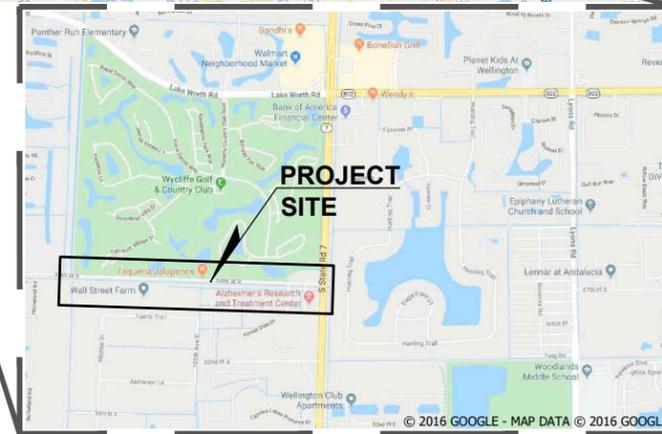
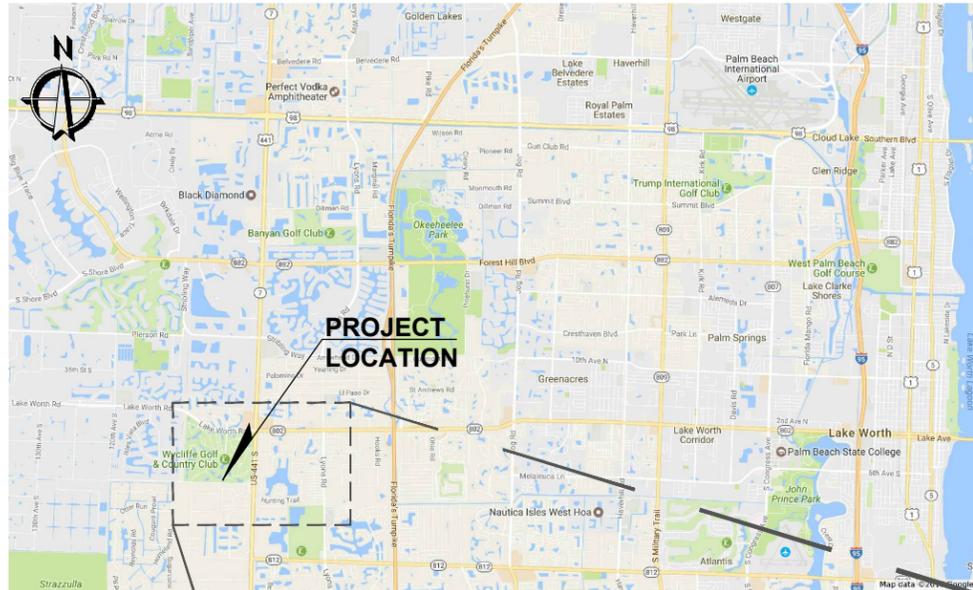


50TH STREET SOUTH RAW WATER MAIN REPLACEMENT

PREPARED FOR



**THE VILLAGE OF
WELLINGTON**
PALM BEACH COUNTY, FLORIDA
MARCH 2020



VICINITY MAP

N.T.S.

SECTION 25, TOWNSHIP 44 SOUTH, RANGE 41 EAST



VILLAGE COUNCIL

ANNE GERWIG, MAYOR
MICHAEL J. NAPOLEONE, VICE MAYOR
JOHN T. MCGOVERN, COUNCILMAN
MICHAEL DRAHOS, COUNCILMAN
TANYA SISKIND, COUNCILWOMAN

VILLAGE MANAGER

PAUL SCHOFIELD

UTILITIES DIRECTOR

SHANNON LAROCQUE, PE

INDEX OF SHEETS

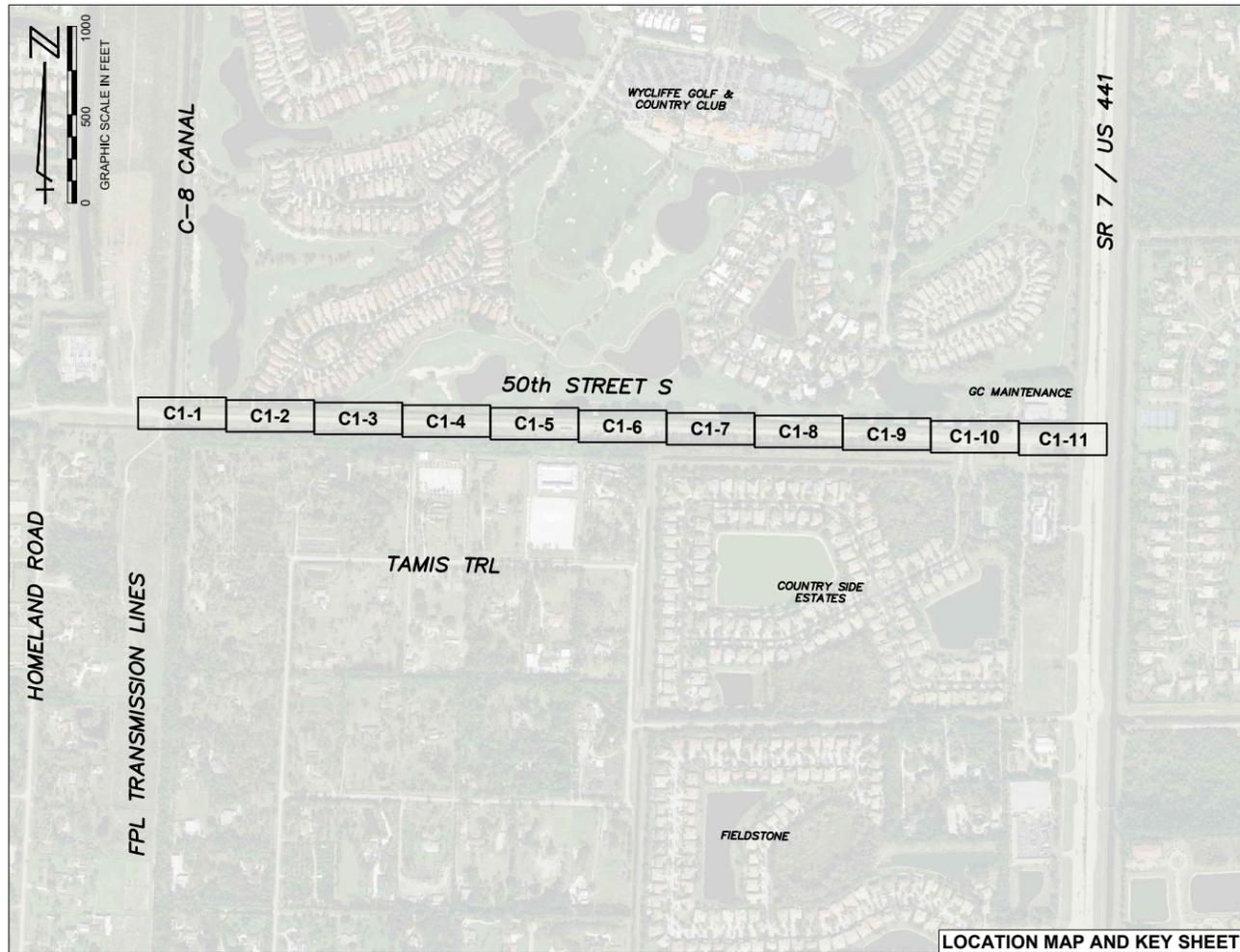
SHEET NO.	DESCRIPTION
C0-1	COVER
C0-2	LOCATION AND KEY SHEET MAP, GENERAL NOTES, AND LEGEND
C0-3	CONSTRUCTION SEQUENCING PLAN
C1-1	PLAN AND PROFILE
C1-2	PLAN AND PROFILE
C1-3	PLAN AND PROFILE
C1-4	PLAN AND PROFILE
C1-5	PLAN AND PROFILE
C1-6	PLAN AND PROFILE
C1-7	PLAN AND PROFILE
C1-8	PLAN AND PROFILE
C1-9	PLAN AND PROFILE
C1-10	PLAN AND PROFILE
C1-11	PLAN AND PROFILE
C5-1	VILLAGE OF WELLINGTON STANDARD DETAILS
C5-2	VILLAGE OF WELLINGTON STANDARD DETAILS
C5-3	VILLAGE OF WELLINGTON STANDARD DETAILS
C5-4	PBCLD NOTES DETAILS
C5-5	CONNECTION DETAILS
C5-6	CONNECTION DETAILS
C5-7	DETAILS

TOTAL NO. OF SHEETS: 21

PLOT DATE: Mar 26, 2020 5:25pm XREFS: IMAGES: IMG69RW_CVR2.jpg ... I:\well\cm\cadd\wg\wg\cm\cm\1_CVR2.jpg

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ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

CADD FILE: F:\well\50rw\CAD\DWG\50RWCS01_C0-1.dwg	1/27/20	SMS	REVISED PER PBCLD COMMENTS	SEAL	FLORIDA E.B. NO. 48		FLORIDA L.B. NO. 48	FIELD: EGI	50TH STREET SOUTH RAW WATER MAIN REPLACEMENT ----- THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA	DATE: MARCH 2020
	NO.	DATE	BY	DATE	SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693		5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com	DRAWN: SMR DESIGN: SMS APPR: SMS SCALE: AS SHOWN		P.A. NO. B8704.30 DWG. NO. 44-41-25-02 SHEET: C0-1



GENERAL NOTES:

- ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FDOT SPECIFICATIONS, LATEST ADDITION.
- ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL SLOPE FINISHED GRADES UNIFORMLY BETWEEN OTHER FINISHED AND EXISTING GRADES AND IN SUCH A MANNER TO PREVENT STORMWATER PONDING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL, DISPOSAL, ABANDONMENT, AND RELOCATIONS NECESSARY TO COMPLETE THE WORK WHETHER SHOWN ON THE DRAWINGS OR NOT. CONTRACTOR SHALL COORDINATE RELOCATIONS WITH THE NECESSARY UTILITY COMPANIES.
- CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR'S ACTIVITIES INVOLVING CONSTRUCTION, STAGING AREAS, AND ACCESS ROADS IN KIND. ALL DISTURBED NON-PAVED AREAS SHALL BE PLANTED WITH "IN-KIND" VEGETATION.
- CONTRACTOR SHALL SUBMIT AN M.O.T. PLAN CONFORMING TO FDOT INDEX NO. 600 AND AS REQUIRED IN THE PROJECT SPECIFICATIONS. THE PLAN SHALL PROVIDE FOR TWO-WAY TRAFFIC FLOW AT ALL TIMES. CONTRACTOR SHALL FOLLOW THE APPROVED PLAN THROUGHOUT PROJECT DURATION. ACCESS TO PRIVATE PROPERTIES AND PUBLIC SIDE STREETS SHALL BE PROVIDED AT ALL TIMES.
- CONTRACTOR SHALL SUBMIT A PROPOSED PHASING PLAN SHOWING BOTH CONSTRUCTION AND MAINTENANCE OF TRAFFIC PHASING.
- CONTRACTOR SHALL COORDINATE WITH THE NECESSARY UTILITY COMPANIES AND SUNSHINE 811 (811 OR 1-800-432-4770) FOR ALL UTILITY LOCATES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH CHAPTER 556 OF THE FLORIDA STATUTES: THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT.
- CONTRACTOR SHALL MAINTAIN A NEAT, ORDERLY, AND SAFE SITE AT ALL TIMES.
- ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF IN DANGER OF DAMAGE THE CONTRACTOR SHALL NOTIFY: NATIONAL GEODETIC INFORMATION SERVICES CENTER NOAA NATIONAL GEODETIC SURVEY, N/CG 17 SSMC 3, STATION 09202 SILVER SPRING, MARYLAND 20910 TELEPHONE NO. (301) 713-3242.
- CONTRACTOR SHALL APPLY FOR AND COMPLY WITH THE REQUIREMENTS OF THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.
- CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES SUCH AS SILT FENCES AND INLET PROTECTION WHERE NECESSARY IN ORDER TO COMPLY WITH THE STATE AND LOCAL WATER QUALITY STANDARDS AND NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) REQUIREMENTS. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE VILLAGE OF WELLINGTON, ALL INVOLVED UTILITY COMPANIES, THE PROJECT ENGINEER AND ALL REGULATORY AGENCIES.
- WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
 - REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
 - WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE DEPICTING EACH PHASE OF THE WORK.
- CONTRACTOR SHALL PROMPTLY REMOVE ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC ROADS AND FACILITIES DUE TO CONSTRUCTION.
- ALL EXCESS FILL AND DEBRIS FROM THE SITE SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- ALL UTILITIES (MANHOLE, VALVE, ELECTRIC RINGS AND TOPS) SHALL BE ADJUSTED TO NEW FINISH GRADES AND PROPERLY SET TO PAVEMENT CROSS SLOPE AS REQUIRED.
- CONTRACTOR SHALL COORDINATE WITH THE VILLAGE OF WELLINGTON FOR THE SELECTION OF PROPOSED CONSTRUCTION STAGING AREAS AND/OR STOCKPILING OF MATERIALS.
- CONTRACTOR SHALL COORDINATE ALL SITE WORK FOR PEDESTRIAN AND TRAFFIC CONTROL WITH THE VILLAGE OF WELLINGTON UTILITIES DEPARTMENT: ANJULI PANSE, P.E. OFFICE: 561-791-4145.
- CONTRACTOR SHALL LIMIT ACCESS AND CONSTRUCTION OPERATIONS TO WITHIN LIMITS OF THE PUBLIC ROAD RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF THE ROAD RIGHTS-OF-WAY.
- AREAS FOR THE STORAGE OF EXCAVATED MATERIAL ARE LIMITED. SUCH MATERIAL MAY BE REMOVED AND STORED OFFSITE AND RETURNED FOR BACKFILLING.
- CONTRACTOR SHALL HAVE NO TRENCHES OPEN AT THE END OF EACH WORK DAY. IF NECESSARY, TRENCHES SHALL BE TEMPORARILY BACKFILLED AND BARRICADED.
- THE AERIAL PHOTOGRAPH USED FOR THIS PROJECT WAS PREPARED FROM THE PALM BEACH COUNTY DATA BASE AND AS SUCH SHOULD BE USED ONLY AS SCHEMATICS.
- SOURCE AND DATE OF AERIAL PHOTOGRAPHY: PBC GIS DATED 2019.
- CONTRACTOR SHALL USE CAUTION AND TAKE THE NECESSARY SAFETY PRECAUTIONS WHILE WORKING ADJACENT TO OVERHEAD AND UNDERGROUND ELECTRIC.
- CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES AS REQUIRED TO MAINTAIN ROADWAY DRAINAGE AND OUTFALL DURING CONSTRUCTION ACTIVITIES.

SURVEY NOTES (PREPARED BY ENGENUITY GROUP, INC.):

- THE SURVEY DEPICTED HEREON IS CLASSIFIED AS A TOPOGRAPHIC SURVEY AND IS IN COMPLIANCE WITH CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE.
- ENGENUITY GROUP, INC. AND THE CERTIFYING SURVEYOR ACCEPT NO RESPONSIBILITY FOR RIGHT-OF-WAYS, EASEMENTS RESTRICTIONS OR OTHER MATTERS AFFECTING TITLE TO THE LANDS SURVEYED OTHER THAN THOSE RECITED IN THE CURRENT DEED AND/OR OTHER INSTRUMENT OF RECORD FURNISHED BY THE CLIENT.
- UNDER GROUND UTILITIES WERE SEARCHED FOR AND LOCATED BY ENGENUITY GROUP, INC. ENGENUITY GROUP, INC. HAS LOCATED THE MARKINGS AS PAINTED BY RITZEL MASON, INC.
- LAST DATE OF FIELD SURVEY: 12/16/2019
- ALL DISTANCES SHOWN HEREON ARE IN U.S. FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE NOTED.
- ACCURACY STATEMENT: A FIELD SURVEY WAS PERFORMED IN ACCORDANCE WITH CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATE STATUTES FOR TOPOGRAPHIC SURVEYS. THE ACCURACY OF CONTROL DATA WAS VERIFIED BY REDUNDANT MEASUREMENTS OF TRAVERSE CLOSURES AND EXCEEDS COMMERCIAL/HIGH RISK: LINEAR: 1 FOOT IN 10,000 FEET.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.
- ALL DIMENSIONS SHOWN HEREON ARE MEASURED UNLESS OTHERWISE NOTED.
- THIS SURVEY IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM TRANSVERSE MERCATOR, FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983 (1990 ADJUSTMENT).
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929) AND REFERENCE THE FOLLOWING BENCHMARK:

BENCHMARK NAME: HOMELAND ELEVATION 17.575 (NGVD 1929)

TO REACH THE STATION FROM THE INTERSECTION OF FOREST HILLS BOULEVARD AND US-441, GO SOUTH ON US-441 A DISTANCE OF 3.0 MILES TO 50TH STREET ON THE RIGHT. THEN GO WEST ON 50TH STREET .5 MILE TO THE STATION ON THE LEFT.

THE STATION IS A PALM BEACH COUNTY BRASS DISK SET IN A ROUND CONCRETE MONUMENT STAMPED "HOMELAND".

THE STATION IS LOCATED 6 FEET SOUTH OF THE SOUTH EDGE OF PAVEMENT, 38.0 FEET EAST-NORTHEAST OF A CATCH BASIN ON THE SOUTH SIDE OF THE ROAD AND 57.1 FEET WEST-NORTHWEST OF A METAL WITNESS SIGN IN THE BASE OF A POWER POLE.

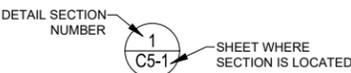
RECOVERED 06/05/2013.
- DENSE TREE LINE WAS DIGITIZED FROM CURRENT AERIAL PHOTOGRAPHY.
- BEARINGS SHOWN HEREON ARE BASED ON THE EASTERLY MOST NORTH RIGHT OF WAY LINE OF HOMELAND ROAD AS RECORDED IN OFFICIAL RECORDS BOOK 5642, PAGE 1593. LINE IS SAID TO BEAR N88°26'28"W AND ALL OTHER BEARINGS ARE RELATIVE THERETO.

NOTE: TO CONVERT FROM NGVD 29 TO NAVD 88 DATUM SUBTRACT 1.428 FEET FROM THE NGVD 29 ELEVATION.
 EXAMPLE: EL = 18.00' (NGVD 29)
 EL = 16.57' (NAVD 88)
 SOURCE: PBC PUBLISHED BENCHMARK "HOMELAND"

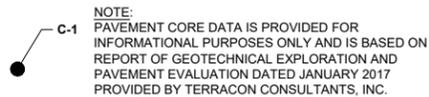
ENGINEERING LEGEND:

AASHTO	ASSOCIATION OF AMERICAN STATE HIGHWAY TRANSPORTATION OFFICIALS	FM	FORCEMAIN	TYP	TYPICAL
BL	BASELINE	INV	INVERT	VCP	VITRIFIED CLAY PIPE
BTM	BOTTOM	L.F.	LINEAR FEET	WM	WATERMAIN
--- bE ---	BURIED ELECTRIC (EXISTING UTILITY LOCATION)	MH	MANHOLE	--- W ---	WATERMAIN (EXISTING UTILITY LOCATION)
--- BFO ---	BURIED FIBER OPTIC CABLE (EXISTING UTILITY LOCATION)	NGVD	NATIONAL GEODETIC VERTICAL DATUM	W	WIDTH; WEST
CL	CENTERLINE	N	NORTH		
CIP	CAST IRON PIPE	N:	NORTHING		
CONC	CONCRETE	NO.	NUMBER		
CONST.	CONSTRUCTION	PVC	POLYVINYL CHLORIDE PIPE		
STA: 59+75.16		PI	POINT OF INTERSECTION		
OFF: 28.50'R		PC	POINT OF CURVATURE		
EL: 16.46	CONTROL POINT	PT	POINT OF TANGENCY		
		R	RADIUS		
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE		
DBC	DIRECT BURIED CABLE	RJ	RESTRAIN JOINT		
DIA.	DIAMETER	SP	SAMPLE POINT		
DIP	DUCTILE IRON PIPE	SS	SANITARY SEWER		
E	EAST	SIGN	SIGN		
E:	EASTING	STA	STATION		
EL	ELEVATION	--- sd ---	STORM DRAIN (EXISTING UTILITY LOCATION)		
EXIST	EXISTING	ST	STORM SEWER		
FLG	FLANGE	STR	STRUCTURE		
		S	SOUTH		
		TH	TEST HOLE		
		T.O.P.	TOP OF PIPE		

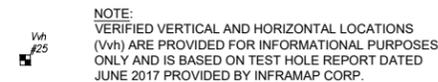
CIVIL DETAIL, CALL OUT SYMBOLS



PAVEMENT CORE LOCATION



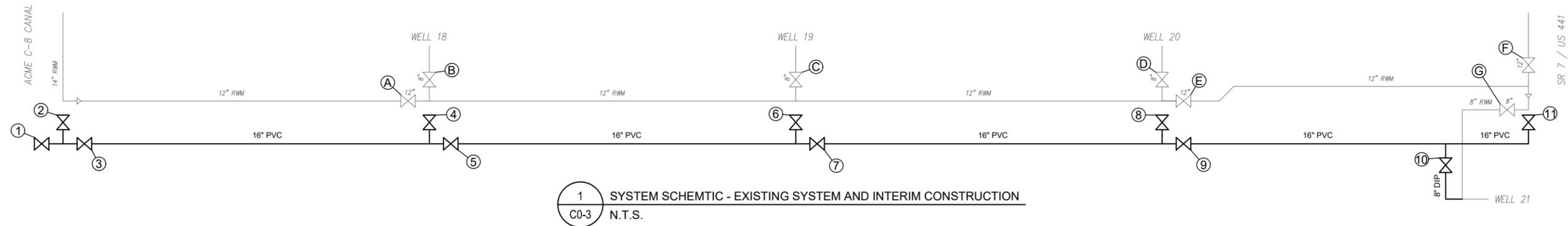
SUBSURFACE UTILITY EXPLORATION



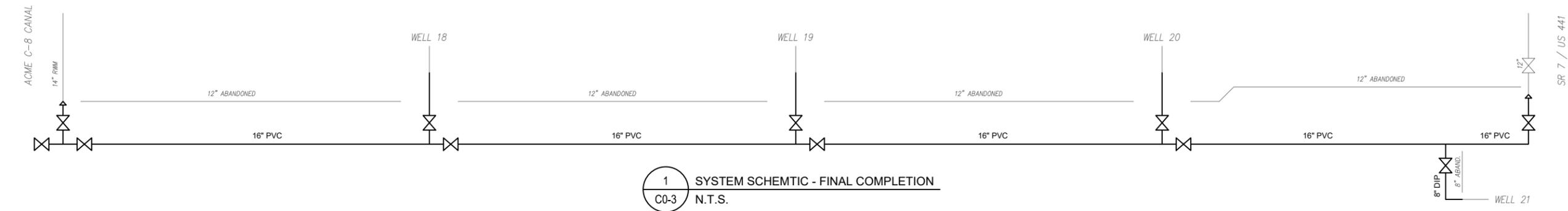
LOCATION AND KEY SHEET MAP, GENERAL NOTES, AND LEGEND

SEAL SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693	FLORIDA E.B. NO. 48 MOCK • ROOS CONSULTING ENGINEERS 5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com	FLORIDA L.B. NO. 48 FIELD: EGI DRAWN: SMR DESIGN: SMS APPR: SMS SCALE: AS SHOWN	50TH STREET SOUTH RAW WATER MAIN REPLACEMENT	DATE: MARCH 2020 P.A. NO. B8704.30 DWG. NO. 44-41-25-02 SHEET: C0-2
			THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA	
NO. DATE BY REVISION				

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1 SYSTEM SCHEMATIC - EXISTING SYSTEM AND INTERIM CONSTRUCTION
C0-3 N.T.S.



1 SYSTEM SCHEMATIC - FINAL COMPLETION
C0-3 N.T.S.

NOTES:

1. CONTRACTOR SHALL POTHOLE ALL CONNECTION POINTS TO CONFIRM AS-BUILT CONFIGURATION AND ELEVATION PRIOR TO INSTALLING ANY PIPE. SHOULD ANY DEVIATIONS FROM THE DESIGN BE REQUIRED, CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IMMEDIATELY.
2. THE NEW 16" RAW WATER MAIN SHALL BE INSTALLED FROM THE WEST TO THE EAST IN AN EFFORT TO KEEP WELL 21 ONLINE FOR AS LONG AS POSSIBLE.
3. THE POINT OF CONNECTION FOR TESTING WATER IS ON THE EAST END OF THE PROJECT NEAR WELL 21.

CONSTRUCTION SEQUENCING:

1. THE NEW 16" PVC RAW WATER MAIN SHALL BE INSTALLED FROM WEST TO EAST IN AN EFFORT TO KEEP WELL 21 ONLINE FOR AS LONG AS POSSIBLE. WHEN THE NEW 16" MAIN REACHES THE POINT OF THE 8" CROSSING FROM WELL 21, THE WELL WILL NEED TO GO OFFLINE AS THE EXISTING 8" DIP WILL NEED TO BE REMOVED UP TO EXISTING VALVE 'G' AT THIS TIME. CLOSE VALVE 'G' AND REMOVE 8" DIP BETWEEN THE EXISTING ROAD CROSSING AND THE VALVE.
2. FLUSH, DISINFECT, AND PRESSURE TEST THE NEW 16" PVC RAW WATER MAIN. ONCE THE MAIN HAS RECEIVED HEALTH DEPARTMENT CLEARANCE, PROCEED WITH CONNECTION.
3. PERFORM THE EAST CONNECTION AS SHOWN IN THE 'STEP 2: INTERIM OPERATION' PORTION OF DETAIL 1 ON SHEET C5-6.
 - 3.1. CLOSE EXISTING VALVES 'E' AND 'F'
 - 3.2. REMOVE THE EXISTING 12"x8" REDUCER, 8" PIPE AND 8" VALVE AS SHOWN
 - 3.3. INSTALL 16"x12" REDUCER ON EXISTING 12" SPOOL PIECE AND CONNECT TO NEW VALVE '11'
4. OPEN EXISTING VALVES 'E' AND 'F' AND PERFORM VISUAL INSPECTION
5. OPEN NEW VALVE '11'
6. PERFORM THE WELL 21 CONNECTION AS SHOWN IN DETAIL 2 ON SHEET C5-6
7. OPEN NEW VALVE '10' AND BRING WELL 21 BACK ONLINE CONNECTED TO NEW MAIN
8. TAKE WELLS 18, 19, AND 20 OFFLINE.
9. CLOSE EXISTING 12" VALVES 'A' AND 'E'
10. PERFORM WELL 19 CONNECTION AS SHOWN IN DETAIL 1 ON SHEET C5-5 WITH THE FOLLOWING MODIFICATION:
 - 10.1. REMOVE EXISTING VALVE AND TEE
 - 10.2. AS SOON AS POSSIBLE, INSTALL THE 12" MJ CAPS AS SHOWN.

- 10.3. OPEN EXISTING VALVES 'A' AND 'E' AND BRING WELLS 18 AND 20 BACK ONLINE
- 10.4. COMPLETE THE WELL 19 CONNECTION AS SHOWN IN THE DETAIL
11. OPEN NEW VALVE '6' AND BRING WELL 19 BACK ONLINE CONNECTED TO THE NEW MAIN
12. TAKE WELL 20 OFFLINE AND CLOSE EXISTING VALVE 'E'
13. PERFORM THE WELL 20 CONNECTION AS SHOWN IN DETAIL 1 ON SHEET C5-5
14. OPEN NEW VALVE '8' AND BRING WELL 20 BACK ONLINE CONNECTED TO THE NEW MAIN
15. TAKE WELL 18 OFFLINE AND CLOSE EXISTING VALVE 'A'
16. PERFORM THE WELL 18 CONNECTION AS SHOWN IN DETAIL 1 ON SHEET C5-5
17. OPEN NEW VALVE '4' AND BRING WELL 18 BACK ONLINE CONNECTED TO THE NEW MAIN
18. PERFORM THE WEST CONNECTION AS SHOWN IN THE 'STEP 2: RECONNECTION' PORTION OF DETAIL 2 ON SHEET C5-5
 - 18.1. CLOSE THE NEAREST ZONE VALVE TO THE NORTH ON THE 14" RAW WATER MAIN
 - 18.2. REMOVE THE EXISTING 14" TEE AND 14"x12" REDUCER
 - 18.3. INSTALL 16"x14" REDUCER ON EXISTING 14" MAIN AND CONNECT TO NEW VALVE '2'
19. OPEN ZONE VALVE TO THE NORTH AND PERFORM VISUAL INSPECTION
20. OPEN NEW VALVE '2'
21. PERFORM THE FINAL PORTION OF THE EAST CONNECTION AS SHOWN IN DETAIL 1 ON SHEET C5-6
 - 21.1. CLOSE NEW VALVE '11' AND EXISTING VALVE 'F'
 - 21.2. REMOVE A PORTION OF THE EXISTING 12" MAIN ON THE WEST BRANCH OF THE TEE AND INSTALL A NEW 12" PLUG
22. OPEN NEW VALVE '11' AND EXISTING VALVE 'F' AND PERFORM A VISUAL INSPECTION
23. GROUT FILL THE REMAINING ABANDONED SECTIONS OF 12" MAIN
24. GROUT FILL THE REMAINING ABANDONED SECTION OF 8" MAIN UNDER 50TH STREET
25. COMPLETE SURFACE RESTORATION

PLOT DATE: Mar 26, 2020 - 5:28pm XREFS: IMAGES: BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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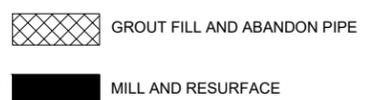
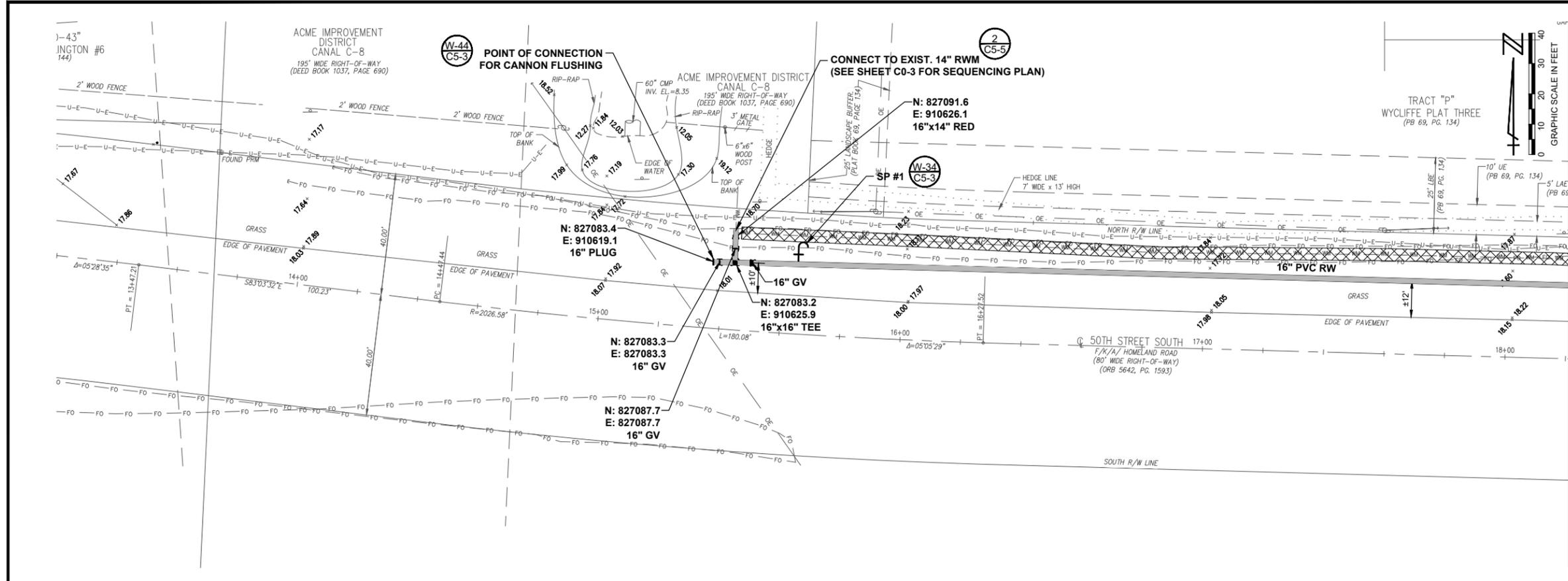
SEAL
SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693
DATE

FLORIDA E.B. NO. 48
MOCK • ROOS CONSULTING ENGINEERS
5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com

FLORIDA L.B. NO. 48
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DRAWN: SMR
DESIGN: SMS
APPR: SMS
SCALE: AS SHOWN

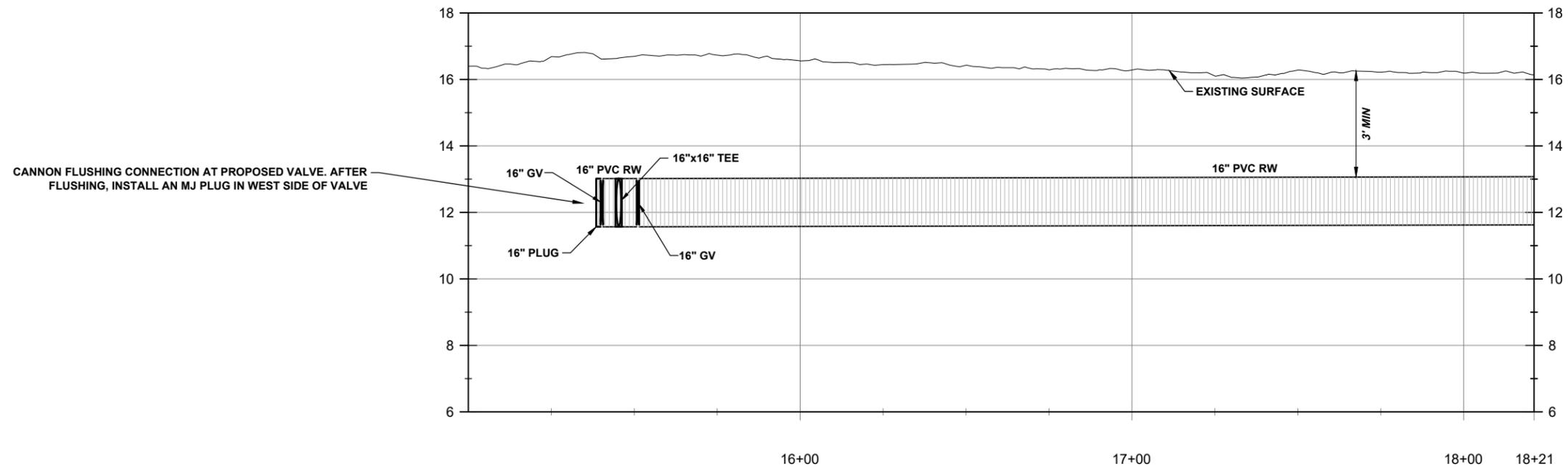
CONSTRUCTION SEQUENCING PLAN	
50TH STREET SOUTH RAW WATER MAIN REPLACEMENT ----- THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA	

DATE:	MARCH 2020
P.A. NO.	B8704.30
DWG. NO.	44-41-25-02
SHEET:	C0-3



- NOTES:
- PIPE INSTALLED AT MIN. 36" OF COVER.
 - EXISTING RAW WATER MAIN TO REMAIN IN SERVICE UNTIL PROPOSED RAW WATER MAIN HAS BEEN PRESSURE TESTED AND CLEARED. ONCE THE PROPOSED MAIN IS CLEARED, FOLLOW THE APPROVED SEQUENCING PLAN TO RECONNECT EACH EXISTING WELL PIPE TO THE NEW RAW WATER MAIN. ONCE THE WELLS ARE ALL RECONNECTED TO THE NEW RAW WATER MAIN, GROUT FILL AND ABANDON THE EXISTING RAW WATER MAIN

MATCHLINE: SEE SHEET C1-2



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PLAN AND PROFILE

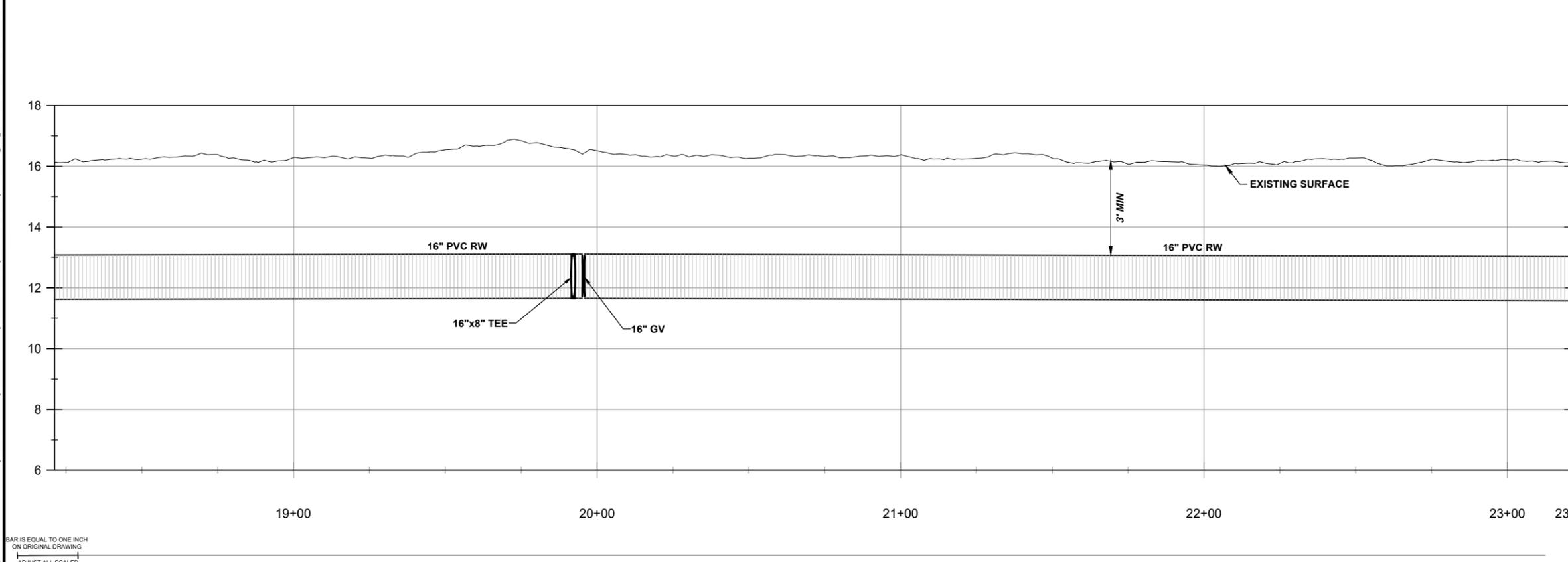
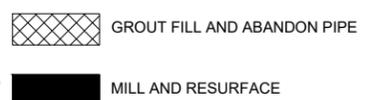
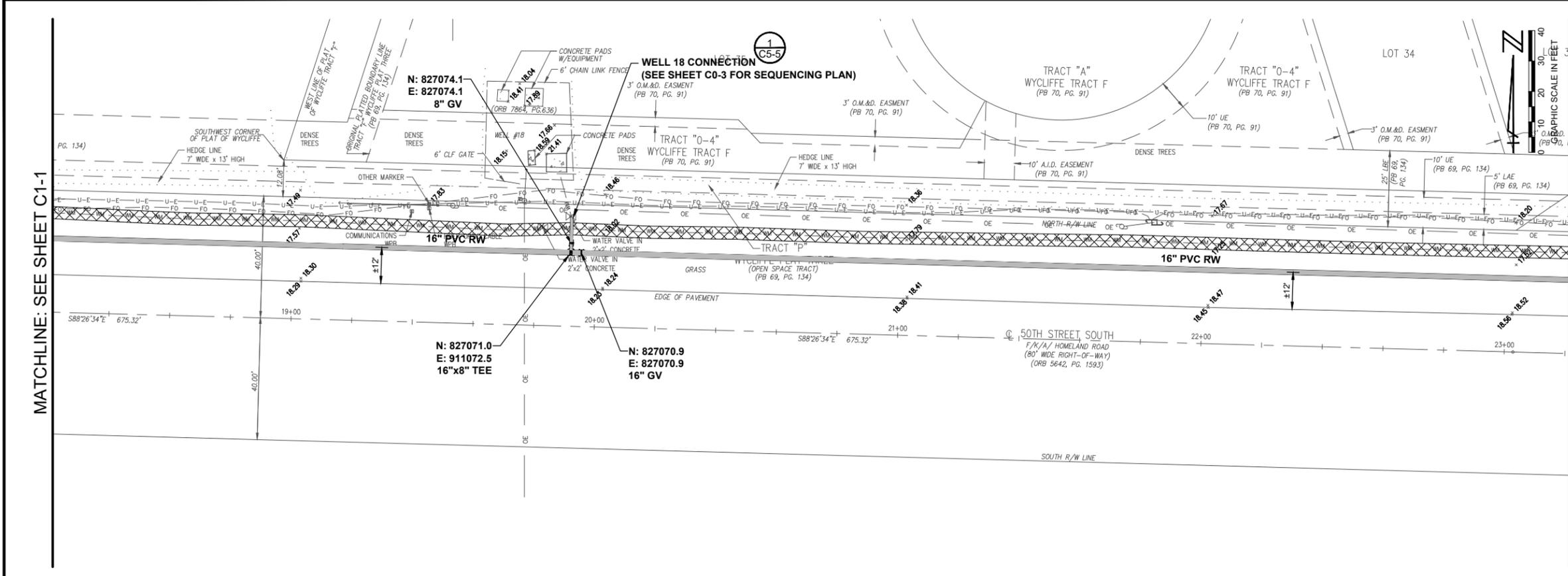
50TH STREET SOUTH RAW WATER MAIN REPLACEMENT		DATE: MARCH 2020
THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA		P.A. NO. B8704.30
		DWG. NO. 44-41-25-02
		SHEET: C1-1

NO.	DATE	BY	REVISION

SEAL	FLORIDA E.B. NO. 48
SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693	
DATE	

FLORIDA L.B. NO. 48
MOCK • ROOS
CONSULTING ENGINEERS
5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com

FIELD: EGI
DRAWN: SMR
DESIGN: SMS
APPR: SMS
SCALE: AS SHOWN

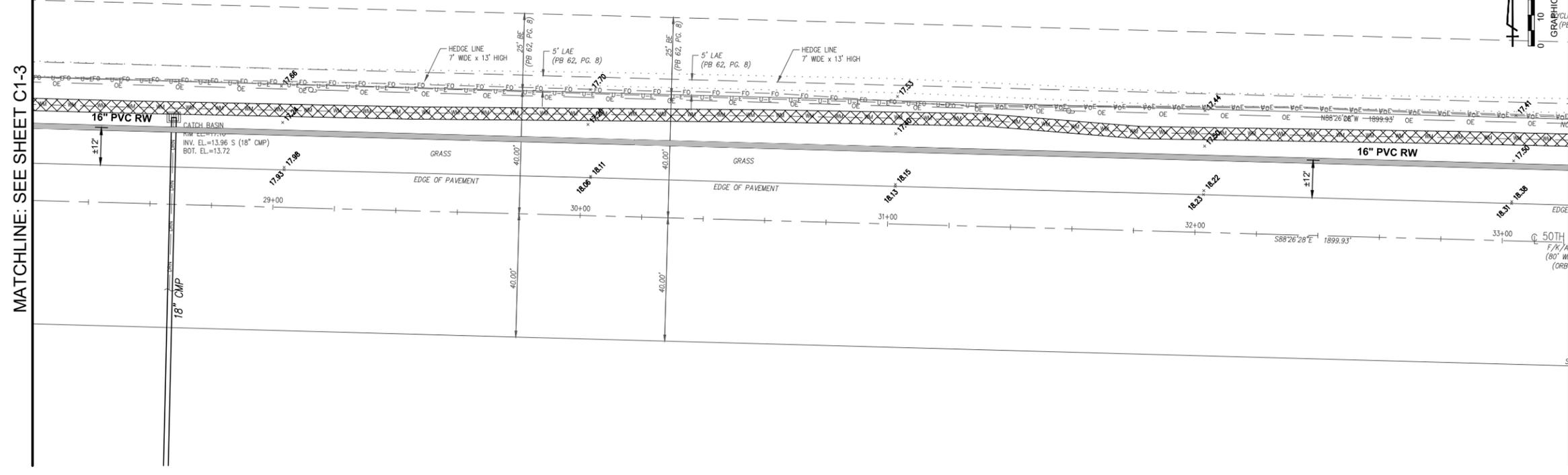


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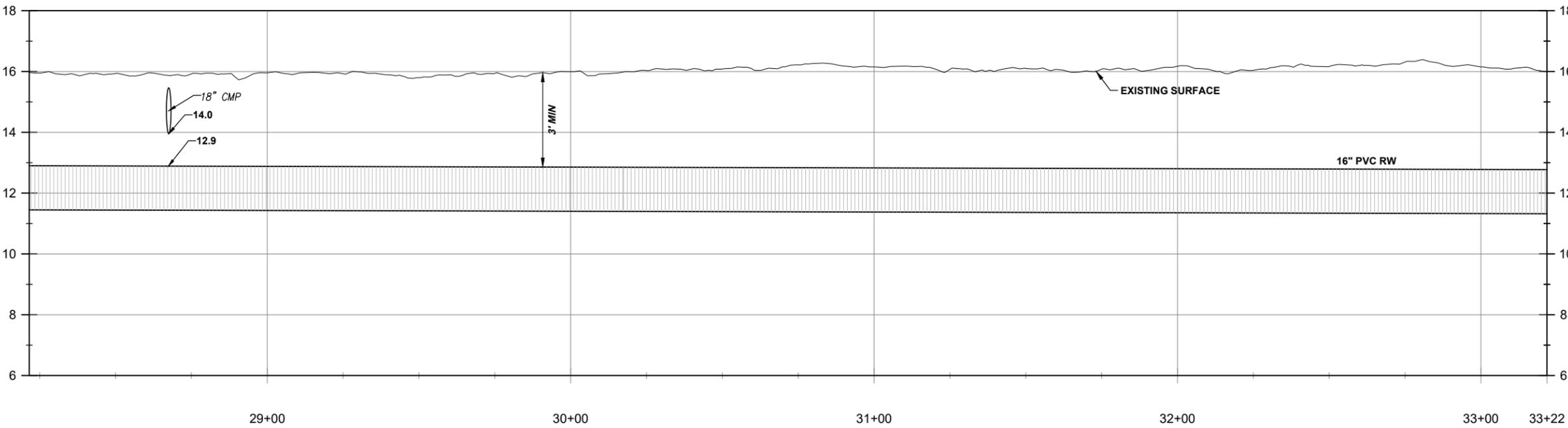
MATCHLINE: SEE SHEET C1-3

MATCHLINE: SEE SHEET C1-5



- GROUT FILL AND ABANDON PIPE
- MILL AND RESURFACE

- NOTES:
1. PIPE INSTALLED AT MIN. 36" OF COVER.
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PLAN AND PROFILE

PLOT DATE: Mar 26, 2020 - 5:28pm XREFS: I:\CD\50R\WBD05.dwg I:\CD\50R\WBD01.dwg I:\CD\50R\WBD02.dwg I:\CD\50R\WBD03.dwg I:\CD\50R\WBD04.dwg I:\CD\50R\WBD05.dwg I:\CD\50R\WBD06.dwg I:\CD\50R\WBD07.dwg I:\CD\50R\WBD08.dwg I:\CD\50R\WBD09.dwg I:\CD\50R\WBD10.dwg I:\CD\50R\WBD11.dwg I:\CD\50R\WBD12.dwg I:\CD\50R\WBD13.dwg I:\CD\50R\WBD14.dwg I:\CD\50R\WBD15.dwg I:\CD\50R\WBD16.dwg I:\CD\50R\WBD17.dwg I:\CD\50R\WBD18.dwg I:\CD\50R\WBD19.dwg I:\CD\50R\WBD20.dwg I:\CD\50R\WBD21.dwg I:\CD\50R\WBD22.dwg I:\CD\50R\WBD23.dwg I:\CD\50R\WBD24.dwg I:\CD\50R\WBD25.dwg I:\CD\50R\WBD26.dwg I:\CD\50R\WBD27.dwg I:\CD\50R\WBD28.dwg I:\CD\50R\WBD29.dwg I:\CD\50R\WBD30.dwg I:\CD\50R\WBD31.dwg I:\CD\50R\WBD32.dwg I:\CD\50R\WBD33.dwg I:\CD\50R\WBD34.dwg I:\CD\50R\WBD35.dwg I:\CD\50R\WBD36.dwg I:\CD\50R\WBD37.dwg I:\CD\50R\WBD38.dwg I:\CD\50R\WBD39.dwg I:\CD\50R\WBD40.dwg I:\CD\50R\WBD41.dwg I:\CD\50R\WBD42.dwg I:\CD\50R\WBD43.dwg I:\CD\50R\WBD44.dwg I:\CD\50R\WBD45.dwg I:\CD\50R\WBD46.dwg I:\CD\50R\WBD47.dwg I:\CD\50R\WBD48.dwg I:\CD\50R\WBD49.dwg I:\CD\50R\WBD50.dwg I:\CD\50R\WBD51.dwg I:\CD\50R\WBD52.dwg I:\CD\50R\WBD53.dwg I:\CD\50R\WBD54.dwg I:\CD\50R\WBD55.dwg I:\CD\50R\WBD56.dwg I:\CD\50R\WBD57.dwg I:\CD\50R\WBD58.dwg I:\CD\50R\WBD59.dwg I:\CD\50R\WBD60.dwg I:\CD\50R\WBD61.dwg I:\CD\50R\WBD62.dwg I:\CD\50R\WBD63.dwg I:\CD\50R\WBD64.dwg I:\CD\50R\WBD65.dwg I:\CD\50R\WBD66.dwg I:\CD\50R\WBD67.dwg I:\CD\50R\WBD68.dwg I:\CD\50R\WBD69.dwg I:\CD\50R\WBD70.dwg I:\CD\50R\WBD71.dwg I:\CD\50R\WBD72.dwg I:\CD\50R\WBD73.dwg I:\CD\50R\WBD74.dwg I:\CD\50R\WBD75.dwg I:\CD\50R\WBD76.dwg I:\CD\50R\WBD77.dwg I:\CD\50R\WBD78.dwg I:\CD\50R\WBD79.dwg I:\CD\50R\WBD80.dwg I:\CD\50R\WBD81.dwg I:\CD\50R\WBD82.dwg I:\CD\50R\WBD83.dwg I:\CD\50R\WBD84.dwg I:\CD\50R\WBD85.dwg I:\CD\50R\WBD86.dwg I:\CD\50R\WBD87.dwg I:\CD\50R\WBD88.dwg I:\CD\50R\WBD89.dwg I:\CD\50R\WBD90.dwg I:\CD\50R\WBD91.dwg I:\CD\50R\WBD92.dwg I:\CD\50R\WBD93.dwg I:\CD\50R\WBD94.dwg I:\CD\50R\WBD95.dwg I:\CD\50R\WBD96.dwg I:\CD\50R\WBD97.dwg I:\CD\50R\WBD98.dwg I:\CD\50R\WBD99.dwg I:\CD\50R\WBD100.dwg

NO.	DATE	BY	REVISION

SEAL	FLORIDA E.B. NO. 48
SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693	FLORIDA L.B. NO. 48
DATE	

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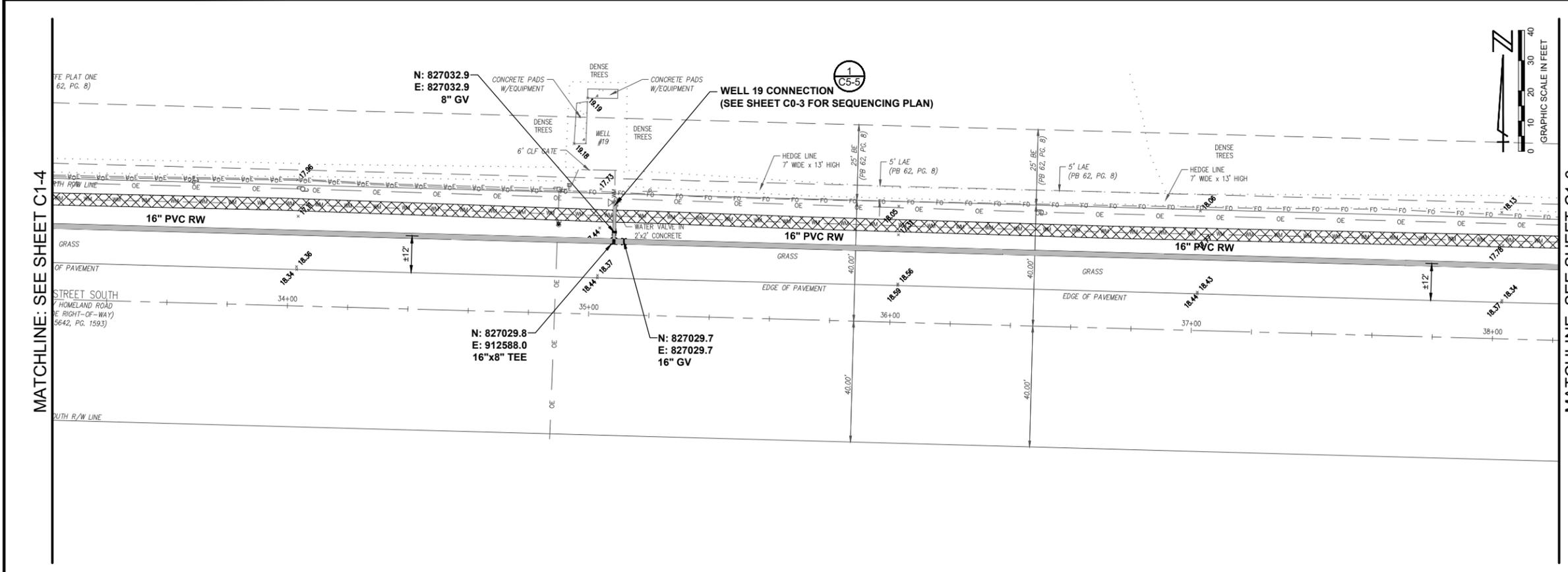
5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com

FIELD: EGI
DRAWN: SMR
DESIGN: SMS
APPR: SMS
SCALE: AS SHOWN

50TH STREET SOUTH
RAW WATER MAIN REPLACEMENT

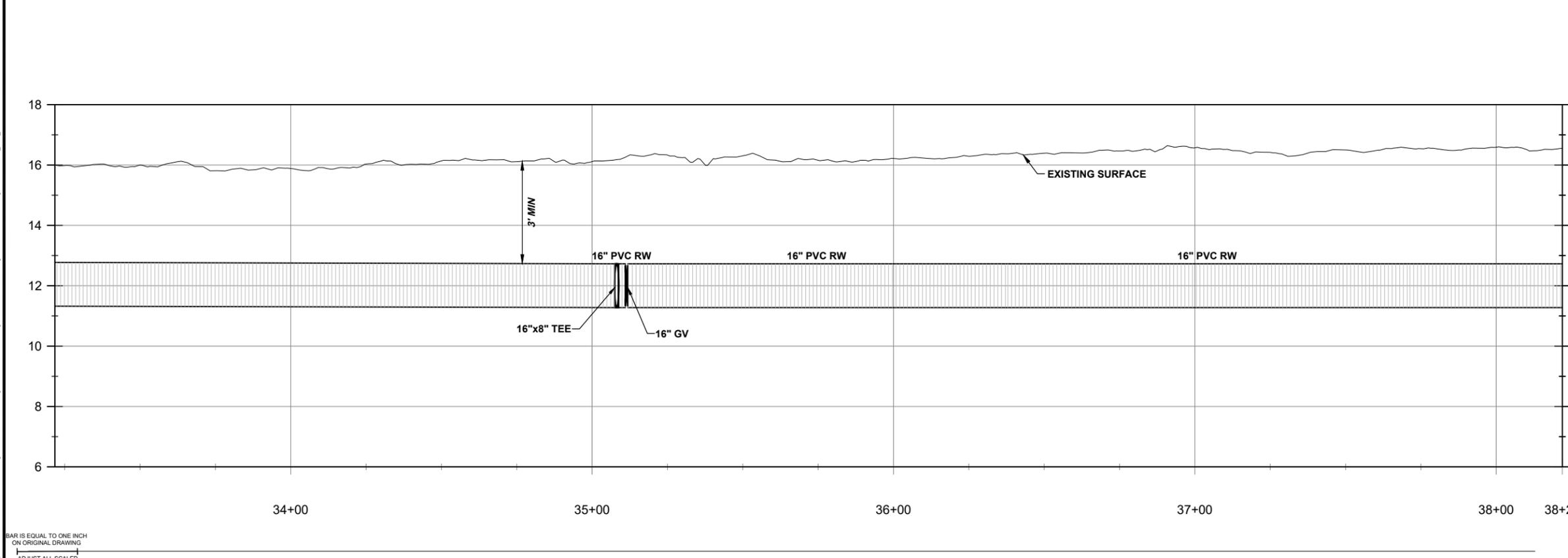
THE VILLAGE OF WELLINGTON
PALM BEACH COUNTY, FLORIDA

DATE:	MARCH 2020
P.A. NO.:	B8704.30
DWG. NO.:	44-41-25-02
SHEET:	C1-4

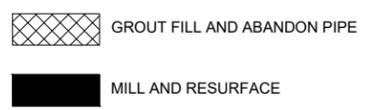
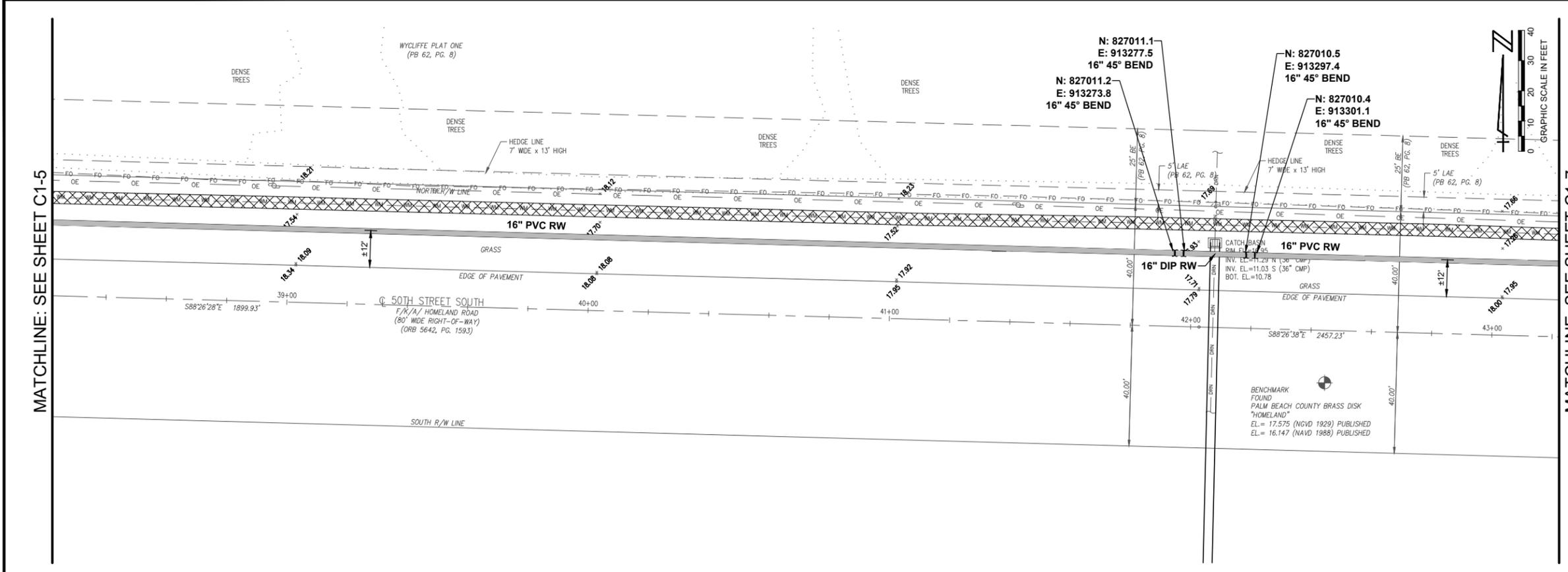


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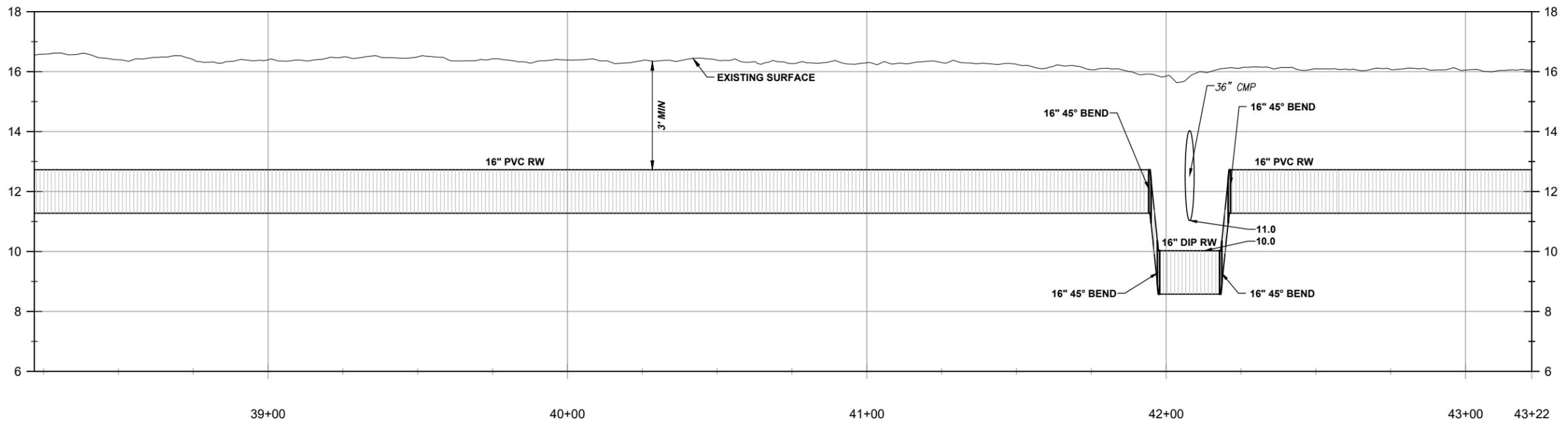
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NO. DATE BY REVISION								



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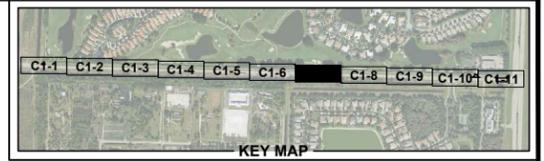
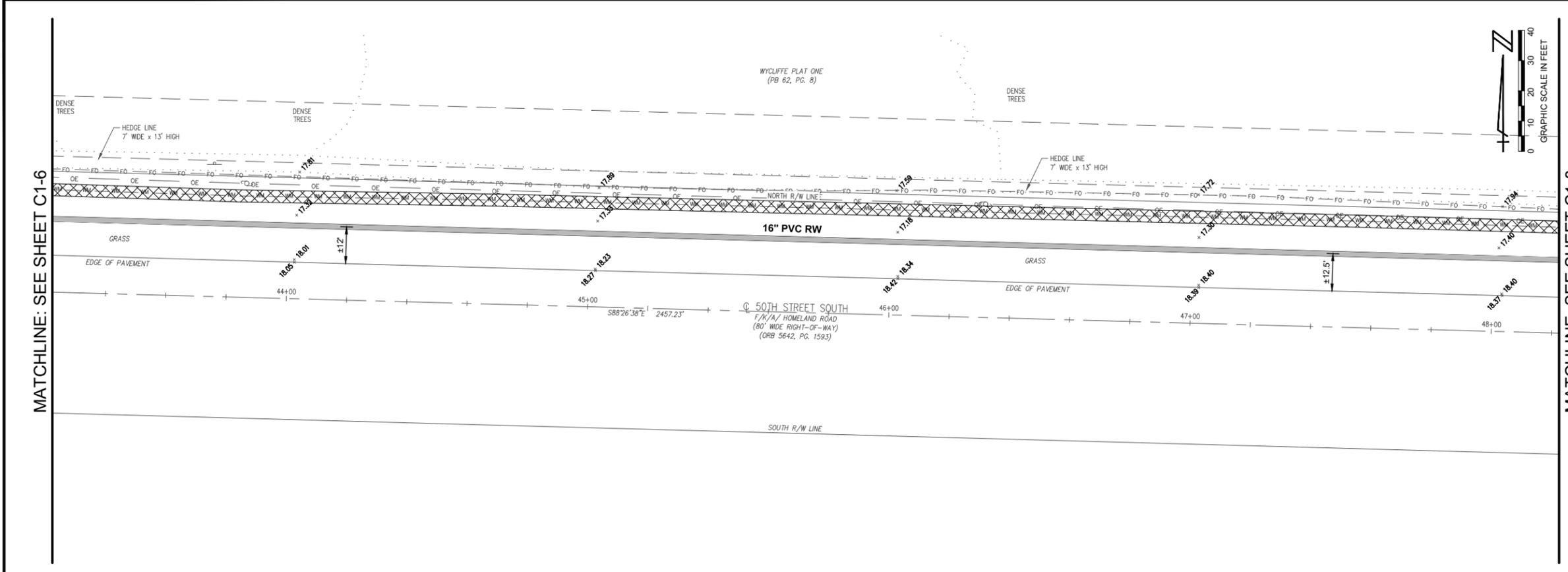
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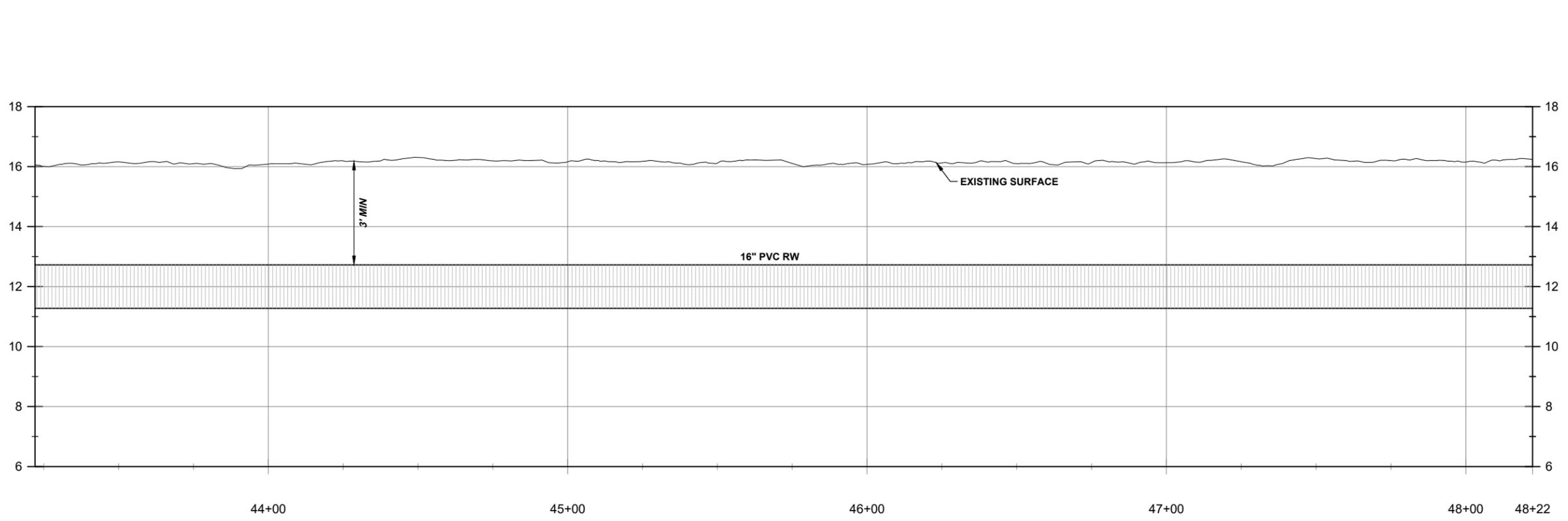
BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

CADD FILE: F:\well\50r\CAD\DWG\50RWC01 C1-1.dwg		NO. DATE BY REVISION		SEAL SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693		FLORIDA E.B. NO. 48 MOCK • ROOS CONSULTING ENGINEERS 5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com		FLORIDA L.B. NO. 48 FIELD: EGI DRAWN: SMR DESIGN: SMS APPR: SMS SCALE: AS SHOWN		PLAN AND PROFILE 50TH STREET SOUTH RAW WATER MAIN REPLACEMENT THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA		DATE: MARCH 2020 P.A. NO. B8704.30 DWG. NO. 44-41-25-02 SHEET: C1-6	
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- GROUT FILL AND ABANDON PIPE
- MILL AND RESURFACE

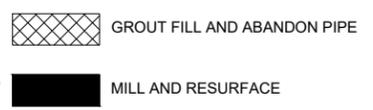
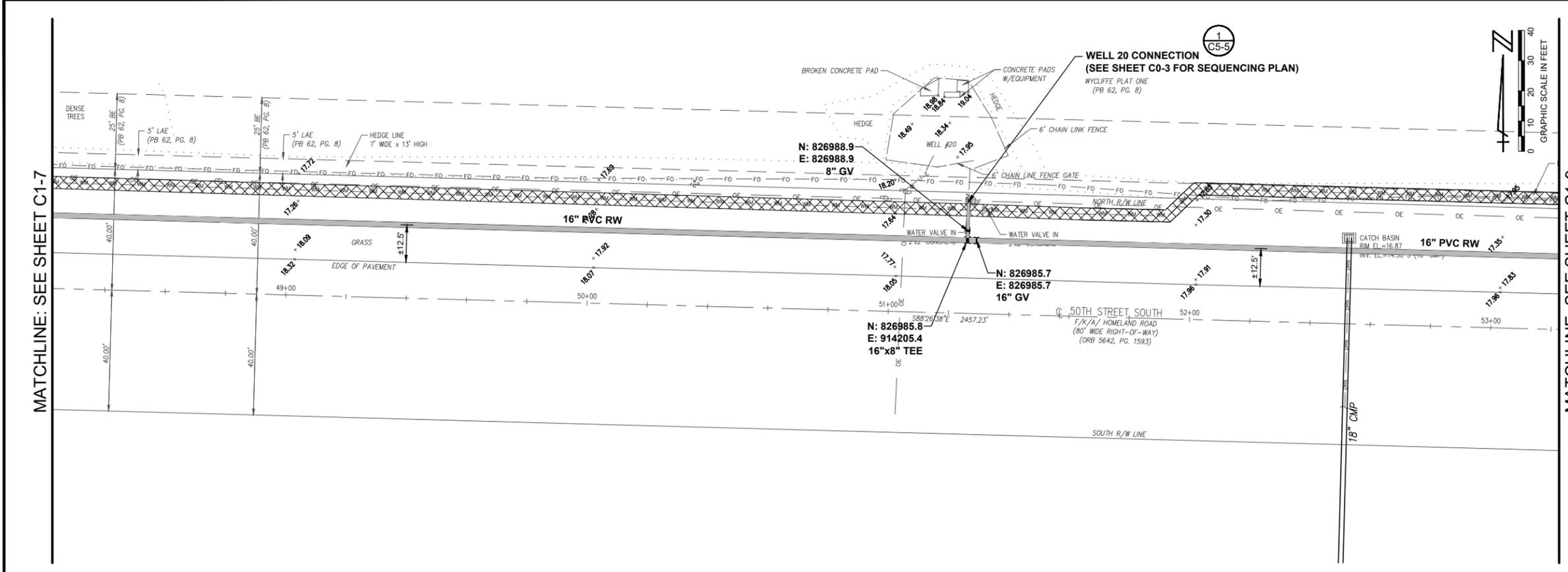
- NOTES:
1. PIPE INSTALLED AT MIN. 36" OF COVER.
 2. EXISTING RAW WATER MAIN TO REMAIN IN SERVICE UNTIL PROPOSED RAW WATER MAIN HAS BEEN PRESSURE TESTED AND CLEARED. ONCE THE PROPOSED MAIN IS CLEARED, FOLLOW THE APPROVED SEQUENCING PLAN TO RECONNECT EACH EXISTING WELL PIPE TO THE NEW RAW WATER MAIN. ONCE THE WELLS ARE ALL RECONNECTED TO THE NEW RAW WATER MAIN, GROUT FILL AND ABANDON THE EXISTING RAW WATER MAIN



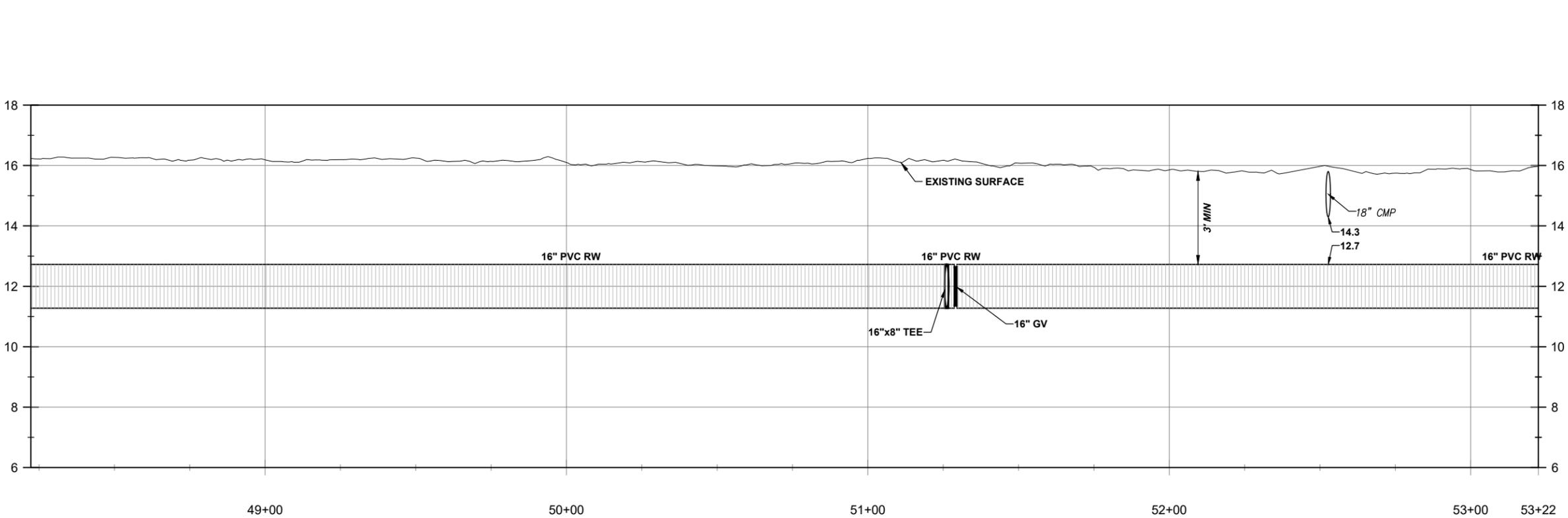
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BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
 T ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

PLAN AND PROFILE				FLORIDA E.B. NO. 48		FLORIDA L.B. NO. 48		FIELD: EGI		DATE: MARCH 2020	
50TH STREET SOUTH				SPENCER M. SCHROEDER		MOCK • ROOS		DRAWN: SMR		P.A. NO. B8704.30	
RAW WATER MAIN REPLACEMENT				FLORIDA P.E. NO. 65693		CONSULTING ENGINEERS		DESIGN: SMS		DWG. NO. 44-41-25-02	
THE VILLAGE OF WELLINGTON				DATE		5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com		APPR: SMS		SHEET: C1-7	
PALM BEACH COUNTY, FLORIDA				NO. DATE BY REVISION		SCALE: AS SHOWN		SCALE: AS SHOWN		DATE	



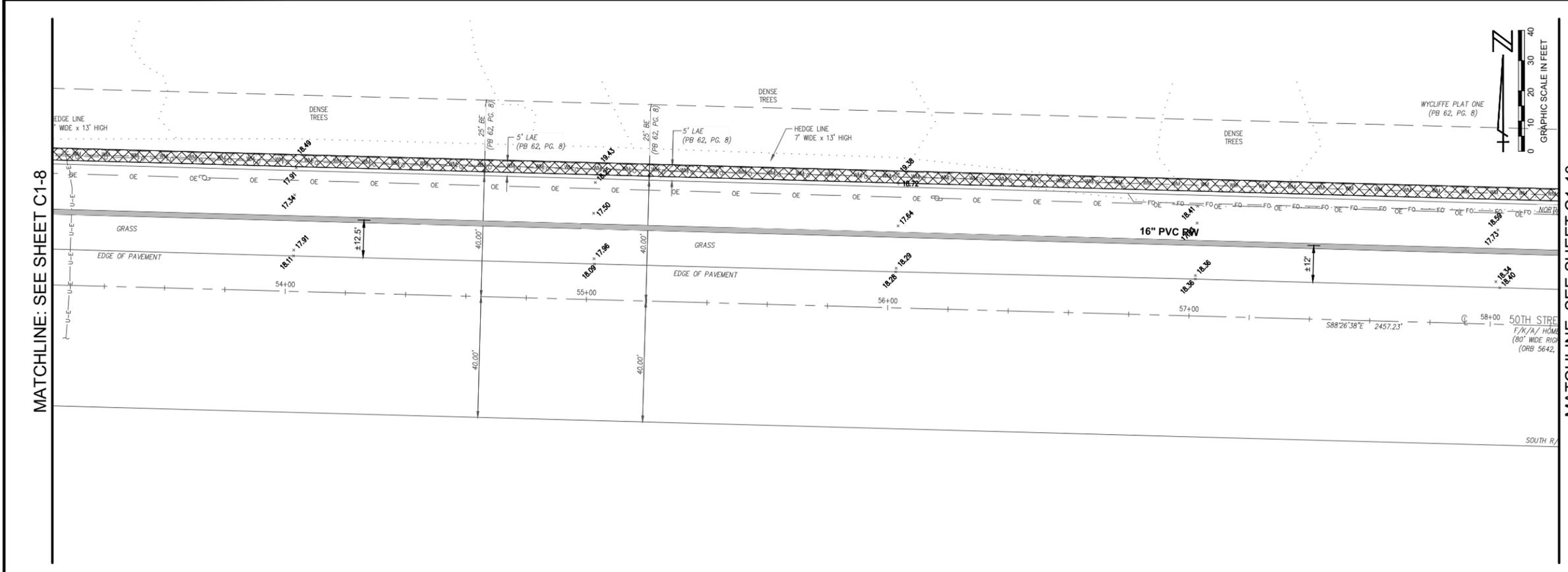
- NOTES:
- PIPE INSTALLED AT MIN. 36" OF COVER.
 - EXISTING RAW WATER MAIN TO REMAIN IN SERVICE UNTIL PROPOSED RAW WATER MAIN HAS BEEN PROPOSED TESTED AND CLEARED. ONCE THE PROPOSED MAIN IS CLEARED, FOLLOW THE APPROVED SEQUENCING PLAN TO RECONNECT EACH EXISTING WELL PIPE TO THE NEW RAW WATER MAIN. ONCE THE WELLS ARE ALL RECONNECTED TO THE NEW RAW WATER MAIN, GROUT FILL AND ABANDON THE EXISTING RAW WATER MAIN



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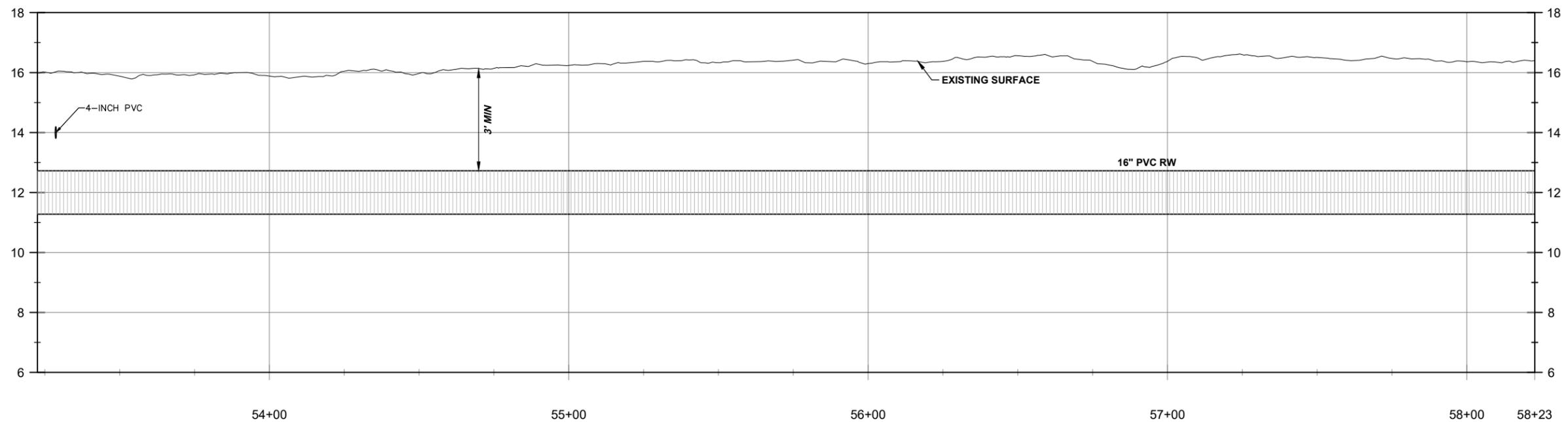
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CADD FILE: F:\well\50r\CAD\DWG\50RWC01 C1-1.dwg		NO. DATE BY REVISION		SEAL SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693		FLORIDA E.B. NO. 48 MOCK • ROOS CONSULTING ENGINEERS 5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com		FLORIDA L.B. NO. 48 FIELD: EGI DRAWN: SMR DESIGN: SMS APPR: SMS SCALE: AS SHOWN		PLAN AND PROFILE 50TH STREET SOUTH RAW WATER MAIN REPLACEMENT --- THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA		DATE: MARCH 2020 P.A. NO. B8704.30 DWG. NO. 44-41-25-02 SHEET: C1-8	
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- GROUT FILL AND ABANDON PIPE
- MILL AND RESURFACE

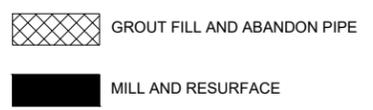
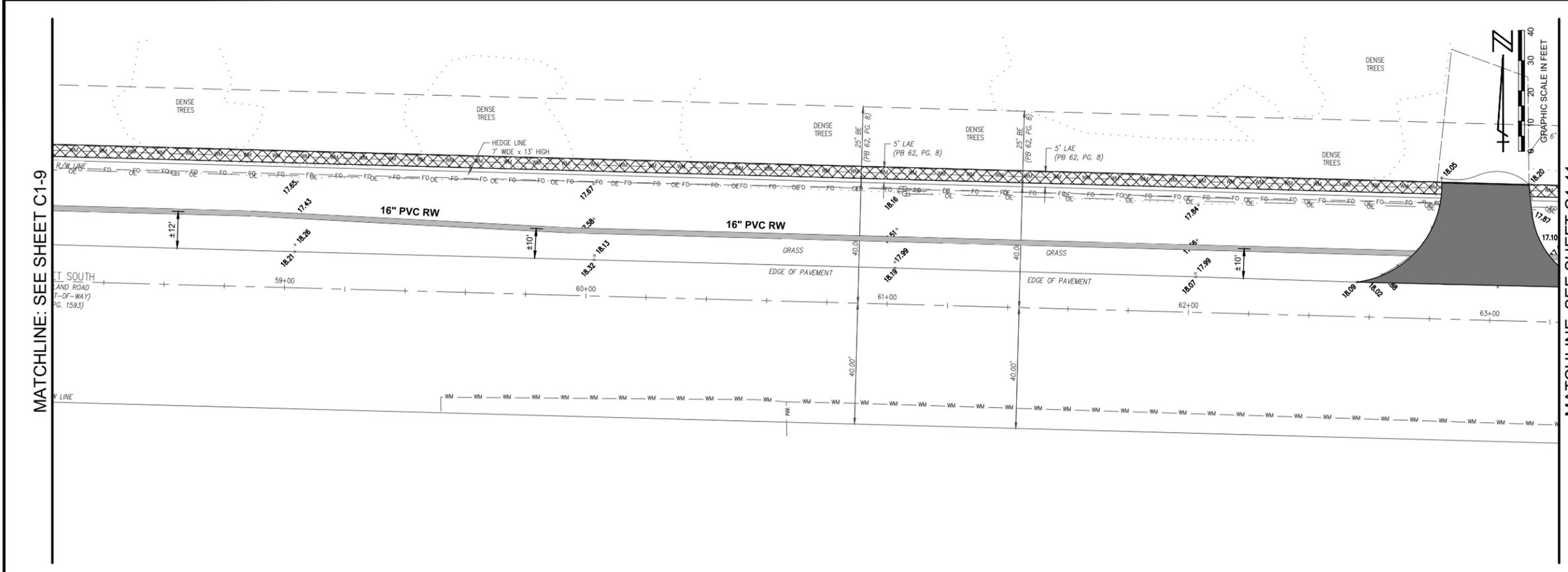
- NOTES:
1. PIPE INSTALLED AT MIN. 36" OF COVER.
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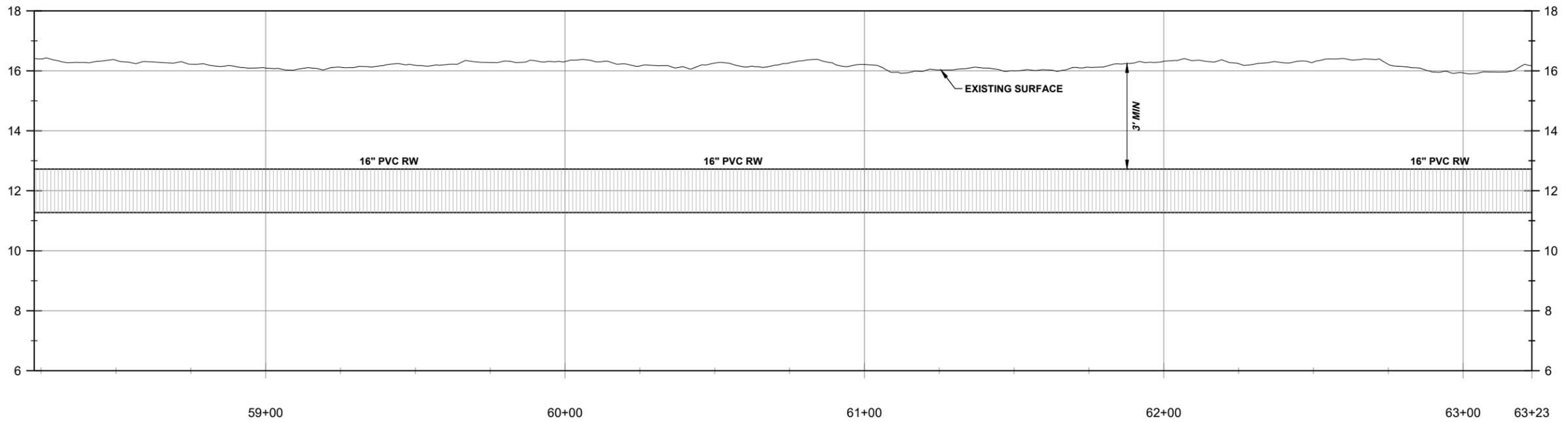
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SEAL SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693				FLORIDA E.B. NO. 48 MOCK • ROOS CONSULTING ENGINEERS 5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com		FLORIDA L.B. NO. 48 FIELD: EGI DRAWN: SMR DESIGN: SMS APPR: SMS SCALE: AS SHOWN		PLAN AND PROFILE 50TH STREET SOUTH RAW WATER MAIN REPLACEMENT THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA		DATE: MARCH 2020 P.A. NO. B8704.30 DWG. NO. 44-41-25-02 SHEET: C1-9	
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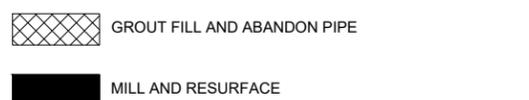
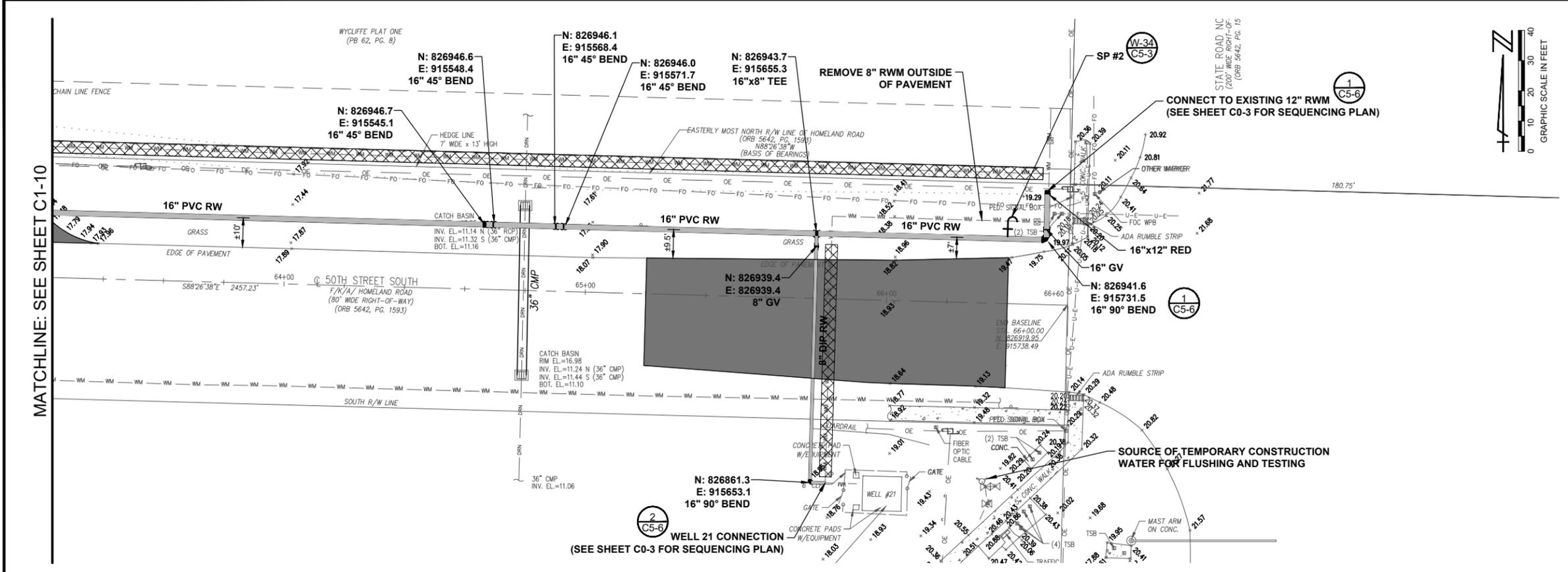
- NOTES:
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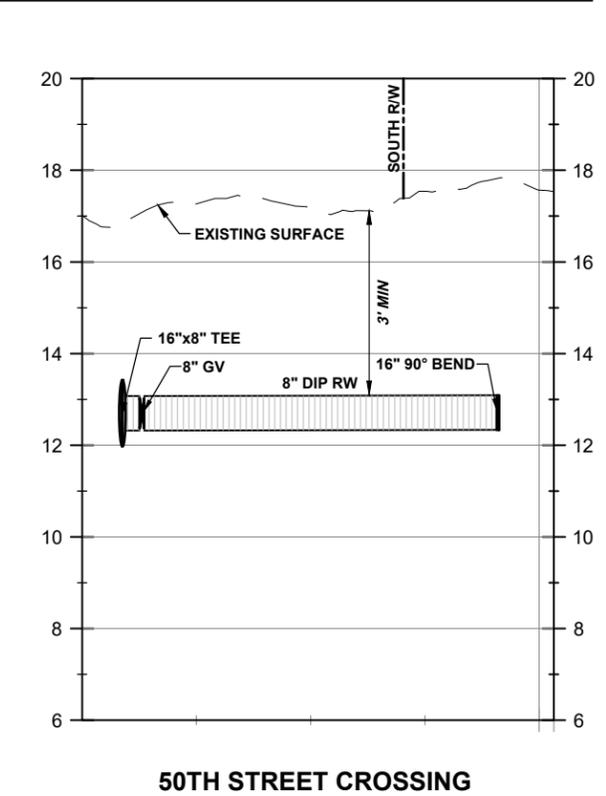
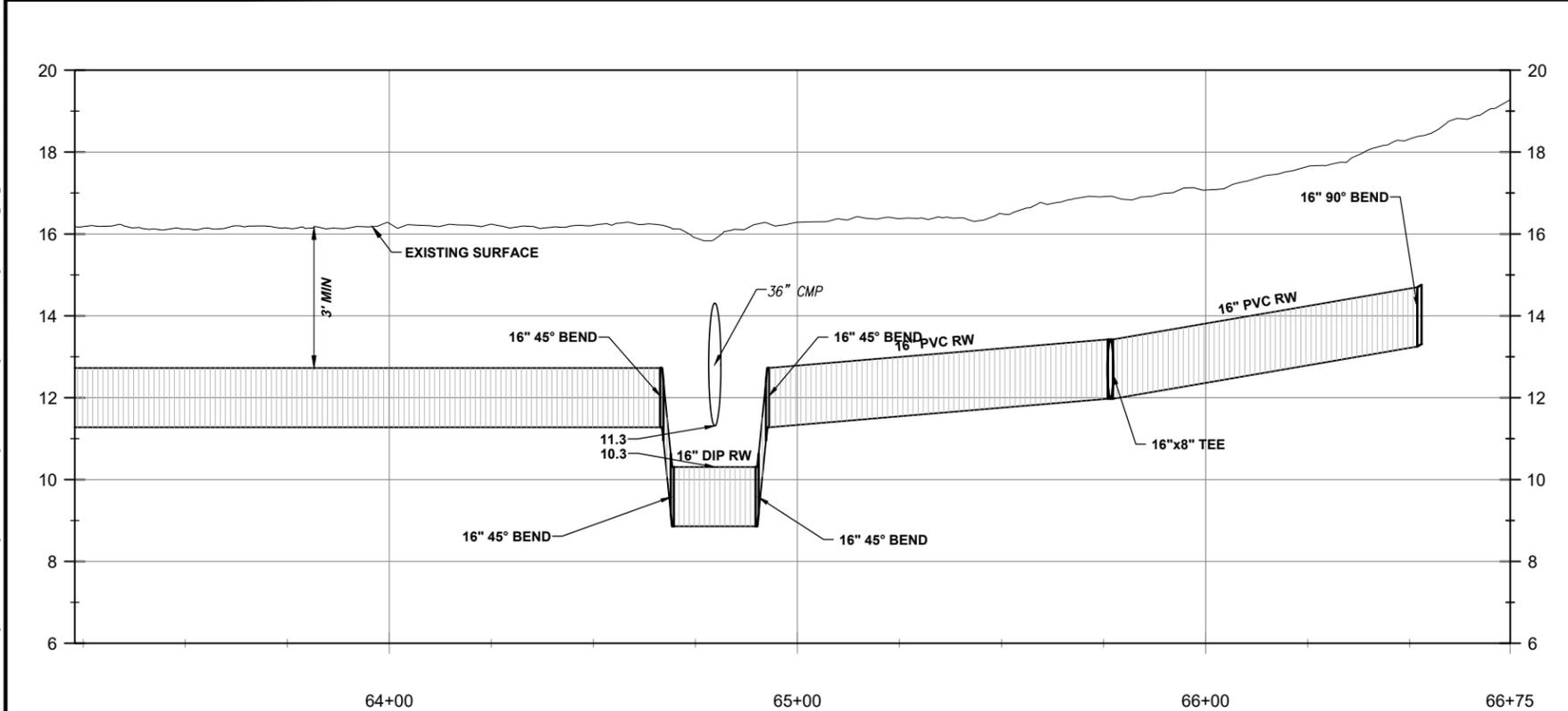
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- NOTES:
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 - EXISTING RAW WATER MAIN TO REMAIN IN SERVICE UNTIL PROPOSED RAW WATER MAIN HAS BEEN PRESSURE TESTED AND CLEARED. ONCE THE PROPOSED MAIN IS CLEARED, FOLLOW THE APPROVED SEQUENCING PLAN TO RECONNECT EACH EXISTING WELL PIPE TO THE NEW RAW WATER MAIN. ONCE THE WELLS ARE ALL RECONNECTED TO THE NEW RAW WATER MAIN, GROUT FILL AND ABANDON THE EXISTING RAW WATER MAIN.
 - SEE THE PALM BEACH COUNTY DEPARTMENT OF ENGINEERING AND PUBLIC WORKS STANDARD DETAILS ON SHEET C5-4 FOR ANY WORK IN OR UNDER ASPHALT PAVEMENT AND FOR ALL ROAD RESTORATION REQUIREMENTS.
 - EXISTING WELL NO. 21 8" FEED PIPING SHALL BE GROUT FILLED AND ABANDONED UNDER THE PAVEMENT AND REMOVED AND DISPOSED OF EVERYWHERE ELSE.
 - NOTE: THE SOURCE FOR TEMPORARY CONSTRUCTION WATER SHALL BE THE HYDRANT IMMEDIATELY EAST OF WELL 21. THE JUMPER CONNECTION TO THE PROPOSED PIPING SYSTEM CAN BE MADE AT THE 8" 90° BEND ON THE NEW WELL 21 FEED PIPE. (SEE DETAIL 2/C5-6)



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1. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE (1) COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS AND COPIES OF ALL REQUIRED CONSTRUCTION PERMITS.
2. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
3. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND THE VILLAGE PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND ITS COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE. BY SUBMITTAL OF A BID FOR THIS PROJECT, THE CONTRACTOR ACKNOWLEDGES HIS COMPLETE UNDERSTANDING AND RESPONSIBILITIES WITH RESPECT TO THE CONSTRUCTION ACTIVITIES REQUIRED UNDER THE SCOPE OF THIS PROJECT.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO; WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE STRUCTURES, LANDSCAPING, ETC.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL IMPACTED UTILITIES 48 HOURS BEFORE DIGGING. THE FOLLOWING SHALL SERVE AS A MINIMUM LIST OF UTILITIES THE CONTRACTOR IS REQUIRED TO NOTIFY:
 1. VILLAGE OF WELLINGTON
 2. FLORIDA POWER & LIGHT
 3. ATT
 4. COMCAST CABLE TV
 5. SUNSHINE STATE ONE CALL OF FLORIDA INC.
7. VILLAGE OF WELLINGTON (VOW) WRITTEN SPECIFICATIONS AND STANDARD DETAILS (LATEST EDITION) ARE TO BE CONSIDERED PART OF THIS PROJECT AND CONSTRUCTION SHALL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.
8. ALL MATERIAL MUST CONFORM TO APPROVED PRODUCT LIST AND ANY APPROVED SHOP DRAWINGS. ANY CHANGES MUST BE APPROVED BY THE ENGINEER AND VOW PRIOR TO INSTALLATION. FAILURE OF THE INSPECTOR TO CALL TO THE ATTENTION OF THE CONTRACTOR ANY ITEM NOT IN CONFORMANCE WITH PLANS AND SPECS SHALL NOT CONSTITUTE ACCEPTANCE OF THE ITEM.
9. VOW REPRESENTATIVES SHALL BE PRESENT DURING ALL OPERATIONS INVOLVING EXISTING UTILITIES.
10. NO CONCRETE THRUST BLOCKS WILL BE ALLOWED. ALL JOINTS SHALL BE MECHANICALLY RESTRAINED AS REQUIRED BY THE VOW.
11. SERVICE INTERRUPTIONS REQUIRE MINIMUM OF TWO (2) WEEKS PRIOR NOTIFICATION.

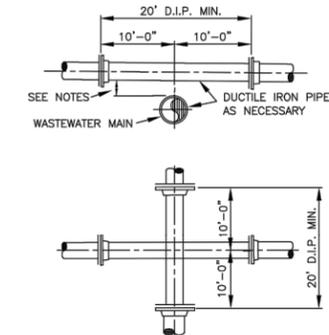
V.O.W. CONSTRUCTION STANDARDS & DETAILS

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12. ALL PIPING MUST BE INSTALLED DRY.
13. MINIMUM COVER SHALL BE 36 INCHES FROM FINISH GRADE. MINIMUM COVER UNDER DITCH SHALL BE 2' AND CANAL BOTTOMS SHALL BE 5' BELOW THE TYPICAL DESIGN SECTION. MAXIMUM COVER SHALL BE 42 INCHES FROM FINISHED GRADE.
14. DIP SHALL BE REQUIRED IN THE FOLLOWING CIRCUMSTANCES (WATER MAIN):
 - A. WITHIN 10 FEET OF SANITARY AND STORM PIPES.
 - B. WITHIN 10 FEET OF STRUCTURES, CANALS OR LAKES.
 - C. CROSSINGS OVER AND UNDER SEWERS, CANAL CROSSINGS, GAS AND STORM PIPES WITH LESS THAN 12 INCHES SEPARATION.
 - D. BENEATH ALL PAVED AREAS.
 - E. WITHIN EASEMENTS.
15. TAPPING SLEEVES & VALVES SHALL BE A MINIMUM OF 3 FEET FROM A PIPE JOINT AND SERVICE TAPS SHALL BE A MINIMUM OF 18 INCHES APART AND 18 INCHES FROM A BELL OR FITTING.
16. AN APPROPRIATELY SIZED SCHEDULE 80 PVC (OPEN CUT) OR HDPE (DIRECTIONAL DRILLED) CASING IS REQUIRED FOR ALL SERVICES THAT CROSS UNDER PAVEMENT. ENDS SHALL BE PLUGGED WITH SPRAY FOAM SEALANT OR APPROVED EQUAL AND SHALL BE LEFT EXPOSED FOR INSPECTION.
17. APPROPRIATELY MARKED 6 INCH METALLIC BACKED INDICATOR TAPE IS REQUIRED OVER ALL PVC MAINS. INDICATOR TAPE SHALL BE ONE (1) FOOT ABOVE PIPE.
18. ALL FIRE HYDRANTS SHALL MAINTAIN PROPER CLEAR ZONE PER PBC FIRE MARSHAL STANDARDS.
19. PAVEMENT REPLACEMENT, INCLUDING CURB, GUTTERS AND STRIPING SHALL OCCUR WITHIN SEVEN (7) WORKING DAYS FOLLOWING COMPLETION OF OPEN CUT WORK.
20. ALL EXPOSED (ABOVE GRADE) DUCTILE IRON WATER MAIN SHALL BE COLOR CODED TNEMEC 11SF SAFETY BLUE. FOR EXPOSED FIRE LINE DUCTILE IRON PIPING COLOR SHALL BE TNEMEC 06SF SAFETY RED.
21. ALL BACKFLOW ASSEMBLIES MUST BE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS (RPZ).
22. FIRE LINE PIPING MUST BE D.I.P. SPECIAL CLASS 52, INSTALLED FROM MAIN TO SUPPLY SIDE OF BACKFLOW ASSEMBLY. DISCHARGE SIDE OF RPZ IS GOVERNED BY PBCFR AND PBCWJUD STANDARDS.
23. USE OF REPAIR SLEEVES AND / OR REPAIR COUPLINGS IS PROHIBITED WITHOUT PRIOR APPROVAL FROM THE UTILITY DIRECTOR.
24. ALL MATERIALS FOR CONNECTION TO EXISTING MAINS, I.E. TAPPING SLEEVES, VENT TO ATMOSPHERE, ETC. MUST BE PRESENT AT SCHEDULED CONNECTION TIME. IF NOT, CONNECTION WILL BE CANCELLED.

V.O.W. CONSTRUCTION STANDARDS & DETAILS

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NOTES:

1. STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM 12" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION. D.I.P. IS NOT REQUIRED FOR STORM SEWERS.
2. WHENEVER POSSIBLE MAINTAIN MIN. TEN (10) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN POTABLE WATER MAIN AND STORM SEWER, WASTEWATER MAIN, OR FORCE MAIN (A MIN. 8' SEPARATION MAY BE APPROVED ON A CASE BY CASE BASIS). MAINTAIN MIN. THREE (3) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN RECLAIMED WATER MAIN AND POTABLE WATER MAIN, STORM SEWER, WASTEWATER GRAVITY MAIN OR FORCE MAIN.
3. FORCE MAIN CROSSING POTABLE WATER MAIN OR RECLAIMED WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN WITH THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN CROSSING OVER THE FORCE MAIN.
4. WASTEWATER LATERALS SHALL CROSS UNDER POTABLE WATER MAINS WITH A MIN. 12" VERTICAL SEPARATION WHENEVER POSSIBLE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, A 20' SECTION OF DUCTILE IRON PIPE POTABLE WATER MAIN CENTERED ON THE CROSSING IS REQUIRED AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6". WHERE THERE IS NO ALTERNATIVE TO A WASTEWATER LATERAL PIPE CROSSING OVER A POTABLE WATER MAIN, A MINIMUM 12" VERTICAL SEPARATION IS REQUIRED. THE LATERAL SHALL BE P.V.C. C-900 SDR18 OR BETTER, THE POTABLE WATER MAIN SHALL BE D.I.P. AND THE PIPE JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING.
5. POTABLE WATER SERVICE LINES SHALL CROSS OVER WASTEWATER MAINS WITH MIN. 12" VERTICAL SEPARATION. WHERE THIS MIN. SEPARATION CAN NOT BE MAINTAINED, THE WATER SERVICE SHALL BE ENCASED IN A MIN. 10' LONG CASING CENTERED OVER THE CROSSING WITH MIN. 6" VERTICAL SEPARATION.
6. WASTEWATER MAINS, WATER MAINS, STORM PIPES AND OTHER UTILITY PIPES SHALL CROSS PERPENDICULAR WHENEVER POSSIBLE.

V.O.W. CONSTRUCTION STANDARDS & DETAILS

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NO.	DATE	BY	REVISION

SEAL
SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693
DATE

FLORIDA E.B. NO. 48

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FLORIDA L.B. NO. 48

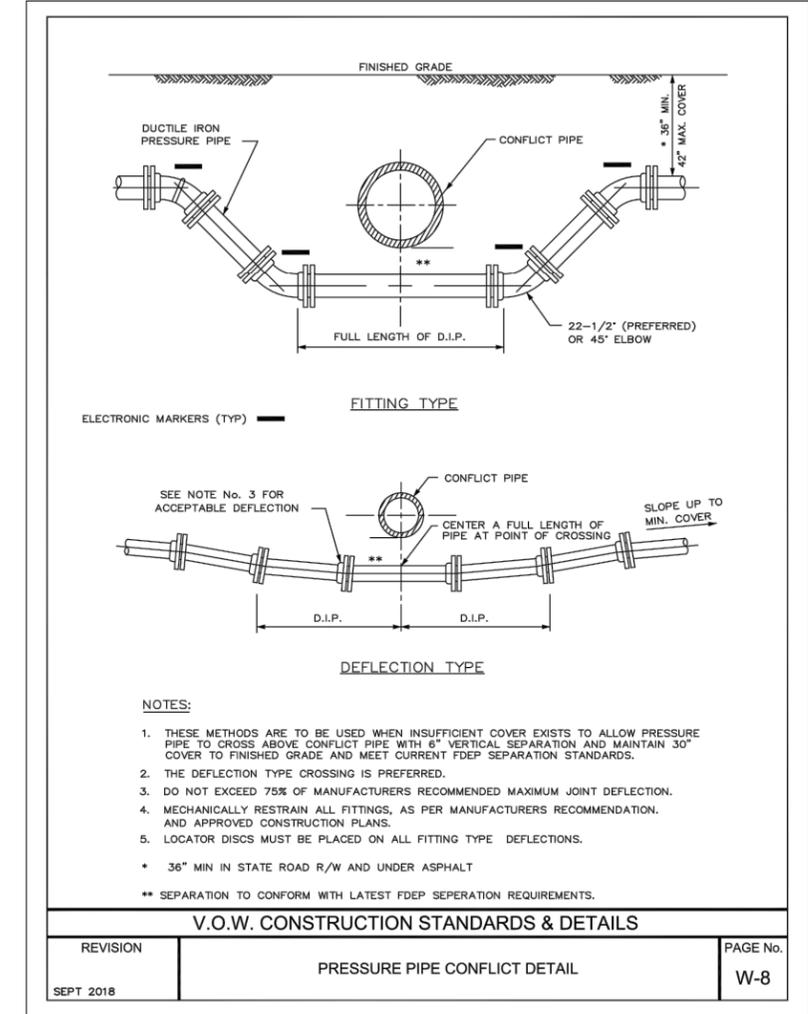
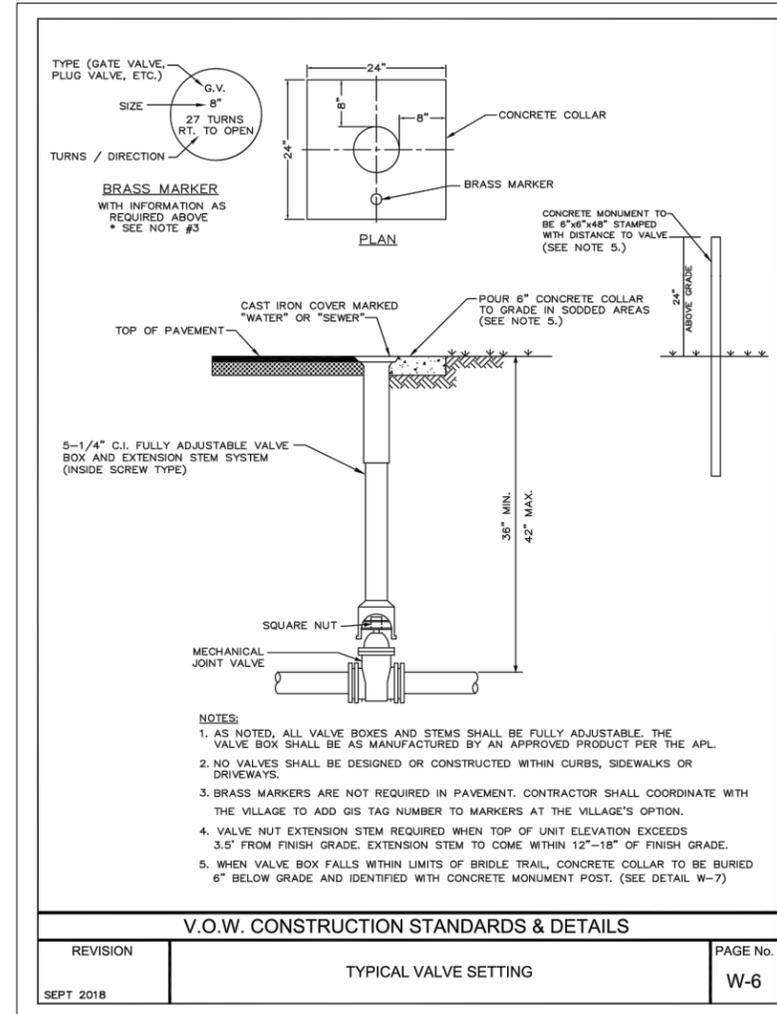
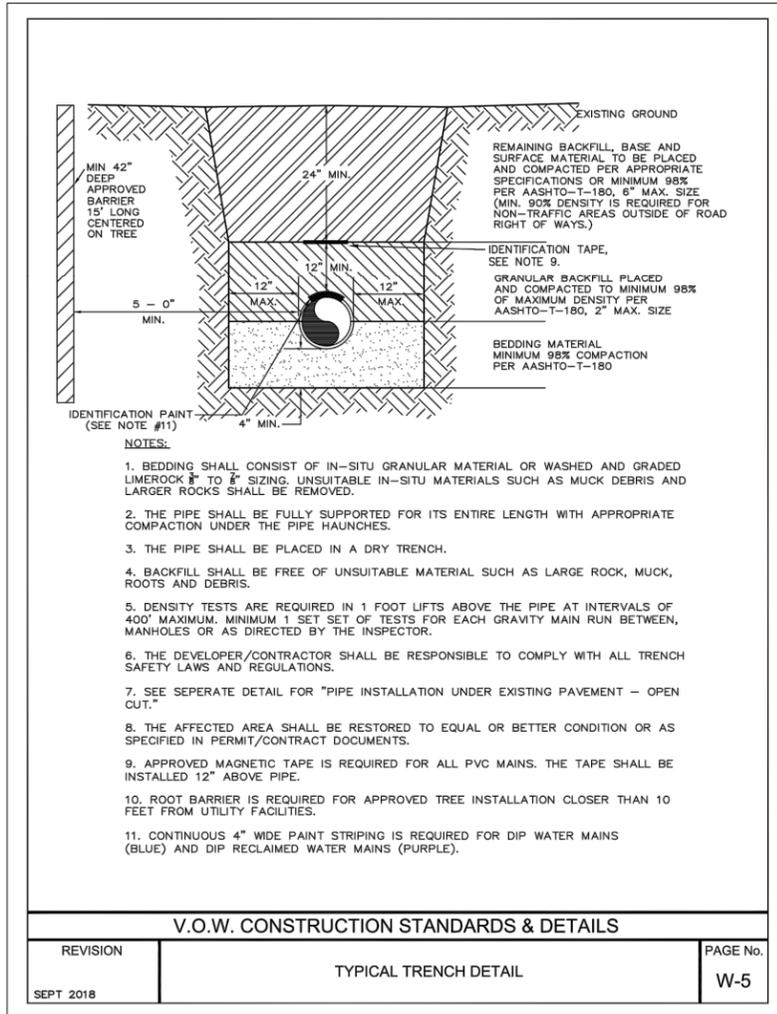
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DRAWN: SMR
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APPR: SMS
SCALE: N/A

VILLAGE OF WELLINGTON STANDARD DETAILS

50TH STREET SOUTH
RAW WATER MAIN REPLACEMENT

THE VILLAGE OF WELLINGTON
PALM BEACH COUNTY, FLORIDA

DATE:	MARCH 2020
P.A. NO.	B8704.30
DWG. NO.	44-41-25-02
SHEET:	C5-1



NOTE:
REFER TO PALM BEACH COUNTY DEPARTMENT OF ENGINEERING AND PUBLIC WORKS STANDARD DETAILS ON SHEET C5-4 FOR ALL WORK IN AND UNDER ASPHALT ROADWAYS AND FOR ALL ROAD RESTORATION.

PLOT DATE: Mar 26, 2020 - 5:27pm
 XREFS: BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
 ADJUST ALL SCALED DIMENSIONS ACCORDINGLY
 CADD FILE: F:\well\well50nm\CAD\DWG\50RWCS01_C5-1.dwg

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VILLAGE OF WELLINGTON STANDARD DETAILS

50TH STREET SOUTH
RAW WATER MAIN REPLACEMENT
THE VILLAGE OF WELLINGTON
PALM BEACH COUNTY, FLORIDA

DATE: MARCH 2020
P.A. NO. B8704.30
DWG. NO. 44-41-25-02
SHEET: C5-2

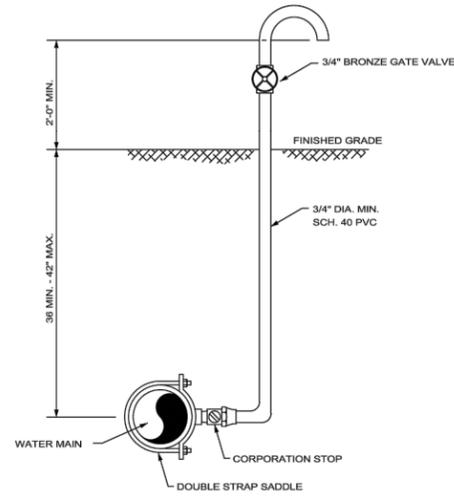
MIN. LENGTH OF PIPE (FEET) TO BE RESTRAINED
(SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1, AND
DIPRA THRUST RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.2)

FITTING TYPE	PIPE SIZE																									
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"		
90° HORIZ. BEND	14	20	25	30	35	45	54	62	98	112	124	135	14	20	25	30	35	45	54	62	98	112	124	135		
45° HORIZ. BEND	6	8	11	13	15	19	22	26	41	46	51	56	6	8	11	13	15	19	22	26	41	46	51	56		
22.5° HORIZ. BEND	3	4	5	6	7	9	11	12	19	22	25	27	3	4	5	6	7	9	11	12	19	22	25	27		
11.25° HORIZ. BEND	1	2	3	3	4	4	5	6	10	11	12	13	1	2	3	3	4	4	5	6	10	11	12	13		
90° VERT. OFFSET	UPPER BEND	29	41	53	64	74	95	115	134	214	246	276	304	29	41	53	64	74	95	115	134	214	246	276	304	
	LOWER BEND	7	10	13	16	19	25	30	35	57	66	74	83	7	10	13	16	19	25	30	35	57	66	74	83	
45° VERT. OFFSET	UPPER BEND	12	19	24	29	34	39	48	56	89	102	114	126	12	19	24	29	34	39	48	56	89	102	114	126	
	LOWER BEND	3	4	6	7	8	10	12	15	23	27	31	34	3	4	6	7	8	10	12	15	23	27	31	34	
22.5° VERT. OFFSET	UPPER BEND	6	9	12	14	17	19	23	27	43	49	55	60	6	9	12	14	17	19	23	27	43	49	55	60	
	LOWER BEND	1	2	4	4	4	5	6	7	11	13	15	16	1	2	4	4	4	5	6	7	11	13	15	16	
11.25° VERT. OFFSET	UPPER BEND	3	4	6	7	8	9	11	13	21	24	27	30	3	4	6	7	8	9	11	13	21	24	27	30	
	LOWER BEND	1	1	1	2	2	2	3	3	6	6	7	8	1	1	1	2	2	2	3	3	6	6	7	8	
PLUG (DEAD END)	32	45	59	70	83	107	129	151	214	246	276	304	32	45	59	70	83	107	129	151	214	246	276	304		
IN-LINE VALVE	32	45	45	45	45	55	65	80	110	125	140	155	32	45	45	45	45	55	65	80	110	125	140	155		
TEE (BRANCH RESTRAINT)	4"x 8"	23	-	-	-	-	-	-	-	-	-	-	-	4"x 8"	23	-	-	-	-	-	-	-	-	-	-	-
	6"x 8"	21	35	-	-	-	-	-	-	-	-	-	-	6"x 8"	21	35	-	-	-	-	-	-	-	-	-	-
	8"x 8"	18	34	47	-	-	-	-	-	-	-	-	-	8"x 8"	18	34	47	-	-	-	-	-	-	-	-	-
	10"x 8"	16	32	46	58	-	-	-	-	-	-	-	-	10"x 8"	16	32	46	58	-	-	-	-	-	-	-	-
	12"x 8"	13	30	44	57	69	-	-	-	-	-	-	-	12"x 8"	13	30	44	57	69	-	-	-	-	-	-	-
	16"x 8"	7	26	41	55	67	90	-	-	-	-	-	-	16"x 8"	7	26	41	55	67	90	-	-	-	-	-	-
	20"x 8"	1	21	38	52	65	88	109	-	-	-	-	-	20"x 8"	1	21	38	52	65	88	109	-	-	-	-	-
	24"x 8"	1	16	34	49	62	86	108	129	-	-	-	-	24"x 8"	1	16	34	49	62	86	108	129	-	-	-	-
	30"x 8"	1	8	28	44	58	83	106	127	208	-	-	-	30"x 8"	1	8	28	44	58	83	106	127	208	-	-	-
36"x 8"	1	1	22	39	54	80	103	124	206	240	-	-	36"x 8"	1	1	22	39	54	80	103	124	206	240	-	-	
42"x 8"	1	1	15	33	49	77	100	122	205	239	270	-	42"x 8"	1	1	15	33	49	77	100	122	205	239	270	-	
48"x 8"	1	1	7	27	44	73	97	120	203	238	269	298	48"x 8"	1	1	7	27	44	73	97	120	203	238	269	298	
REDUCER (LARGER PIPE RESTRAINT)	6"x 8"	23	-	-	-	-	-	-	-	-	-	-	-	6"x 8"	23	-	-	-	-	-	-	-	-	-	-	-
	8"x 8"	38	25	-	-	-	-	-	-	-	-	-	-	8"x 8"	38	25	-	-	-	-	-	-	-	-	-	-
	10"x 8"	57	43	24	-	-	-	-	-	-	-	-	-	10"x 8"	57	43	24	-	-	-	-	-	-	-	-	-
	12"x 8"	72	60	44	41	-	-	-	-	-	-	-	-	12"x 8"	72	60	44	41	-	-	-	-	-	-	-	-
	16"x 8"	99	90	78	75	45	-	-	-	-	-	-	-	16"x 8"	99	90	78	75	45	-	-	-	-	-	-	-
	20"x 8"	123	116	107	105	81	45	-	-	-	-	-	-	20"x 8"	123	116	107	105	81	45	-	-	-	-	-	-
200psi	24"x 8"	146	140	132	131	111	82	45	-	-	-	-	24"x 8"	146	140	132	131	111	82	45	-	-	-	-	-	
	30"x 8"	209	204	197	188	177	153	116	75	-	-	-	30"x 8"	209	204	197	188	177	153	116	75	-	-	-	-	
	36"x 8"	243	236	233	226	217	196	168	135	74	-	-	36"x 8"	243	236	233	226	217	196	168	135	74	-	-	-	
	42"x 8"	273	270	265	259	252	234	211	183	133	72	-	42"x 8"	273	270	265	259	252	234	211	183	133	72	-	-	
48"x 8"	301	298	294	289	283	268	249	226	183	131	71	-	48"x 8"	301	298	294	289	283	268	249	226	183	131	71	-	

- NOTES:
- THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
SOIL TYPE-SAND (DW) TEST PRESSURE-100 PSI/200 PSI DEPTH OF BURY-3' TRENCH TYPE-3 SAFETY FACTOR-1.5 VERTICAL OFFSET-3'
 - MINIMUM PIPE LENGTH ALONG TEE RUN-3'
 - THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON AND PVC PIPE.
 - ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
 - RESTRAINED PIPE LENGTHS APPLY TO PIPE ON BOTH SIDES OF VALVES AND FITTINGS.
 - MULTIPLY PIPE LENGTH BY 1.4 FOR POLYETHYLENE ENCASED PIPE.
 - RESTRAINED PIPE LENGTHS EQUAL TO AN IN-LINE VALVE CONDITION ARE REQUIRED AT EACH END OF A TRANSITION FROM HDPE PIPE TO OTHER PIPE MATERIALS.
 - DESIGN ENGINEER IS RESPONSIBLE TO PROPERLY SIZE THE RESTRAINT PIPE LENGTHS FOR THE PROJECT, INCLUDING SPECIFIC PROJECT SOIL CONDITIONS.

V.O.W. CONSTRUCTION STANDARDS & DETAILS

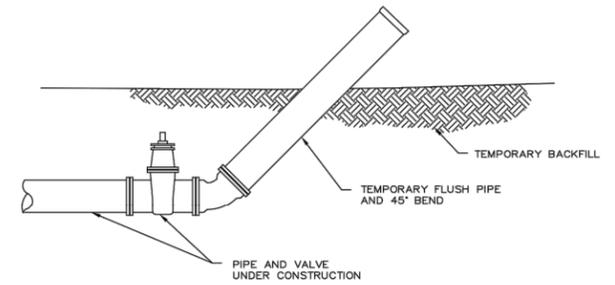
REVISION	MECHANICAL JOINT RESTRAINT REQUIREMENTS	PAGE No.
SEPT 2018		W-9



NOTE:
SAMPLE POINT SHOULD BE A SERVICE LINE OR FIRE HYDRANT IF POSSIBLE.

V.O.W. CONSTRUCTION STANDARDS & DETAILS

REVISION	SAMPLING POINT (ON MAIN)	PAGE No.
SEPT 2018		W-34



NOTES:

- UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER BY ACHIEVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE.
- INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLUCT PROPERTY DAMAGE.
- BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
- PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY THE ENGINEER AND V.O.W. INSPECTOR OF SUCH INTENDED WATER USE.
- NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED V.O.W. PERSONNEL.
- FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE V.O.W. INSPECTOR.
- AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
- ALL PIPING SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH V.O.W. STANDARDS. THE NUMBER OF PIPE LENGTHS TO BE RESTRAINED SHALL BE PER MANUFACTURERS RECOMMENDATION.

V.O.W. CONSTRUCTION STANDARDS & DETAILS

REVISION	CANNON FLUSHING DETAIL	PAGE No.
SEPT 2018		W-44

PLOT DATE: Mar 26, 2020 - 5:27pm XREFS: IMAGES:

BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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NO.	DATE	BY	REVISION
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SEAL

SPENCER M. SCHROEDER
FLORIDA P.E. NO. 65693

DATE

FLORIDA E.B. NO. 48

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FLORIDA L.B. NO. 48

FIELD: EGI
DRAWN: SMR
DESIGN: SMS
APPR: SMS
SCALE: N/A

VILLAGE OF WELLINGTON STANDARD DETAILS

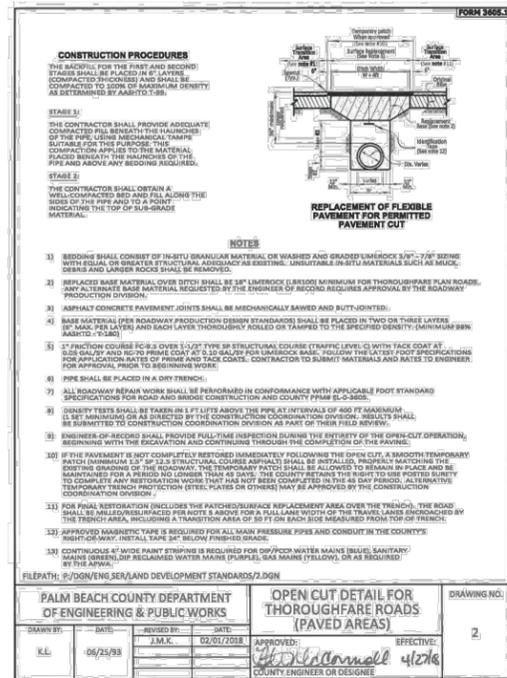
50TH STREET SOUTH
RAW WATER MAIN REPLACEMENT
THE VILLAGE OF WELLINGTON
PALM BEACH COUNTY, FLORIDA

DATE: MARCH 2020
P.A. NO. B8704.30
DWG. NO. 44-41-25-02
SHEET: C5-3

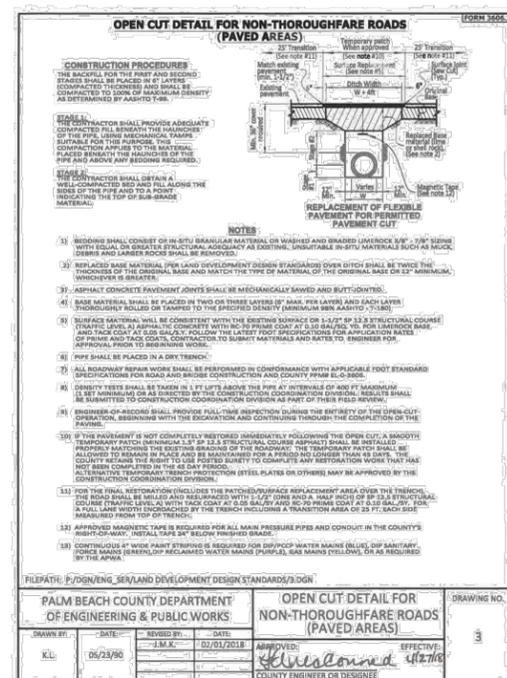


PBC ENGINEERING AND PUBLIC WORKS NOTES:

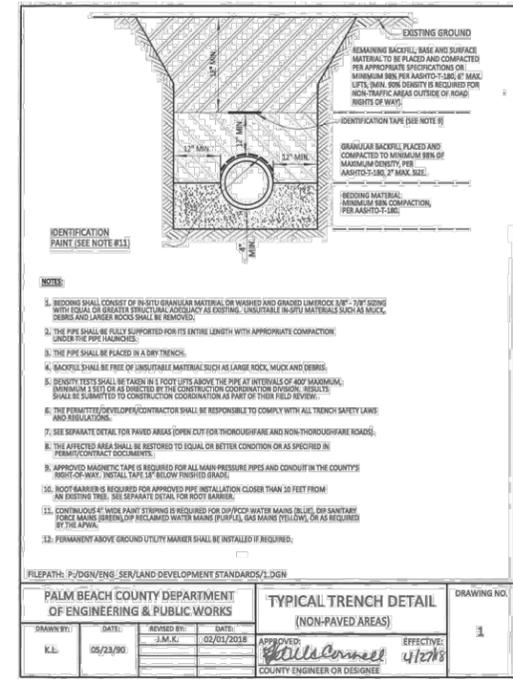
- IF PALM BEACH COUNTY WALKS, PATHS, CURB & GUTTER, AND/OR ADA FACILITIES ARE DAMAGED BY THE CONTRACTOR'S ACTIONS, A MINIMUM OF 10' IN LENGTH (SAWCUT TO SAWCUT) OF THOSE FACILITIES SHALL BE RESTORED TO LIKE OR BETTER THAN EXISTING CONDITIONS PER PALM BEACH COUNTY / FDOT STANDARDS. FOR SIDEWALKS; IF CONSTRUCTION IS LOCATED AT A SAWCUT, 2 FLAGS (MINIMUM) ARE REQUIRED TO BE REPLACED; IF CONSTRUCTION IS LOCATED IN THE MIDDLE OF A FLAG, 3 FLAGS (MINIMUM) MUST BE REPLACED (SAWCUT TO SAWCUT). NO PARTIAL JOINTS ARE ACCEPTED.
- IF PALM BEACH COUNTY STORM DRAIN PIPES OR STRUCTURES ARE DAMAGED BY THE CONTRACTOR'S ACTIONS, THE AFFECTED SYSTEM SHALL BE FULLY RESTORED TO LIKE OR BETTER CONDITION AND TO PALM BEACH COUNTY / FDOT STANDARDS.
- ALL AFFECTED ROADWAYS ARE TO BE RESTORED FROM EOP TO EOP (FOR ANY AFFECTED LANE) AND 50' IN EITHER DIRECTION FOR THOROUGHFARE ROADS OR 25' IN EITHER DIRECTION FOR NON-THOROUGHFARE ROADS. IF ANY ADDITIONAL LANES ARE AFFECTED FOR ANY REASON DURING CONSTRUCTION, PALM BEACH COUNTY ROAD AND BRIDGE WILL REQUIRE THE ADDITIONAL LANES BE RESTORED TO LIKE OR BETTER THAN EXISTING CONDITION AND TO EQUAL DIMENSIONS AS THE ADJACENT LANES.
- ANY DAMAGE TO LOOPS OR TRAFFIC EQUIPMENT MUST BE RESTORED TO ORIGINAL OR BETTER CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT 561-233-3900, 48 HOURS PRIOR TO CONSTRUCTION IF WORK IS BEING DONE WITHIN 10 FEET OF ANY SIGNAL EQUIPMENT.



1 OPEN CUT THOROUGHFARE ROADS
C5-4 NTS



2 OPEN CUT NON-THOROUGHFARE ROADS
C5-4 NTS



3 TYPICAL TRENCH DETAIL
C5-4 NTS

NOTE: SEE SHEET C5-5 FOR TYPICAL TRENCH DETAIL FOR ROOT BARRIER INSTALLATION

PLOT DATE: Mar 26, 2020 - 5:32pm XREFS: IMAGE:1

BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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			REVISION

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DATE	

FLORIDA C.A. NO. 48

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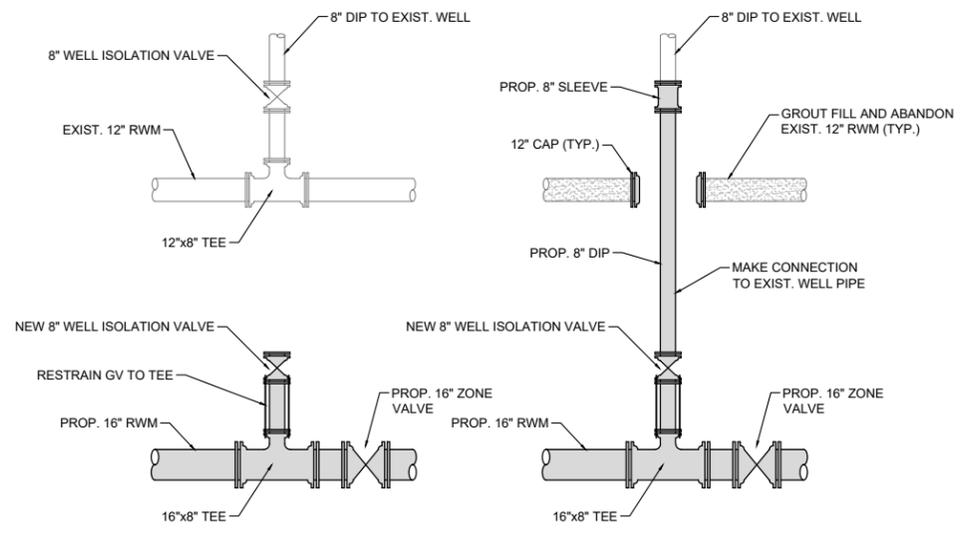
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FIELD: EGI
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SCALE: AS SHOWN

PBCLD NOTES DETAILS		DATE: MARCH 2020
50TH STREET SOUTH RAW WATER MAIN REPLACEMENT		P.A. NO. B8704.30
THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA		DWG. NO. 44-41-25-02
		SHEET: C5-4



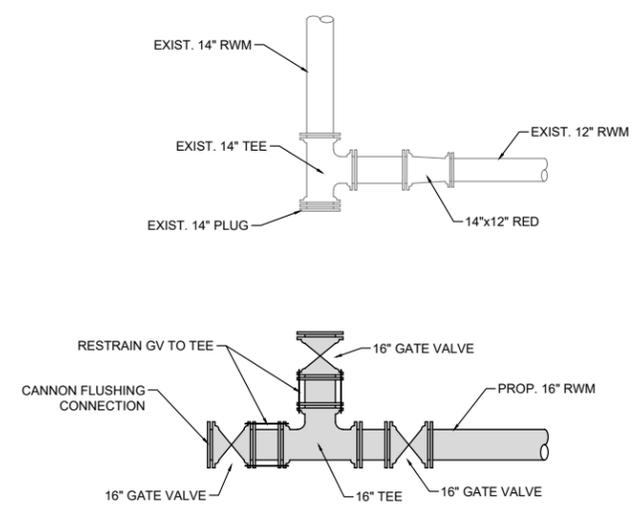
STEP 1: INSTALLATION AND PRESSURE TEST

STEP 2: RECONNECTION AND ABANDONMENT

NOTES

1. NEW RAW WATER MAIN MUST BE INSTALLED, PRESSURE TESTED AND CLEARED PRIOR TO DISCONNECTION OF ANY EXISTING WELL FACILITIES.
2. ONCE NEW RAW WATER MAIN IS CLEARED, APPROVED CONNECTION SEQUENCE SHOULD BE FOLLOWED TO RECONNECT EACH WELL.
3. AT WELL SITE, REMOVE EXISTING 12"x8" TEE AND EXISTING 8" WELL ISOLATION VALVE. MAKE NEW 8" CONNECTION FROM THE NEW WELL ISOLATION VALVE TO THE EXISTING 8" WELL PIPE.
4. ONCE ALL WELLS ARE RECONNECTED AND OPERATING ON THE NEW RAW WATER MAIN, INSTALL MJ CAPS ON THE EXISTING 12" RAW WATER MAIN AND ABANDON IN PLACE VIA GROUT FILLING.

1 WELL CONNECTION DETAILS
C5-5 N.T.S.



STEP 1: INSTALLATION AND PRESSURE TEST

STEP 2: RECONNECTION AND ABANDONMENT

NOTES

1. NEW RAW WATER MAIN MUST BE INSTALLED, PRESSURE TESTED AND CLEARED PRIOR TO DISCONNECTION OF ANY EXISTING WELL FACILITIES OR CONNECTION TO ANY SECTION OF EXISTING RAW WATER MAIN.
2. ONCE NEW RAW WATER MAIN IS CLEARED, THE APPROVED CONNECTION SEQUENCE SHOULD BE FOLLOWED TO RECONNECT EACH WELL.
3. FOR THIS CONNECTION, REMOVE EXISTING 14" TEE AND MAKE CONNECTION TO THE EXISTING RAW WATER MAIN WITH A NEW 16"x14" REDUCER AND 16" MJ SLEEVE. ALSO REMOVE THE 14"x12" REDUCER AND EXISTING 14" PIPING TO THE POINT OF CONNECTION WITH THE 12" RAW WATER MAIN TO BE ABANDONED..
4. ONCE ALL WELLS ARE RECONNECTED AND OPERATING ON THE NEW RAW WATER MAIN, INSTALL AN MJ CAP ON THE EXISTING 12" RAW WATER MAIN AND ABANDON IN PLACE VIA GROUT FILLING.

2 RAW WATER MAIN CONNECTION DETAILS - WEST END
C5-5 N.T.S.

PLOT DATE: Mar 26, 2020 - 5:27pm XREFS: IMAGES:
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 ADJUST ALL SCALED DIMENSIONS ACCORDINGLY
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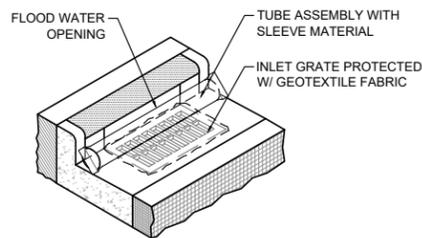
NO.	DATE	BY	REVISION

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DATE	

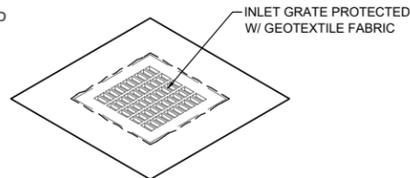
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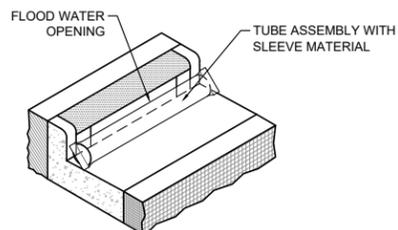
CONNECTION DETAILS		DATE: MARCH 2020
50TH STREET SOUTH RAW WATER MAIN REPLACEMENT		P.A. NO. B8704.30
THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA		DWG. NO. 44-41-25-02
		SHEET: C5-5



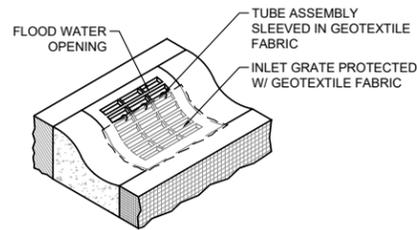
GRATE COVER & TUBE



GRATE COVER



TUBE INLET PROTECTION

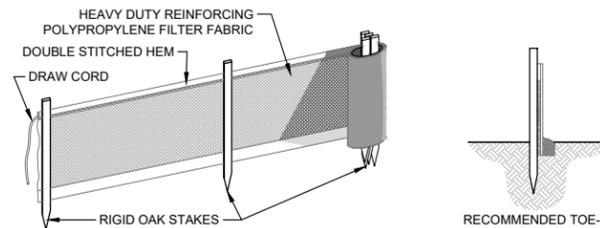


GRATE COVER

1 STORM INLET SEDIMENT PROTECTION
C5-7 N.T.S.

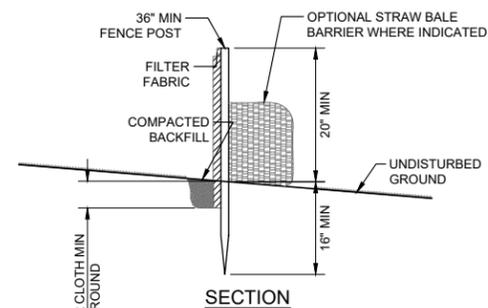
NOTES

1. SLEEVE MATERIAL AND GEOTEXTILE FABRIC SHALL BE SedCatch, OR APPROVED EQUAL.
2. INLET PROTECTION SHOULD BE INSTALLED AT THE TIME THE STRUCTURE IS SET.
3. INSPECT AFTER EACH RAIN OR AS DIRECTED BY ENGINEER OR INSPECTOR.
4. REMOVE ANY ACCUMULATED SEDIMENT AFTER EACH RAIN.
5. GRATE COVER INSTALLATION; CUT A PIECE OF GEOTEXTILE 1 FOOT LARGER THAN GRATE. PLACE GRATE UPSIDE DOWN ON GEOTEXTILE. FOLD SIDES IN TOWARD AND SECURE. REPLACE GRATE.
6. TUBE ASSEMBLY AND INSTALLATION; CUT A PIECE OF SLEEVE MATERIAL 2 FEET LONGER THAN OPENING. CUT A CORRUGATED DRAIN PIPE ONE FOOT LONGER THAN OPENING. INSERT PIPE IN SLEEVE AND CLOSE ONE END WITH HOG RINGS OR OTHER METHOD. INSERT SCHEDULE 40, CONDUIT, OR TUBING THAT WILL KEEP THE PIPE STRAIGHT. FILL WITH TWO POUNDS OF GRAVEL PER LINEAL FOOT. CLOSE END. SECURE TO GRATE OR TO STAKES IN THE GRASS TO PREVENT TUBE FROM BECOMING A TRAFFIC HAZARD.
7. AS WITH ALL INLET PROTECTION DEVICES, CHECK TO SEE HOW DEEP THE WATER COULD RISE IF THE INLET WERE TO BE BLOCKED ENTIRELY. DO NOT INSTALL IF IT COULD CAUSE PROPERTY DAMAGE OR POSE A SAFETY HAZARD TO TRAFFIC.



POSTS:

- STEEL, EITHER "T" OR "U" TYPE OR 2" HARDWOOD
- FILTER FABRIC: PER FDOT STANDARD SPECIFICATION PER FDOT INDEX 102
- PREFABRICATED UNIT: GEOFAB, ENVIRO-FENCE, OR APPROVED EQUAL

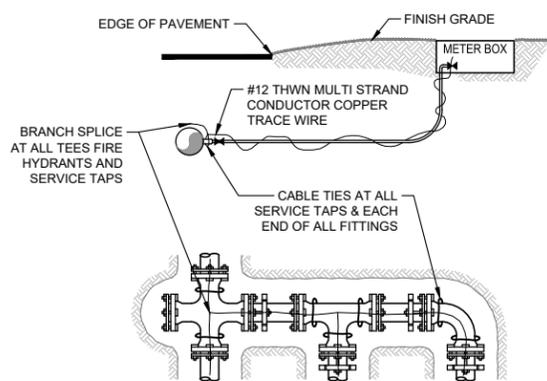


SECTION

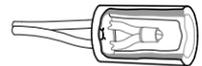
3 SILT FENCE DETAIL
C5-7 N.T.S.

NOTES

1. FILTER FABRIC FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH TIES SPACED EVERY 24 INCHES AT TOP AND MID. SECTION. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE OR DEPTH OF ACCUMULATED SEDIMENT REACHES 6 INCHES.
4. SILT FENCE SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE.
5. THE CONTRACTOR SHALL INSPECT AND REPAIR THE SILT FENCE AFTER EACH RAIN EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
6. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFFSITE AND CAN BE PERMANENTLY STABILIZED.
7. THE SILT FENCE SHALL BE PLACED ON SLOPE CONTOUR TO MAXIMIZE ITS PONDING EFFICIENCY.
8. IF DITCH LEVEL IS DEEPER THAN 30", THEN A FLOATING SILT SCREEN SHALL BE USED.



DETAIL OF A THREE WIRE SPICE

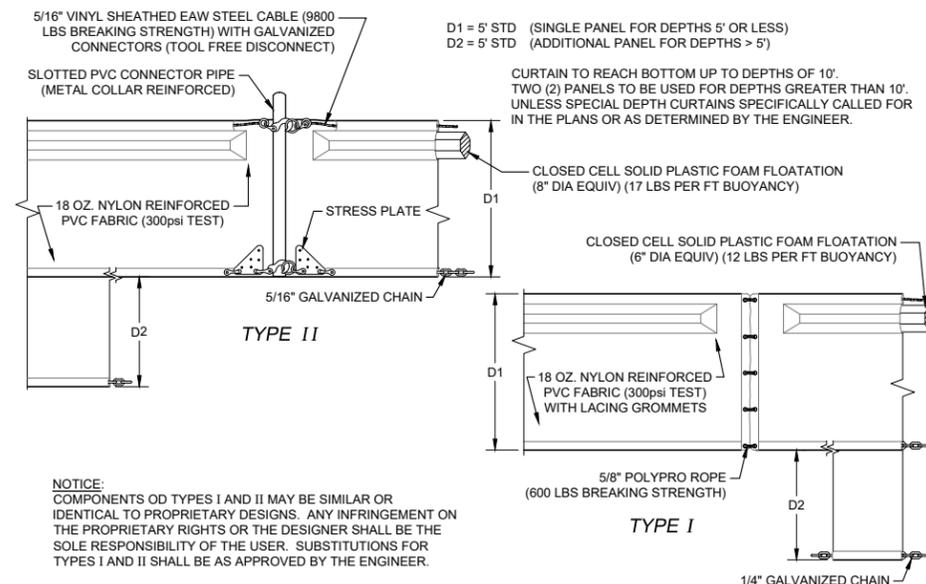


CUTAWAY DETAIL OF A TWO WIRE SPICE

NOTES

1. TRACE WIRE IS REQUIRED ON ALL NON METALLIC PIPE.
2. INCLUDE ALL COST OF MATERIAL & LABOR IN PRICE OF PIPE.
3. CONTRACTOR IS RESPONSIBLE FOR CONTINUITY OF ALL TRACE WIRE.
4. WIRE SPICE CONNECTORS SHALL BE DRY-CON DIRECT BURY LUG BY KING INNOVATIONS, DS-500 DRI-SPICE BY SPEARS OR DIRECT BURY PRODUCTS BY 3M
5. REFER TO VILLAGE OF WELLINGTON "WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS MANUAL" FOR ADDITIONAL REQUIREMENTS.

4 TRACE WIRE
C5-7 N.T.S.



NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OR THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

2 FLOATING TURBIDITY BARRIER
C5-7 N.T.S.

PLOT DATE: Mar 26, 2020 - 5:27pm XREFS: IMAGES: BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

CADD FILE: F:\well\50th\CAD\DWG\50RWCS01_C5-1.dwg		NO.	DATE	BY	REVISION	SEAL SPENCER M. SCHROEDER FLORIDA P.E. NO. 65693	FLORIDA E.B. NO. 48	MOCK • ROOS CONSULTING ENGINEERS 5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com	FLORIDA L.B. NO. 48	FIELD: EGI DRAWN: SMR DESIGN: SMS APPR: SMS SCALE: N/A	50TH STREET SOUTH RAW WATER MAIN REPLACEMENT THE VILLAGE OF WELLINGTON PALM BEACH COUNTY, FLORIDA	DATE: MARCH 2020 P.A. NO. B8704.30 DWG. NO. 44-41-25-02 SHEET: C5-7
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DETAILS