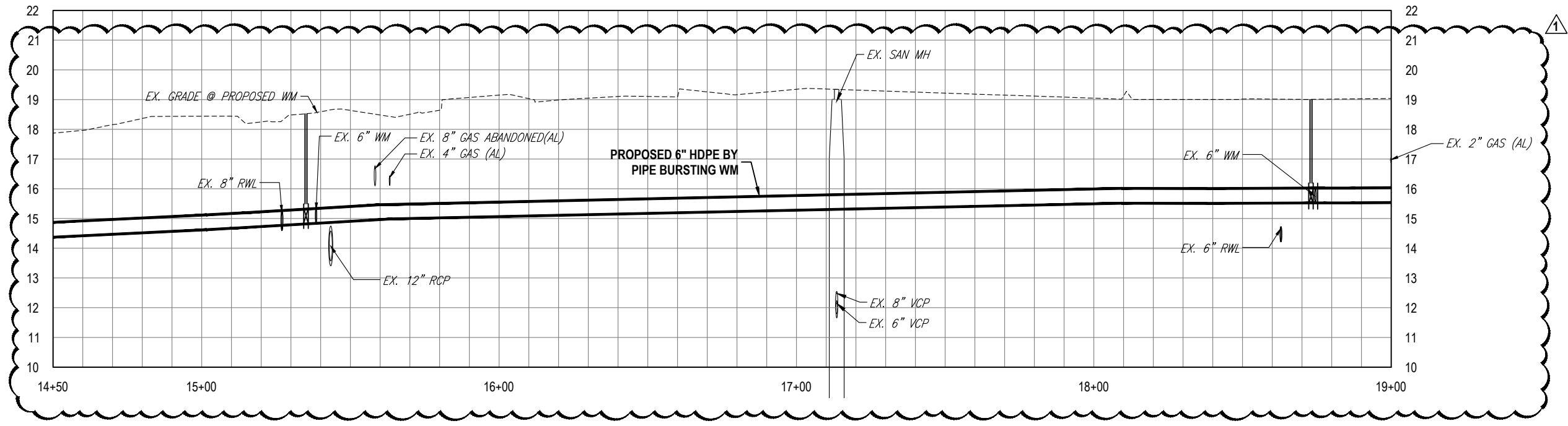
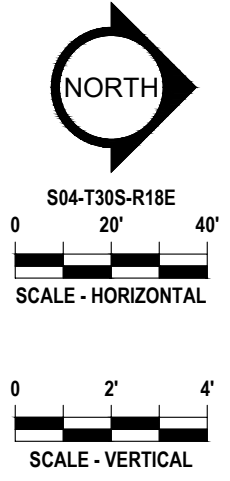
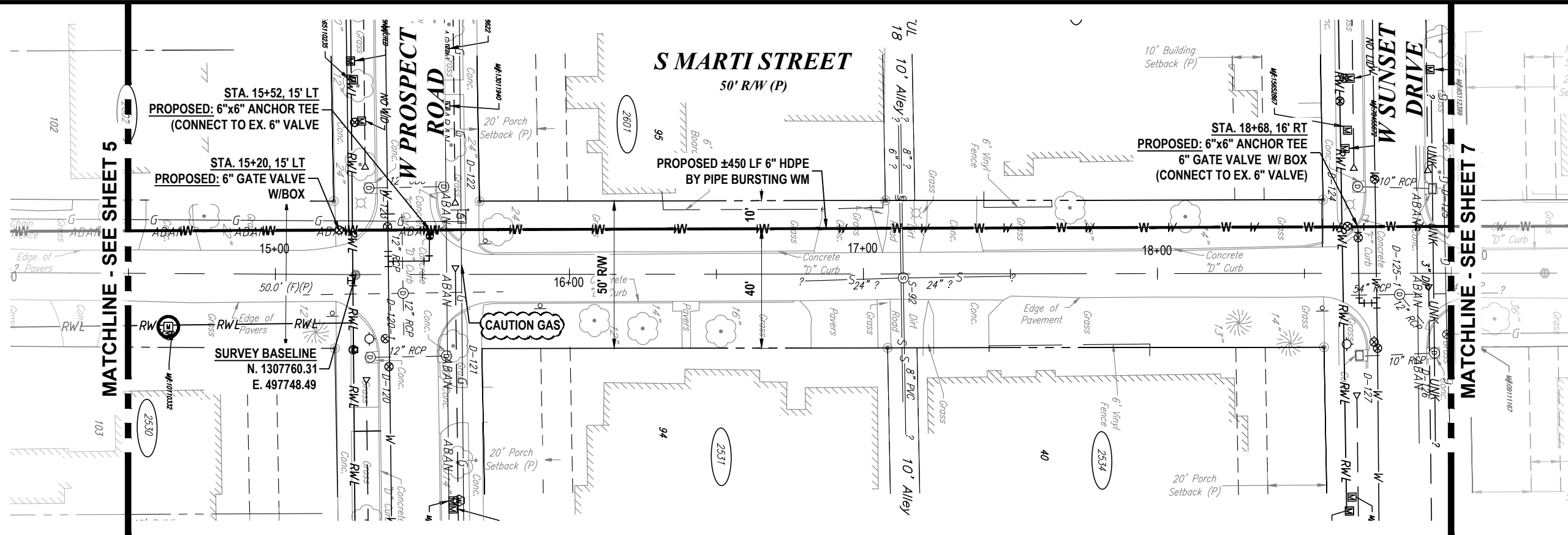
S MARTI STREET 1



100% PLANS

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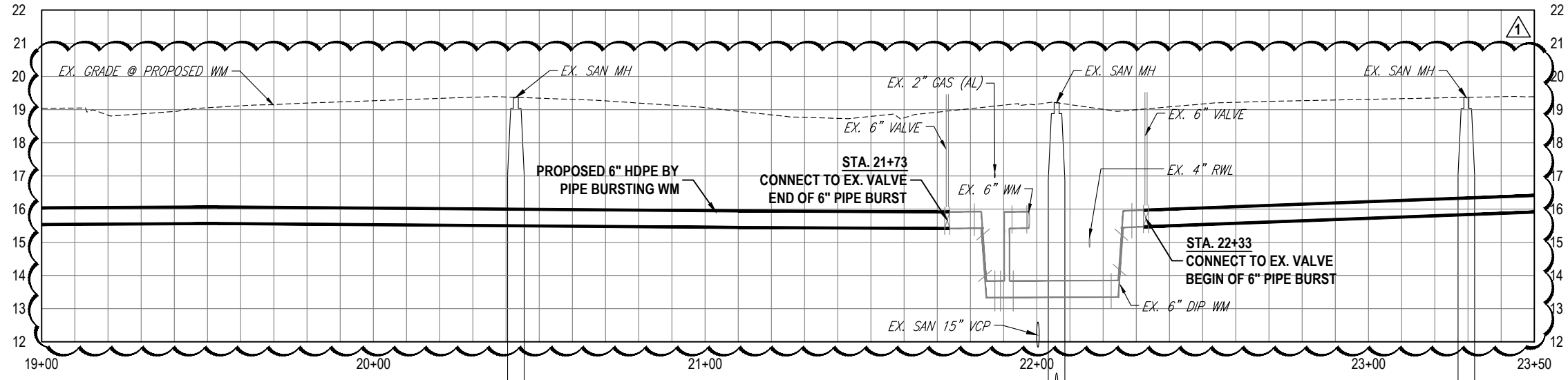
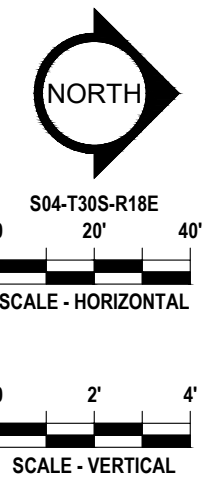
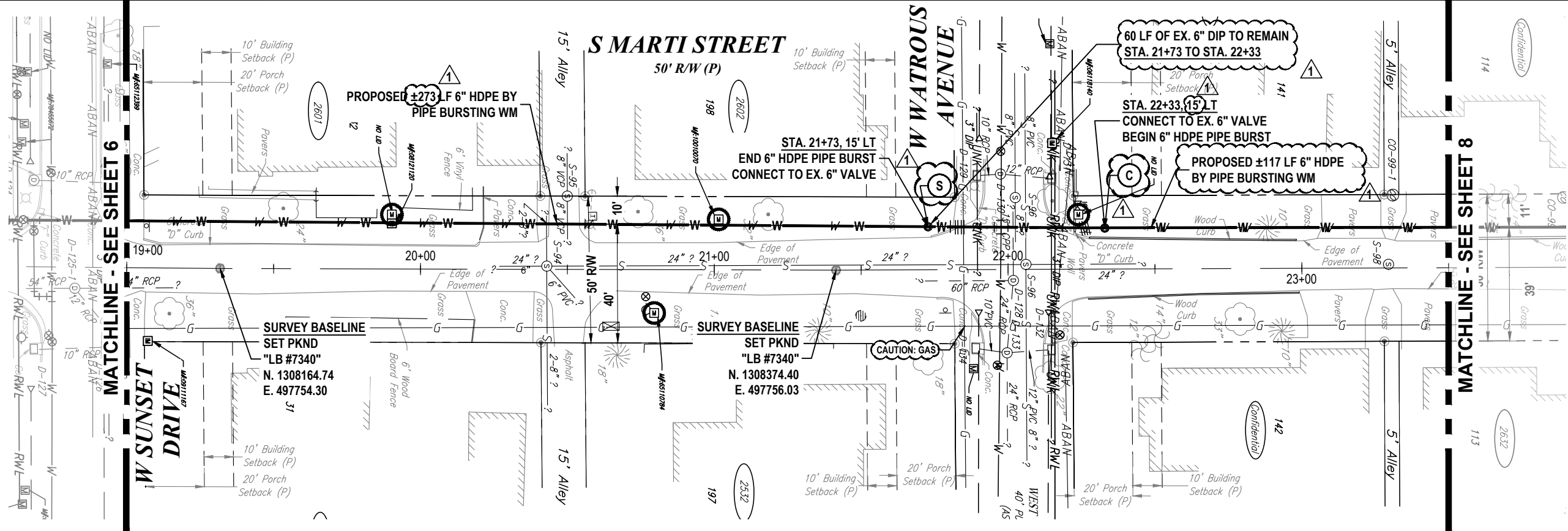
PALMA CEIA PHASE III

S MARTI STREET 2



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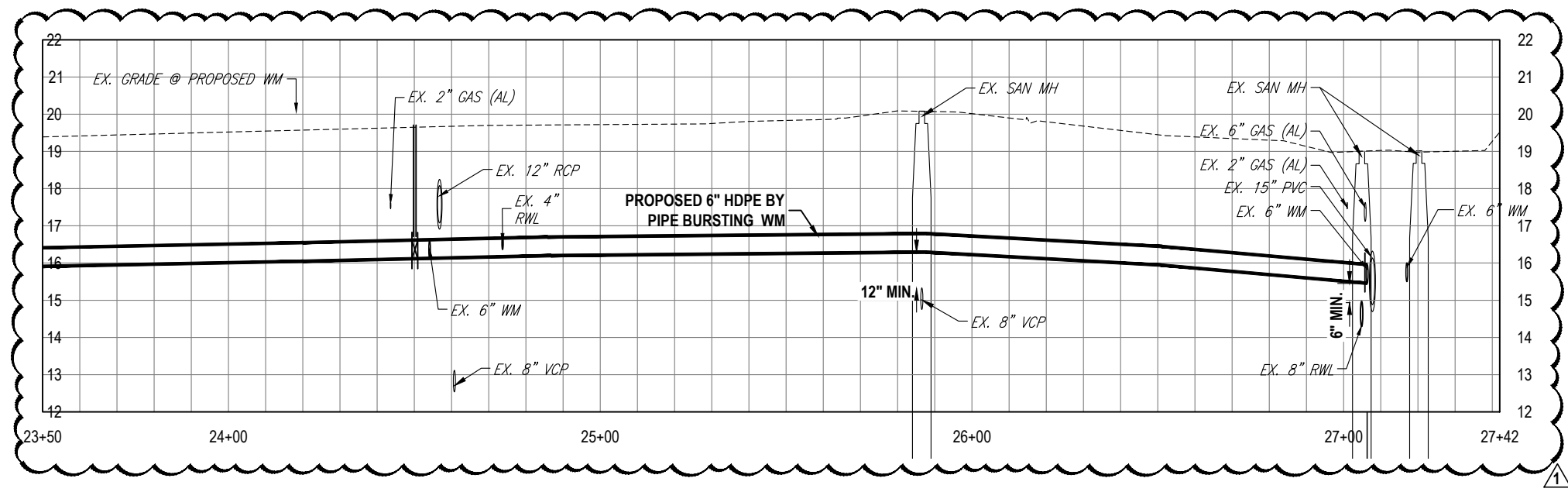
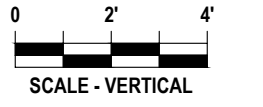
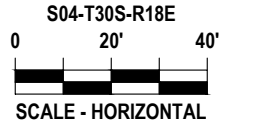
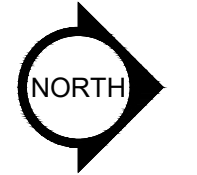
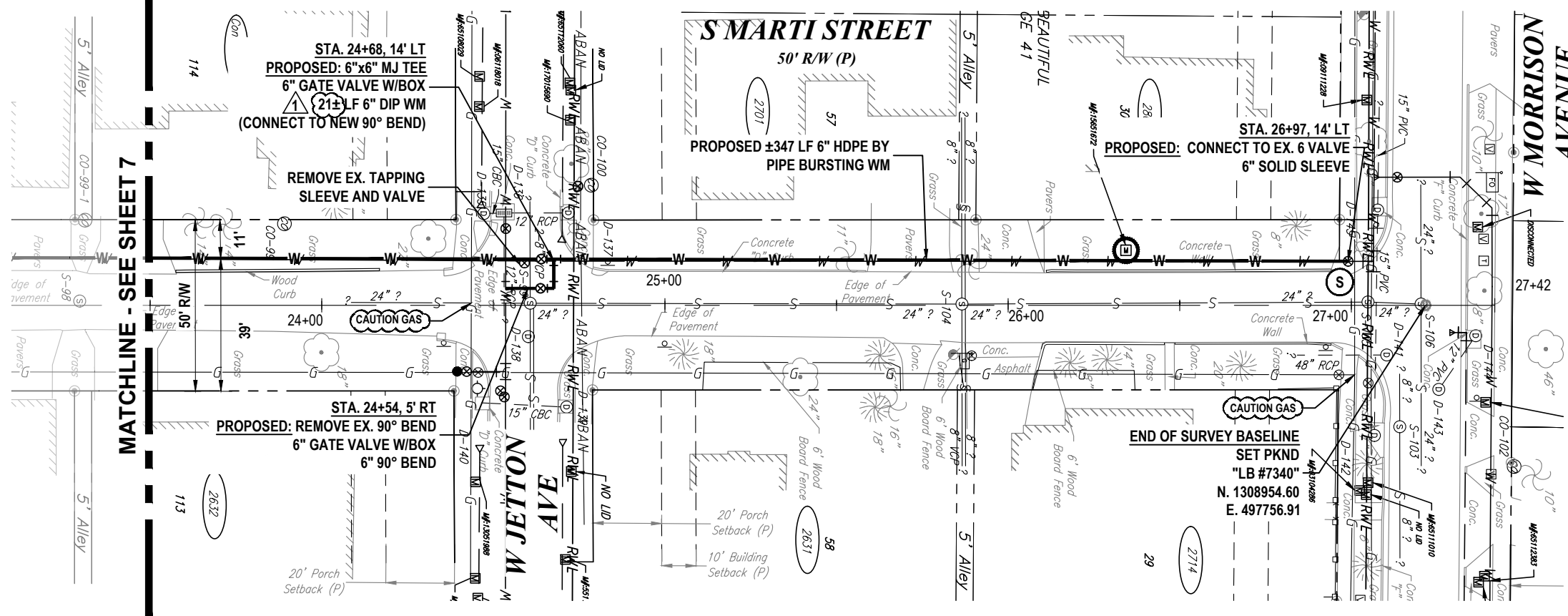
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PALMA CEIA PHASE III

S MARTI STREET 3



100% PLANS	
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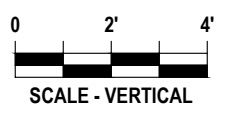
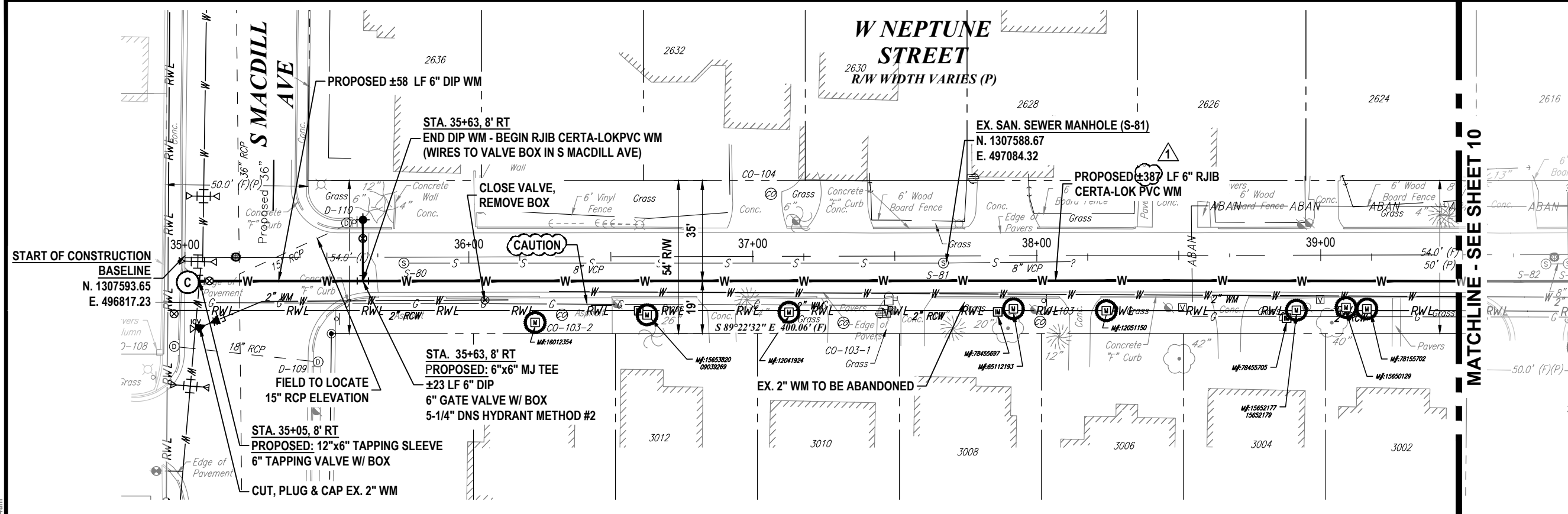
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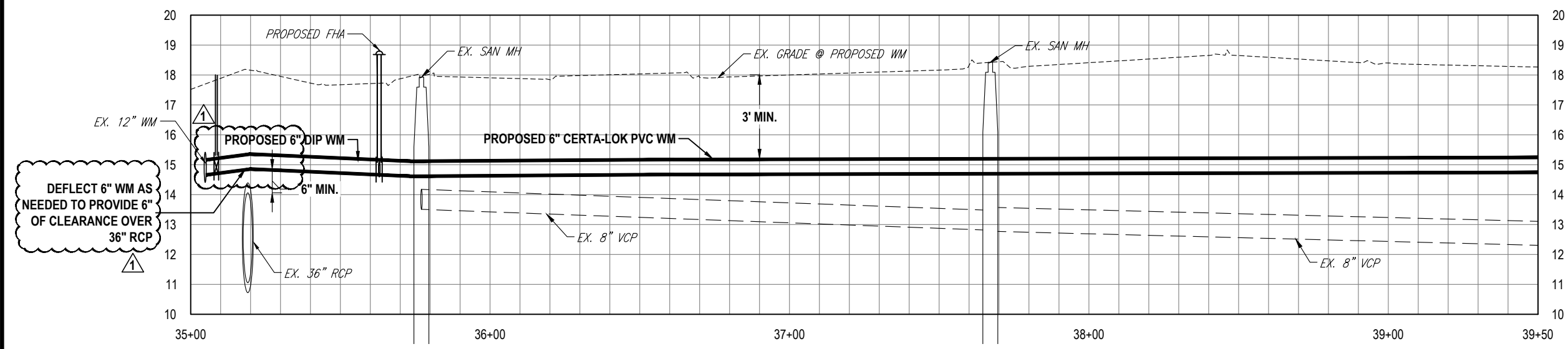
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MATCHLINE - SEE SHEET 10

START OF CONSTRUCTION
BASELINE
N. 1307593.65
E. 496817.23

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REV NO.	DATE	DESCRIPTION	BY	DESIGNED	CL
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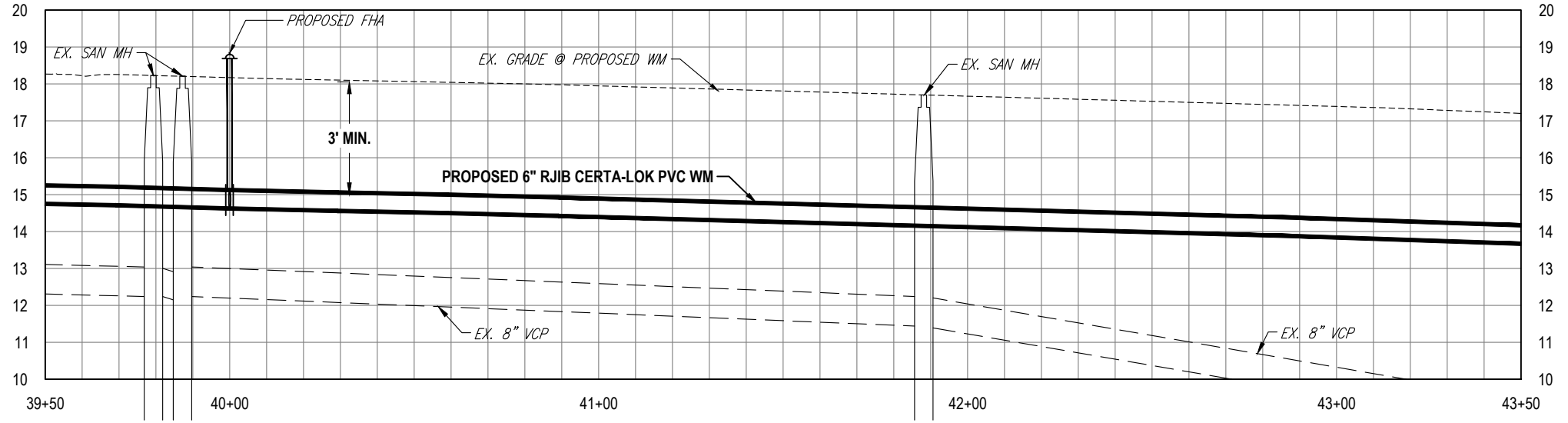
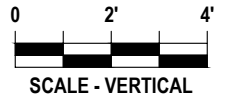
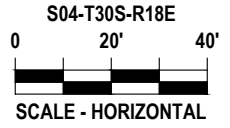
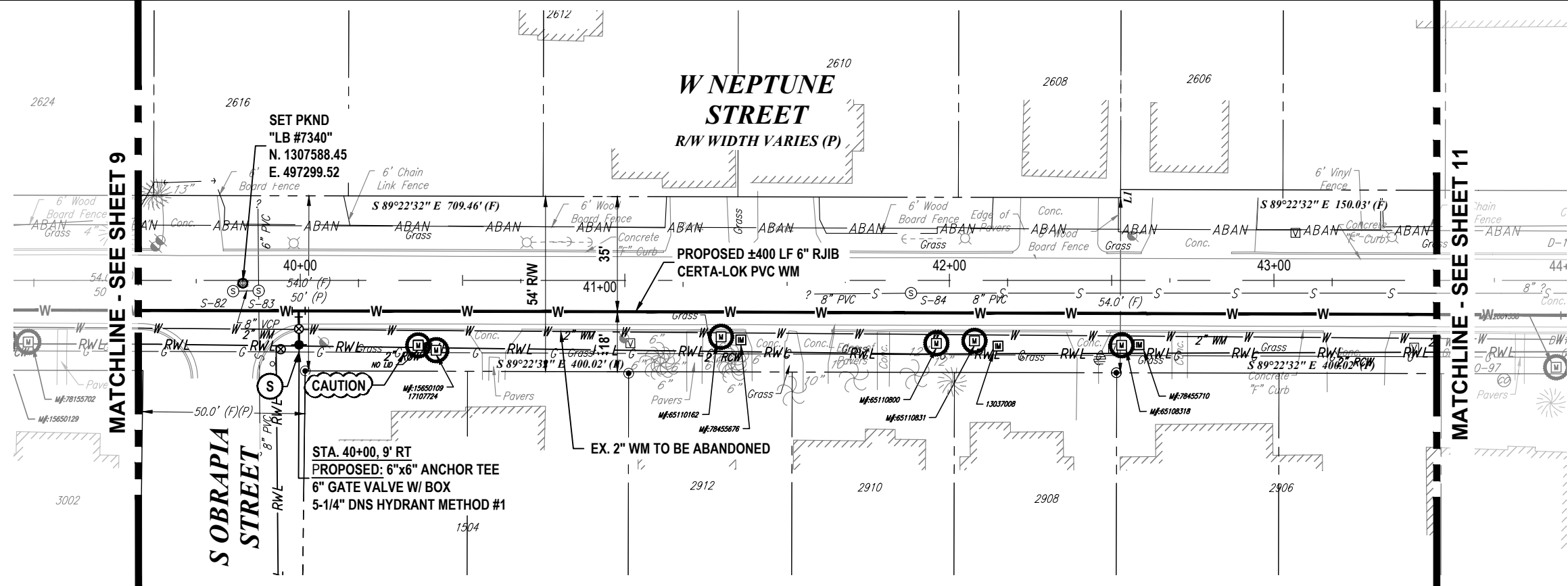
PALMA CEIA PHASE III

W NEPTUNE STREET 1

DATE 06/04/2019



100% PLANS
WORK ORDER NO. WTR-18-0005
RECORD DRAWING NO.
ATLAS PAGE J-10/K10 SHEET 9 OF 90



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RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

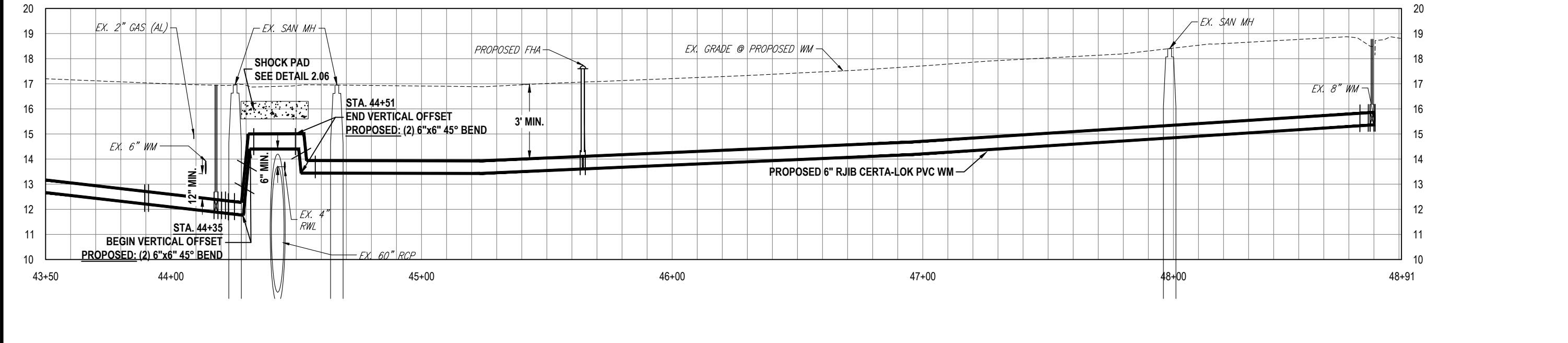
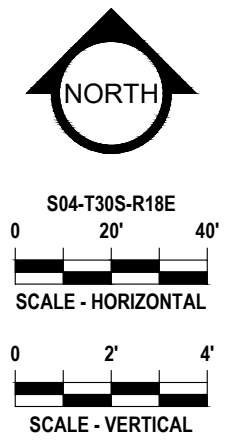
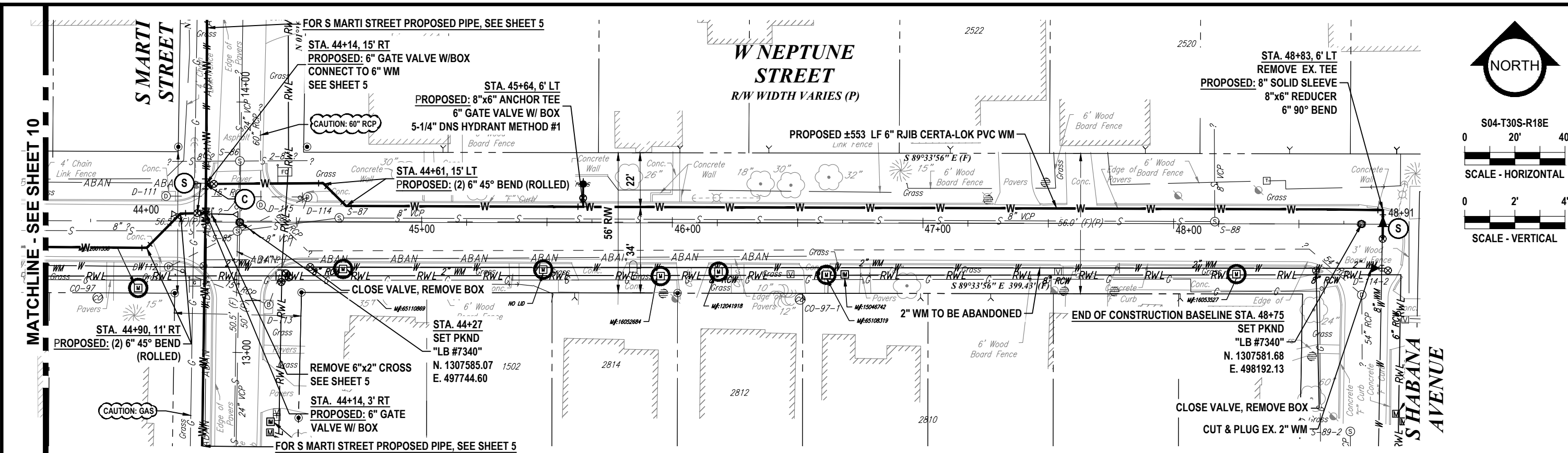
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PALMA CEIA PHASE III

W NEPTUNE STREET 2



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WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
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PALMA CEIA PHASE III

W NEPTUNE STREET 3

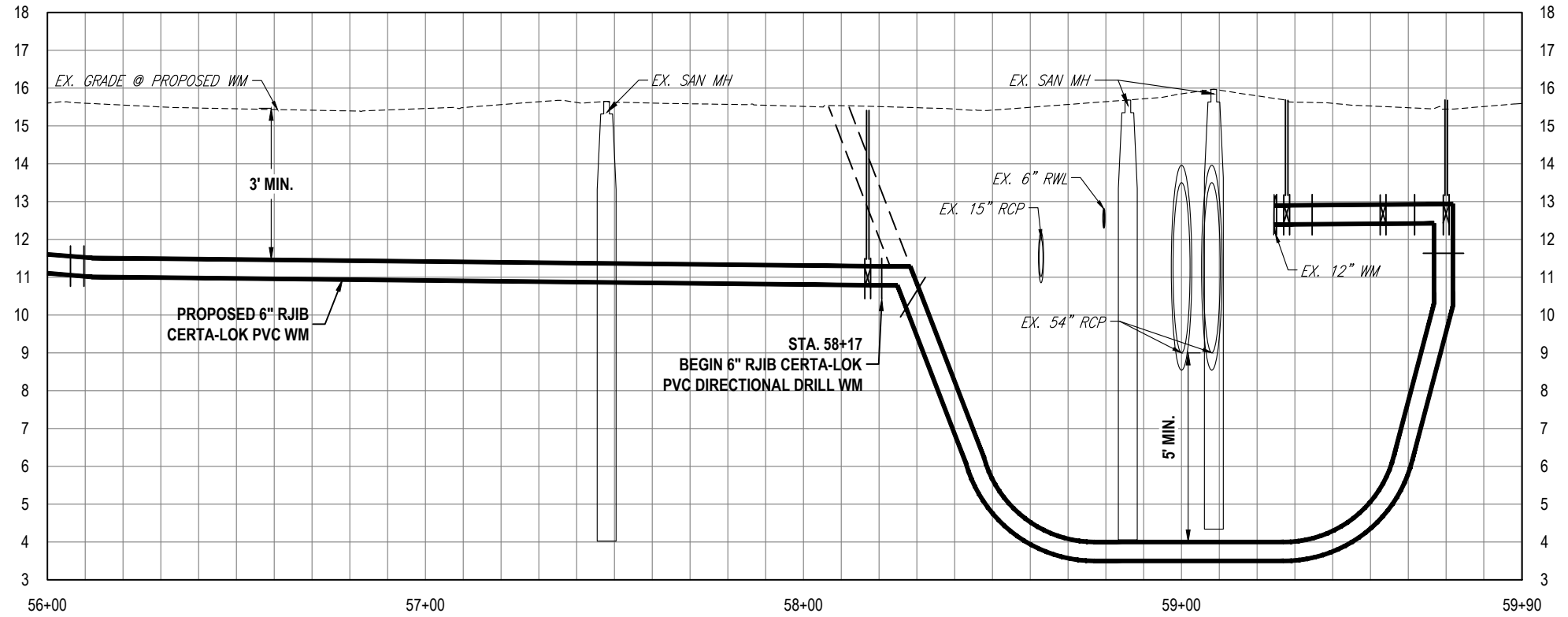
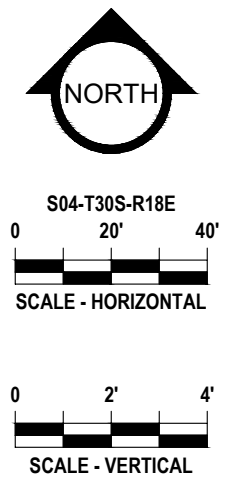
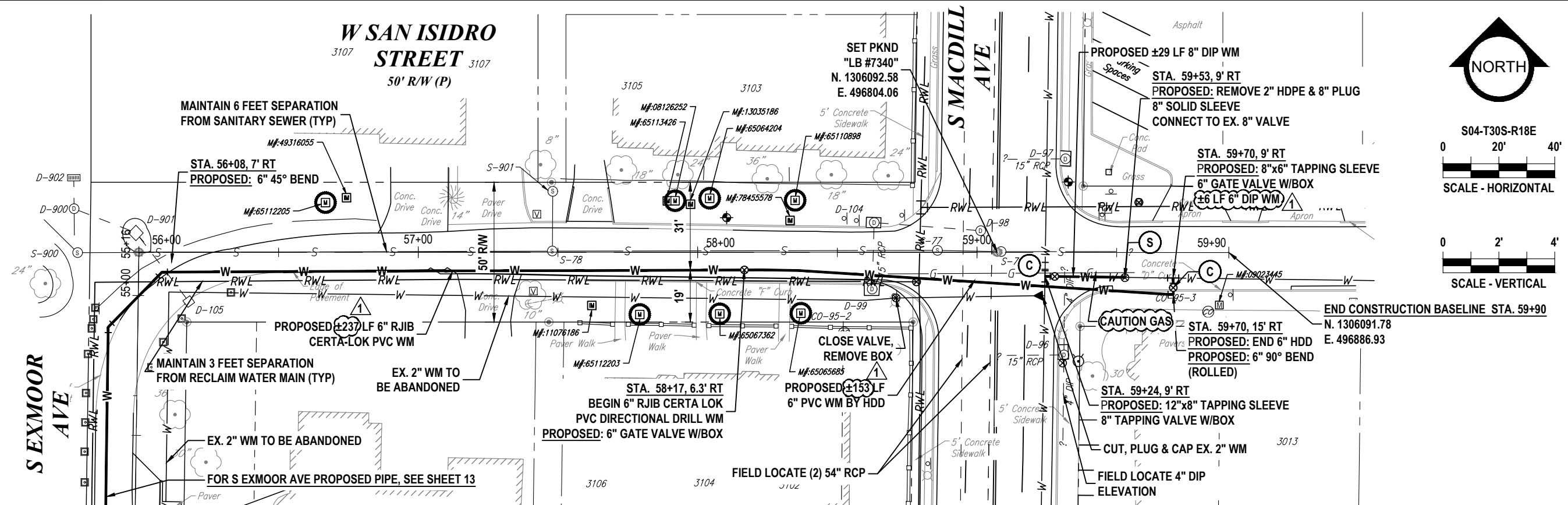


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WORK ORDER NO. **WTR-18-0005**

RECORD DRAWING NO.

ATLAS PAGE J-10/K10 SHEET **11 OF 90**



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 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

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1	01/19/2021	PERMIT REVISIONS	SV
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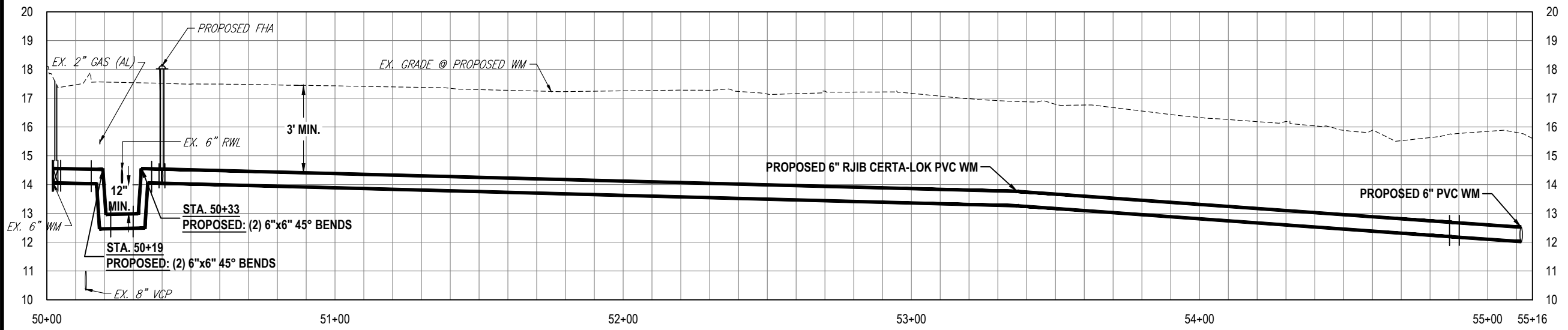
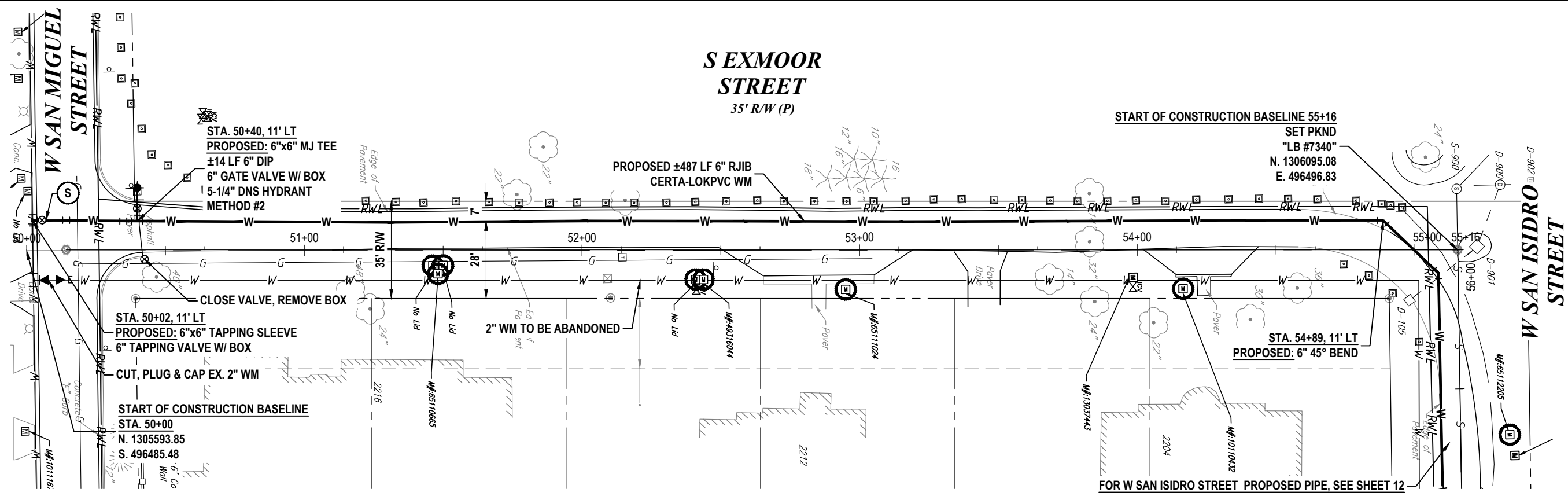
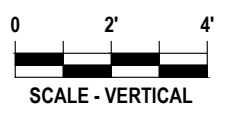
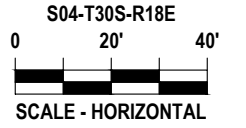
PALMA CEIA PHASE III
 W SAN ISIDRO STREET



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 12 OF 90

S EXMOOR STREET

35' R/W (P)



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
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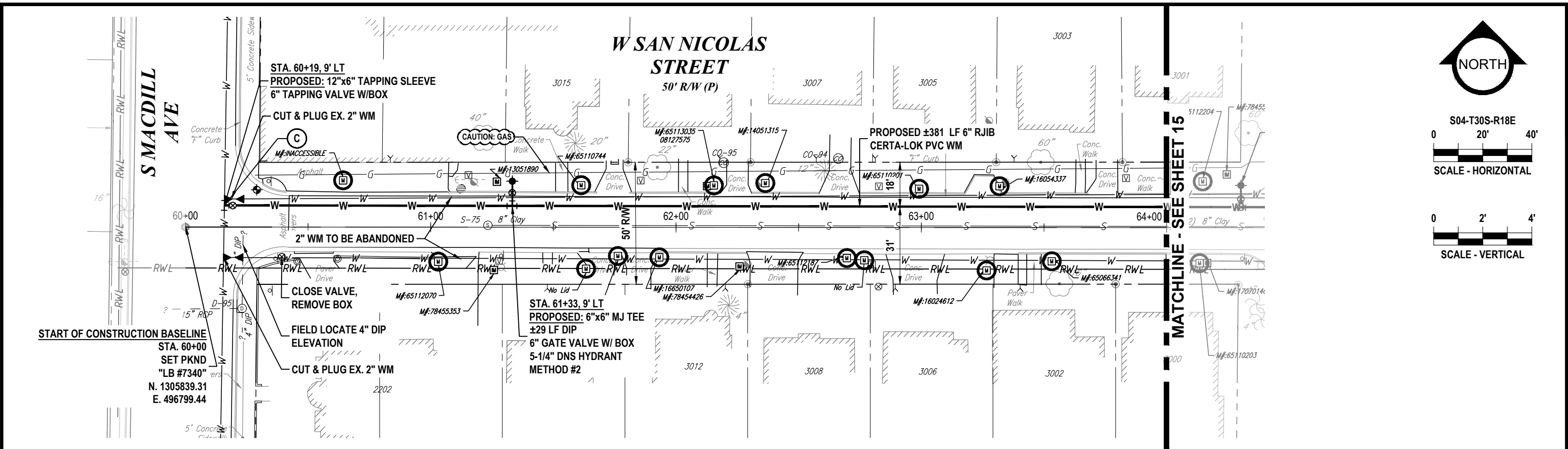
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DATE	06/04/2019

PALMA CEIA PHASE III
S EXMOOR STREET



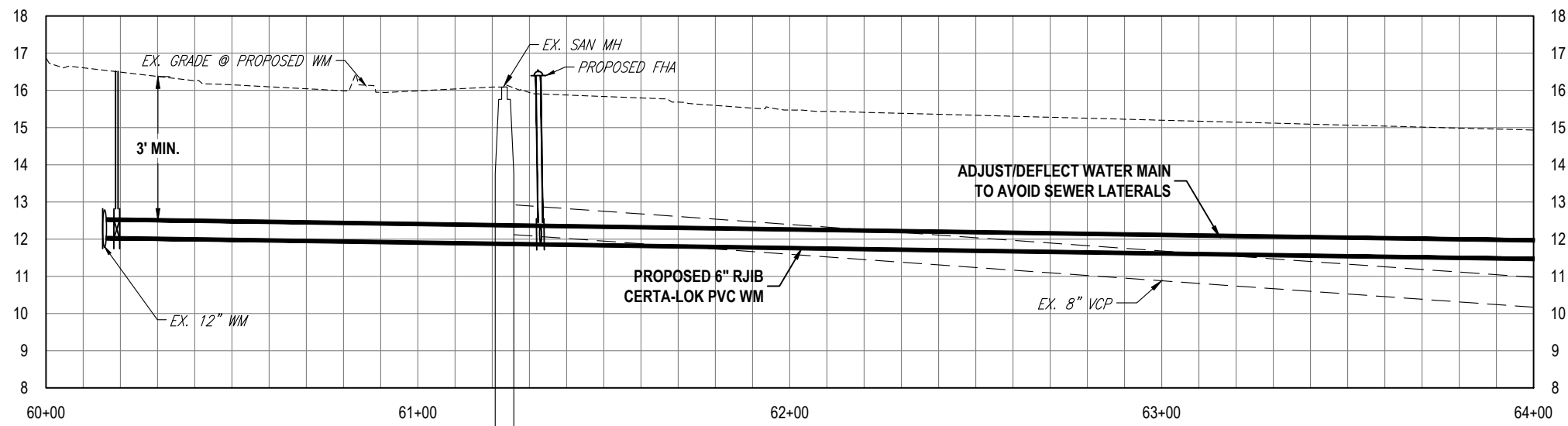
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S04-T30S-R18E
0 20' 40'
SCALE - HORIZONTAL

0 2' 4'
SCALE - VERTICAL



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
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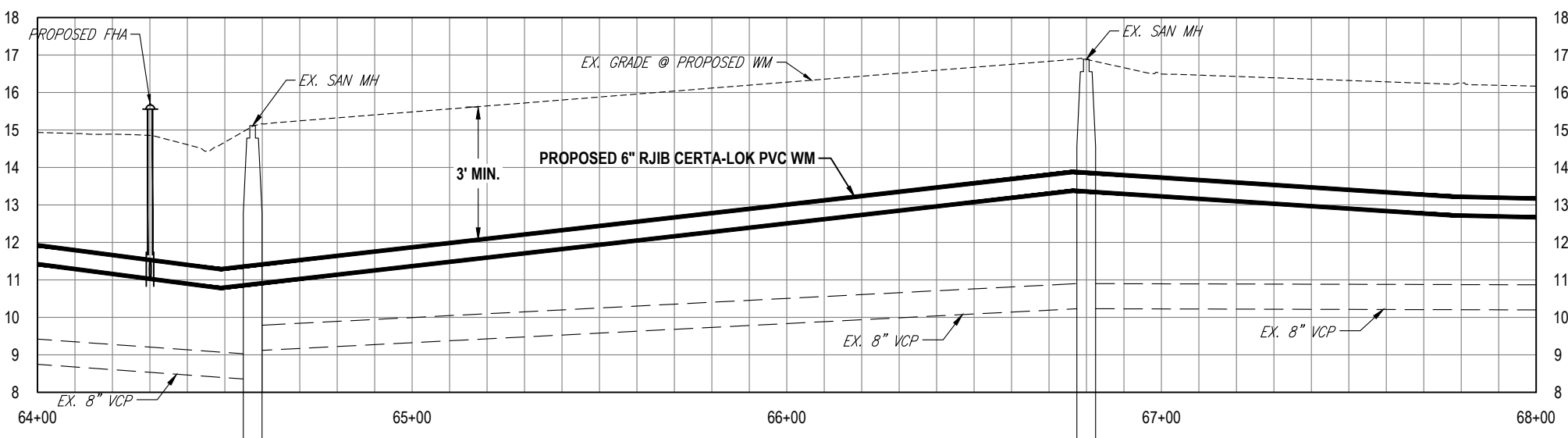
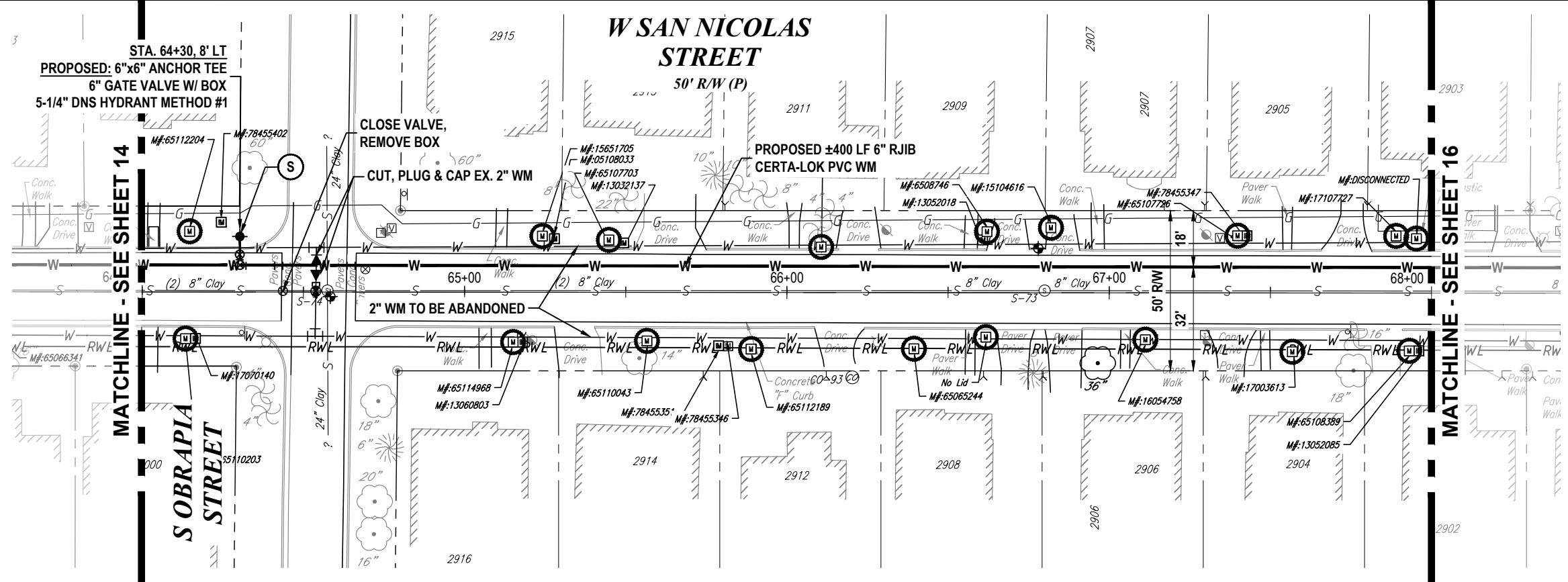
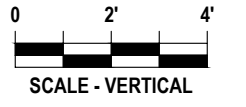
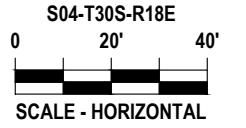
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DATE 06/04/2019

PALMA CEIA PHASE III
W SAN NICOLAS STREET 1



100% PLANS
WORK ORDER NO. WTR-18-0005
RECORD DRAWING NO.
ATLAS PAGE J-10/K10 SHEET 14 OF 90



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

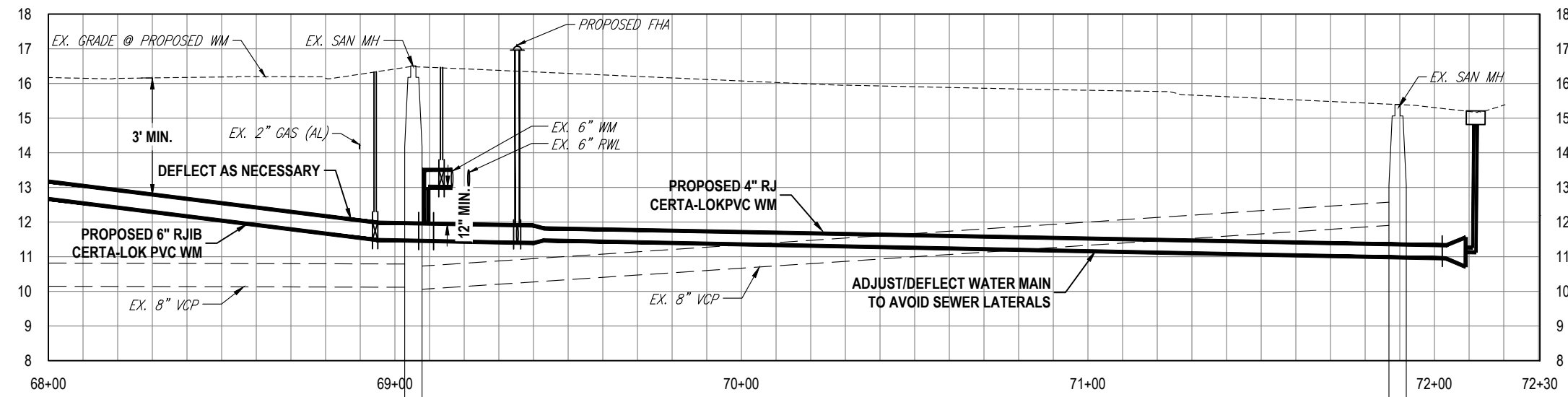
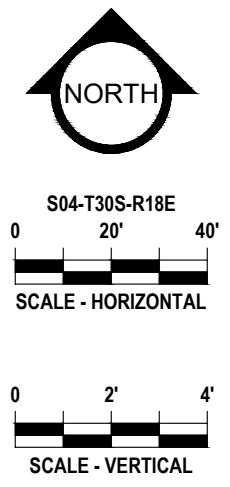
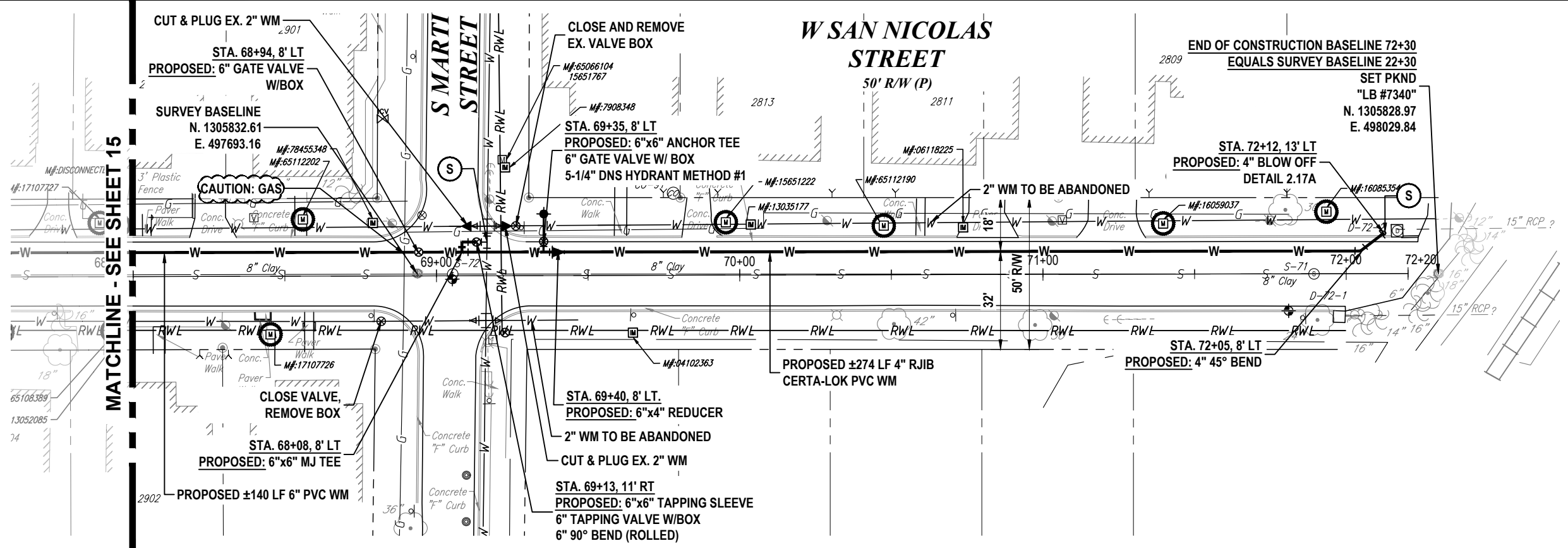
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PALMA CEIA PHASE III
W SAN NICOLAS STREET 2



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 15 OF 90

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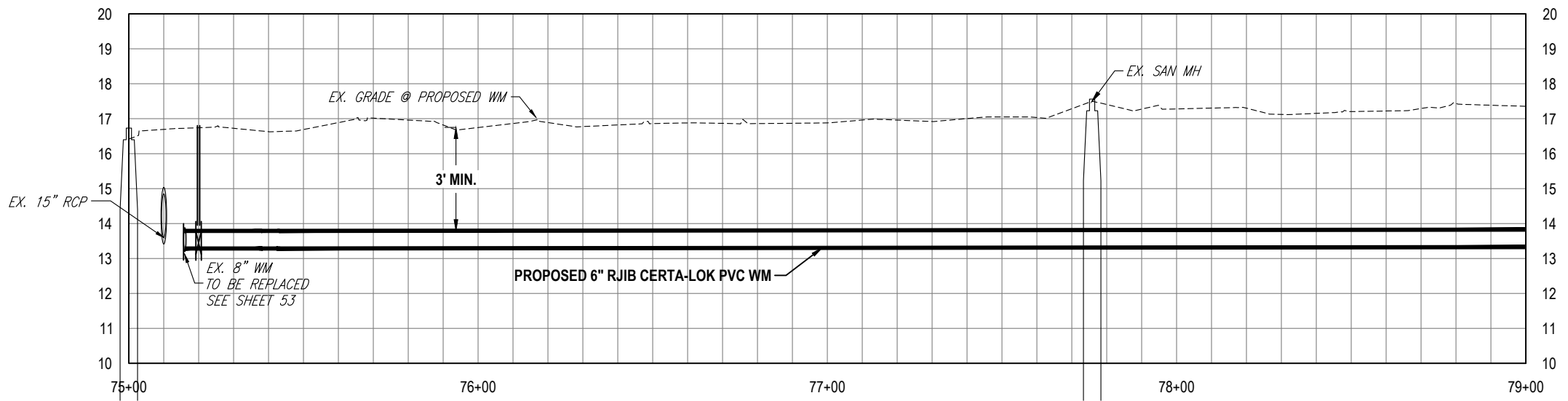
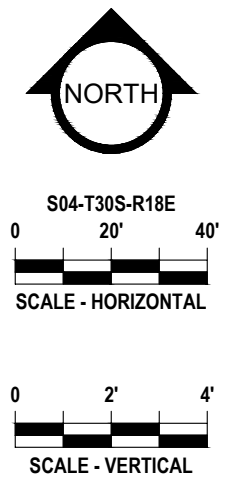
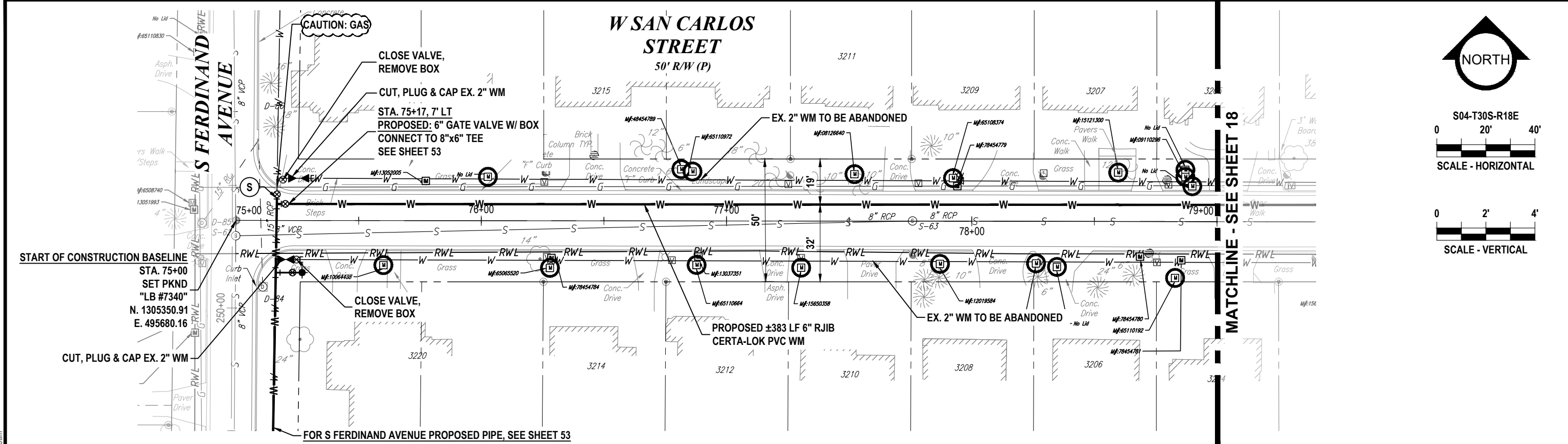
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PALMA CEIA PHASE III
 W SAN NICOLAS STREET 3



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
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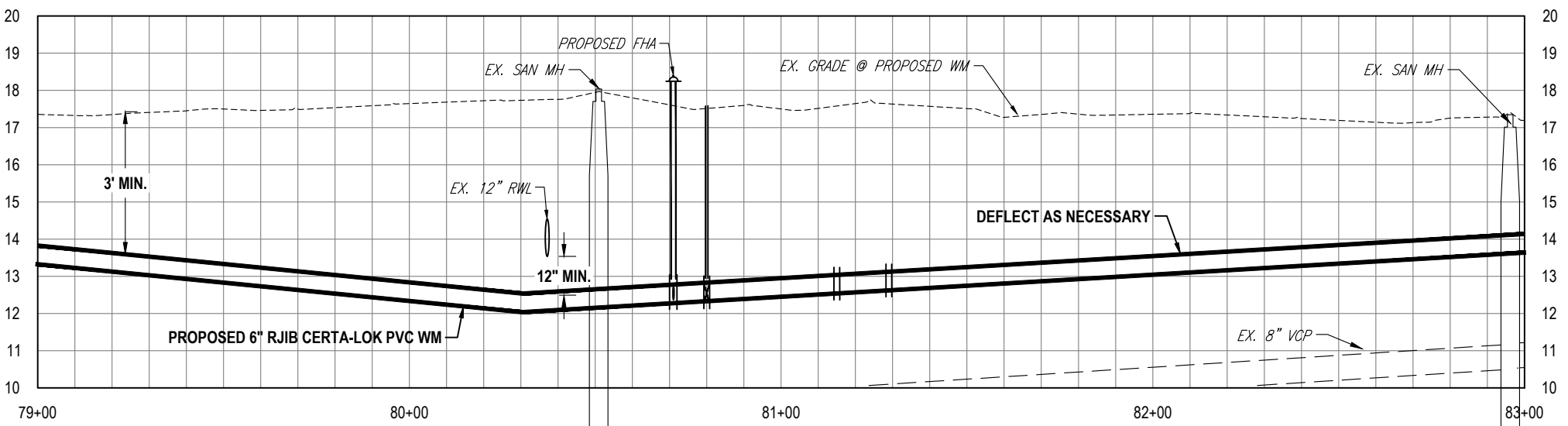
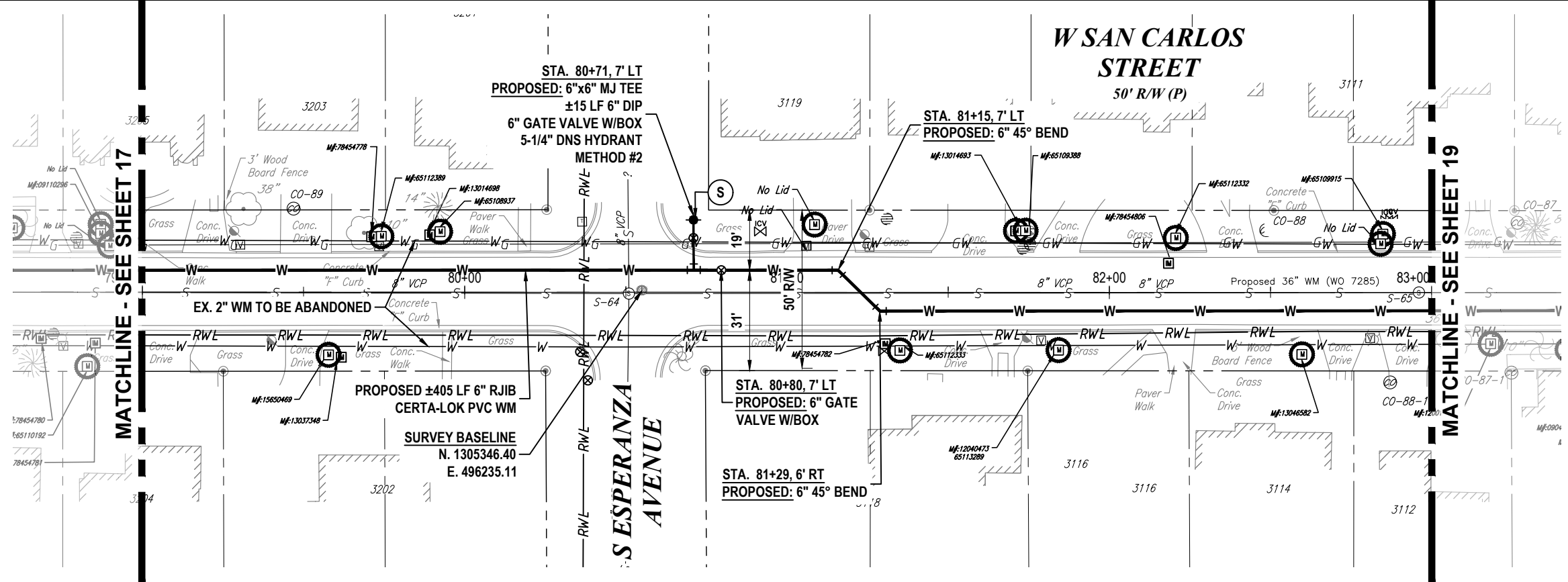
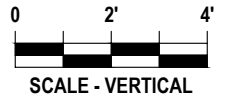
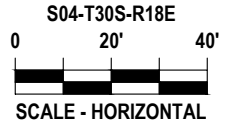
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PALMA CEIA PHASE III

W SAN CARLOS STREET 1



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WORK ORDER NO. WTR-18-0005
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ATLAS PAGE J-10/K10 SHEET 17 OF 90



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
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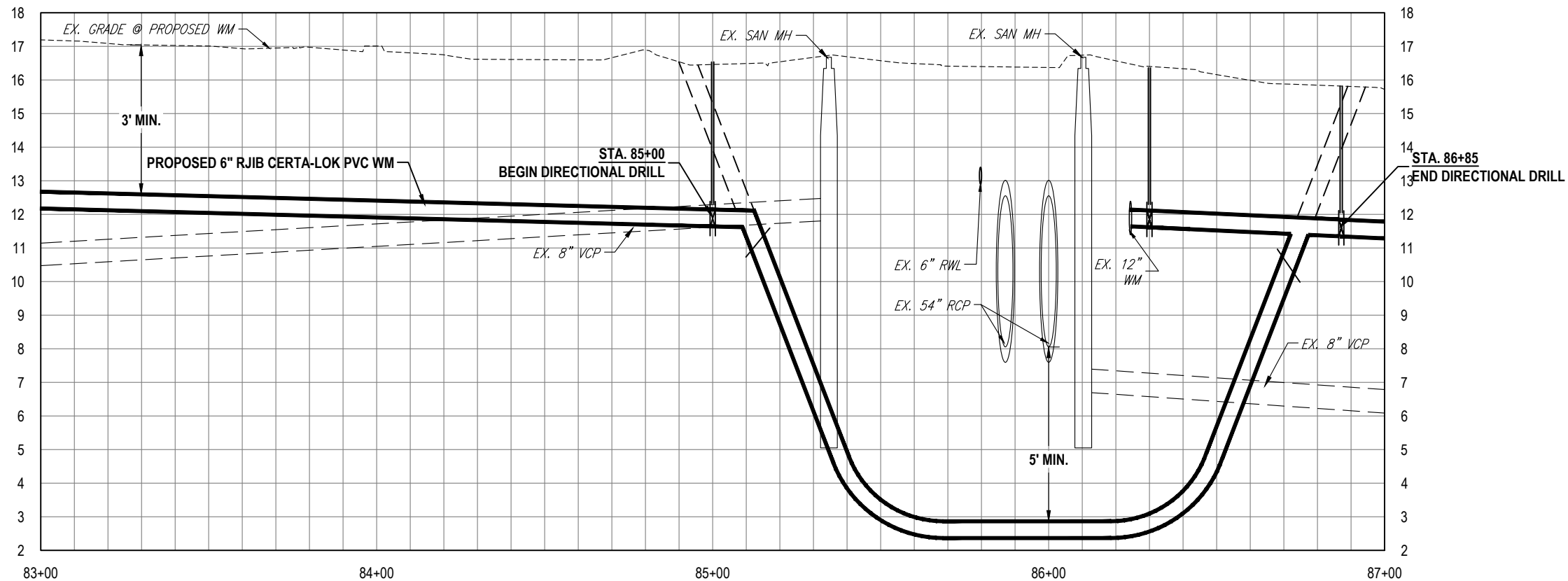
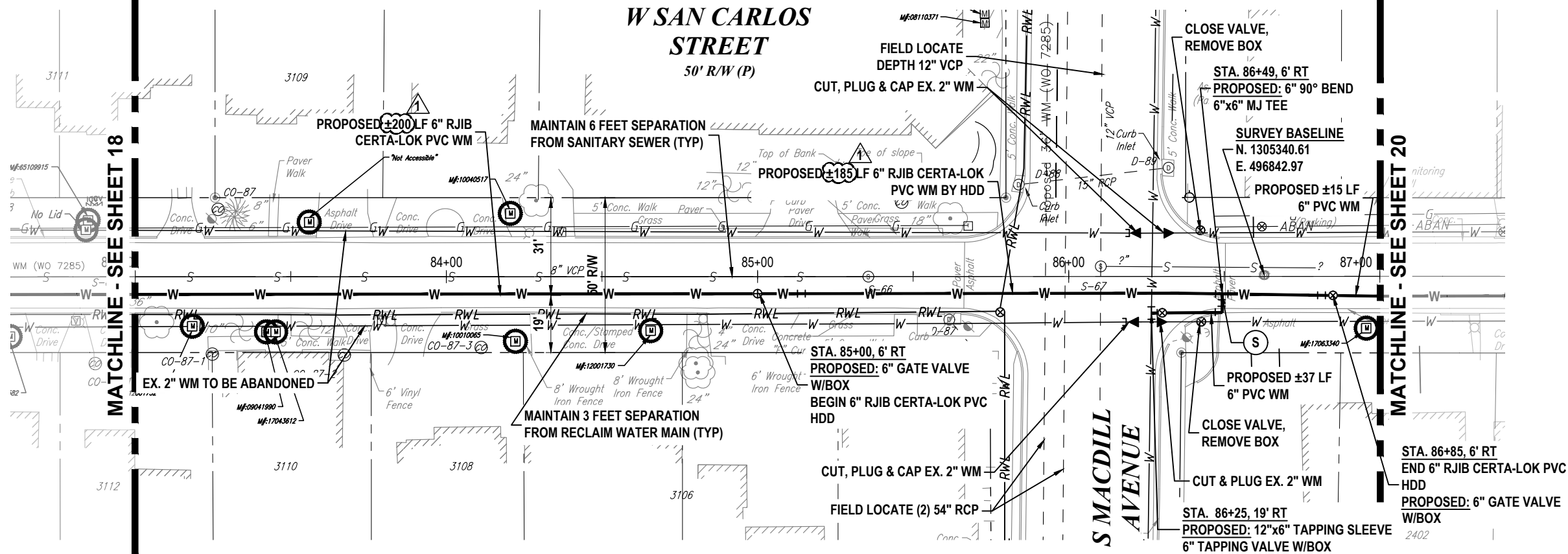
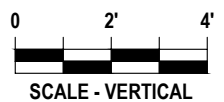
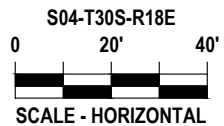
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PALMA CEIA PHASE III
W SAN CARLOS STREET 2



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 18 OF 90

W SAN CARLOS STREET
50' R/W (P)



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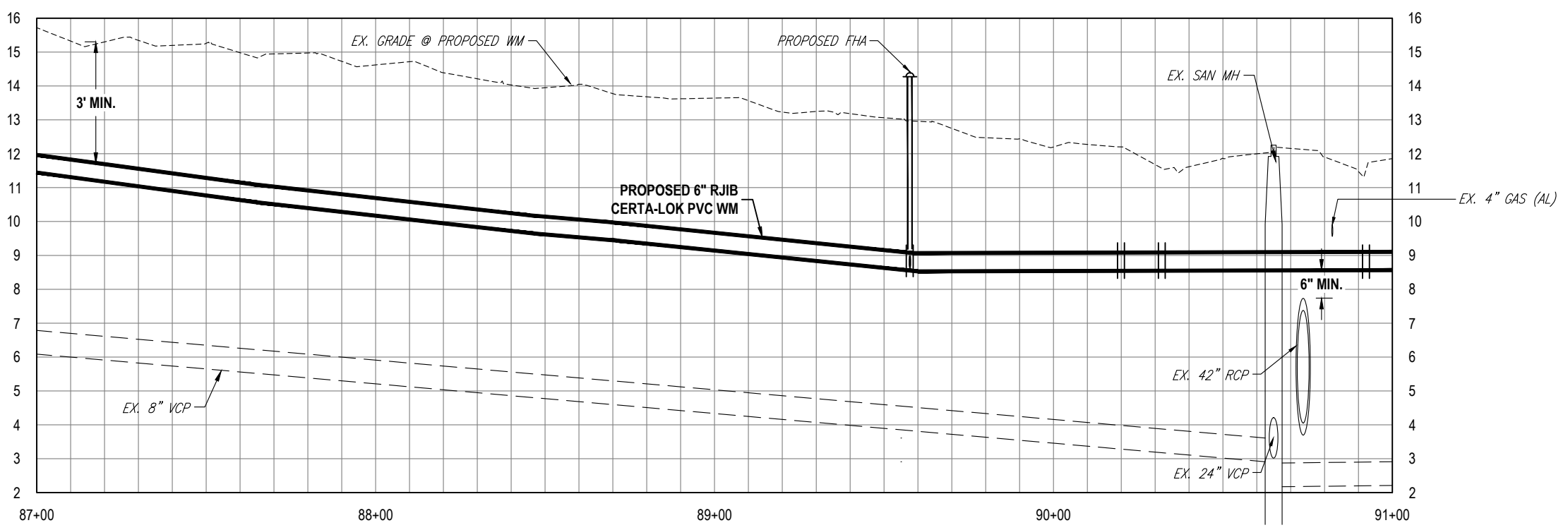
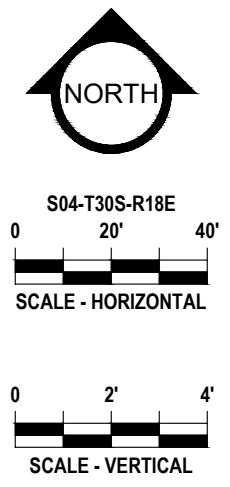
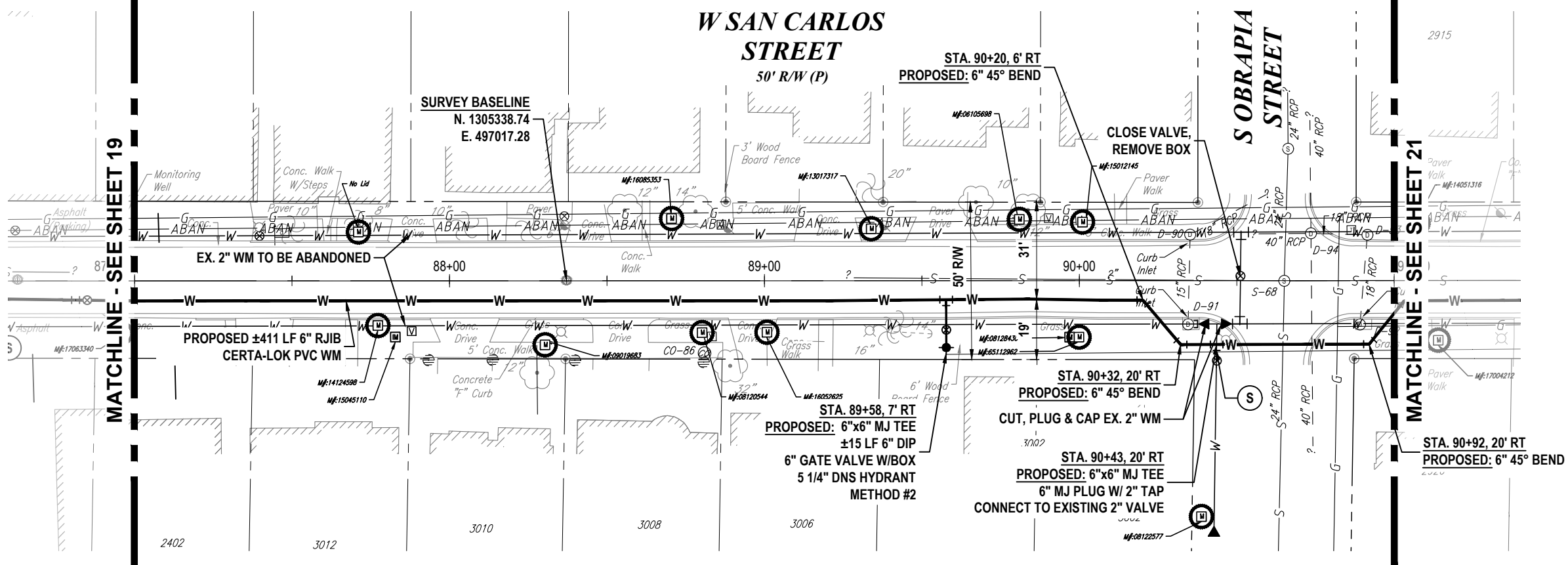
PALMA CEIA PHASE III
W SAN CARLOS STREET 3



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RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
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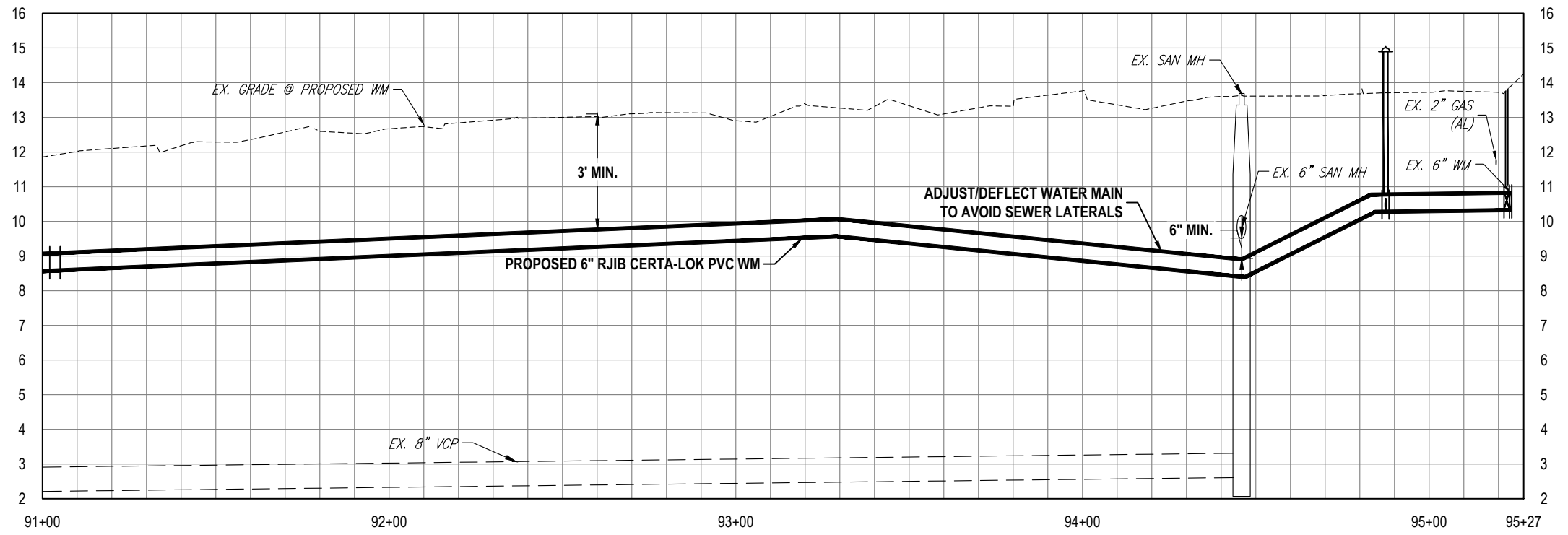
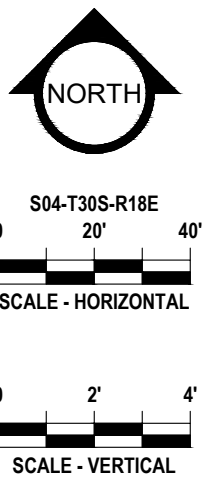
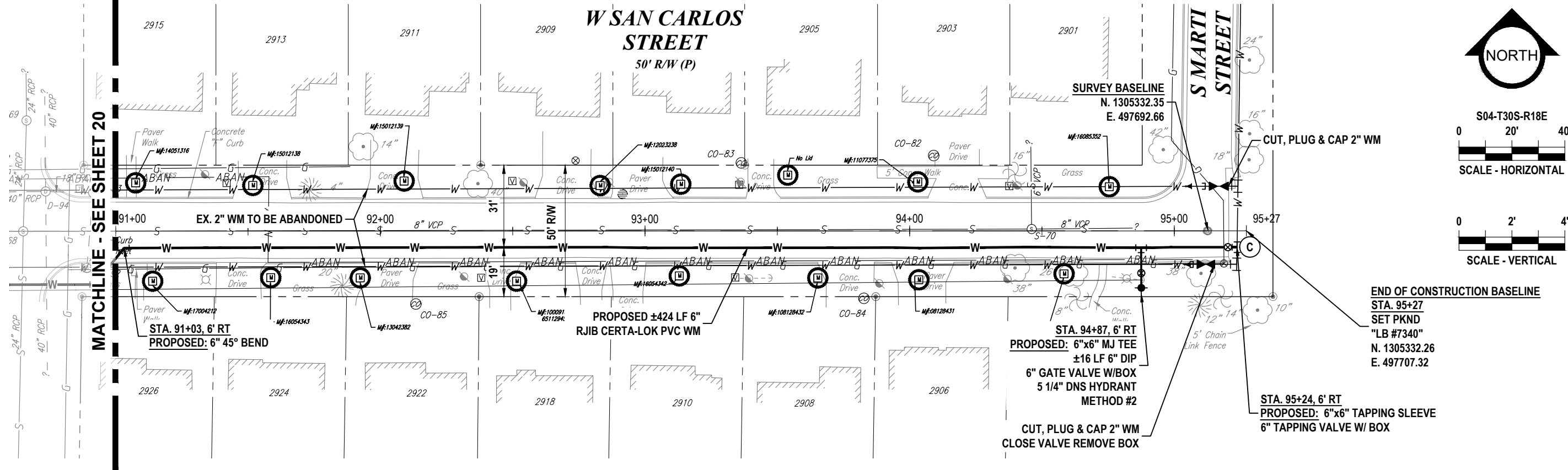
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PALMA CEIA PHASE III
 W SAN CARLOS STREET 4



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 20 OF 90

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 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
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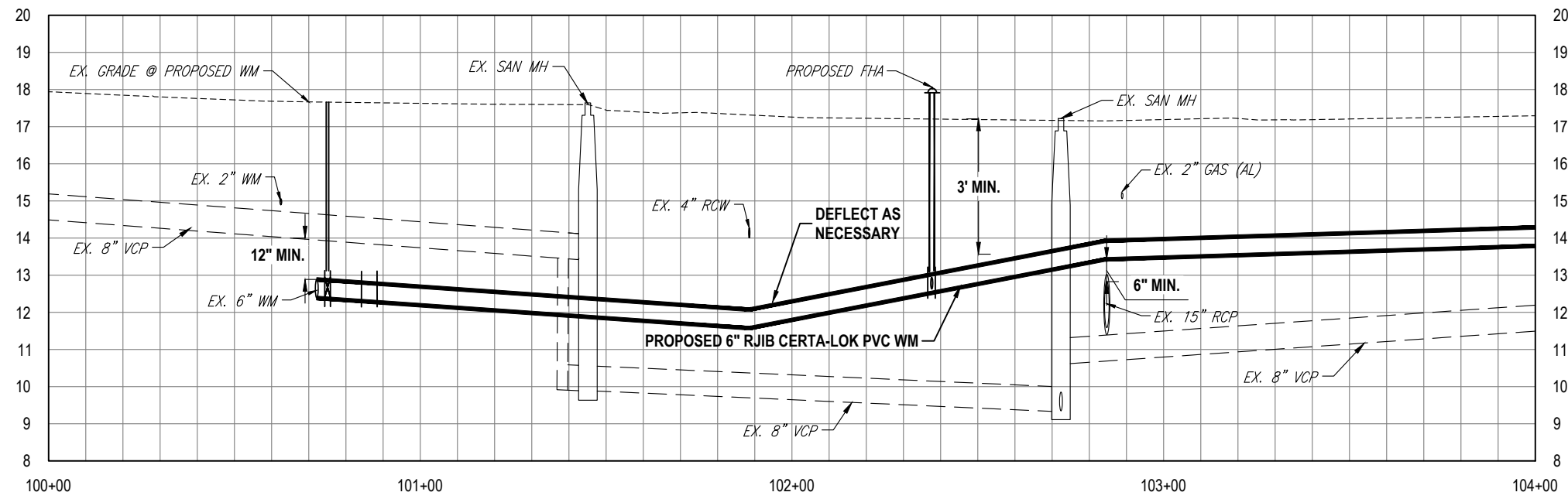
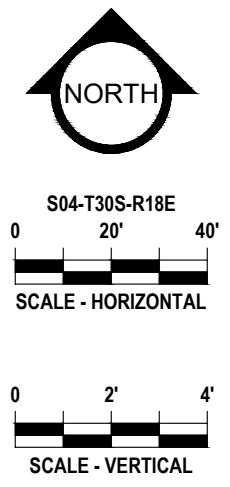
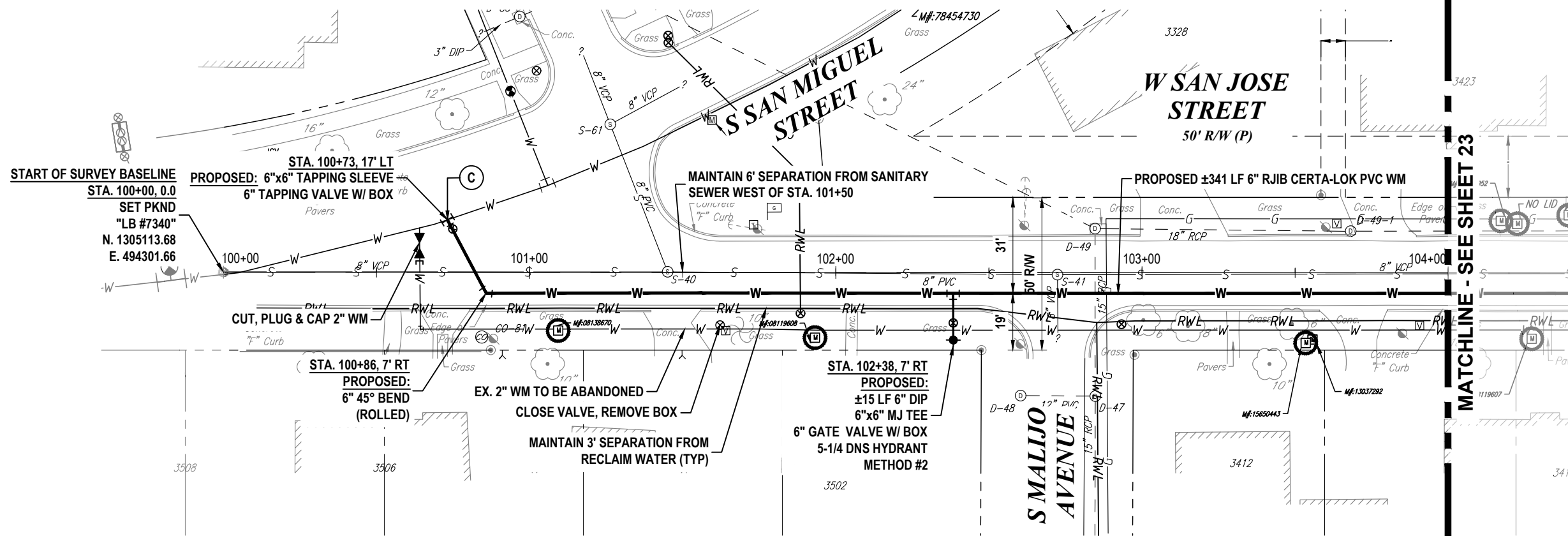
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PALMA CEIA PHASE III
 W SAN CARLOS STREET 5



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 21 OF 90

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RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

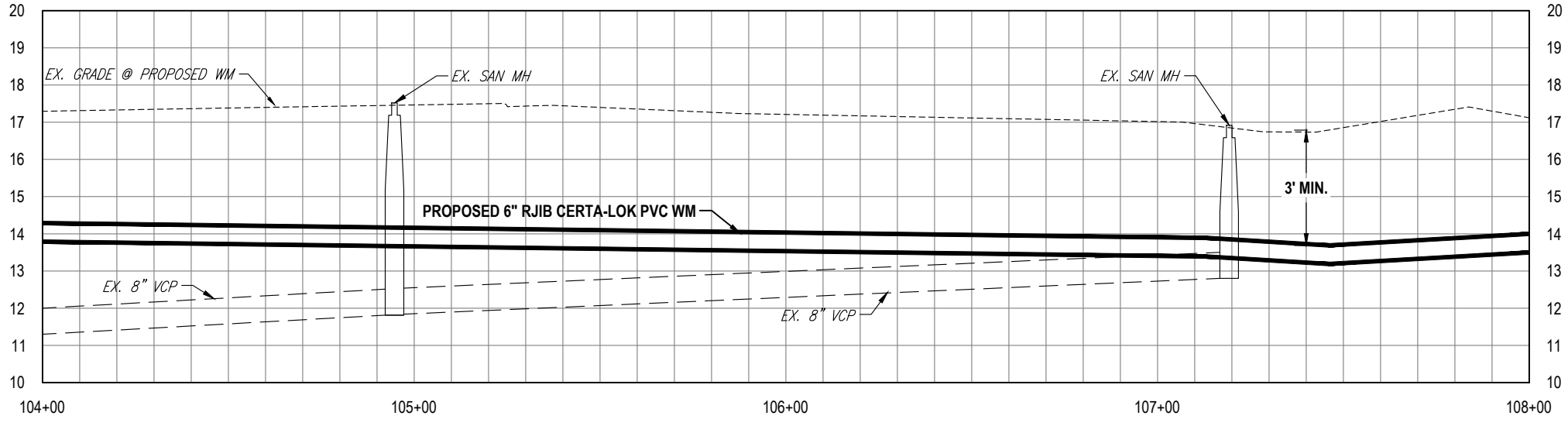
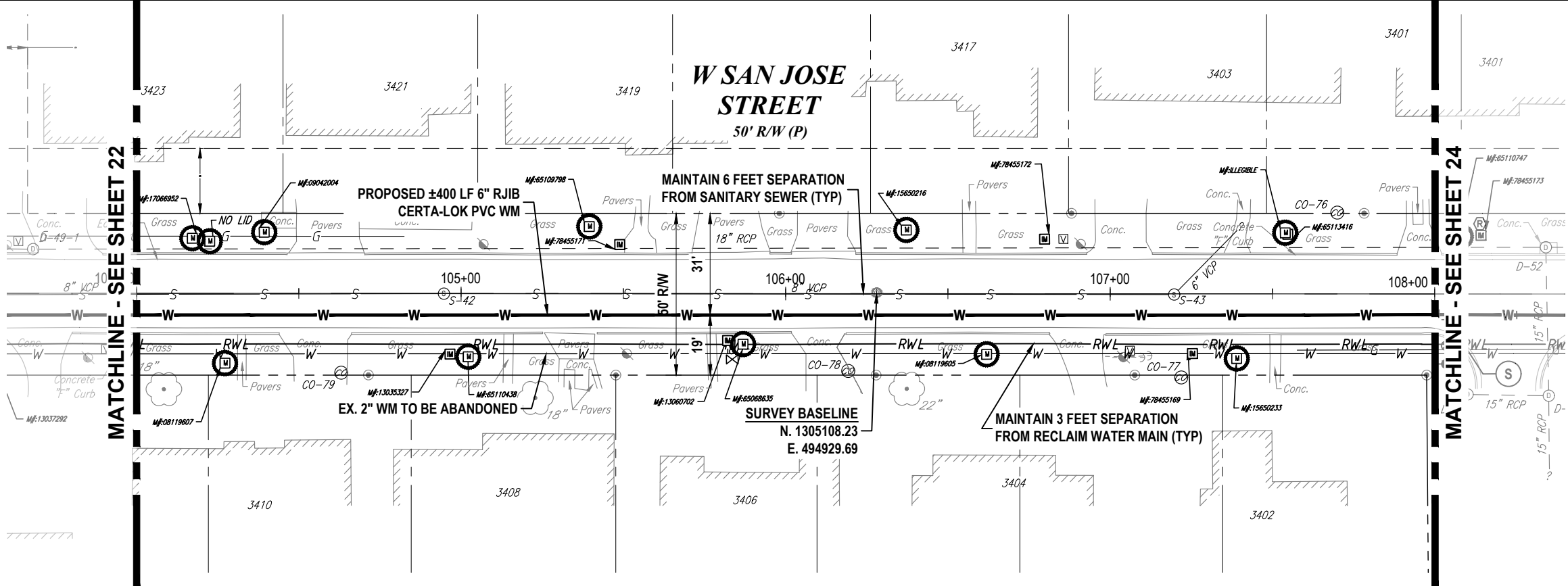
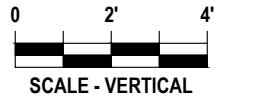
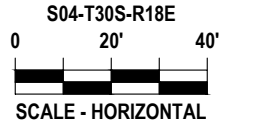
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PALMA CEIA PHASE III

W SAN JOSE STREET 1



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 22 OF 90



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
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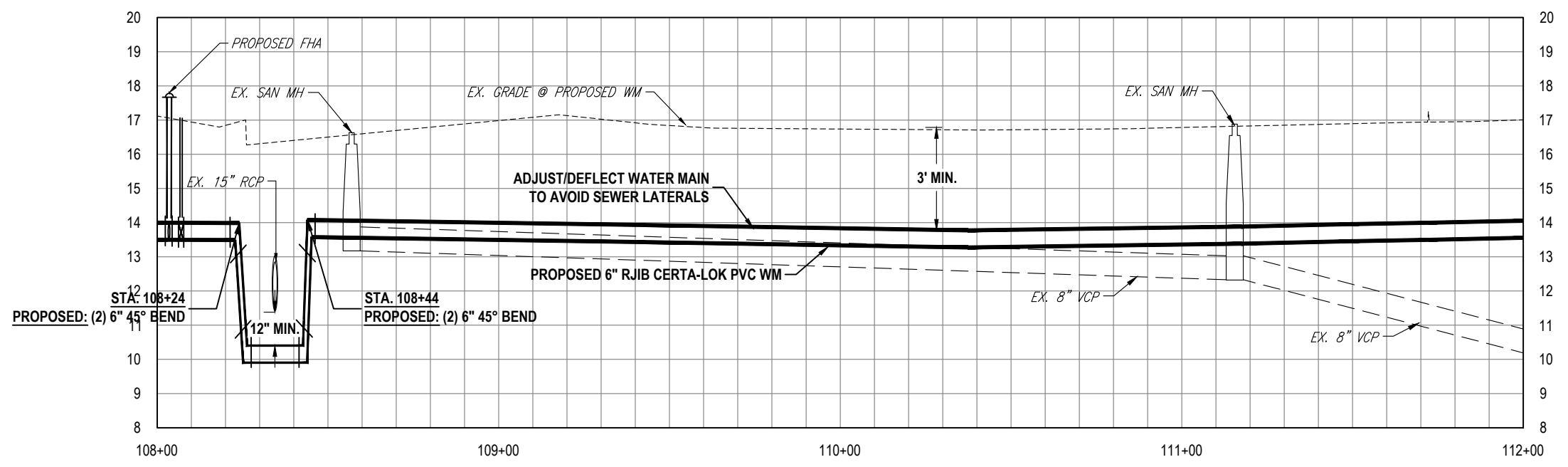
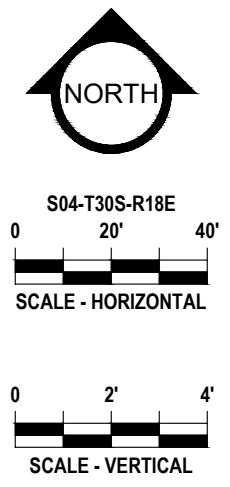
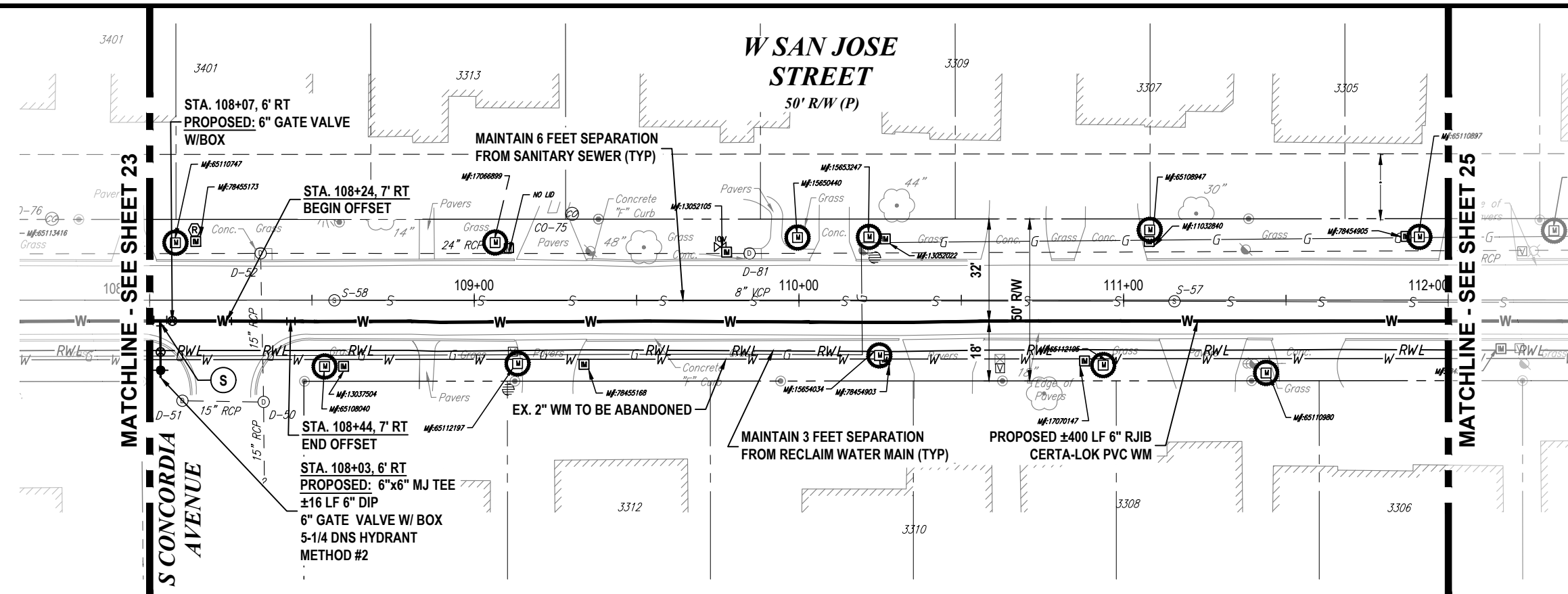
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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III
W SAN JOSE STREET 2



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 23 OF 90

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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

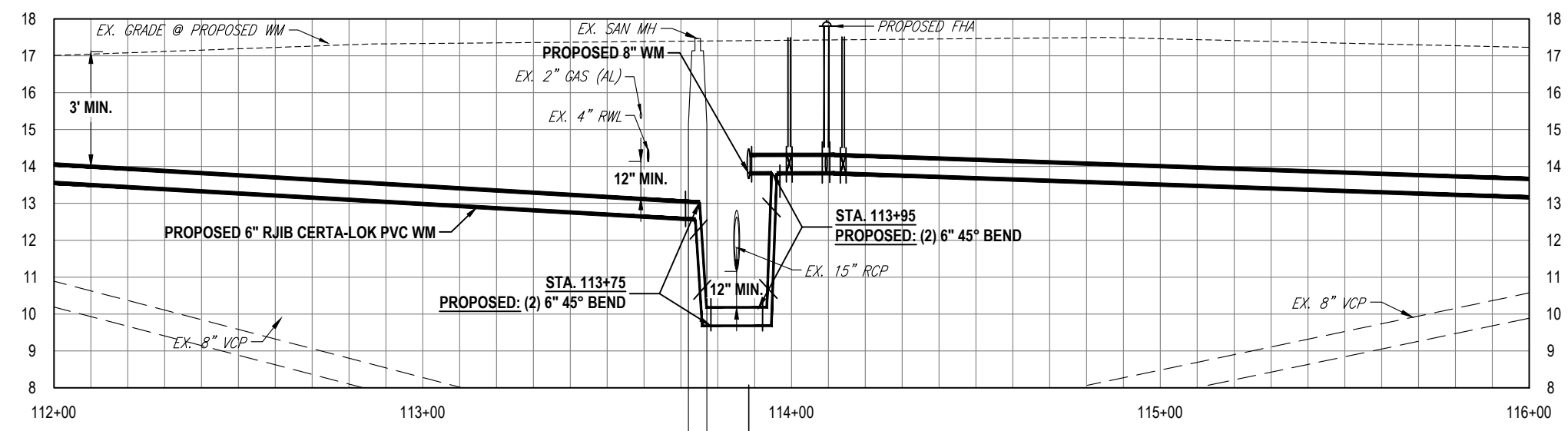
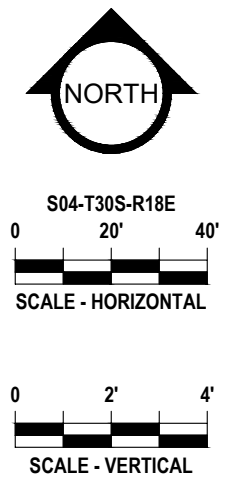
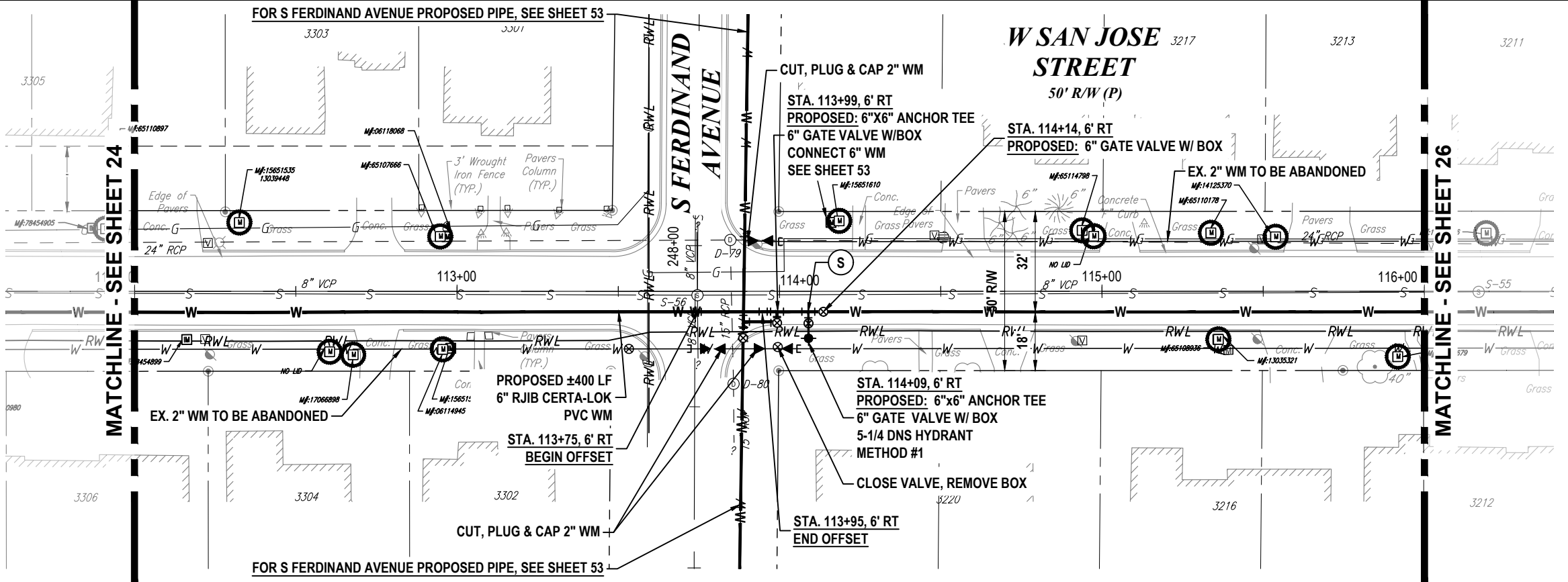
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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

W SAN JOSE STREET 3



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 24 OF 90



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306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

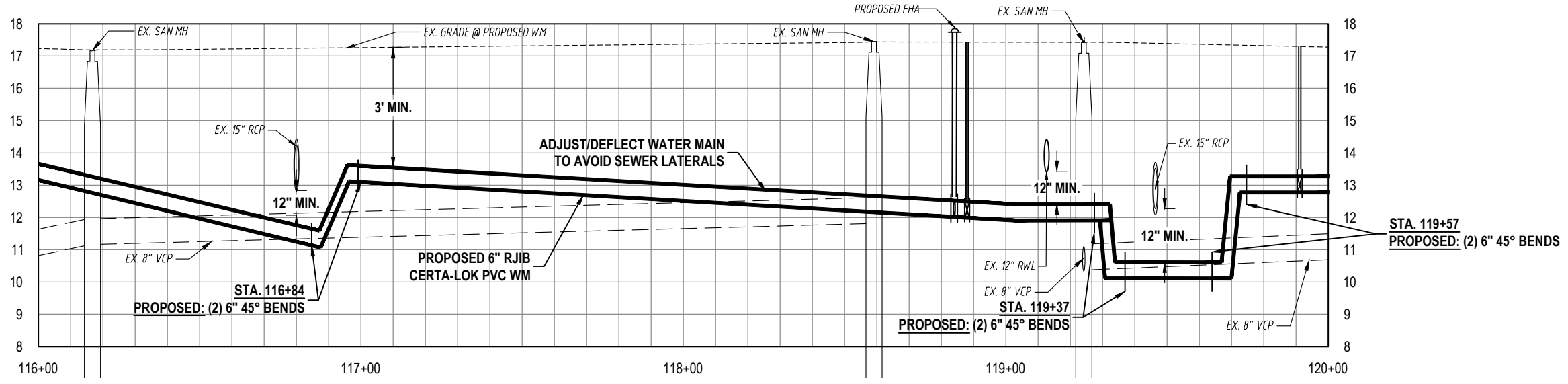
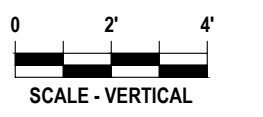
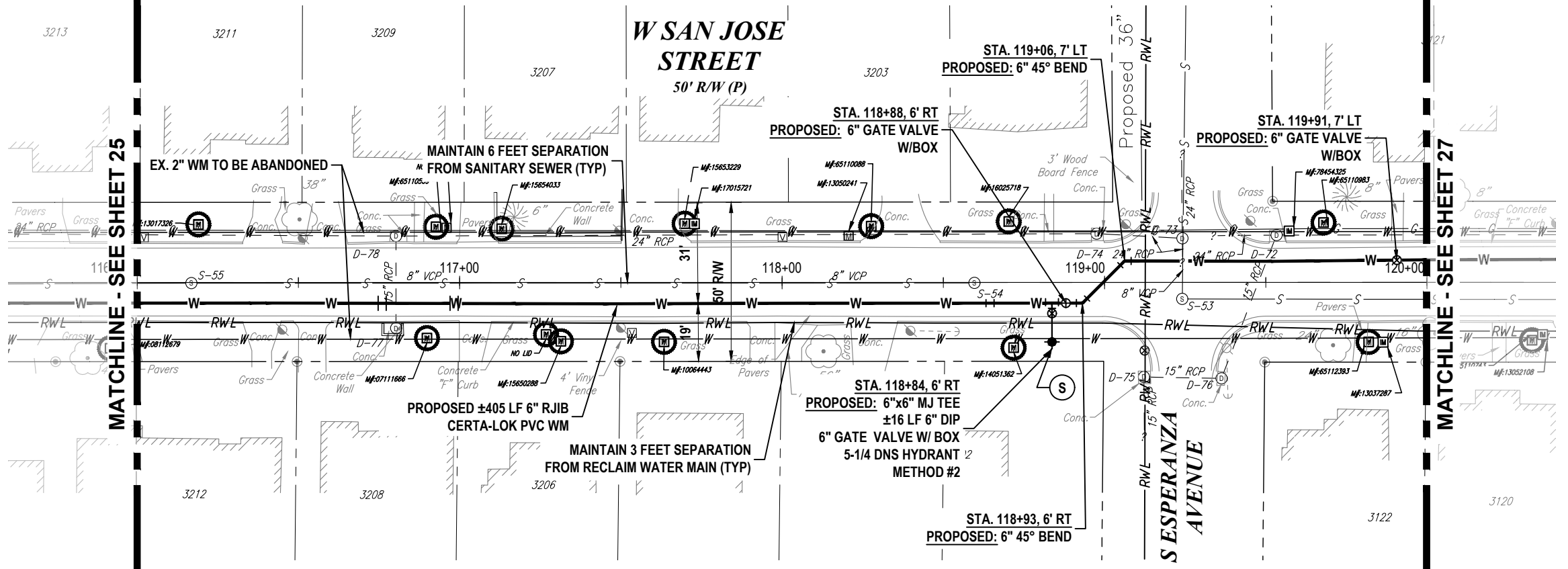
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PALMA CEIA PHASE III

W SAN JOSE STREET 4



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
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306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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DESIGNED CL
DRAWN SV
CHECKED RAJ
DATE 06/04/2019

PALMA CEIA PHASE III

W SAN JOSE STREET 5



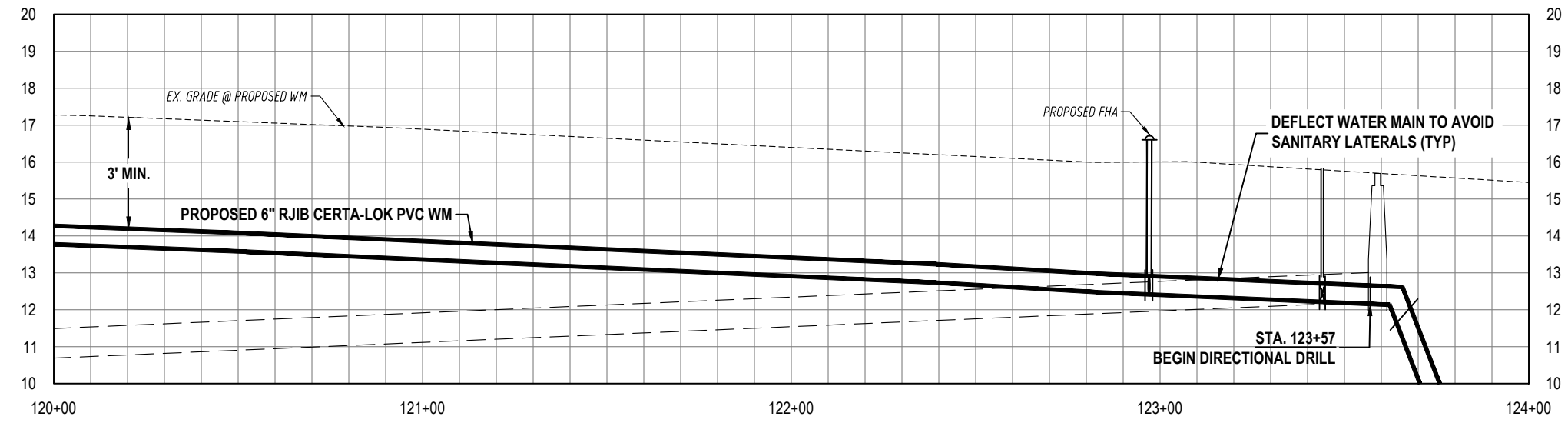
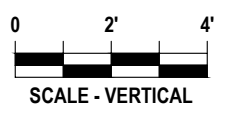
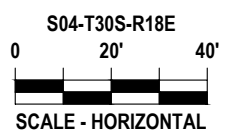
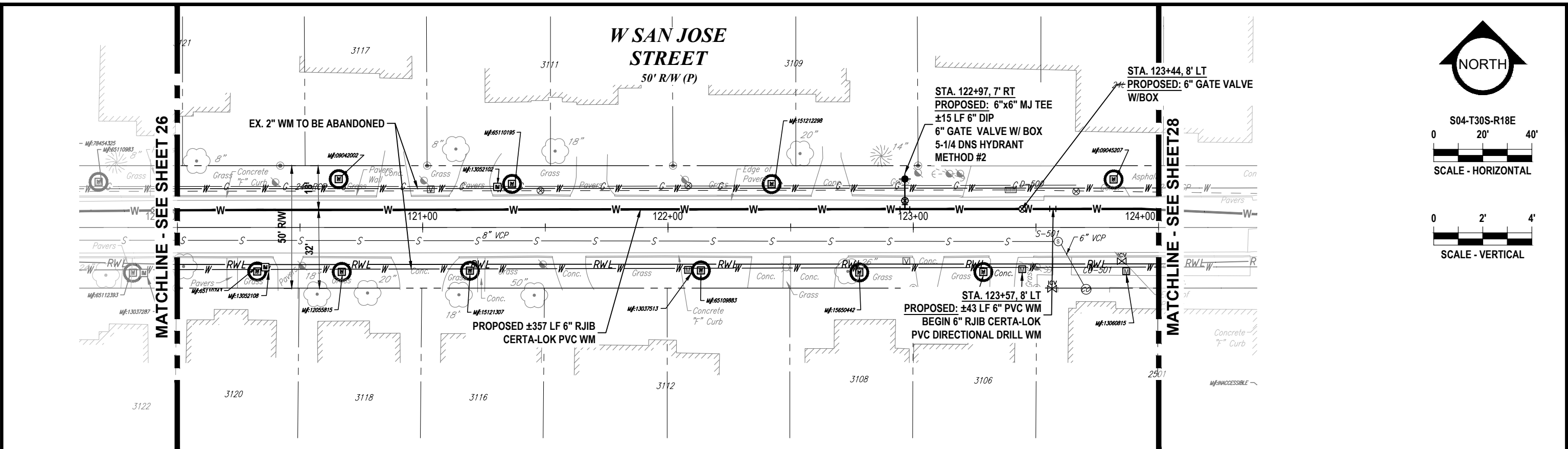
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WORK ORDER NO. WTR-18-0005

RECORD DRAWING NO.

ATLAS PAGE J-10/K10 SHEET 26 OF 90

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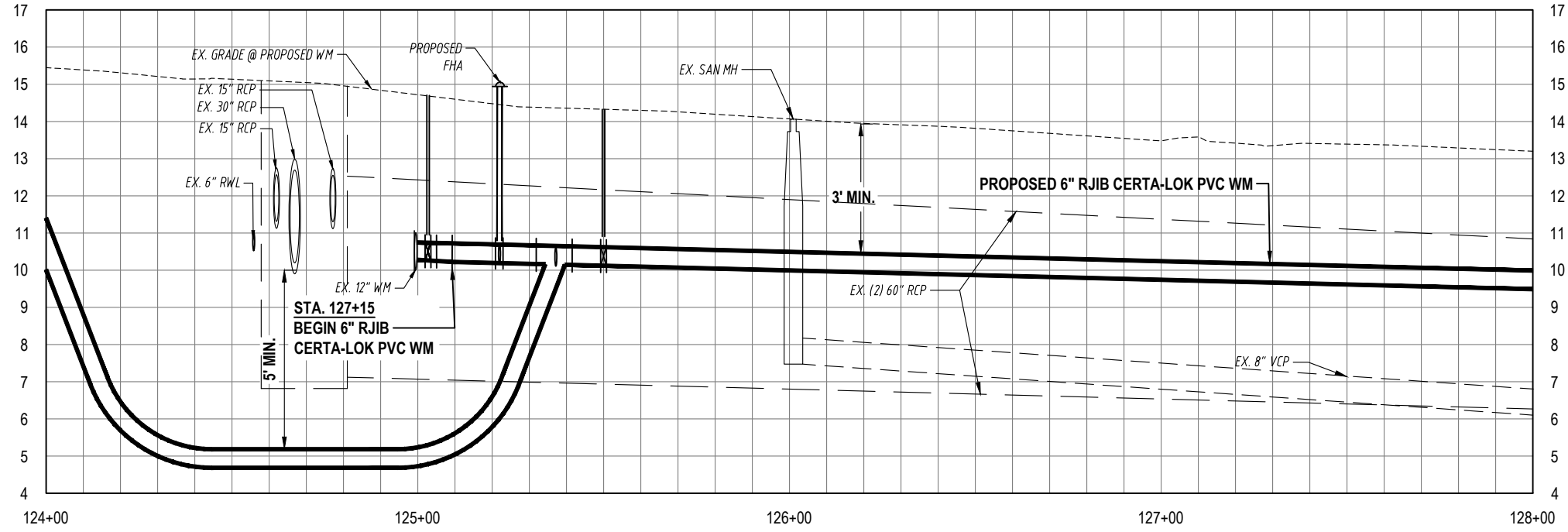
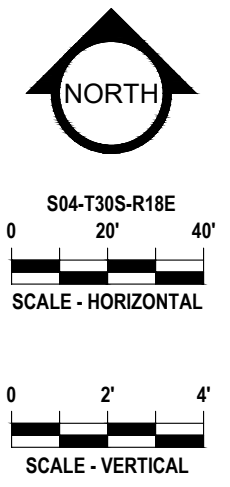
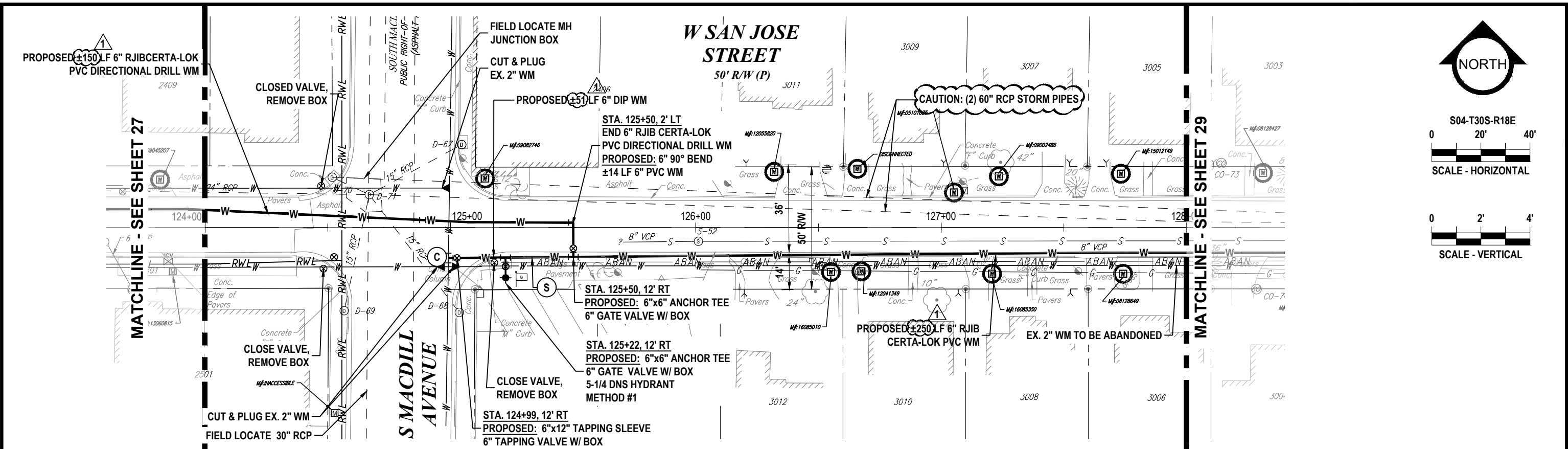
PALMA CEIA PHASE III

W SAN JOSE STREET 6



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 27 OF 90

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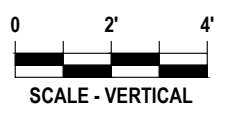
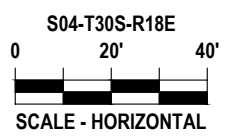
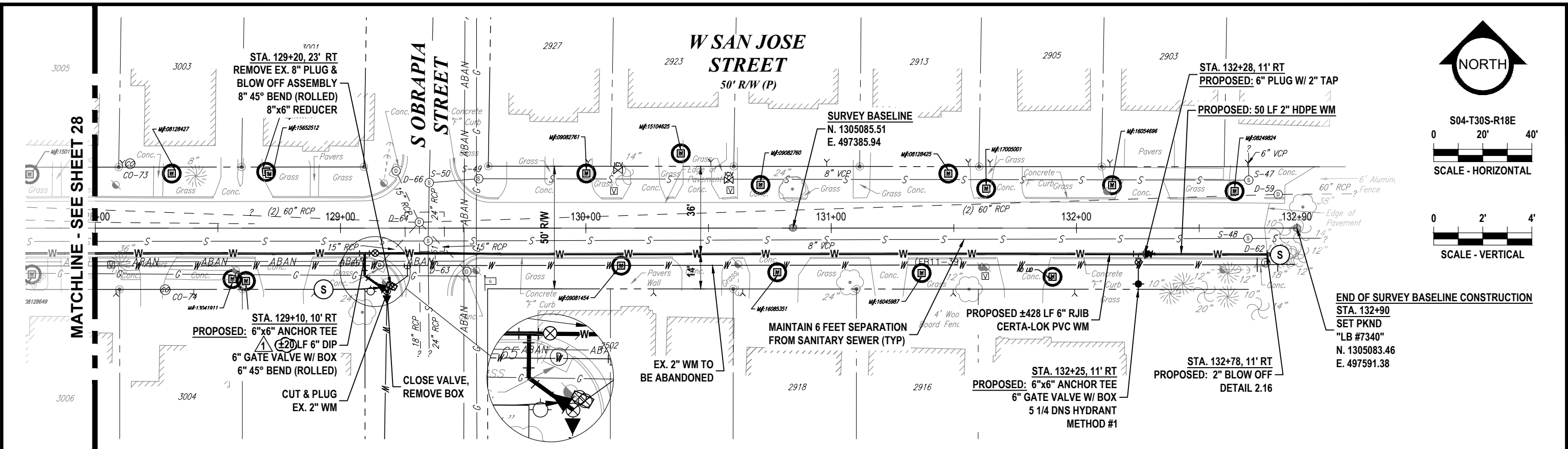
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DRAWN	SV
CHECKED	RAJ
DATE	06/04/2019

PALMA CEIA PHASE III
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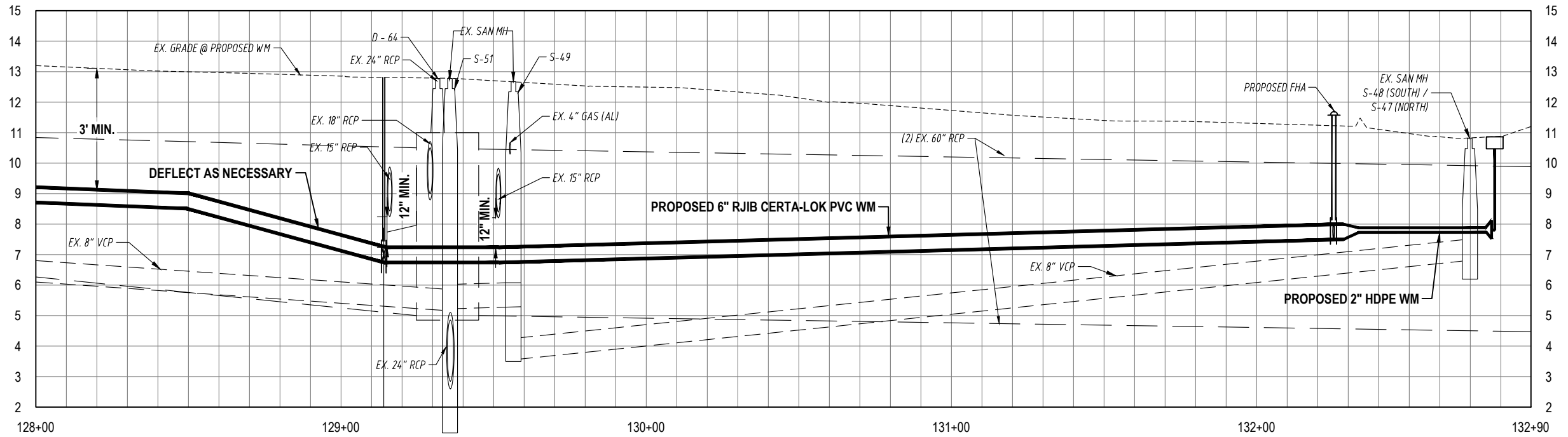


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WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 28 OF 90

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END OF SURVEY BASELINE CONSTRUCTION
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 SET PKND
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 E. 497591.38



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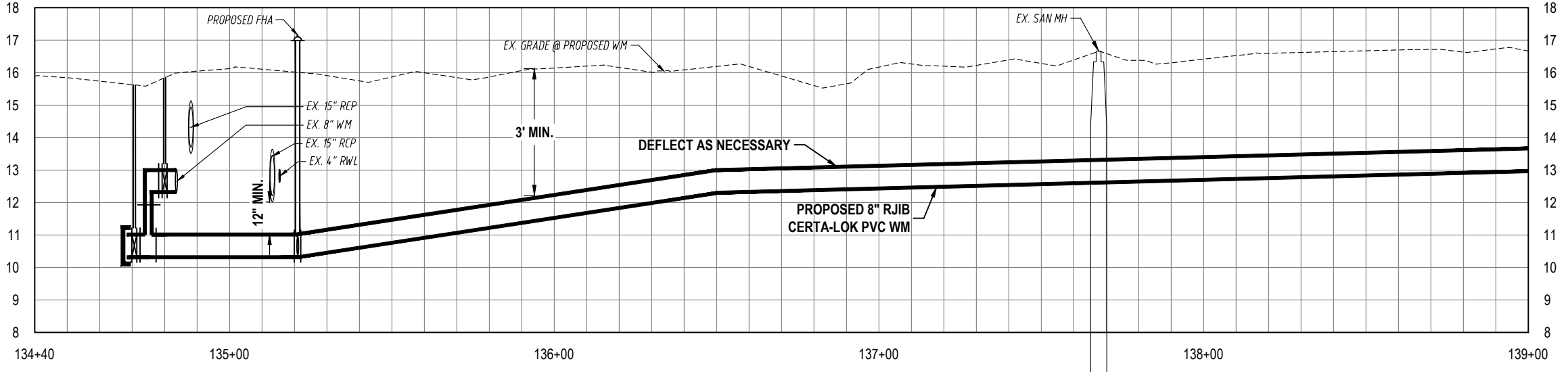
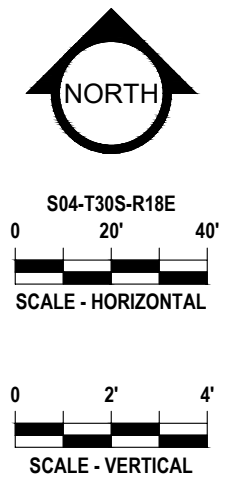
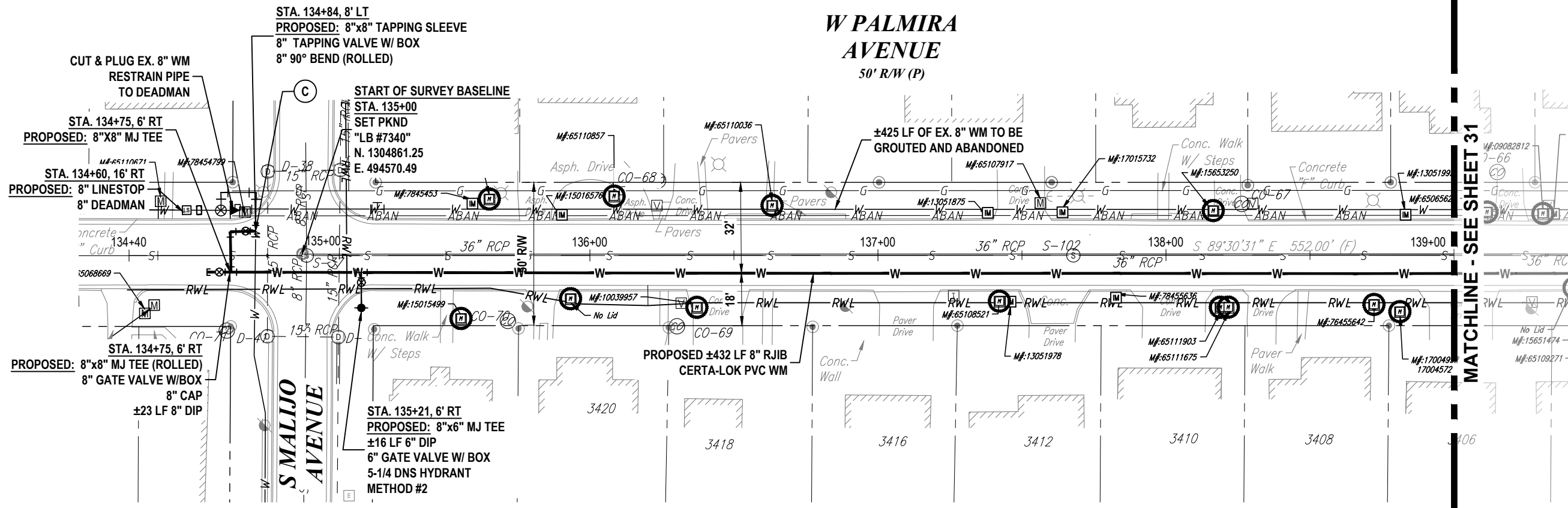
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PALMA CEIA PHASE III
 W SAN JOSE STREET 8



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
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W PALMIRA AVENUE
50' R/W (P)



K:\Projects\WTR\18\WTR-18-0005\Palma Ceia Phase III\Water Main Replacement\02-Design\Drawings\01-Dwg\02-Sheets\WTR-18-0005-PLM\WTR04.dwg, Feb 04, 2021 - 7:17am

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PALMA CEIA PHASE III

W PALMIRA AVENUE 1

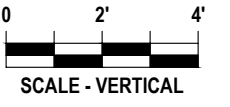
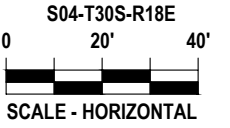


100% PLANS

WORK ORDER NO. WTR-18-0005

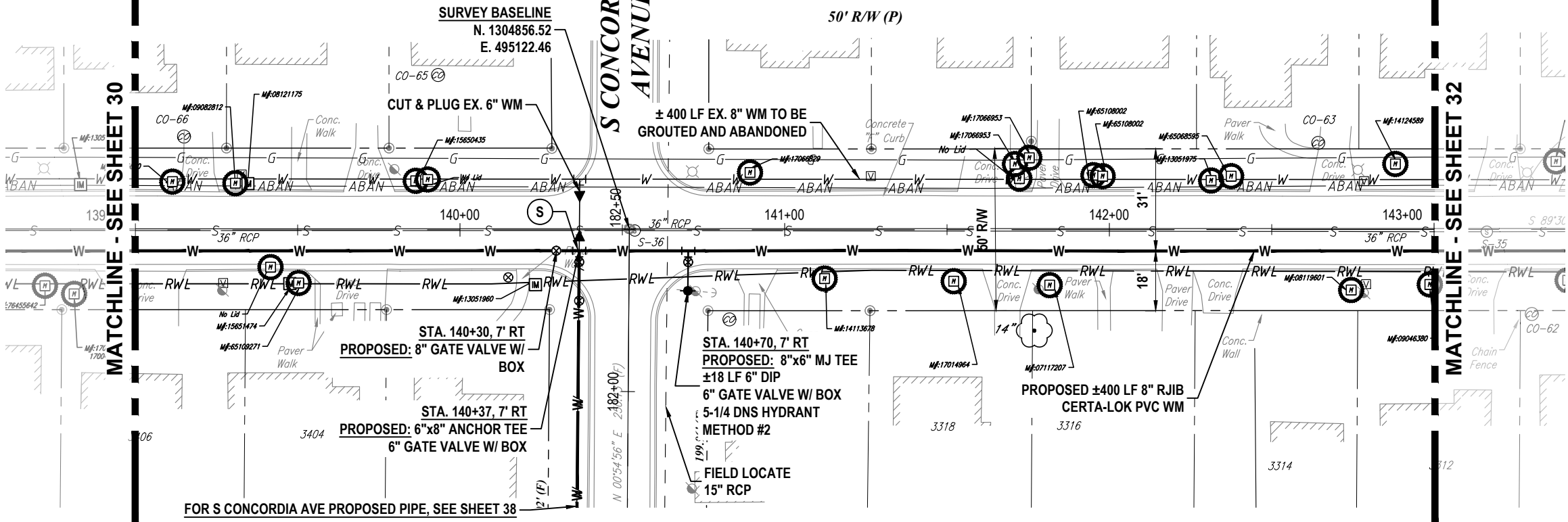
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ATLAS PAGE J-10/K10 SHEET 30 OF 90



W PALMIRA AVENUE
50' R/W (P)

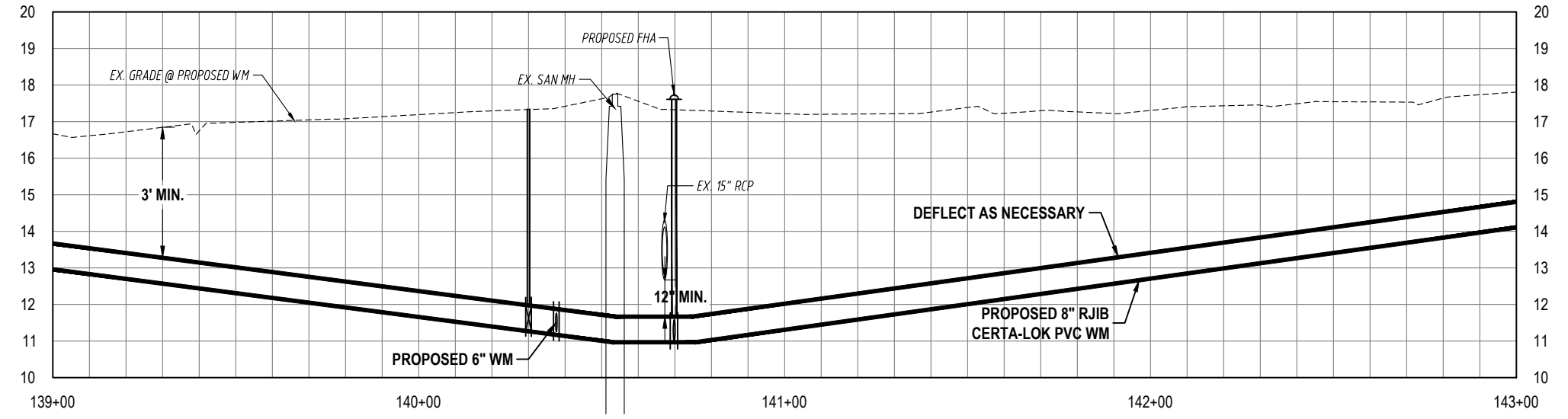
S CONCORDIA AVENUE



MATCHLINE - SEE SHEET 30

MATCHLINE - SEE SHEET 32

FOR S CONCORDIA AVE PROPOSED PIPE, SEE SHEET 38



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306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

W PALMIRA AVENUE 2

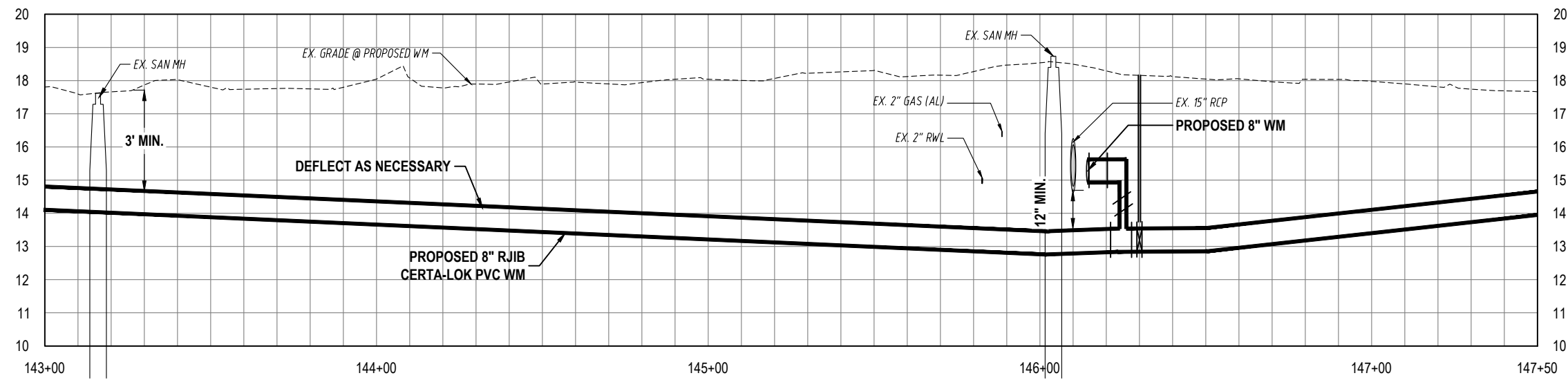
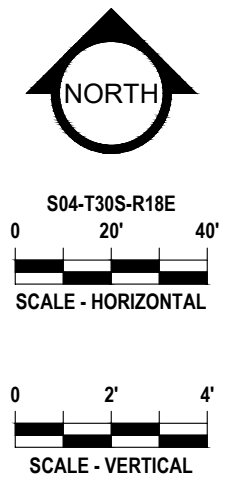
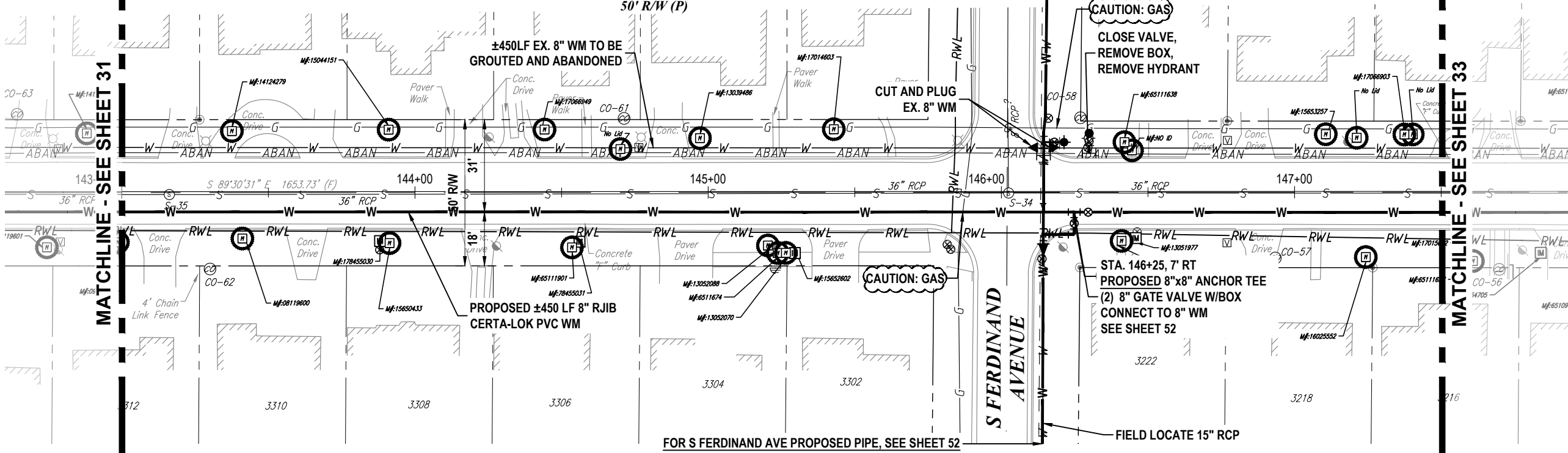


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WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 31 OF 90

W PALMIRA AVENUE

50' R/W (P)

FOR S FERDINAND AVE PROPOSED
PIPE, SEE SHEET 52



K:\Projects\WTR\18\WTR-18-0005\Palma Ceia Phase III\Water Main Replacement\02-Design\Drawings\01-Dwg\02-Sheets\WTR-18-0005-PLN\WTR-18-0005-PLN\WTR-18-0005-PLN.dwg, Feb 04, 2021 - 7:17am

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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
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PALMA CEIA PHASE III

W PALMIRA AVENUE 3

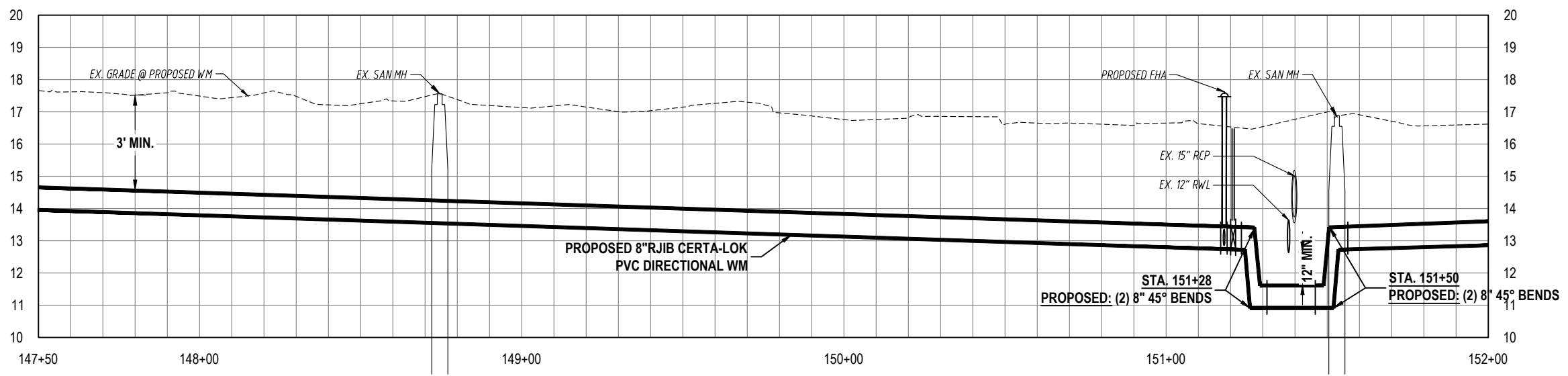
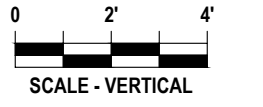
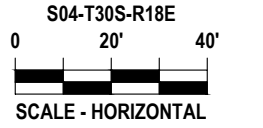
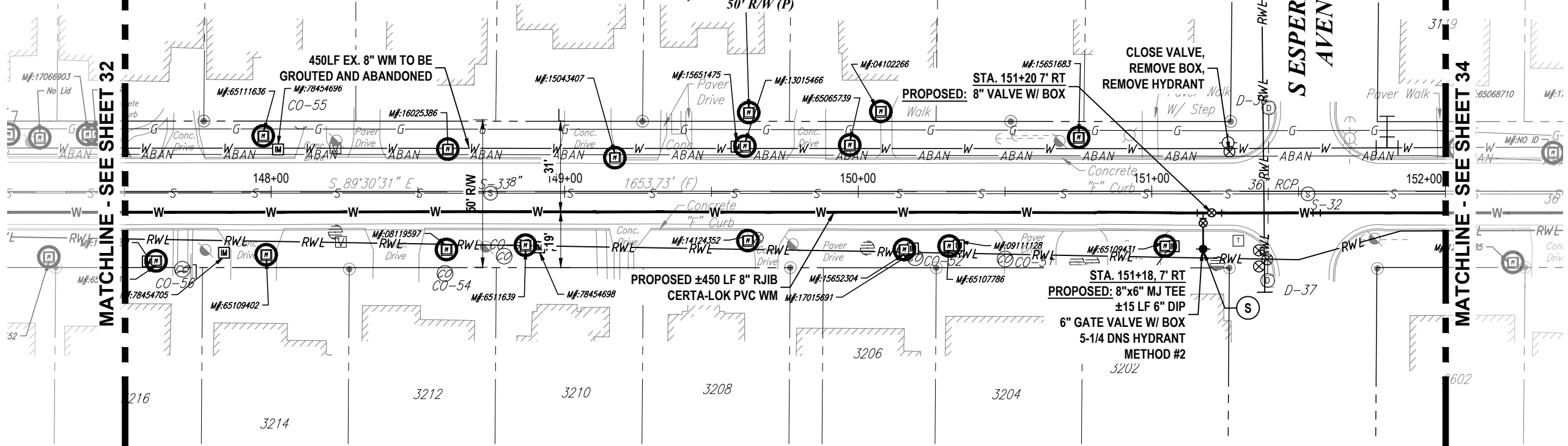


100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 32 OF 90

W PALMIRA AVENUE

50' R/W (P)

S ESPERANZA AVENUE



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

REV NO.	DATE	DESCRIPTION	BY	DESIGNED	CL
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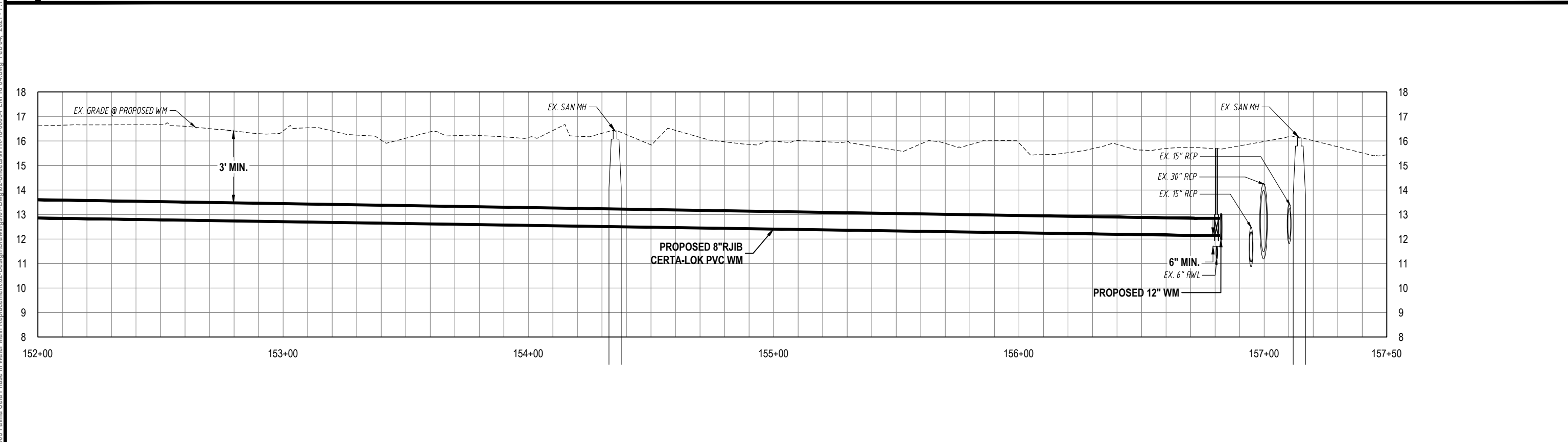
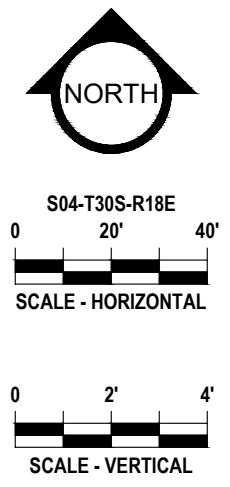
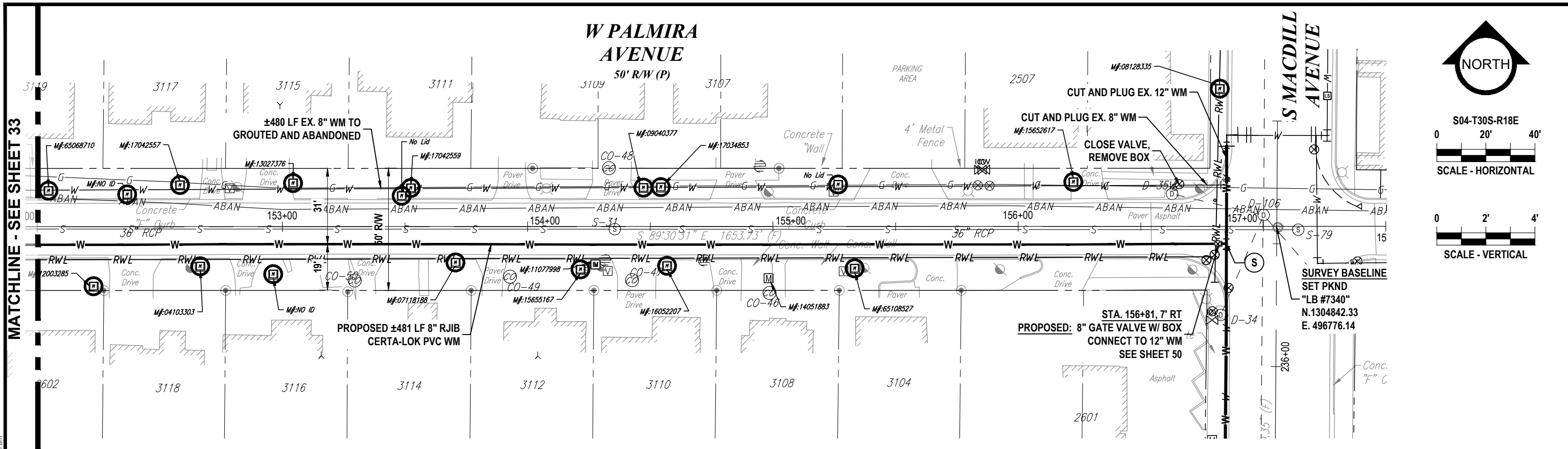
PALMA CEIA PHASE III

W PALMIRA AVENUE 4

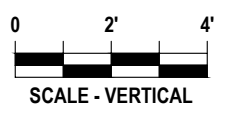
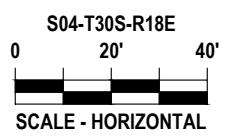
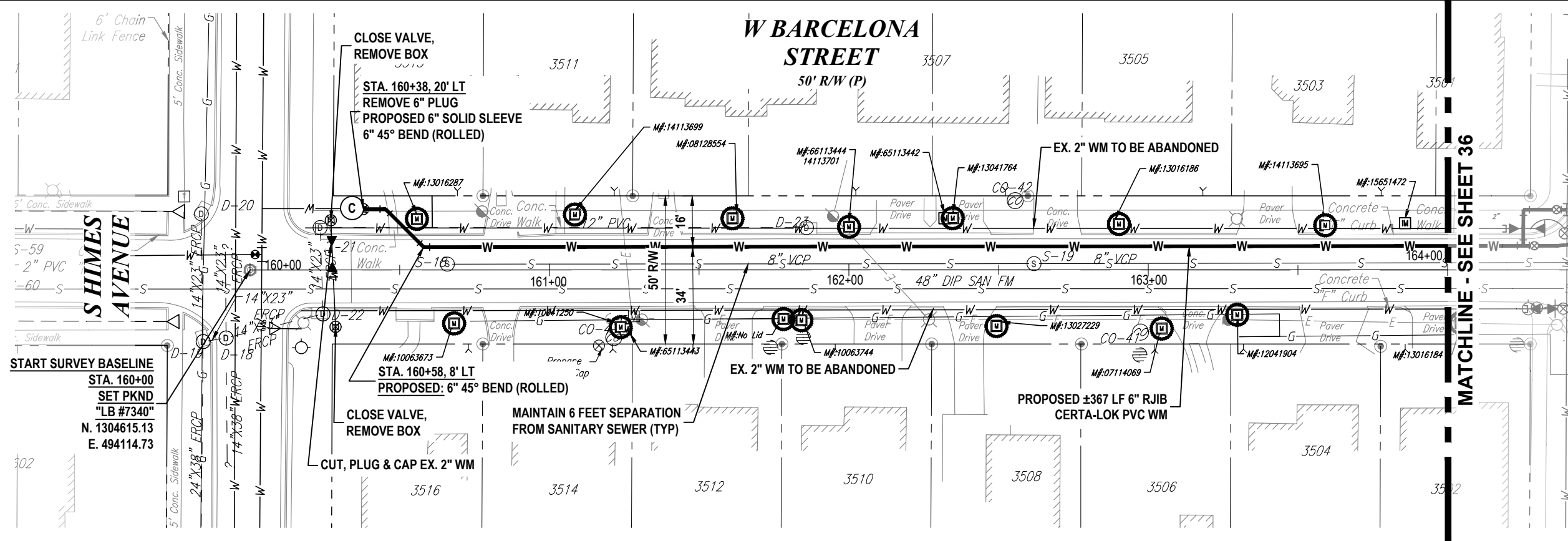


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ATLAS PAGE J-10/K10	SHEET 33 OF 90

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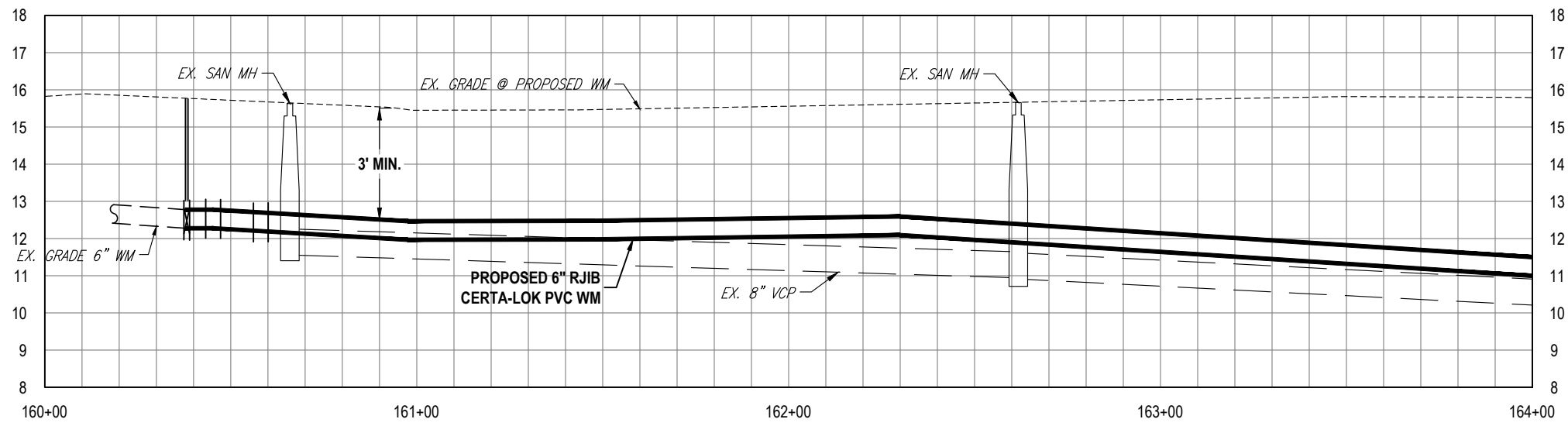


RORY A. JONES, P.E. CITY OF TAMPA WATER DEPT. 306 E. JACKSON ST., 5E TAMPA, FLA. 33602 P.E. #79453	REV NO.	DATE	DESCRIPTION	BY	DESIGNED	CL	PALMA CEIA PHASE III W PALMIRA AVENUE 5		100% PLANS			
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	CHECKED	RAJ			RECORD DRAWING NO.			
	DATE	06/04/2019			ATLAS PAGE	J-10/K10	SHEET	34 OF 90
								



MATCHLINE - SEE SHEET 36

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 SET PKND
 "LB #7340"
 N. 1304615.13
 E. 494114.73



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RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

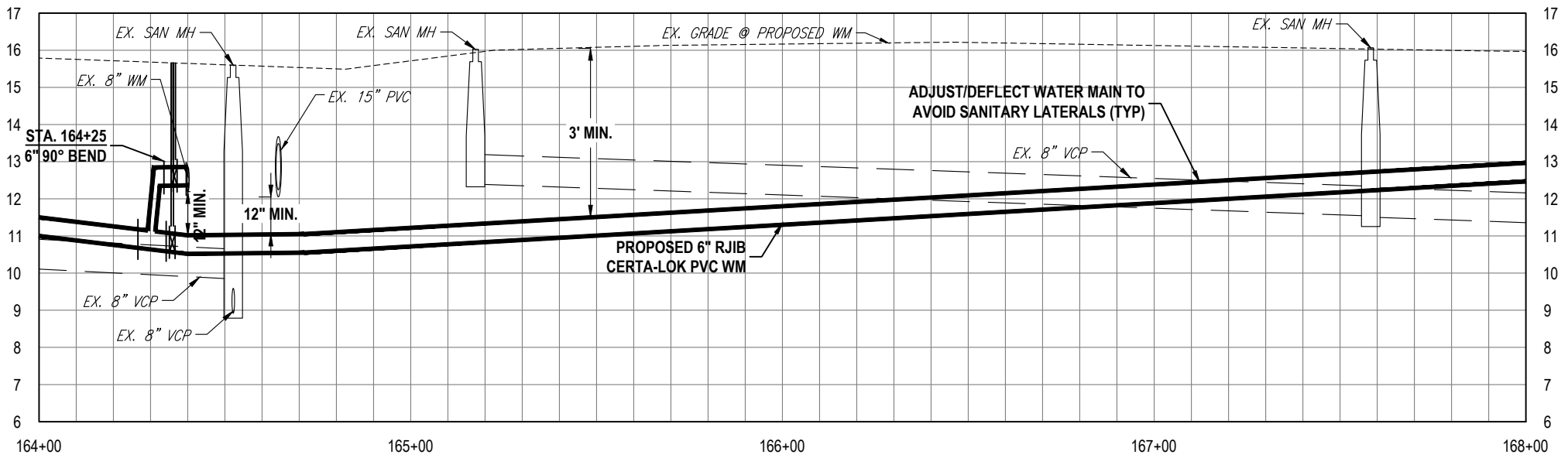
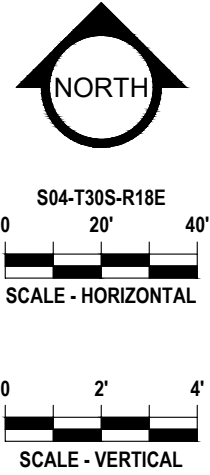
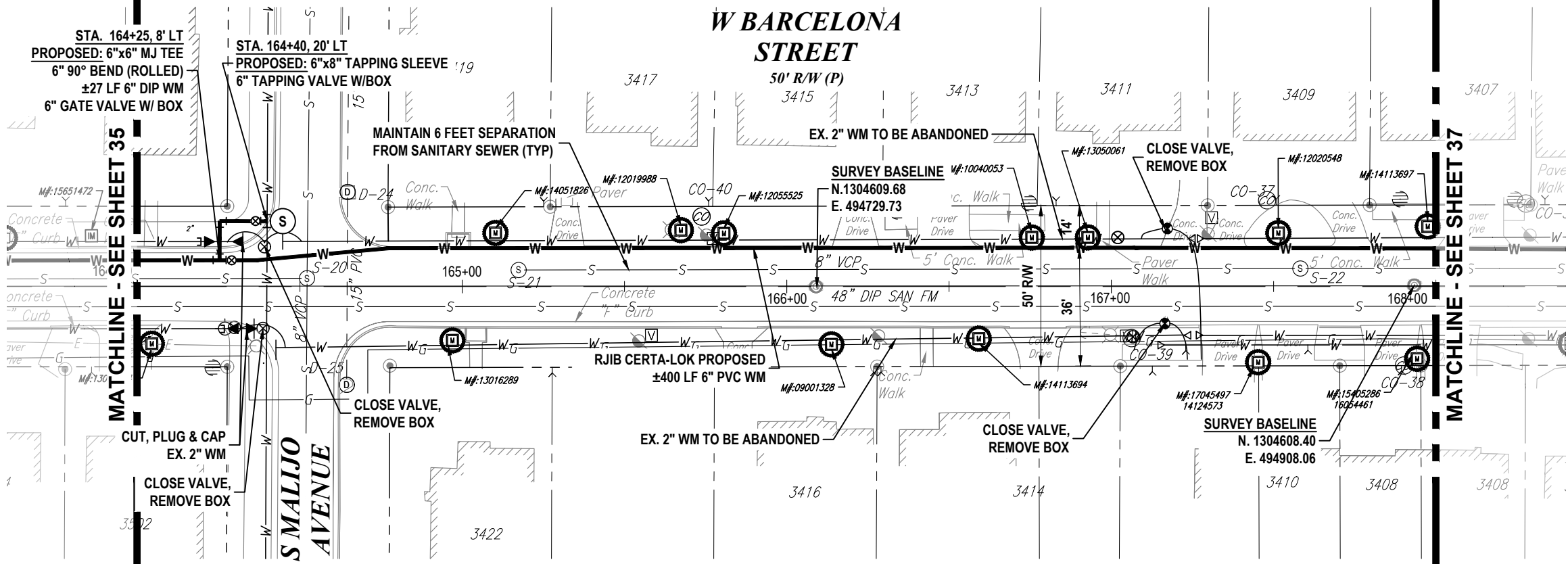
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PALMA CEIA PHASE III
 W BARCELONA STREET 1



100% PLANS	
WORK ORDER NO.	WTR-18-0005
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306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

REV NO.	DATE	DESCRIPTION	BY	DESIGNED	CL
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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

W BARCELONA STREET 2

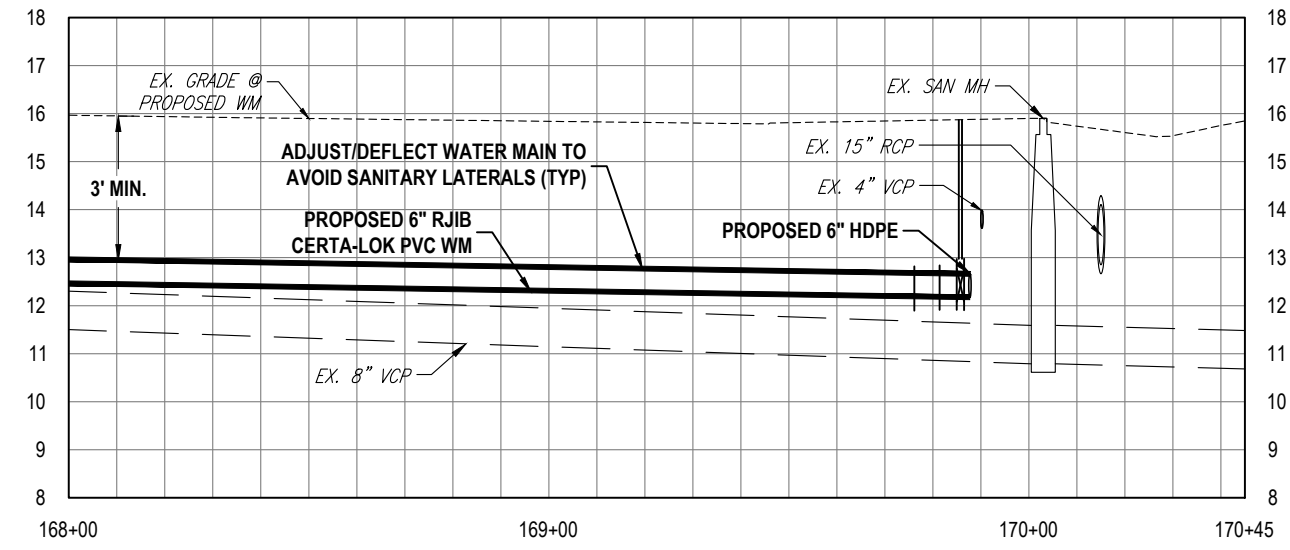
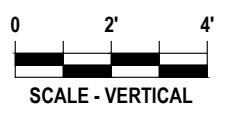
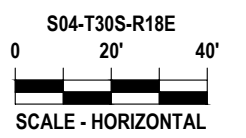
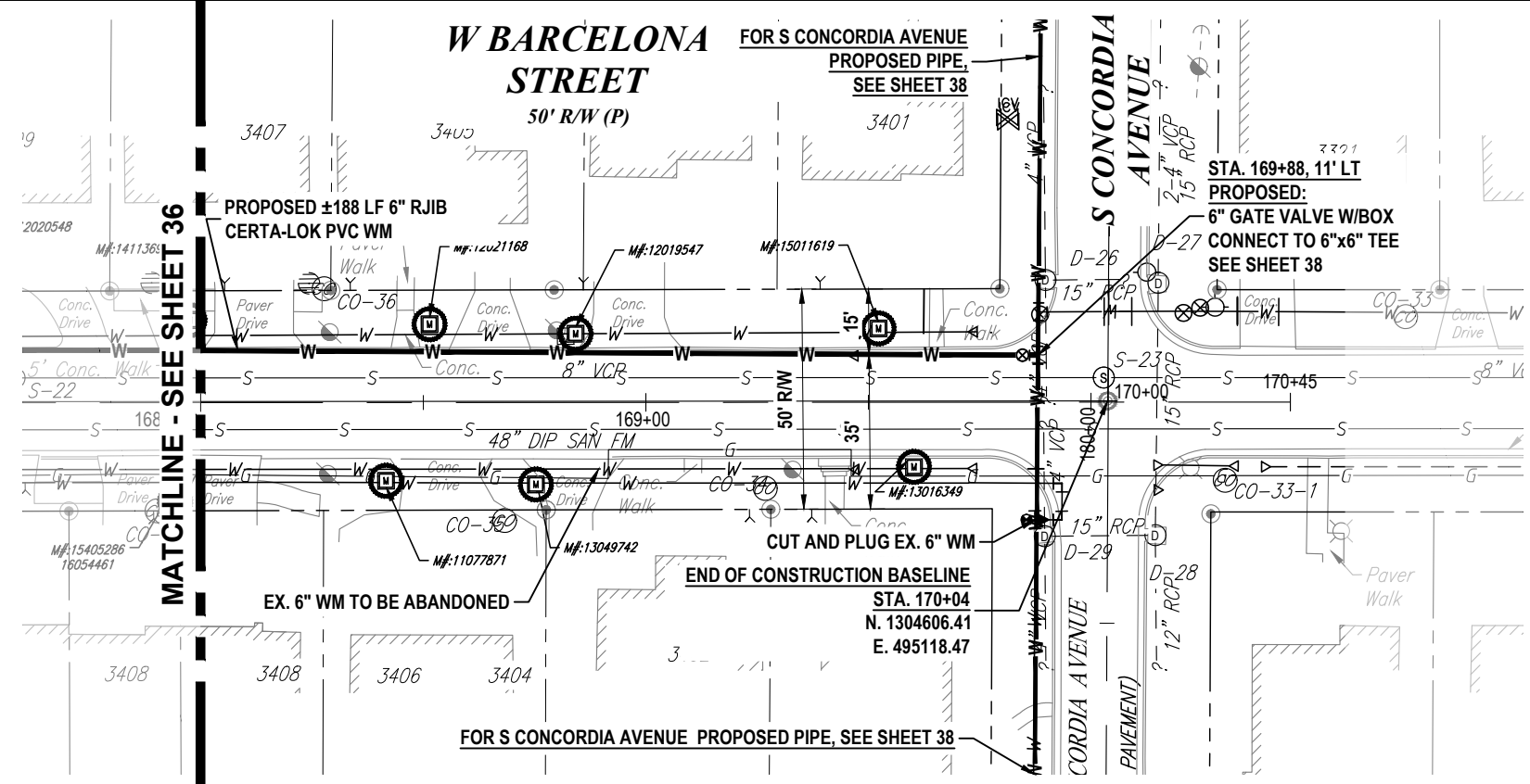


100% PLANS

WORK ORDER NO. WTR-18-0005

RECORD DRAWING NO.

ATLAS PAGE J-10/K10 SHEET 36 OF 90



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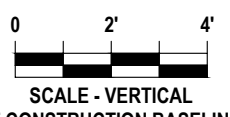
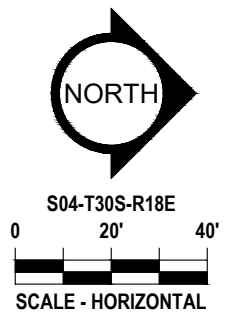
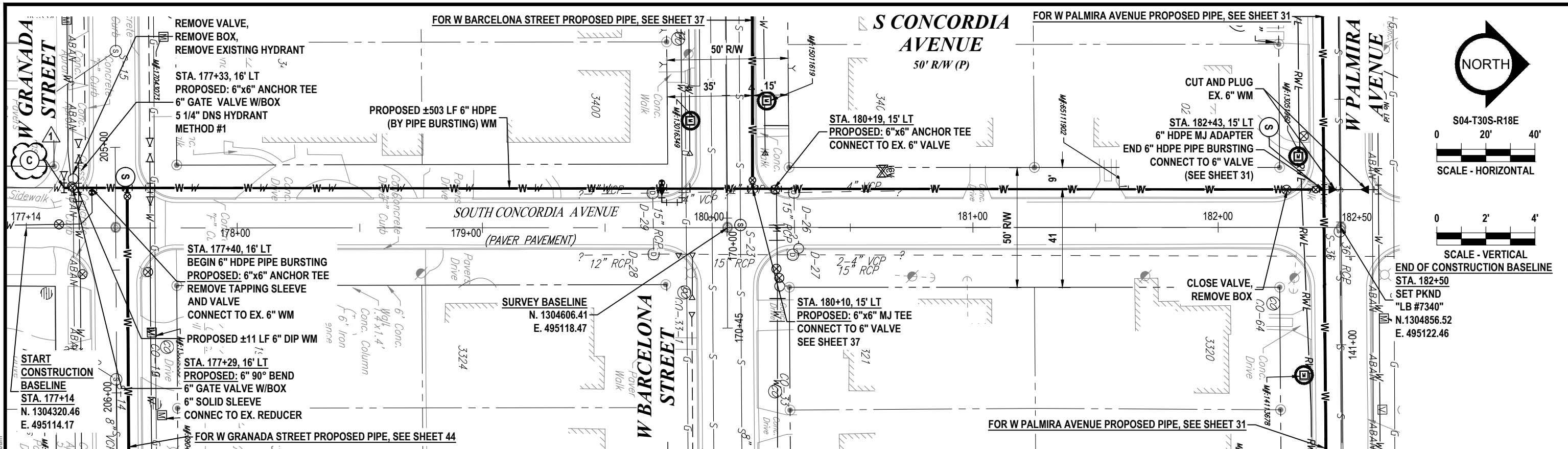
RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

REV. NO.	DATE	DESCRIPTION	BY	DESIGNED	CL
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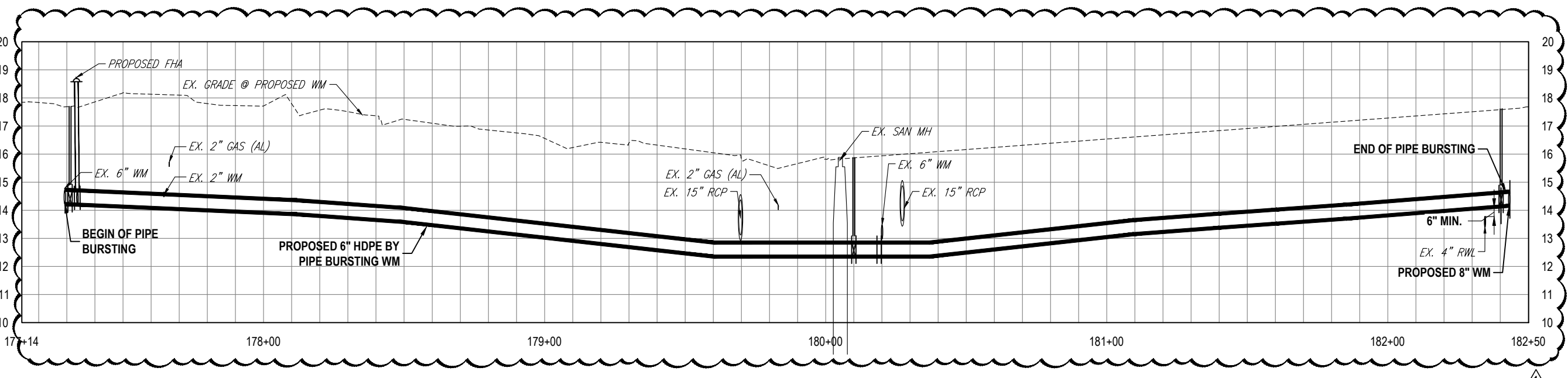
PALMA CEIA PHASE III
W BARCELONA STREET 3



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 37 OF 90



END OF CONSTRUCTION BASELINE
 STA. 182+50
 SET PKND
 "LB #7340"
 N.1304856.52
 E. 495122.46



K:\Projects\WTR\18\WTR-18-0005\Palma Ceia Phase III\Water Main Replacement\02-Design\Drawings\01-Dwg\02-Sheets\WTR-18-0005-PLM\PRF05.dwg, Feb 04, 2021 - 7:18am

RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

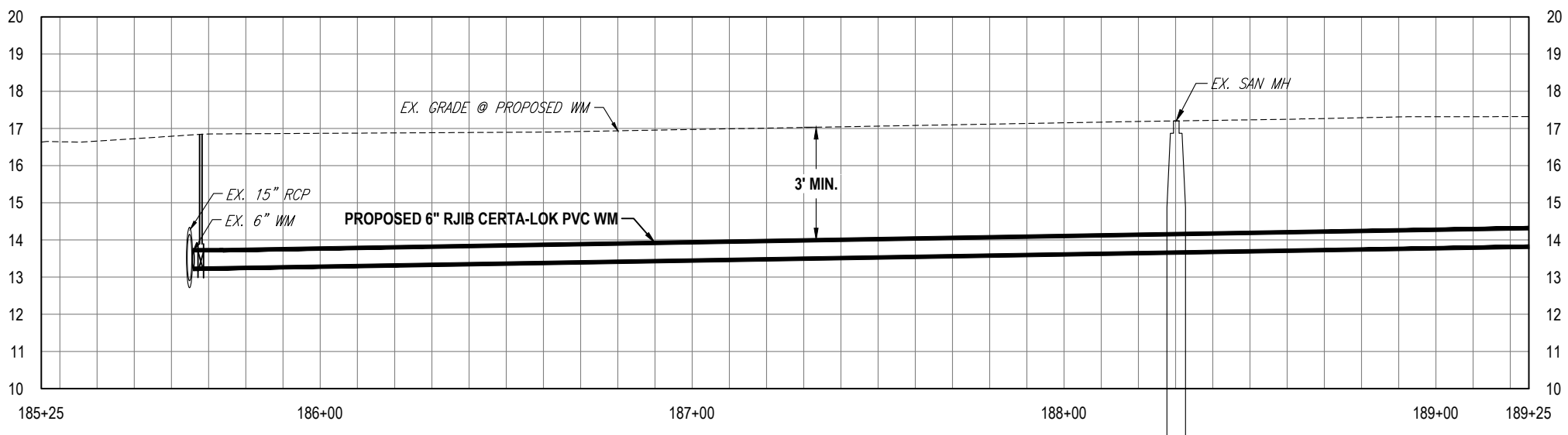
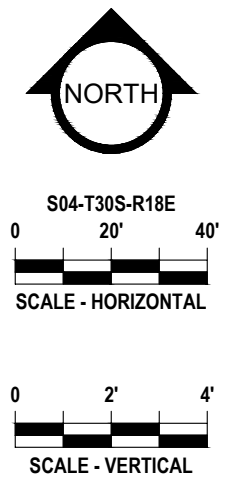
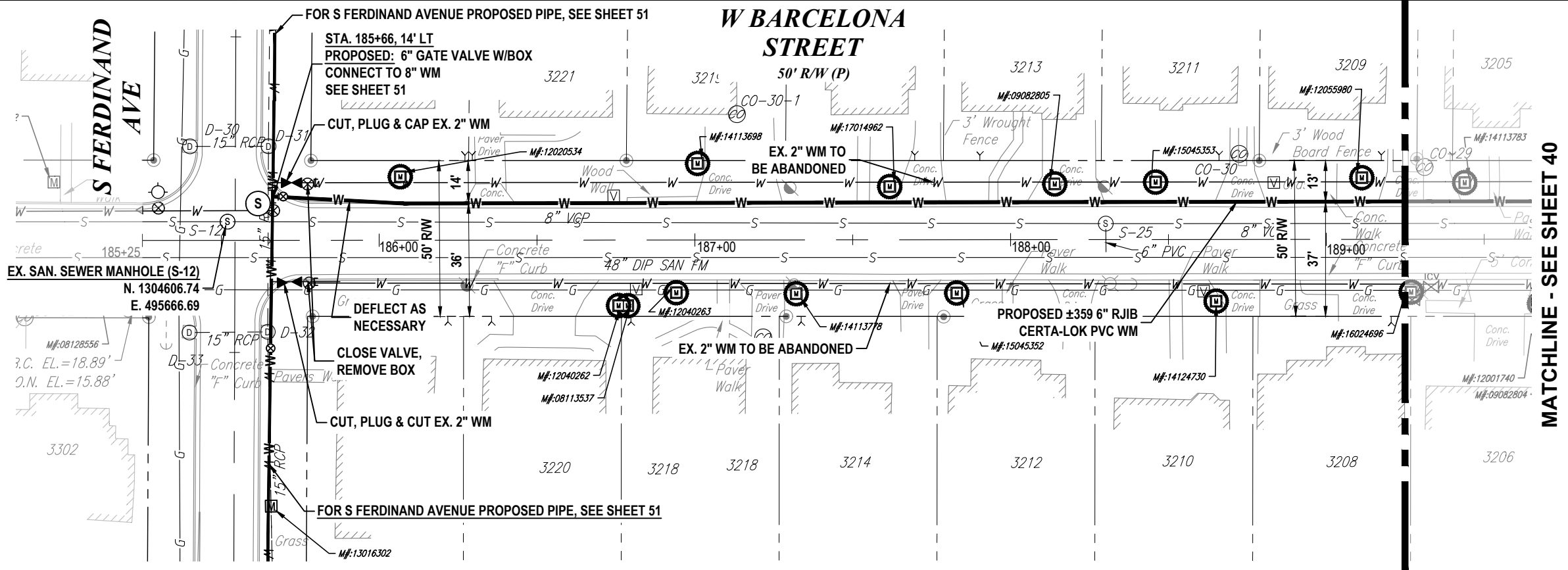
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PALMA CEIA PHASE III
 S CONCORDIA AVENUE



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WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

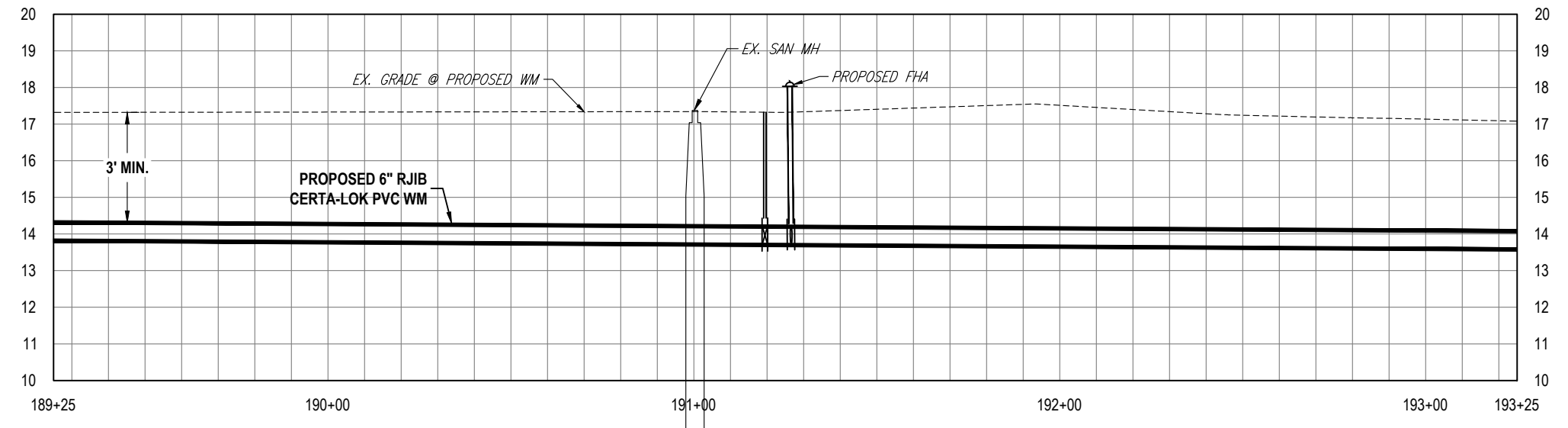
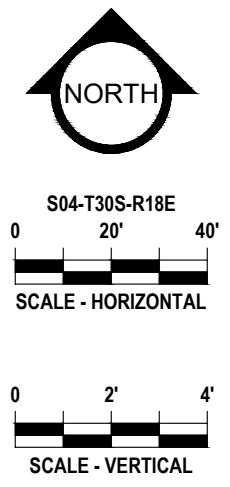
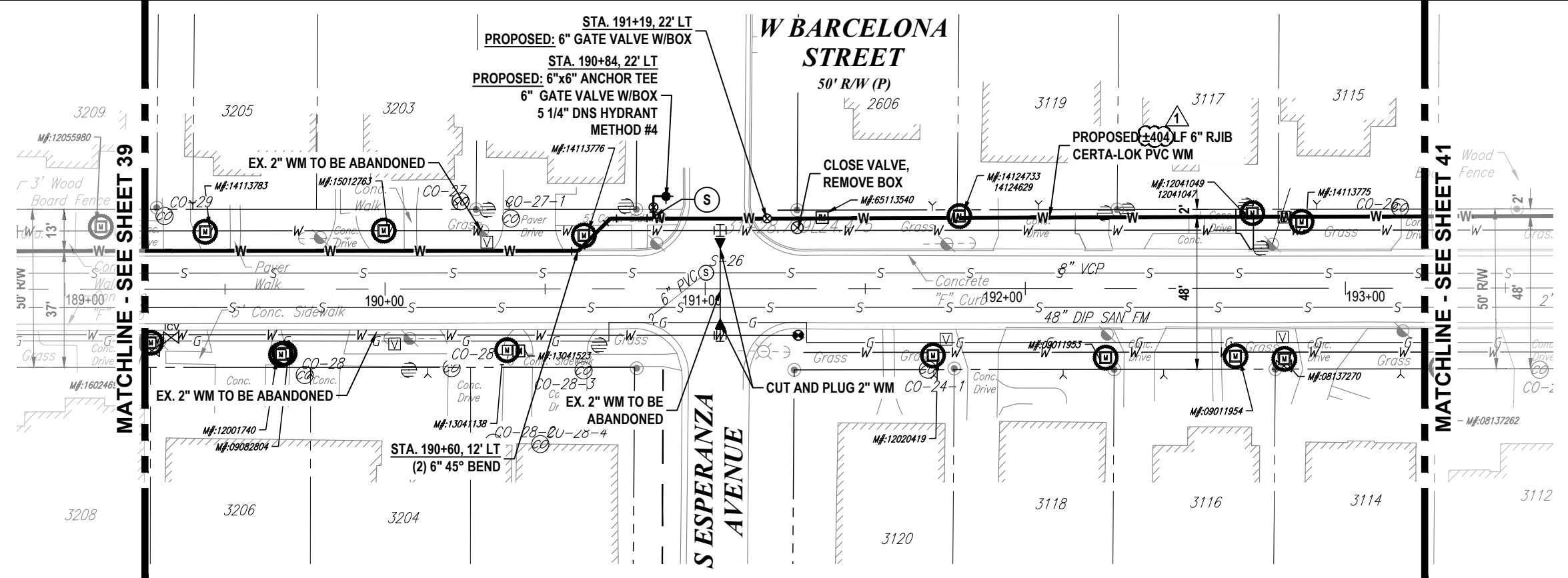
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PALMA CEIA PHASE III
W BARCELONA STREET 4



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
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 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

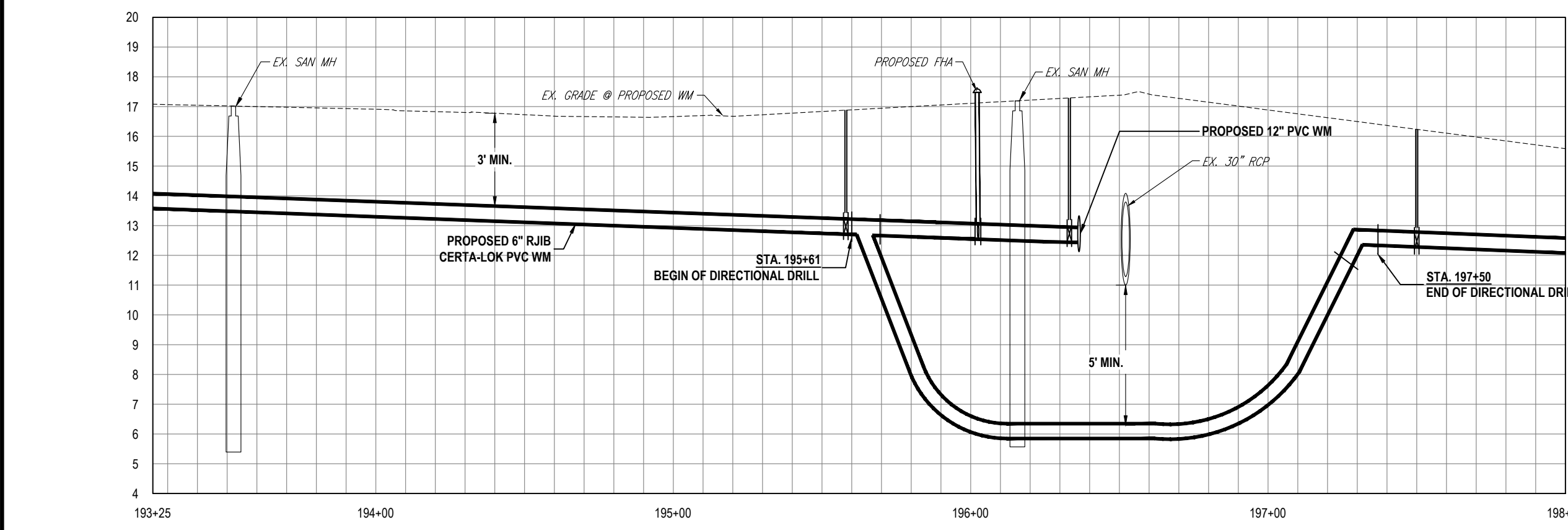
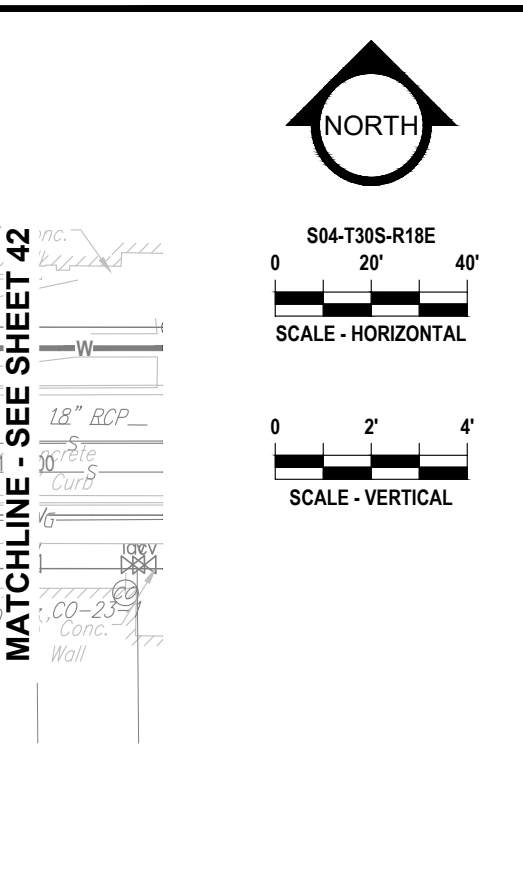
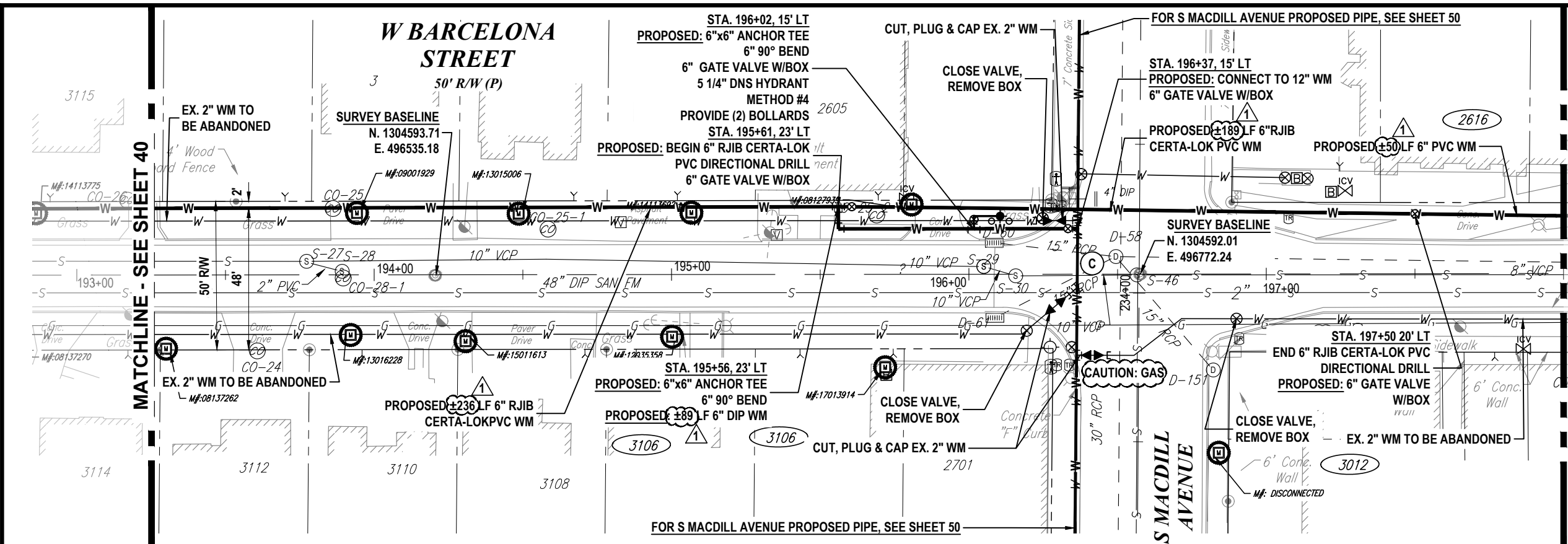
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PALMA CEIA PHASE III
 W BARCELONA STREET 5
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 ATLAS PAGE J-10/K10 SHEET 40 OF 90

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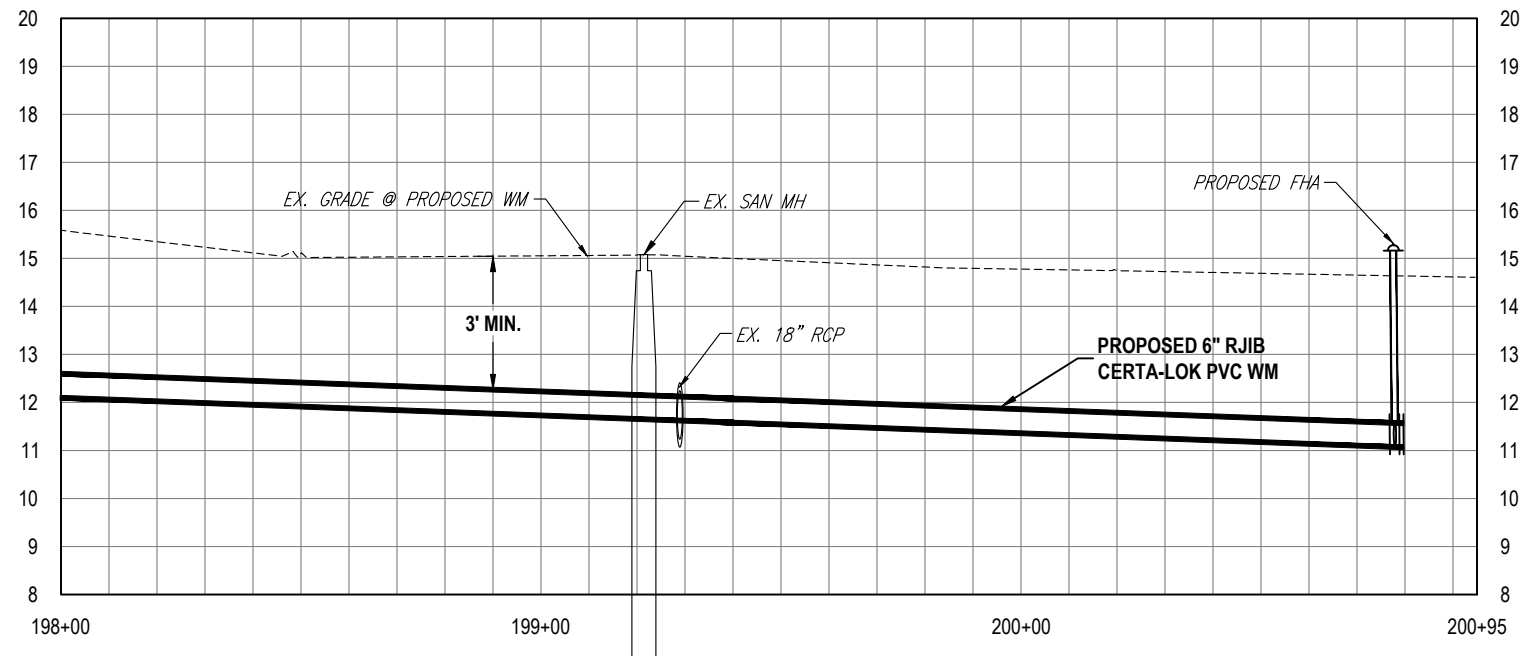
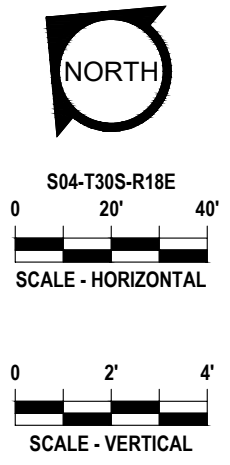
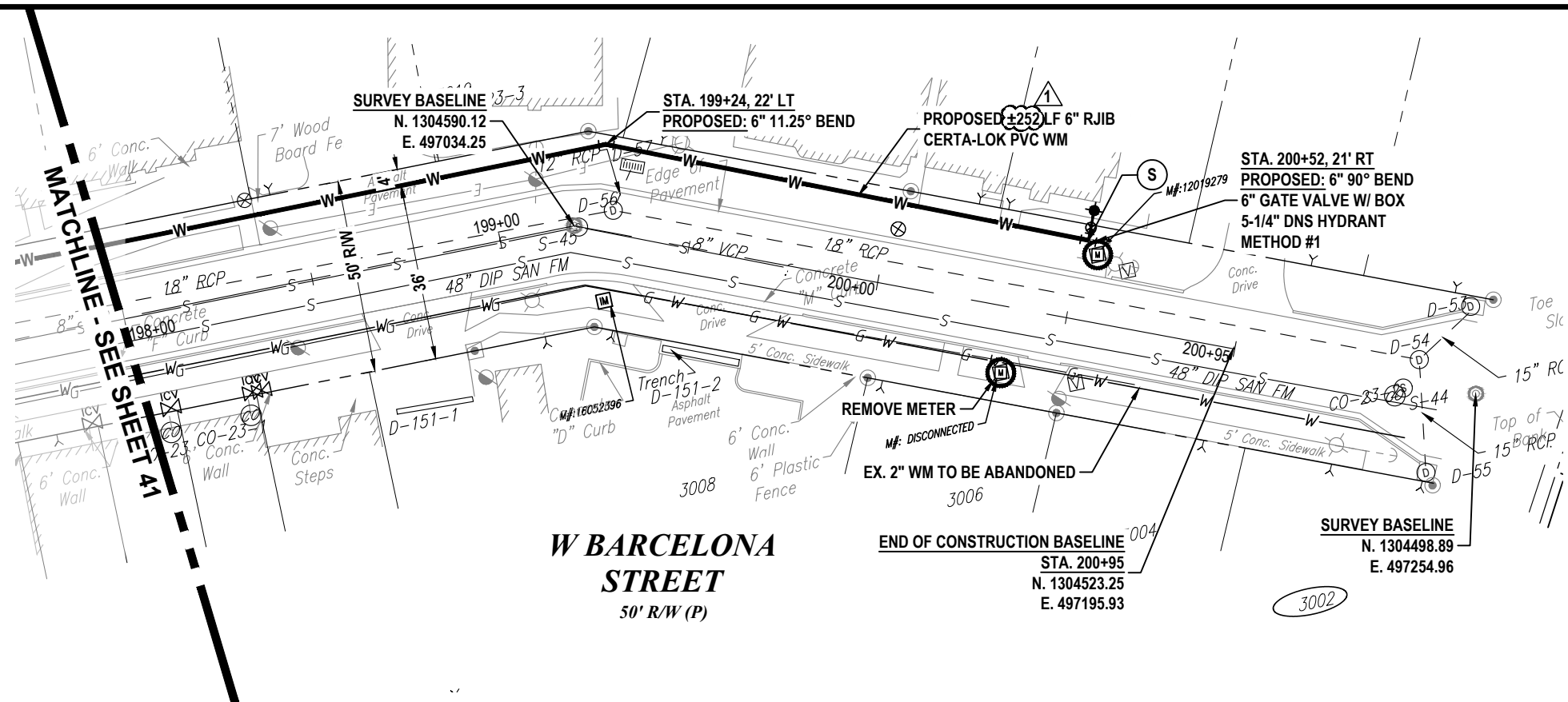
RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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PALMA CEIA PHASE III
W BARCELONA STREET 6
DATE 06/04/2019



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RECORD DRAWING NO.
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 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

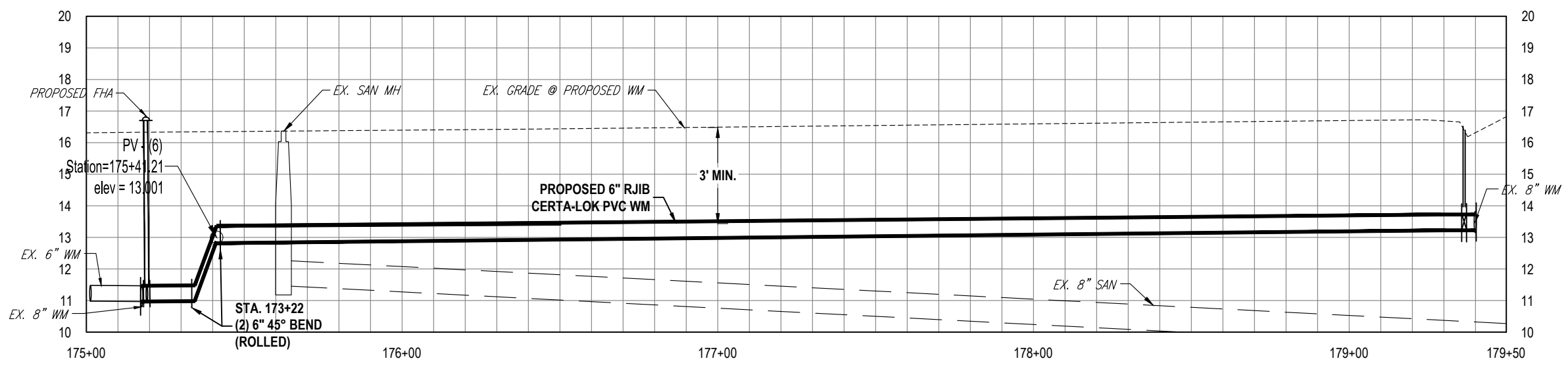
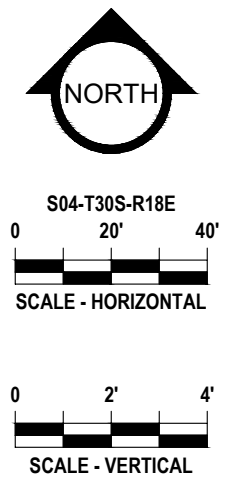
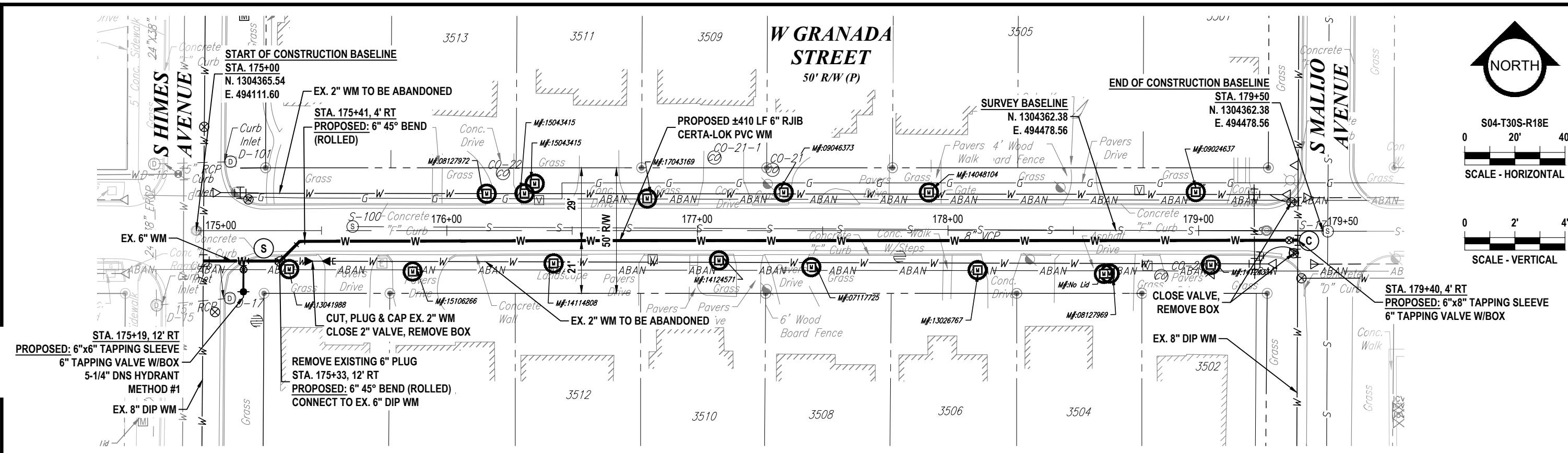
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PALMA CEIA PHASE III
 W BARCELONA STREET 7



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 WORK ORDER NO. WTR-18-0005
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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

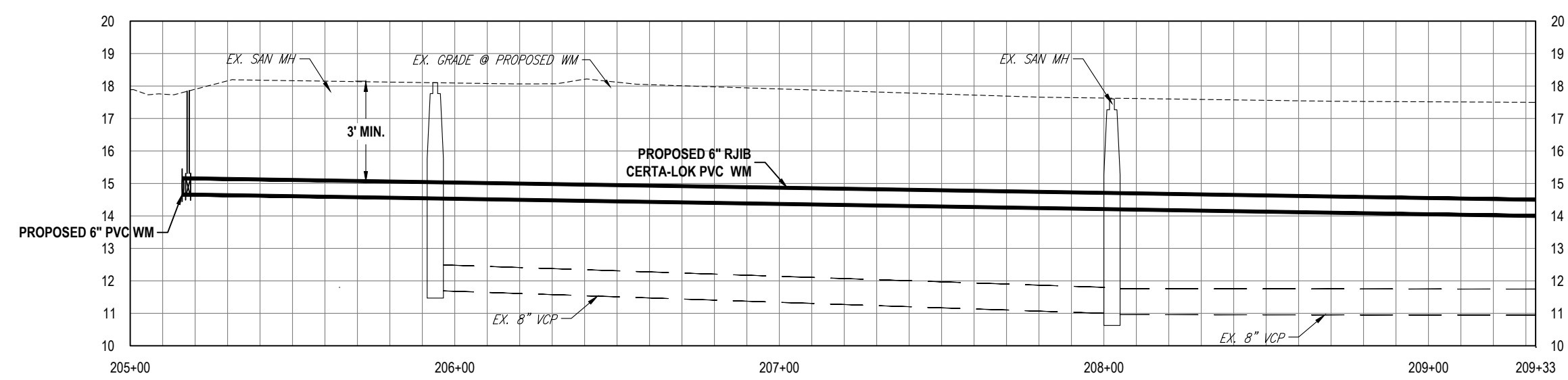
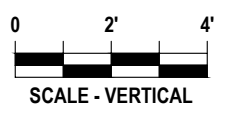
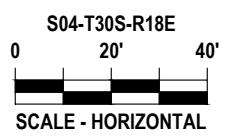
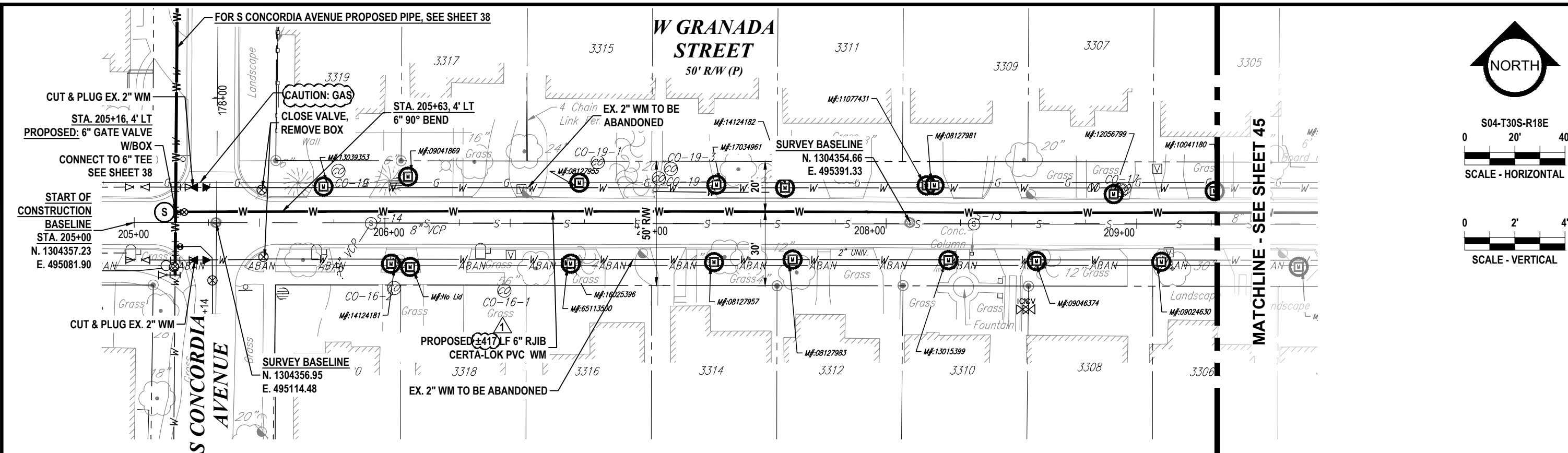
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PALMA CEIA PHASE III

W GRANADA STREET 1



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
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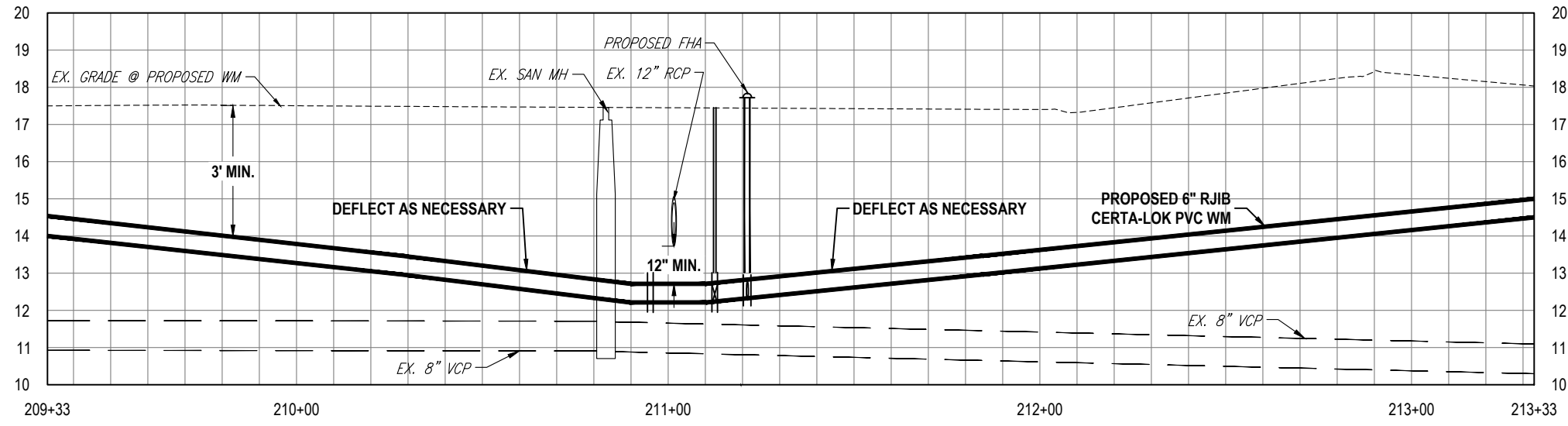
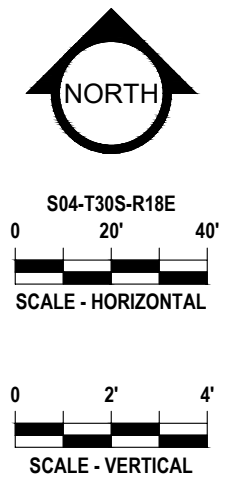
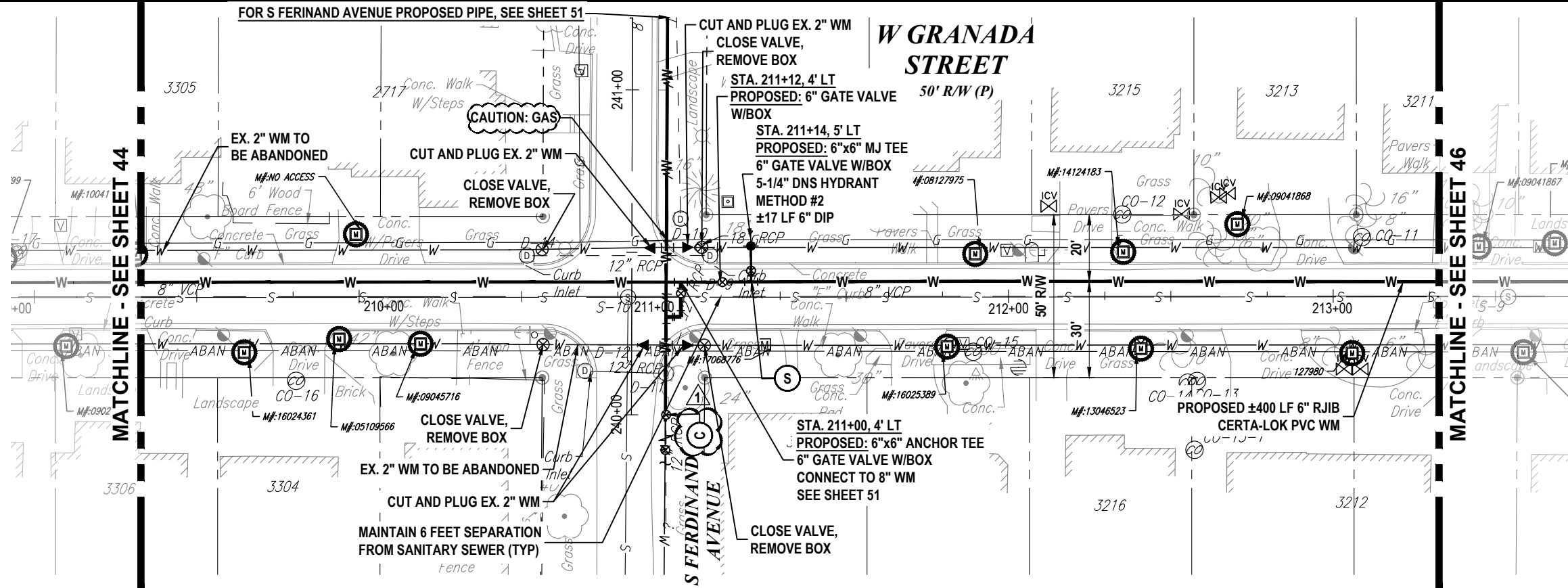
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PALMA CEIA PHASE III
W GRANADA STREET 2



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WORK ORDER NO.	WTR-18-0005
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 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

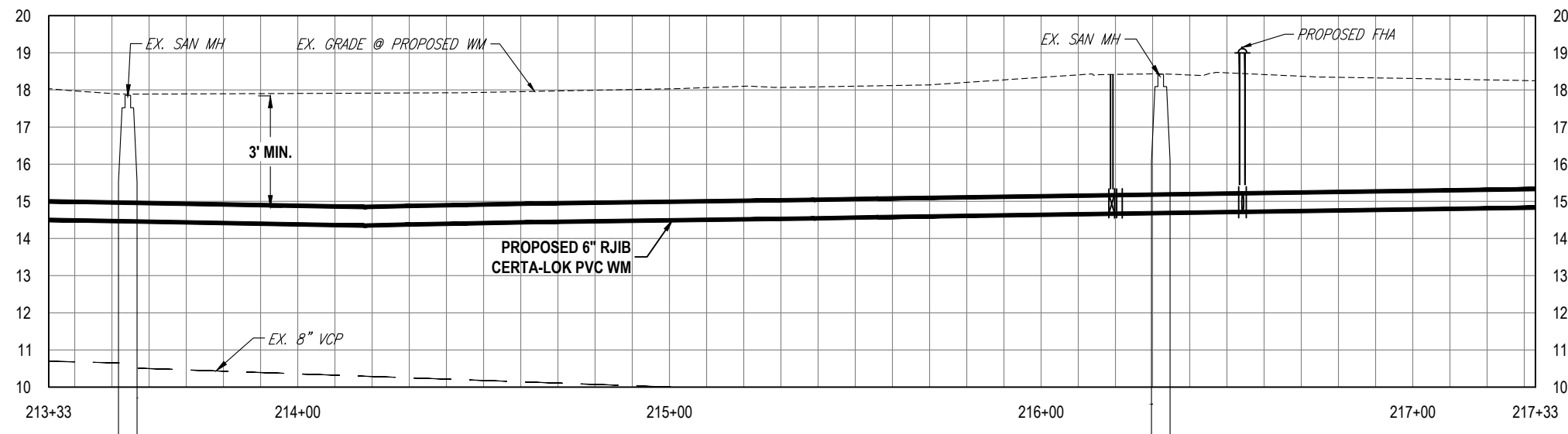
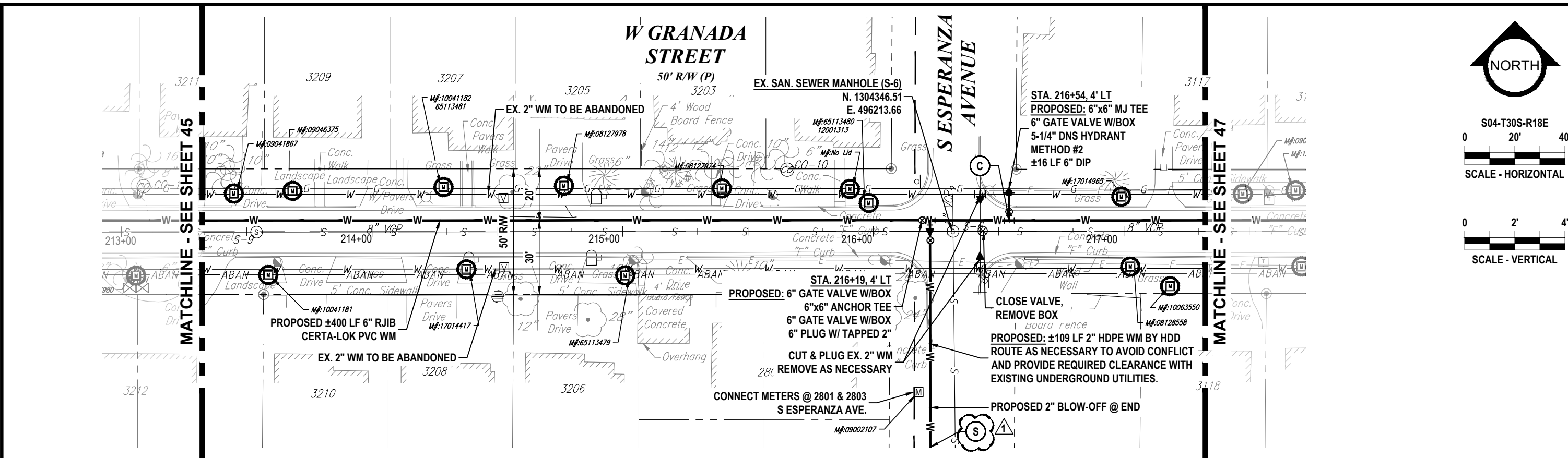
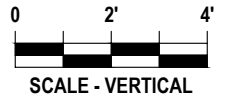
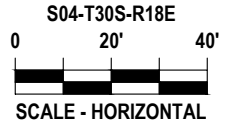
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DATE	06/04/2019

PALMA CEIA PHASE III
 W GRANADA STREET 3



100% PLANS	
WORK ORDER NO.	WTR-18-0005
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RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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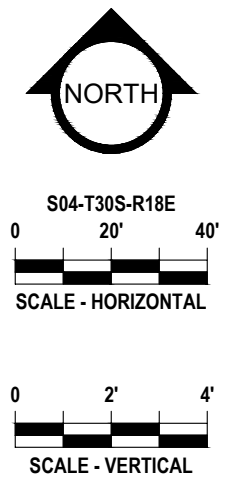
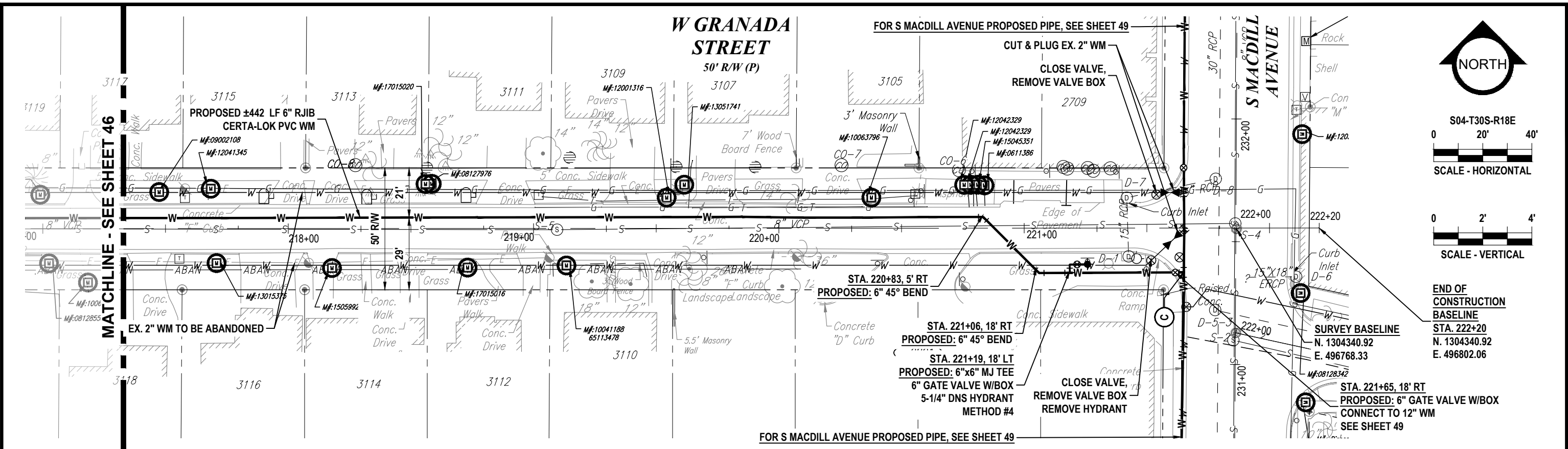
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PALMA CEIA PHASE III
W GRANADA STREET 4



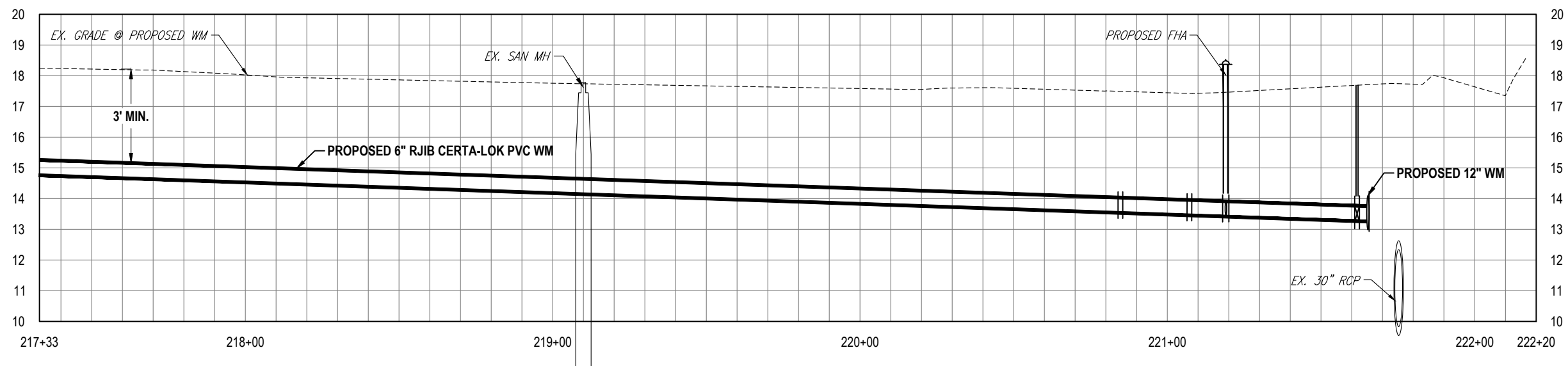
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RECORD DRAWING NO.	
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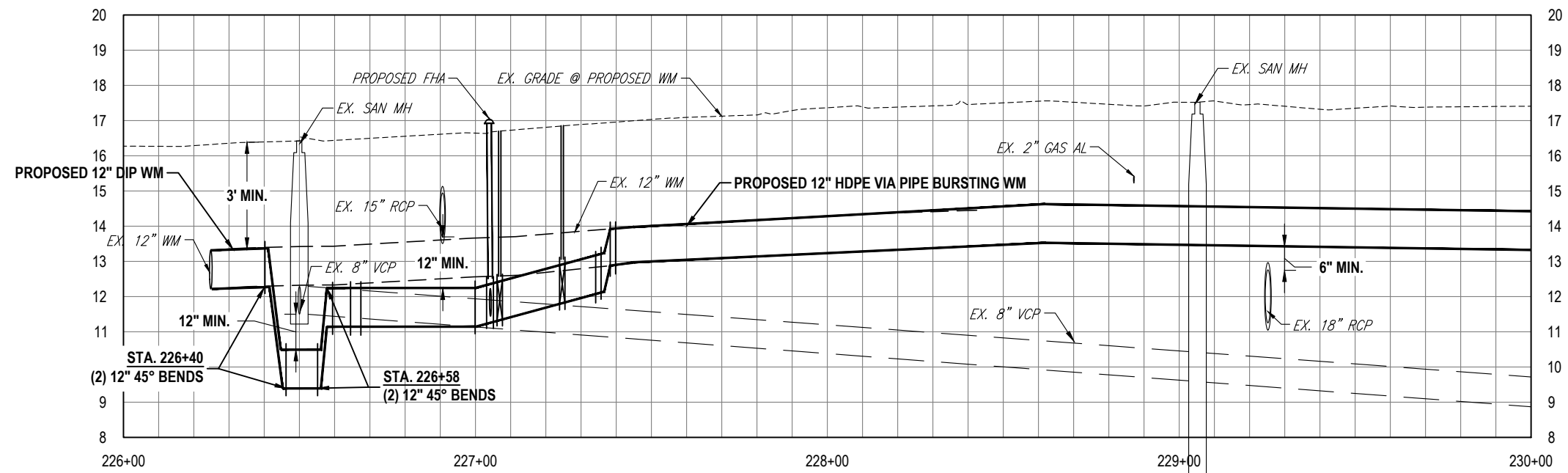
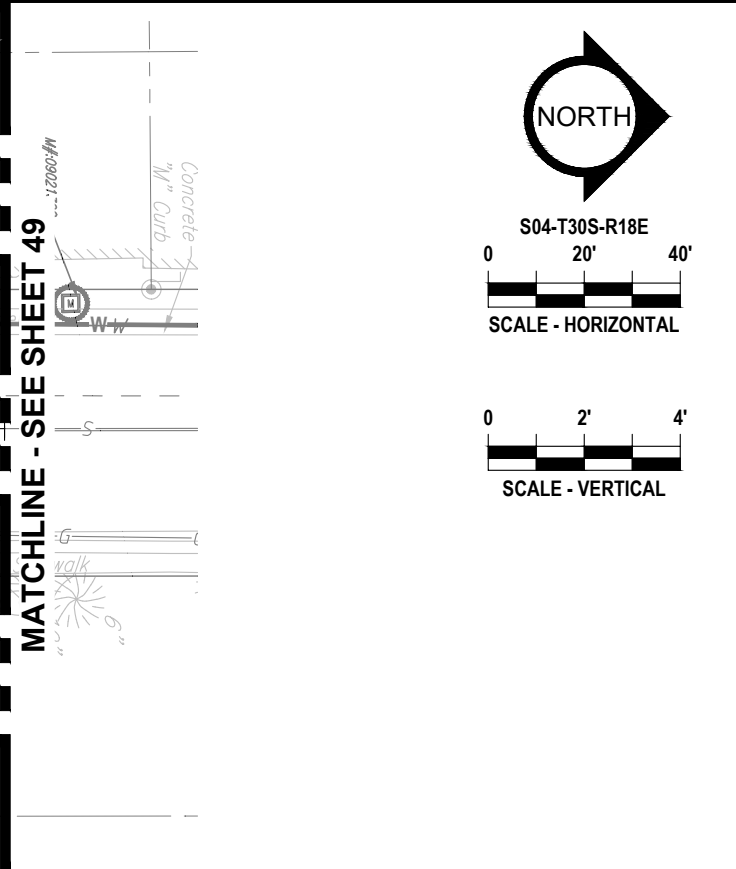
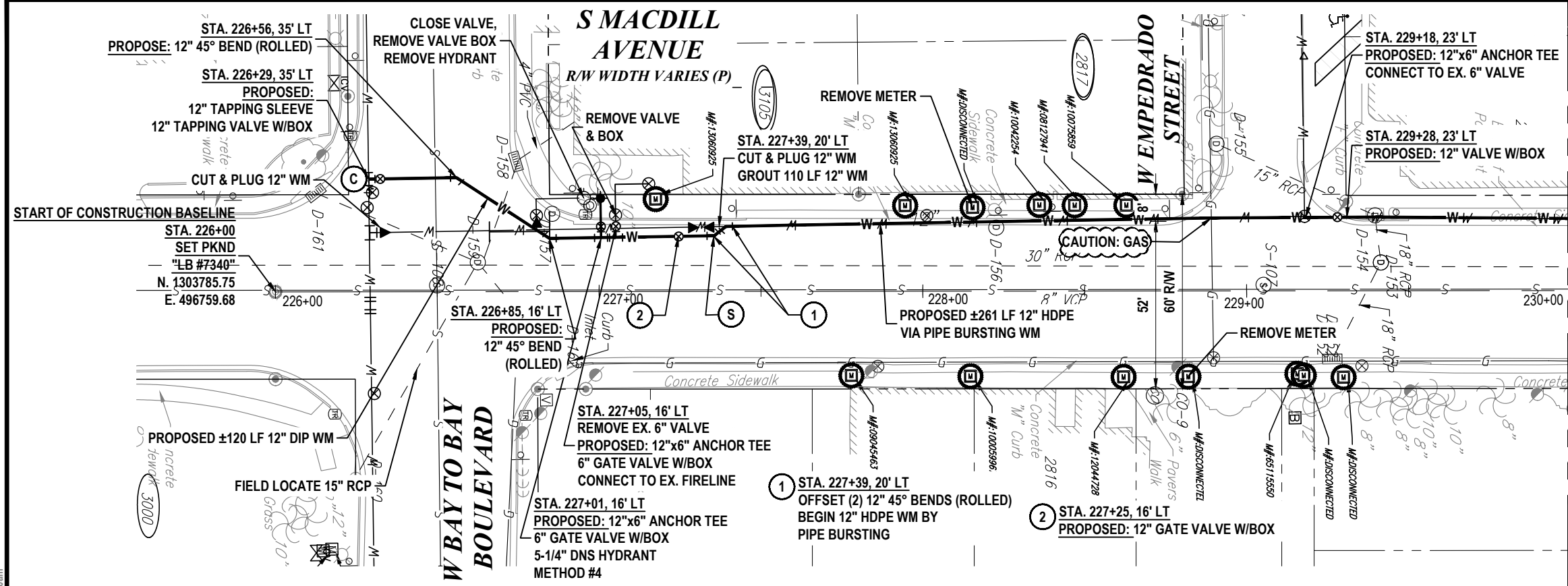


END OF CONSTRUCTION BASELINE
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 E. 496768.33

STA. 221+65, 18' RT
 PROPOSED: 6" GATE VALVE W/BOX
 CONNECT TO 12" WM
 SEE SHEET 49



RORY A. JONES, P.E. CITY OF TAMPA WATER DEPT. 306 E. JACKSON ST., 5E TAMPA, FLA. 33602 P.E. #79453	REV NO.	DATE	DESCRIPTION	BY	DESIGNED	CL	PALMA CEIA PHASE III W GRANADA STREET 5		100% PLANS		
	SV			WORK ORDER NO.	WTR-18-0005	
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RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

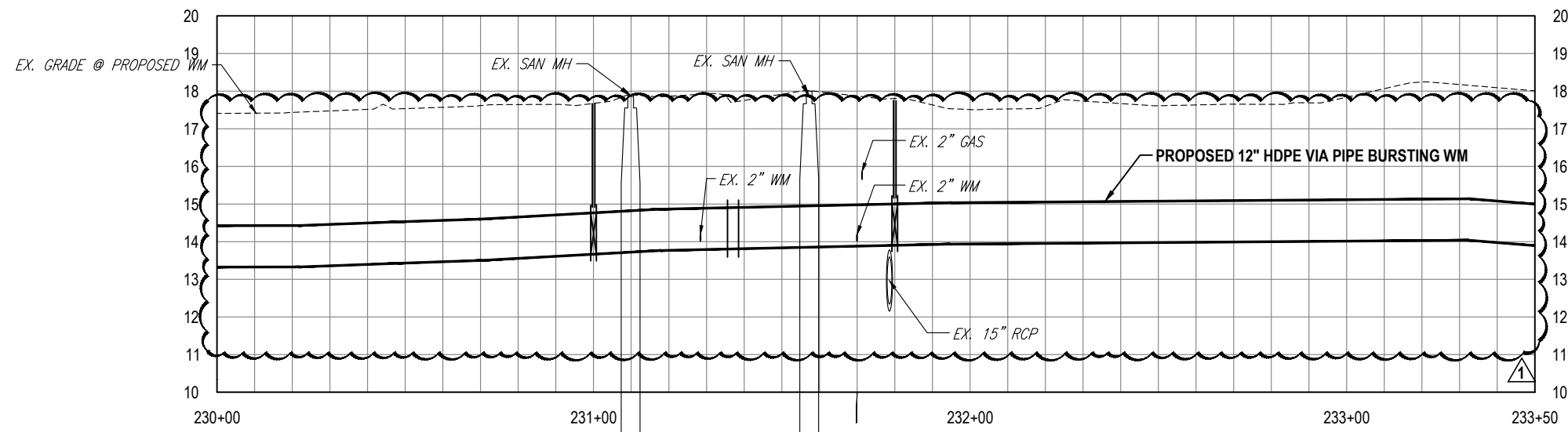
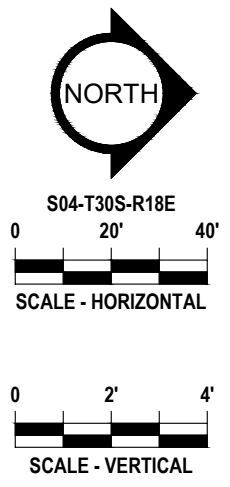
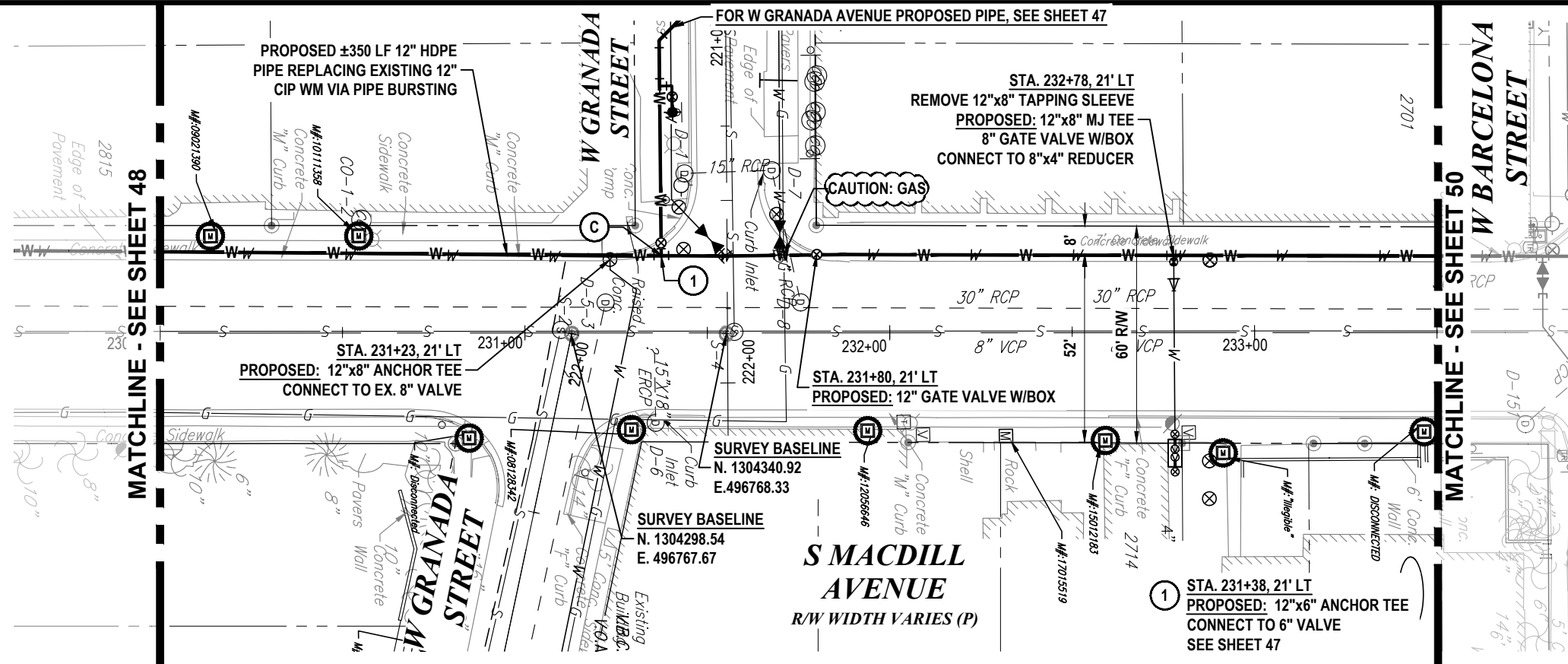
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PALMA CEIA PHASE III

S MACDILL AVENUE 1



100% PLANS	
WORK ORDER NO.	WTR-18-0005
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ATLAS PAGE J-10/K10	SHEET 48 OF 90



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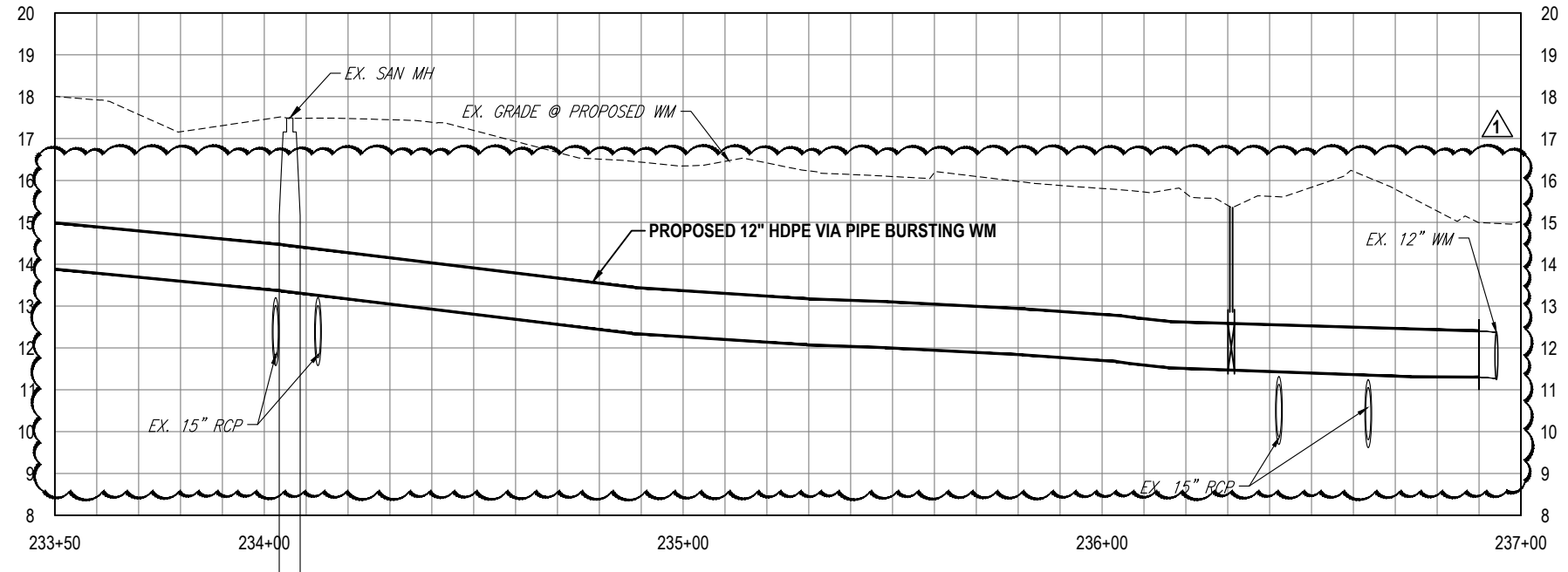
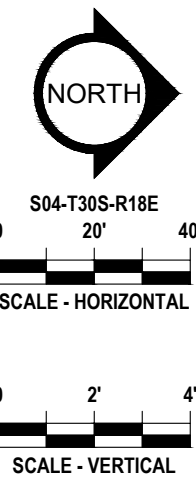
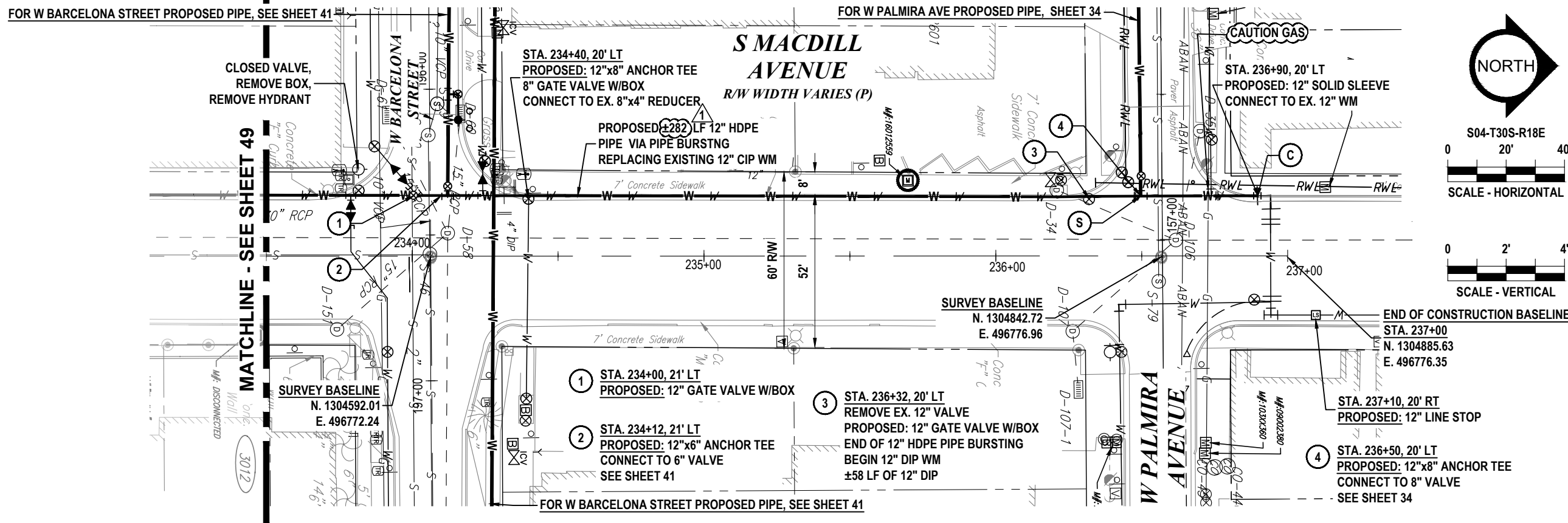
RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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WORK ORDER NO.	WTR-18-0005
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ATLAS PAGE J-10/K10	SHEET 49 OF 90



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RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
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PALMA CEIA PHASE III

S MACDILL AVENUE 3



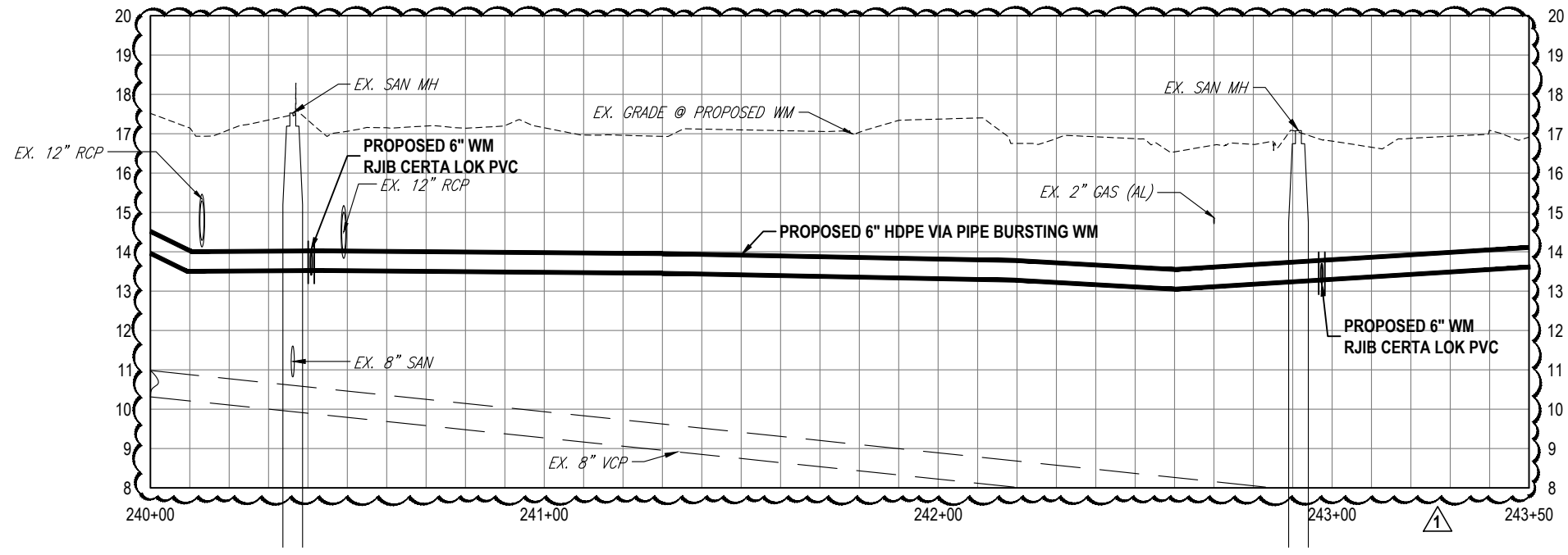
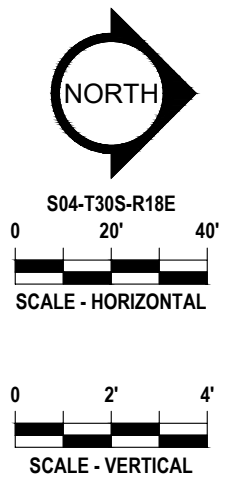
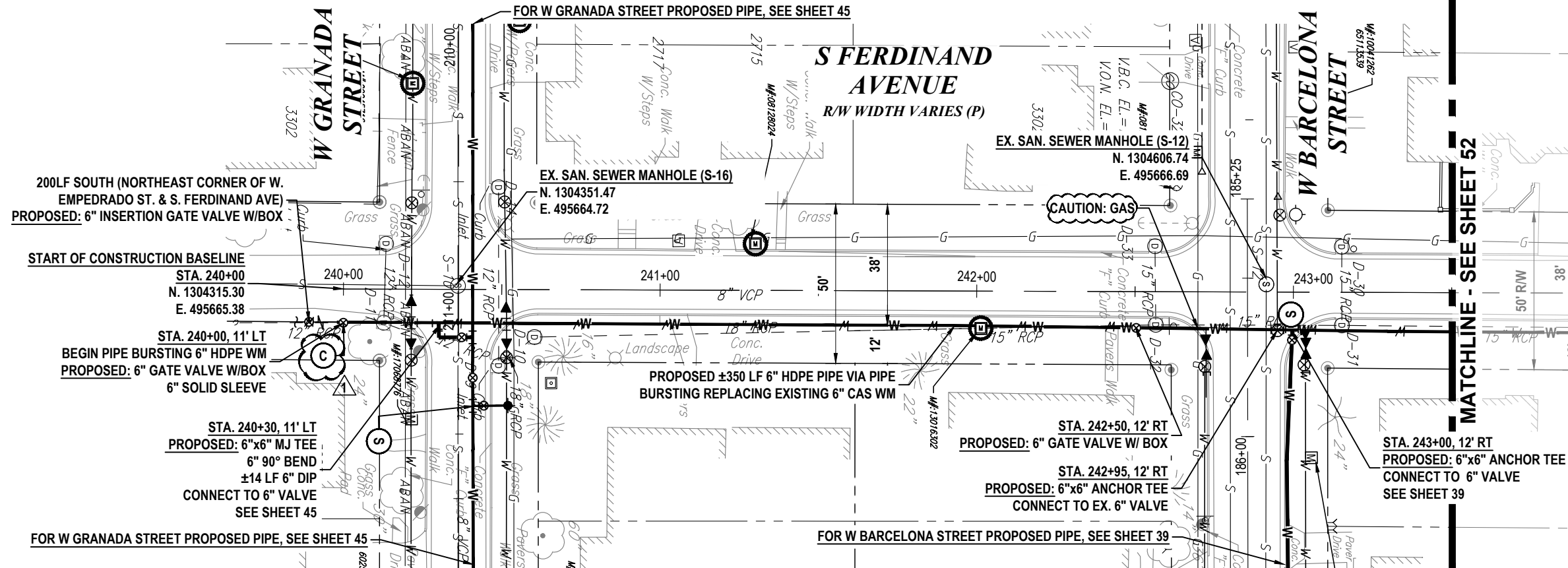
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WORK ORDER NO. WTR-18-0005

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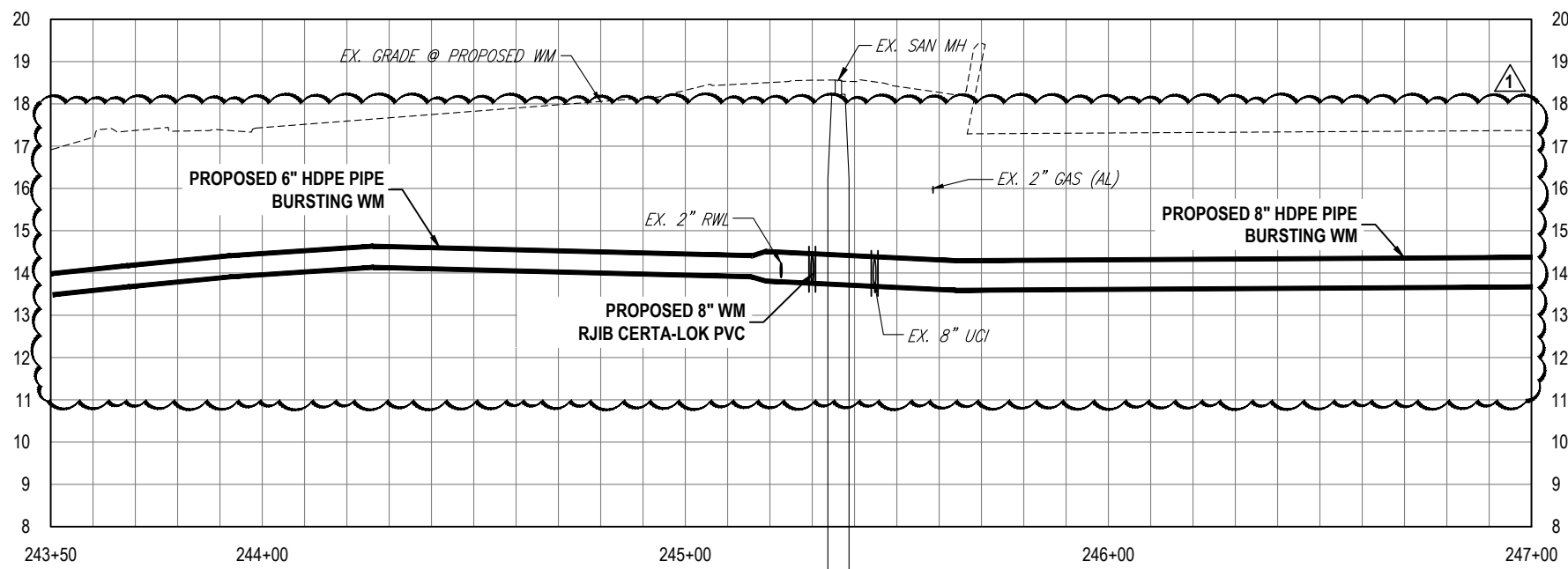
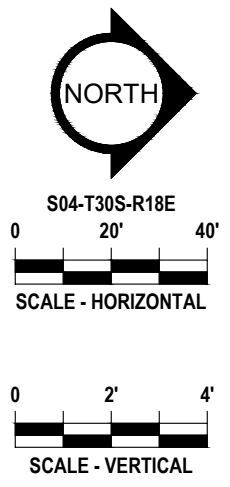
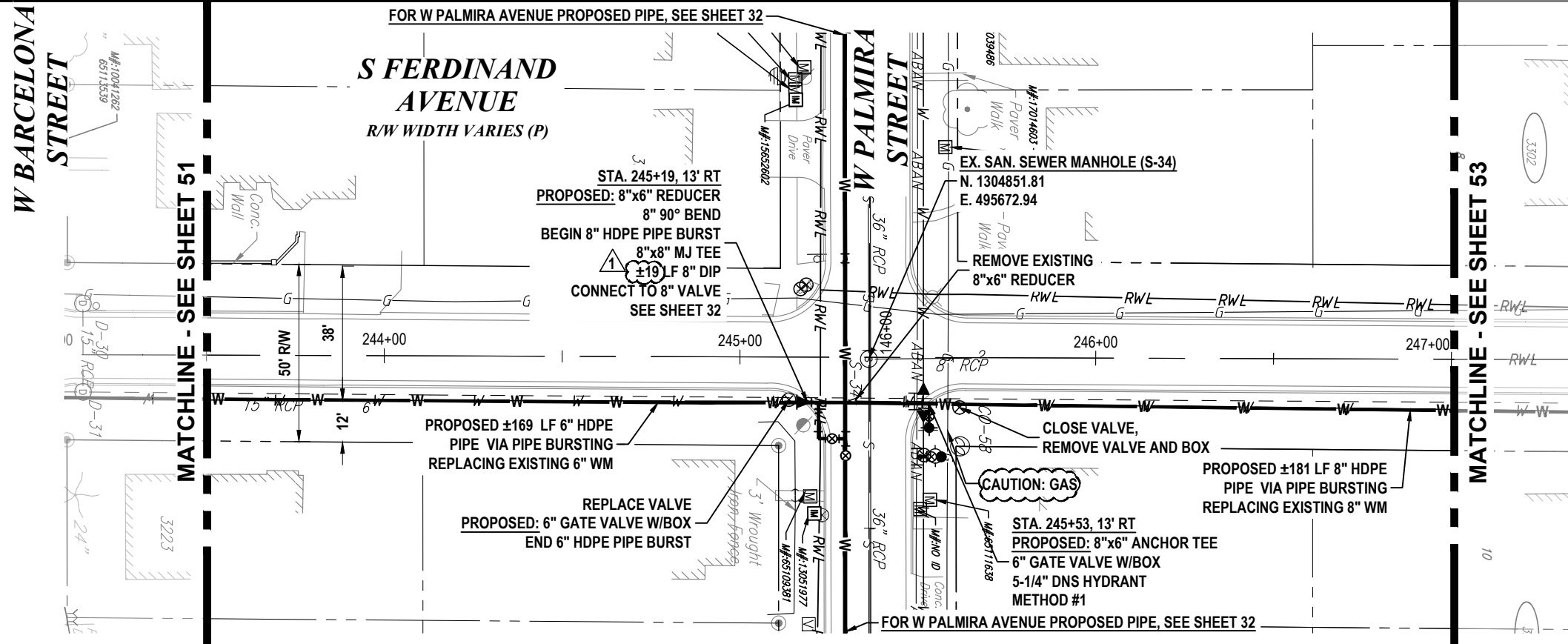
RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

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 DATE 06/04/2019
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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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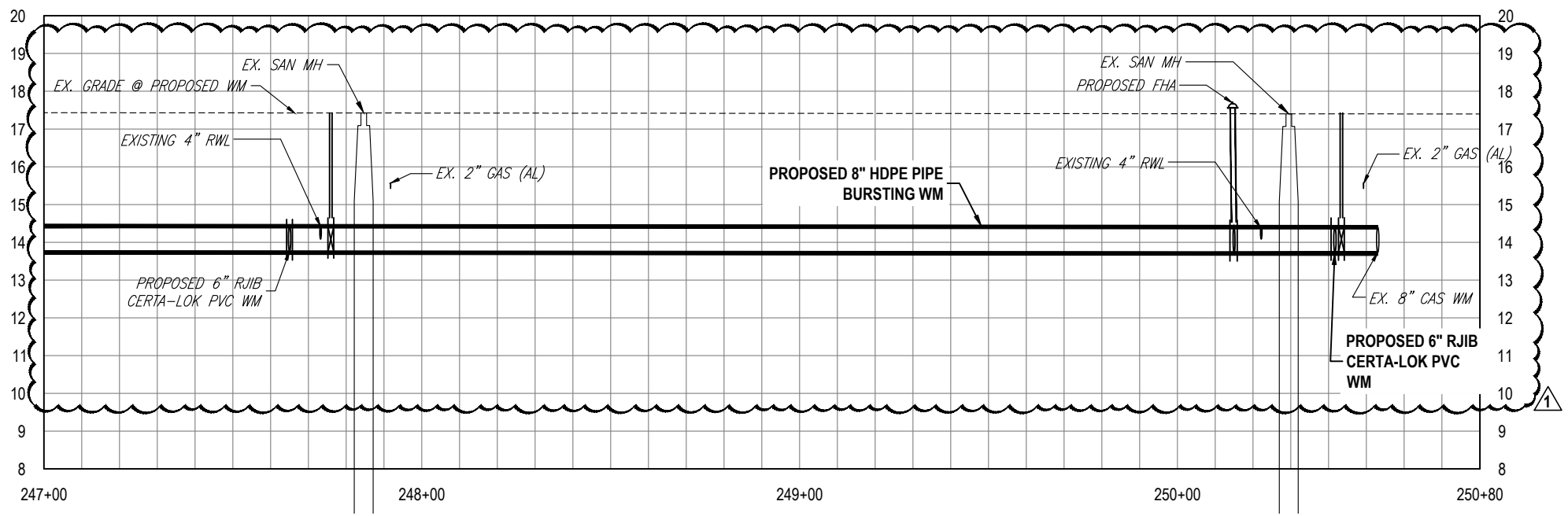
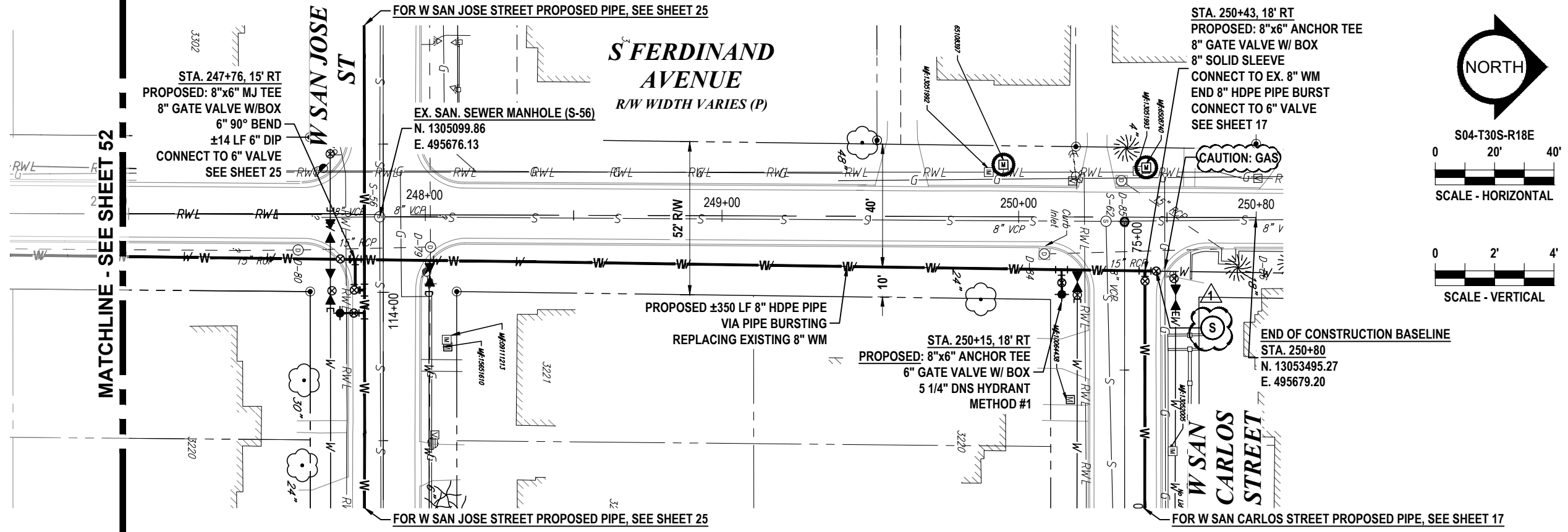
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CHECKED	RAJ
DATE	06/04/2019

PALMA CEIA PHASE III

S FERDINAND AVENUE 2



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGEJ-10/K10	SHEET 52 OF 90



K:\Projects\WTR\18\WTR-18-0005\Palma Ceia Phase III\Water Main Replacement\02-Design\Drawings\01-Dwg\02-Sheets\WTR-18-0005-PLN\PRF06.dwg, Feb 04, 2021 - 7:21am

RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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CHECKED RAJ
DATE 06/04/2019

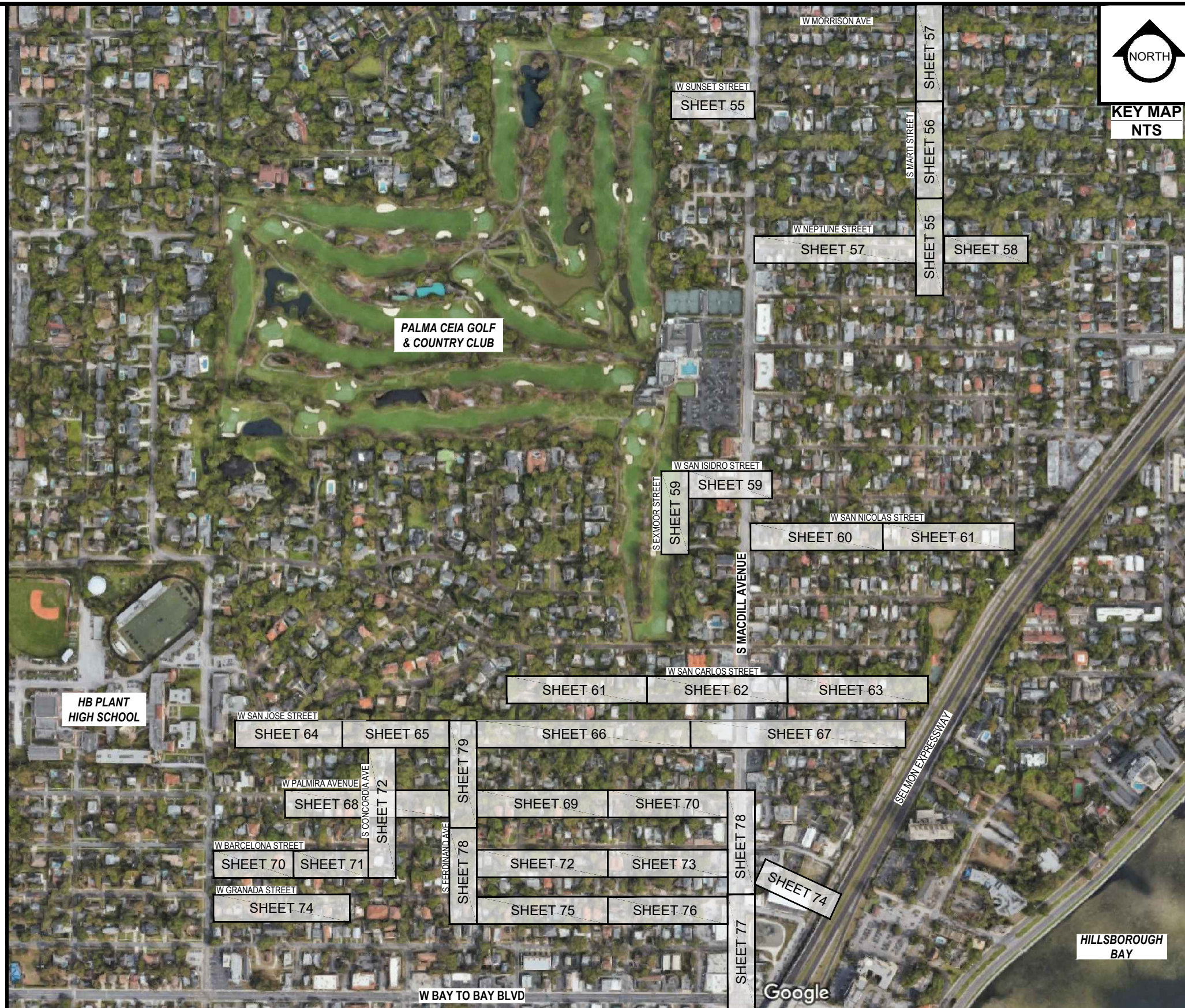
PALMA CEIA PHASE III

S FERDINAND AVENUE 3



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 53 OF 90

K:\Projects\WTR\18-0005\Palma Ceia Phase III Water Main Replacement\02-Design\Drawings\01-Dwg\MO & Sampling Stations\02-Sheets\WTR-18-0005-PLANPRF1.dwg Feb 04, 2021 - 7:21am



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 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

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.	.	.	.	DRAWN	SV
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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

KEY MAP



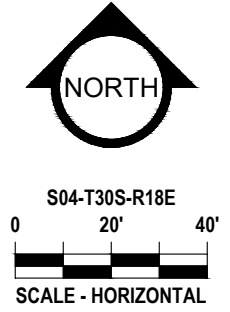
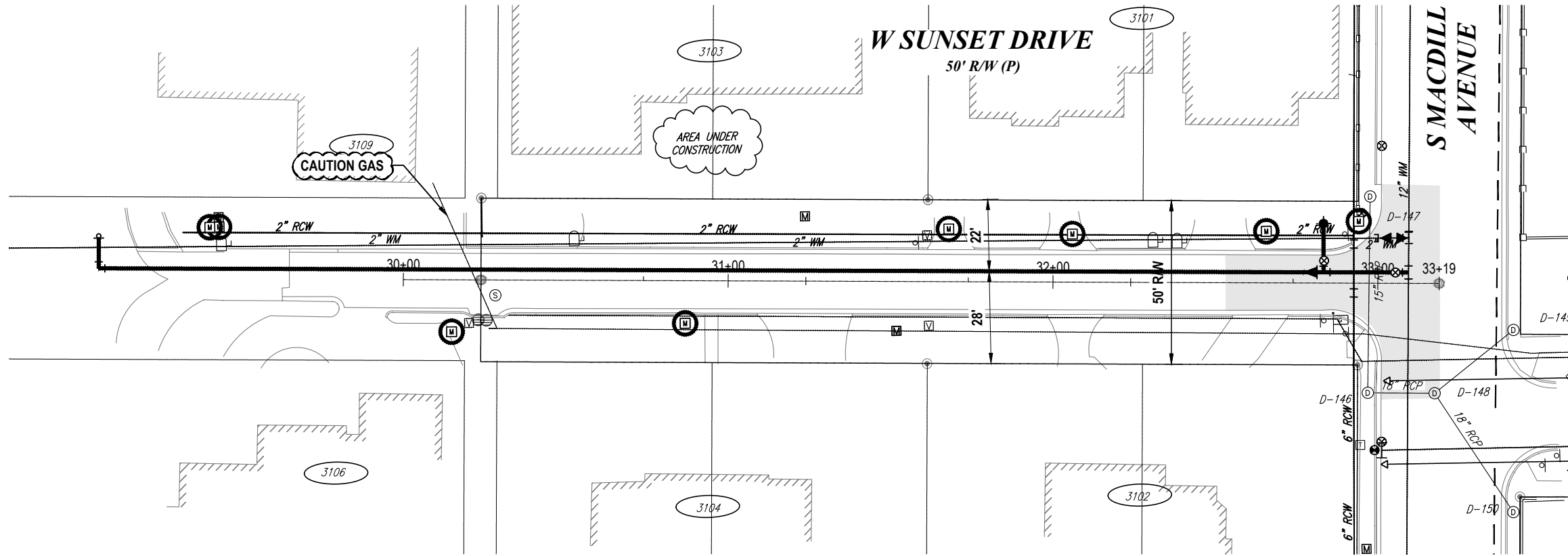
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WORK ORDER NO. WTR-18-0005

RECORD DRAWING NO.

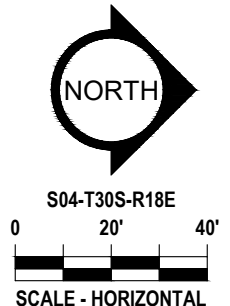
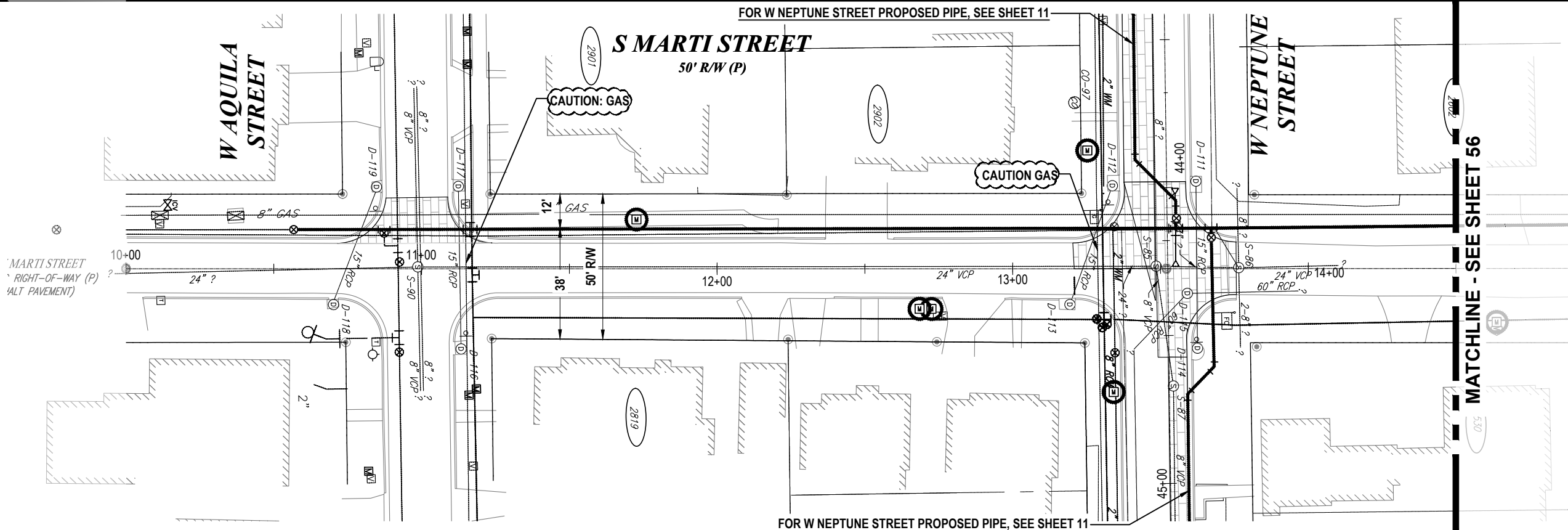
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 DESIGNATES LIMITS OF MILL AND OVERLAY

 BRICK PAVER REPLACEMENT



MATCHLINE - SEE SHEET 56

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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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1	01/19/2021	PERMIT REVISIONS	SV
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DESIGNED	CL
DRAWN	SV
CHECKED	RAJ
DATE	06/04/2019

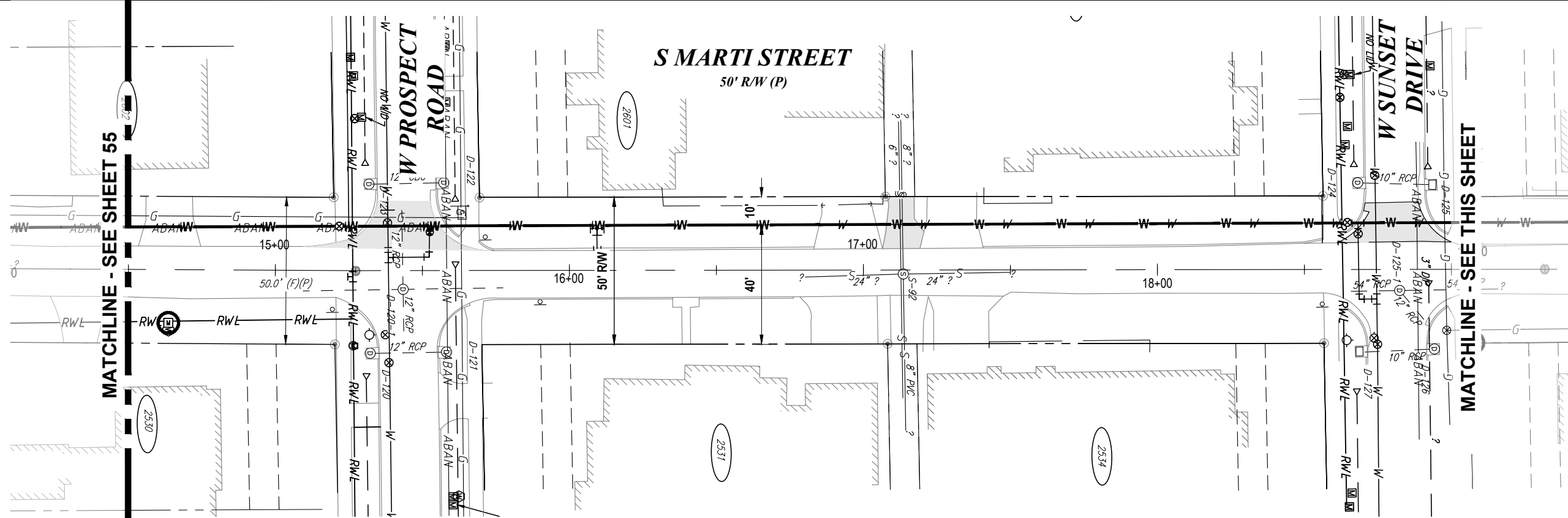
PALMA CEIA PHASE III

W SUNSET DRIVE & S MARTI STREET



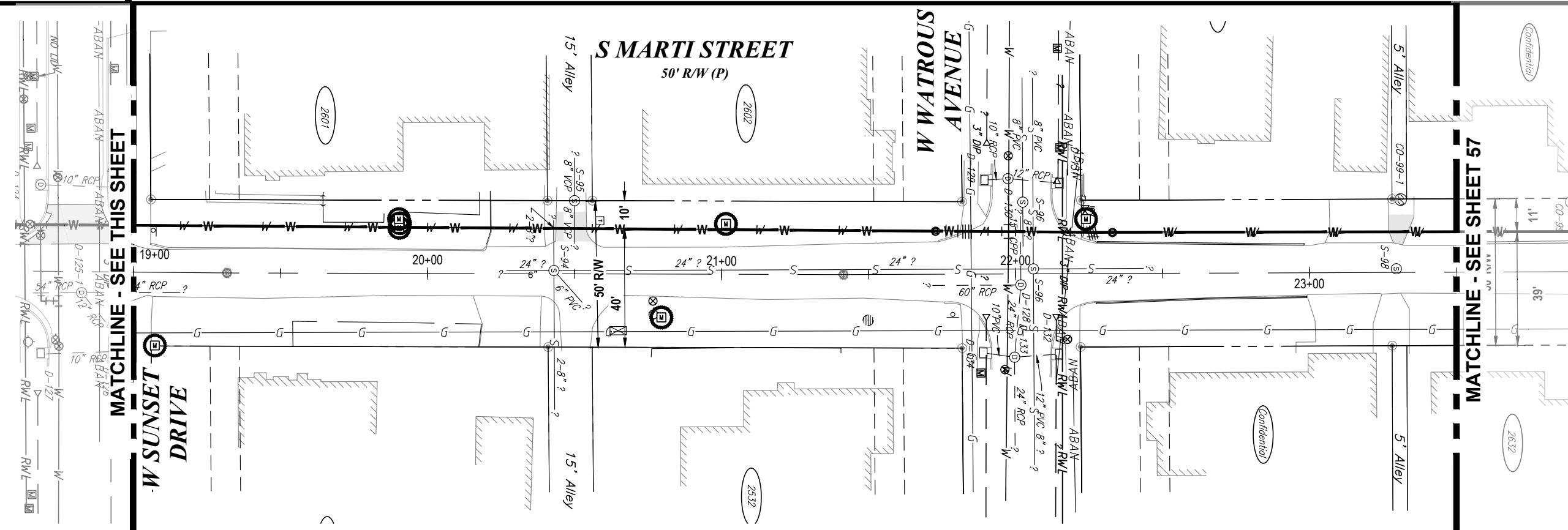
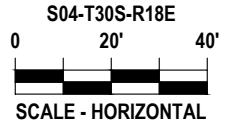
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WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 55 OF 90

K:\Projects\WTR\18\WTR-18-0005\Palma Ceia Phase III Water Main Replacement\02-Design\Drawings\01-Dwg\MO & Sampling Stations\02-Sheets\WTR-18-0005-PLANPRF1.dwg, Feb 04, 2021 - 7:21am



MATCHLINE - SEE SHEET 55

MATCHLINE - SEE THIS SHEET



MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE SHEET 57

RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

REV NO.	DATE	DESCRIPTION	BY
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CHECKED	RAJ
DATE	06/04/2019

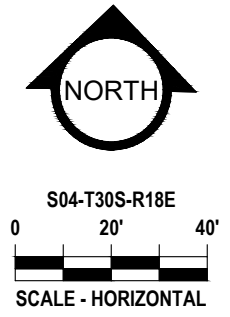
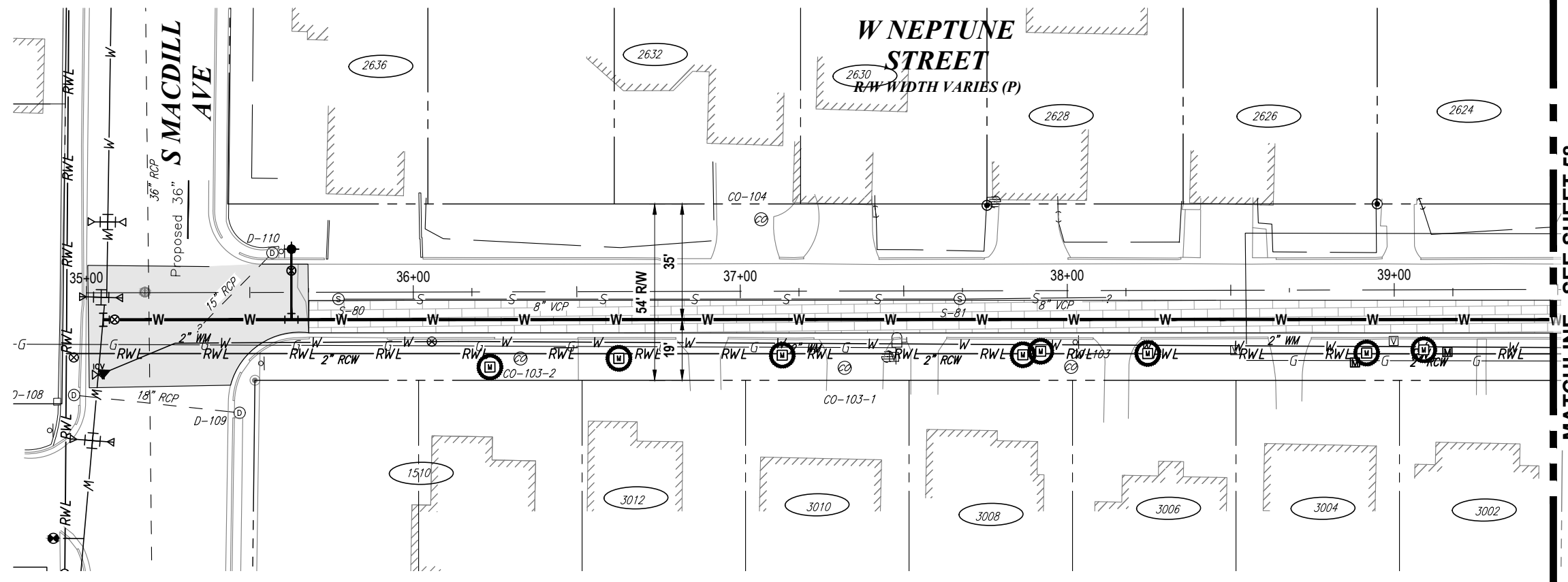
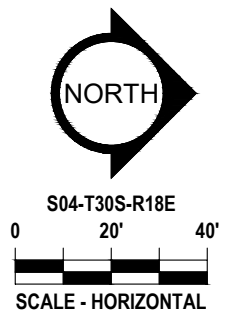
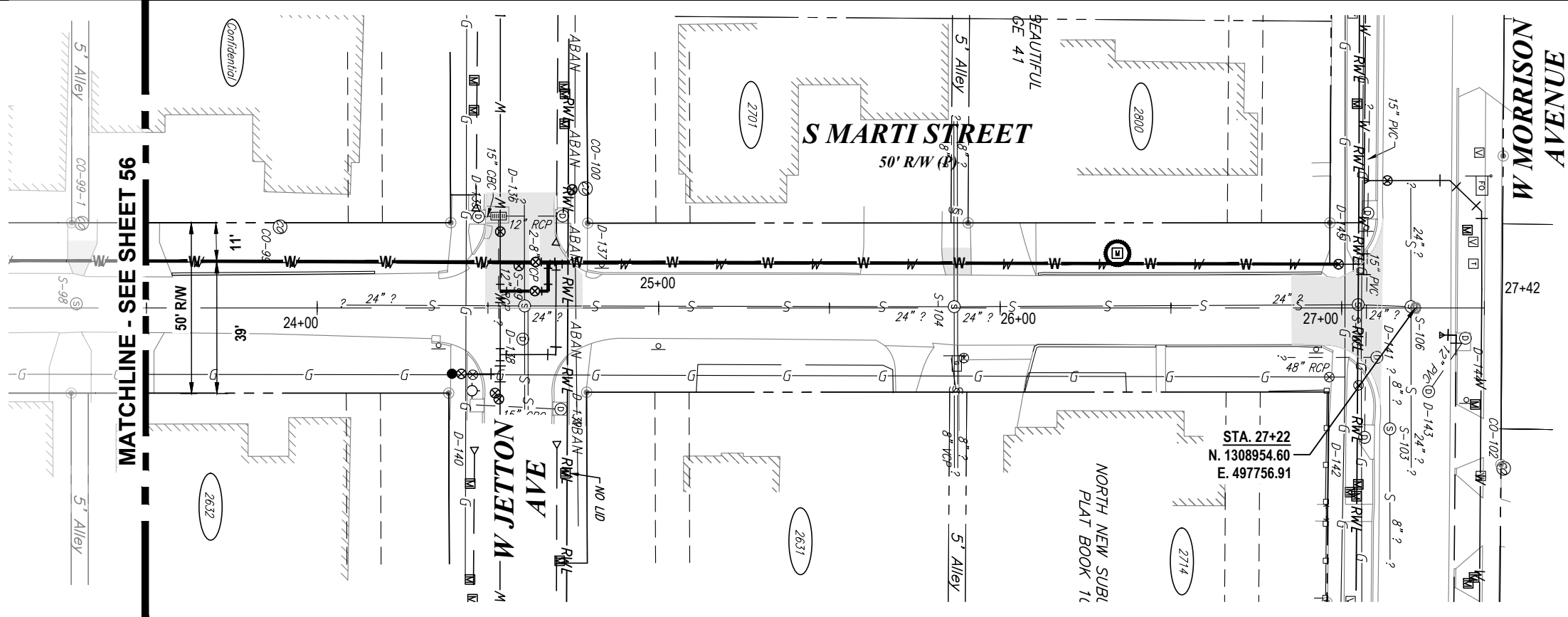
PALMA CEIA PHASE III

S MARTI STREET 1



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 56 OF 90

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 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

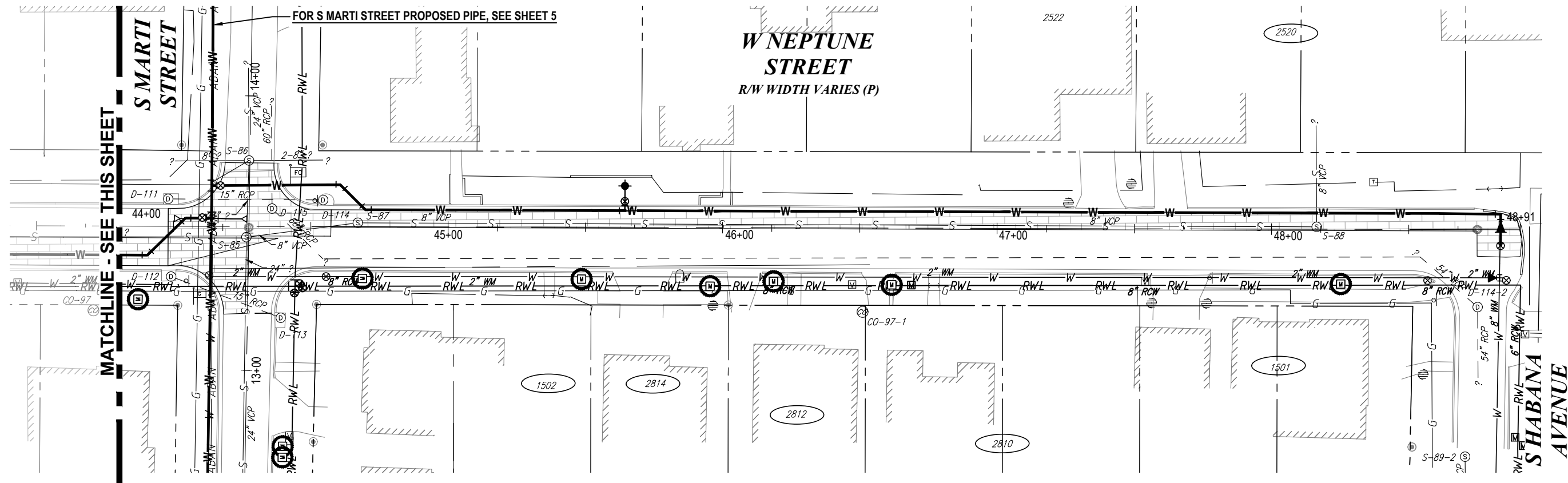
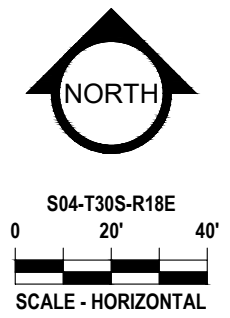
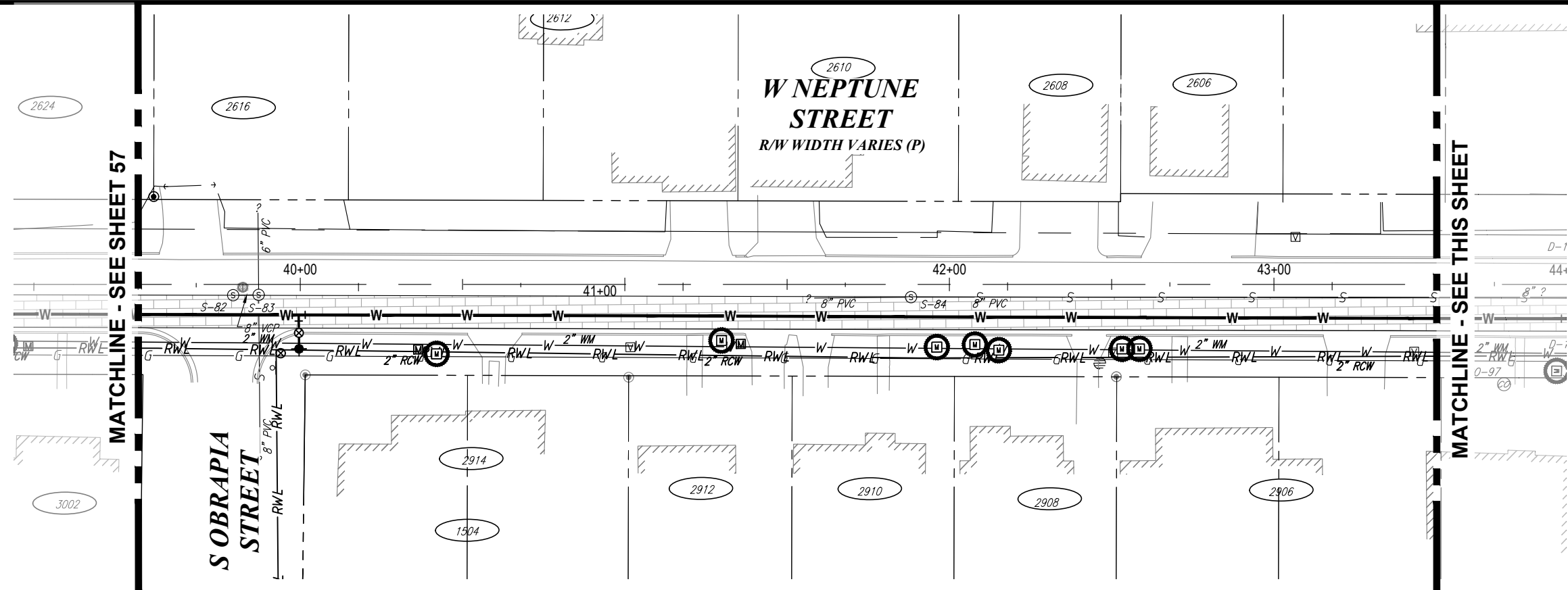
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PALMA CEIA PHASE III
 S MARTI STREET 2 & W NEPTUNE ST
 DATE 06/04/2019



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 WORK ORDER NO. WTR-18-0005
 RECORD DRAWING NO.
 ATLAS PAGE J-10/K10 SHEET 57 OF 90

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 TAMPA, FLA. 33602
 P.E. #79453

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PALMA CEIA PHASE III

W NEPTUNE STREET

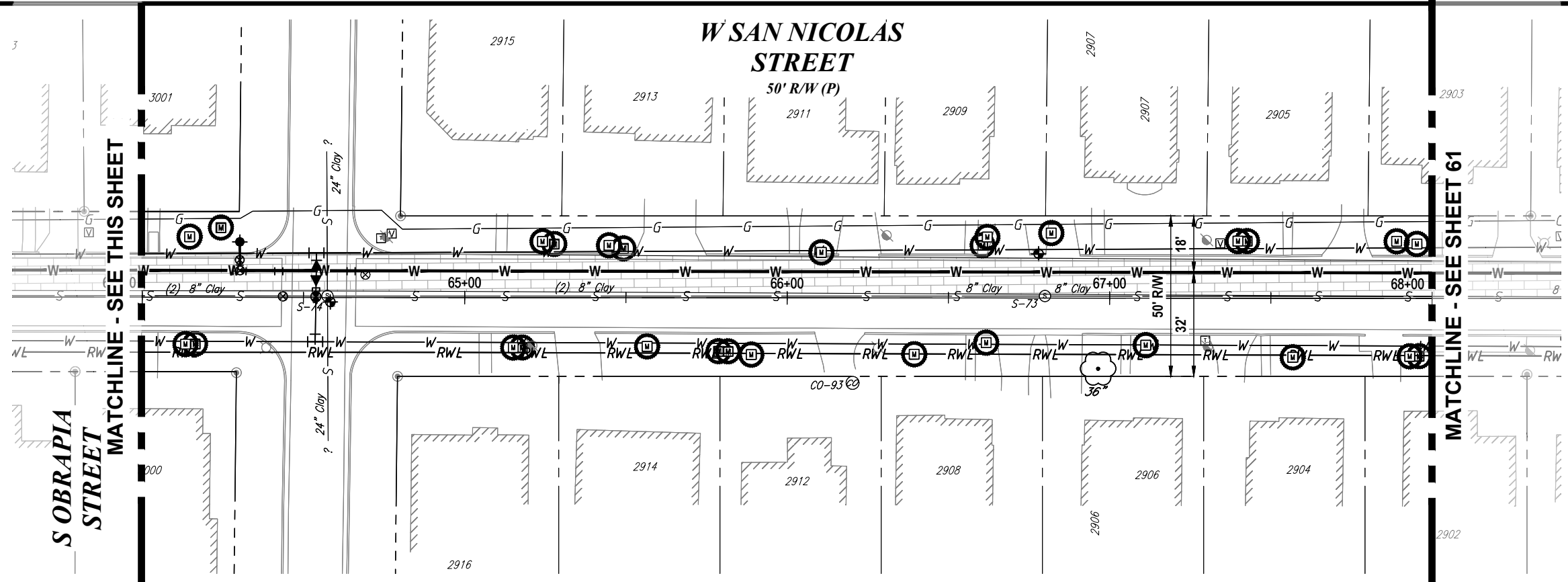
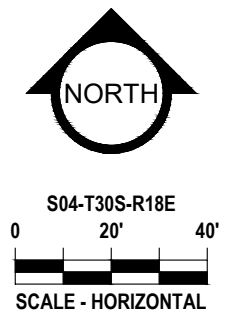
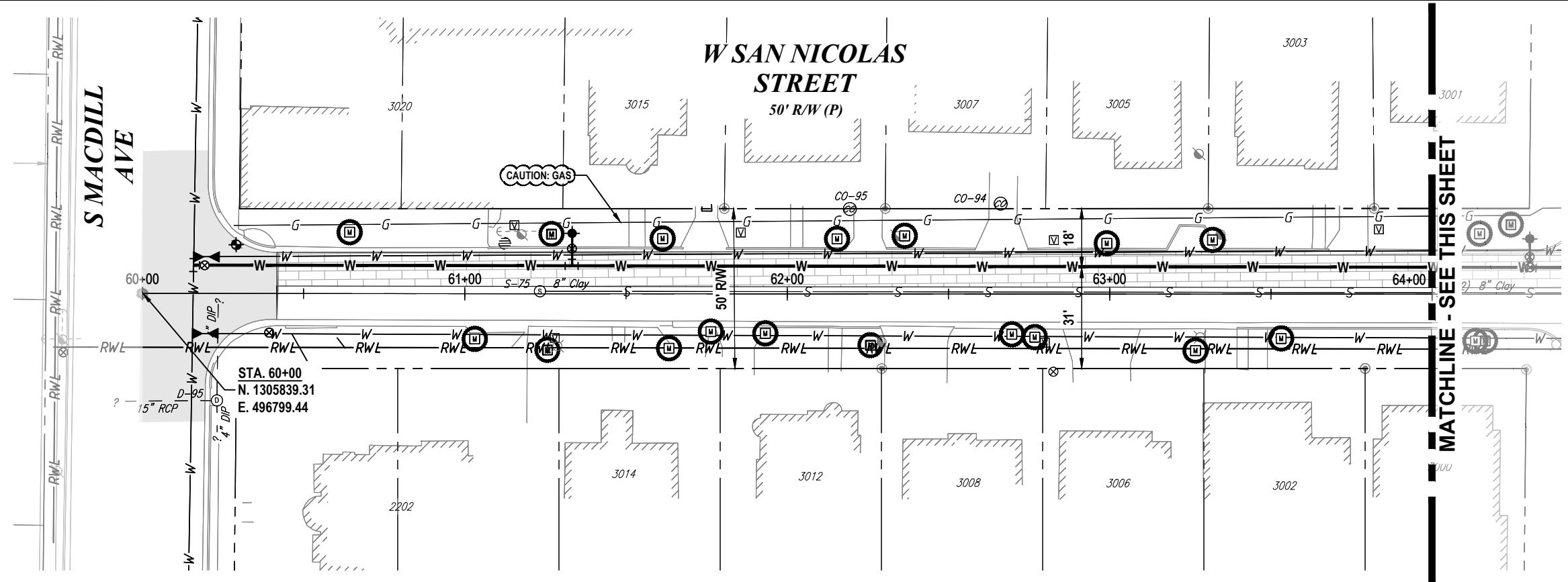


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WORK ORDER NO. WTR-18-0005

RECORD DRAWING NO.

ATLAS PAGE J-10/K10 SHEET 58 OF 90



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 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

REV NO.	DATE	DESCRIPTION	BY

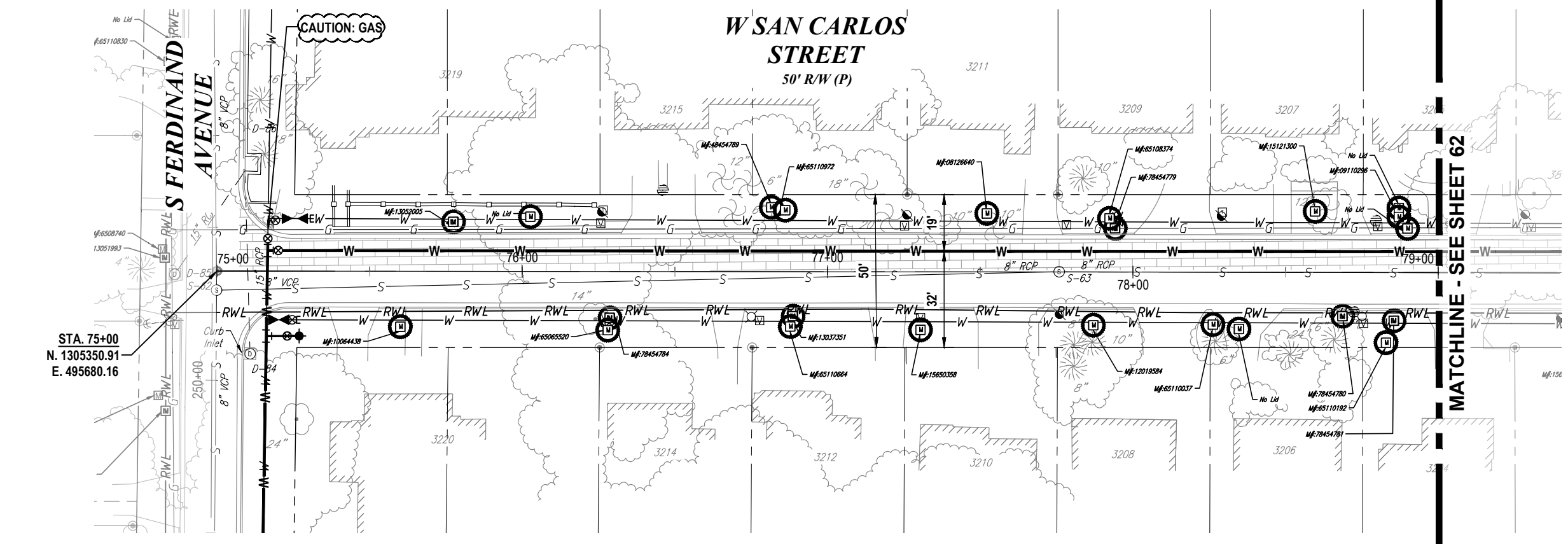
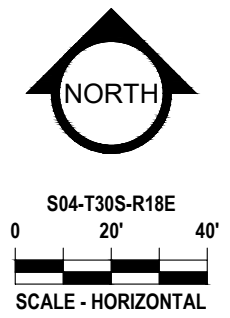
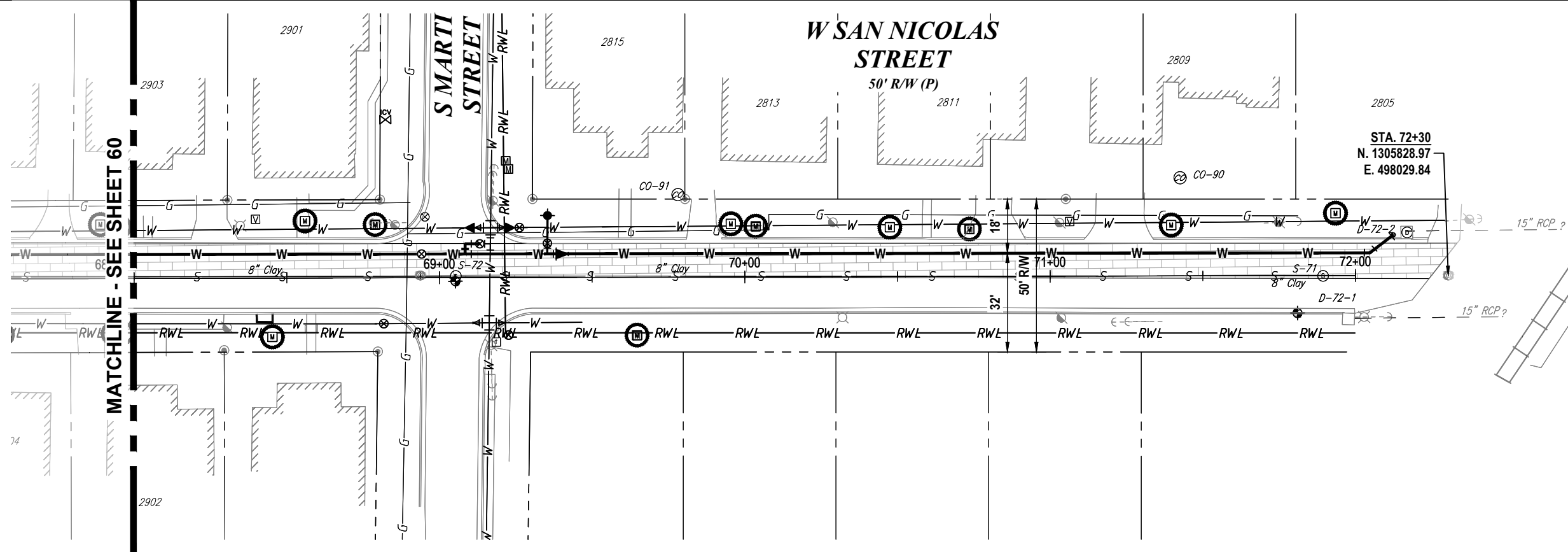
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DATE	06/04/2019

PALMA CEIA PHASE III
 W SAN NICOLAS STREET



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGEJ-10/K10	SHEET 60 OF 90

K:\Projects\WTR\18\WTR-18-0005\Palma Ceia Phase III Water Main Replacement\02-Design\Drawings\01-Dwg\MO & Sampling Stations\02-Sheets\WTR-18-0005-PLANPR2.dwg, Feb. 04, 2021 - 7:22am



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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.	.	.	.	DATE	06/04/2019

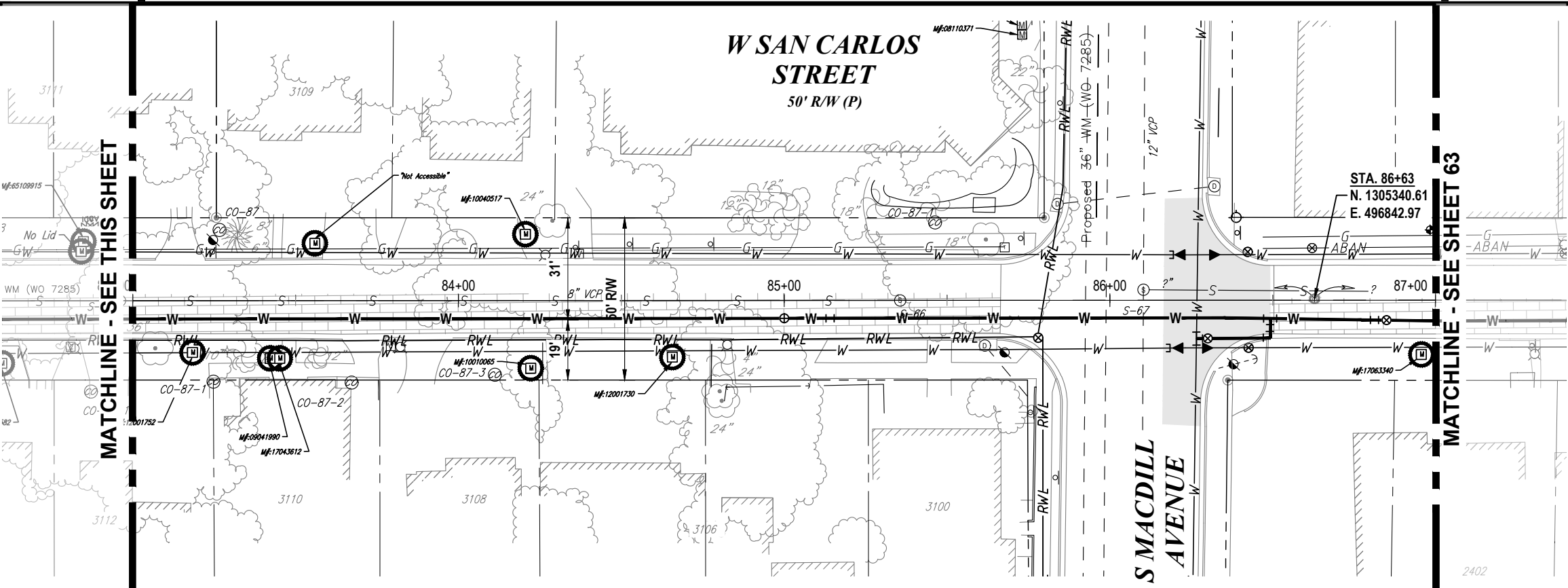
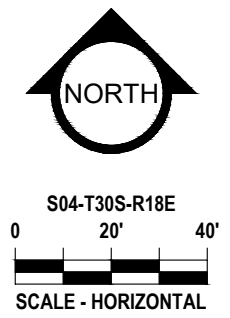
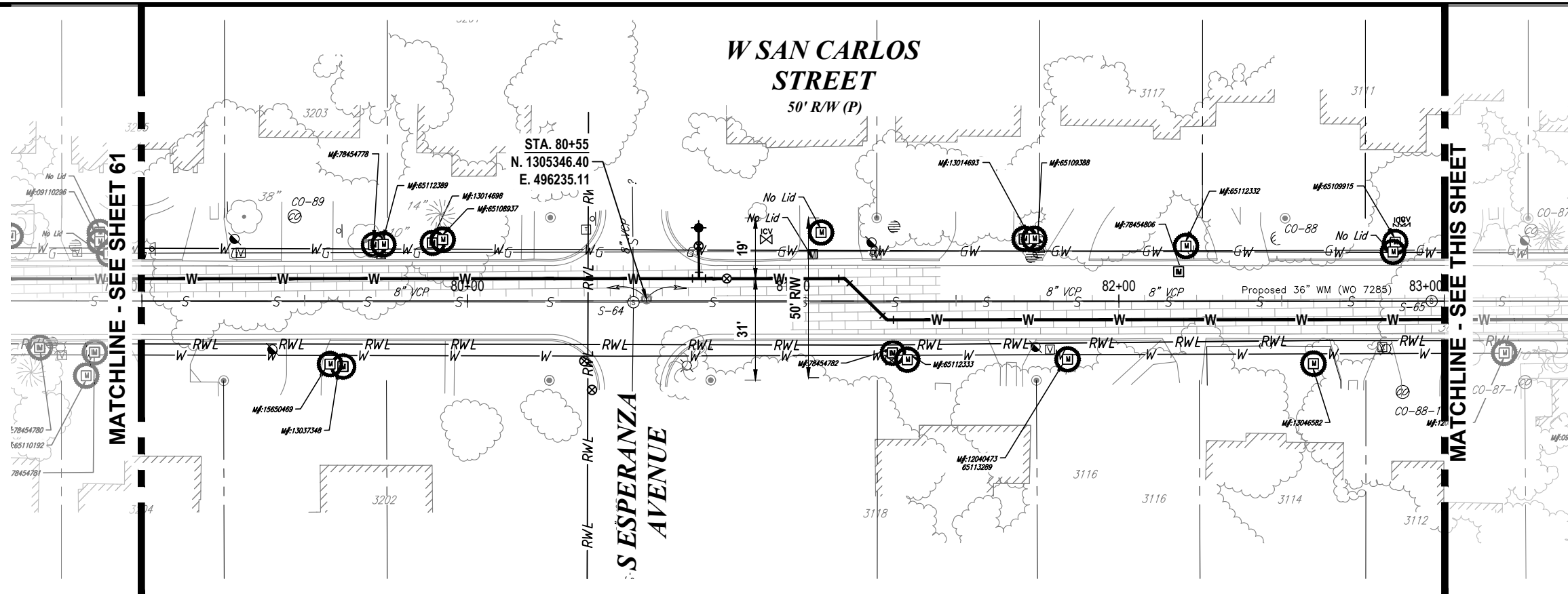
PALMA CEIA PHASE III

W SAN NICOLAS STREET 1



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 61 OF 90

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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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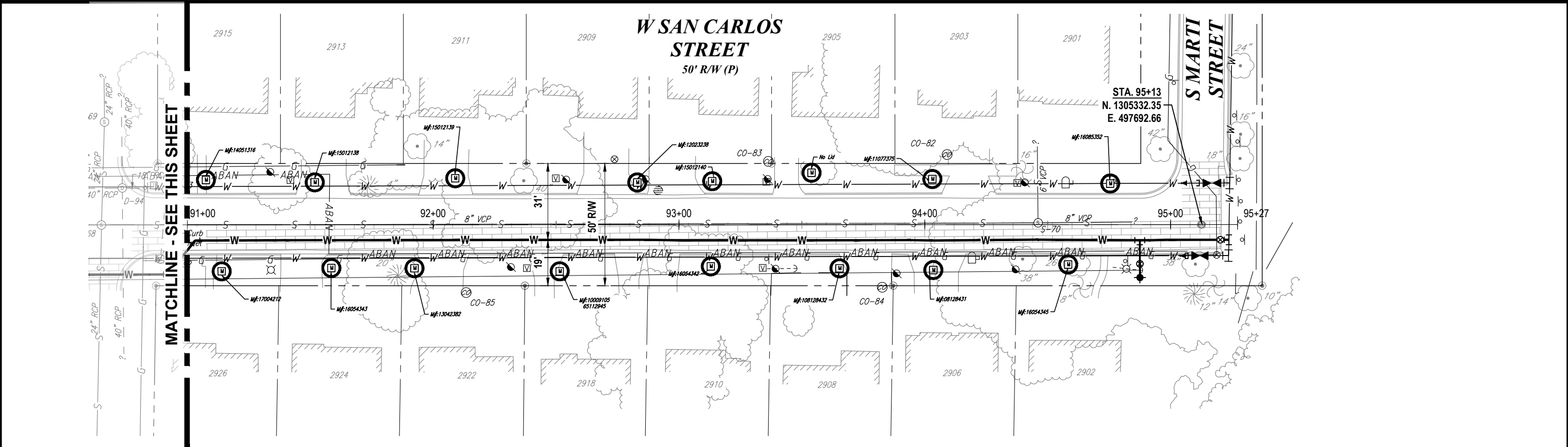
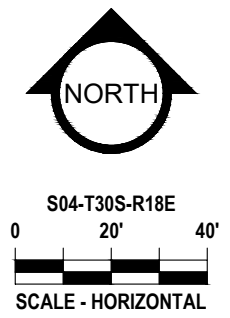
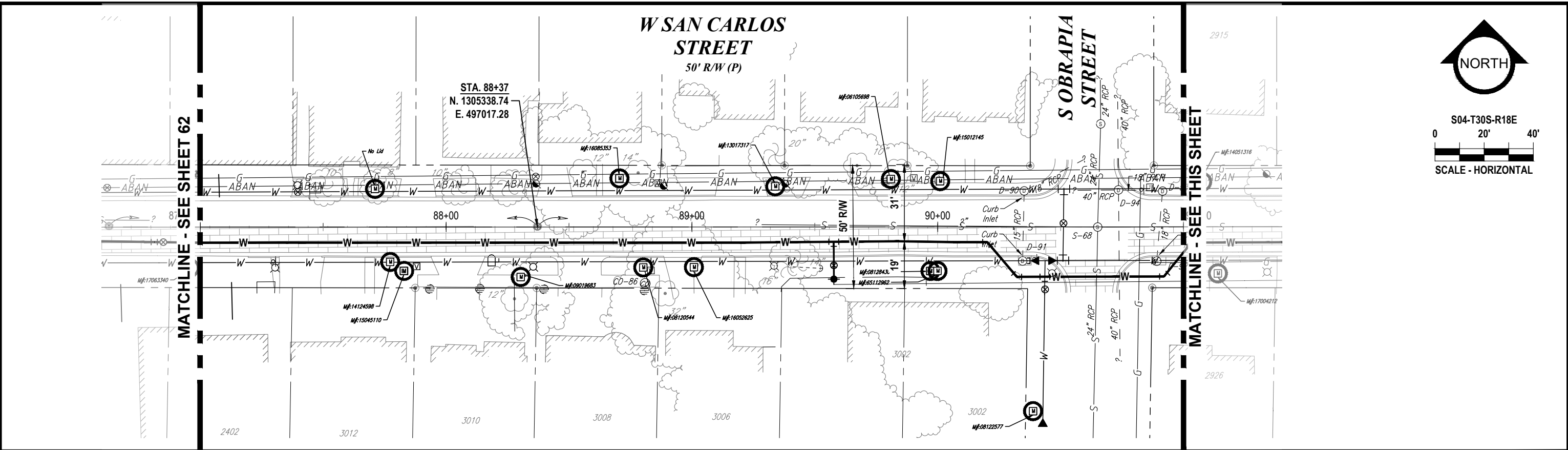
PALMA CEIA PHASE III

W SAN CARLOS STREET



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 62 OF 90

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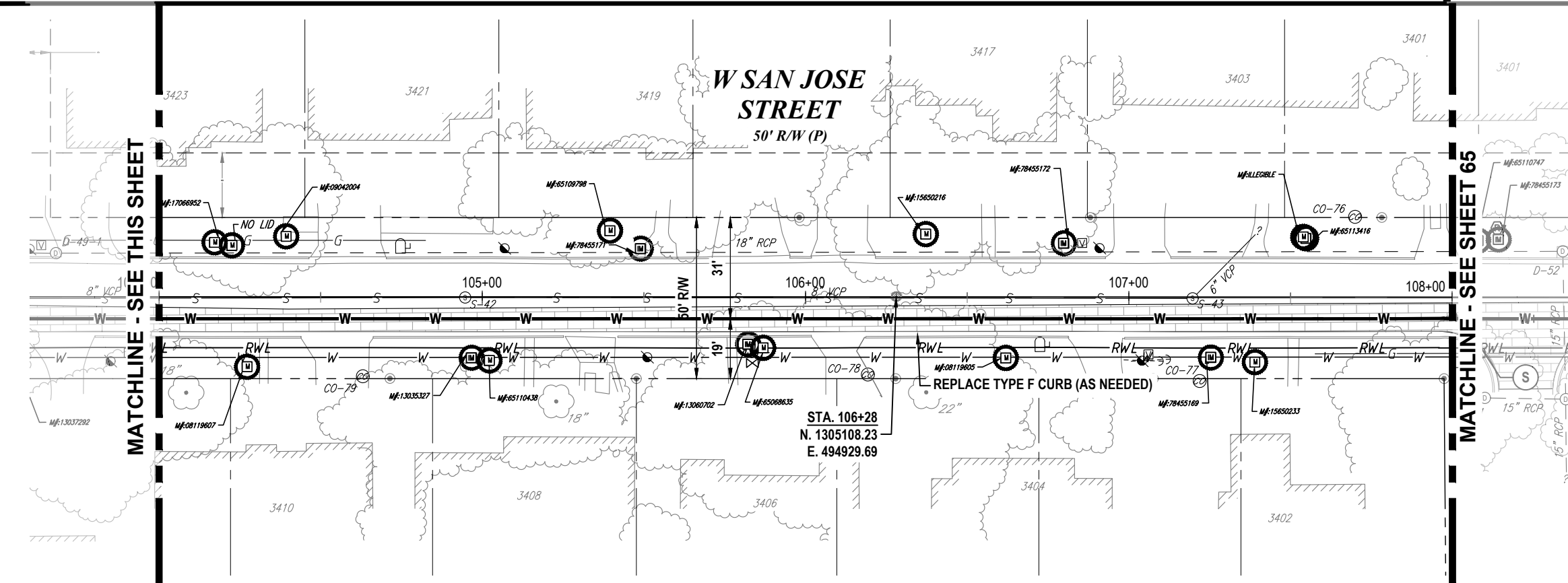
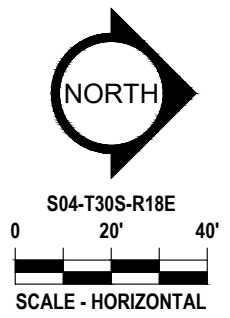
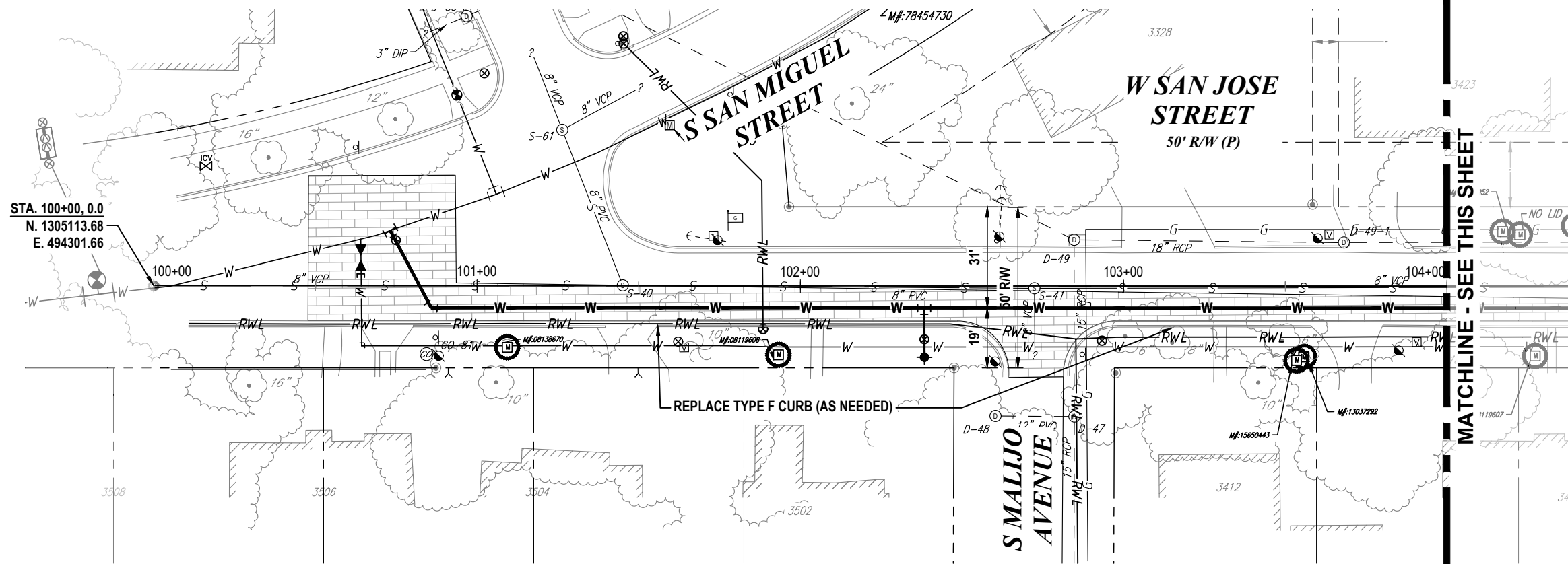
RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

REV. NO.	DATE	DESCRIPTION	BY	DESIGNED	CL
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PALMA CEIA PHASE III
 W SAN CARLOS STREET 1



100% PLANS	
WORK ORDER NO.	WTR-18-0005
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ATLAS PAGE J-10/K10	SHEET 63 OF 90



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
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P.E. #79453

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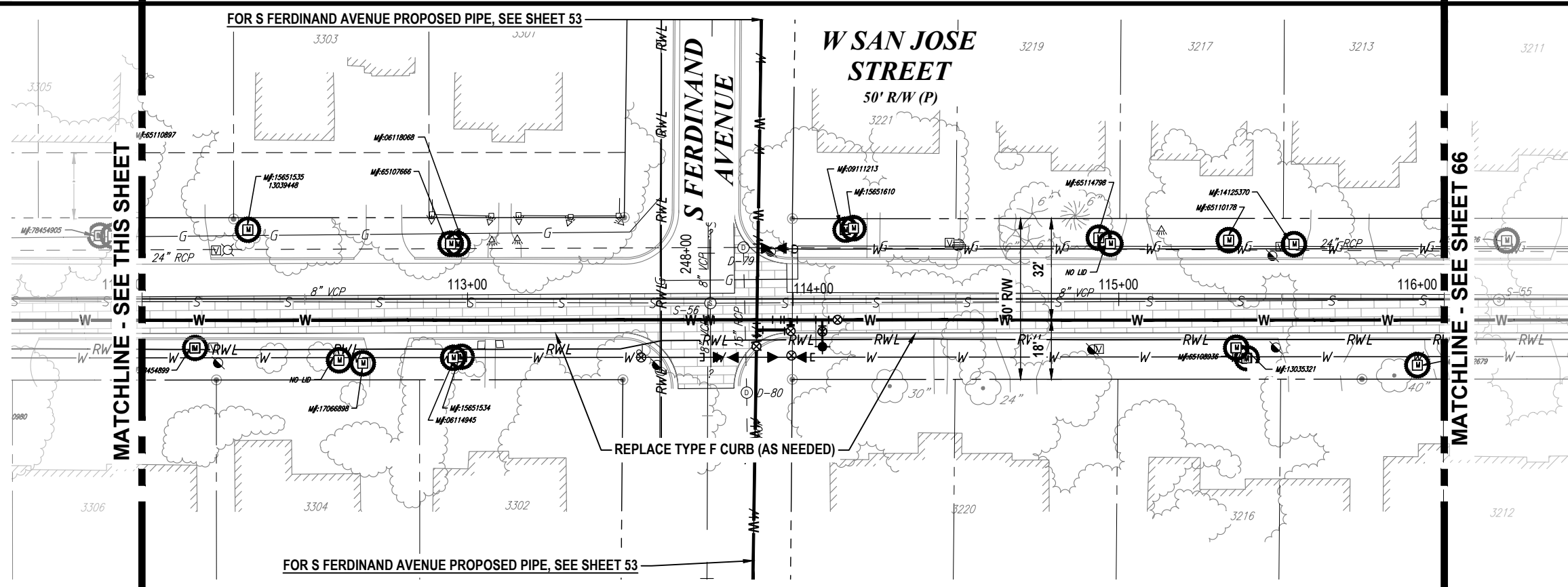
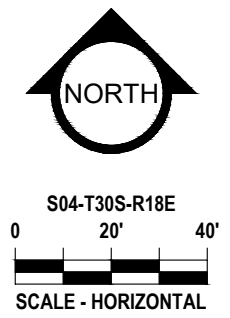
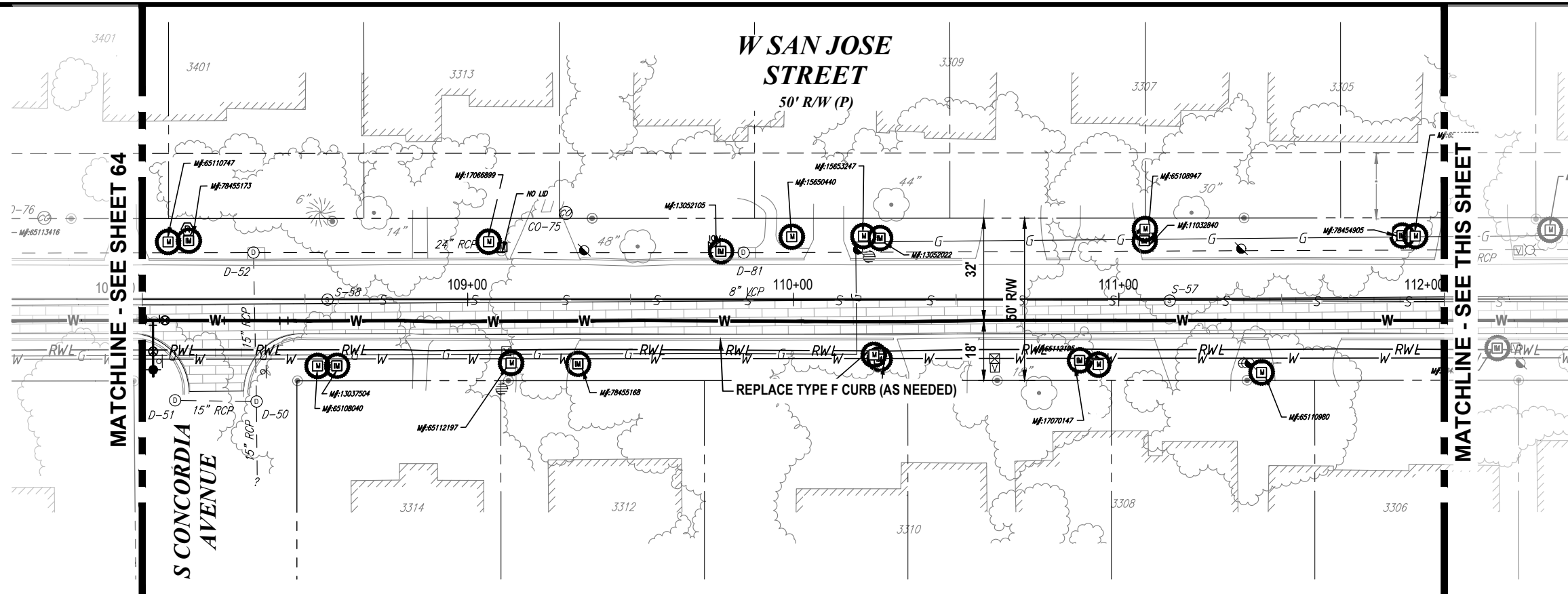
DATE 06/04/2019

PALMA CEIA PHASE III
W SAN CARLOS STREET & W SAN JOSE STREET



100% PLANS
WORK ORDER NO. WTR-18-0005
RECORD DRAWING NO.
ATLAS PAGE J-10/K10 SHEET 64 OF 90

K:\Projects\WTR\FY18\WTR-18-0005\Palma Ceia Phase III Water Main Replacement\02-Design\Drawings\01-Dwg\MO & Sampling Stations\02-Sheets\WTR-18-0005-PLANPRF2.dwg, Feb. 04, 2021 - 7:23am



RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

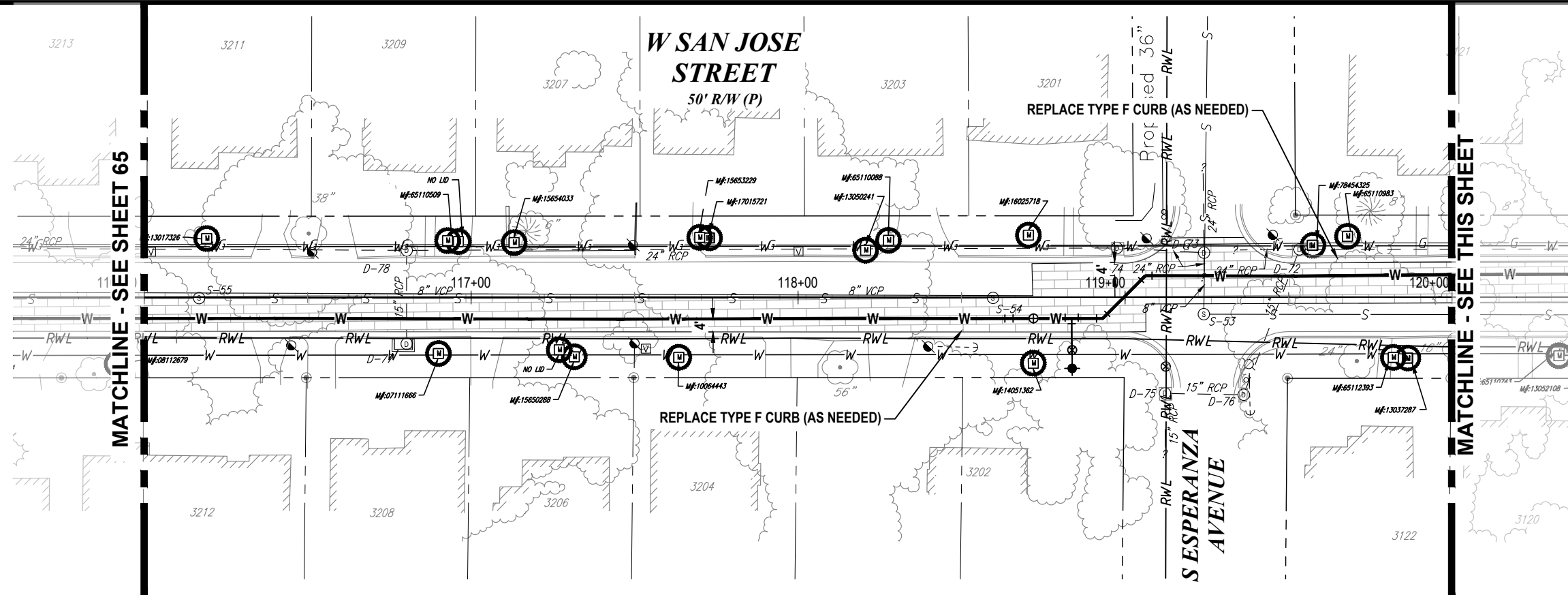
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PALMA CEIA PHASE III
 W SAN JOSE STREET



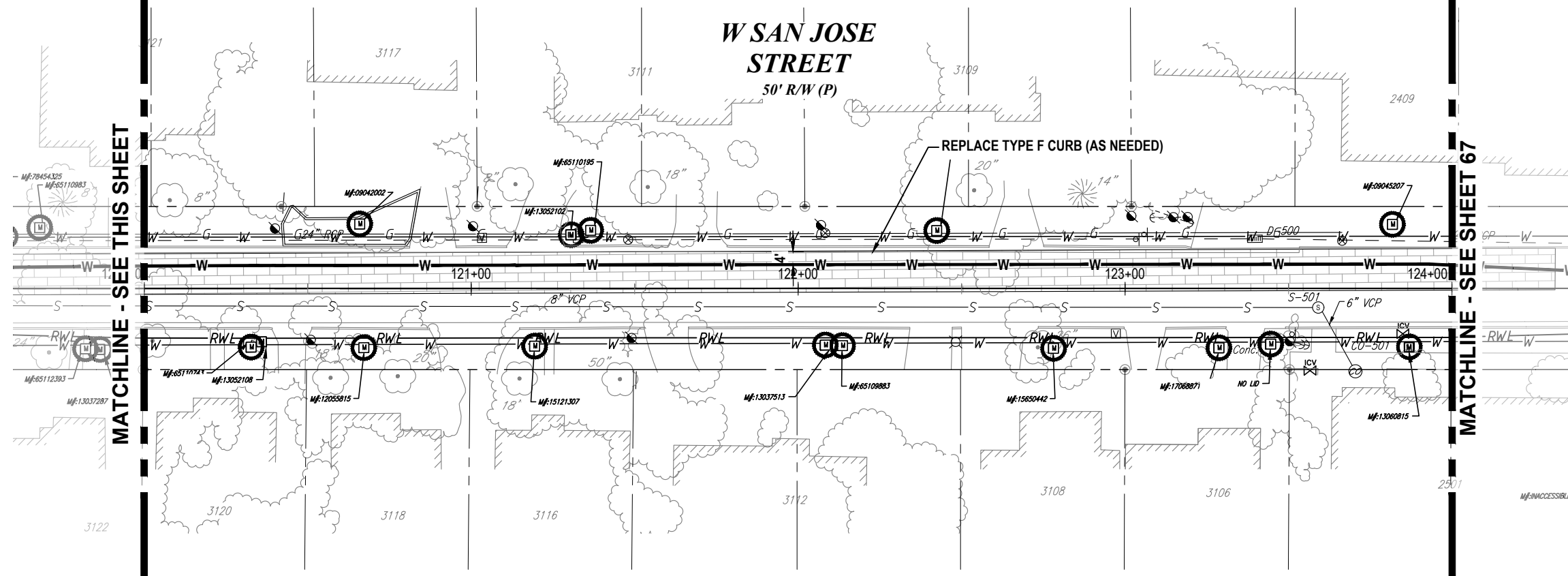
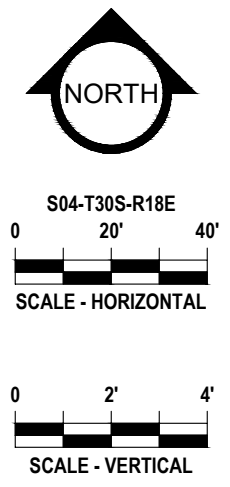
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RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 65 OF 90

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MATCHLINE - SEE SHEET 65

MATCHLINE - SEE THIS SHEET



MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE SHEET 67

RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

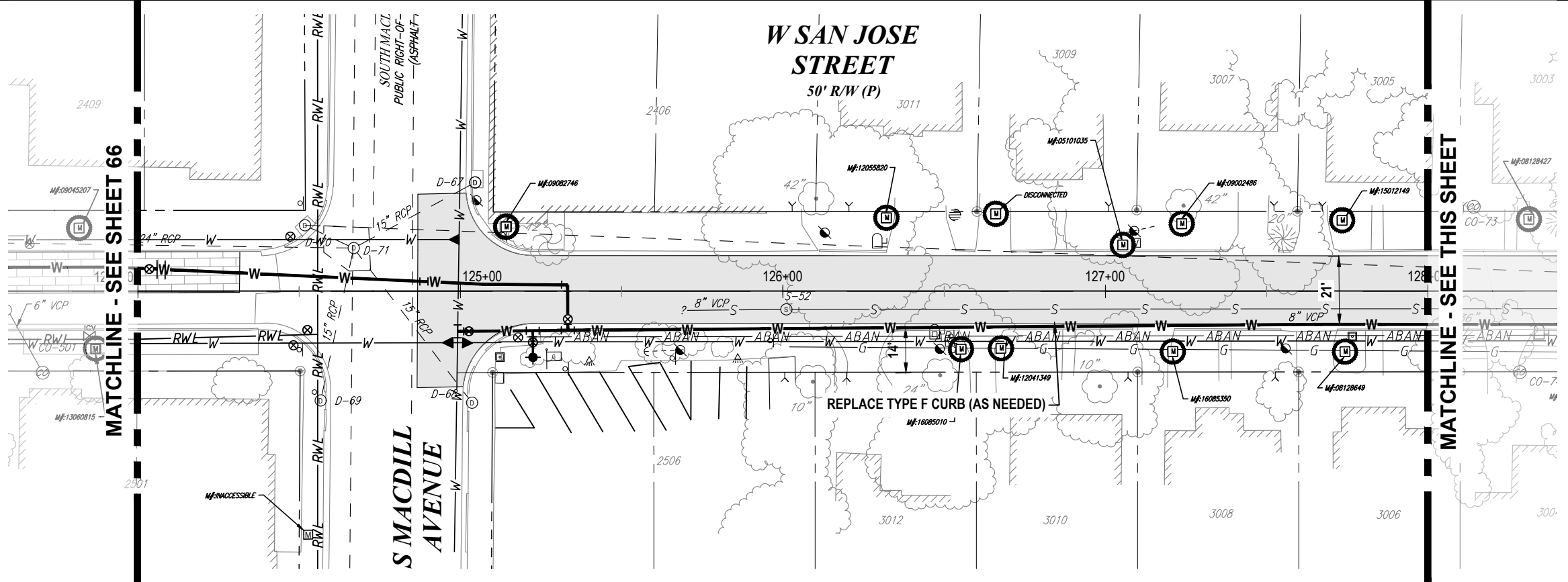
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PALMA CEIA PHASE III
 W JOSE STREET 1



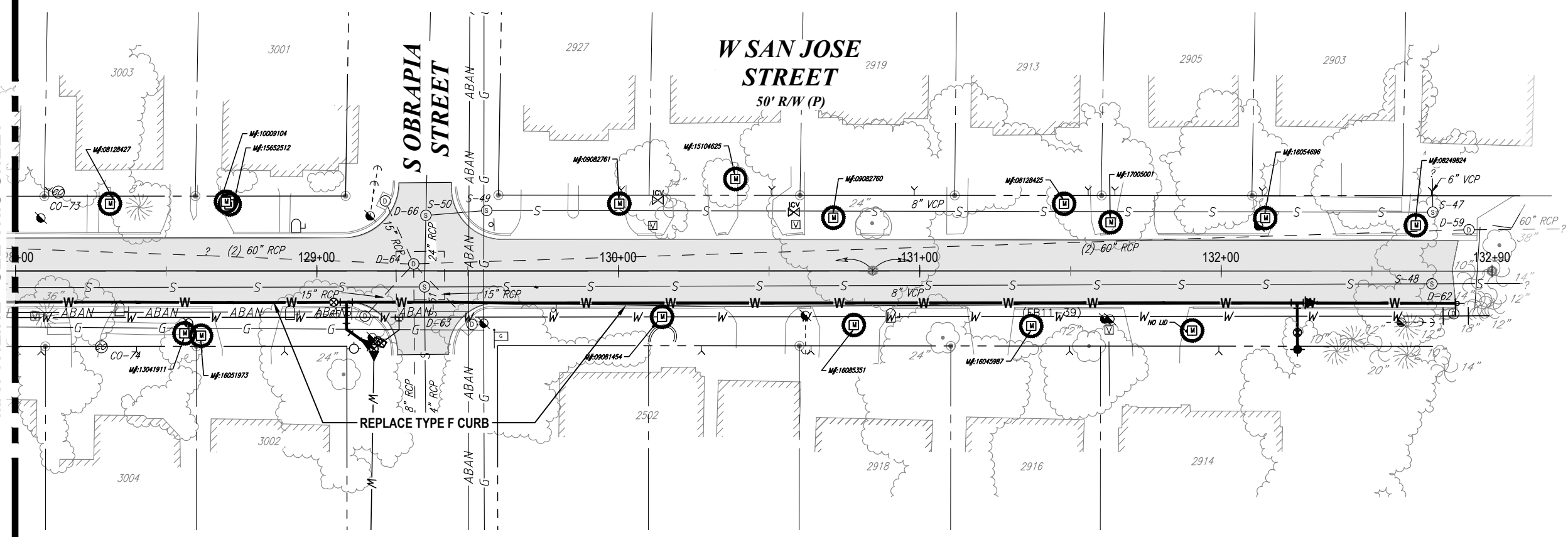
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WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 66 OF 90

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S04-T30S-R18E
0 20' 40'
SCALE - HORIZONTAL

0 2' 4'
SCALE - VERTICAL



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

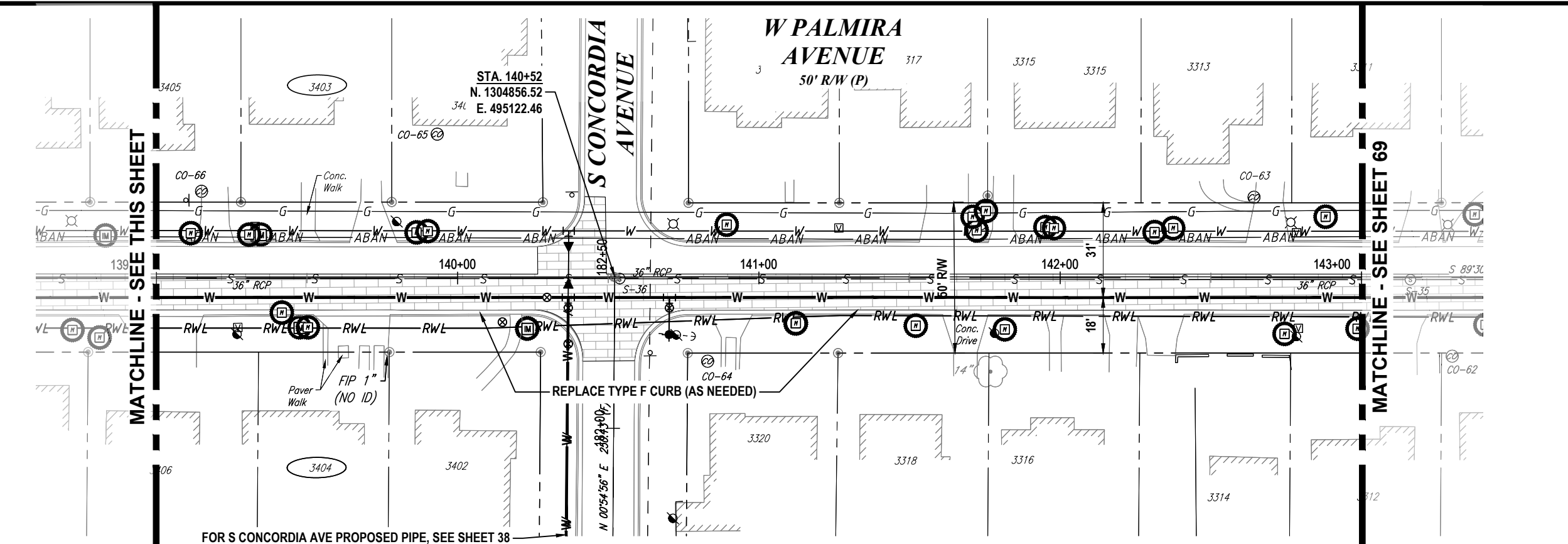
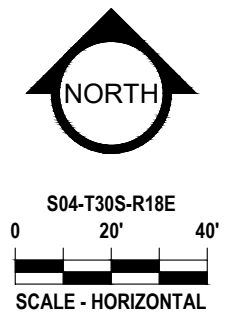
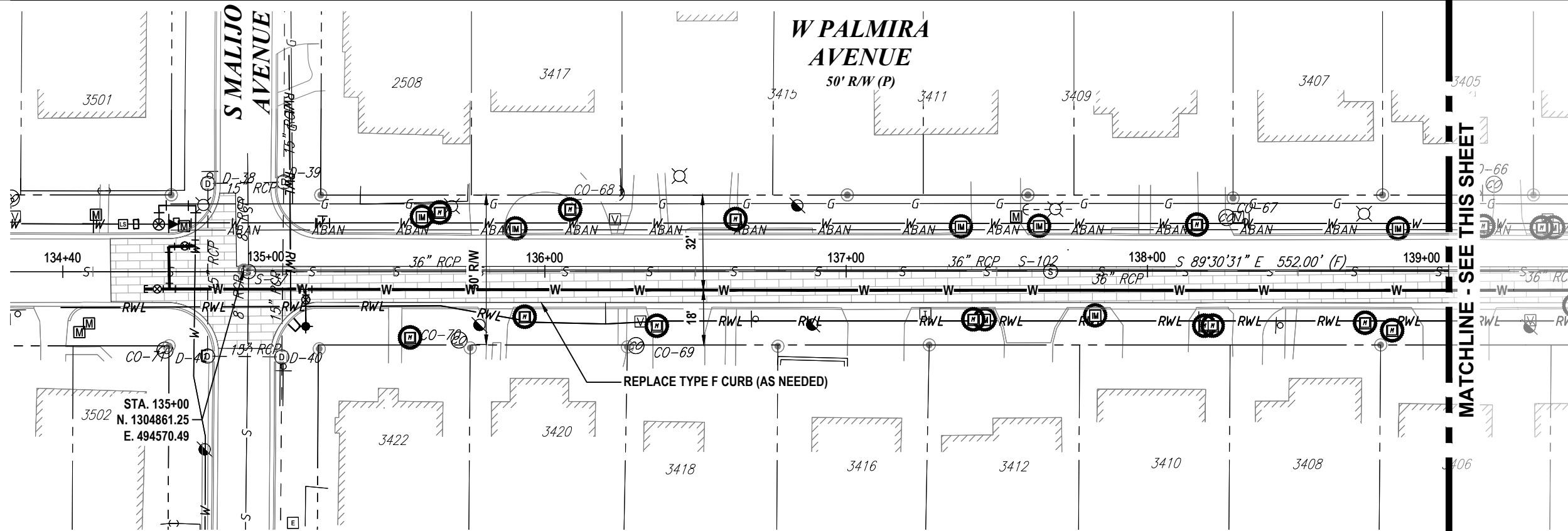
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PALMA CEIA PHASE III

W SAN JOSE STREET 2



100% PLANS
WORK ORDER NO. WTR-18-0005
RECORD DRAWING NO.
ATLAS PAGE J-10/K10 SHEET 67 OF 90



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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CHECKED	RAJ
DATE	06/04/2019

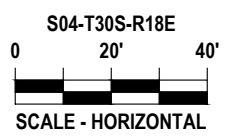
PALMA CEIA PHASE III
W PALMIRA AVENUE



100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 68 OF 90

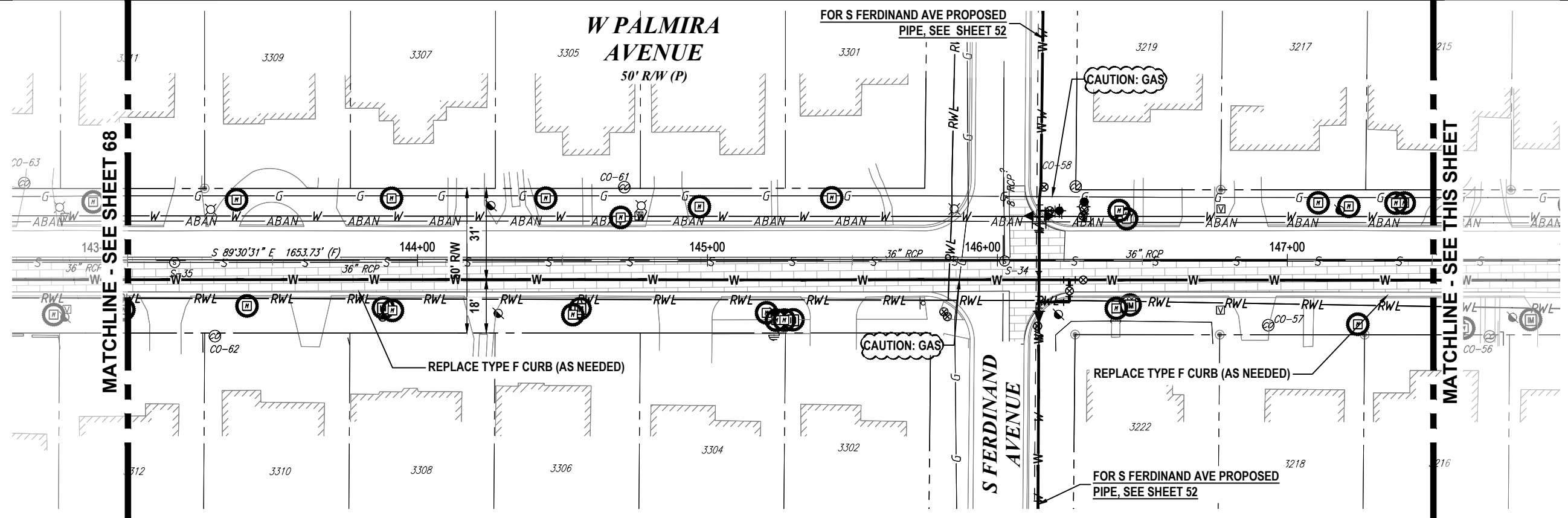
W PALMIRA AVENUE
50' R/W (P)

FOR S FERDINAND AVE PROPOSED PIPE, SEE SHEET 52



MATCHLINE - SEE SHEET 68

MATCHLINE - SEE THIS SHEET

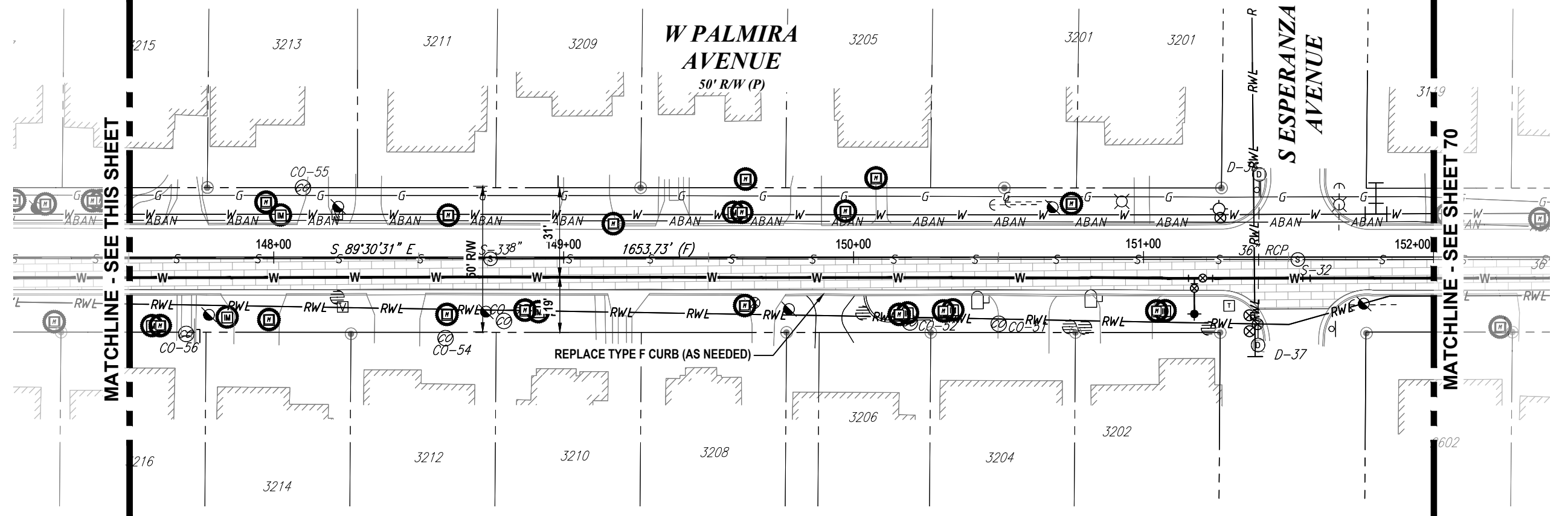


W PALMIRA AVENUE
50' R/W (P)

S ESPERANZA AVENUE

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE SHEET 70



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CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

W PALMIRA AVENUE 2

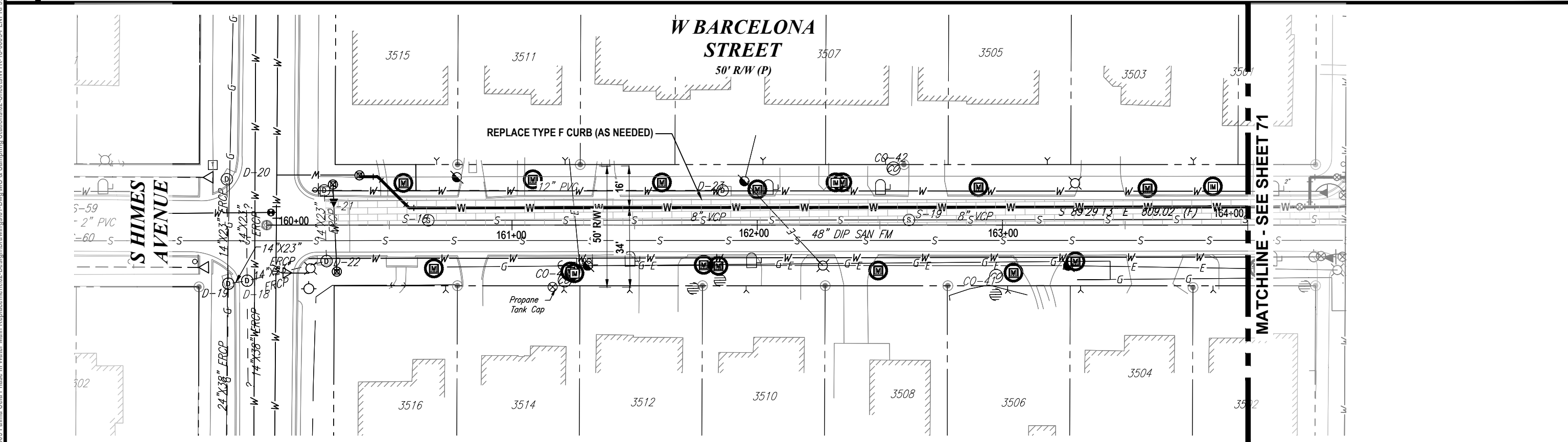
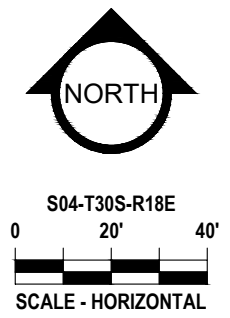
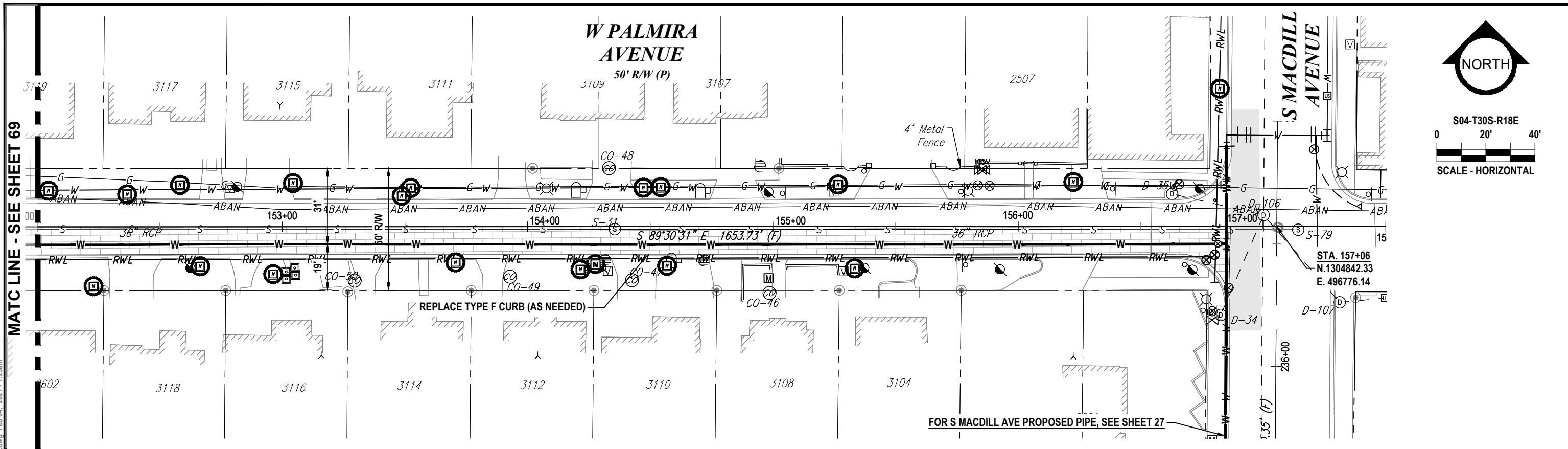


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WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGE J-10/K10	SHEET 69 OF 90

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MATCH LINE - SEE SHEET 69

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MATCHLINE - SEE SHEET 71

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 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
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 P.E. #79453

REV NO.	DATE	DESCRIPTION	BY

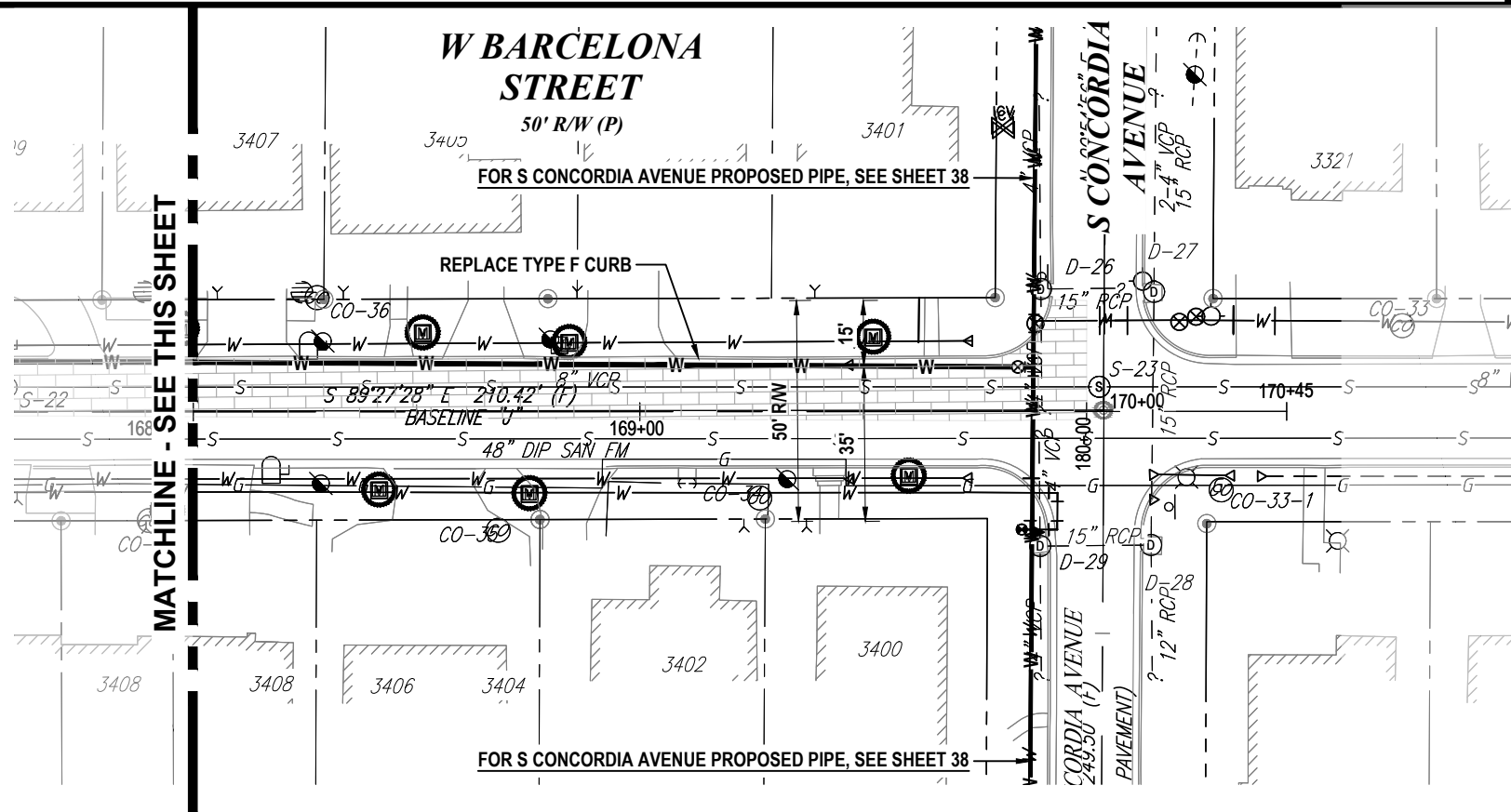
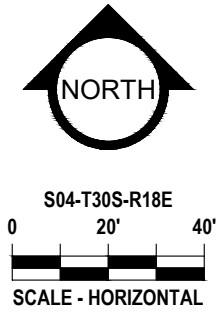
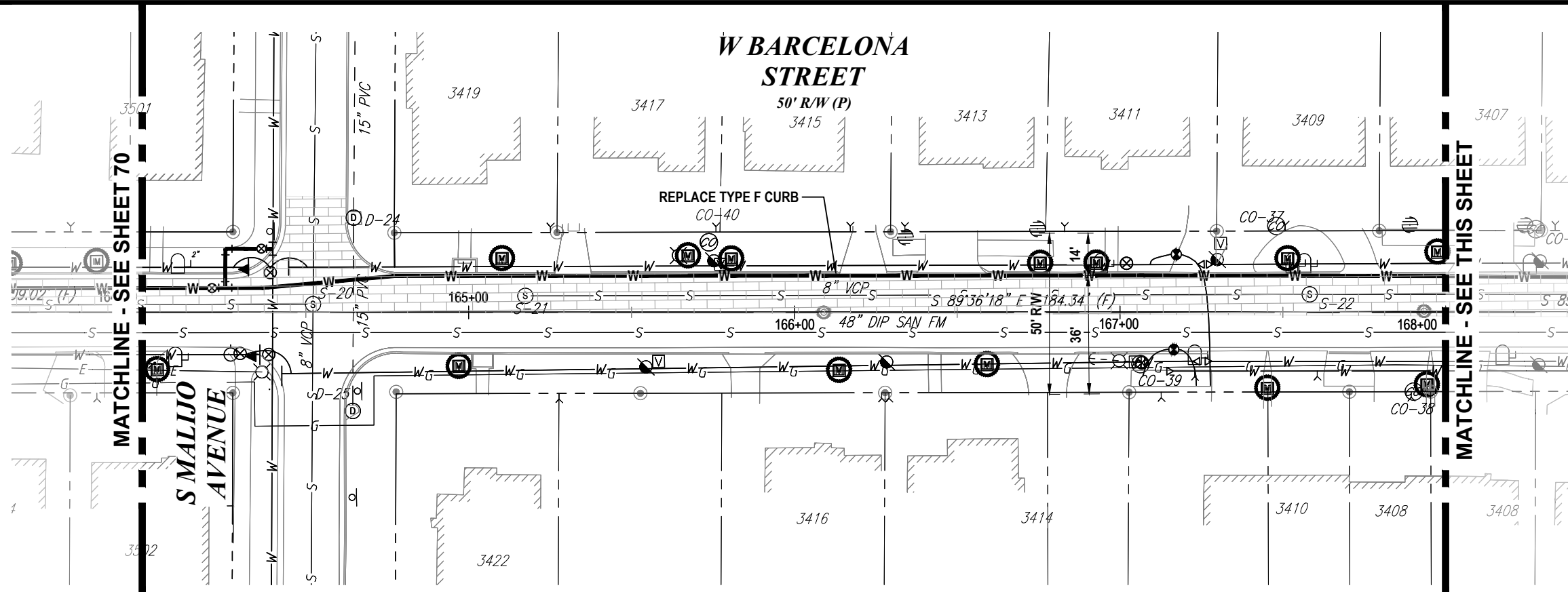
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DATE	06/04/2019

PALMA CEIA PHASE III
 W PALMIRA AVENUE 3



100% PLANS	
WORK ORDER NO.	WTR-18-0005
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PALMA CEIA PHASE III

W BARCELONA STREET



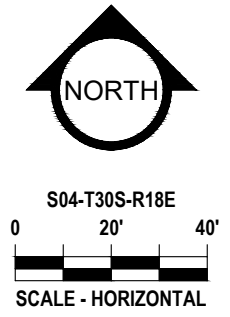
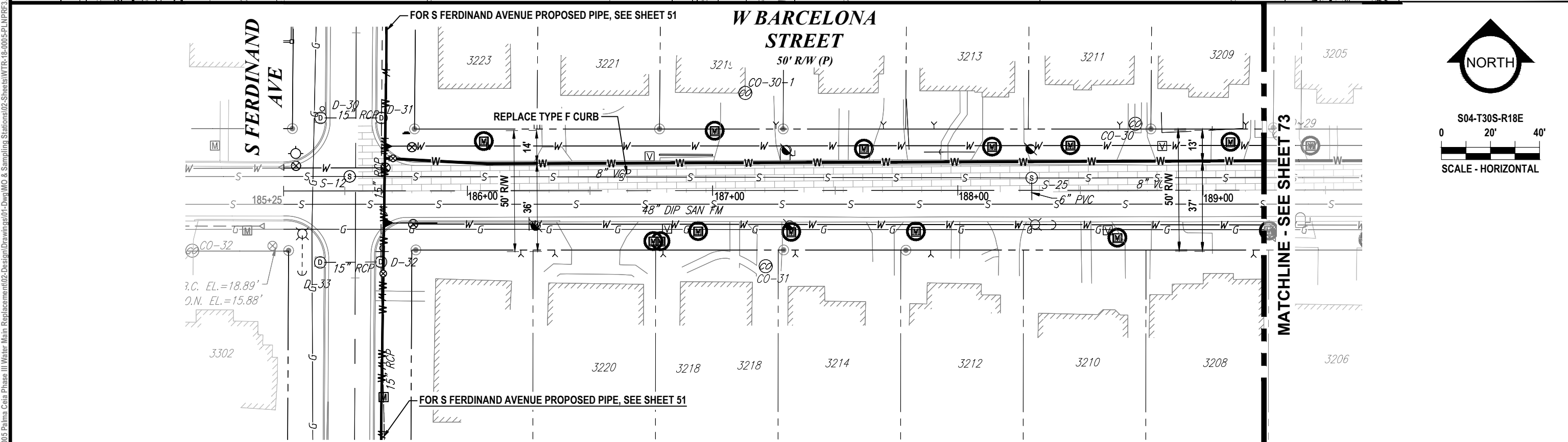
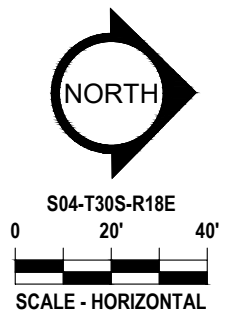
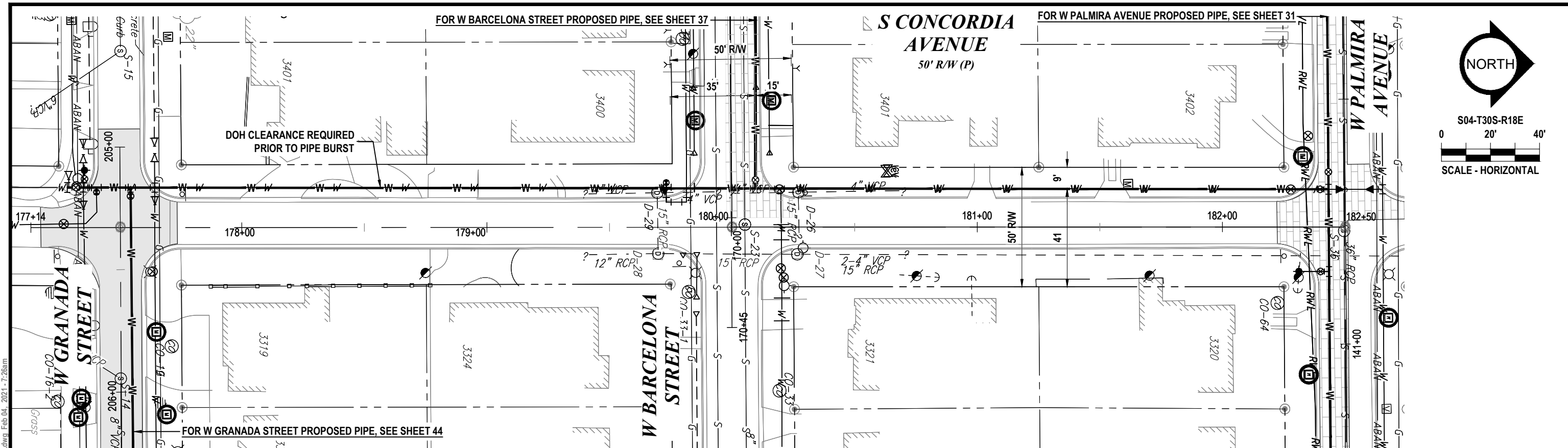
100% PLANS

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DATE 06/04/2019

PALMA CEIA PHASE III
 S CONCORDIA AVENUE & W BARCELONA STREET 1

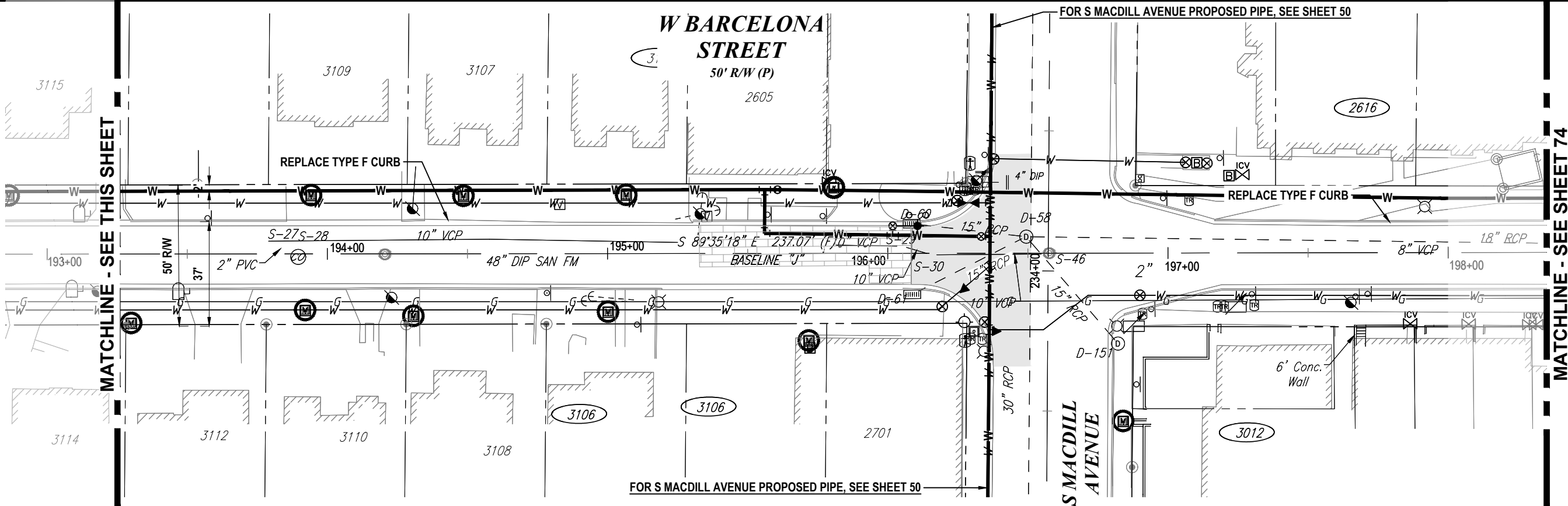
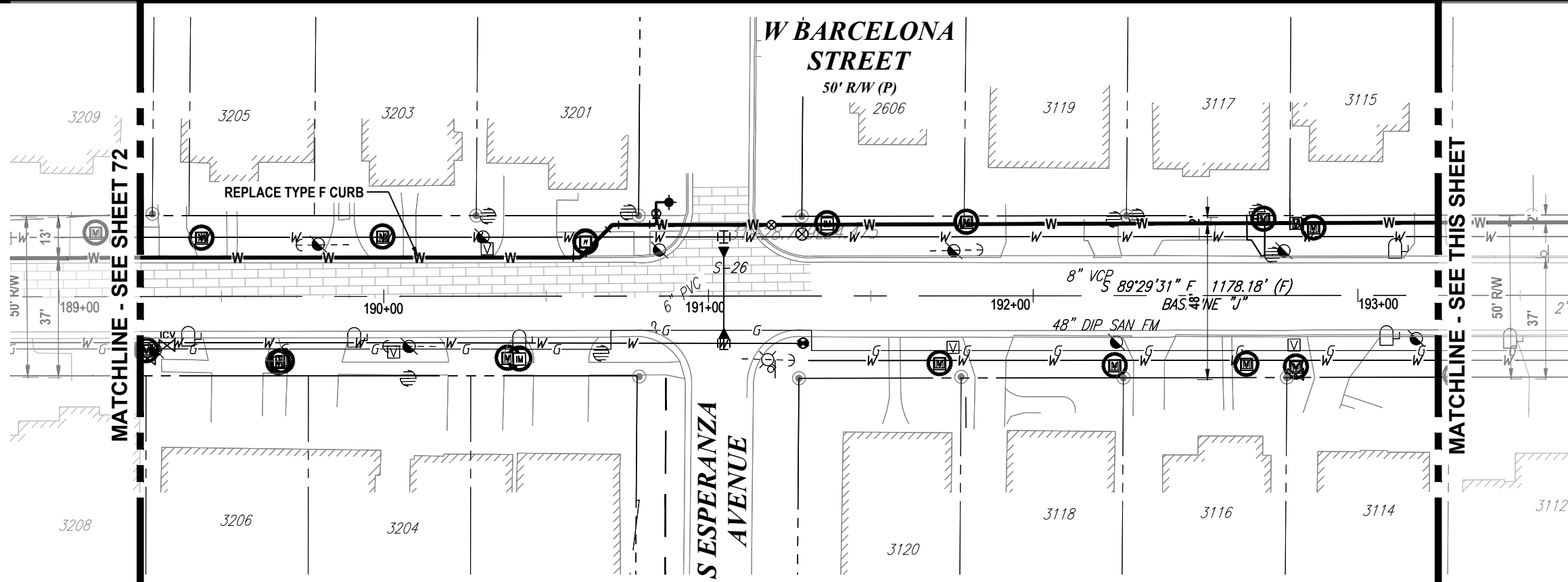


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S04-T30S-R18E
 0 20' 40'
 SCALE - HORIZONTAL



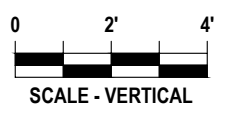
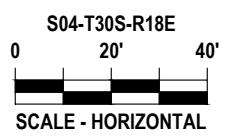
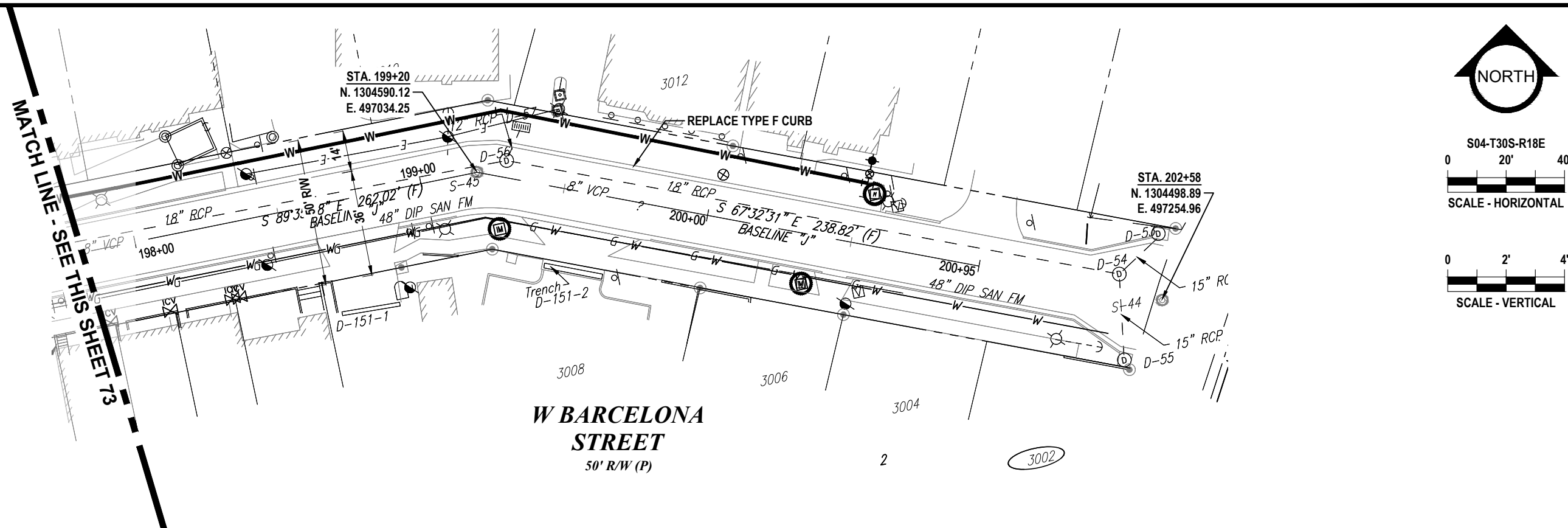
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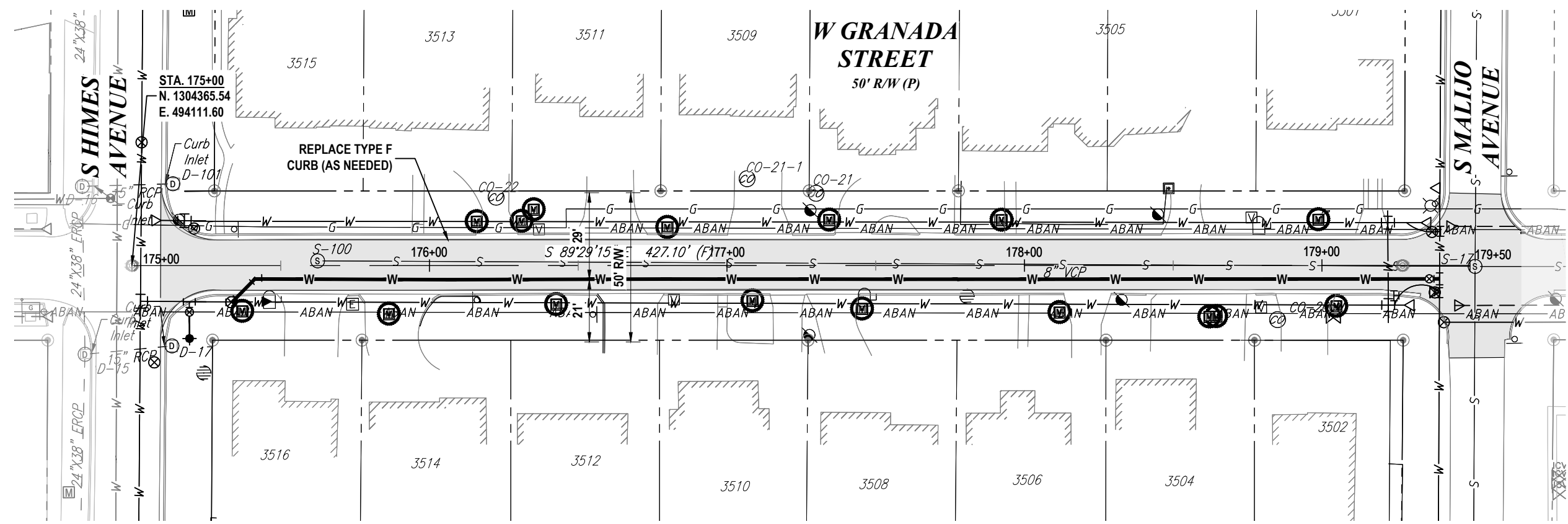
PALMA CEIA PHASE III
 W BARCELONA STREET 2



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W BARCELONA STREET
50' R/W (P)



W GRANADA STREET
50' R/W (P)

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306 E. JACKSON ST., 5E
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PALMA CEIA PHASE III

W BARCELONA STREET 3 & W GRANADA ST



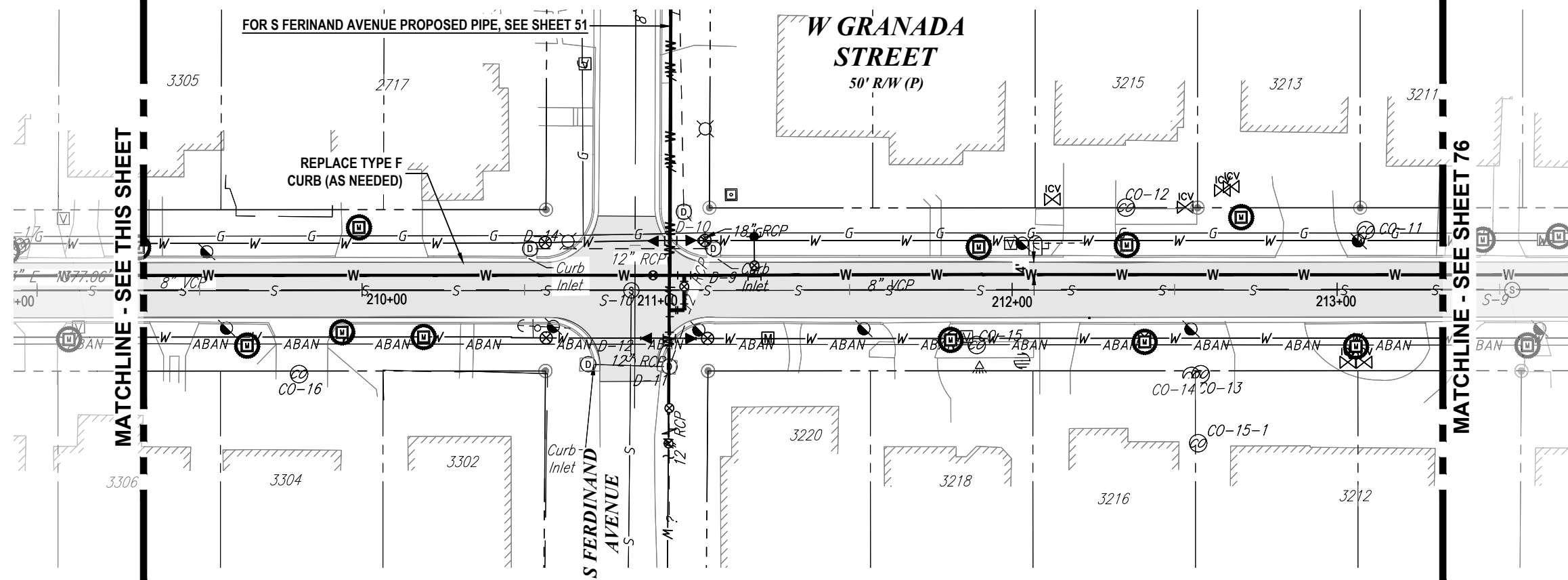
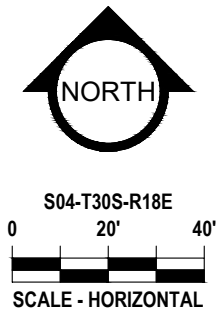
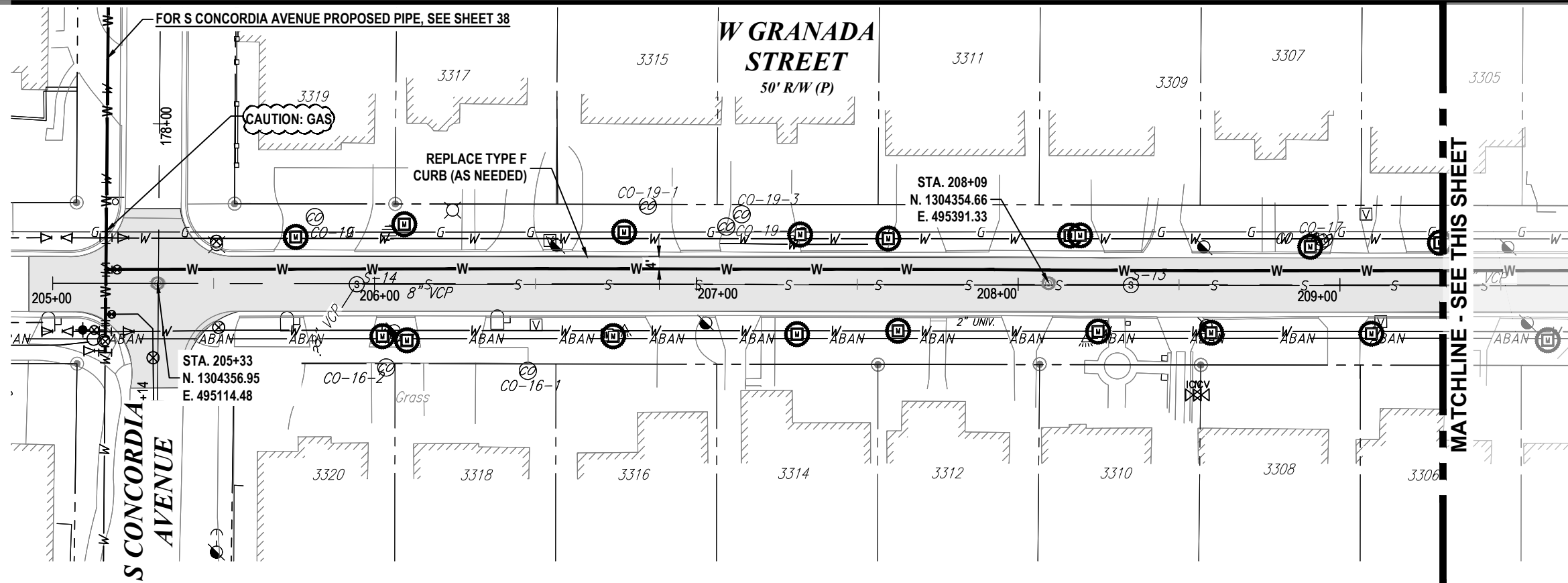
100% PLANS

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RECORD DRAWING NO.

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MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE SHEET 76

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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

W GRANADA STREET



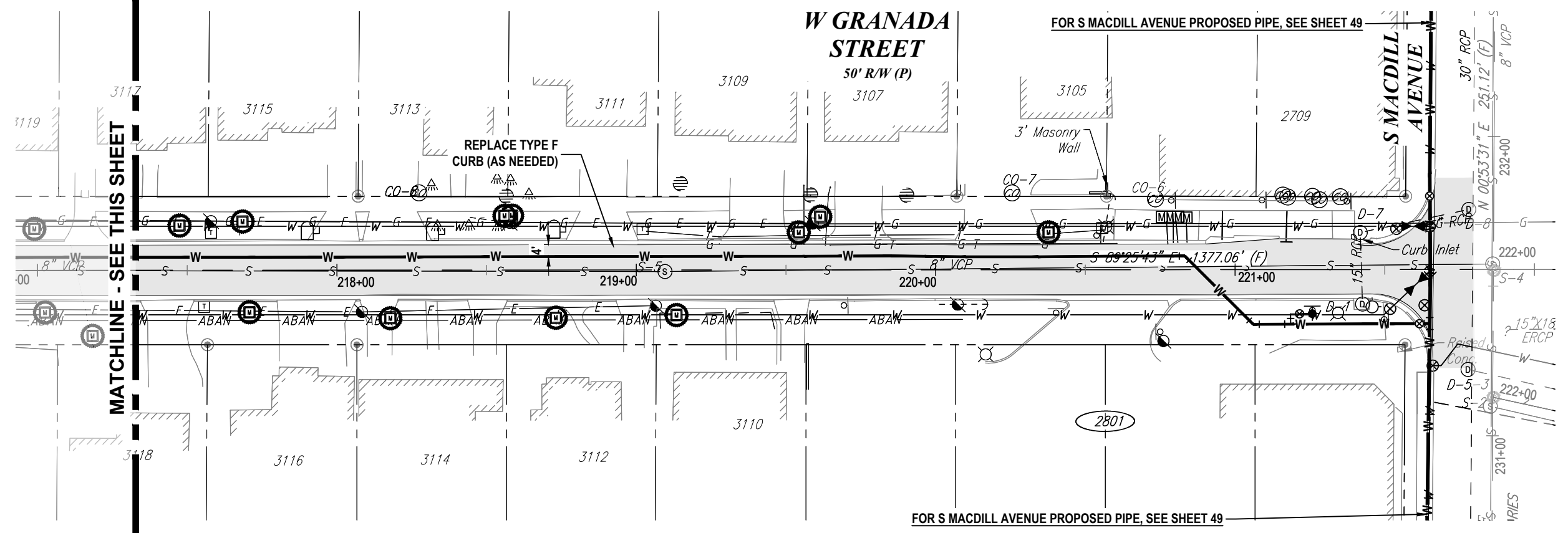
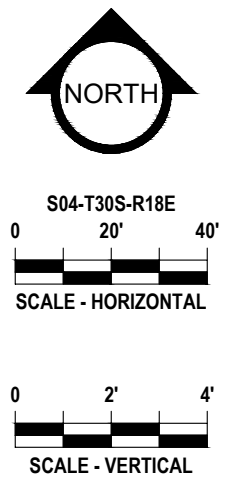
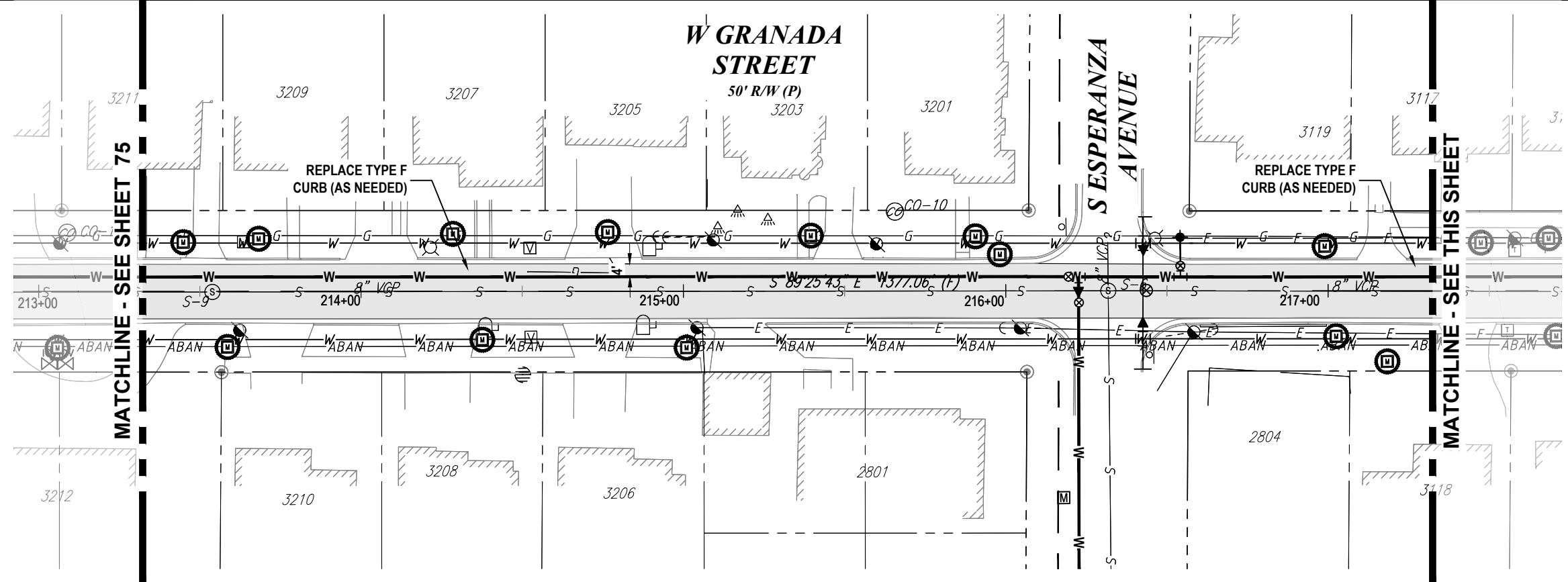
100% PLANS

WORK ORDER NO. WTR-18-0005

RECORD DRAWING NO.

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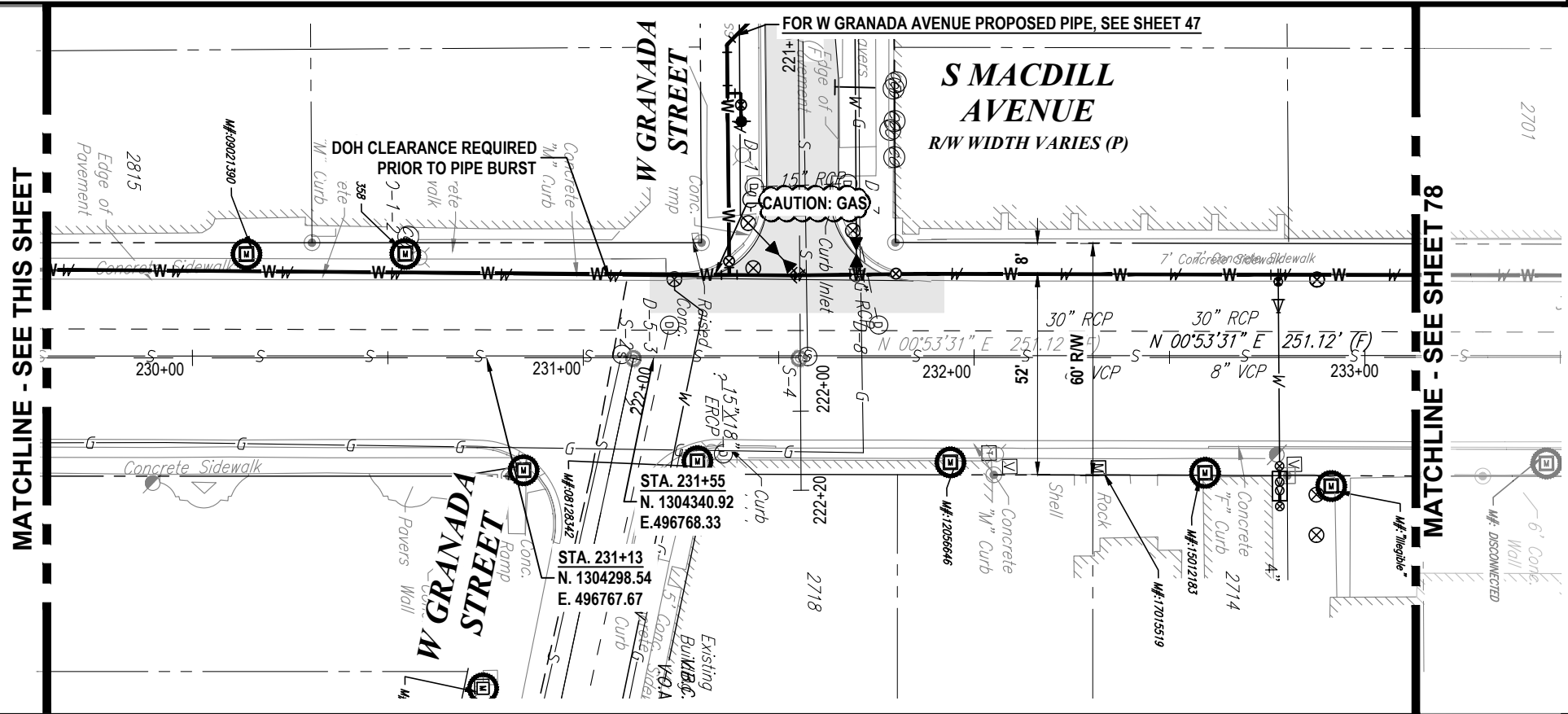
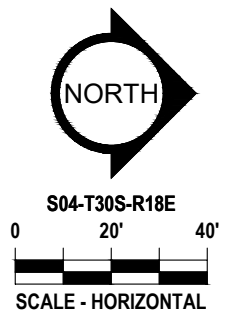
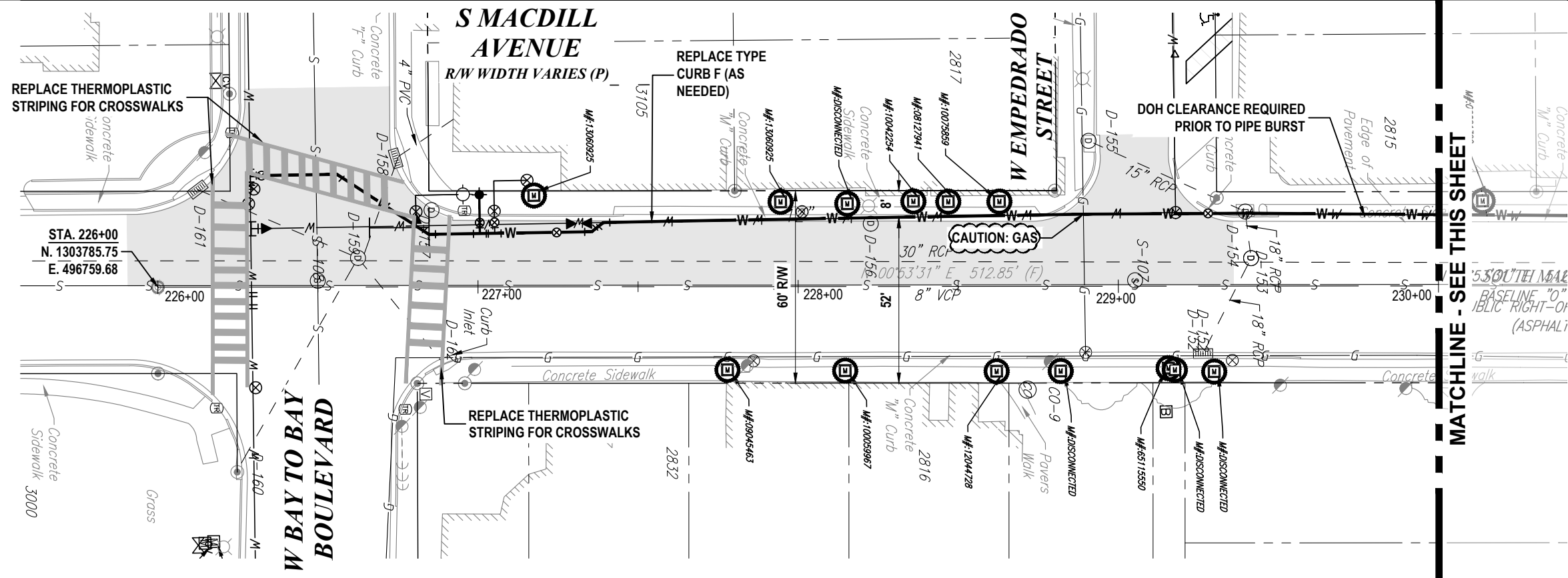
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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III
 W GRANADA STREET 1



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DATE 06/04/2019

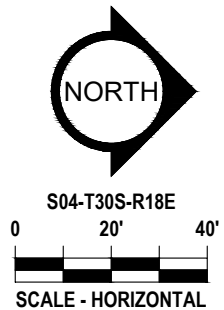
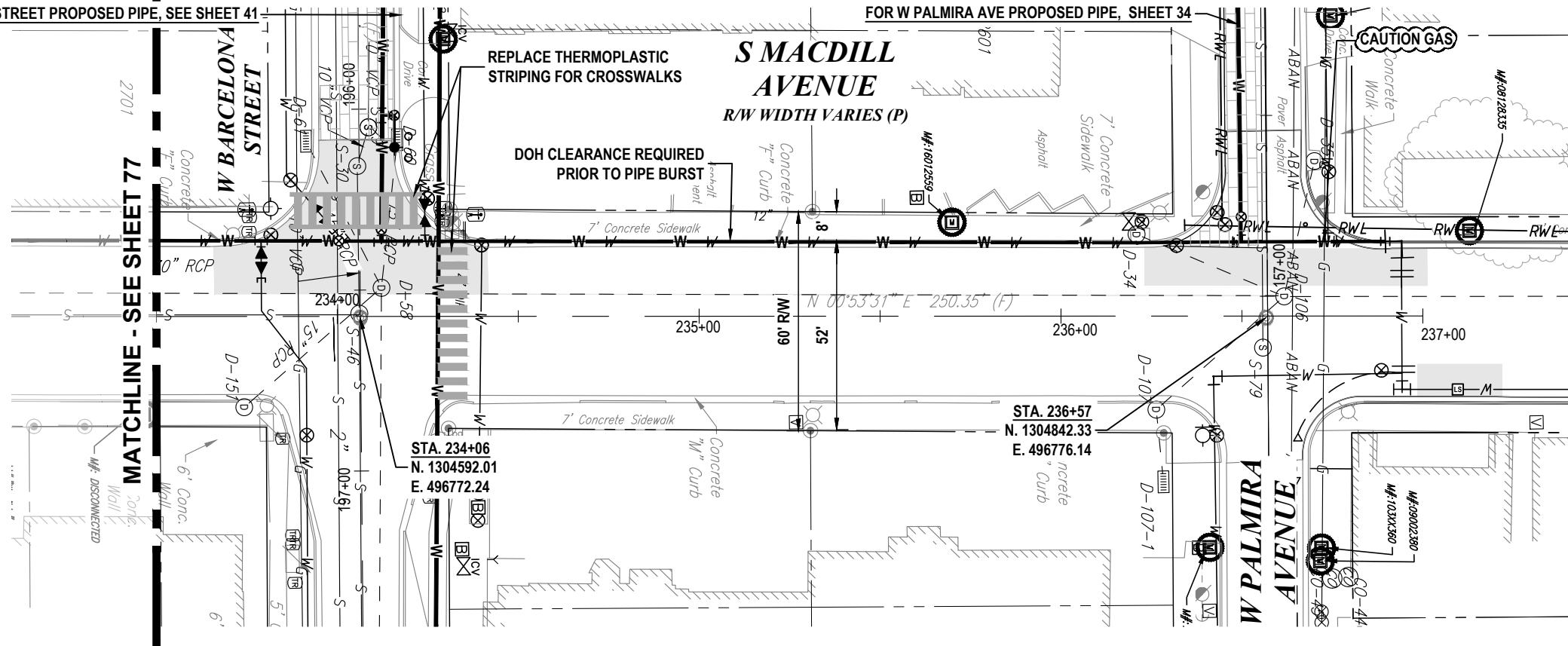
PALMA CEIA PHASE III
S MACDILL AVENUE



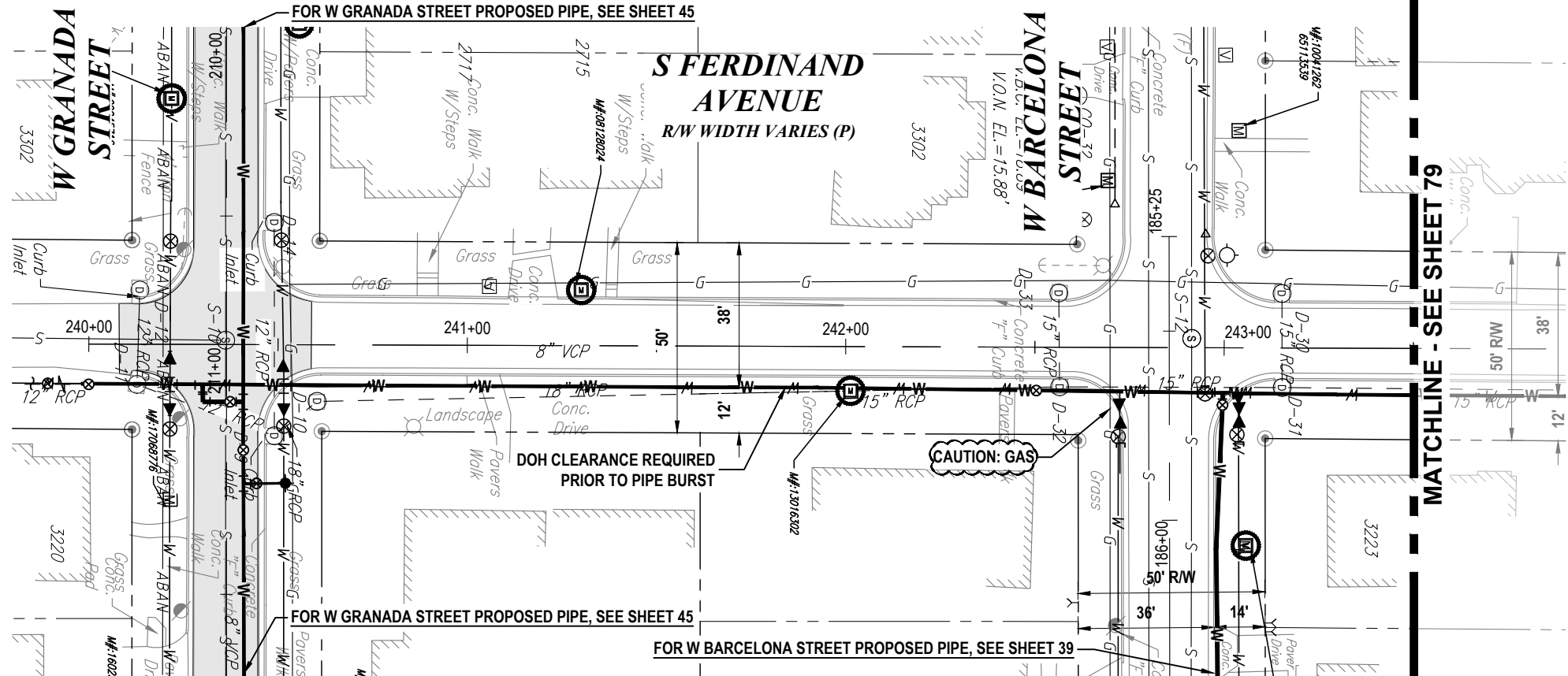
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FOR W BARCELONA STREET PROPOSED PIPE, SEE SHEET 41

FOR W PALMIRA AVE PROPOSED PIPE, SHEET 34



FOR W GRANADA STREET PROPOSED PIPE, SEE SHEET 45



MATCHLINE - SEE SHEET 79

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306 E. JACKSON ST., 5E
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PALMA CEIA PHASE III

S MACDILL AVENUE 1 & S FERSINAND AVENUE



100% PLANS

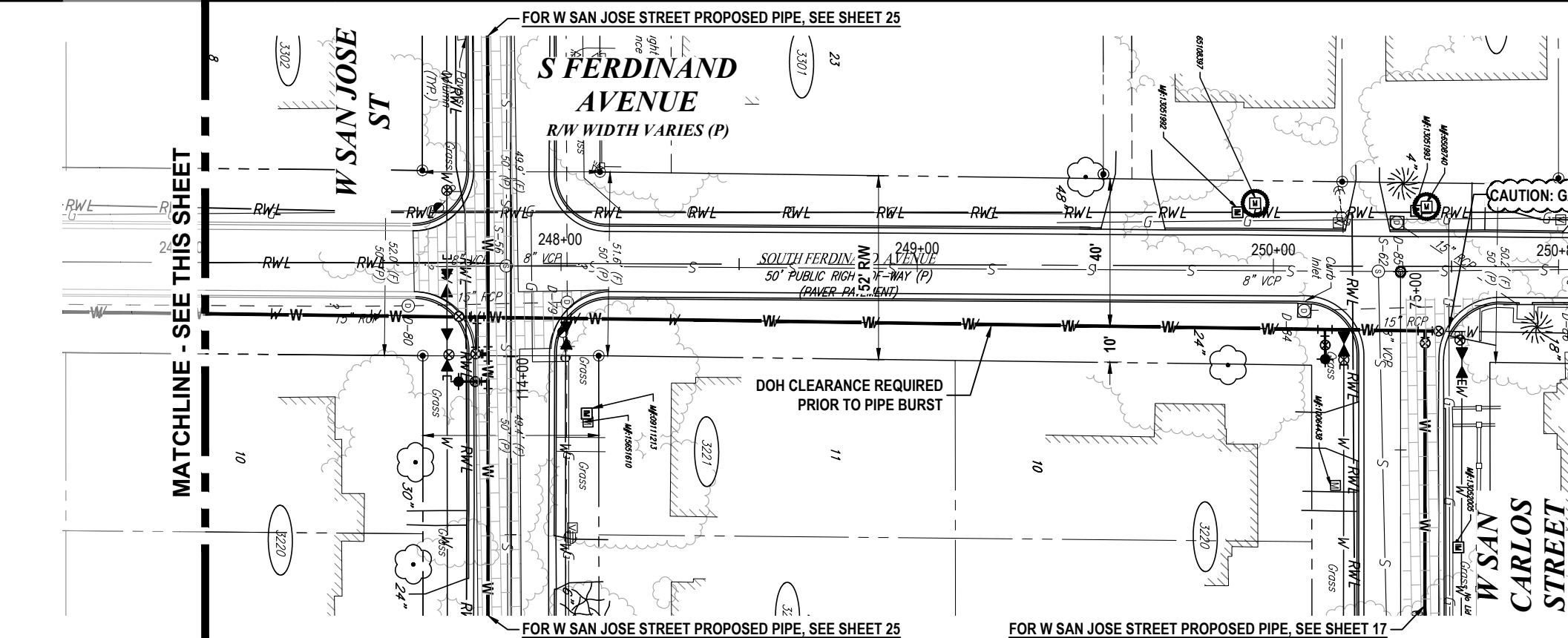
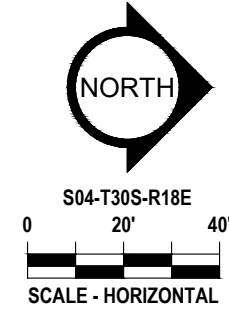
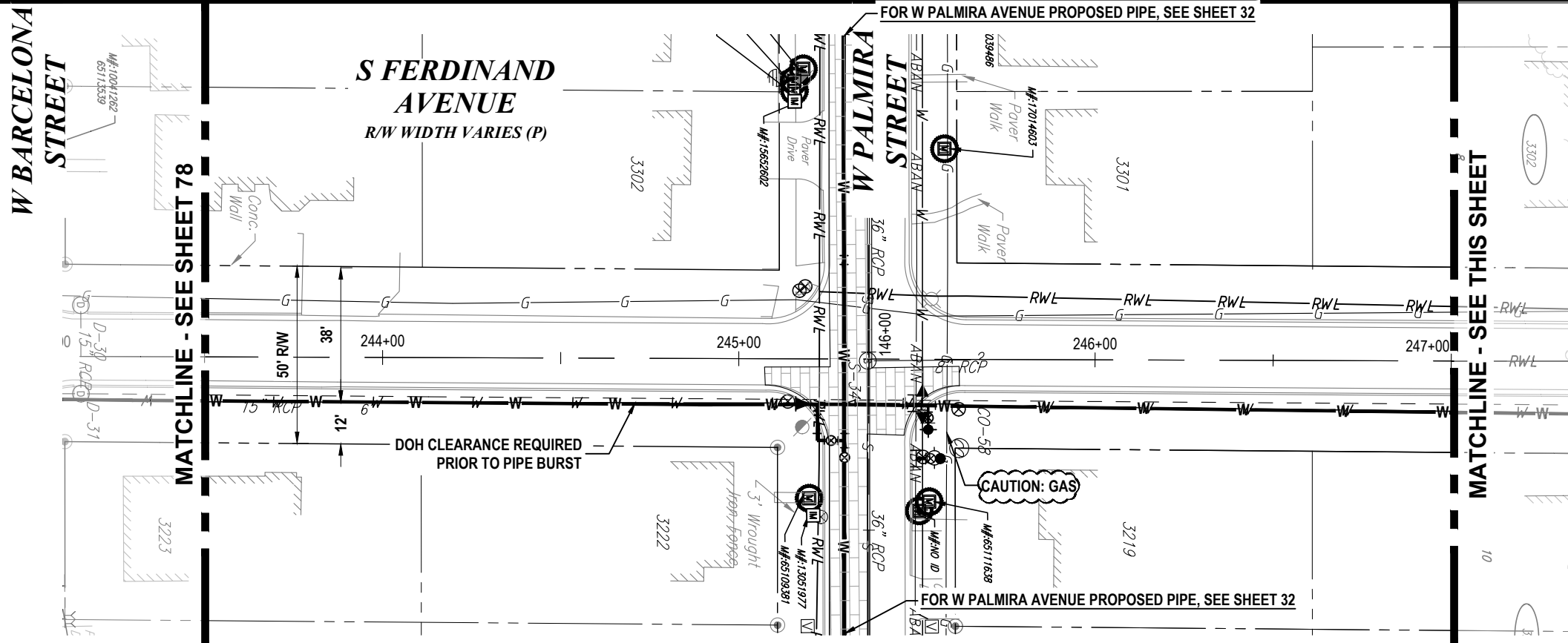
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RECORD DRAWING NO.

ATLAS PAGEJ-10/K10 SHEET 78 OF 90

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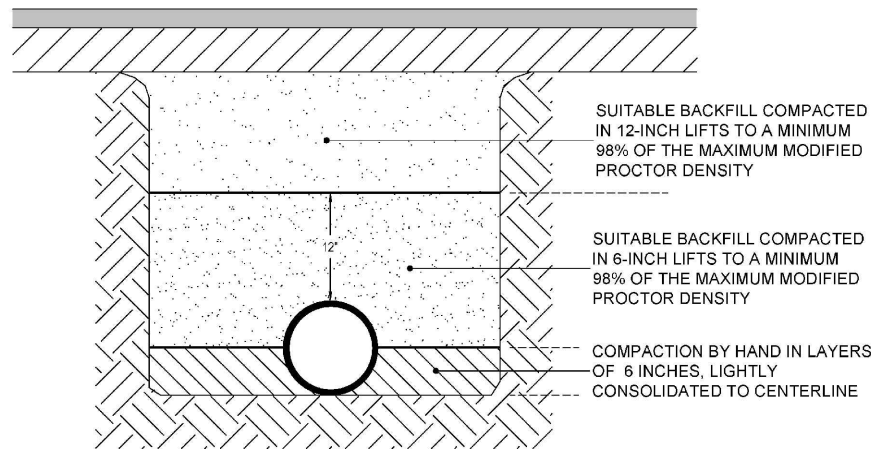
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PALMA CEIA PHASE III
S FERDINAND AVENUE



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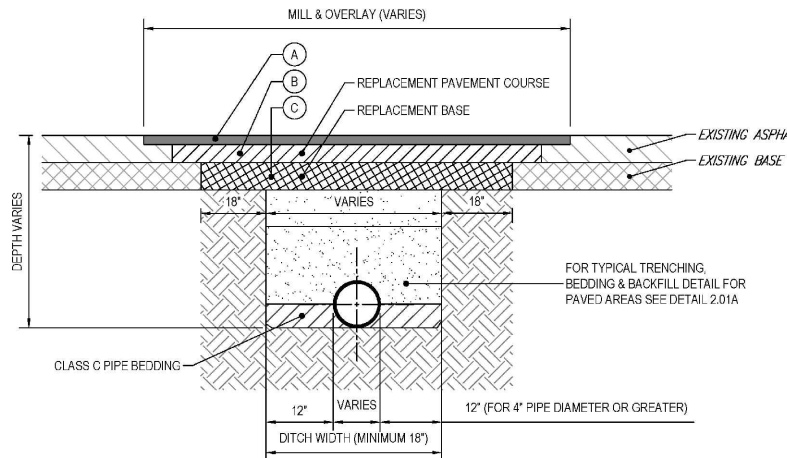
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NOTES:

- TRENCH IS DEFINED AS A FLAT-BOTTOM TRENCH. LIGHTLY CONSOLIDATE BACKFILL TO CENTERLINE OF PIPE.
- THIS STANDARD SHALL BE UTILIZED IN THE ABSENCE OF SPECIFIC STANDARDS. THE STANDARD OF THE AGENCY CONTROLLING THE RIGHT-OF-WAY SHALL GOVERN UNLESS OTHERWISE DIRECTED BY CITY ENGINEER.
- SUITABLE BACKFILL SHALL BE DEFINED AS MATERIAL FREE FROM CINDERS, ASHES, REFUSE, CLAY, ORGANIC MATTER, BOULDERS, ROCKS OR STONES, OR OTHER MATERIAL THAT IN THE OPINION OF THE CITY ENGINEER IS UNSUITABLE.
- NON-PERVIOUS AREAS SHALL MEAN ANY CONCRETE OR ASPHALT CURB, SIDEWALK, TRAIL, DRIVEWAY, OR ROADWAY.

	LAST REVISION		
	NOV 2019	TRENCHING, BEDDING AND BACKFILL DETAIL FOR NON-PERVIOUS (PAVED) AREAS	2.01A



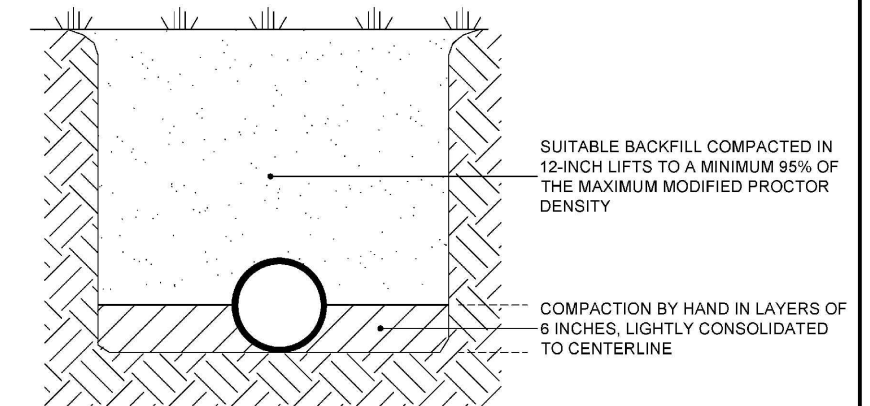
PAVEMENT LAYERS (SEE SPECIFICATIONS)

- A. TYPE SP 9.5 ASPHALT (1") MILL & OVERLAY
- B. TYPE SP 9.5 OR SP 12.5 ASPHALT (1" FOR CLASS I, 2" FOR CLASS II)
- C. CRUSHED CONCRETE BASE (8" FOR CLASS I, 12" FOR CLASS II)

NOTES:

- PAVEMENT SHALL BE MECHANICALLY SAWED.
- CLASS I = RESIDENTIAL ROAD AND CLASS II = COLLECTOR/ARTERIAL ROAD.
- THE MILL AND OVERLAY COURSE (A) SHALL BE 1" THICK AND FDOT TYPE SP 9.5 ASPHALT SHALL BE USED. LIFT TO BE 3/4" MIN. AND 1 1/2" MAX. FOR CLASS I AND CLASS II ROADS.
 WHEN TRENCH IS PERPENDICULAR TO THE ROAD: THE WIDTH OF THE REPLACEMENT BASE LIMIT ± 10" ON EACH SIDE
 WHEN TRENCH IS PARALLEL TO THE ROAD: THE FULL WIDTH OF THE ROAD (CURB TO CURB)
- THE REPLACEMENT PAVEMENT COURSE (B) SHALL EXTEND ± 12" ON EACH SIDE OF THE REPLACEMENT BASE LIMIT AND BE FDOT TYPE SP 9.5 OR SP 12.5 WITH A THICKNESS EQUAL TO THE EXISTING OR AS INDICATED, WHICHEVER IS GREATER. LIFT TO BE 3/4" MIN. AND 1 1/2" MAX. FOR SP 9.5 AND 1 1/2" MIN. TO 3" MAX. FOR SP 12.5.
- THE REPLACEMENT BASE (C) MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. BASE SHALL BE INSTALLED TO A THICKNESS OF THE EXISTING BASE OR AS INDICATED, WHICHEVER IS GREATER. BASE SHALL EXTEND 18" IN EACH SIDE OF THE TRENCH LIMIT. CRUSHED CONCRETE BASE SHALL FOLLOW FDOT STANDARD SPECIFICATIONS FOR RECYCLED CONCRETE AGGREGATES, LATEST EDITION. LAYER COEFFICIENT (SN) SHALL BE 0.18 WITH LIMEROCK BEARING RATIO (LBR) 150 OR GREATER. GRADATION AND SIZE REQUIREMENTS SHALL CONFORM TO FDOT LATEST SPECIFICATIONS.

	LAST REVISION		
	JAN 2020	STANDARD DETAIL FOR RESTORATION WITHIN COT ROADWAY - FLEXIBLE PAVEMENT	2.01B



NOTES:

- TRENCH IS DEFINED AS A FLAT-BOTTOM TRENCH. LIGHTLY CONSOLIDATE BACKFILL TO CENTERLINE OF PIPE.
- THIS STANDARD SHALL BE UTILIZED IN THE ABSENCE OF SPECIFIC STANDARDS. THE STANDARD OF THE AGENCY CONTROLLING THE RIGHT-OF-WAY SHALL GOVERN UNLESS OTHERWISE DIRECTED BY CITY ENGINEER.
- SUITABLE BACKFILL SHALL BE DEFINED AS MATERIAL FREE FROM CINDERS, ASHES, REFUSE, CLAY, ORGANIC MATTER, BOULDERS, ROCKS OR STONES, OR OTHER MATERIAL THAT IN THE OPINION OF THE CITY ENGINEER IS UNSUITABLE.
- NON-PAVED AREA IS A PERVIOUS AREA. IF ANY PART OF THE TRENCH IS WITHIN A CONCRETE OR ASPHALT CURB, SIDEWALK, DRIVEWAY, OR ROADWAY, THEN STANDARD DETAIL 2.01 APPLIES.

	LAST REVISION		
	NOV 2019	TRENCHING, BEDDING, AND BACKFILL DETAIL FOR PERVIOUS (NON-PAVED) AREAS	2.02

RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
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.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

80 - DETAIL SHEET (1)



100% PLANS

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D.I.P. CARRIER PIPE (P.C.) NOMINAL DIAMETER (INCHES)	CASING O.D. (INCHES)	THICKNESS
2	4	1/4" (.250)
4	12	1/4" (.250)
6	14	9/32" (.281)
8	16	9/32" (.281)
12	20	11/32" (.344)
16	24	13/32" (.406)
20	30	15/32" (.469)
24	36	17/32" (.531)
30	42	9/16" (.563)
36	48	9/16" (.563)
42	54	9/16" (.563)

NOTES:

- PIPELINES WITH BENDS LESS THAN 20' FROM CASING ENTRANCE SHALL BE SECURED BY BOTH MECHANICAL RESTRAINTS AND THRUST BLOCKS.
- CASING PIPE SIZES LISTED ARE FOR PUSH-ON JOINT CARRIER PIPE ONLY.
- TWO SPACERS PER JOINT MINIMUM SPACED AS SHOWN OR AS DIRECTED BY CITY ENGINEER.

	LAST REVISION		
	JUL 2018	JACKING & BORING FOR PAVEMENT CROSSING	2.03

METHOD A

POLYETHYLENE TUBE IS CUT INTO LENGTHS APPROXIMATELY TWO FEET LONGER THAN THE PIPE SECTION AND PLACED AROUND IT. AFTER THE PIPE JOINT IS ASSEMBLED, THE POLYETHYLENE TUBE IS MADE TO OVERLAP THE JOINT AND THE OVERLAP SECURED IN PLACE. SINCE THE TUBE IS CONSIDERABLY LARGER THAN THE BARREL OF PIPE, IT IS MADE TO FIT SNUGLY BY FOLDING OVER AT THE TOP AND SECURING WITH TAPE EVERY 24" ALONG THE PIPE SECTION.

METHOD B

POLYETHYLENE TUBE IS CUT ONE FOOT SHORTER THAN THE LENGTH OF THE PIPE SECTION. AFTER PLACEMENT OF THE PIPE, IT IS FOLDED AND SECURED SNUGLY OVERALL. A THREE FOOT LENGTH OF POLYETHYLENE TUBE PLACED OVER THE END OF THE PRECEDING SECTION IS THEN PULLED IN PLACE OVER THE JOINT AFTER ASSEMBLY AND SECURED.

METHOD C

POLYETHYLENE SHEET IS CUT TO A LENGTH TWO FEET LONGER THAN THE PIPE SECTION. THE SHEET IS WRAPPED AROUND THE PIPE SO THAT IT OVERLAPS CIRCUMFERENTIALLY OVER THE TOP QUADRANT OF THE PIPE, THEN SECURED. AFTER JOINT ASSEMBLY, THE SURPLUS LENGTH OF POLYETHYLENE FILM IS SECURED AROUND THE JOINT, PROVIDING AN OVERLAP OF EACH JOINT. TAPE AT EACH JOINT AND AT 3' INTERVALS IN BETWEEN.

NOTES:

- USE BLUE POLYETHYLENE FILM AND TAPE ONLY.
- POLYETHYLENE FILM SHALL BE A MINIMUM OF 8 MIL. THICKNESS.
- SPIRAL WRAP NOT REQUIRED WITH POLYWRAP.

	LAST REVISION		
	JUL 2018	POLYETHYLENE ENCASEMENT INSTALLATION DETAIL	2.05

GRASSED SECTION

ROADWAY SECTION

NOTES:

- STRUCTURAL COURSE AND BASE COURSE REQUIREMENT SHALL BE ESTABLISHED BY THE AGENCY HAVING JURISDICTION.
- SHOCK PADS FOR MAINS TOO SHALLOW FOR THE ABOVE CONFIGURATION SHALL BE DESIGNED ON A CASE-BY-CASE BASIS.

	LAST REVISION		
	JUL 2018	REINFORCED CONCRETE SHOCK PAD (FOR COVER LESS THAN 2.5')	2.06

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PALMA CEIA PHASE III

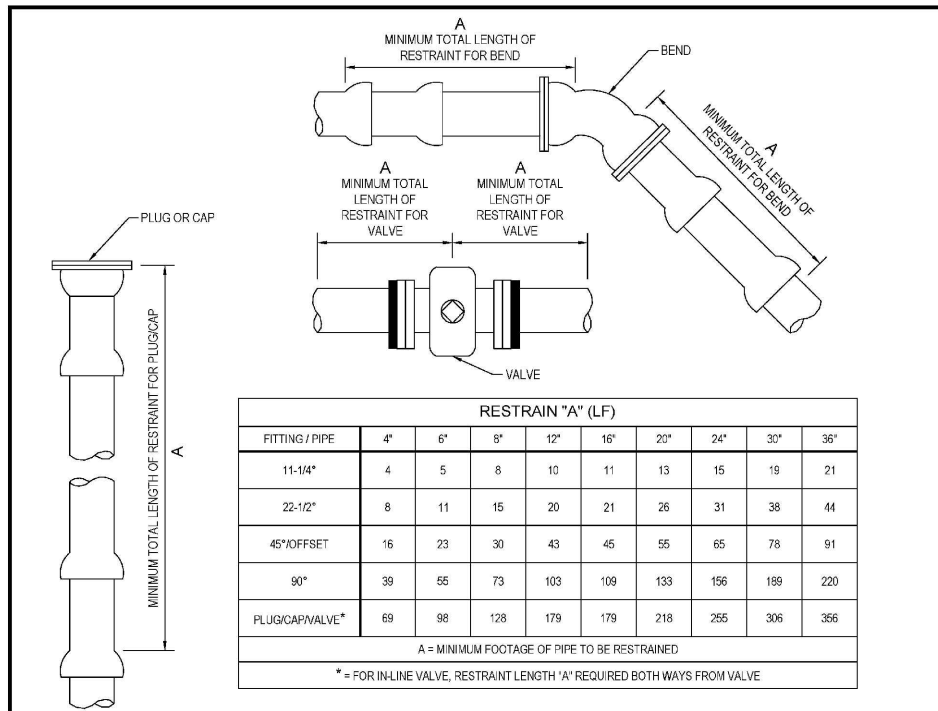
DETAIL SHEET (2)



100% PLANS

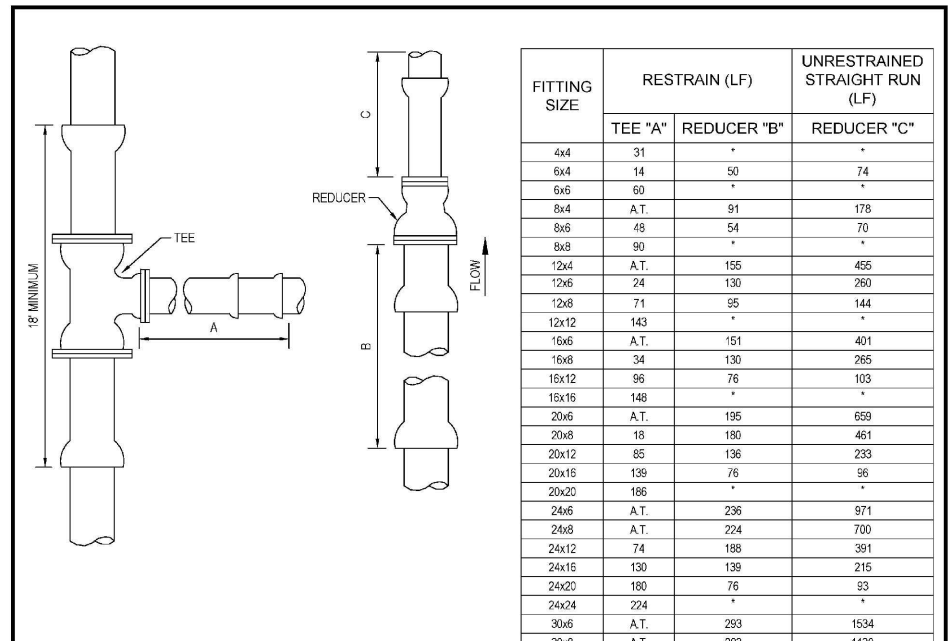
WORK ORDER NO.	WTR-18-0005
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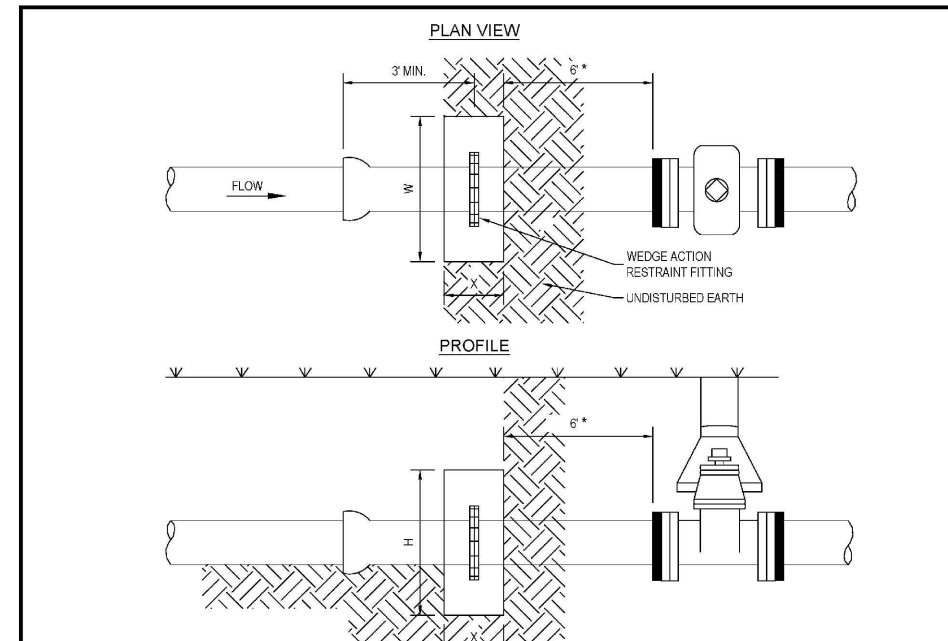
- NOTES:
- THIS TABLE IS BASED ON:
 - MAXIMUM TEST PRESSURE OF 190 PSI
 - LAYING CONDITION TYPE 2 (SEE DETAILS 2.01 AND 2.02)
 - POOR SOIL CONDITIONS
 - USING D.I.P.
 - 3 FEET OF COVER FOR 12" AND SMALLER MAINS; 4 FEET OF COVER FOR 16" AND LARGER MAINS
 - HORIZONTAL BENDS ONLY - ENGINEER TO SUBMIT CALCULATIONS FOR VERTICAL RESTRAINTS
 - "RESTRAINED" PIPE SHALL BE MANUFACTURED RESTRAINED JOINT PIPE, PUSH-ON JOINT PIPE RESTRAINED W/GASKET-TYPE "GRIPPER RESTRAINTS", OR MECHANICAL JOINT PIPE RESTRAINED BY MEGALUG (OR APPROVED EQUIVALENT).
 - ANY ADDITIONAL FITTINGS WITHIN THE RESTRAINED SECTION SHALL BE RESTRAINED ACCORDINGLY.

	LAST REVISION		
	JUL 2018	RESTRAINED JOINT STANDARD FOR BENDS, PLUGS, CAPS, AND VALVES	2.11



- NOTES:
- THIS TABLE IS BASED ON:
 - MAXIMUM TEST PRESSURE OF 190 PSI
 - LAYING CONDITION TYPE 2 (SEE DETAILS 2.01 AND 2.02)
 - POOR SOIL CONDITIONS
 - USING D.I.P.
 - 3 FEET OF COVER FOR 12" AND SMALLER MAINS; 4 FEET OF COVER FOR 16" AND LARGER MAINS
 - HORIZONTAL BENDS ONLY - ENGINEER TO SUBMIT CALCULATIONS FOR VERTICAL RESTRAINTS
 - RESTRAINT FOR REDUCERS: IF "C" STRAIGHT RUN OF PIPE DOWNSTREAM OF REDUCER NOT AVAILABLE, THE RESTRAINT "B" UPSTREAM OF REDUCER.
 - "RESTRAINED" PIPE SHALL BE MANUFACTURED RESTRAINED JOINT PIPE, PUSH-ON JOINT PIPE RESTRAINED W/GASKET-TYPE "GRIPPER RESTRAINTS", OR MECHANICAL JOINT PIPE RESTRAINED BY MEGALUG (OR APPROVED EQUIVALENT).
 - ANY ADDITIONAL FITTINGS WITHIN THE RESTRAINED SECTION SHALL BE RESTRAINED ACCORDINGLY.

	LAST REVISION		
	JUL 2018	RESTRAINED JOINT STANDARD FOR TEES AND REDUCERS	2.12A



- NOTES:
- CONCRETE SHALL BE KEPT AT SUFFICIENT DISTANCE FROM JOINT FOR REMOVAL OF ALL JOINT ACCESSORIES INCLUDING BOLTS.
 - ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
 - THIS TABLE SHOWS THE MINIMUM SIZE THRUST BLOCKS FOR SOIL BEARING PRESSURE OF 2000 PSF AND AN INTERNAL PRESSURE OF 190 PSI. COVER TO T.O.P. IS 3 FEET FOR 12" AND SMALLER MAINS; 4 FEET FOR 16" AND LARGER MAINS.
 - POOR AND WET SOIL (SILTY SOILS, CLAY, MUCK AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS, AS DIRECTED BY CITY ENGINEER.
 - FITTINGS SHALL BE COMPLETELY POLYWRAPPED PRIOR TO POURING THRUST BLOCKS.
- * CLOSEST DISTANCE TO VALVE FOR DEADMAN TO REMAIN EFFECTIVE.

	LAST REVISION		
	JUL 2018	DEADMAN THRUST BLOCK	2.12B

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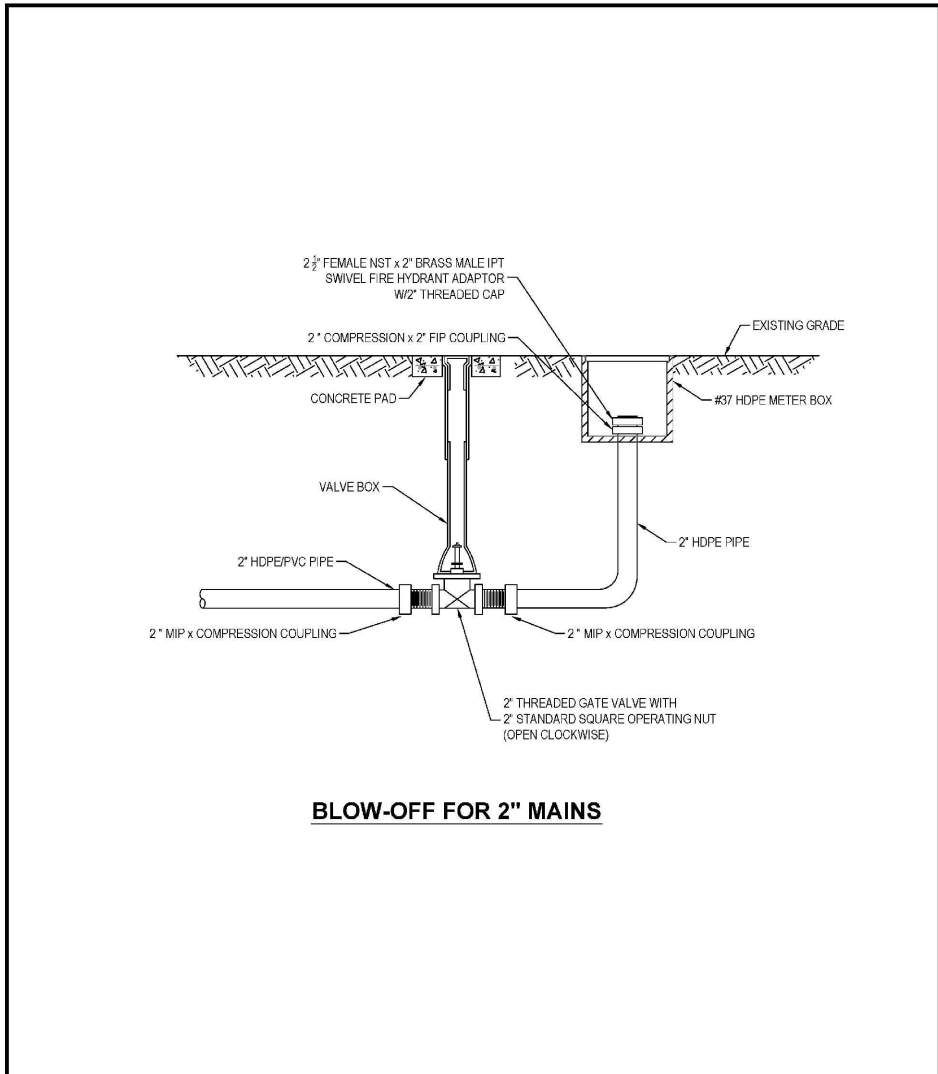
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PALMA CEIA PHASE III

DETAIL SHEET (3)

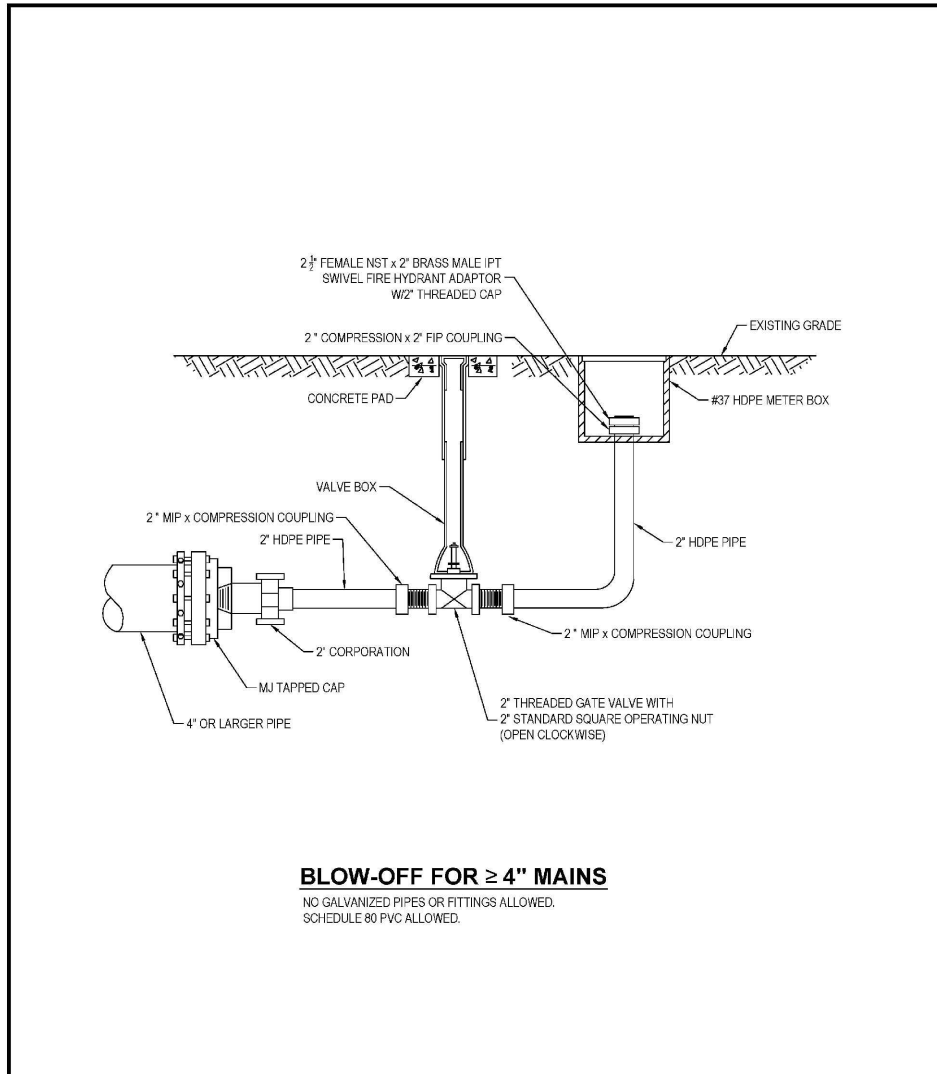
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BLOW-OFF FOR 2" MAINS

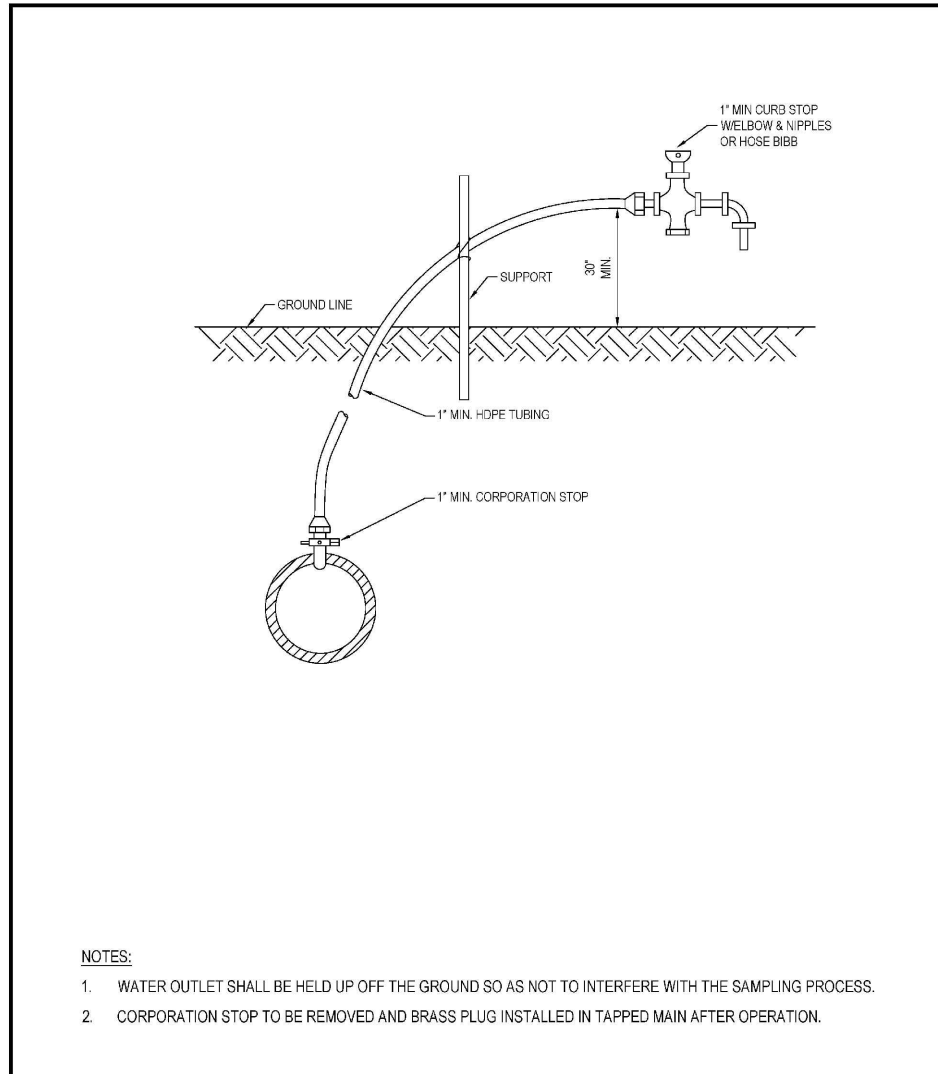
	LAST REVISION		
	JUL 2018	BLOW-OFF VALVE ASSEMBLY W/2" PVC OR HDPE PIPE	2.16



BLOW-OFF FOR ≥ 4" MAINS

NO GALVANIZED PIPES OR FITTINGS ALLOWED.
SCHEDULE 80 PVC ALLOWED.

	LAST REVISION		
	JUL 2018	BLOW-OFF VALVE ASSEMBLY FOR ≥ 4" MAINS W/DI, CI OR PVC PIPE	2.17A



NOTES:

1. WATER OUTLET SHALL BE HELD UP OFF THE GROUND SO AS NOT TO INTERFERE WITH THE SAMPLING PROCESS.
2. CORPORATION STOP TO BE REMOVED AND BRASS PLUG INSTALLED IN TAPPED MAIN AFTER OPERATION.

	LAST REVISION		
	JUL 2018	TEMPORARY SAMPLE TAP INSTALLATION W/DI, CI, OR PVC PIPE	2.18A

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PALMA CEIA PHASE III

DETAIL SHEET (4)

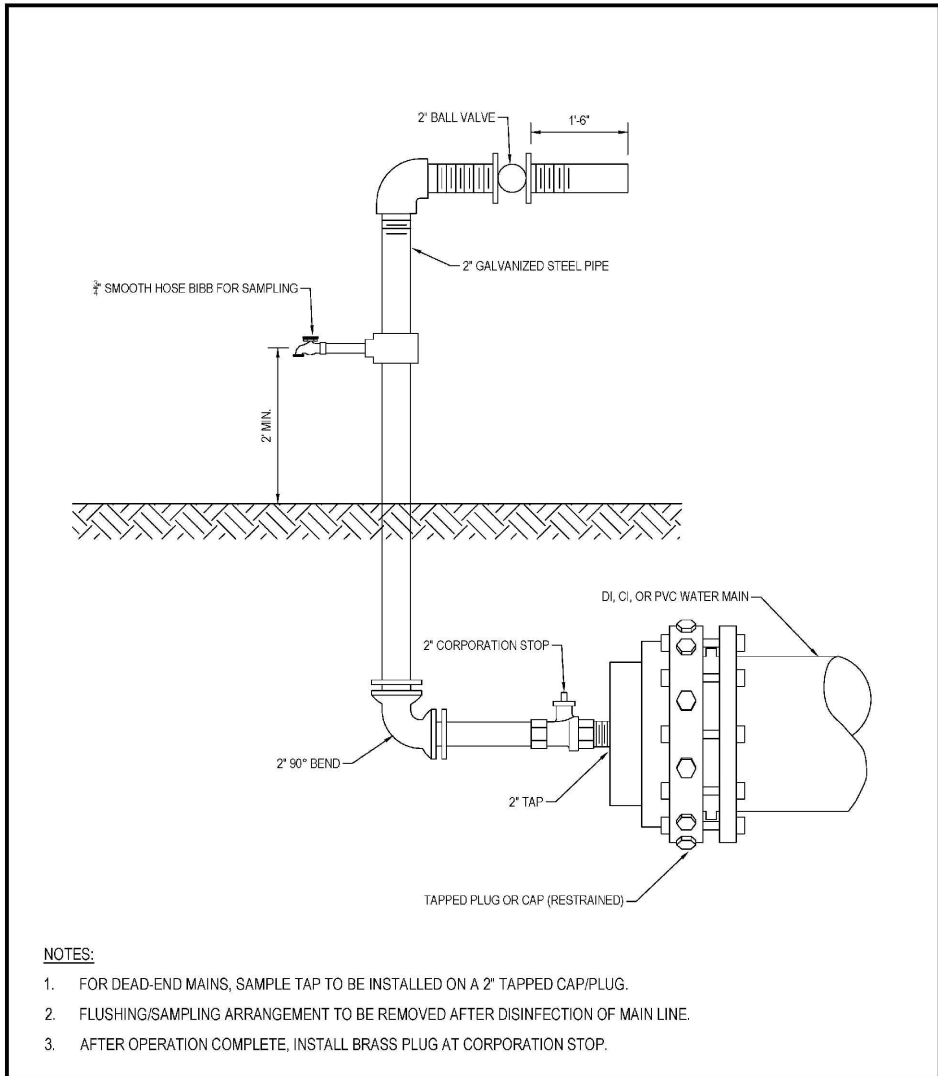
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WORK ORDER NO. **WTR-18-0005**

RECORD DRAWING NO.

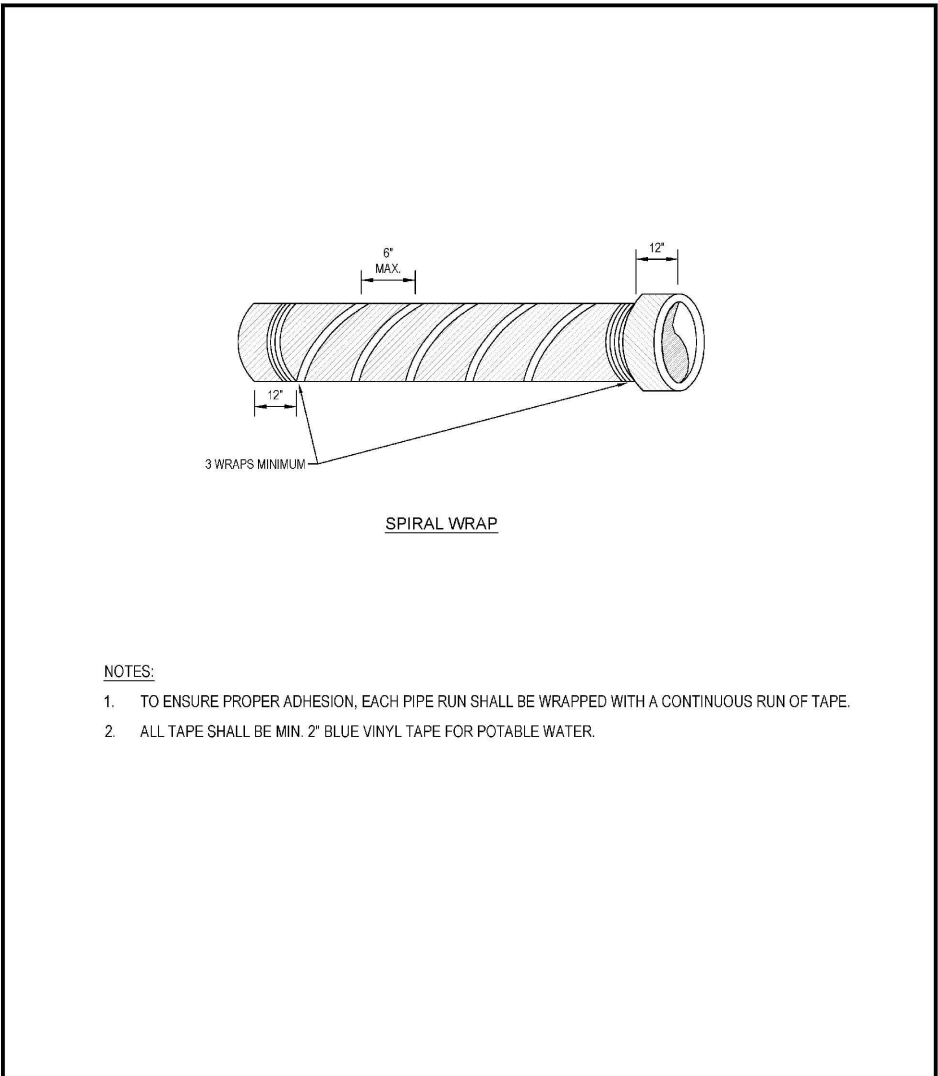
ATLAS PAGE J-10/K10 SHEET 83 OF 90

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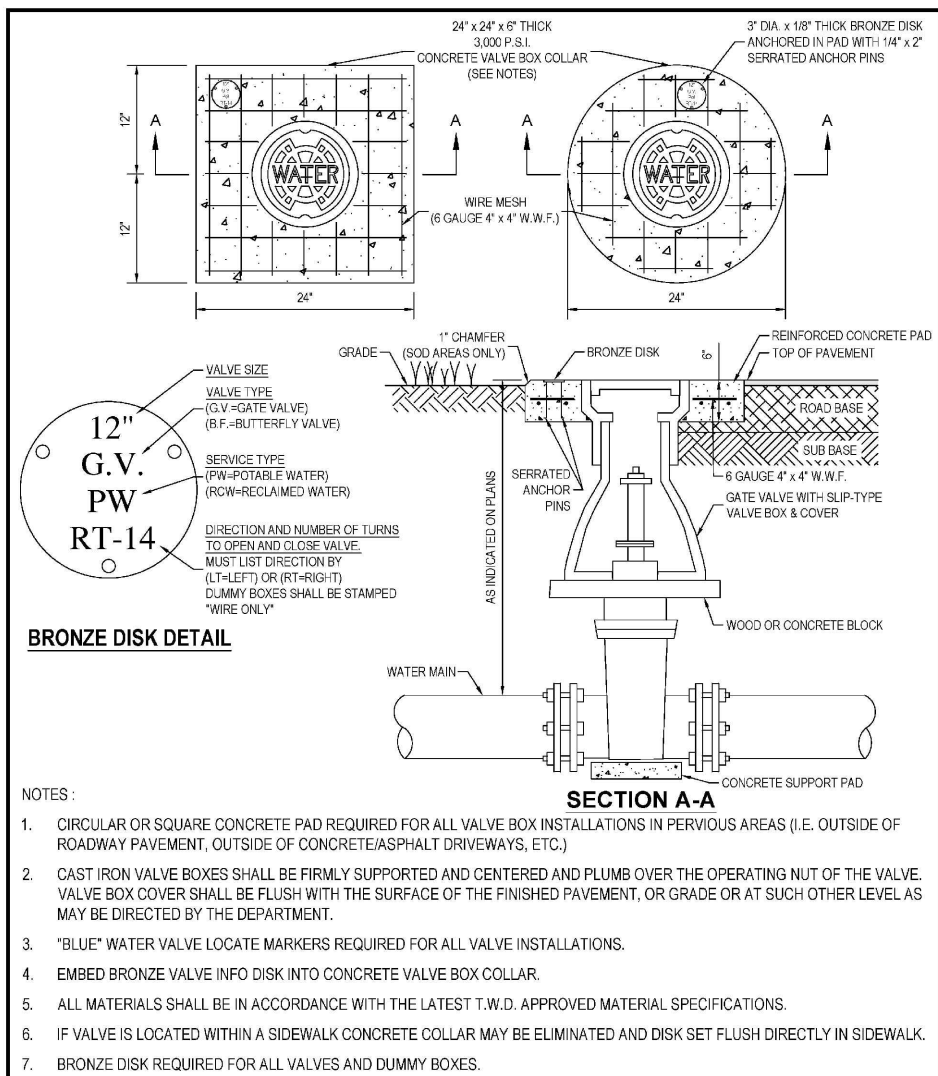
- NOTES:**
- FOR DEAD-END MAINS, SAMPLE TAP TO BE INSTALLED ON A 2" TAPPED CAP/PLUG.
 - FLUSHING/SAMPLING ARRANGEMENT TO BE REMOVED AFTER DISINFECTION OF MAIN LINE.
 - AFTER OPERATION COMPLETE, INSTALL BRASS PLUG AT CORPORATION STOP.

	LAST REVISION	TEMPORARY SAMPLE TAP INSTALLATION FOR END OF LINE W/DI, CI, OR PVC PIPE	2.19A
	JUL 2018		



- NOTES:**
- TO ENSURE PROPER ADHESION, EACH PIPE RUN SHALL BE WRAPPED WITH A CONTINUOUS RUN OF TAPE.
 - ALL TAPE SHALL BE MIN. 2" BLUE VINYL TAPE FOR POTABLE WATER.

	LAST REVISION	DUCTILE IRON PIPE IDENTIFICATION DETAIL	2.20
	JUL 2018		



12" G.V. PW RT-14

VALVE SIZE
VALVE TYPE (G.V.=GATE VALVE) (B.F.=BUTTERFLY VALVE)
SERVICE TYPE (PW=POTABLE WATER) (RW=RECLAIMED WATER)
DIRECTION AND NUMBER OF TURNS TO OPEN AND CLOSE VALVE. MUST LIST DIRECTION BY (LT=LEFT) OR (RT=RIGHT) DUMMY BOXES SHALL BE STAMPED "WIRE ONLY"

BRONZE DISK DETAIL

- NOTES:**
- CIRCULAR OR SQUARE CONCRETE PAD REQUIRED FOR ALL VALVE BOX INSTALLATIONS IN PERVIOUS AREAS (I.E. OUTSIDE OF ROADWAY PAVEMENT, OUTSIDE OF CONCRETE/ASPHALT DRIVEWAYS, ETC.)
 - CAST IRON VALVE BOXES SHALL BE FIRMLY SUPPORTED AND CENTERED AND PLUMB OVER THE OPERATING NUT OF THE VALVE. VALVE BOX COVER SHALL BE FLUSH WITH THE SURFACE OF THE FINISHED PAVEMENT, OR GRADE OR AT SUCH OTHER LEVEL AS MAY BE DIRECTED BY THE DEPARTMENT.
 - "BLUE" WATER VALVE LOCATE MARKERS REQUIRED FOR ALL VALVE INSTALLATIONS.
 - EMBED BRONZE VALVE INFO DISK INTO CONCRETE VALVE BOX COLLAR.
 - ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST T.W.D. APPROVED MATERIAL SPECIFICATIONS.
 - IF VALVE IS LOCATED WITHIN A SIDEWALK CONCRETE COLLAR MAY BE ELIMINATED AND DISK SET FLUSH DIRECTLY IN SIDEWALK.
 - BRONZE DISK REQUIRED FOR ALL VALVES AND DUMMY BOXES.

	LAST REVISION	VALVE INSTALLATION W/VALVE BOX & PAD FOR DI OR CI PIPE	3.01
	JUN 2020		

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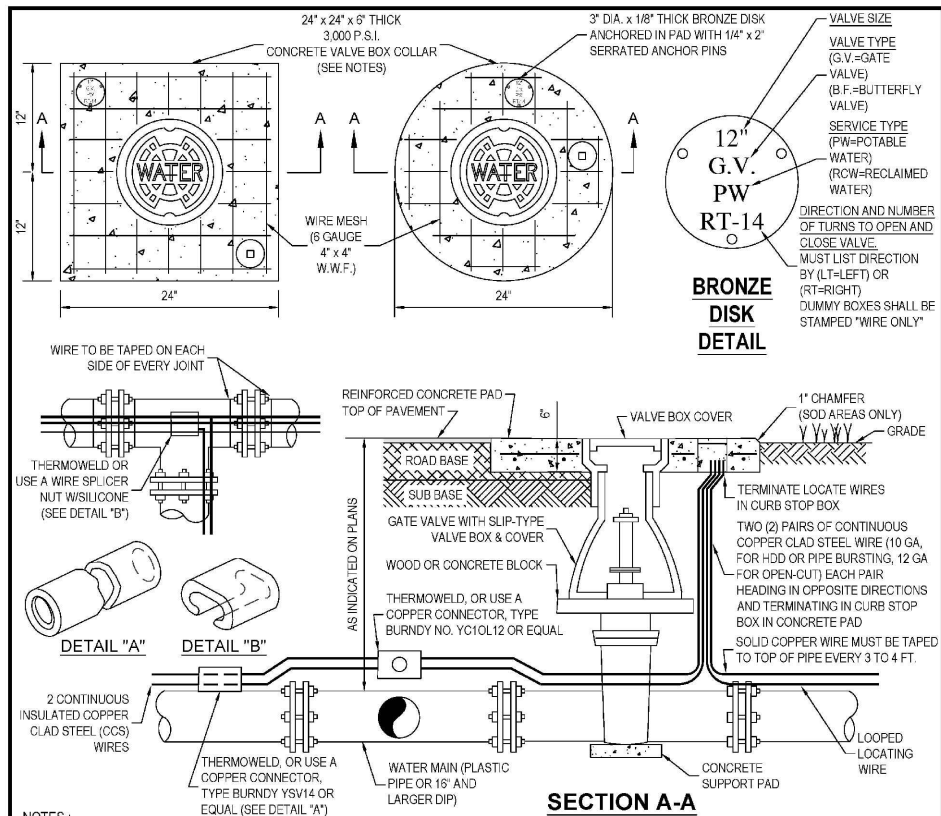
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PALMA CEIA PHASE III

DETAIL SHEET (5)

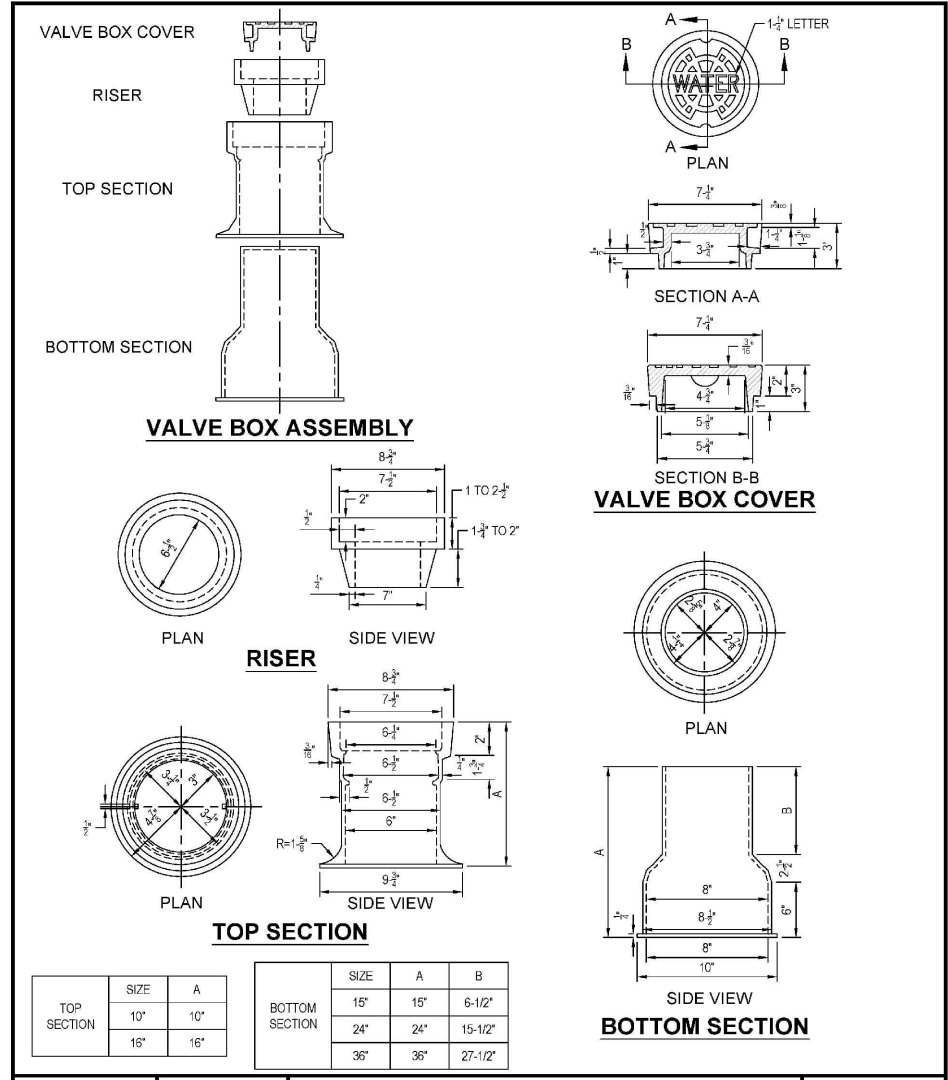
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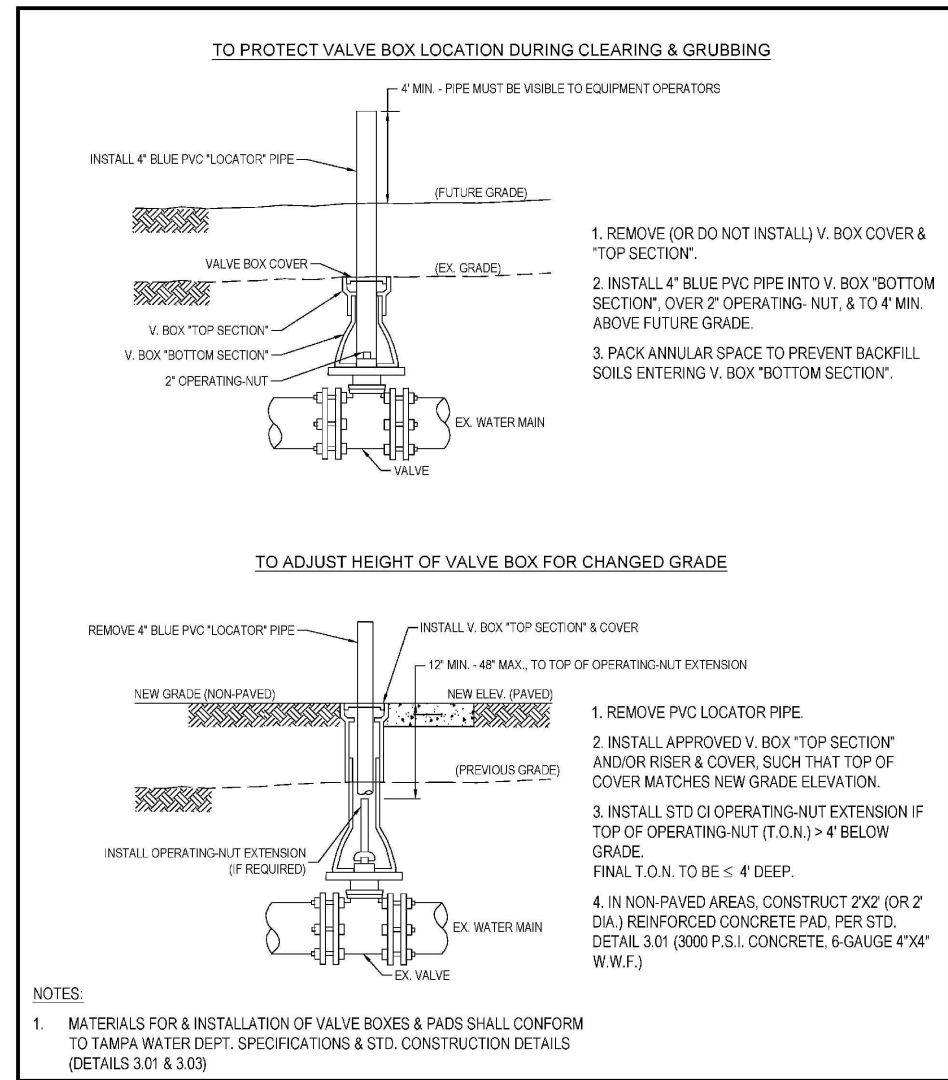


- NOTES:
- CIRCULAR OR SQUARE CONCRETE PAD REQUIRED FOR ALL VALVE BOX INSTALLATIONS IN PERVIOUS AREAS (I.E. OUTSIDE OF ROADWAY PAVEMENT, OUTSIDE OF CONCRETE/ASPHALT DRIVEWAYS, ETC.)
 - CAST IRON VALVE BOXES SHALL BE FIRMLY SUPPORTED AND CENTERED AND PLUMB OVER THE OPERATING NUT OF THE VALVE. VALVE BOX COVER SHALL BE FLUSH WITH THE SURFACE OF THE FINISHED PAVEMENT, OR GRADE OR AT SUCH OTHER LEVEL AS MAY BE DIRECTED BY THE DEPARTMENT.
 - *"BLUE" WATER VALVE LOCATE MARKERS REQUIRED FOR ALL VALVE INSTALLATIONS.
 - EMBED BRONZE VALVE INFO DISK INTO CONCRETE VALVE BOX COLLAR.
 - ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST T.W.D. APPROVED MATERIAL SPECIFICATIONS.
 - IF VALVE IS LOCATED WITHIN A SIDEWALK CONCRETE COLLAR MAY BE ELIMINATED AND DISK SET FLUSH DIRECTLY IN SIDEWALK.
 - BRONZE DISK REQUIRED FOR ALL VALVES AND DUMMY BOXES.
 - ALL CONNECTIONS SHALL BE SEALED WITH A BITUMINOUS COATING FOR CORROSION PROTECTION.

	LAST REVISION	VALVE INSTALLATION W/VALVE BOX & PAD FOR PLASTIC PIPE WITH DOUBLE COPPER TRACER WIRE ON PIPE	3.02
	JUL 2018		



	LAST REVISION	VALVE BOX, SLIP TYPE	3.04
	JUL 2018		



	LAST REVISION	VALVE BOX (V. BOX) ADJUSTMENTS FOR GRADE CHANGE	3.05
	NOV 2019		

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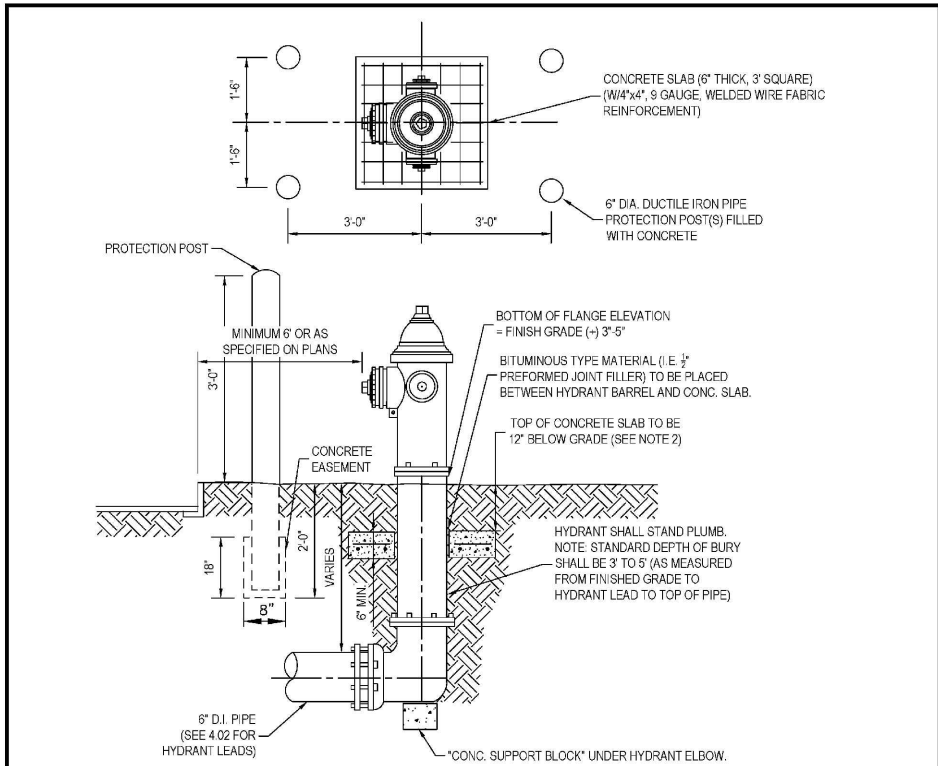
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PALMA CEIA PHASE III
DETAIL SHEET (6)

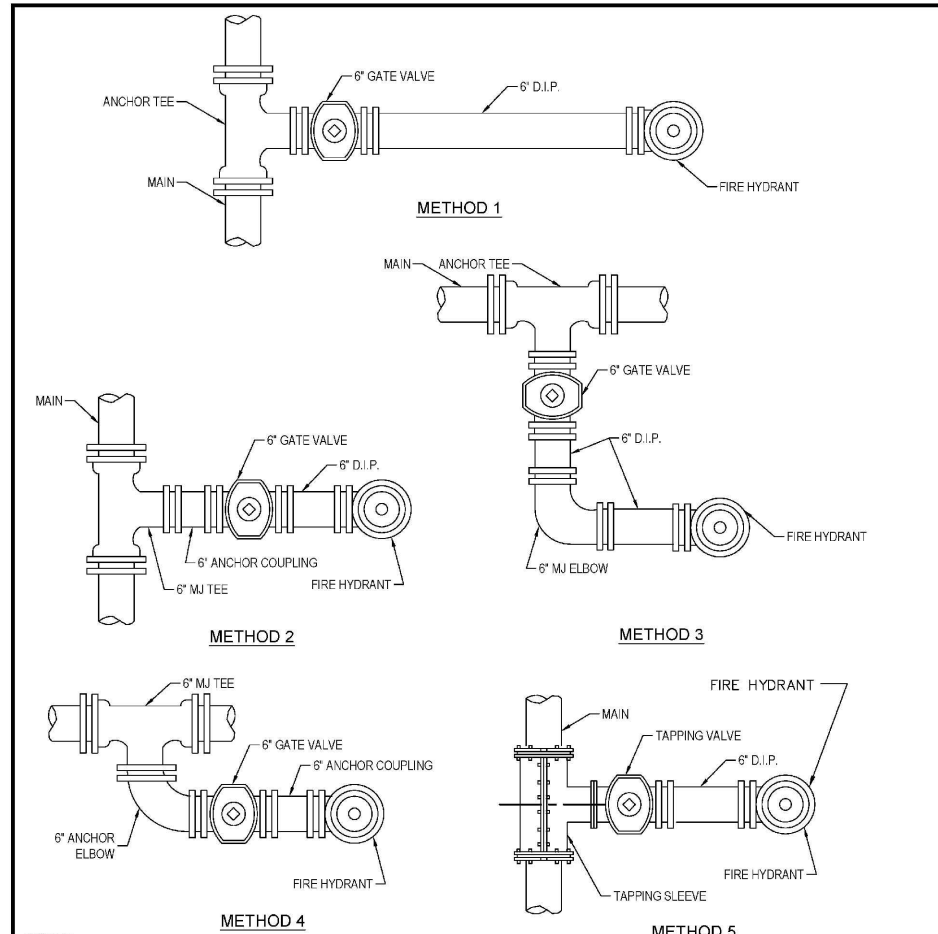
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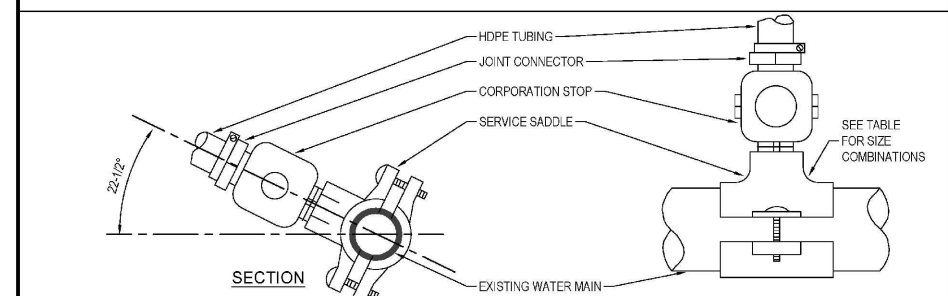
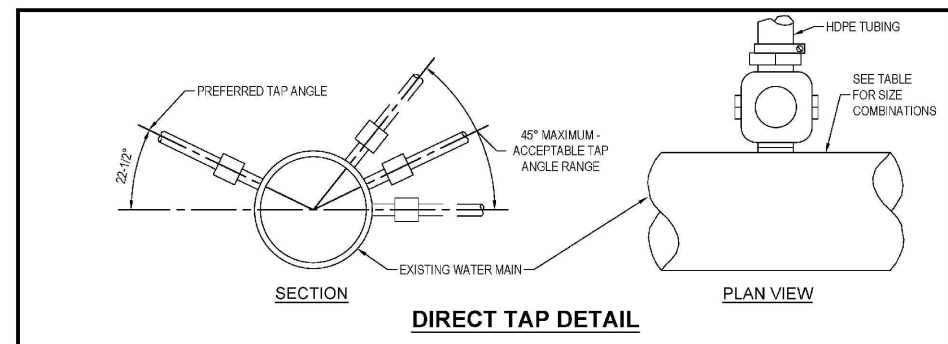
- NOTES:**
- FIRE HYDRANT BARREL ABOVE THE GROUND LINE SHALL BE PAINTED WITH A HIGH-GRADE ENAMEL PAINT, FEDERAL SAFETY YELLOW (OSHA APPROVED), AND THE HYDRANT BONNET SHALL BE PAINTED OSHA GREEN.
 - CONCRETE SLAB MAY BE ELIMINATED IN AREAS WHERE HYDRANT IS SET IN SIDEWALK AND SIDEWALK HAS BEEN INSTALLED PRIOR TO FINAL ACCEPTANCE OF THE HYDRANT.
 - THRUST RESTRAINT FOR HYDRANT:
 - HYDRANT SHALL BE FIRMLY SUPPORTED UNDER ELBOW IN ALL METHODS BY SUPPORT BLOCK
 - ALL BACKFILL SHALL BE THOROUGHLY COMPACTED UNDER SUPPORT BLOCK AND UNDER THRUST COLLAR
 - ALL HYDRANT LEADS SHALL BE RESTRAINED BY MEGALUGS OR EQUIVALENT MECHANICAL RESTRAINTS
 - PROTECTION POSTS ARE REQUIRED WHEN HYDRANT IS LESS THAN 6 FEET FROM EDGE OF PAVEMENT, OR AS DIRECTED BY THE ENGINEER.
 - FOR PVC MAINS, INSTALL CONCRETE SUPPORT BLOCK UNDER ALL HYDRANT TEES.

	LAST REVISION		
	JUL 2018	FIRE HYDRANT INSTALLATION	4.01



- NOTES:**
- VALVE SHALL BE SET IN ACCORDANCE WITH DETAIL 3.01. FOR HYDRANT SET, SEE DETAIL 4.01.
 - ALL VALVES SHALL BE ANCHORED TO BRANCH OF TEE ON ALL HYDRANT INSTALLATIONS.
 - ALL HYDRANT LEADS SHALL BE RESTRAINED BY MEGALUGS OR EQUIVALENT.
 - FOR PVC MAINS, INSTALL CONCRETE SUPPORT BLOCK UNDER HYDRANT TEES.

	LAST REVISION		
	JUL 2018	FIRE HYDRANT METHODS OF INSTALLATION	4.02



PIPE	SIZE	CORP. TAP SIZE	
D/CI	12"	DT	DT
	8"	DT	SS
	6"	DT	SS
	4"	SS	SS
PVC	2", 2-1/2"	SS	NA
	8", C-900	SS	SS
	6", C-900	SS	SS
OTHER*	12"	SS	SS
	10"	SS	SS
	8"	SS	SS
	6"	SS	SS
	4"	SS	NA
	3"	SS	NA
	2", 2-1/2"	SS	NA

LEGEND
 DT- DIRECT TAP CAN BE ALLOWED SS- SERVICE SADDLE IS REQUIRED NA- NOT ALLOWED
 *ASBESTOS CEMENT, STEEL, GALVANIZED IRON PIPE, NON STD PVC, ETC.

	LAST REVISION		
	JUN 2020	TAPPING DETAIL FOR 3/4", 1", 1-1/2" & 2" W/DI, CI, OR PVC PIPE	5.01A

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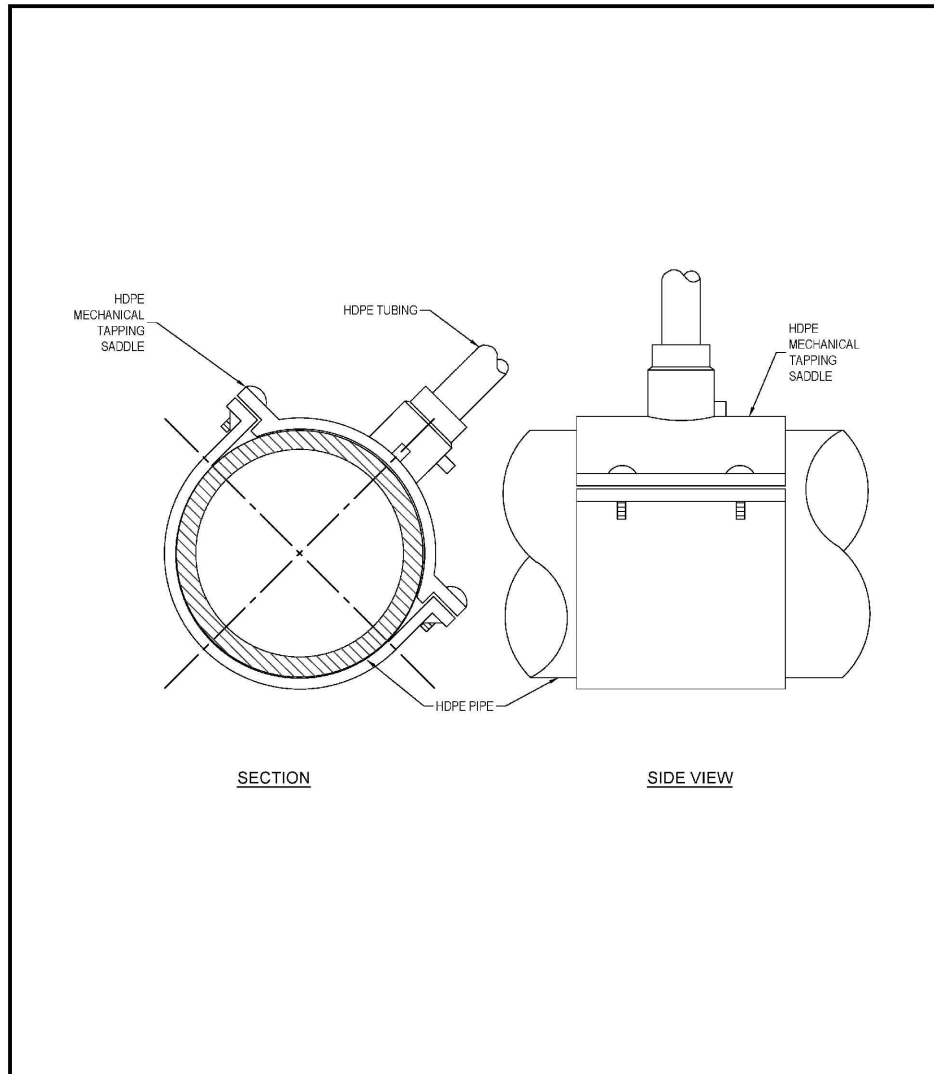
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PALMA CEIA PHASE III

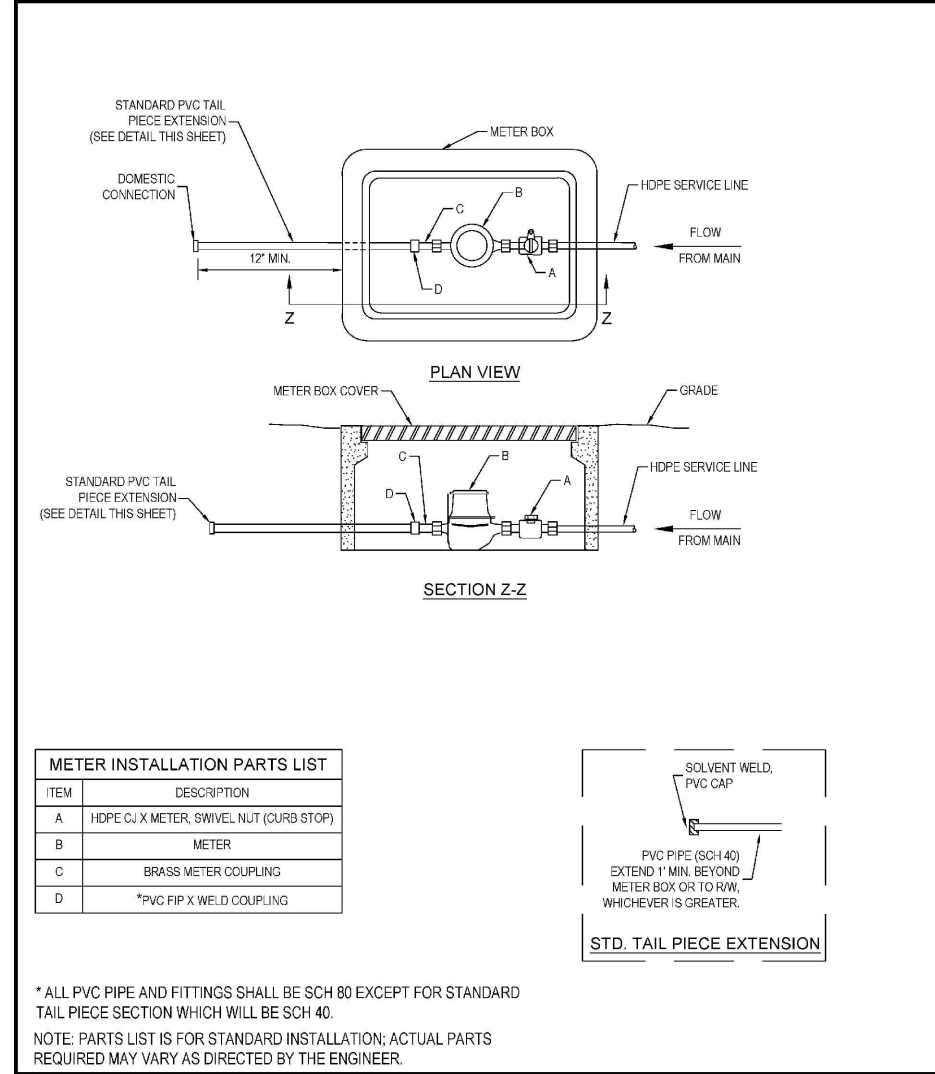
DETAIL SHEET (7)

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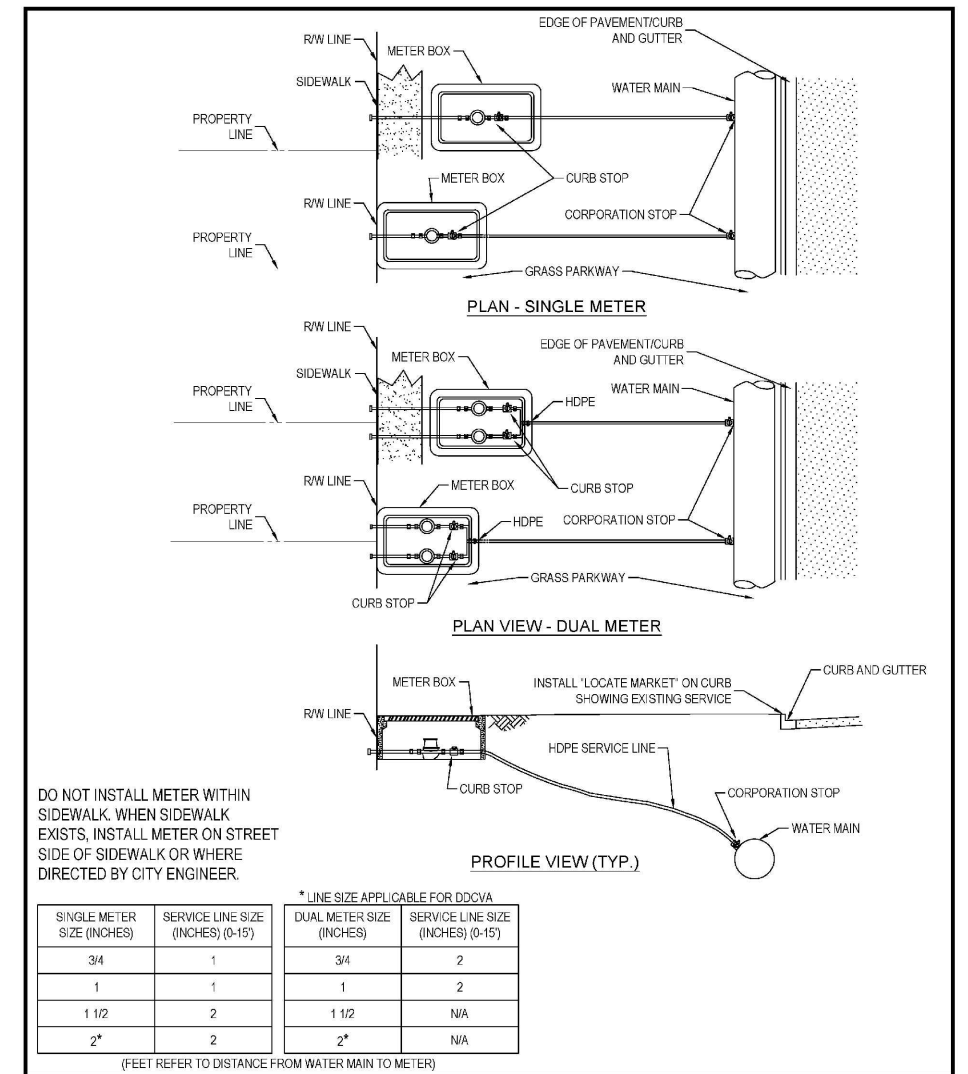
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	LAST REVISION		
	JUL 2018	TAPPING DETAIL FOR 1" & 2" SERVICE W/HDPE PIPE	5.01B



	LAST REVISION		
	JUL 2018	SINGLE METER SET DETAIL 3/4", 1", 1-1/2", 2"	5.02



	LAST REVISION		
	JUL 2018	SINGLE & DUAL METERED SERVICE - SHORT SIDE 3/4", 1", 1-1/2" & 2"	5.04A

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PALMA CEIA PHASE III
DETAIL SHEET (8)

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PLAN - SINGLE METER

PLAN - DUAL METER

PROFILE

DO NOT INSTALL METER WITHIN SIDEWALK. WHEN SIDEWALK EXISTS, INSTALL METER ON STREET SIDE OF SIDEWALK OR WHERE DIRECTED BY CITY ENGINEER.

* LINE SIZE APPLICABLE FOR DDCVA			
SINGLE METER SIZE (INCHES)	SERVICE LINE SIZE (INCHES) (0-15')	DUAL METER SIZE (INCHES)	SERVICE LINE SIZE (INCHES) (0-15')
3/4	1	3/4	2
1	1	1	2
1 1/2	2	1 1/2	N/A
2"	2	2"	N/A

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PLAN VIEW - SINGLE METER

PLAN VIEW - DUAL METER

PROFILE VIEW (TYP.)

DO NOT INSTALL METER WITHIN SIDEWALK. WHEN SIDEWALK EXISTS, INSTALL METER ON STREET SIDE OF SIDEWALK OR WHERE DIRECTED BY ENGINEER.

INSTALL 'LOCATE MARKER' ON CURB SHOWING EXISTING SERVICE SLEEVE OR CASING.

HDPE SERVICE LINE W/DOUBLE RUN OF CONTINUOUS TRACER WIRE TERMINATING IN METER BOX.

WYE (DUAL SERVICE ONLY).

CASING SPECIFICATION:

- IF PUSHED-SCH 40 STEEL PIPE (MIN)
- IF LAYED IN OPEN TRENCH-SCH: 40 STEEL PIPE OR SCH 80 PVC SOLVENT WELD PIPE.
- IF USING HDPE TUBING (UP TO 2" SDR-9 200 PSI), TYPE III, COLOR AND UV CODE E, CLASS C, PE 4710, AWWA C-901, NSF-61, MIN. CELL CLASSIFICATION OF PE 454474 E.
- IF USING HDPE PIPE (4" OR LARGER)-DR-11 160 PSI, PE 4710, AWWA C-906, NSF-61, MIN. CELL CLASSIFICATION OF PE 454474 C. EXTERIOR COLOR TO BE SOLID BLUE OR BLACK W/BLUE STRIPES (90 OR 120 DEGREES APART)

SINGLE METER SIZE (INCHES)	SERVICE LINE SIZE (INCHES)		CASING SIZE (INCHES)
	(15'-80')	(80'-150')	
3/4	1	2	2 1/4
1	1	2	2 1/4
1 1/2	2	2	4
2"	4" D.I.P.	4" D.I.P.	12

DUAL METER SIZE (INCHES)	SERVICE LINE SIZE (INCHES)		CASING SIZE (INCHES)
	(15'-80')	(80'-150')	
3/4	2	2	4
1	2	4" D.I.P.	4 1/2
1 1/2	N/A	N/A	N/A
2"	N/A	N/A	N/A

* OR GREATER, IF REQUIRED BY ROW CONTROLLING AGENCY
** LINE SIZES APPLICABLE FOR 2" DDCV

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ANTI-FLOAT LID W/REBAR & AMR SNAP-LOCK SLIDE MOUNT

HDPE METER BOX w/LIP

#37 HDPE METER BOX W/COVER

N.T.S.

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TAMPA, FLA. 33602
P.E. #79453

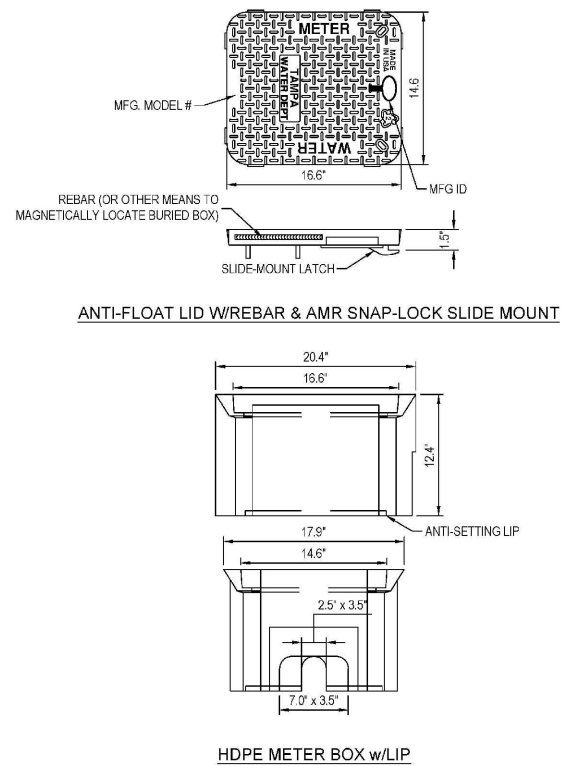
REV NO.	DATE	DESCRIPTION	BY	DESIGNED	CL
.	.	.	.	DRAWN	SV
.	.	.	.	CHECKED	RAJ
.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

DETAIL SHEET (9)

City of Tampa
Water Department

100% PLANS	
WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGEJ-10/K10	SHEET 88 OF 90



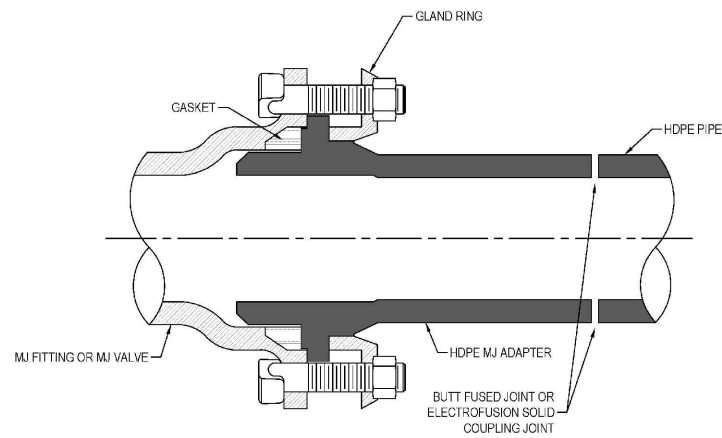
ANTI-FLOAT LID W/REBAR & AMR SNAP-LOCK SLIDE MOUNT

HDPE METER BOX w/LIP

"DUAL-H" HDPE METER BOX W/COVER

N.T.S.

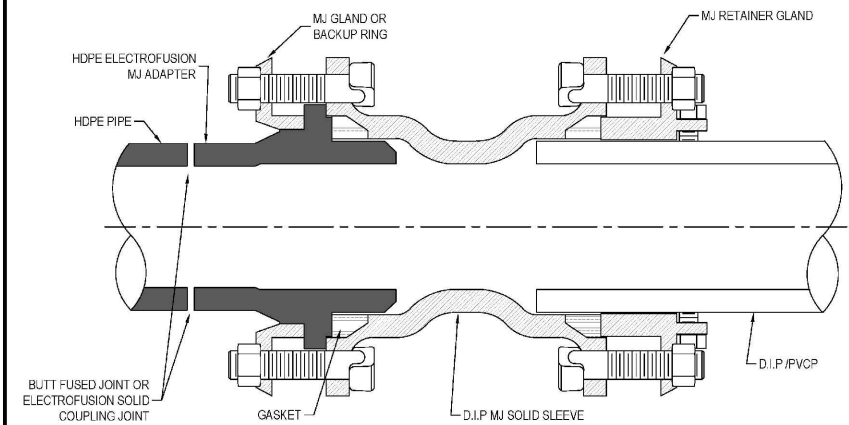
	LAST REVISION		
	JUL 2018	3/4" OR 1" DUAL SERVICE HDPE METER BOX	5.11



NOTES:

1. SCHEMATIC SHOWN FOR STANDARD MJ FITTINGS AND GATE VALVES.
2. BOLT LENGTH SIZED TO ACCOMODATE GLAND RING, MJ ADAPTOR AND MJ FITTING ON MJ VALVE.

	LAST REVISION		
	JUL 2018	HDPE PIPE TO MJ FITTING TRANSITION	8.01



NOTES:

1. SCHEMATIC SHOWN FOR STANDARD MJ FITTINGS AND GATE VALVES.
2. BOLT LENGTH SIZED TO ACCOMODATE GLAND RING, MJ ADAPTOR AND MJ FITTING ON MJ VALVE.

	LAST REVISION		
	JUL 2018	HDPE PIPE TO D.I.P./PVCP SPIGOT-TO-SPIGOT TRANSITION	8.02

RORY A. JONES, P.E.
 CITY OF TAMPA WATER DEPT.
 306 E. JACKSON ST., 5E
 TAMPA, FLA. 33602
 P.E. #79453

REV NO.	DATE	DESCRIPTION	BY	DESIGNED	CL
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.	.	.	.	RAJ	RAJ
.	.	.	.	DATE	06/04/2019

PALMA CEIA PHASE III

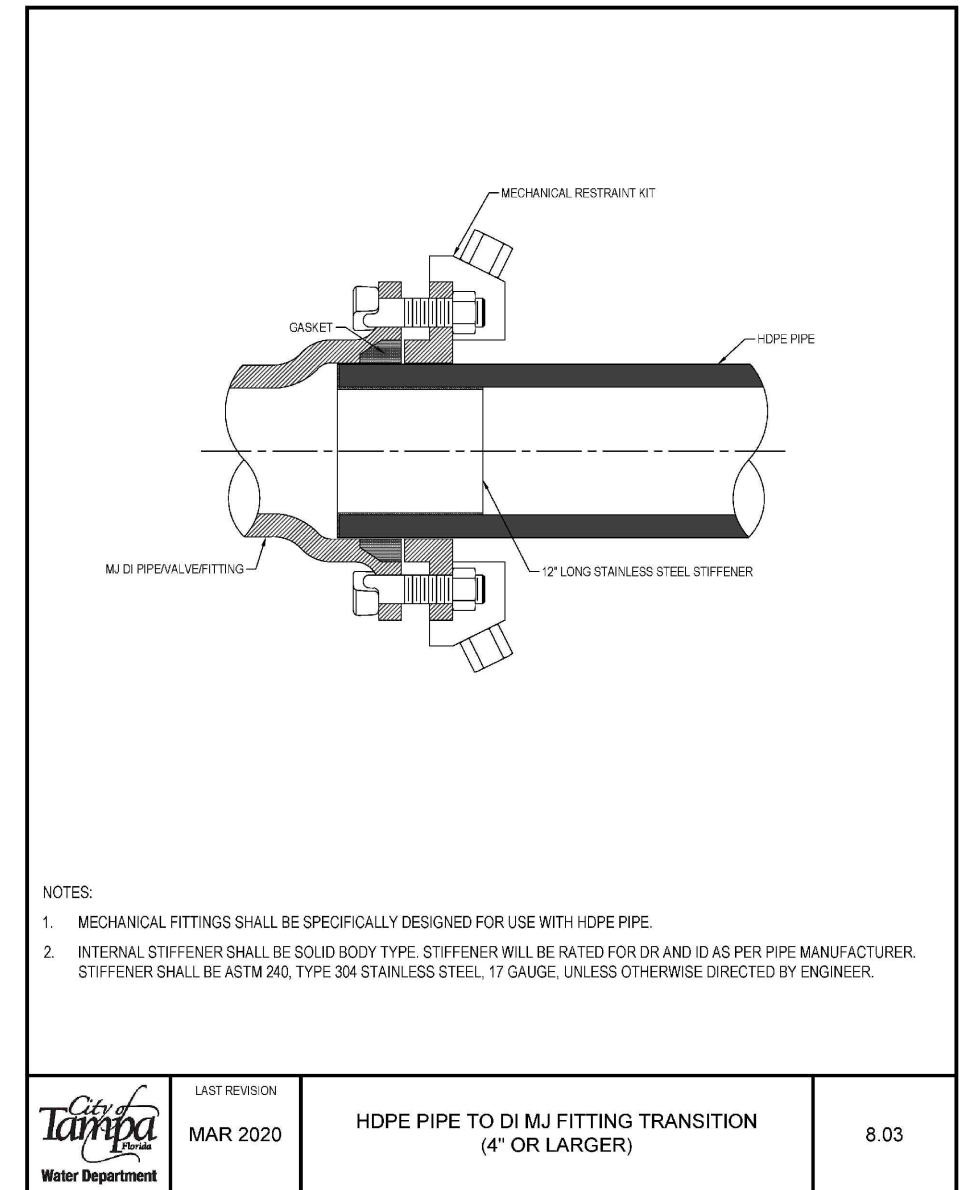
DETAIL SHEET (10)



100% PLANS

WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
ATLAS PAGEJ-10/K10	SHEET 89 OF 90

K:\Projects\WTR\18\WTR-18-005\Palma Ceia Phase III Water Main Replacement\02-Design\Drawings\01-Dwg\02-Sheets\WTR-18-005-DETAILS.dwg, Feb 04, 2021 - 7:30am



RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., 5E
TAMPA, FLA. 33602
P.E. #79453

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.	.	.	.	DRAWN	SV
.	.	.	.	CHECKED	RAJ
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PALMA CEIA PHASE III

DETAIL SHEET (11)



100% PLANS

WORK ORDER NO.	WTR-18-0005
RECORD DRAWING NO.	
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