



63RD ST. E. WATERMAIN 61ST ST. E. TO S.R. 70 E. 404-6077970

SEPTEMBER 2016

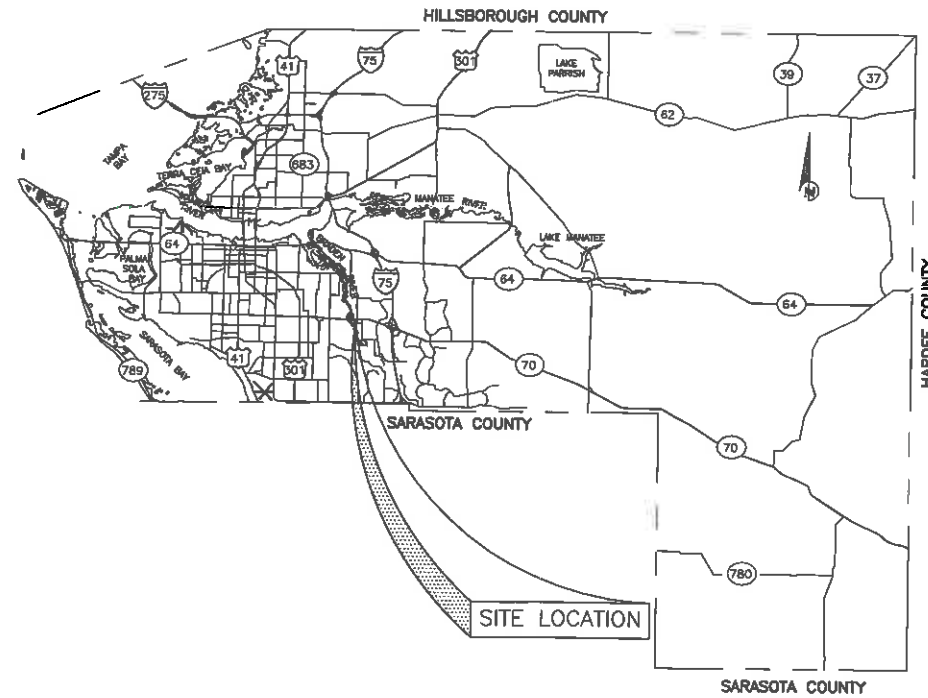


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

**63RD ST. E. WATERMAIN
61ST ST. E. TO S.R. 70 E.
COVER SHEET**



VICINITY MAP
N.T.S.



SITE LOCATION

NO.	INDEX OF SHEETS
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3-8	PLAN & PROFILE
9-10	DETAILS
11	EROSION CONTROL

PROJECT DESCRIPTION

INSTALL APPROXIMATELY 2,000 LF 12" PVC WATER MAIN FROM S.R. 70 TO 61ST ST. EAST AND APPROXIMATELY 650 LF PVC WM ALONG CARUSO ROAD TO COMPLETE LOOP SYSTEM.

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	404-6077970
SURVEY #	5118116
SEC./TWN./RCE	15/35e/18e
SCALE	N/A
SURVEYED	BY: HYATT DATE: 01/02/16
DESIGNED	AB/JEA DATE: 07/20/16
DRAWN	JEA DATE: 07/20/16
CHECKED	A3 DATE: 07/21/16
ANTHONY BENITEZ P.E.	
FLORIDA P.E. # 69130	
9/22/16	
<i>[Signature]</i>	
Signature & Date	

C:\PROG\2016\MANATEE COUNTY GOVERNMENT\IS\PROJ\Engineering\Shore Util. Eng. Design\PROJ\1-MTR LINE Proj\Water Line-63rd St. E. Caruso Water Loop\Map Construction Drawings\Cover.dwg, I. Coner, 9/22/2016 8:56:56 AM Jim Anderson, 12, Ledger

GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: ANTHONY BENITEZ P.E. AND CAN BE REACHED AT (941) 708-7450 EXT. 7333

SAFETY

- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.

ENVIRONMENTAL

- 14. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.

RIGHT-OF-WAY

- 25. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.

UTILITIES

- 32. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT.

- 33. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA.

- 34. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION.

- 35. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

- 36. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS.

- 37. FOR DEFINITIONS OF EXISTING UTILITY LETTER DESIGNATIONS REFER TO THE FDOT UTILITY ACCOMMODATIONS MANUAL LATEST EDITION.

RESTORATION

- 38. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.

- 39. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.

- 40. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.

- 41. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.

- 42. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS.

- 43. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.

- 44. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

- 45. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT Baffles POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.

- 46. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEP DAILY AS PART OF DAILY CLEAN UP.

- 47. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.

- 48. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.

- 49. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.

- 50. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.

- 51. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.

- 52. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.

- 53. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.

- 54. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.

- 55. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.

- 56. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.

- 57. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.

- 58. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.

- 59. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.

- 60. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.

CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.

- 66. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.

- 67. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 14 WILL BE PROVIDED UPON REQUEST.

SURVEY

- 68. THE FOLLOWING NGS VERTICAL CONTROL MONUMENTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN: "SUGARMILL WOODS" NAVD 1988 ELEVATION 14.01' "D 564" NAVD 1988 ELEVATION 7.57'

- 69. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT).

SITE CONTROL

Table with columns: DESIGNATION, NORTHING, EASTING, ELEVATION, DESCRIPTION. Rows include #104, #105, #106, #107, #110, #111.

EMERGENCY CONTACTS

- MANATEE COUNTY PUBLIC WORKS DEPT. 1022 26TH AVENUE EAST BRADENTON, FL 34208 SCOTT MAY, P.E. (941) 708-7450 EXT. 7650 FAX: (941) 708-7415

LEGEND

Legend table with columns: EXISTING, PROPOSED, ABBREVIATIONS. Includes symbols for bench mark, concrete monument, iron pipe, etc.



63RD ST. E. WATERMAIN 61ST ST. E. TO S.R. 70 E. NOTES & LEGEND

Revision table with columns: NO., REVISION DESCRIPTION, DATE. Includes project info: PROJECT # 404-6077970, SURVEY # 5118116, SEC./TWN./RGE 15/35e/18e, SCALE N/A.

ANTHONY BENITEZ P.E. FLORIDA, P.E. # 69130 9/22/16 Signature & Date SHEET 2 OF 4

Copyright 2015 MANATEE COUNTY GOVERNMENT T&P/PRD Engineering - Street/Util Eng Design/PROJ - WATER LINE - 63rd St. E. - Citrus Water Loss/Water Construction Drawing/Owner/2 Notes & Legends 9/9/2016 6:51 AM Jim Anderson, 12, Ledger



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1023 36th Avenue East, Bradenton, FL 34208



Manatee
County
FLORIDA

63RD ST. E. WATERMAIN
61ST ST. E. TO S.R. 70 E.
COVER SHEET

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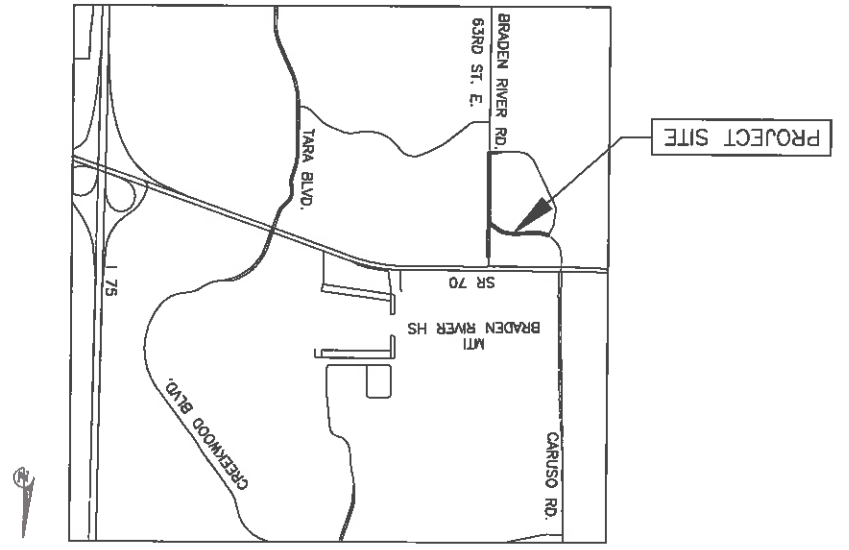
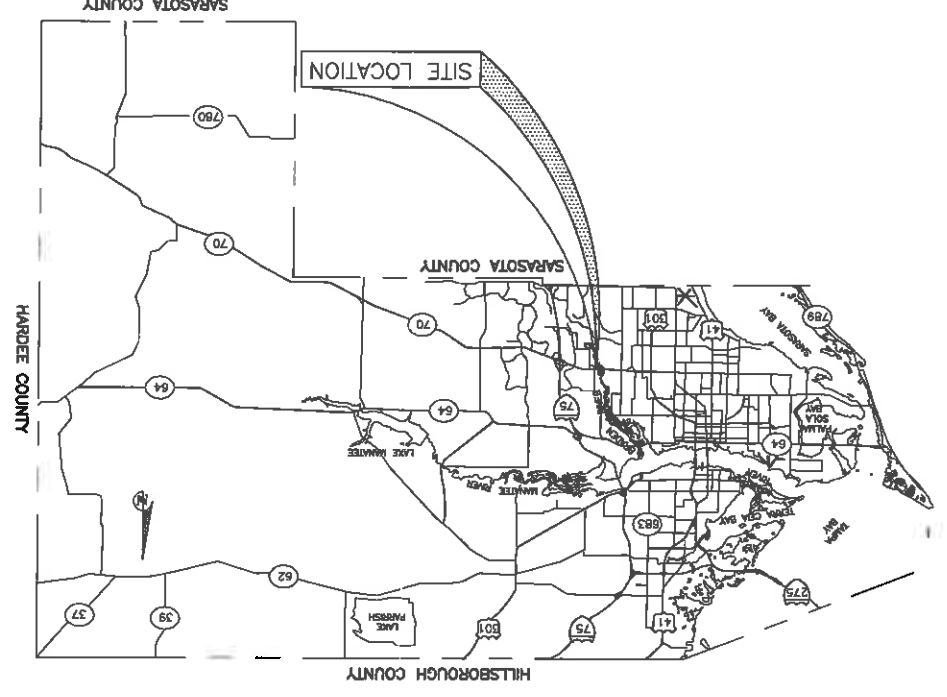
NO.	INDEX OF SHEETS

PROJECT #	404-6077970
SURVEY #	5118116
SEC./TWN./RGE	15/35a/18a
SCALE	N/A
DATE	
BY	
SUR/E/C/D	H/M/T
01/02/16	
DESIGNED	AB/JEA
07/20/16	
CHECKED	JEA
07/20/16	
CHECKED	AB
07/21/16	
ANTHONY BENNETZ P.E.	
FLORIDA P.E. # 69130	
9/22/16	
Signature & Date	
SHEET 1 OF 11	

NO.	INDEX OF SHEETS
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63RD ST. E. WATERMAIN 61ST ST. E. TO S.R. 70 E. 404-6077970

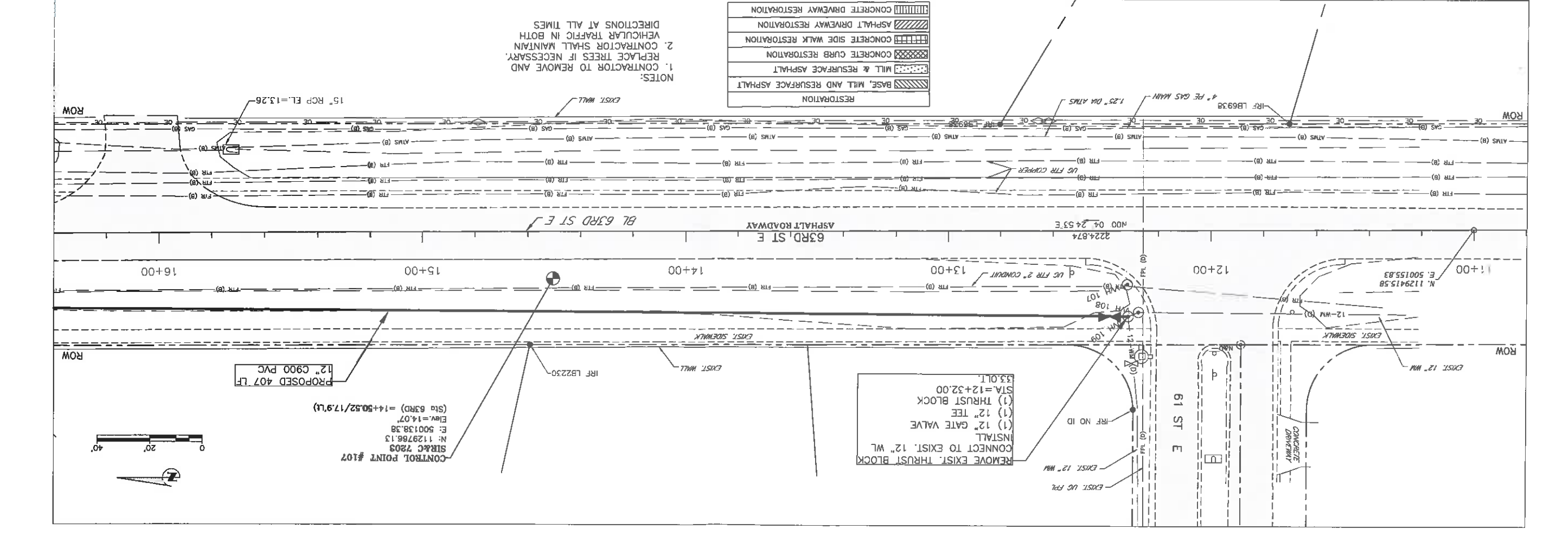
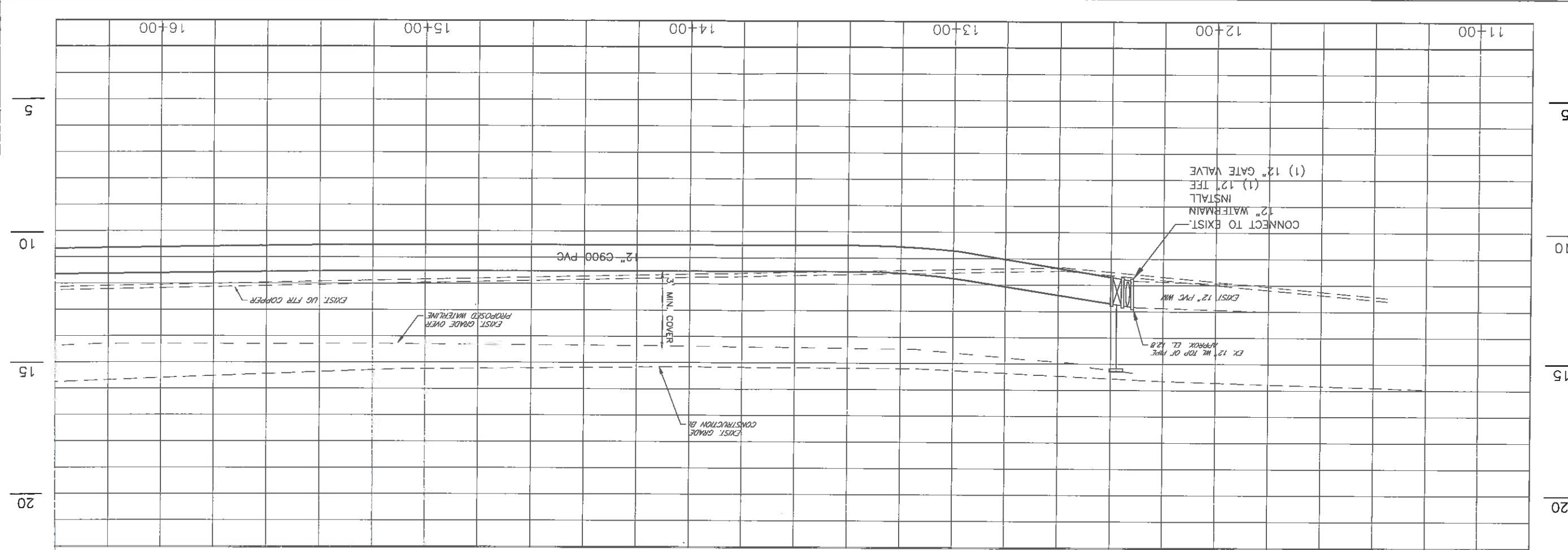
SEPTEMBER 2016



VICINITY MAP
N.T.S.

PROJECT DESCRIPTION

INSTALL APPROXIMATELY 2,000 LF 12" PVC WATER MAIN FROM S.R. 70 TO 61ST ST. EAST AND APPROXIMATELY 650 LF PVC WM ALONG CARUSO ROAD TO COMPLETE LOOP SYSTEM.

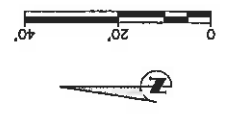


	BASE, MILL AND RESURFACE ASPHALT
	MILL & RESURFACE ASPHALT
	CONCRETE CURB RESTORATION
	CONCRETE SIDE WALK RESTORATION
	ASPHALT DRIVEWAY RESTORATION
	CONCRETE DRIVEWAY RESTORATION

NOTES:
 1. CONTRACTOR TO REMOVE AND REPLACE TREES IF NECESSARY.
 2. CONTRACTOR SHALL MAINTAIN VEHICULAR TRAFFIC IN BOTH DIRECTIONS AT ALL TIMES.

REMOVE EXIST. THRUST BLOCK
 CONNECT TO EXIST. 12" WL
 INSTALL
 (1) 12" GATE VALVE
 (1) 12" TEE
 (1) THRUST BLOCK
 STA=12+32.00
 33.0 FT.

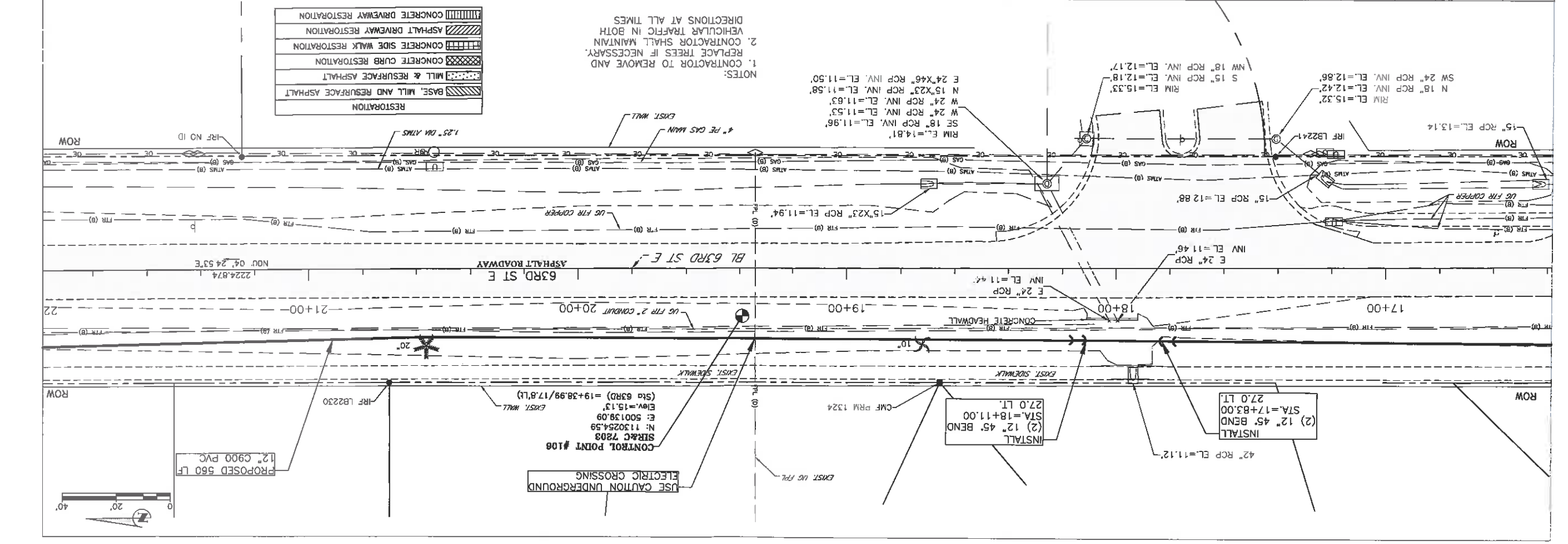
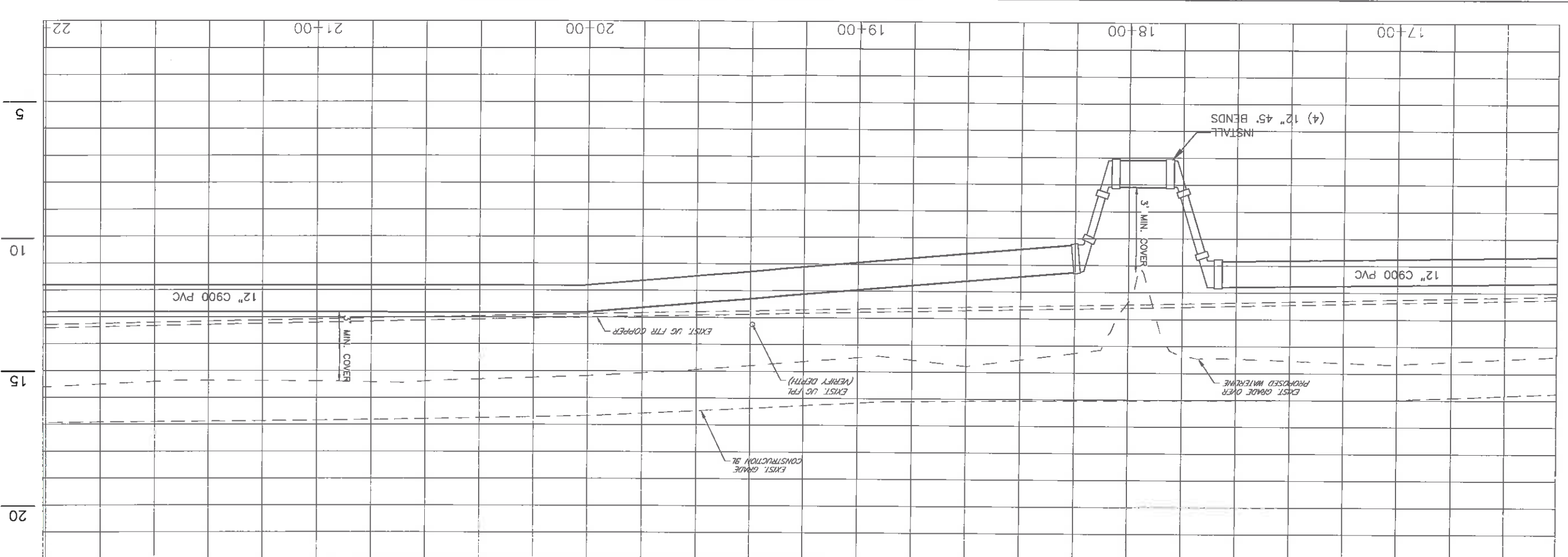
CONTROL POINT #107
 SIR&C 7203
 N: 1129766.13
 E: 500138.38
 Elev.=14.07
 (Sta 63RD)=14+50.52/17.9(L)
 PROPOSED 407 LF
 12" C900 PVC



PROJECT #	404-6077970
SURVEY #	5118116
SEC./TWN./RGE	15/35S/18E
VERT. SCALE	1"=4' 11X17
HORZ. SCALE	1"=40' 11X17
BY	DATE
SURVEYED	07/12/16
DESIGNED	07/20/16
DRAWN	07/26/16
CHECKED	07/21/16
MATHONY BENITEZ P.E.	
T. OPIDA P.E. # 60130	
Signature & Date	

63RD ST. E. WATER MAIN
61ST ST. E. TO S.R. 70 E.
PLAN & PROFILE STA. 10+80 TO 16+20

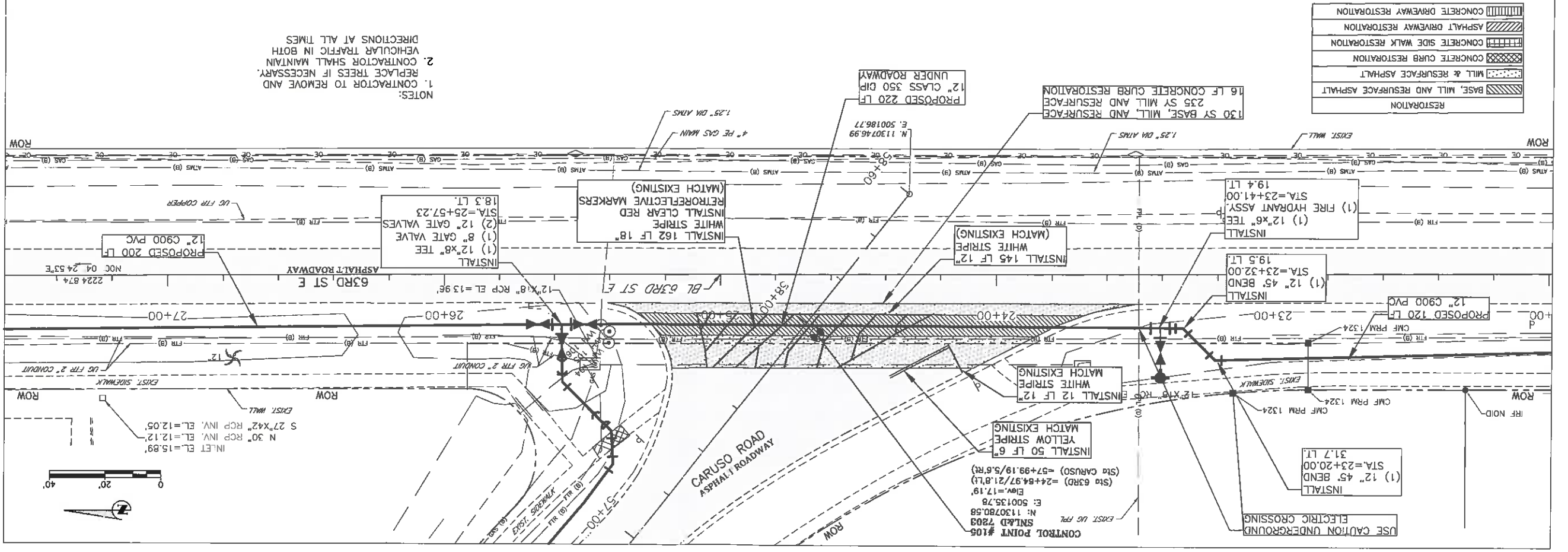
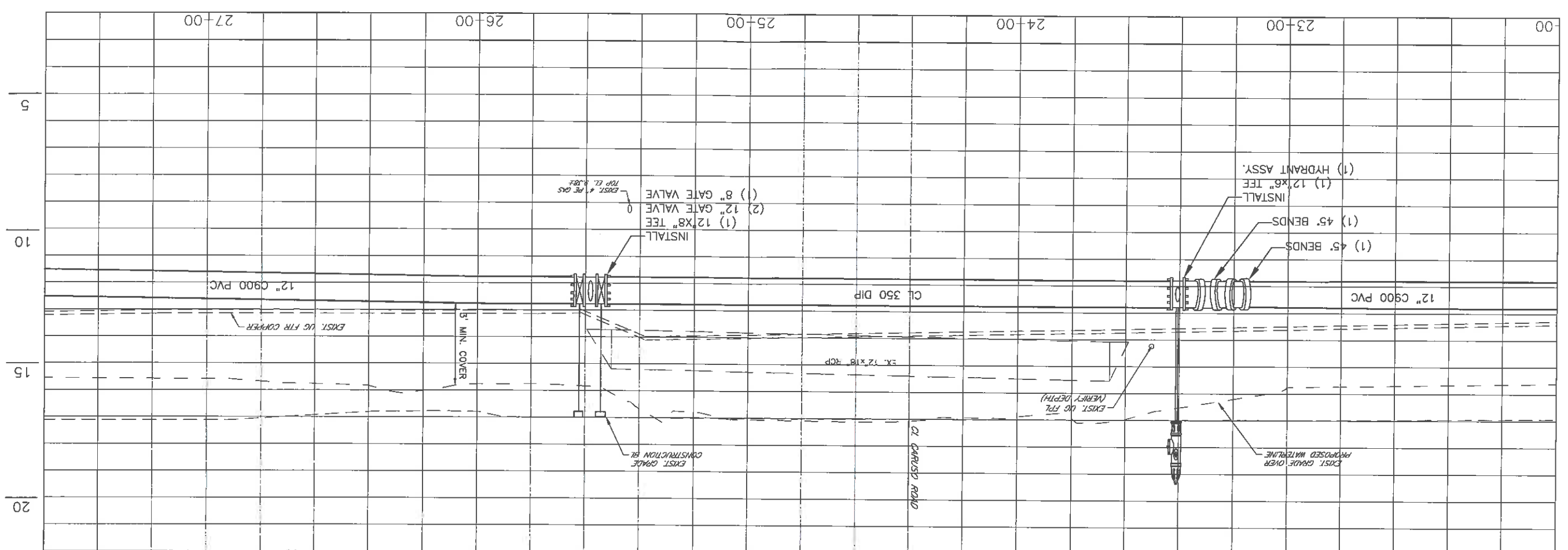
PUBLIC WORKS DEPARTMENT
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 1823 20th Avenue East, Bradenton, FL 34208



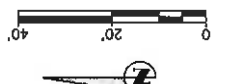
PROJECT #	404-6077970
SURVEY #	5118116
SEC./TWN./RGE	15/35S/18E
HORIZ. SCALE	1"=40' 11X17
VERT. SCALE	1"=4' 11X17
BY	DATE
SURVEYED	07/12/16
DESIGNED	07/20/16
TRAINED	07/27/16
CHECKED	07/27/16
ANTHONY BENITEZ P.E.	69130
FLORIDA P.E. #	69130
SIGNATURE & DATE	9/22/16
SHEET 4 OF 14	

63RD ST. E. WATER MAIN
61ST ST. E. TO S.R. 70 E.
PLAN & PROFILE STA. 16+40 TO 22+00

1022 20th Avenue East, Bradenton, FL 34208
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 Manatee County, Florida



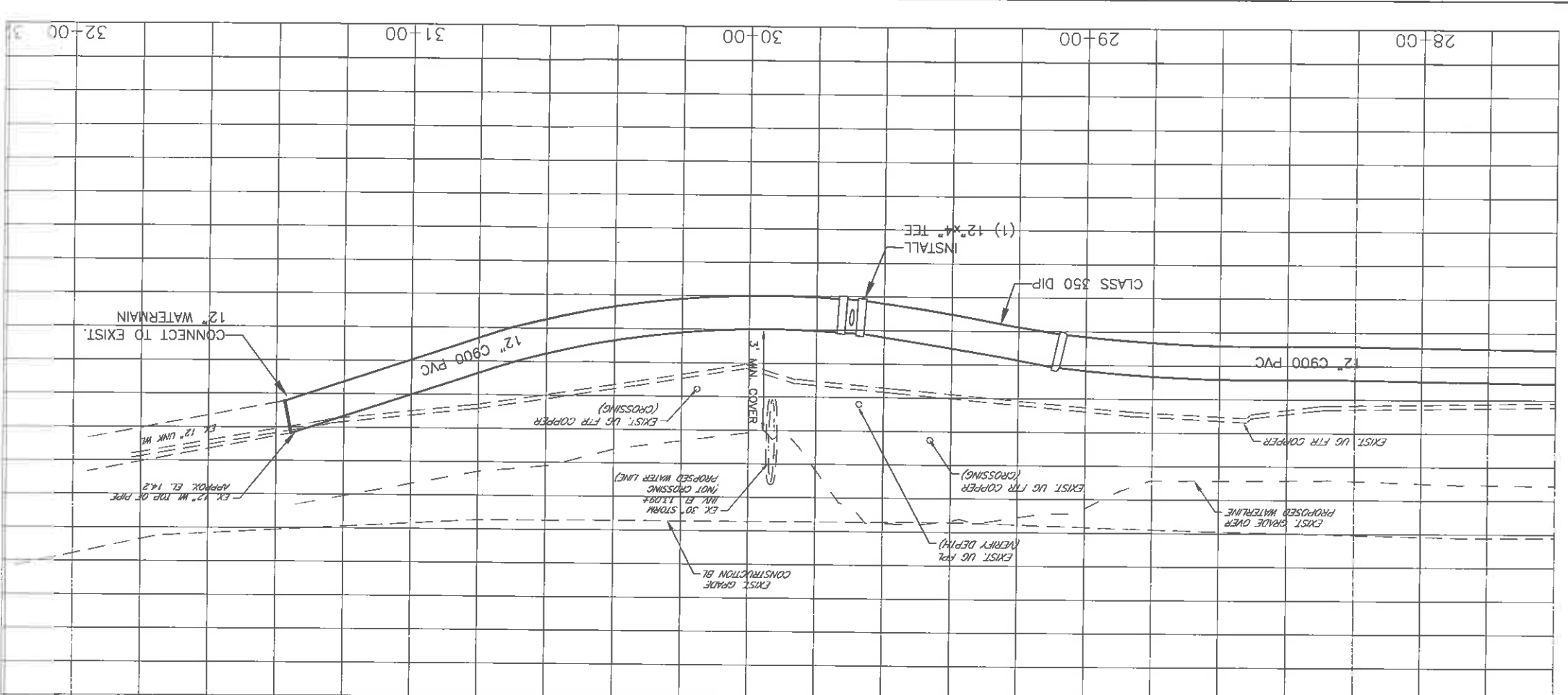
NOTES:
 1. CONTRACTOR TO REMOVE AND REPLACE TREES IF NECESSARY.
 2. CONTRACTOR SHALL MAINTAIN VEHICULAR TRAFFIC IN BOTH DIRECTIONS AT ALL TIMES.



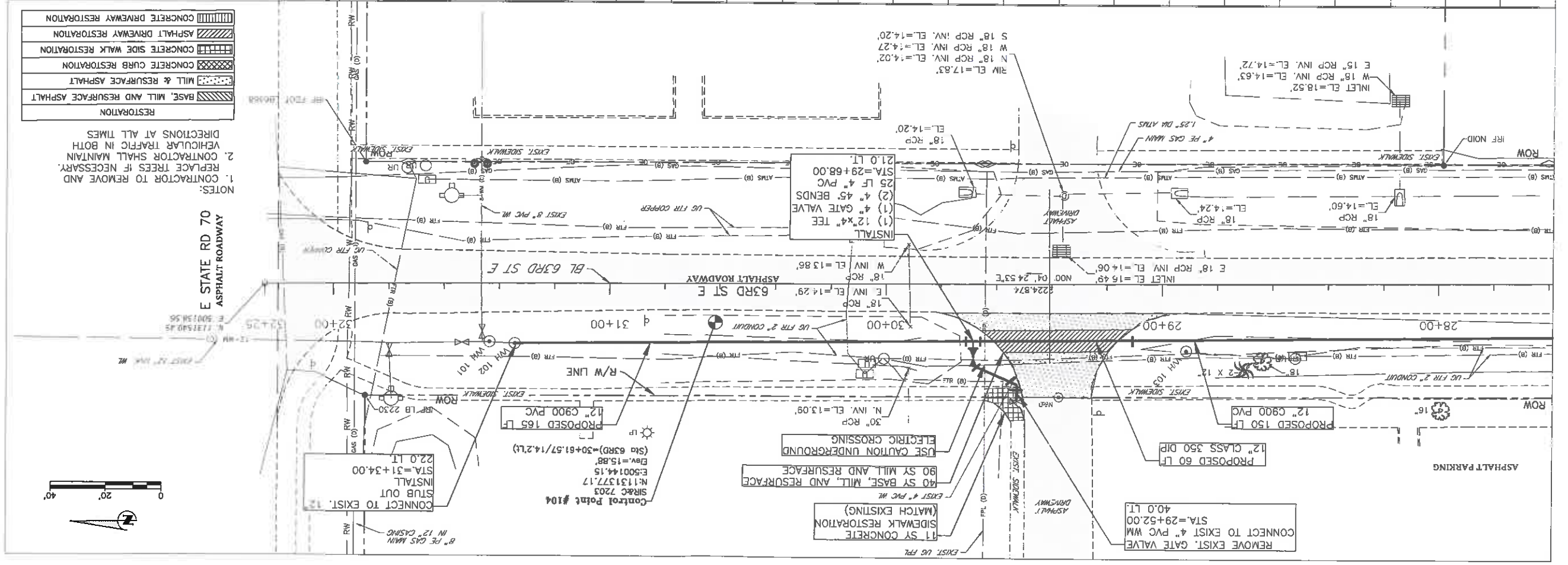
63RD ST. E. WATER MAIN
61ST ST. E. TO S.R. 70 E.
PLAN & PROFILE STA. 22+00 TO 27+60



PROJECT #	404-6077970	
SURVEY #	5118116	
SEC./TWN./RGE	15/25S/18E	
VERT. SCALE	1"=4' 11X17	
HORIZ. SCALE	1"=40' 11X17	
BY	DATE	
SURVEYED	HWT	07/12/16
DESIGNED	AB/JEA	07/20/16
DRWN	JFA	07/20/16
CHECKED	AB	07/21/16
ANTHONY BENNETT P.E.		
FLORIDA P.E. # 89130		
9/22/16		
Signature & Date		
SHEET 5 OF 11		

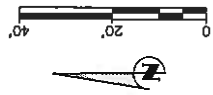


5
10
15
20



	RESTORATION
	BASE, MILL AND RESURFACE ASPHALT
	MILL & RESURFACE ASPHALT
	CONCRETE CURB RESTORATION
	CONCRETE SIDE WALK RESTORATION
	ASPHALT DRIVEWAY RESTORATION
	CONCRETE DRIVEWAY RESTORATION

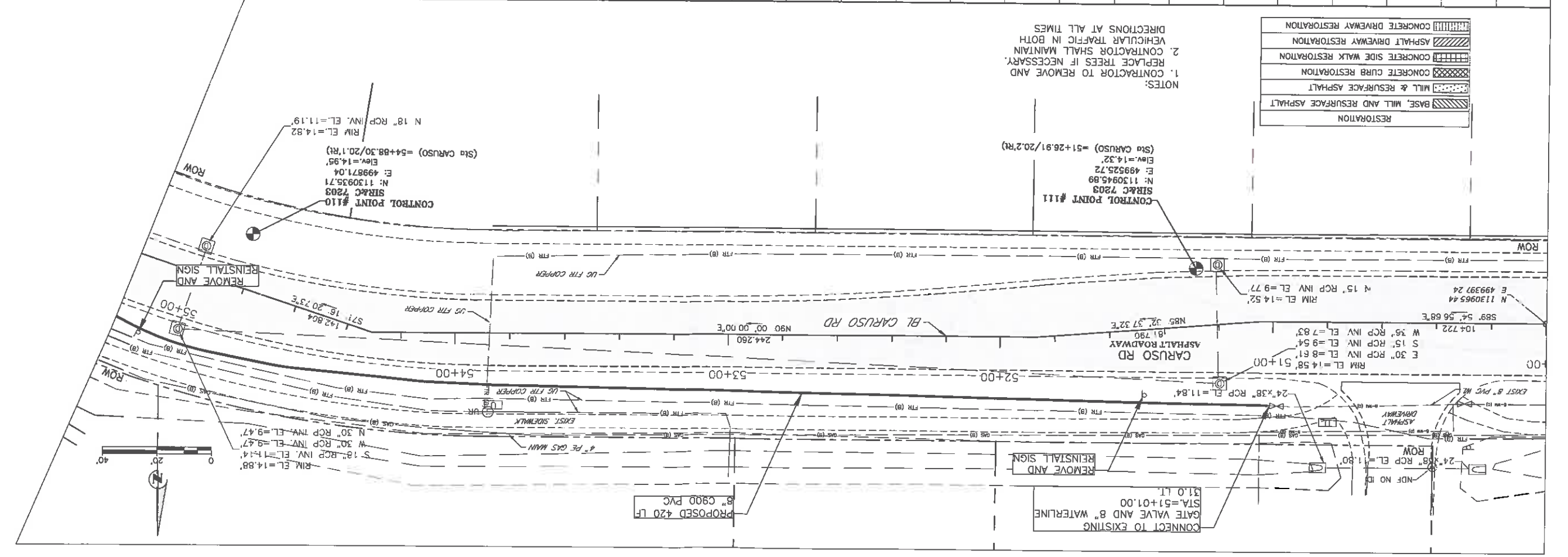
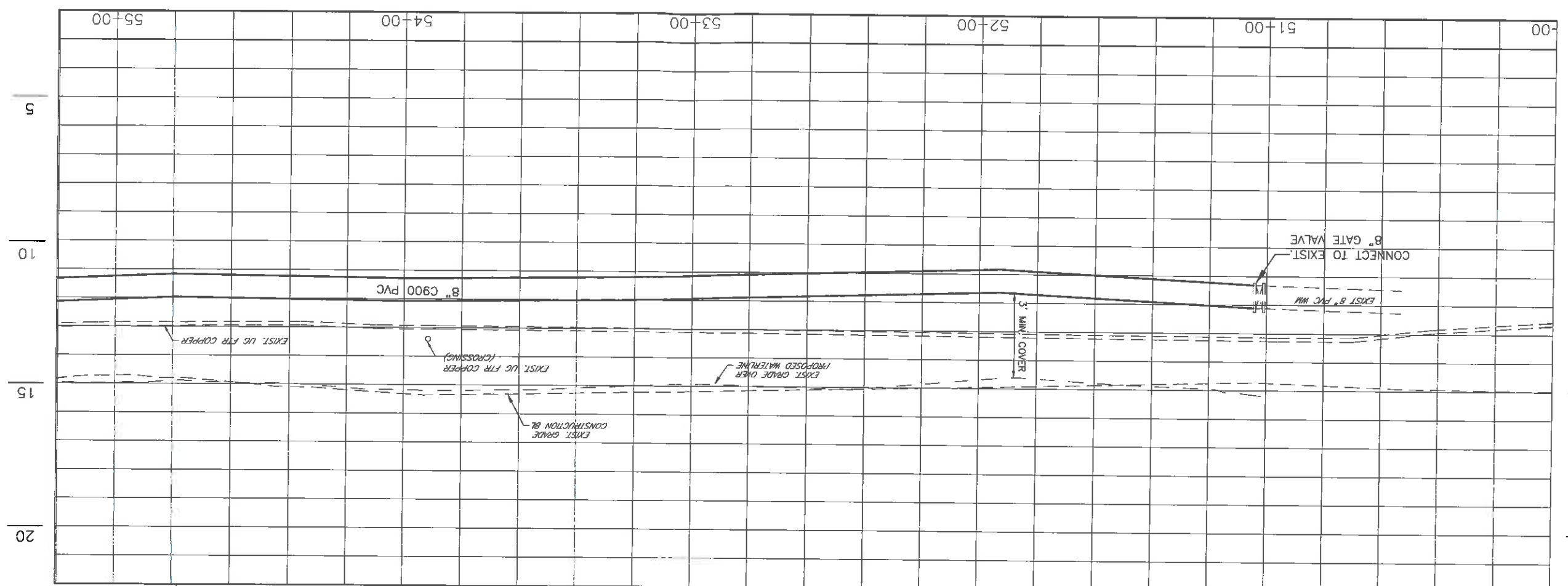
- NOTES:
 1. CONTRACTOR TO REMOVE AND REPLACE TREES IF NECESSARY.
 2. CONTRACTOR SHALL MAINTAIN VEHICULAR TRAFFIC IN BOTH DIRECTIONS AT ALL TIMES.



PROJECT #	404-607/970
SURVEY #	5118116
SEC./TWN./RGE	15/358/18a
VERT. SCALE	1"=4' 11X17
HORIZ. SCALE	1"=40' 11X17
BY	
DATE	
SURVEYED	HAT 07/12/16
DESIGNED	AB/JEA 07/20/16
ORAWN	JFA 07/20/16
CHECKED	AB 07/21/16
AMTHONY BENITEZ P.E.	
FLORIDA P.E. # 52130	
Signature & Date	

63RD ST. E. WATER MAIN
61ST ST. E. TO S.R. 70 E.
PLAN & PROFILE STA. 27+60 TO 32+25

1023 76th Avenue East, Bradenton, FL 34209
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES



RESTORATION	
	BASE, MILL AND RESURFACE ASPHALT
	MILL & RESURFACE ASPHALT
	CONCRETE CURB RESTORATION
	CONCRETE SIDE WALK RESTORATION
	ASPHALT DRIVEWAY RESTORATION
	CONCRETE DRIVEWAY RESTORATION

NOTES:
 1. CONTRACTOR TO REMOVE AND RESTORE ASPHALT DRIVEWAY RESTORATION
 2. CONTRACTOR SHALL MAINTAIN VEHICULAR TRAFFIC IN BOTH DIRECTIONS AT ALL TIMES

SHEET 7 OF 11

9/22/16

FLORIDA P.E. # 69130

ANTHONY BENITEZ P.E.

DATE	BY	DESCRIPTION
07/12/16	HVAT	SURVEYED
07/20/16	AB/JCA	DESIGNED
07/20/16	JEA	DRAWN
07/21/16	AD	CHECKED

PROJECT #	SURVEY #	SEC./TWN./RGE	VERT. SCALE	HORZ. SCALE
404-607970	5118116	15/35S/18E	1"=4' 11X17	1"=40' 11X17

63RD ST. E. WATER MAIN
61ST ST. E. TO S.R. 70 E.
PLAN & PROFILE STA.50+00 TO 55+20

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

NOTE:
 REFERENCE THE FDOT DESIGN STANDARDS
 LATEST EDITION FOR ALL TEMPORARY
 EROSION CONTROL MEASURES.

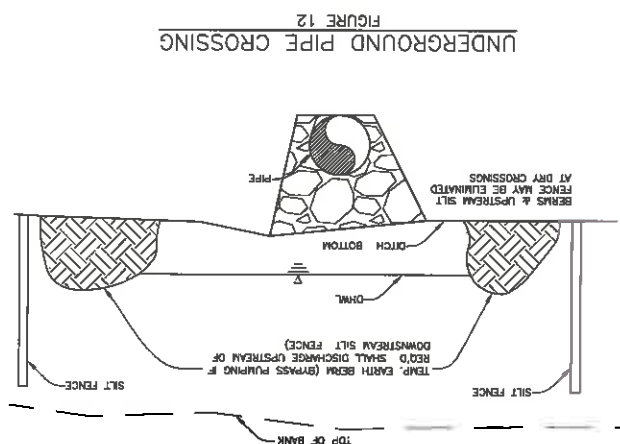
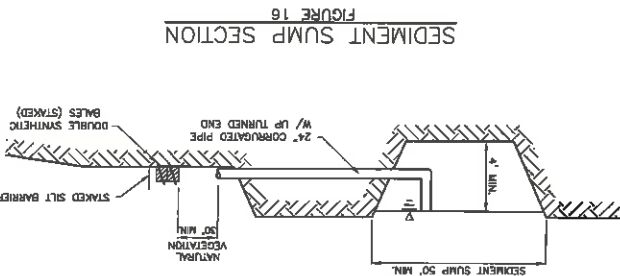
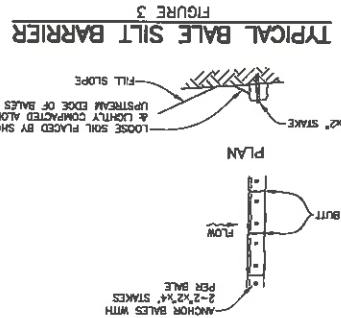
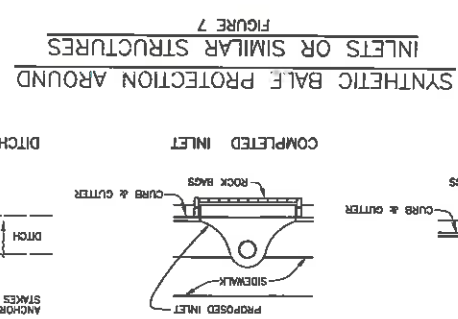
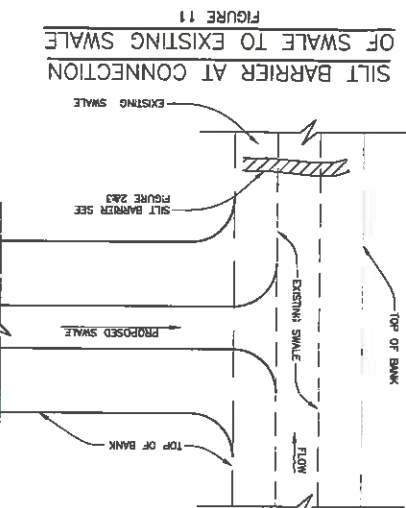
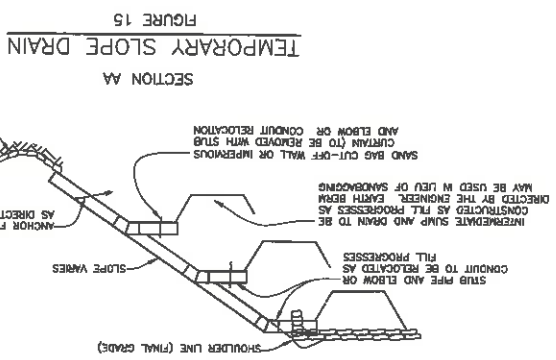
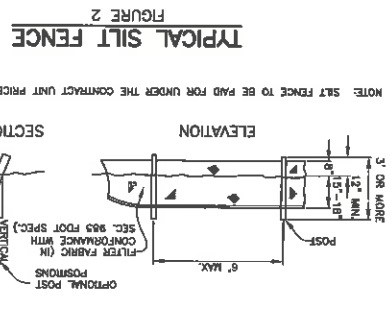
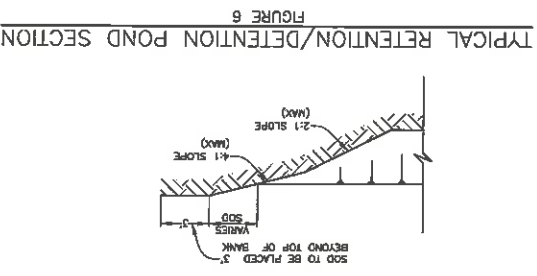
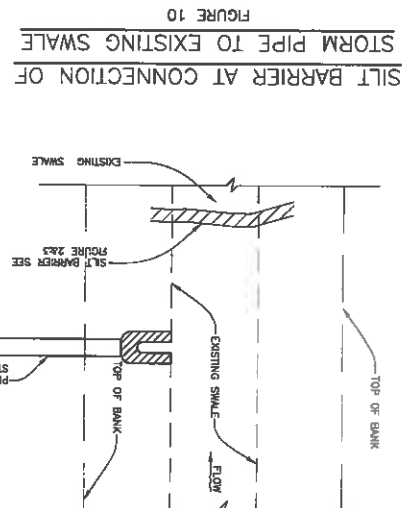
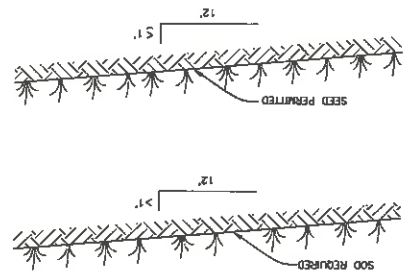
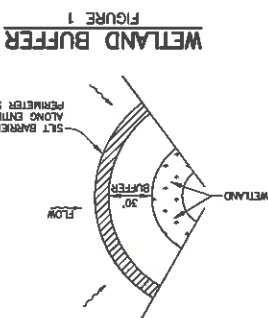
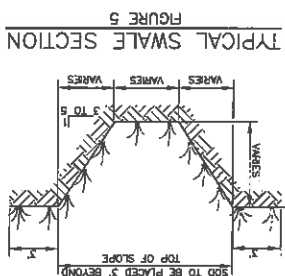
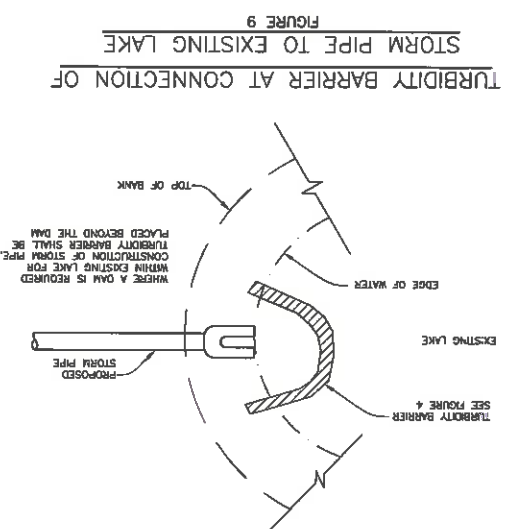
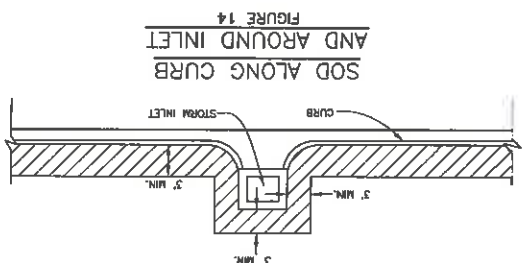
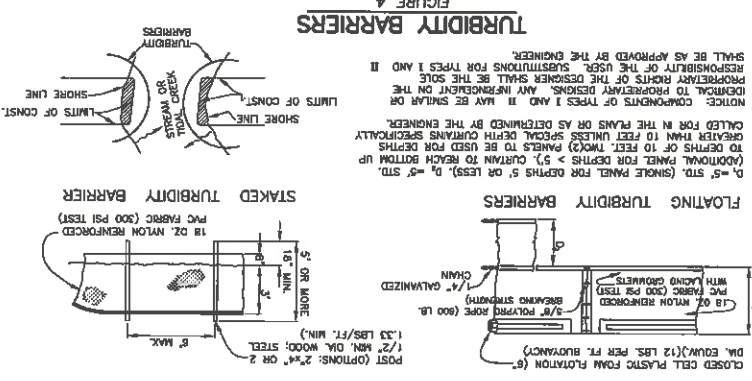
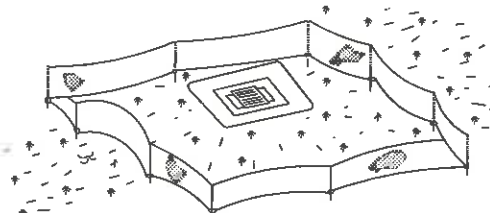


FIGURE 8: PROTECTION AROUND DITCH BOTTOM INLETS. STAKED SILT BARRIER OR SILT FENCE AROUND DITCH BOTTOM INLETS. TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).
 SECTION
 ELEVATION
 3\"/>

PROJECT #	404-6077970
SURVEY #	5118116
SEC./MIN./R/OE	15/35a/18a
SCALE	N/A
BY	
DATE	
SURVEYED	KYATT 01/02/16
DESIGNED	AB/JEA 07/20/16
CHECKED	AB 07/21/16
ANTHONY BENNETZ P.E.	FLORIDA P.E. # 69130
SHEET 11 OF 14	

63RD ST. E. WATERMAIN
 61ST ST. E. TO S.R. 70 E.
 EROSION CONTROL

MANNATEES FLORIDA
 ENGINEERING SERVICES
 1823 10th Avenue East, Bradenton, FL 34208