

UTILITY PERMIT

PERMIT NO: 2024-H-194-00171

STATE ROAD INFORMATION

County: Manatee	Section:	State Road No: SR 64	Beginning Mile Post: 0.355	Ending Mile Post: 1.581
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APPLICANT INFORMATION

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

<u>Utility Agency/Owner (UAO)</u>		<u>Utility Builder (only applicable when the UAO is a City or County)</u>	
Name:	<u>Manatee County</u>	Name:	_____
Contact Person:	<u>Manatee County</u>	Contact Person:	_____
Address:	<u>1022 26th Avenue East</u>	Address:	_____
City:	<u>Bradenton</u>	City:	_____
State:	<u>Florida</u>	State:	_____
Zip:	<u>34208</u>	Zip:	_____
Telephone:	<u>(941) 708-7450 ext. _____</u>	Telephone:	_____
Email:	<u>scott.may@mymanatee.org</u>	Email:	_____

WORK DESCRIPTION

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

The SR 64 (Manatee Avenue) Water Main Intracoastal Crossing project consists of relocating the 16" water main to the north side of the existing Manatee Avenue Bridge, outside of the proposed alignment. The proposed water main includes 2500 LF of 16" Class 350 DIP installed via Open Cut, 50 LF of 16" Class 350 DIP installed via Jack and Bore, and 3800 LF of 20" DR 9 HDPE installed via Horizontal Directional Drill. No dredging or discharge of fill material will occur. The pr ... (see work description cont. page)

Utility Work No: _____

Additional sheets are attached and are incorporated into this permit Yes ☐ No ☒

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes ☒ No ☐

TRAFFIC CONTROL (TCP)

- ☒ The TCP will comply with the following 600 series index(es) 601, 602, 660
- ☐ A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2.

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: _____ Telephone: _____ Email: _____

COMMENCEMENT OF WORK

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: 1/20/2025

Calendar days needed to completed: 670

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

UTILITY PERMIT**PERMIT NO:** 2024-H-194-00171**APPLICANT SIGNATURE**

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified:

10/5/2023

Name of other facility owners (attach additional sheets if necessary).

Charter Spectrum10/5/2023City of Bradenton Public Works10/5/2023FPL10/5/2023Frontier10/5/2023MCI (Verizon)

Utility Agency/Owner

Utility Builder (when applicable)

Signature: MICHAEL STURM (digital signature) Date: 7/1/2024Name (printed): MICHAEL STURM

Title: _____

Signature: _____ Date: _____

Name (printed): _____

Title: _____

FDOT PROJECT INFORMATION

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:

FDOT construction is proposed or underway. Refer to Financial Project Id: 440237-1, 408185-3

This work is NOT related to an approved Utility work Schedule.

FDOT SPECIAL INSTRUCTIONS

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.

1. Permit shall be rendered void if the Manatee Ops Permits Office is not notified (i.e. Phone and/or Email) a minimum of TWO (2) BUSINESS DAYS PRIOR TO STARTING WORK and again immediately upon COMPLETION OF WORK. Phone No: 941-708-4400, Email: curtis.vilt@dot.state.fl.us. (Upon notifying provide: Permit Number, Contact Information, Location, General Scope and Timeframe of the work)

2. If LANE CLOSURE(S) for this Permit are required, the Permittee MUST ... (see

Additional FDOT Special Instructions are attached and incorporated into this permit. Yes ☐ No ☒

PERMIT APPROVAL

By signature below, FDOT gives permission to the UAO and/or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: Curtis Vilt (digital signature) Date: 11/12/2024Name: Curtis ViltTitle: MAINTENANCE MANAGER/PERMITSNotification of Utility Work to be provided to: Telephone (941) 708-4447 ext. _____ or Email: curtis.vilt@dot.state.fl.us

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes ☐ No ☐

Rep. Name: _____ Telephone _____ Email: _____

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

Florida Department of Transportation
UTILITY PERMIT

December 14, 2016

PERMIT NO: 2024-H-194-00171

CERTIFICATION

I, the undersigned UAO and/or Utility Builder, hereby CERTIFY that the utilities were constructed and inspected in compliance with the UAM all incorporated documents, and special instructions. Pursuant to UAM Section 2.11, all changes have been approved by the FDOT's Approving Engineer and incorporated into this permit along with all other material certifications, test results, bore logs, approved plans changes, as-built plans or other required documentation.

I also CERTIFY that work began on _____ and was completed on _____ and that the area was left in as good or better condition than when the work began.

Utility Agency/Owner

Utility Builder (when applicable)

Signature: _____ Date _____

Signature: _____ Date _____

Name (printed): _____

Name (printed): _____

Title: _____

Title: _____

FINAL INSPECTION OF WORK

☐ The work was inspected and found to be in non-compliance as noted below:

☐ All issues of non-compliance listed above have been brought into compliance and/or FDOT has no outstanding issues that need to be addressed by the UAO and/or Utility Builder. However, this final inspection does not release the UAO and/or Utility Builder of their continuing responsibilities pursuant to Rule 14-46.001, the UAM, all incorporated documents, and special instructions.

FDOT Inspector: _____ Date: _____

Name: _____

Title: _____

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2024-H-194-00171
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11/12/2024

PERMIT NO.: 2024-H-194-00171

The complete Work Description could not fit in the space allotted on Page 1 of the Utility Permit so it is displayed below.

Work Description

The SR 64 (Manatee Avenue) Water Main Intracoastal Crossing project consists of relocating the 16" water main to the north side of the existing Manatee Avenue Bridge, outside of the proposed alignment. The proposed water main includes 2500 LF of 16" Class 350 DIP installed via Open Cut, 50 LF of 16" Class 350 DIP installed via Jack and Bore, and 3800 LF of 20" DR 9 HDPE installed via Horizontal Directional Drill. No dredging or discharge of fill material will occur. The project also includes removal of 3050 LF of existing buried water main and 1570 LF of existing water main on bridge deck.

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11/12/2024

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STATE ROAD INFORMATION:

NAME OF OTHER FACILITY OWNERS / DATE NOTIFIED:

Facility Name: TECO/Peoples Gas, Date Notified: 10/5/2023

FDOT PROJECT INFORMATION:

FDOT construction is proposed or underway. Refer to Financial Project Id: 440237-1, 408185-3
This work is NOT related to an approved Utility Work Schedule.

THE WORK WAS INSPECTED AND FOUND TO BE IN NON-COMPLIANCE AS NOTED BELOW:

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

The complete special instructions could not fit in the space allotted on Page 2 of the Utility Permit so they are displayed below.

Special FDOT Instructions

1. Permit shall be rendered void if the Manatee Ops Permits Office is not notified (i.e. Phone and/or Email) a minimum of TWO (2) BUSINESS DAYS PRIOR TO STARTING WORK and again immediately upon COMPLETION OF WORK. Phone No: 941-708-4400, Email: curtis.vilt@dot.state.fl.us. (Upon notifying provide: Permit Number, Contact Information, Location, General Scope and Timeframe of the Work)
2. If LANE CLOSURE(S) for this Permit are required, the Permittee MUST notify the Department (Valerie Everts, Phone No: 941-708-4433, Email: valerie.everts@dot.state.fl.us) two (2) weeks prior to starting the LANE CLOSURE(S) to inform the motoring public. FAILURE TO COMPLY WILL RESULT IN DELAY TO START WORK.
3. If Permit work is being proposed during a FDOT Construction project, it will be the RESPONSIBILITY OF THE PERMITTEE TO COORDINATE with the FDOT's contractor.
4. All portions of disturbed ROW shall be restored with sod within seventy-two (72) hours of completion of work.
5. Your project falls within the limits of the Manatee County Advanced Traffic Management System (ATMS). The Manatee County ATMS is owned and operated by the FDOT while the County maintains the system as part of the Traffic Signal Maintenance and Compensation Agreement. The ATMS infrastructure within this project's limits includes underground fiber optic communication infrastructure along SR 64. The PDF file attached to this comment shows the approximate location of the existing ATMS underground infrastructure. Based on the permit plans, it appears this project will be removing underground infrastructure near the existing ATMS infrastructure. It is the responsibility of this project's contractor to avoid conflicts with the existing underground ATMS infrastructure by, at minimum, locating the facilities prior to removing the existing underground infrastructure. Any impacts to the existing ATMS infrastructure that were not identified in this review are the responsibility of the permittee to resolve within this project.

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

CONSTRUCTION PLANS
FOR
SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING

MANATEE COUNTY, FLORIDA
AUGUST 2024
MANATEE COUNTY PROJECT #6093170
FINANCIAL PROJECT ID 408185-3-52-01



PROJECT TEAM:

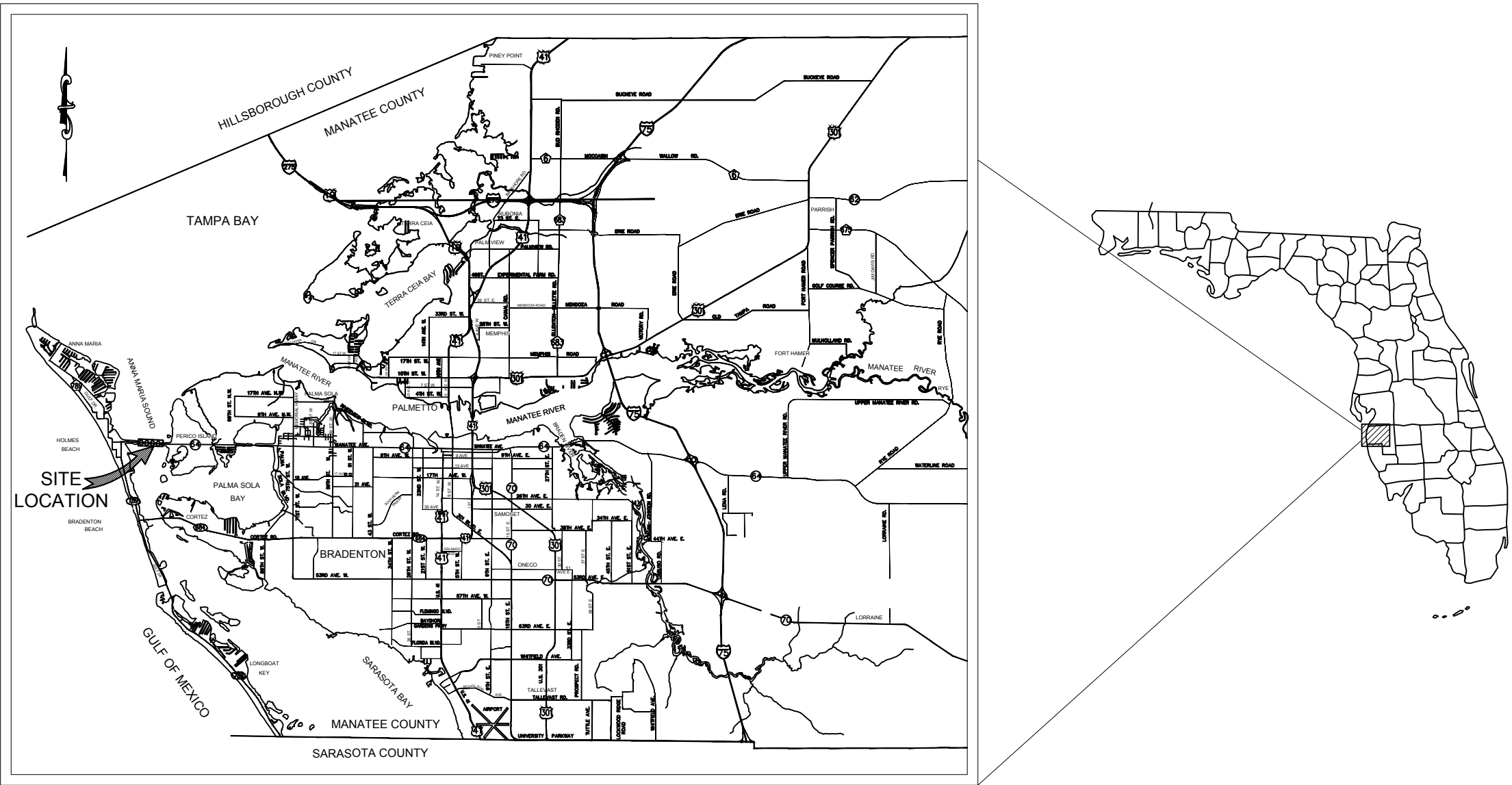
OWNER:
MANATEE COUNTY
1022 26TH AVE. E.
BRADENTON, FL 34208
CONTACT: ANITA WANG, P.E.
941-708-7450 EXT. 7220

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
200 CENTRAL AVE., SUITE 600
ST. PETERSBURG, FL 33701
CONTACT: JORDAN WALKER, P.E.
727-308-4320

SURVEYOR:
RUSSELL P. HYATT, P.S.M.
NO.: 5303
HYATT SURVEY SERVICES, INC.
2012 LENA ROAD
BRADENTON, FL 34211
CERTIFICATE OF AUTHORIZATION: 7203

UTILITY CONTACTS:

COMPANY	CONTACT	TELEPHONE NUMBER
CITY OF BRADENTON	KIM CLAYBACK, P.E.	941-708-6300 EXT. 224
FPL	BRIAN GARVER	239-231-9471
FRONTIER	DENISE HUTTON	941-906-6722
MCI (VERIZON)	ANDY COLE	813-847-4037
MANATEE COUNTY (IT)	BILL KERSEY	941-748-4501 EXT. 5083
MANATEE COUNTY TRAFFIC OPERATIONS	MUKUNDA GOPALAKRISHNA	941-749-3500 EXT. 7859
MANATEE COUNTY UTILITIES	DAVID BRANNING	941-708-7450 EXT. 7662
SPECTRUM	PATRICK PISTNER	941-737-5159
TECO/PEOPLES GAS	ALEX MCFARLANE	813-275-3765
TRANSPORTATION STATISTICS OFFICE		850-921-7300



PROJECT VICINITY MAP
N.T.S.

SHEET LIST	
Sheet Number	Sheet Title
01	COVER SHEET
02	GENERAL NOTES
03	KEY SHEET
04	PLAN AND PROFILE [103+00 - 108+00]
05	PLAN AND PROFILE [108+00 - 113+00]
06	PLAN AND PROFILE [113+00 - 118+00]
07	PLAN AND PROFILE [118+00 - 123+00]
08	PLAN AND PROFILE [123+00 - 128+00]
09	PLAN AND PROFILE [128+00 - 133+00]
10	PLAN AND PROFILE [133+00 - 138+00]
11	PLAN AND PROFILE [138+00 - 143+00]
12	PLAN AND PROFILE [143+00 - 148+00]
13	PLAN AND PROFILE [148+00 - 153+00]
14	PLAN AND PROFILE [153+00 - 158+00]
15	PLAN AND PROFILE [158+00 - 163+00]
16	PLAN AND PROFILE [163+00 - 168+00]
17	DRILL PLAN
18	MAINTENANCE OF DRILL PLAN
19	MAINTENANCE OF DRILL PLAN - LAY DOWN AREA
20	STORM WATER POLLUTION PREVENTION PLAN
21	WEST SECTION VIEWS
22	WEST SECTION VIEWS
23	EAST SECTION VIEWS
24	EAST SECTION VIEWS
25	DETAILS
26	DETAILS
27	DETAILS
28	DETAILS

100% SUBMITTAL

FDOT PERMIT #2024-H-194-00171
MILE POSTS 0.355-1.581

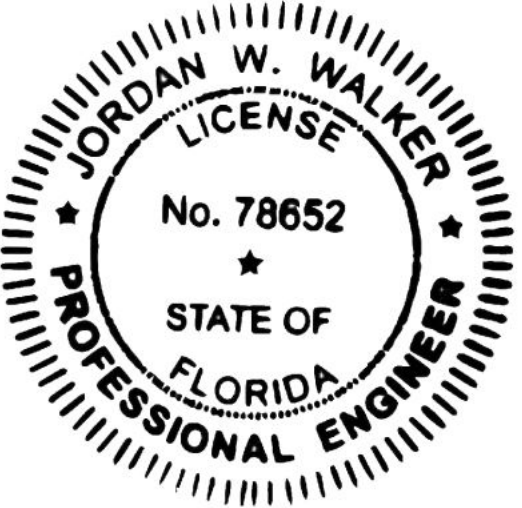
PREPARED BY
Kimley»Horn

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200 CENTRAL AVENUE, SUITE 600
ST. PETERSBURG, FL 33701
PHONE (727) 547-3999
WWW.KIMLEY-HORN.COM Registry No. 35106

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

No.	REVISIONS	DATE	BY

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DATE AUGUST 2024 PROJECT NO. 148400098		SHEET NUMBER 01	

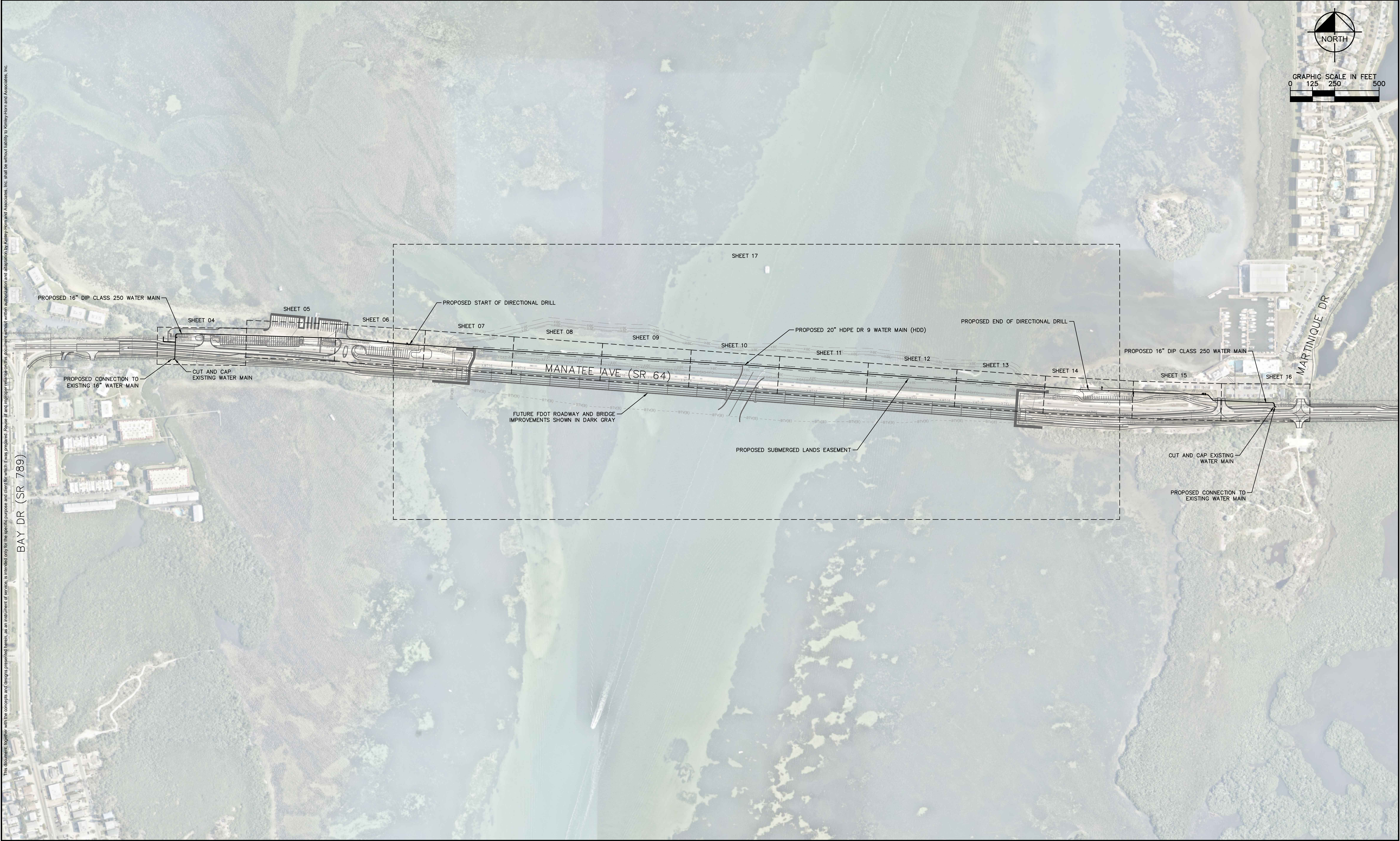


THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

JORDAN WESLEY WALKER, P.E.
No. 78652

ON THE DATE ADJACENT TO THE SEAL

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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400098

DATE
AUGUST 2024

SCALE AS SHOWN

DESIGNED BY JWW

DRAWN BY ALC

CHECKED BY KMS



SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
78652

FL DATE:

KEY SHEET

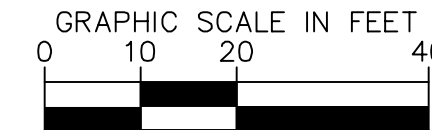
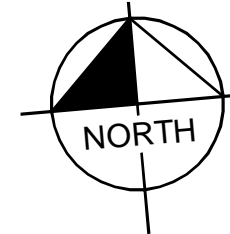
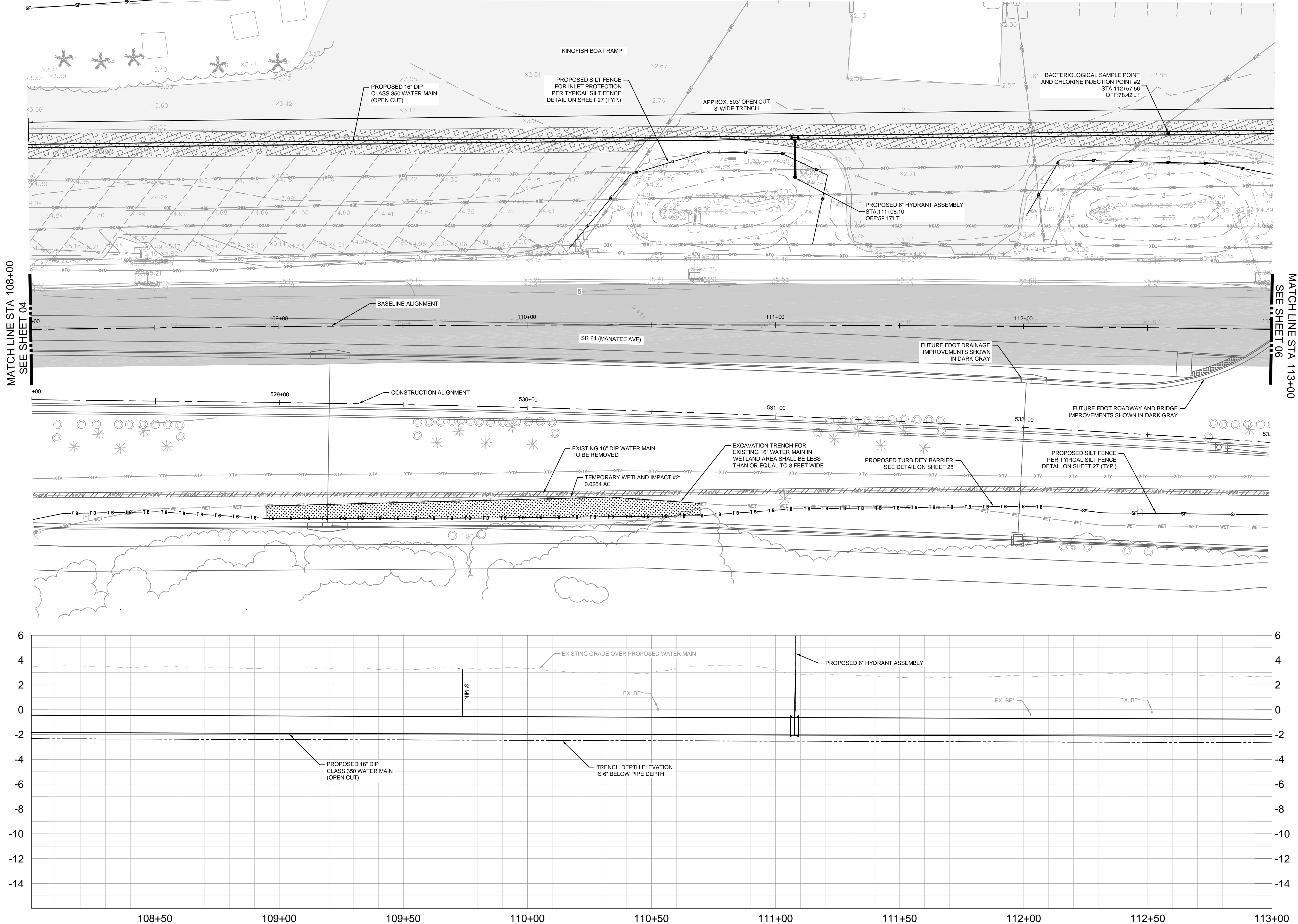
SHEET NUMBER

03

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

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MATCH LINE STA 108+00
SEE SHEET 04



LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
FDOT BANK RUN SHELL RESTORATION	
DEMO EXISTING	
EXISTING ROADWAY	
FDOT BANK RUN SHELL	
WETLAND IMPACTS	

*NOTES:
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED PIPELINES. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT WATER MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED WATER MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

NOTES:

- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED UTILITIES
- CONTRACTOR SHALL RESTRAIN PIPE PER RESTRAIN LENGTHS TABLE ON DETAIL SHEET 25
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
- EXISTING GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION
- WHERE LESS THAN 6' MINIMUM SEPARATION IS SHOWN ALL JOINTS SHALL BE RESTRAINED IN ORDER TO MEET FDEP SEPARATION REQUIREMENTS.

GROUNDWATER / DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



SHEET NUMBER

05

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

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PHONE: 727-547-3999
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KHA PROJECT	148400098
DATE	AUGUST 2024
SCALE	AS SHOWN
DESIGNED BY	JWW
DRAWN BY	ALC
CHECKED BY	KMS



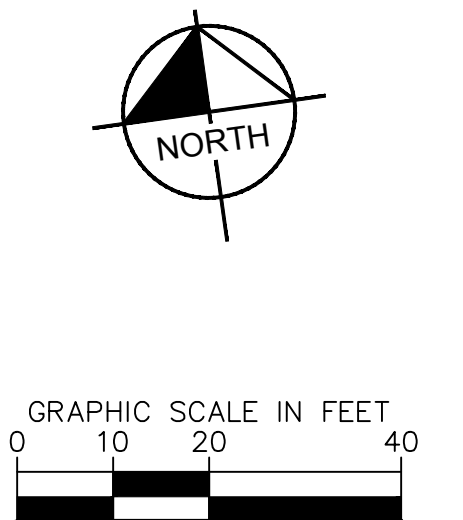
**SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING**

MANATEE COUNTY

LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER
78652

FL DATE:

**PLAN AND PROFILE [108+00 -
113+00]**



WETLAND IMPACTS

WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

5. WHERE LESS THAN 6' MINIMUM SEPARATION IS SHOWN ALL JOINT SHALL BE RESTRAINED IN ORDER TO MEET FDEP SEPARATION REQUIREMENTS.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



06

Approved
2024-H-194-0017
Curtis Vilt
11/12/2024

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No.	REVISIONS	DATE	BY

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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400098	
DATE AUGUST 2024	
SCALE	AS SHOWN
DESIGNED BY	JWW
DRAWN BY	ALC
CHECKED BY	KMS



Manatee
County
FLORIDA

SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

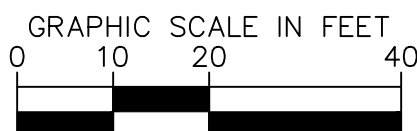
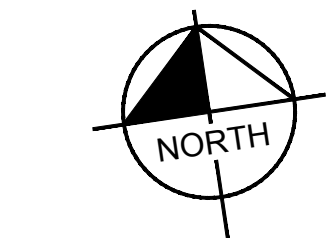
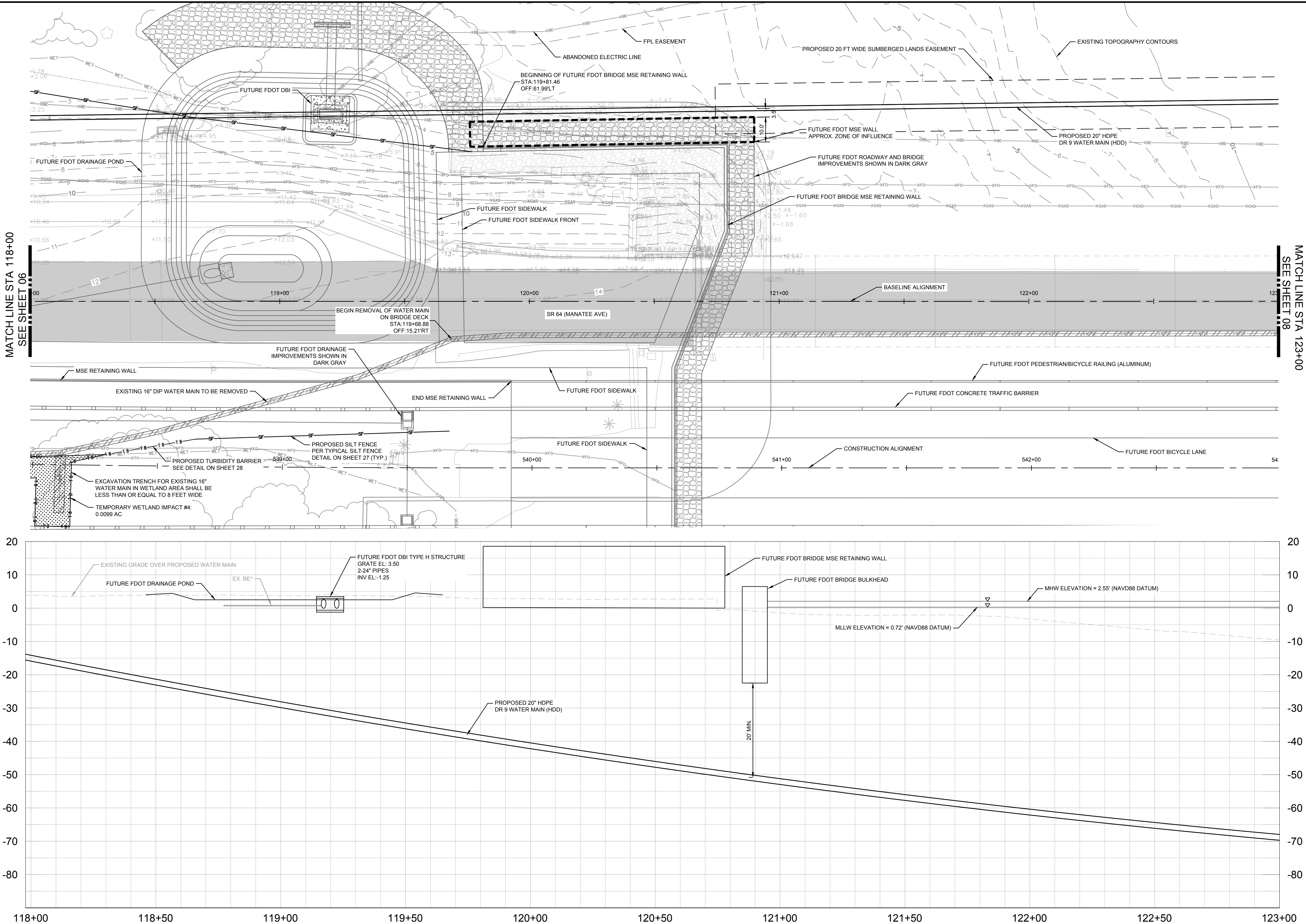
JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
78652

PLAN AND PROFILE [113+00 - 118+00]

FL | DATE

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LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
FDOT BANK RUN SHELL RESTORATION	
DEMO EXISTING	
EXISTING ROADWAY	
FDOT BANK RUN SHELL	
WETLAND IMPACTS	

*NOTES:
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED PIPELINES. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT WATER MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED WATER MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

NOTES:

- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED UTILITIES
- CONTRACTOR SHALL RESTRAIN PIPE PER RESTRAIN LENGTHS TABLE ON DETAIL SHEET 25
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
- EXISTING GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION
- WHERE LESS THAN 6' MINIMUM SEPARATION IS SHOWN ALL JOINTS SHALL BE RESTRAINED IN ORDER TO MEET FDEP SEPARATION REQUIREMENTS.

GROUNDWATER / DEWATERING NOTE:
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SHEET NUMBER

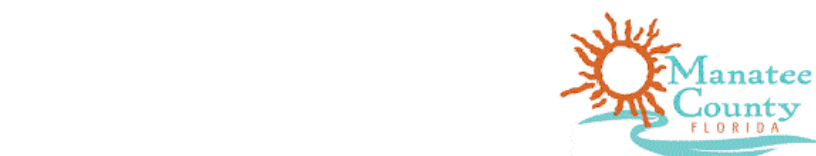
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Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

Kimley»Horn

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200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT	148400098
DATE	AUGUST 2024
SCALE	AS SHOWN
DESIGNED BY	JWW
DRAWN BY	ALC
CHECKED BY	KMS



SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
78652

FL DATE:

PLAN AND PROFILE [118+00 - 123+00]

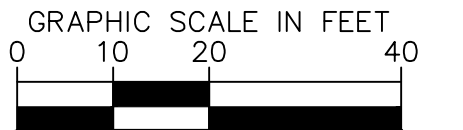
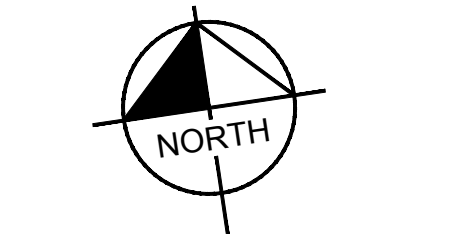
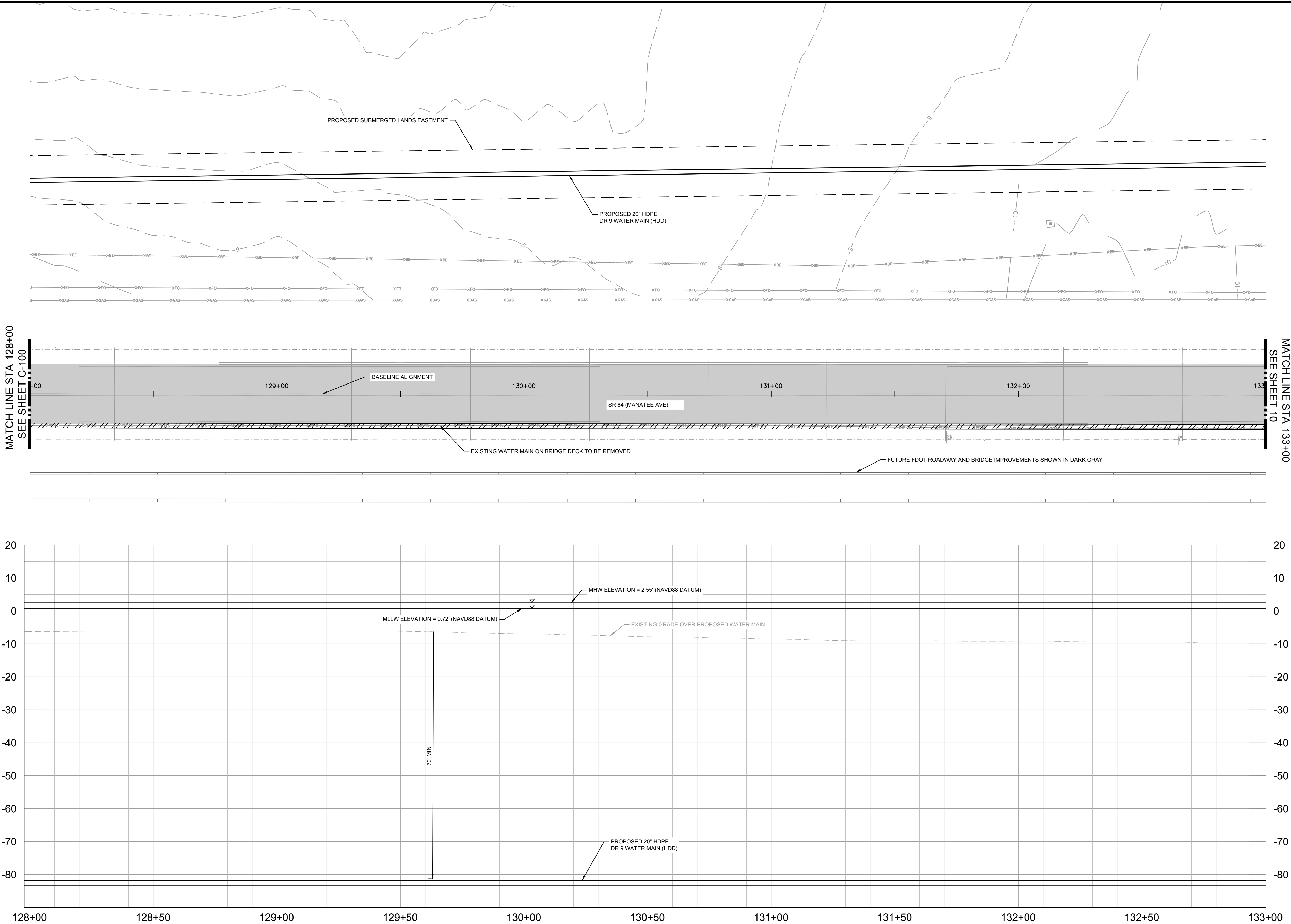


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08

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Curtis Vilt

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LEGEND

- SIDEWALK/CONCRETE DRIVEWAY RESTORATION
- FULL ROADWAY RESTORATION
- MILLING AND RESURFACING
- FDOT BANK RUN SHELL RESTORATION
- DEMO EXISTING
- EXISTING ROADWAY
- FDOT BANK RUN SHELL
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No.	REVISIONS	DATE	BY



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200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400098
DATE AUGUST 2024
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY ALC
CHECKED BY KMS



**SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING**

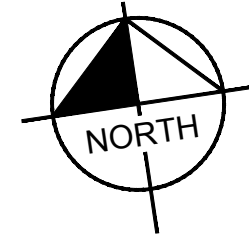
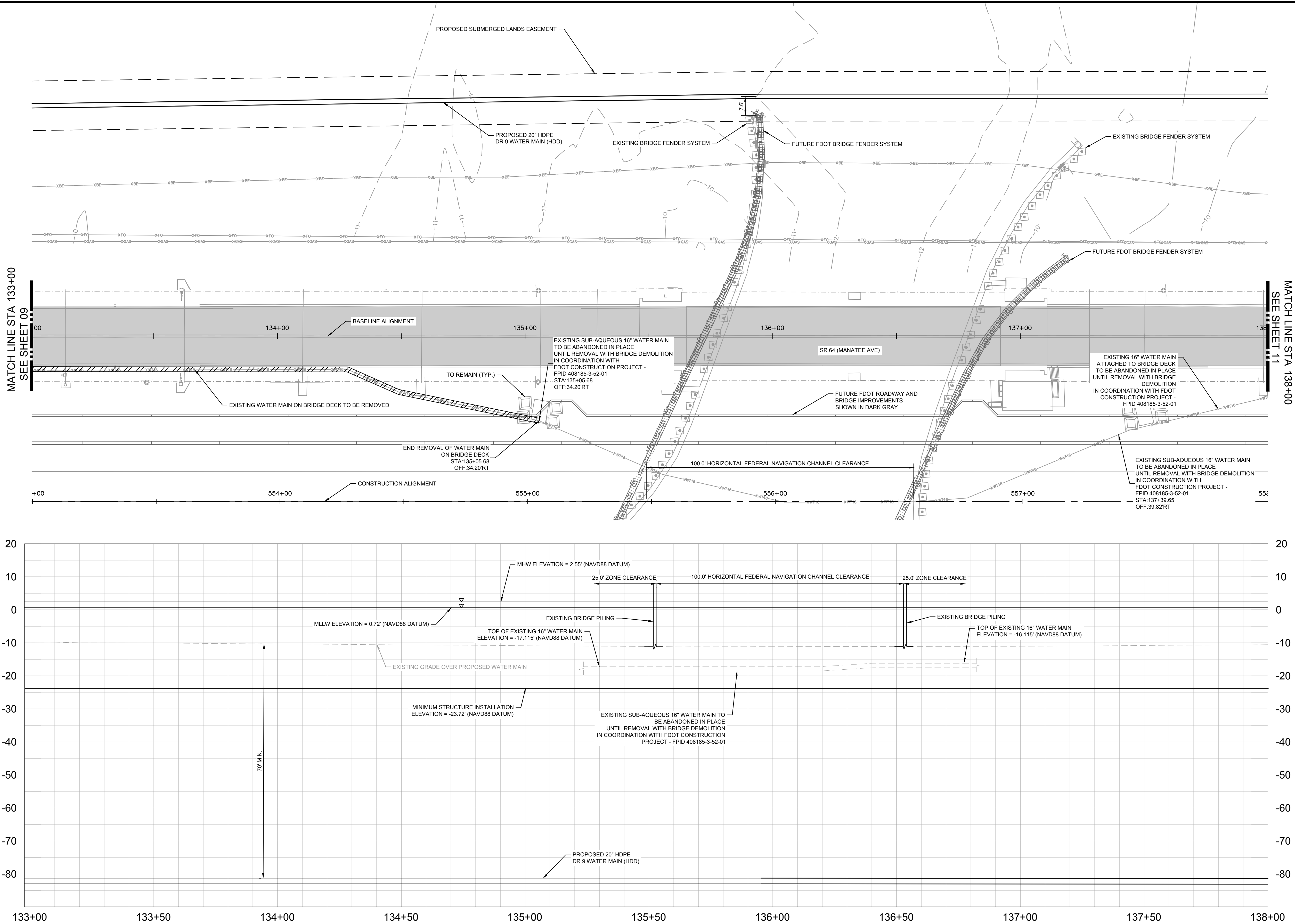
MANATEE COUNTY

LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER 78652
FL DATE:

**PLAN AND PROFILE [128+00 -
133+00]**

SHEET NUMBER
09
Approved 2024-H-194-00171 Curtis Vilt 11/12/2024

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SHEET NUMBER

10

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400098
DATE
AUGUST 2024
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY ALC
CHECKED BY KMS



**SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING**

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

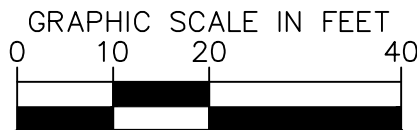
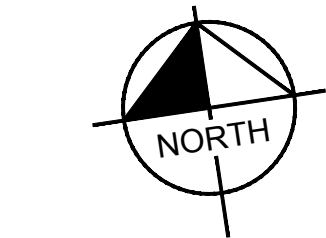
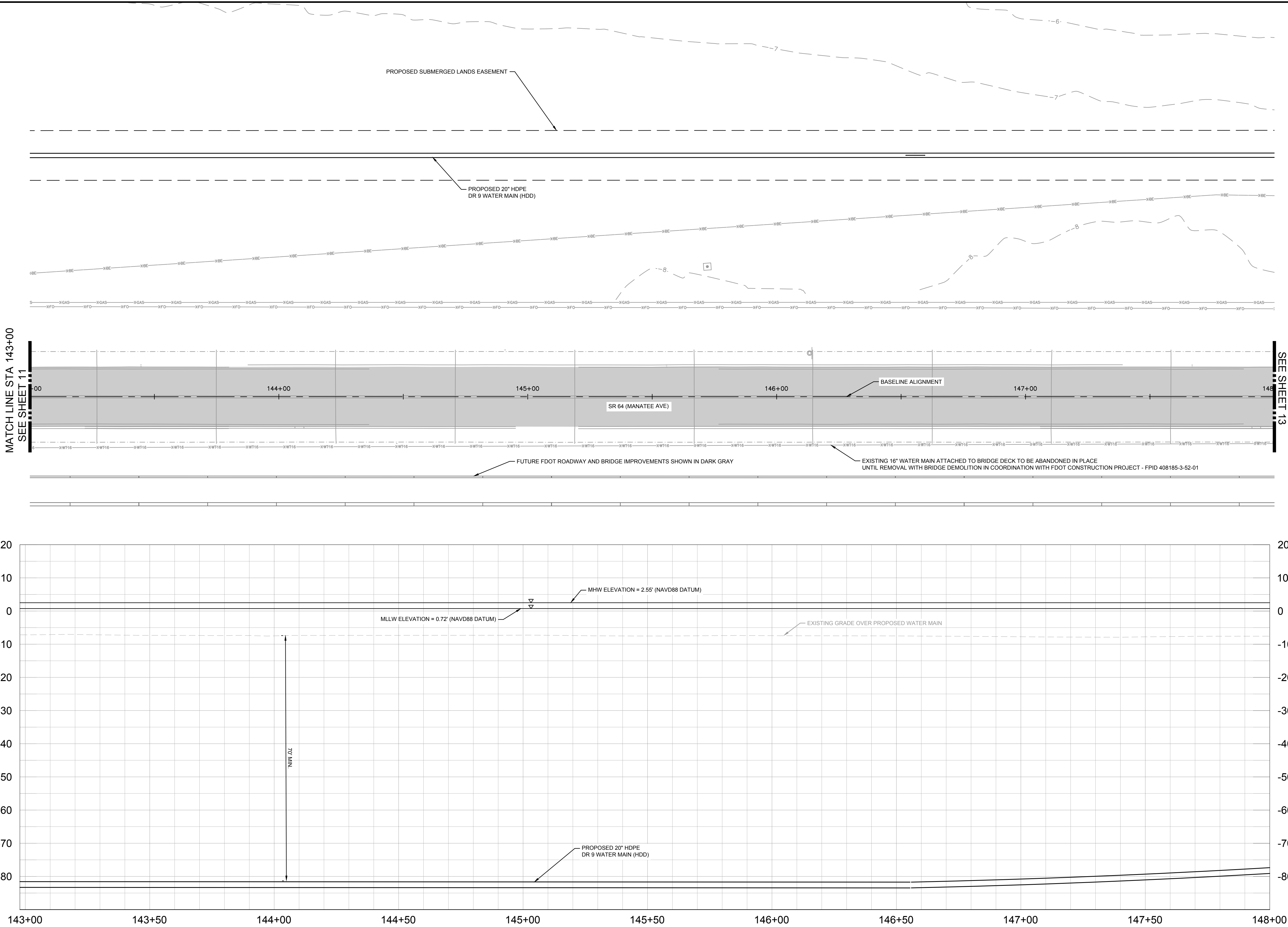
FL LICENSE NUMBER
78652

FL DATE:

**PLAN AND PROFILE [133+00 -
138+00]**

11

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No.	REVISIONS	DATE	BY

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200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400098

DATE
AUGUST 2024

SCALE AS SHOWN

DESIGNED BY JWW

DRAWN BY ALC

CHECKED BY KMS

SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
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FL DATE:

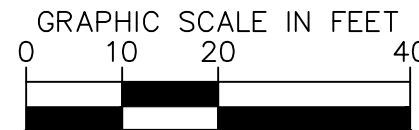
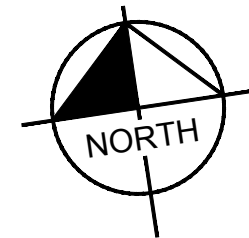
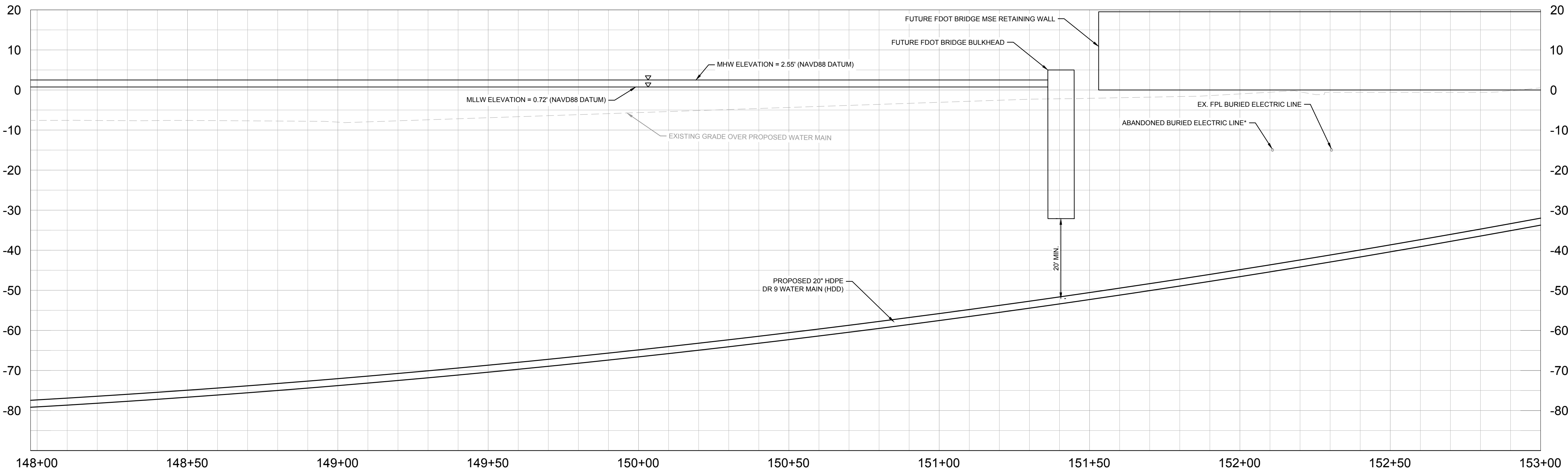
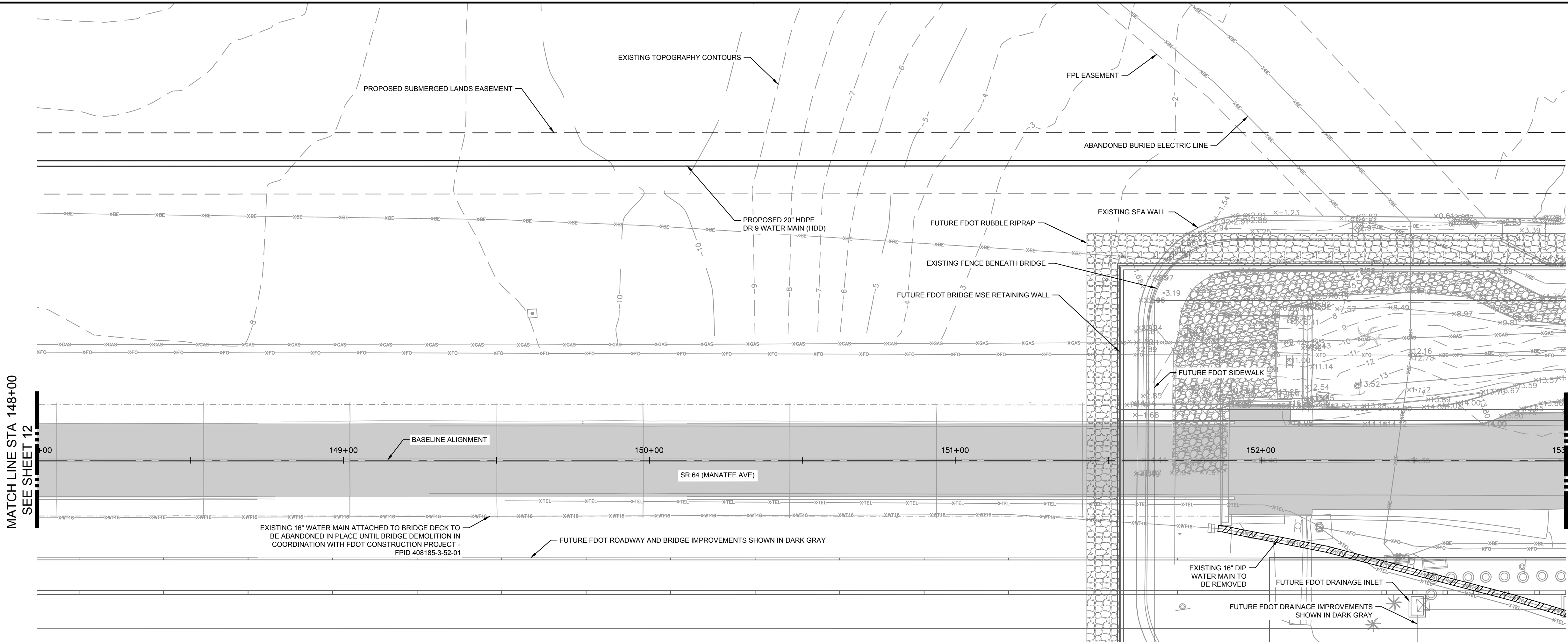
PLAN AND PROFILE [143+00 - 148+00]

SHEET NUMBER

12

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

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FULL ROADWAY RESTORATION	
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Kimley»Horn

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200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400098
DATE AUGUST 2024
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY ALC
CHECKED BY KMS

**SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING**
MANATEE COUNTY

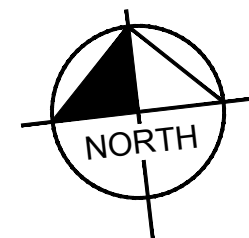
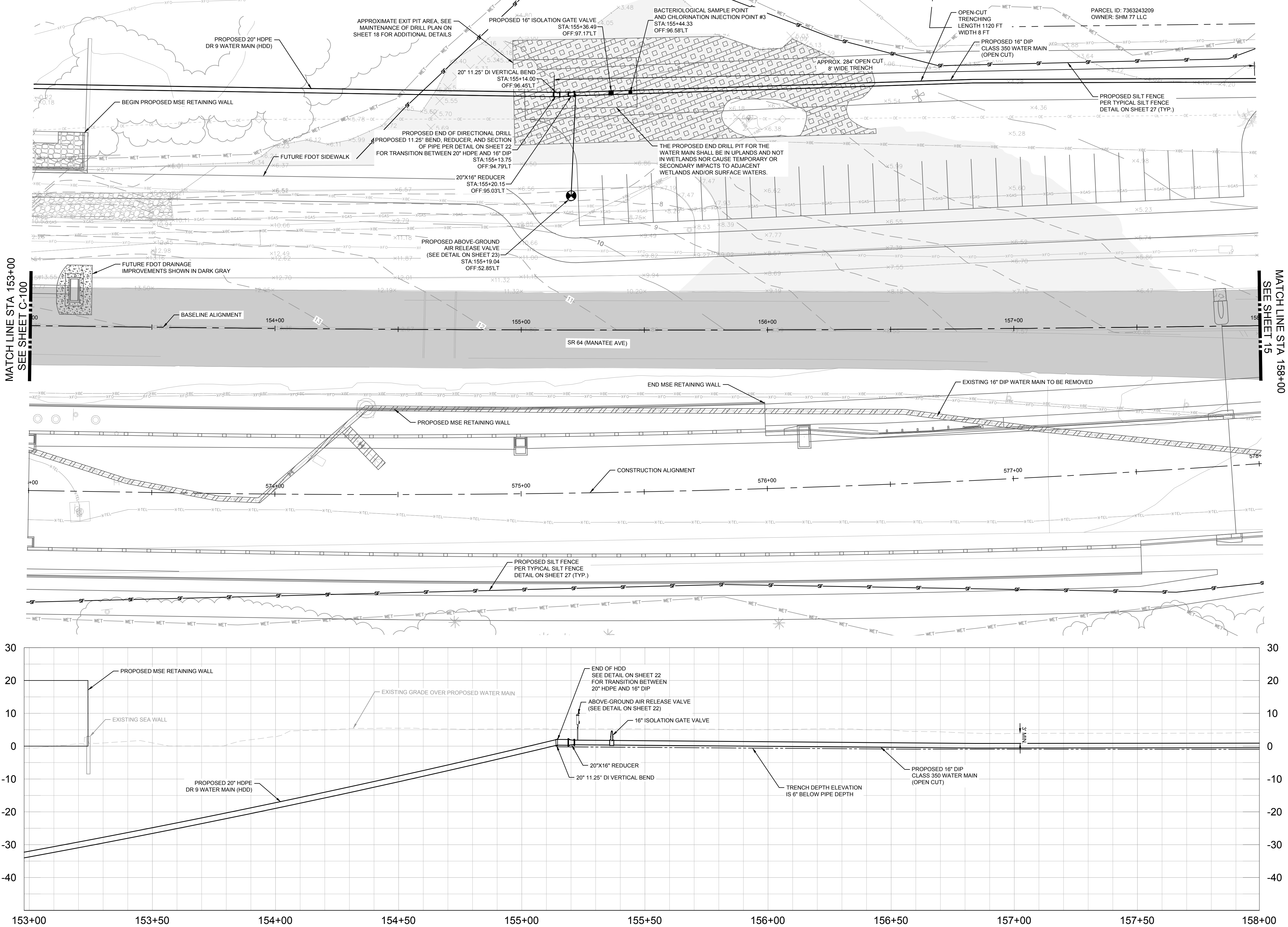
LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER 78652
FL DATE:

**PLAN AND PROFILE [148+00 -
153+00]**

SHEET NUMBER

13
Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

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KHA PROJECT
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AUGUST 2024

SCALE AS SHOWN

DESIGNED BY JWW

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SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
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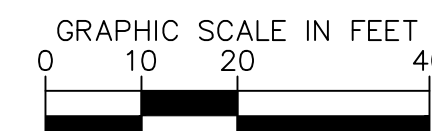
FL DATE:

PLAN AND PROFILE [153+00 - 158+00]

SHEET NUMBER

14

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024



LEGEND

- | | |
|--|--|
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| FULL ROADWAY RESTORATION | |
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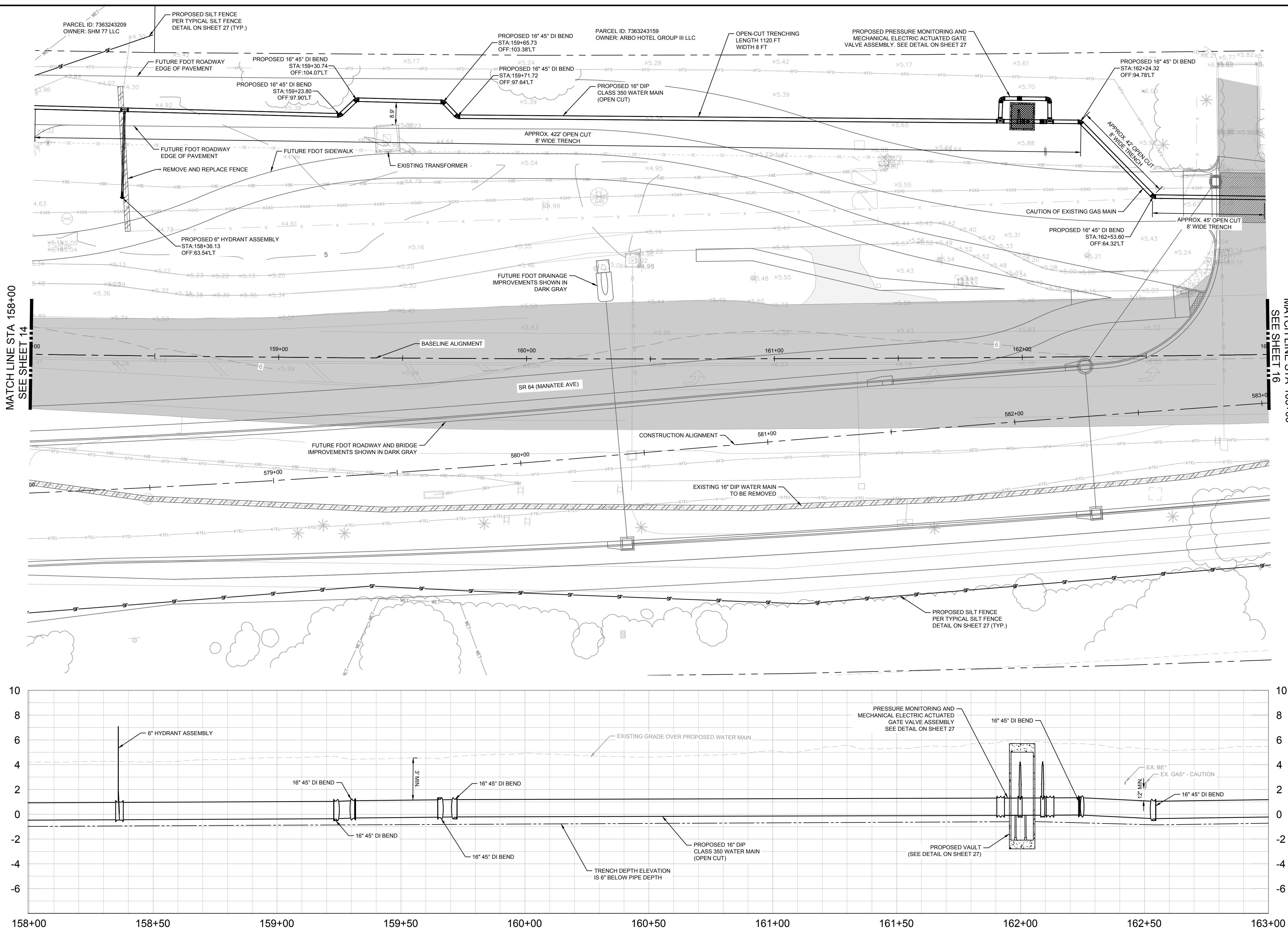
15

Approved

24-H-194-0C

Curtis Vilt

11/12/2024



No.	REVISIONS	DATE	BY

Kimley»»Horn

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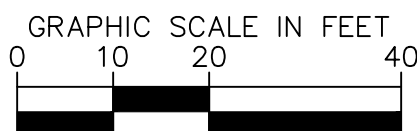
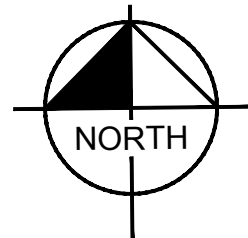
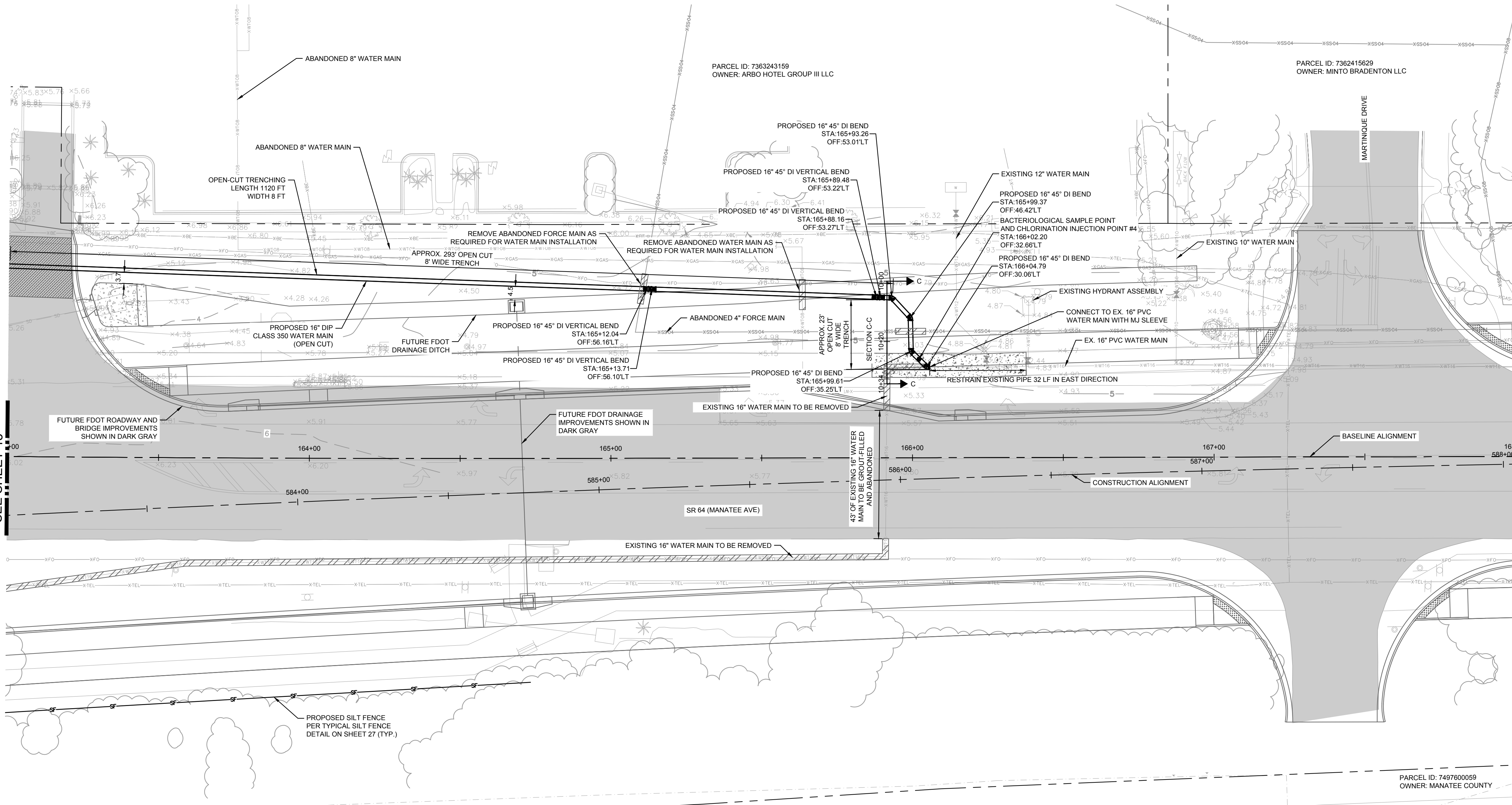
FL LICENSE NUMBER
78652

FL | DATE

PLAN AND PROFILE [158+00 - 163+00]

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MATCH LINE STA 163+00
SEE SHEET 15



LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
FDOT BANK RUN SHELL RESTORATION	
DEMO EXISTING	
EXISTING ROADWAY	
FDOT BANK RUN SHELL	
WETLAND IMPACTS	

*NOTES:
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED PIPELINES. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT WATER MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED WATER MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

NOTES:

- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED UTILITIES
- CONTRACTOR SHALL RESTRAIN PIPE PER RESTRAIN LENGTHS TABLE ON DETAIL SHEET 25
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
- EXISTING GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION
- WHERE LESS THAN 6" MINIMUM SEPARATION IS SHOWN ALL JOINTS SHALL BE RESTRAINED IN ORDER TO MEET FDOT SEPARATION REQUIREMENTS.

GROUNDWATER / DEWATERING NOTE:

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



SHEET NUMBER

16

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400098
DATE
AUGUST 2024
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY ALC
CHECKED BY KMS

SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

MANATEE COUNTY



LICENSED PROFESSIONAL

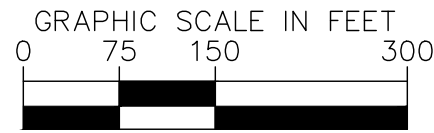
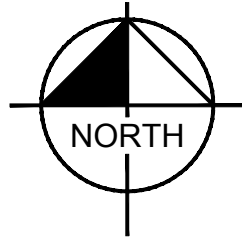
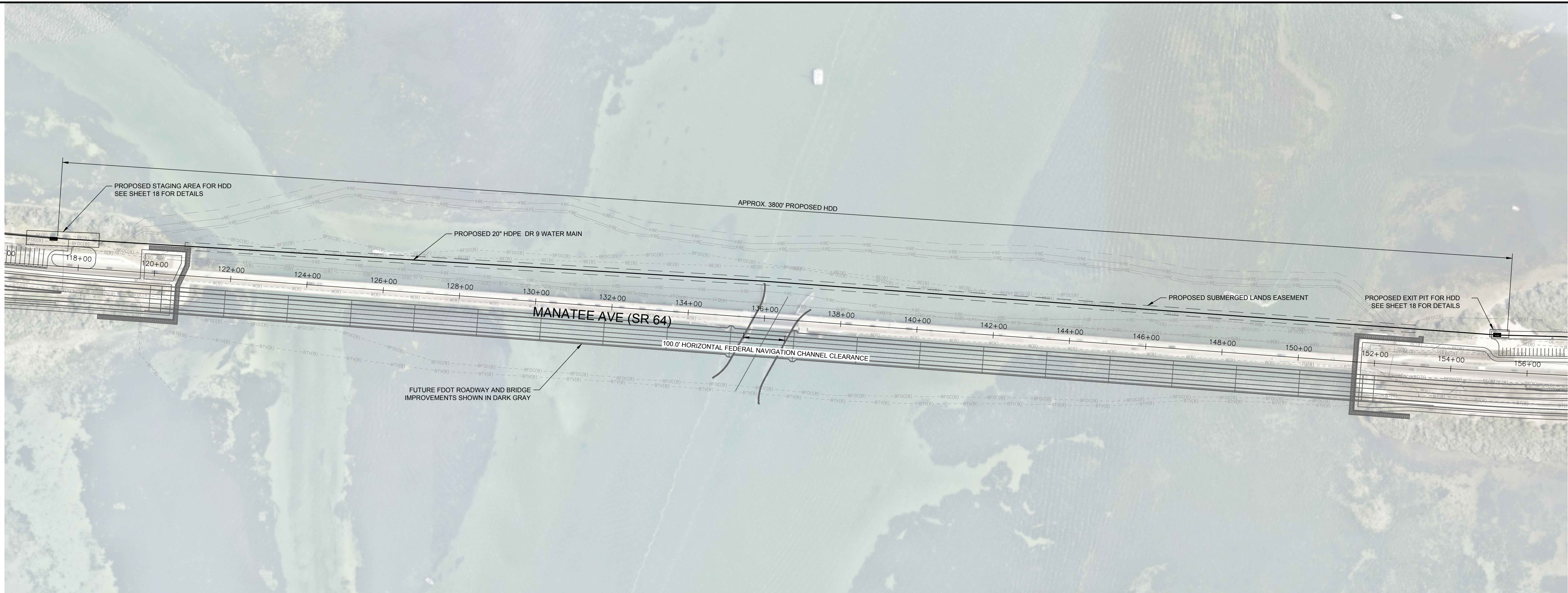
JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
78652

FL DATE:

PLAN AND PROFILE [163+00 -
168+00]

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HORIZONTAL SCALE: 1" = 150'
VERTICAL SCALE: 1" = 20'

LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
FDOT BANK RUN SHELL RESTORATION	
DEMO EXISTING	
EXISTING ROADWAY	
FDOT BANK RUN SHELL	
WETLAND IMPACTS	

*NOTES:
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NOTES:

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- EXISTING GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION
- WHERE LESS THAN 6' MINIMUM SEPARATION IS SHOWN ALL JOINTS SHALL BE RESTRAINED IN ORDER TO MEET FDEP SEPARATION REQUIREMENTS.

GROUNDWATER / DEWATERING NOTE:

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SHEET NUMBER

17

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2024-H-194-00171
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KHA PROJECT
148400098
DATE
AUGUST 2024
SCALE AS SHOWN
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DRAWN BY ALC
CHECKED BY KMS



SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

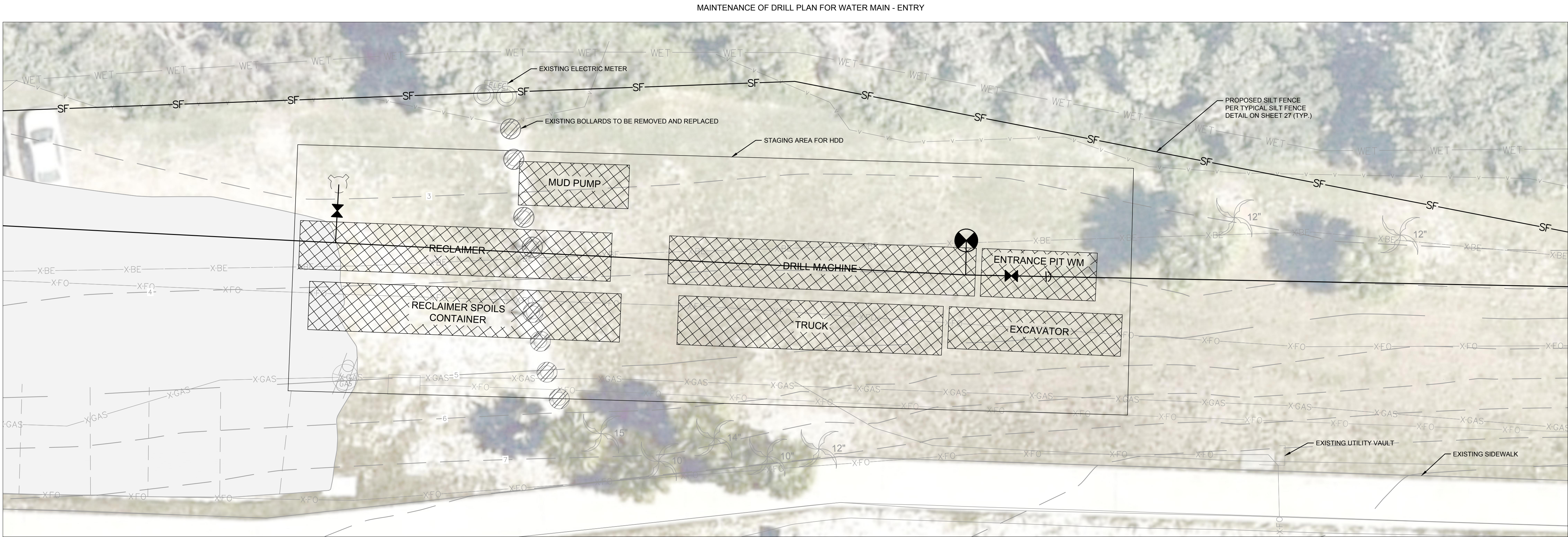
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FL DATE:

DRILL PLAN

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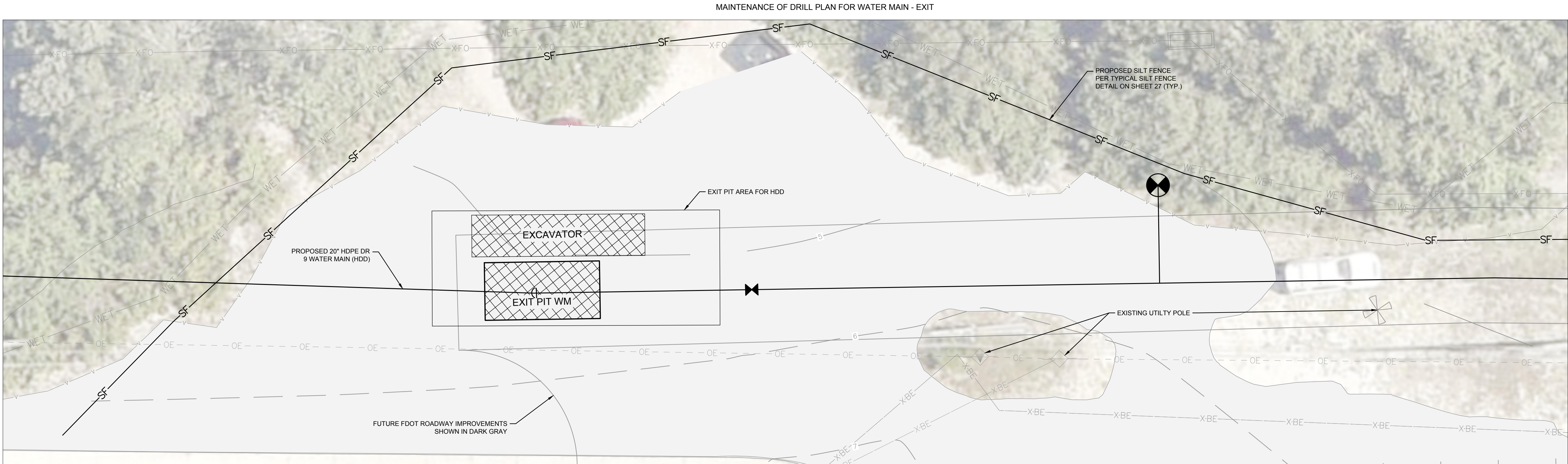
FDOT BANK RUN SHELL

DEMO EXISTING

DRILL EQUIPMENT

SILT FENCE PER TYPICAL SILT FENCE DETAIL ON SHEET 27

MAINTENANCE OF DRILL PLANS SHOWN ONLY AS AN APPROXIMATION FOR CONTRACTOR INFORMATION. THE CONTRACTOR SHALL SUBMIT THEIR OWN DIRECTIONAL DRILL PLAN PRIOR TO MOBILIZATION AND USE THEIR OWN MEANS AND METHODS FOR THE CONSTRUCTION OF THE PIPELINES.



GROUNDWATER / DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

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148400098

DATE
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SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
78652

FL DATE:

MAINTENANCE OF DRILL PLAN

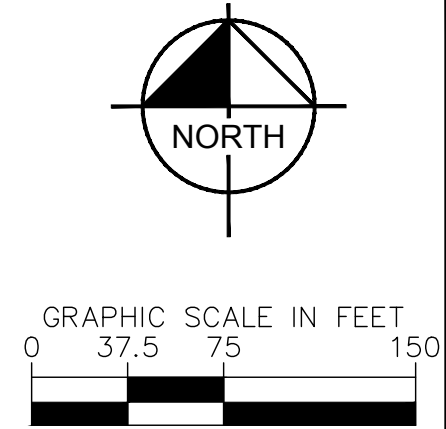
SHEET NUMBER

18

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2024-H-194-00171
Curtis Vilt
11/12/2024

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MATCH LINE STA 174+00
SEE ABOVE



MAINTENANCE OF DRILL PLANS SHOWN ONLY AS AN APPROXIMATION FOR CONTRACTOR INFORMATION. THE CONTRACTOR SHALL SUBMIT THEIR OWN DIRECTIONAL DRILL PLAN PRIOR TO MOBILIZATION AND USE THEIR OWN MEANS AND METHODS FOR THE CONSTRUCTION OF THE PIPELINES.

LEGEND

ROADWAY

GROUNDWATER / DEWATERING NOTE:
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SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
78652

FL DATE:

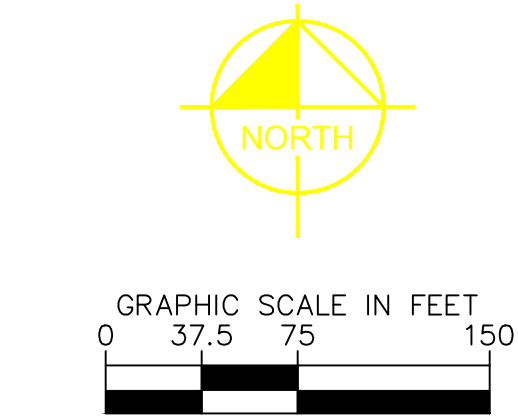
MAINTENANCE OF DRILL PLAN -
LAY DOWN AREA

SHEET NUMBER

19

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- LEGEND**
- INLET PROTECTION PER AND SEDIMENT BARRIER PER INLET PROTECTION DETAIL ON SHEET 28
 - SOCK DRAIN INLET PROTECTION PER DETAIL ON SHEET 28
 - SILT FENCE PER TYPICAL SILT FENCE DETAIL ON SHEET 27
 - WETLAND DELINEATION
 - TURBIDITY BARRIER PER DETAIL ON SHEET 28

THIS EROSION CONTROL PLAN IS FOR GENERAL GUIDANCE. CONTRACTOR SHALL PROVIDE AN EROSION CONTROL PLAN THAT IS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE COUNTY AND THE PERMITTING AGENCY.



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**SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING**

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
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FL DATE:

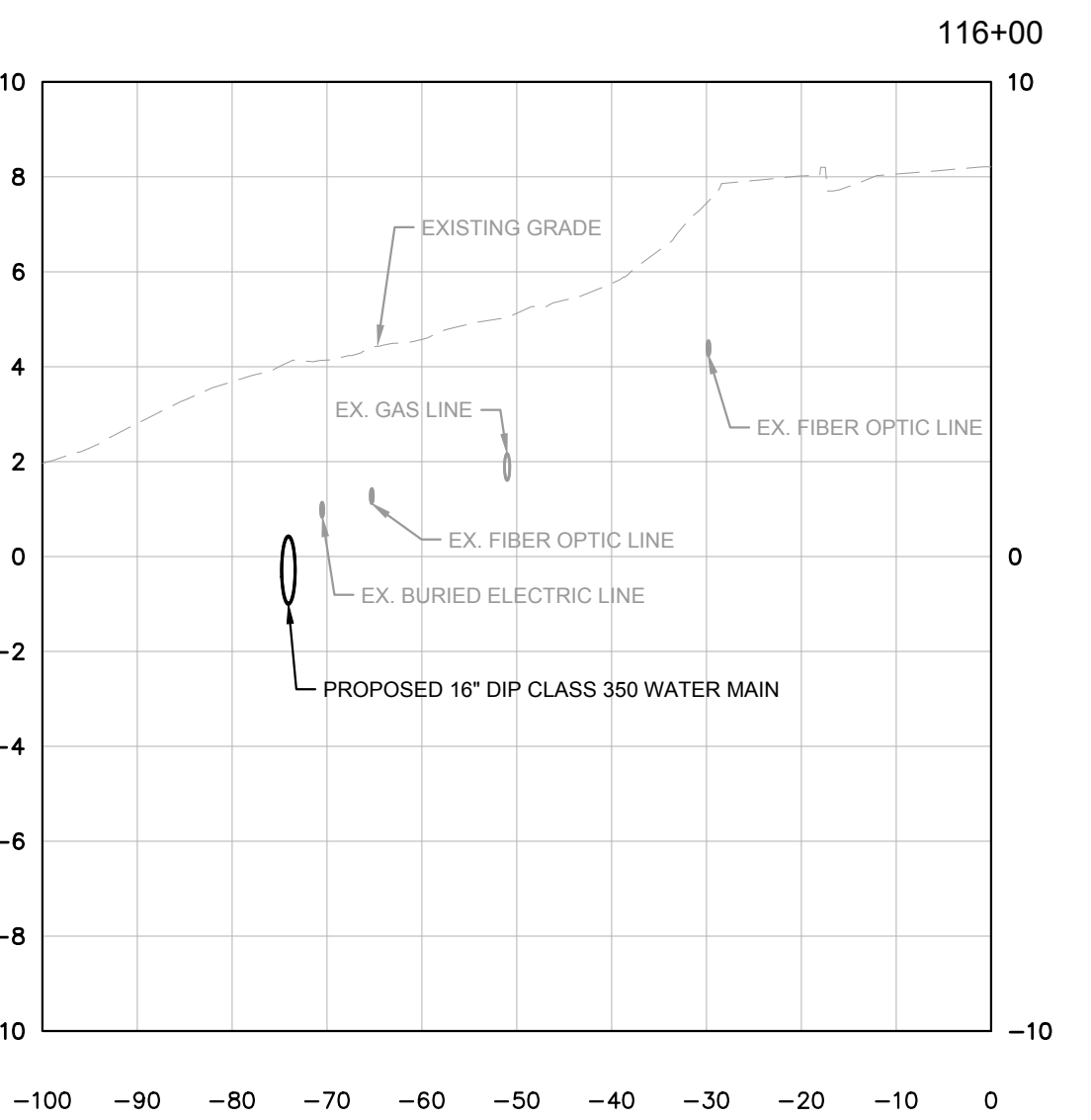
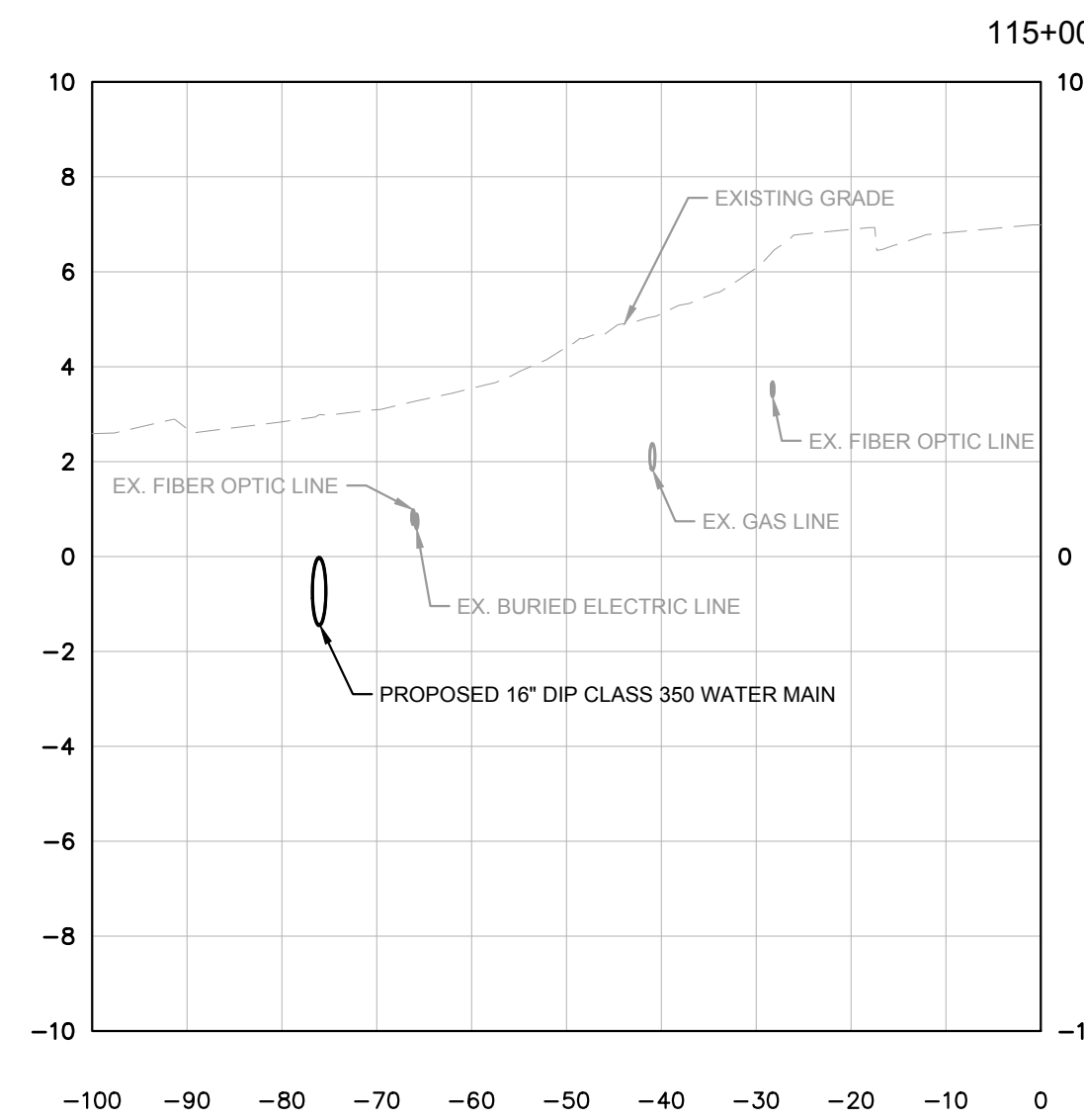
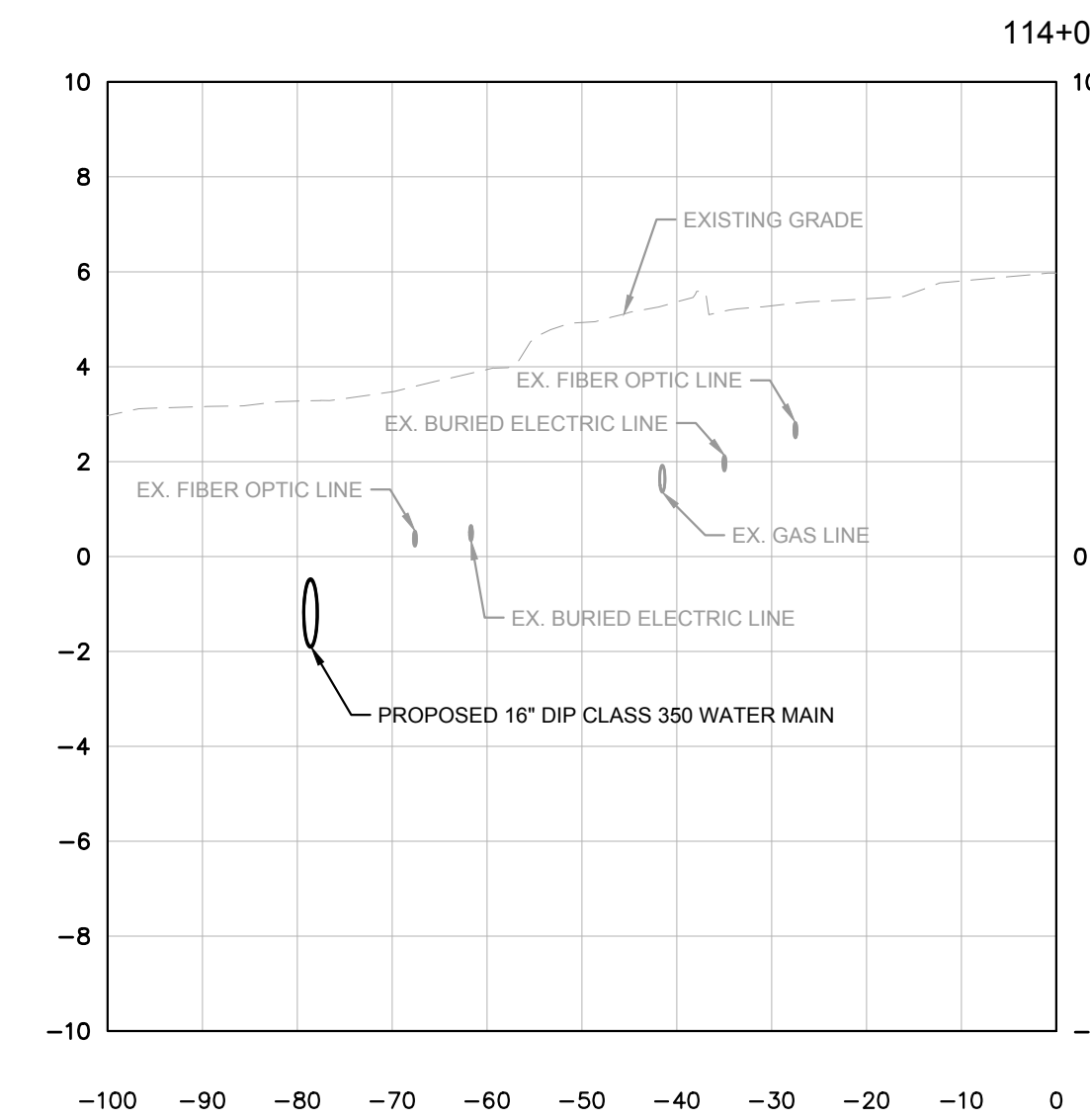
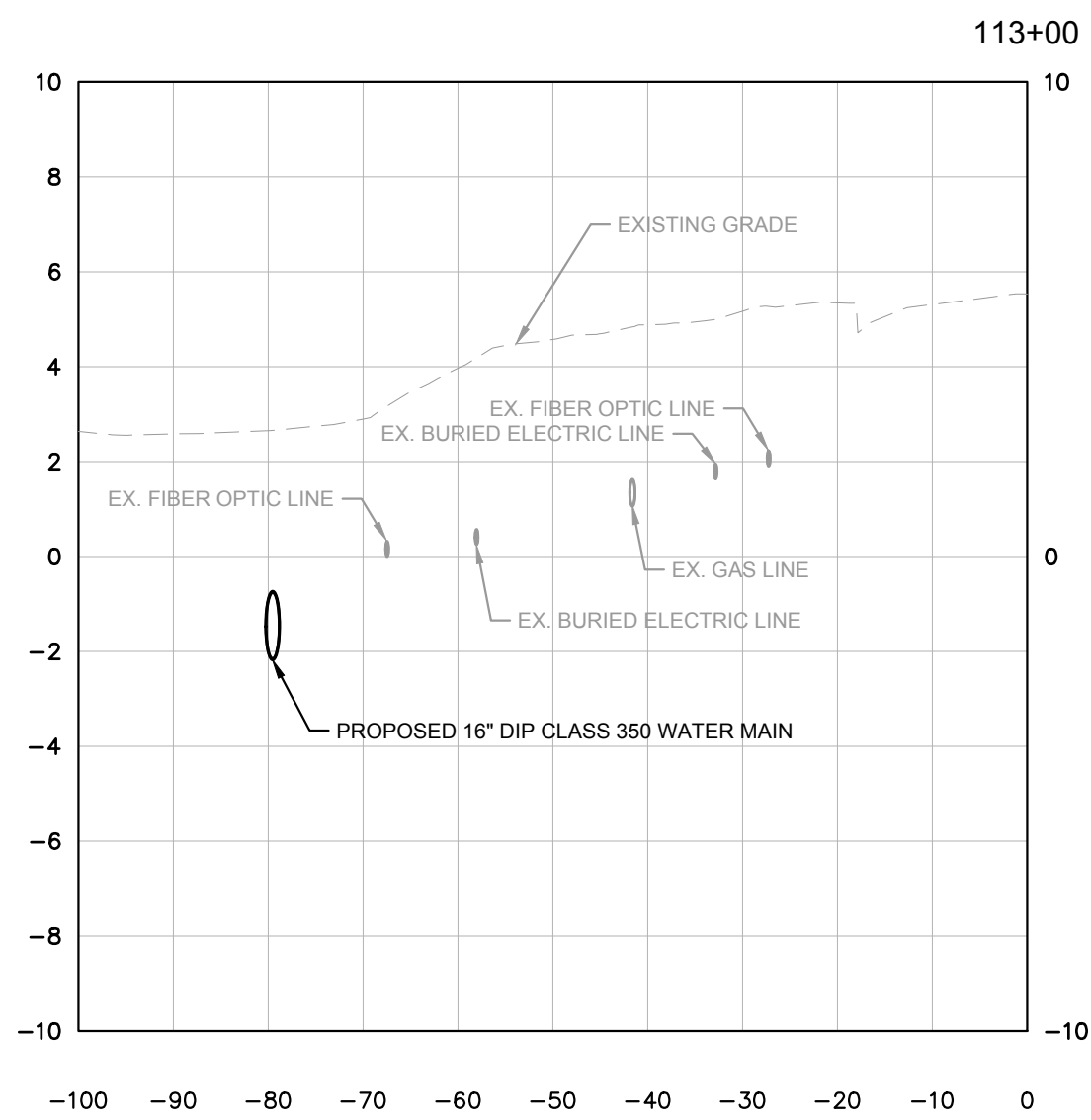
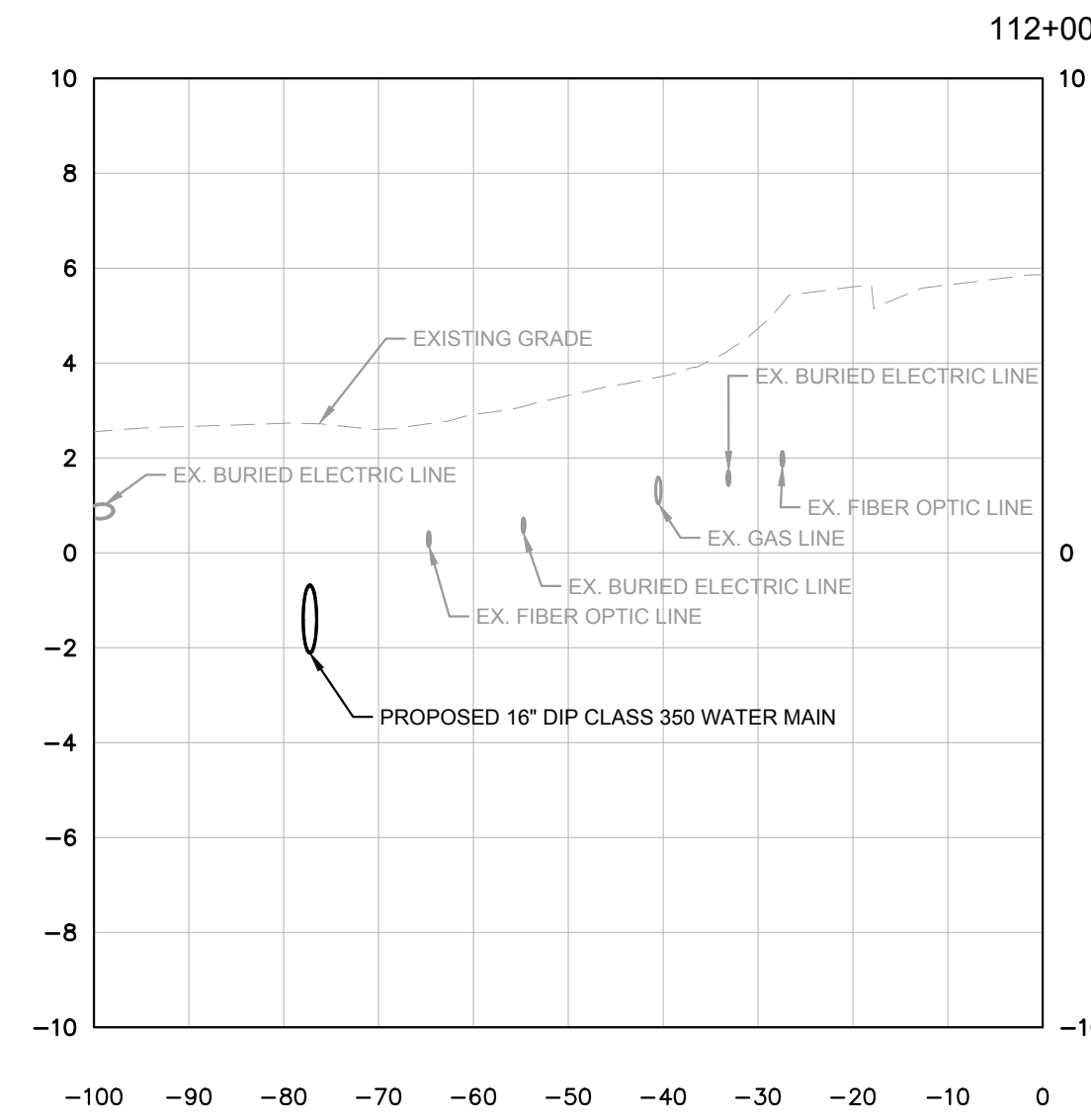
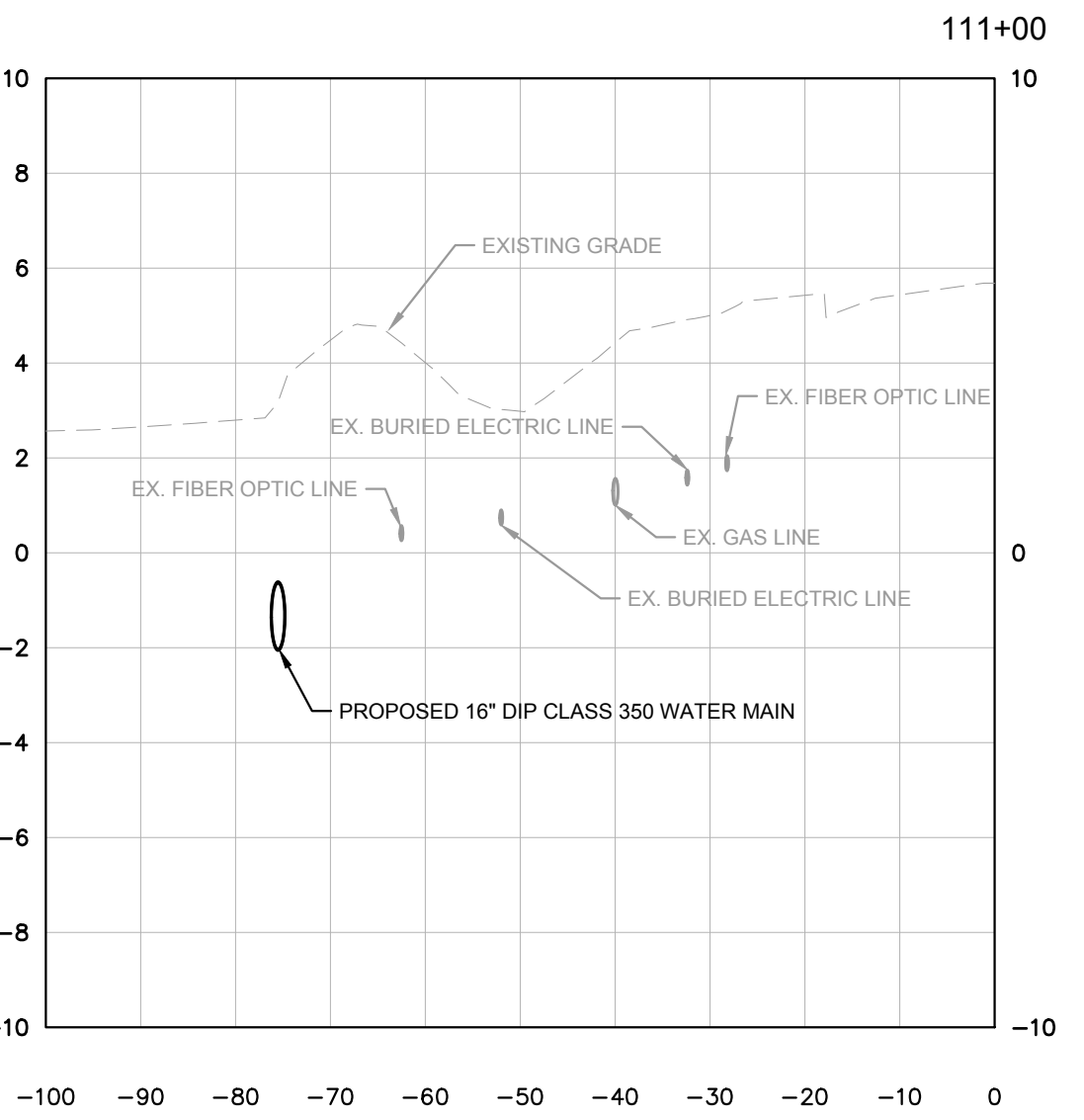
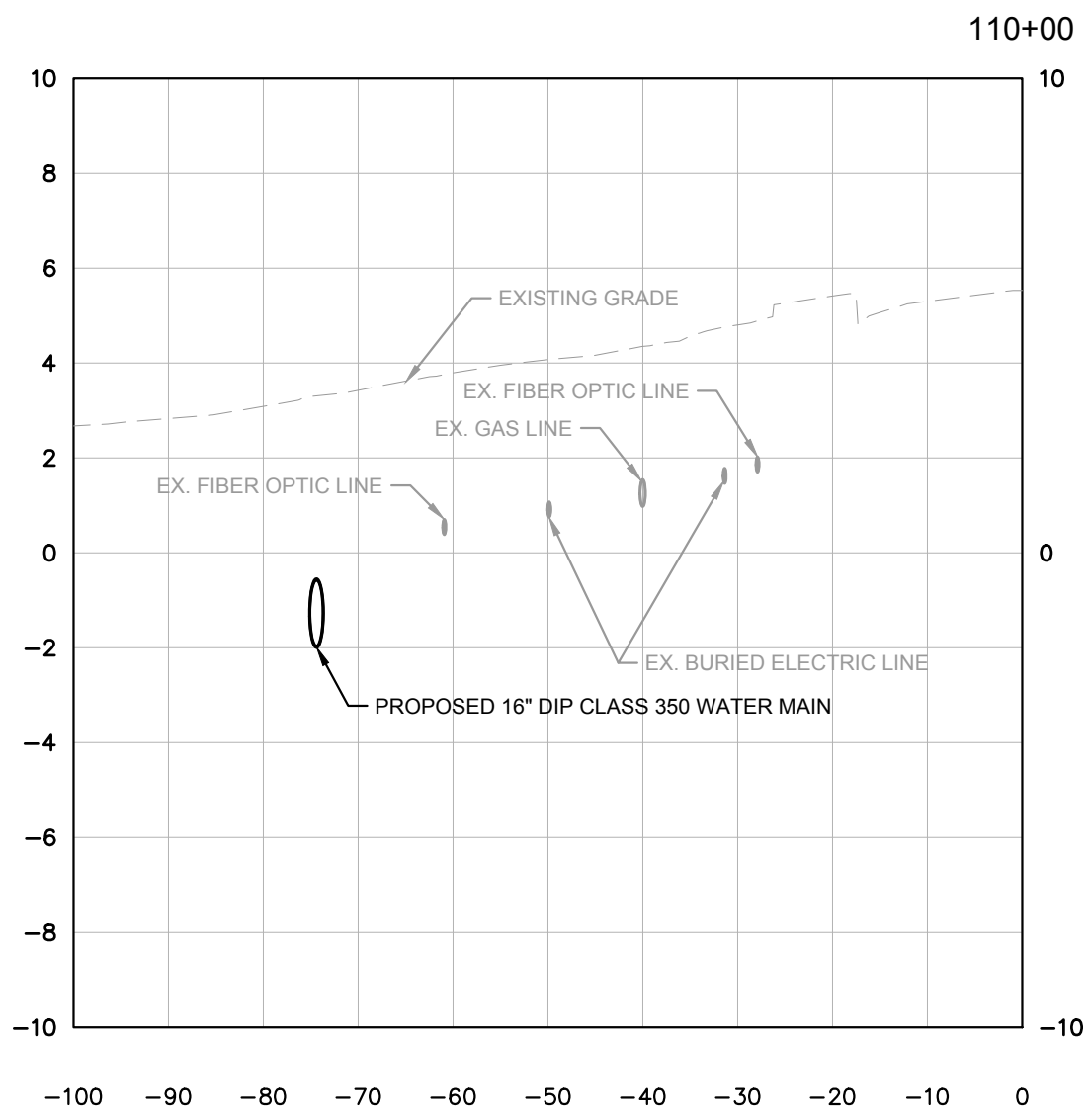
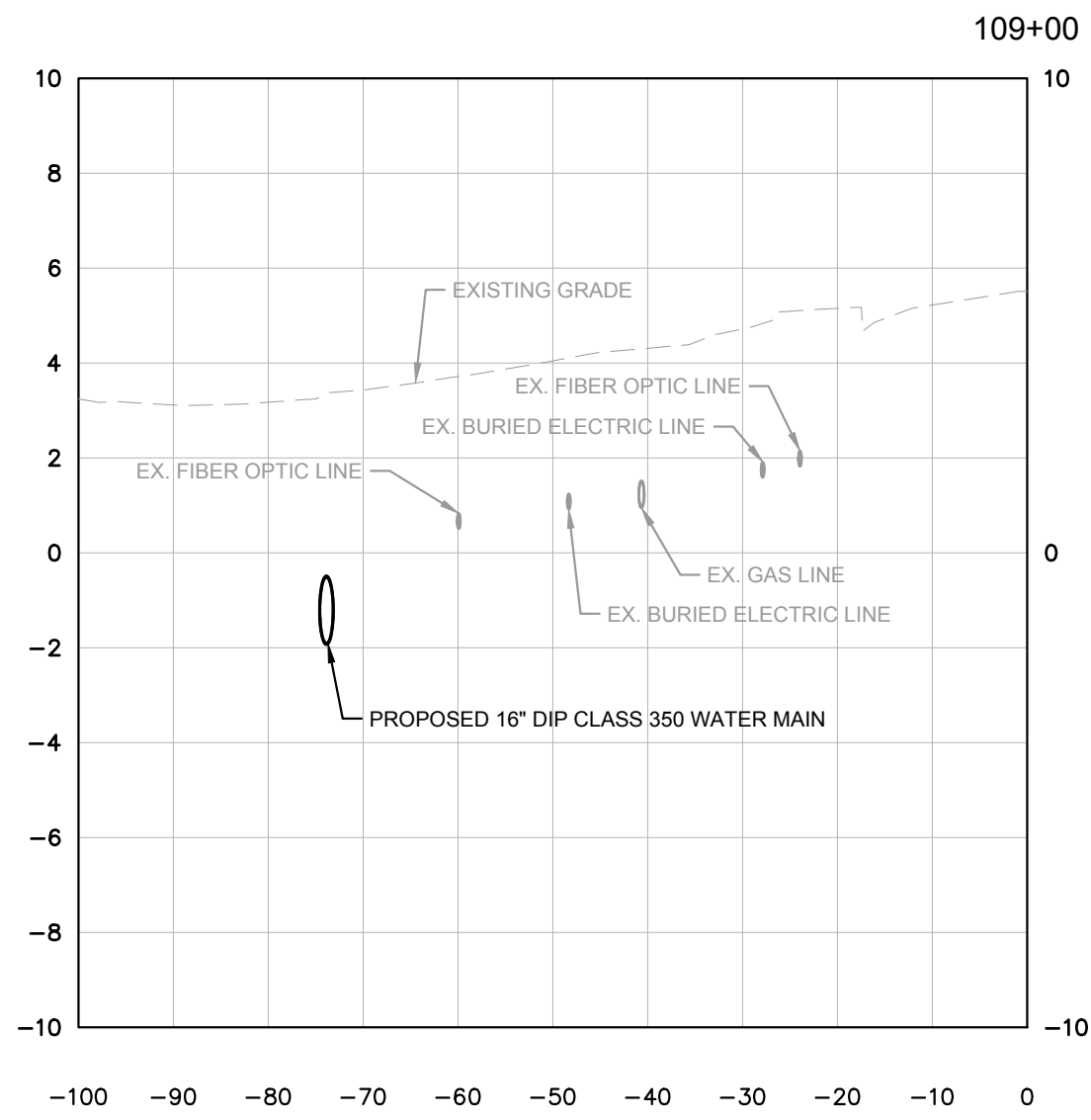
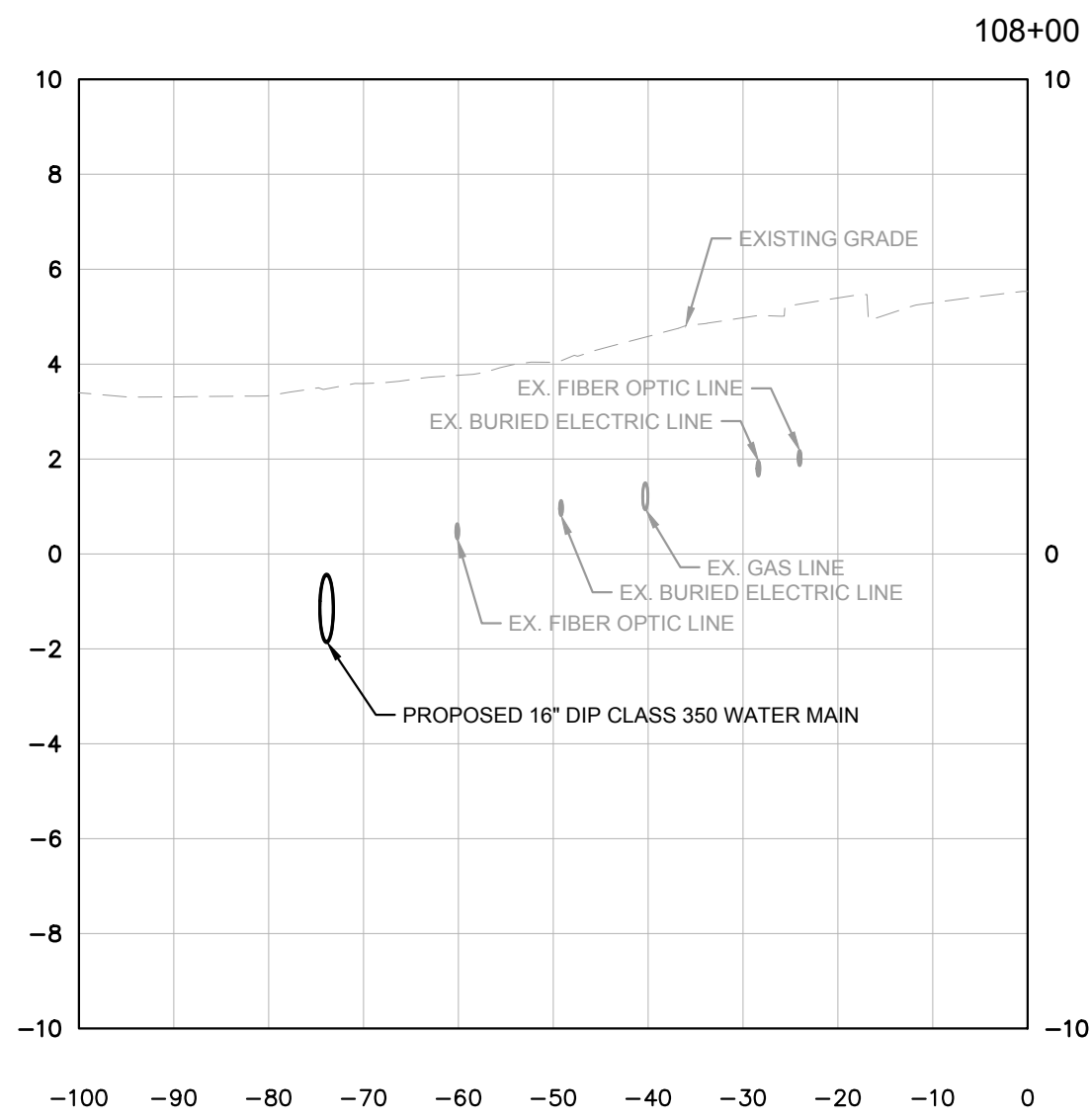
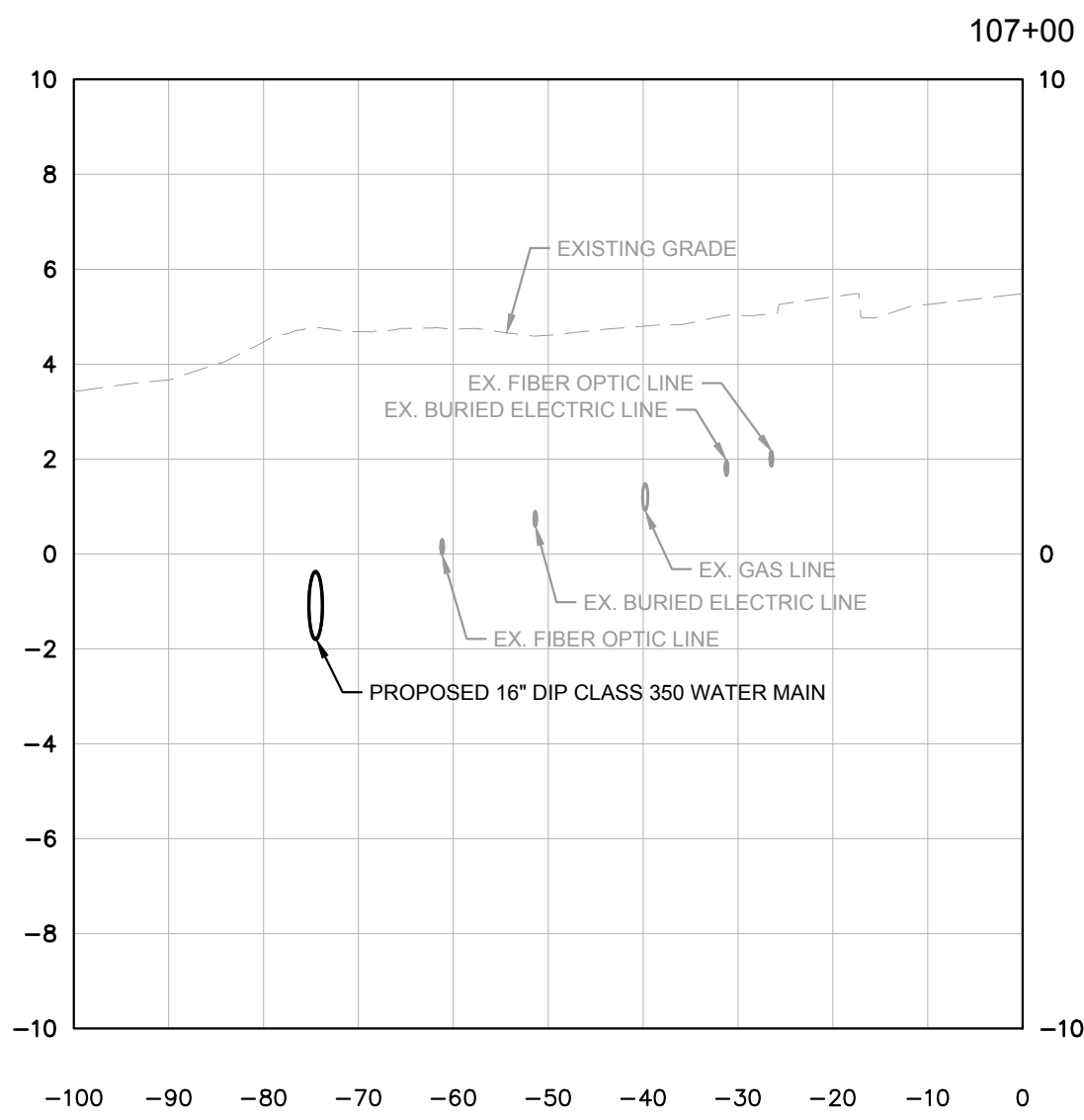
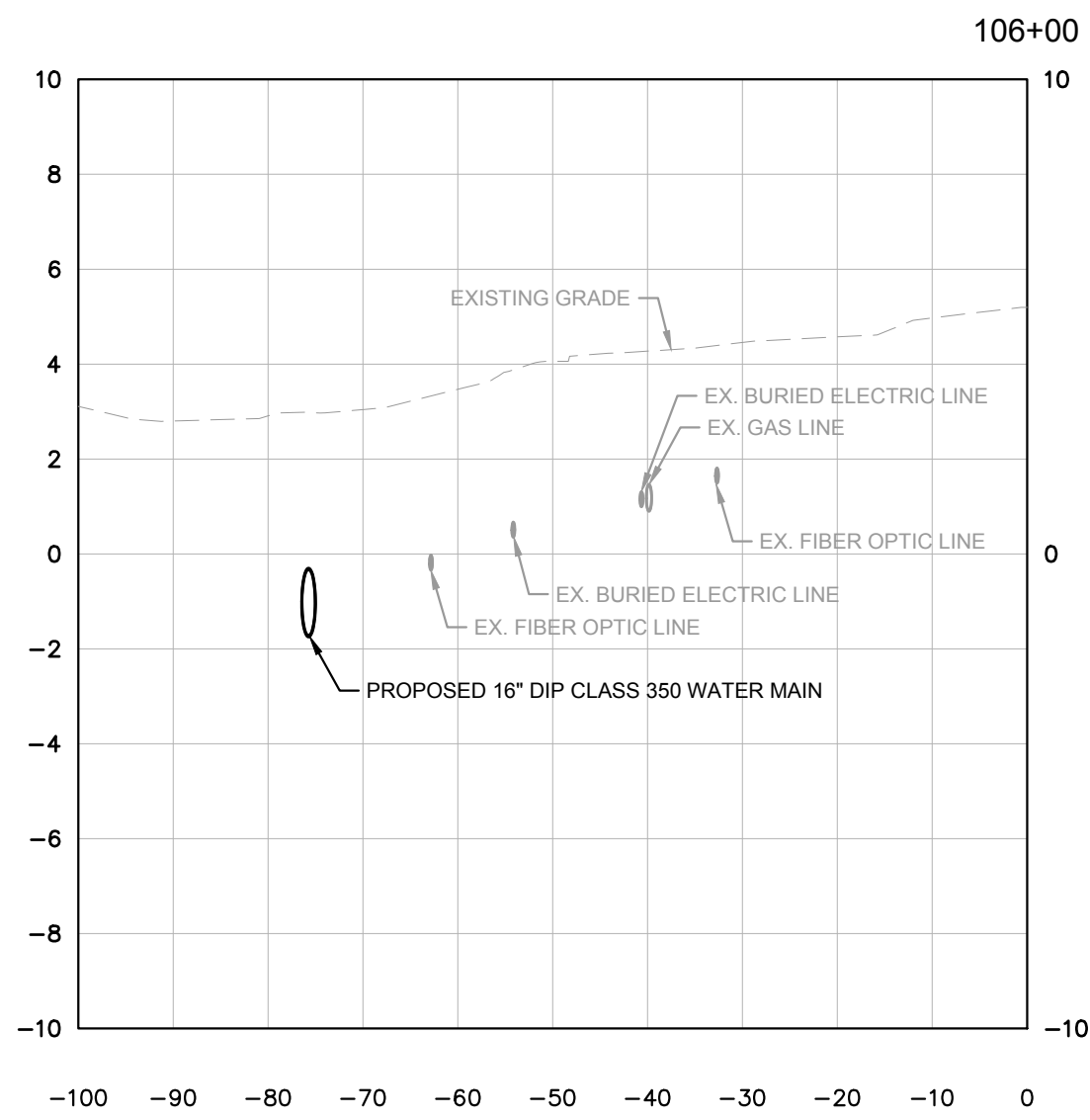
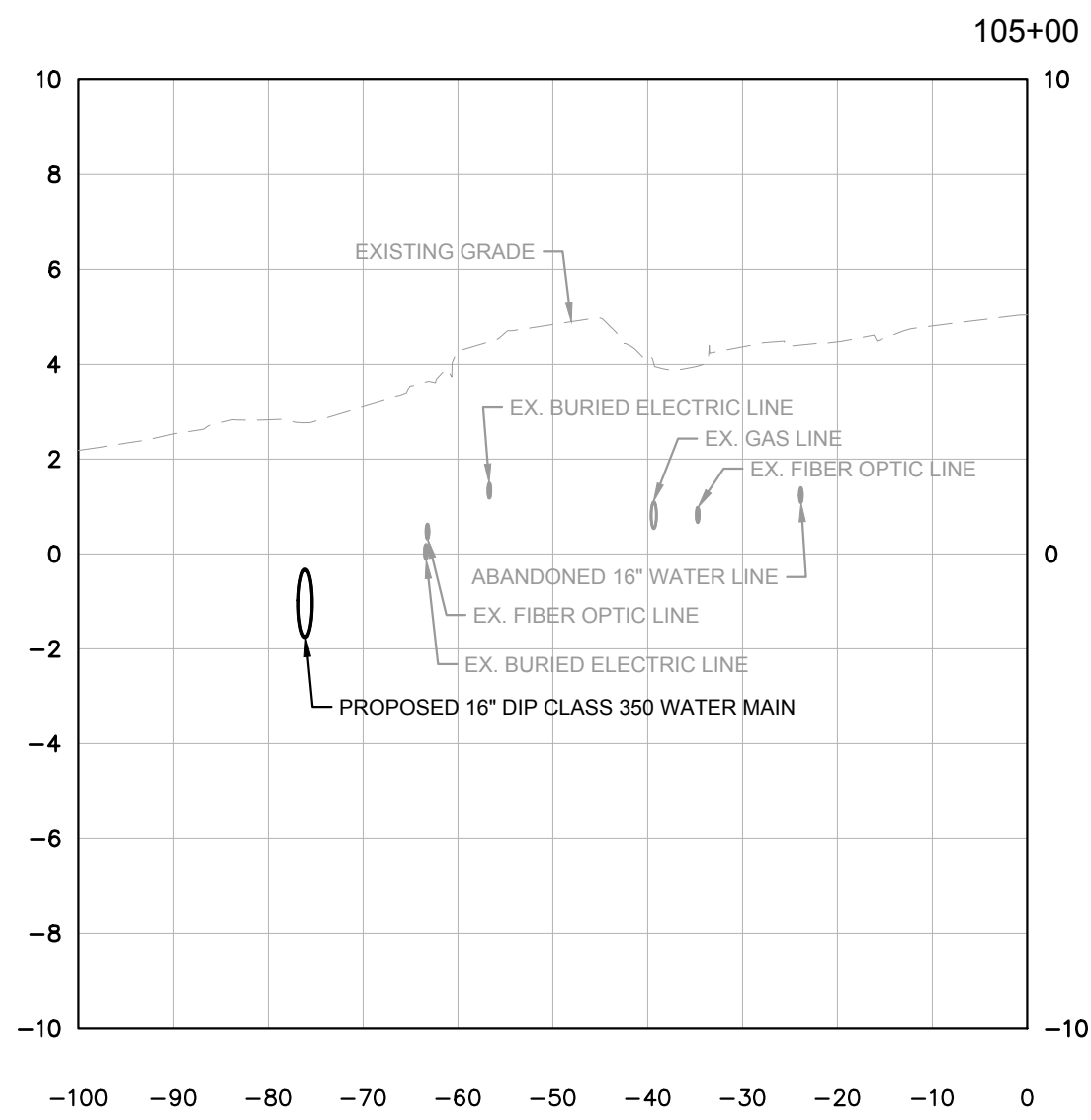
**STORM WATER POLLUTION
PREVENTION PLAN**

SHEET NUMBER

20

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400098
DATE AUGUST 2024
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY ALC
CHECKED BY KMS


**SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING**
MANATEE COUNTY

LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER 78652
FL DATE:

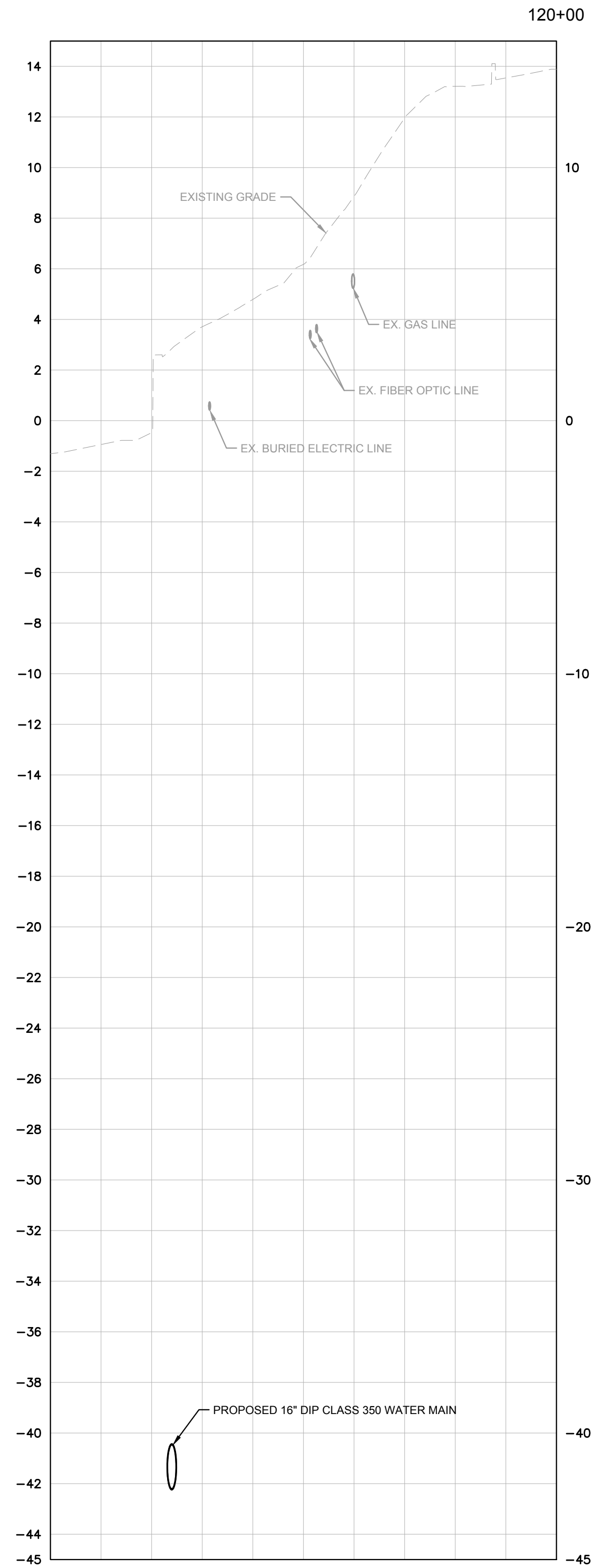
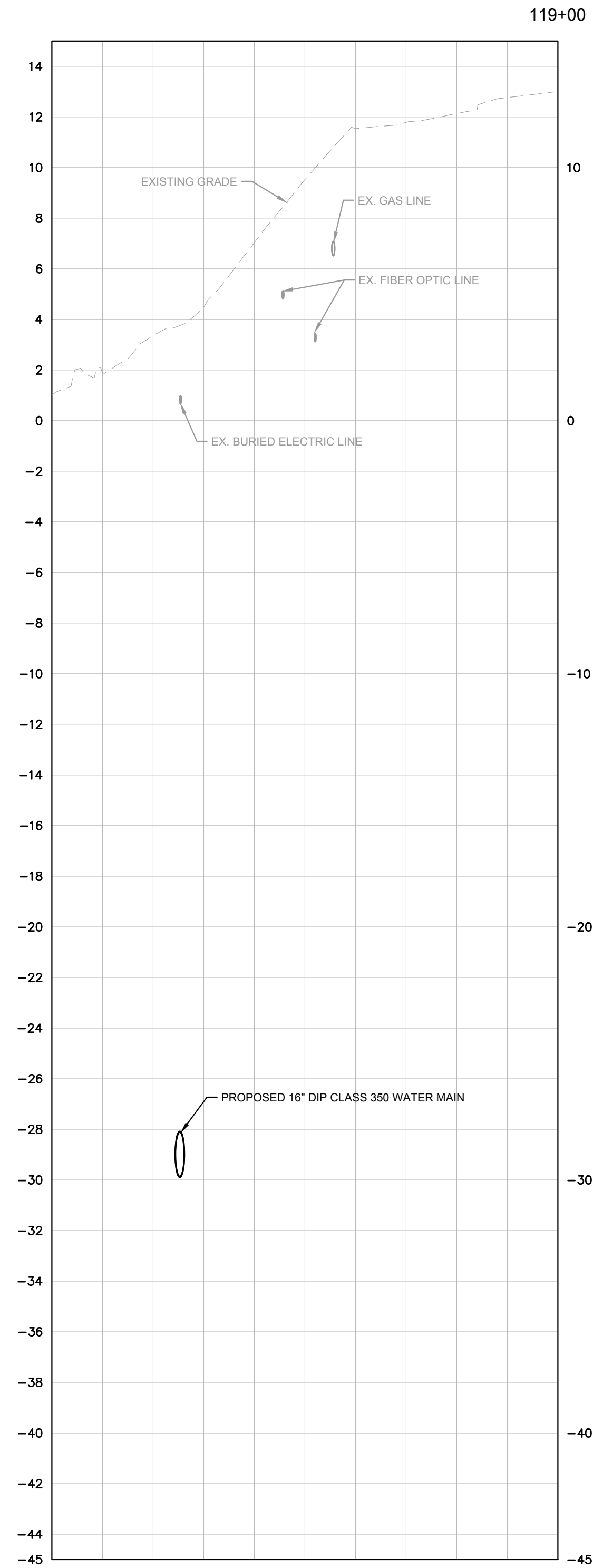
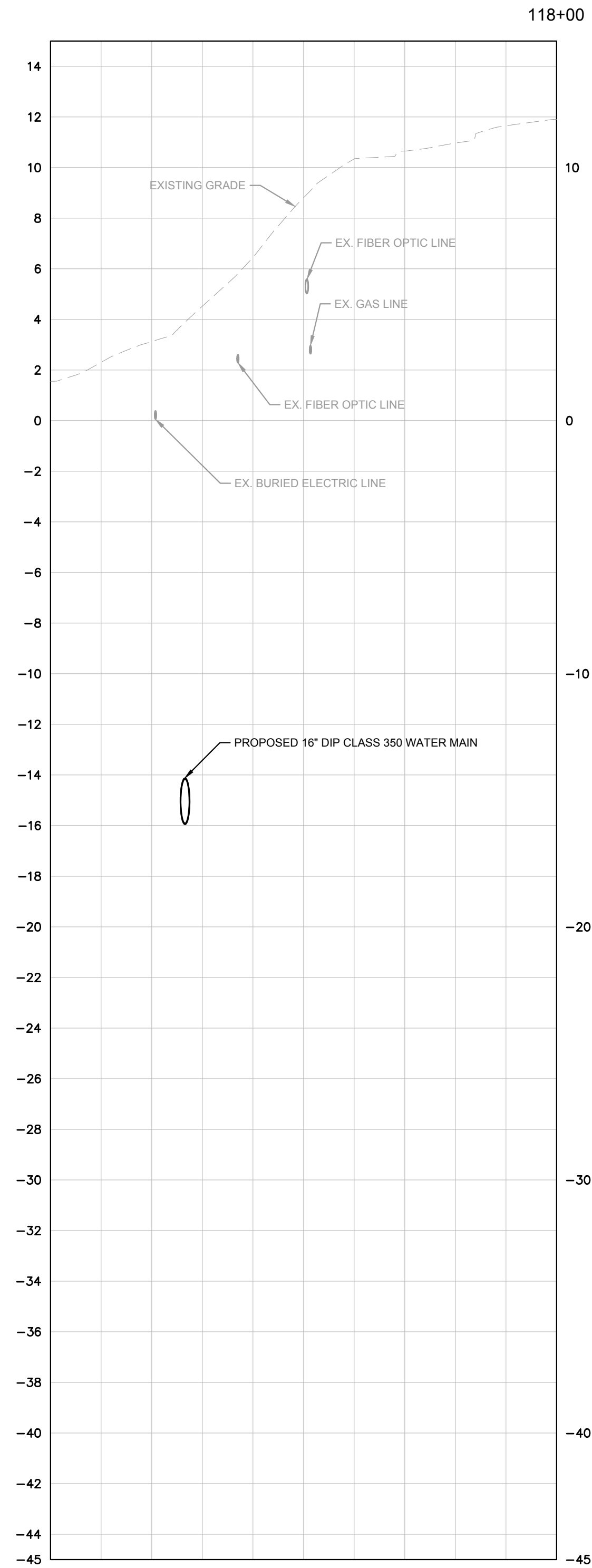
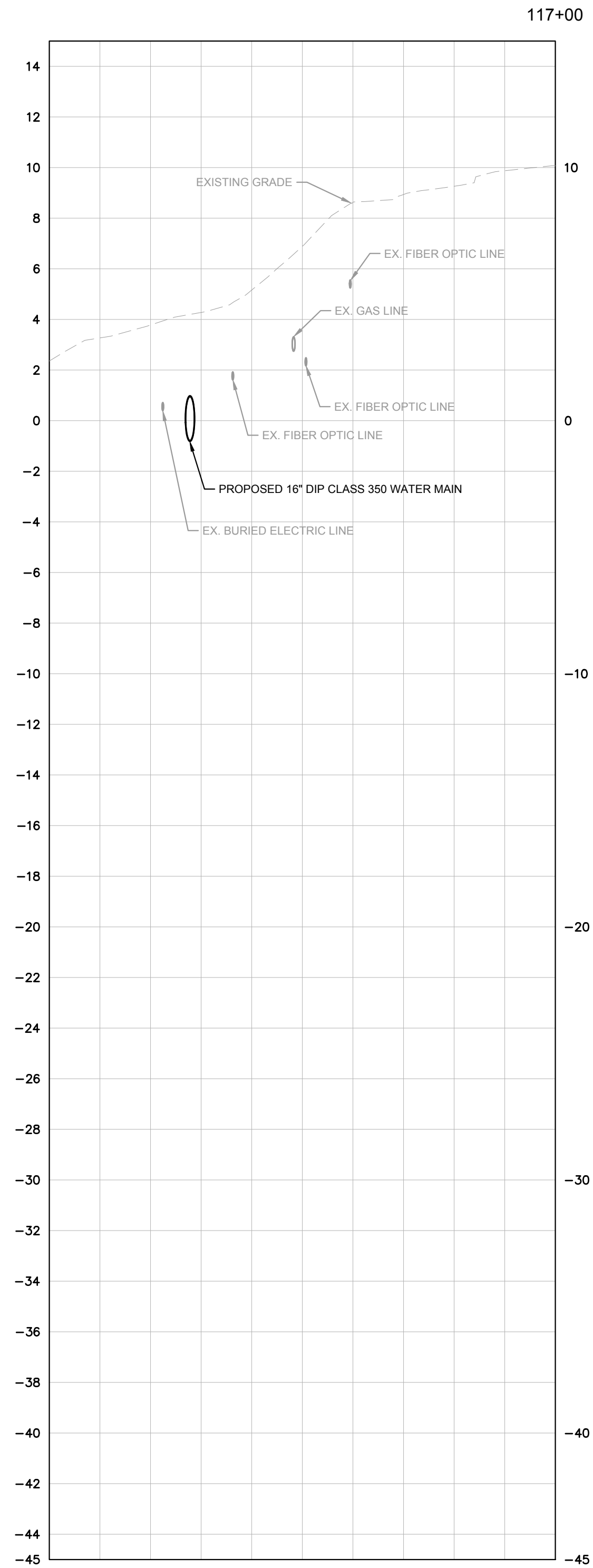
WEST SECTION VIEWS

SHEET NUMBER

21

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Curtis Vilt
11/12/2024

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MANATEE COUNTY

LICENSED PROFESSIONAL
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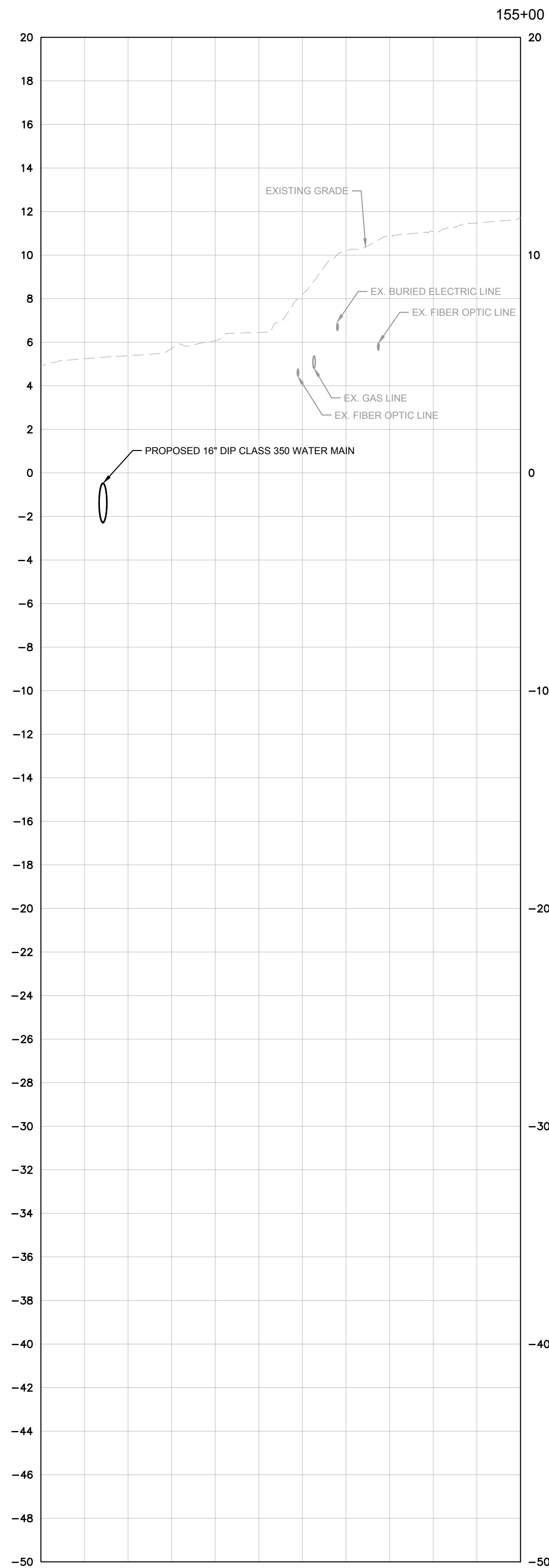
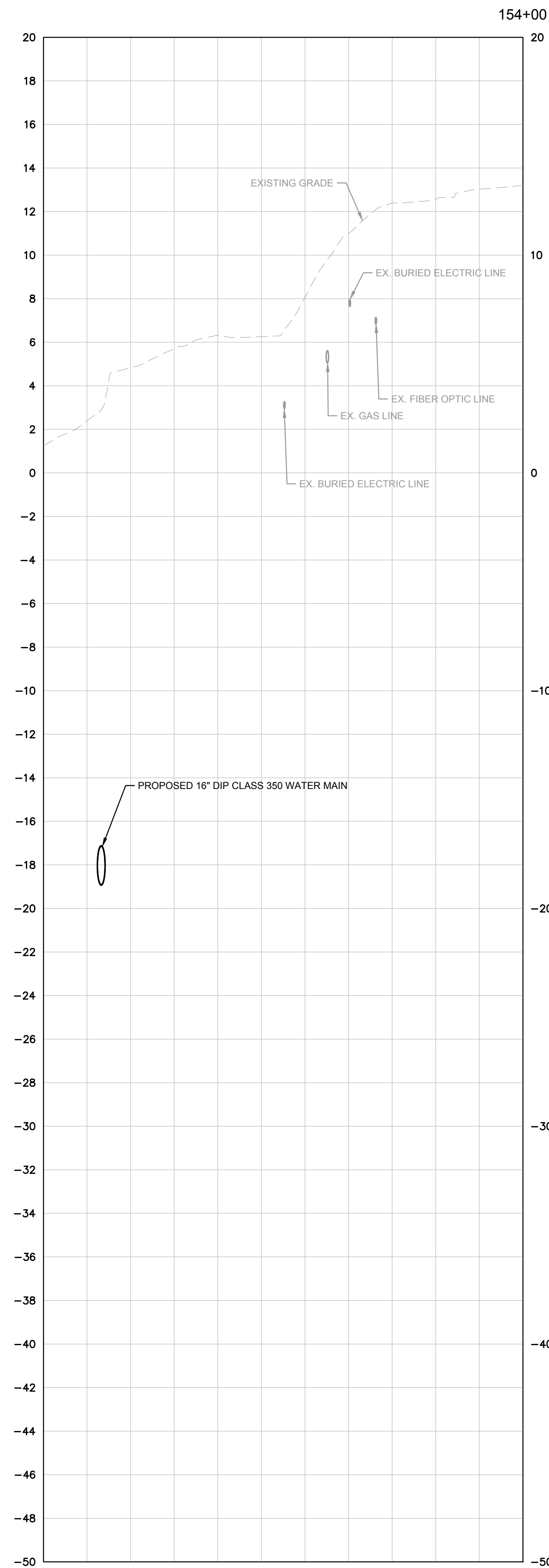
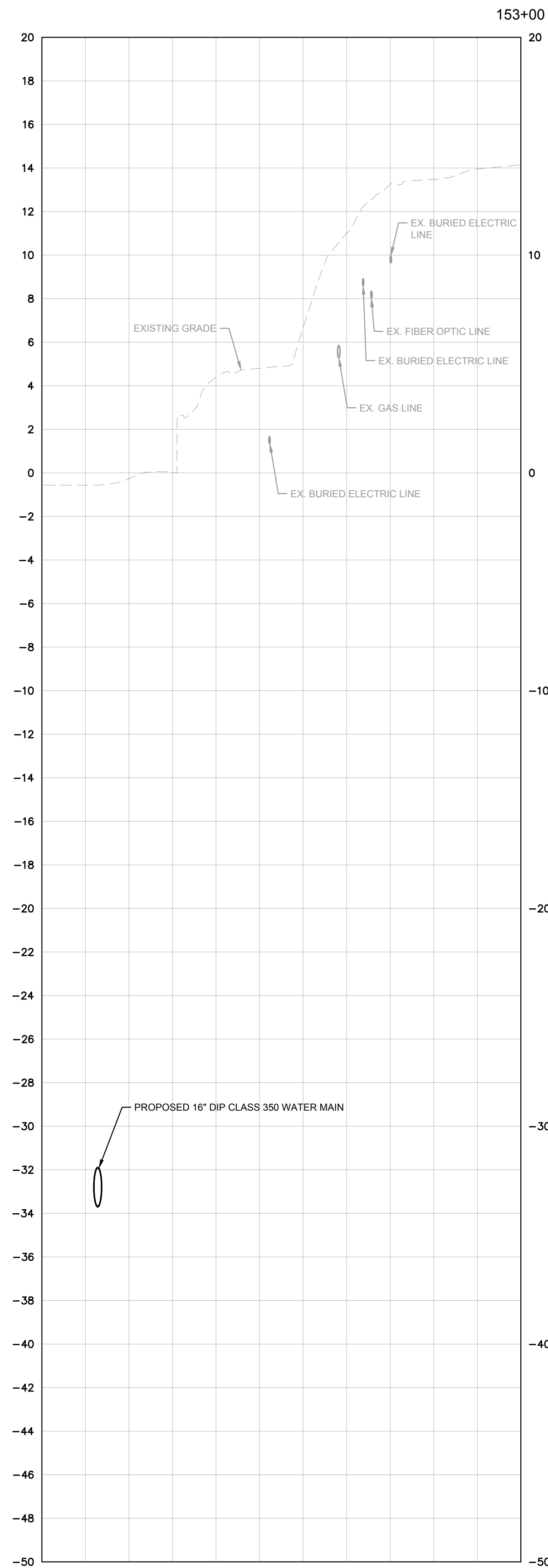
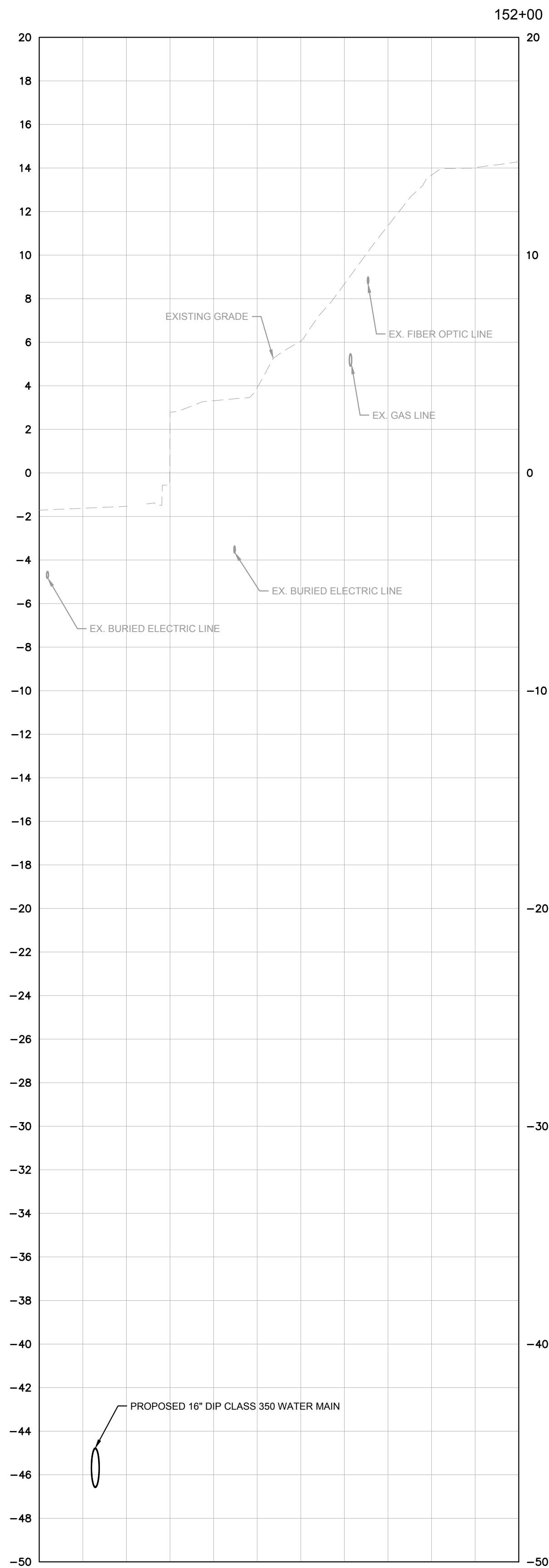
WEST SECTION VIEWS

SHEET NUMBER

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2024-H-194-00171
Curtis Vilt
11/12/2024

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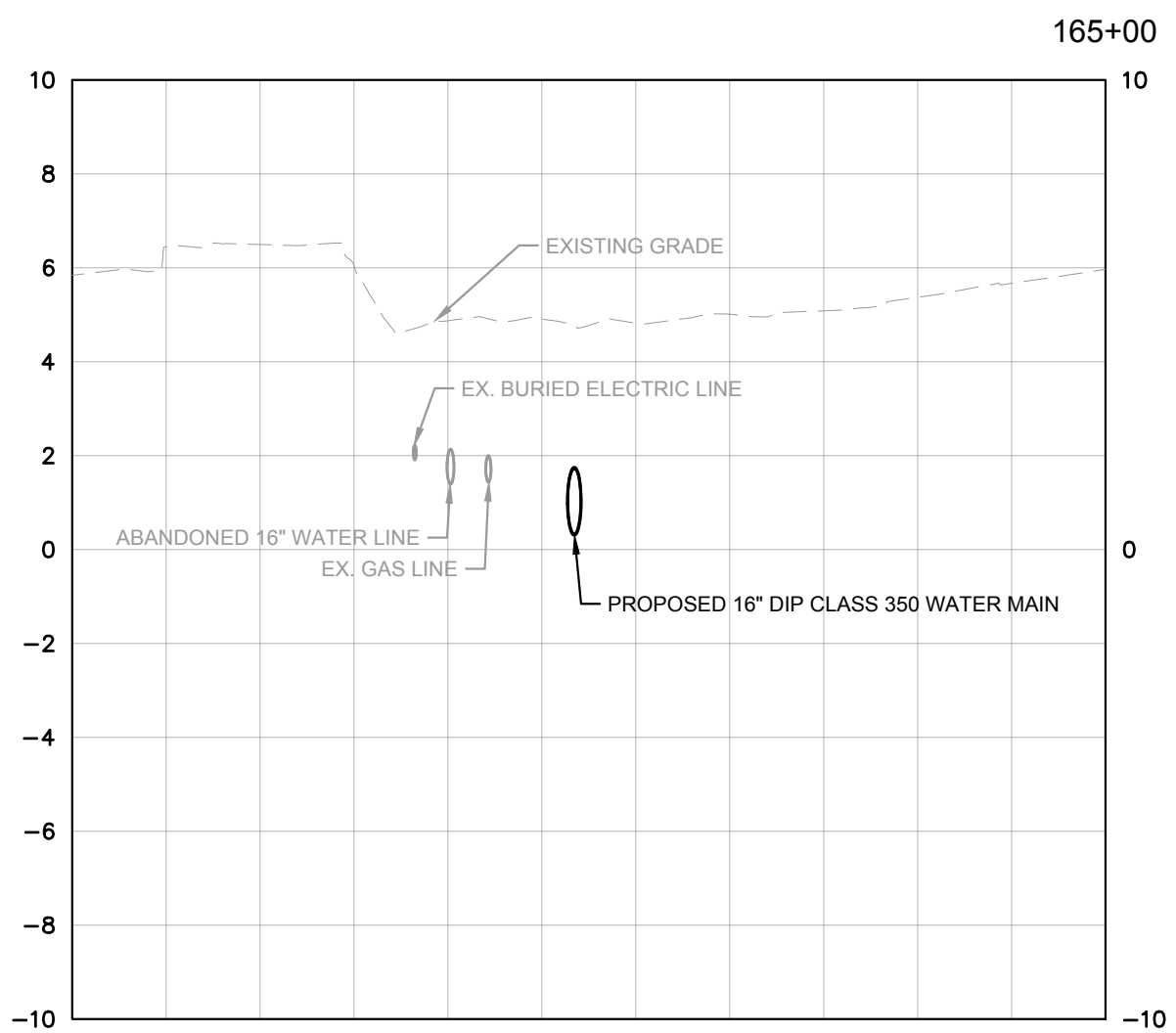
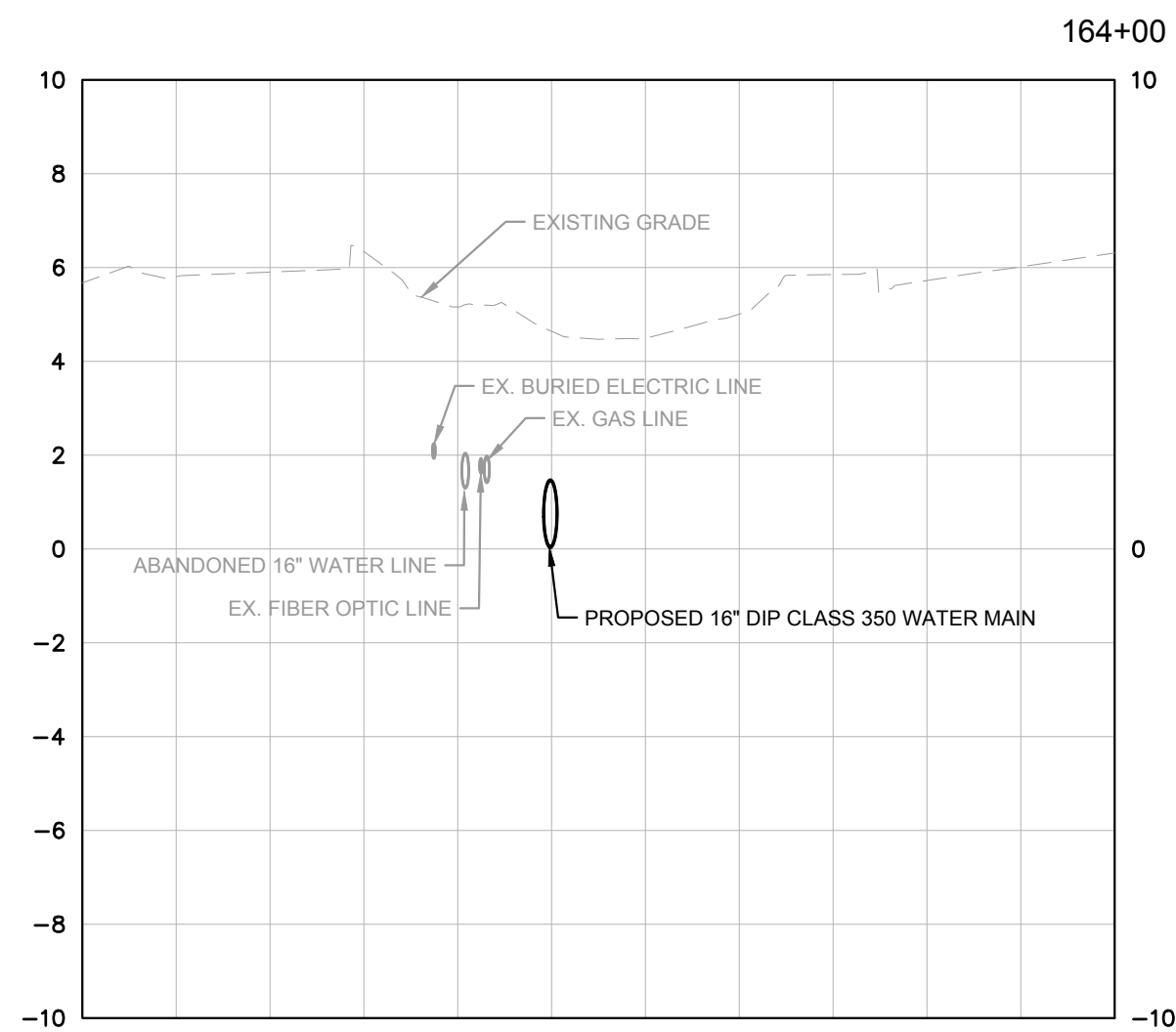
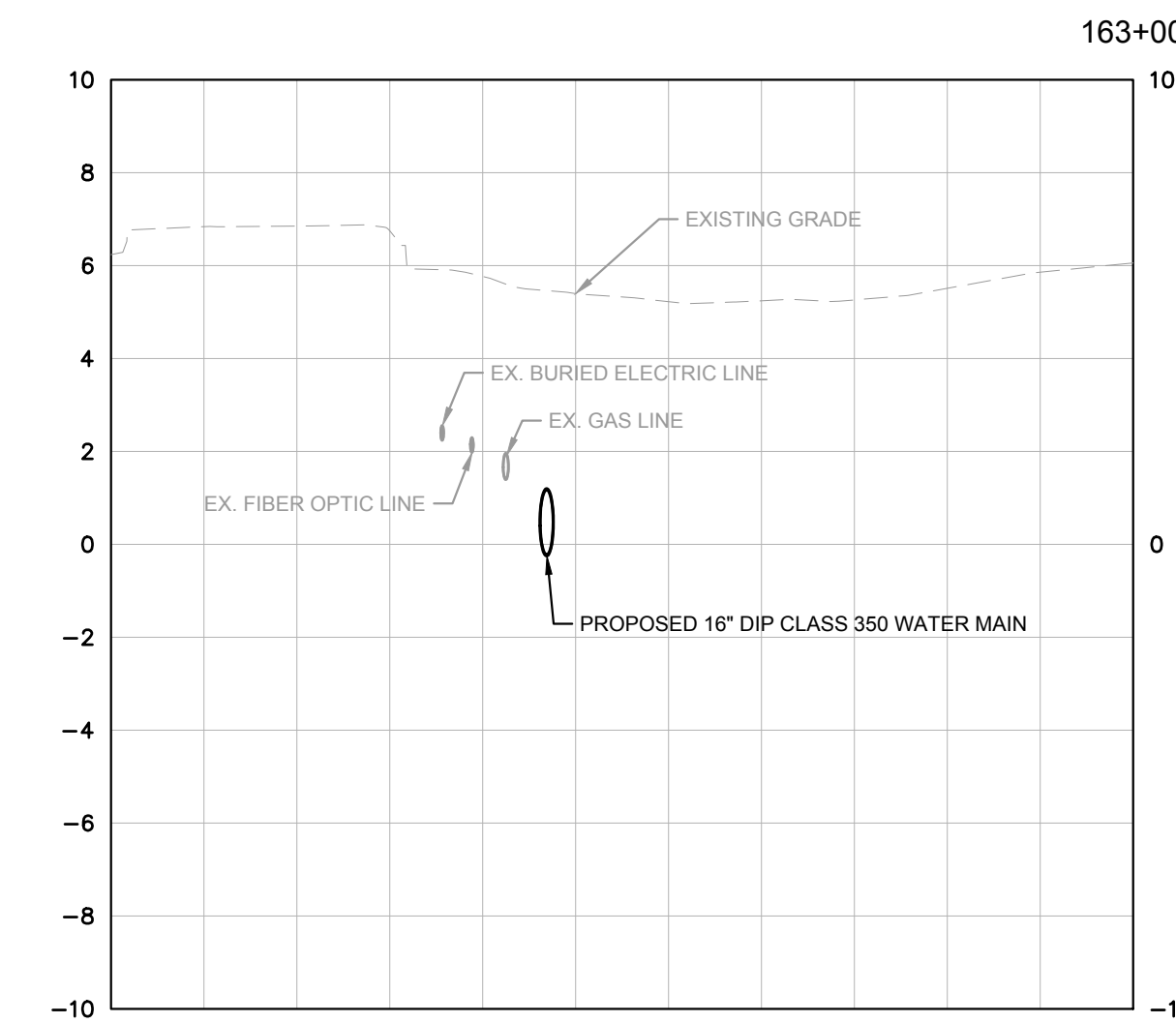
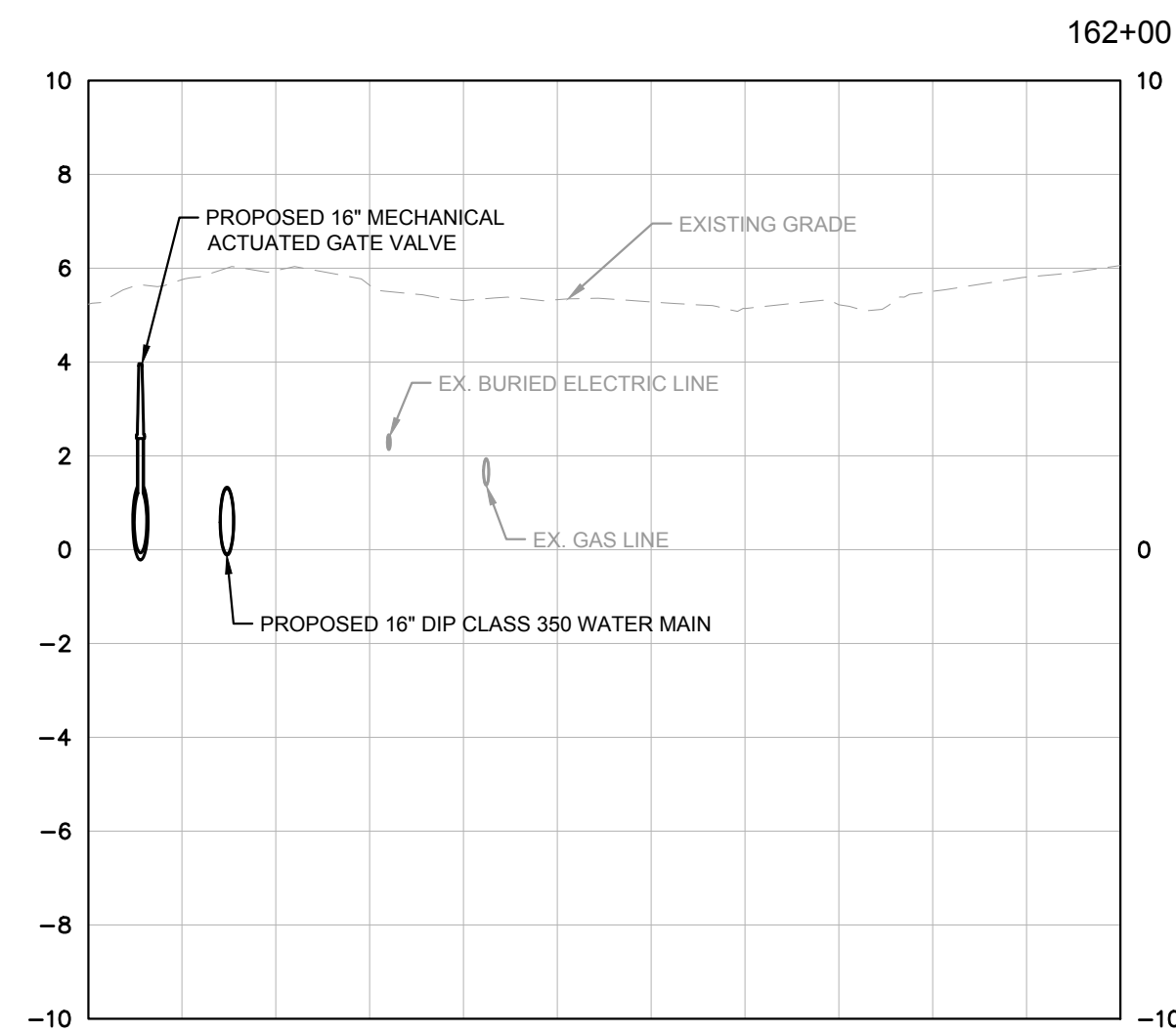
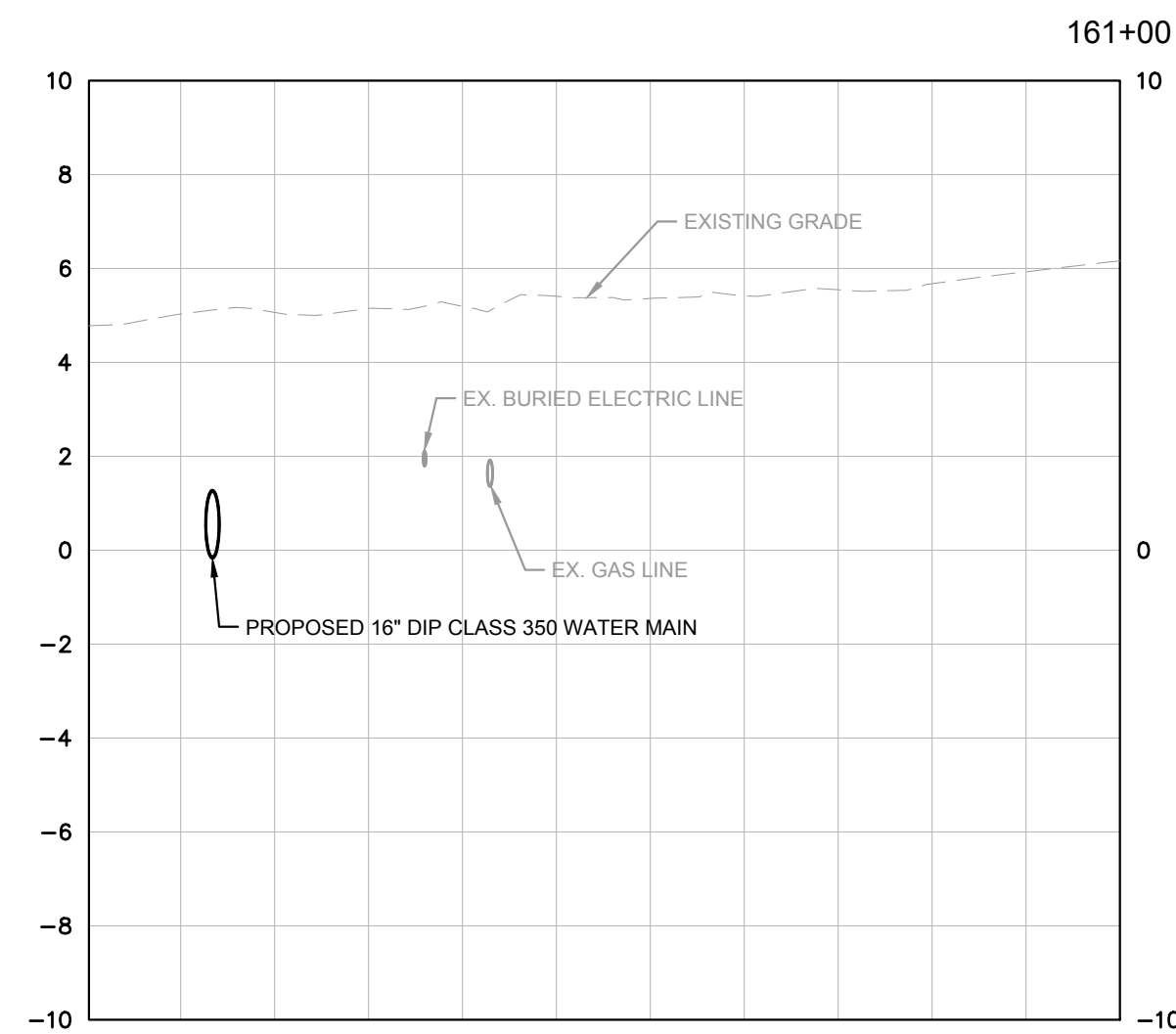
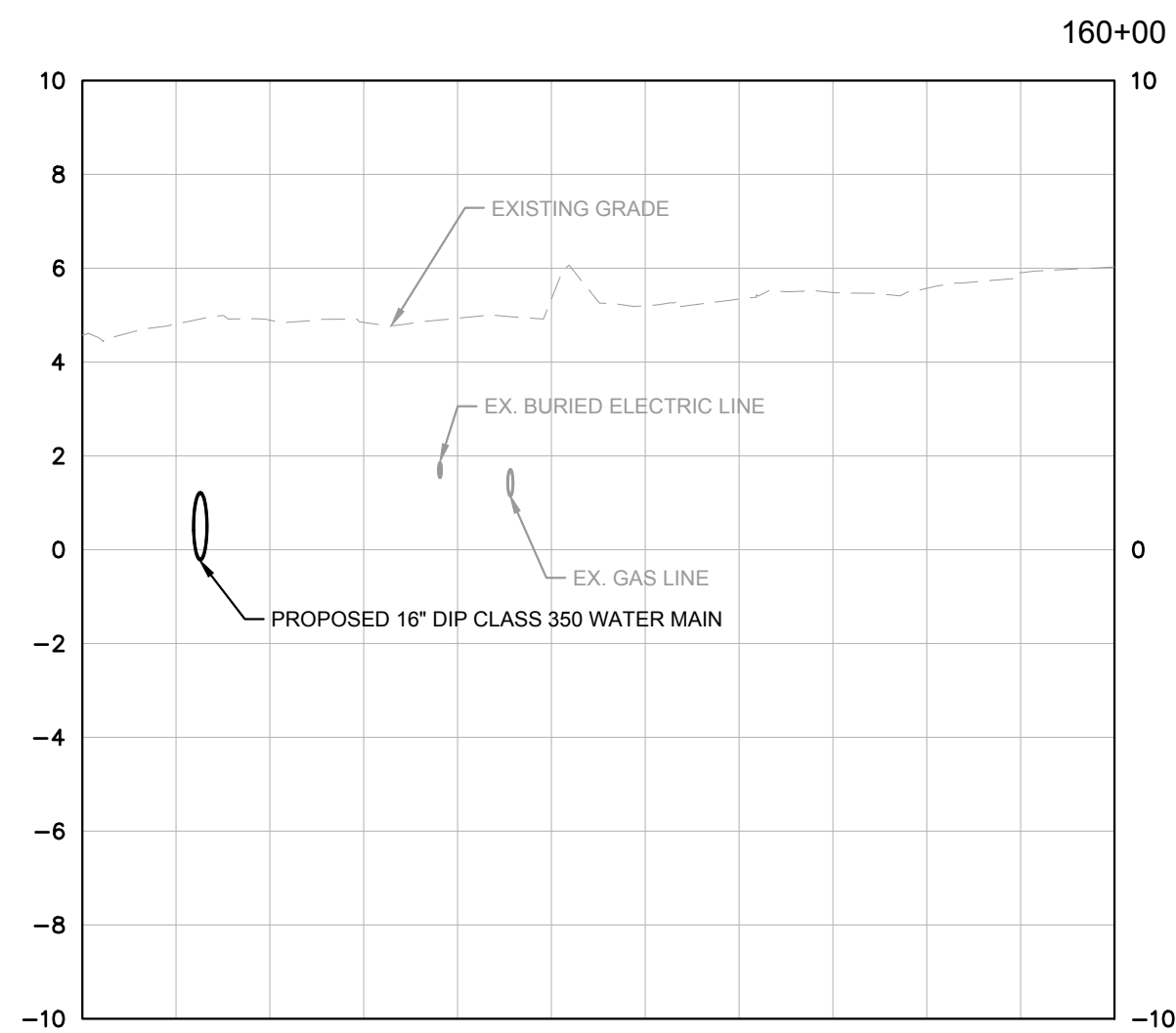
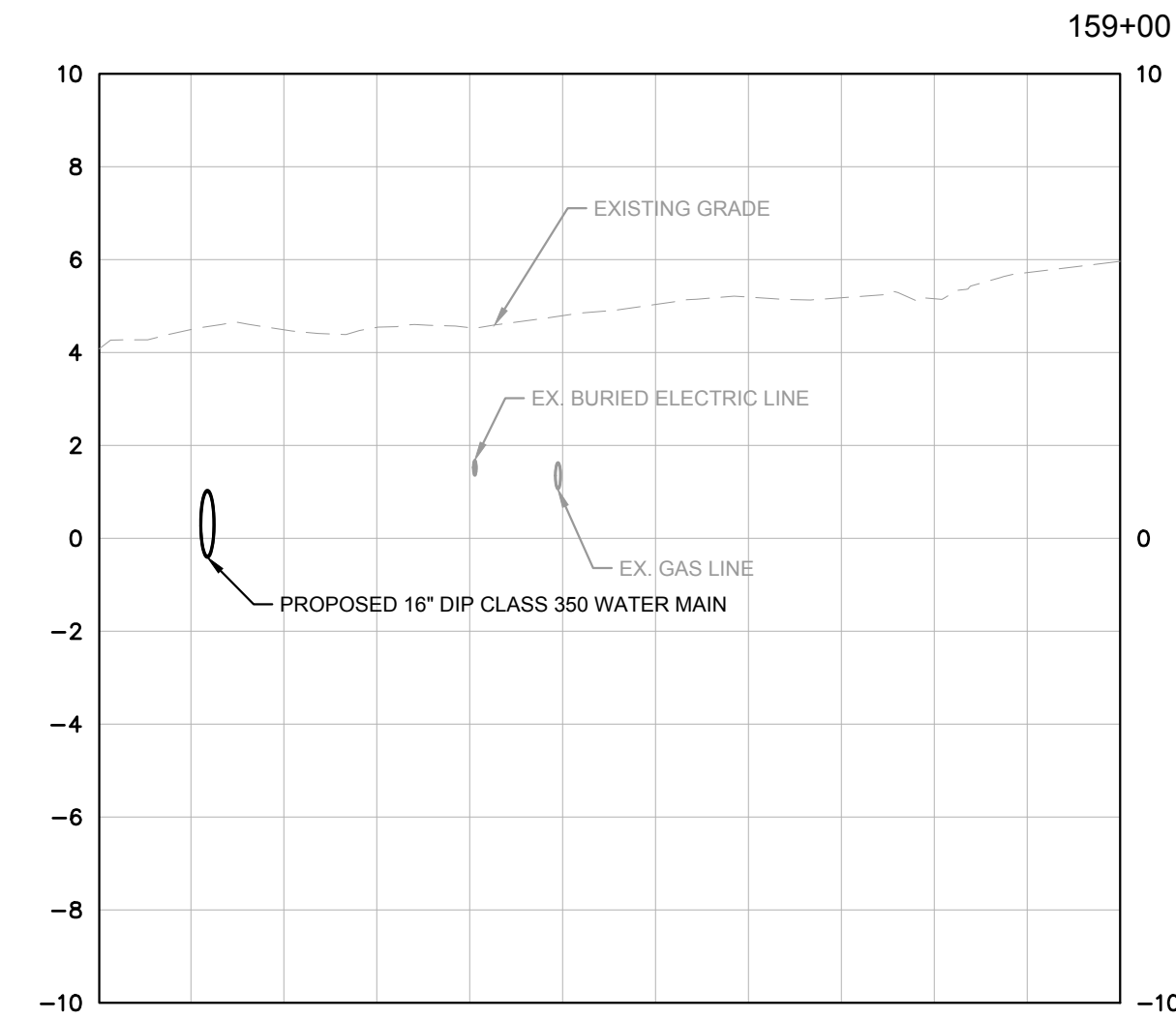
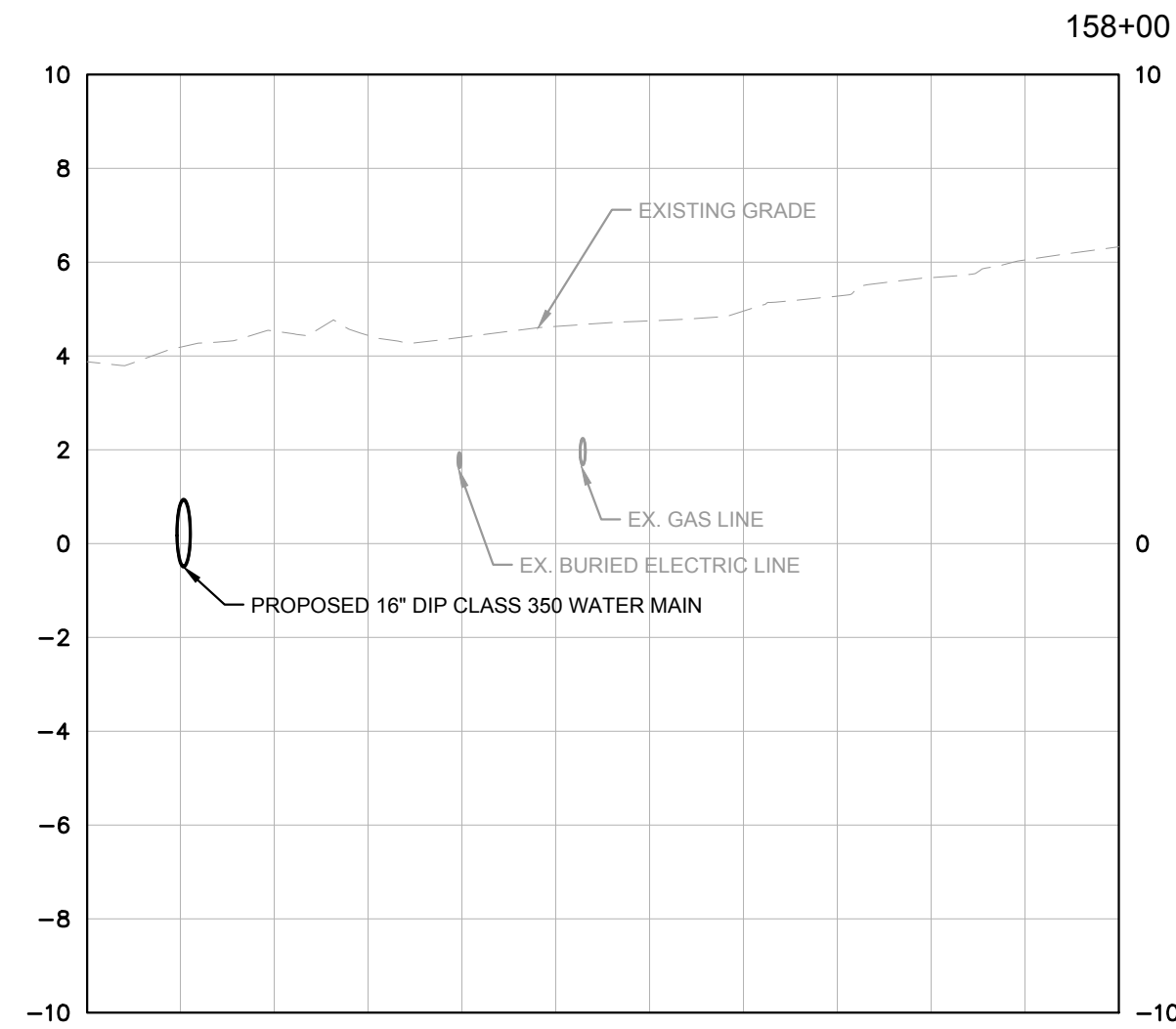
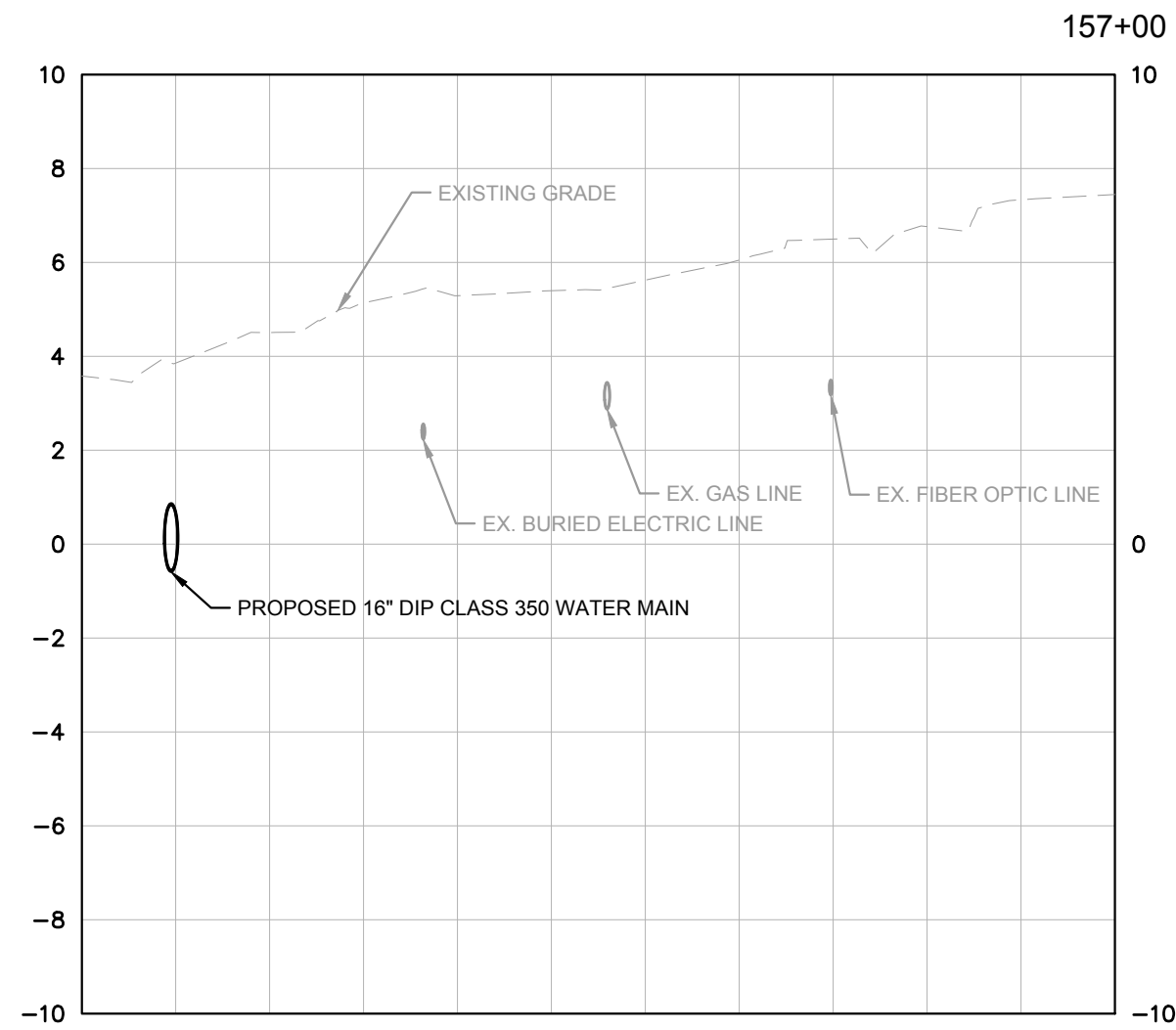
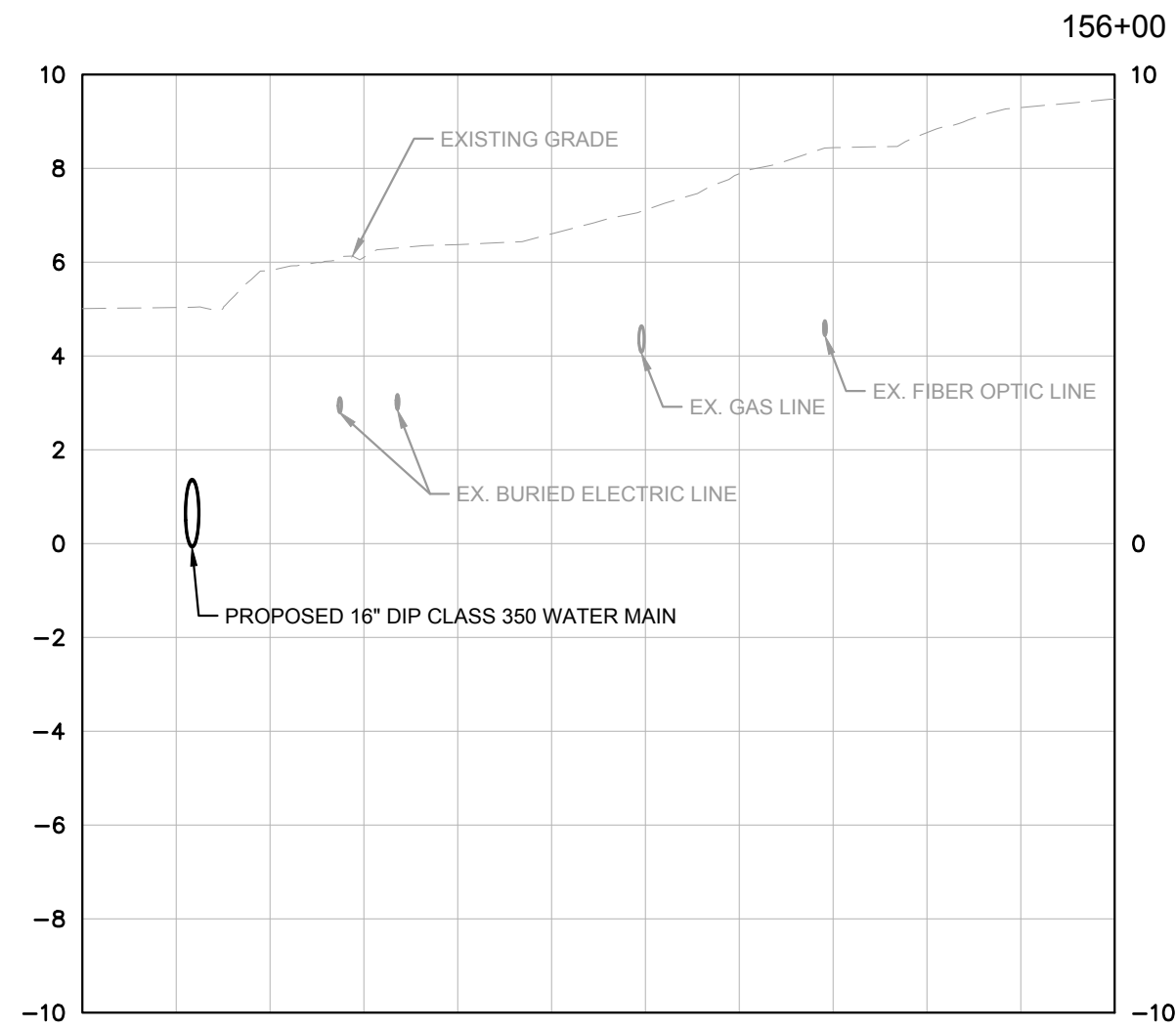
EAST SECTION VIEWS

SHEET NUMBER

23

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Curtis Vilt
11/12/2024

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No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400098
DATE AUGUST 2024
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY ALC
CHECKED BY KMS


**SR 64 (MANATEE AVENUE) WATER MAIN
INTRACOASTAL CROSSING**
MANATEE COUNTY

LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER 78652

EAST SECTION VIEWS

SHEET NUMBER

24

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024

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

REINFORCEMENT MAT SCHEDULE

FOR DIM. "B" BETWEEN 5.75' & 12.5' USE #4 @ 8" EACH WAY

FOR DIM. "B" LESS THAN 5.75' USE #3 @ 8" EACH WAY

NOTES:

1. ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.

2. THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSF. CONCRETE STRENGTH f_c =3000 PSI, REINFORCEMENT f_y =60,000 PSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.

3. FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.

4. RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE, HOWEVER, WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE CALLED OUT/ILLUSTRATED IN THE DETAILS, BOTH SHALL BE INSTALLED.

90° BEND

45° BEND

22.5° BEND

11.25° BEND

TEE OR DEAD END

45° WYE

MANATEE COUNTY

PUBLIC WORKS DEPARTMENT

REV. BY DATE

SEPT 12, 2023

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CONCRETE THRUST BLOCKS

UG-7

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)									
MAIN PIPE SIZE	HORIZ. BENDS		TEES		REDUCERS		PLUGS & VALVES		
	90°	45°	22.5°	SIZE	SIZE	SIZE	SIZE	SIZE	
36	142	59	28	X36	X30	X24	X18	X12	453
30	124	51	25	X30	X24	X18	X12	X8	391
24	106	44	21	X24	X18	X12	X8	X6	327
20	92	38	18	X20	X16	X12	X8	X6	280
16	77	32	15	X16	X12	X8	X6	X4	231
12	61	25	12	X12	X8	X6	X4	X3	181
10	52	22	10	X10	X8	X6	X4	X3	153
8	44	18	9	X8	X6	X4	X3	X2	128
6	34	14	7	X6	X4	X3	X2	X1	98
4	24	10	5	X4	X3	X2	X1	X1	69

NOTE:

1. SEE UG-8, RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 10 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.

MANATEE COUNTY

PUBLIC WORKS DEPARTMENT

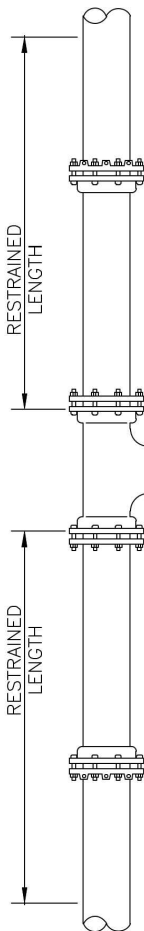
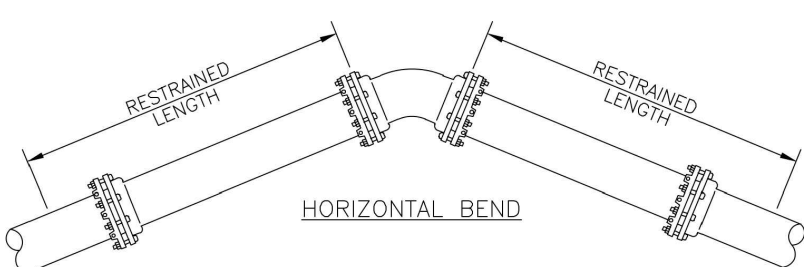
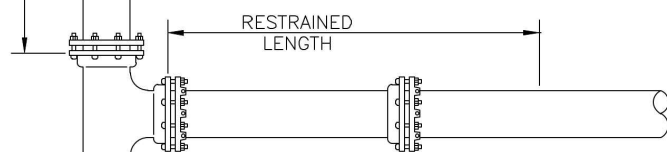
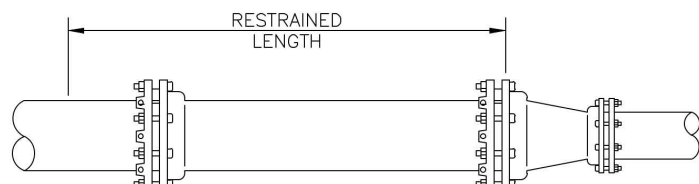
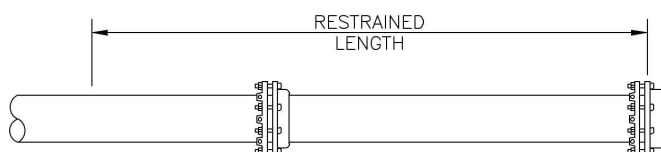
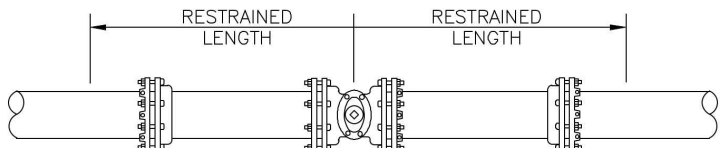
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RESTRAINED LENGTHS FOR DIP

UG-9

	 <p>HORIZONTAL BEND</p>		
 <p>TEE</p>	 <p>REDUCER</p>		
 <p>CAP OR PLUG</p>	 <p>ISOLATION VALVE</p>		
<p><u>NOTE:</u></p> <p>1. SEE DETAIL UG-8 RESTRAINED LENGTHS FOR PVC PIPE FOR NOTES 1 THROUGH 10 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR PIPE.</p>			
<p>MANATEE COUNTY PUBLIC WORKS DEPARTMENT</p>		<p>RESTRAINED LENGTHS FOR PIPE</p>	<p>UG-10</p>
REV. BY	DATE		
<p>SEPT 12, 2023</p> <p>DATE OF APPROVAL</p>			

	<div><div>MANATEE COUNTY</div><div>PUBLIC WORKS DEPARTMENT</div><div>REV. BY DATE</div><div>SEPT 12, 2023</div><div>DATE OF APPROVAL</div><div>TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING</div><div>UG-14</div></div>
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<div><div>NOTES:</div><div>1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.</div><div>2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.</div><div>3. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.</div><div>4. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.</div></div> <div></div> <div><div>MANATEE COUNTY</div><div>PUBLIC WORKS DEPARTMENT</div><div>REV. BY DATE</div><div>SEPT 12, 2023</div><div>DATE OF APPROVAL</div><div>TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING</div><div>UG-11</div></div>
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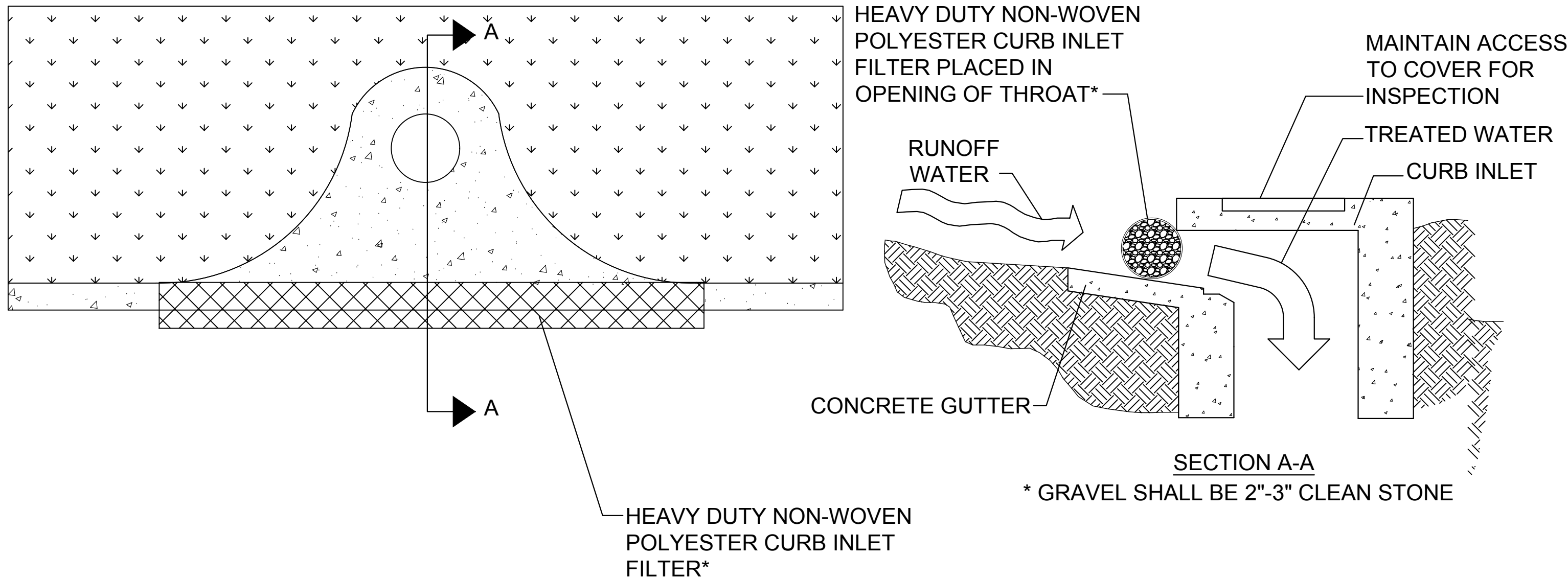
<div><div>NOTES:</div><div>1. BITUMINOUS PAVEMENT SHALL BE REMOVED IN CLEAN STRAIGHT LINES BY SAW CUTTING. WHERE BITUMINOUS PAVEMENT ADJACENT TO THE TRENCH SHALL BE TRIMMED TO A NEAT STRAIGHT LINE BEFORE RESURFACING TO ENSURE THAT ALL AREAS TO BE RESURFACED ARE ACCESSIBLE TO ROLLERS OR TAMPERS USED TO COMPACT THE SUB-GRADE OR PAVING MATERIALS.</div><div>2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.</div><div>3. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.</div><div>4. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1-1/4 INCH S-I, WHICHEVER IS GREATER.</div><div>5. MILL 25' BACK FROM TRENCH CROSSING SAW CUTS. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.</div><div>6. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.</div><div>7. NEW BASE SHALL MATCH EXISTING, OR BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150, WHICHEVER IS GREATER.</div><div>8. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.</div><div>9. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.</div><div>10. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.</div><div>11. NOTES 5 THRU 10 ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.</div></div> <div></div> <div><div>MANATEE COUNTY</div><div>PUBLIC WORKS DEPARTMENT</div><div>REV. BY DATE</div><div>SEPT 12, 2023</div><div>DATE OF APPROVAL</div><div>TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)</div><div>UG-12</div></div>
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<div><div>CONDITION 1: TRENCH AND BASE REPAIRS ARE LOCATED ADJACENT TO EOP OR CURB.</div><div></div></div> <div><div>CONDITION 2: TRENCH AND BASE REPAIRS ARE LOCATED IN THE MIDDLE OF THE TRAVEL LANE.</div><div></div></div> <div><div>CONDITION 3: TRENCH AND BASE REPAIRS ARE ALSO LOCATED IN THE ADJACENT TRAVEL LANE.</div><div></div></div> <div><div>NOTE:</div><div>1. THIS DETAIL IS BASED ON A TWO-LANE ROADWAY AND SHALL BE FOLLOWED WHEN A PIPE IS INSTALLED WITHIN THE LIMITS OF A ROADWAY AND RUNS PARALLEL WITH THE EDGE OF PAVEMENT. THIS DETAIL CAN ALSO BE UTILIZED FOR RESTORATION NEEDS OF ROADWAYS WITH ADDITIONAL LANES. CONDITION 3 ONLY EXTENDS TO NEXT ADJACENT LANE ON MULTI-LANE ROADS.</div><div>2. THE MILL AND OVERLAY SHALL BE FIELD ADJUSTED TO MEET THE NEEDS FOR PAVEMENT RESTORATION DUE TO CONSTRUCTION ACTIVITIES AND SHALL BE COORDINATED WITH THE COUNTY.</div><div>3. SEE TRENCH WITH ASPHALT PAVEMENT TYPE A-1 PIPE BEDDING (CROSSING) DETAIL FOR NOTES 1 TO 12 THAT ARE ALSO APPLICABLE TO ASPHALT PAVEMENT RESTORATION.</div></div> <div><div>MANATEE COUNTY</div><div>PUBLIC WORKS DEPARTMENT</div><div>REV. BY DATE</div><div>SEPT 12, 2023</div><div>DATE OF APPROVAL</div><div>TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (LONGITUDINAL)</div><div>UG-13</div></div>
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<div><div>NOTE: THESE ROADS MAY ONLY BE APPROVED FOR USE IN AG-RURAL DESIGNATED AREAS ON RIGHTS-OF-WAY DEDICATED PRIOR TO OCT. 15, 1990. ROADS WILL BE CLASSIFIED AS EMERGENCY MAINTAINED ONLY. LOCAL RESIDENTS ARE REQUIRED TO PERFORM ROUTINE MAINTENANCE.</div><div></div></div> <div><div>NOTE:</div><div>1. ROAD MAY BE 12' IN WIDTH, (6' HALF WIDTH) ON NON-THROUGH ROADS (DEAD ENDS) SERVING 4 OR FEWER LOTS. SHOULDERS SHALL BE A MINIMUM OF 6' IN WIDTH AND CONSTRUCTED OF A STABILIZED OR COMPACTED SOIL WITH A MINIMUM LBR OF 40. ROAD MAY BE 16' IN WIDTH (8' HALF WIDTH) ON NON-THROUGH ROADS (DEAD ENDS) SERVING 5 TO 8 LOTS.</div><div>2. THE DEPARTMENT DIRECTOR OR DESIGNEE MAY ALLOW VARIANCE TO THE ROAD STANDARDS FOR CERTAIN CIRCUMSTANCES.</div></div> <div><div>MANATEE COUNTY</div><div>PUBLIC WORKS DEPARTMENT</div><div>REV. BY DATE</div><div>4/26/22</div><div>DATE OF B.O.C.C. APPROVAL</div><div>TYPICAL RURAL SHELL ROAD</div><div>401.10</div></div>
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LICENSED PROFESSIONAL		SHEET NUMBER
JORDAN W. WALKER, P.E.	DETAILS	26
FL LICENSE NUMBER 78652		Approved 2024-H-194-001 Curtis Vilt
DATE:		

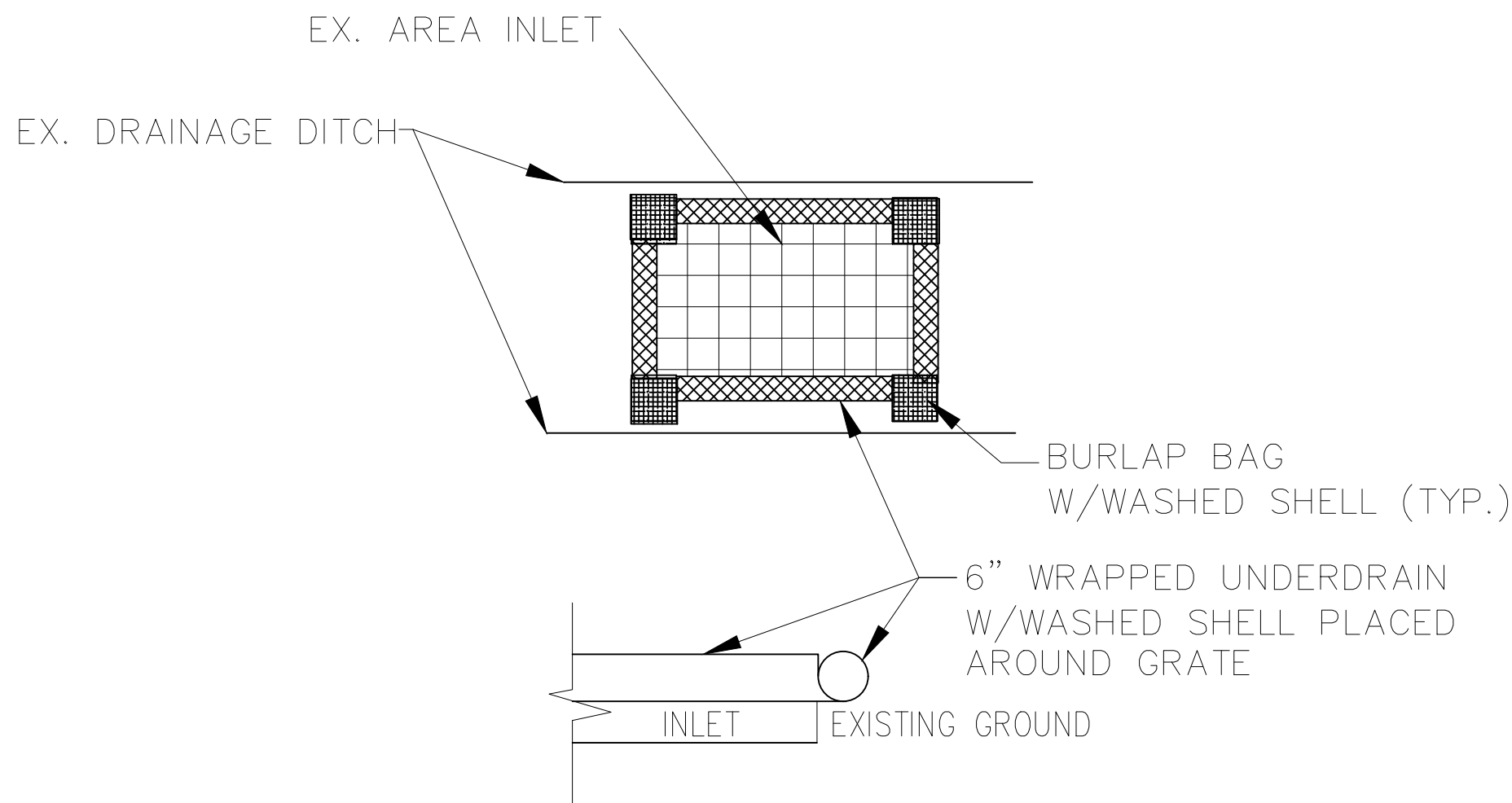
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*WEIGHTED EROSION EELS MAY BE USED AS AN ALTERNATE

SOCK DRAIN INLET PROTECTION

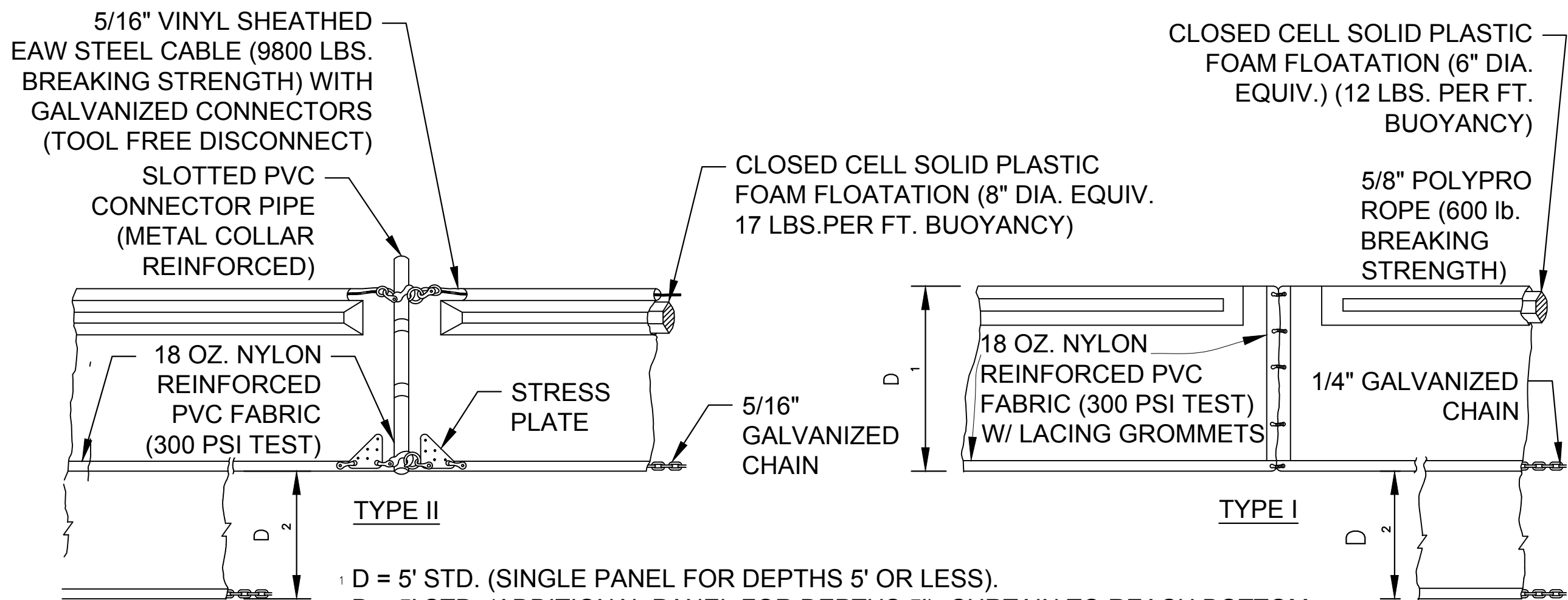
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COMPLETED INLET

INLET PROTECTION DETAIL

N.T.S.



- ¹ D = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
² D = 5' STD. (ADDITIONAL PANEL FOR DEPTHS 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

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

FLOATING TURBIDITY BARRIERS

N.T.S.

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 SR 64 (MANATEE AVENUE) WATER MAIN INTRACOASTAL CROSSING	MANATEE COUNTY

LICENSED PROFESSIONAL JORDAN W. WALKER, P.E. FL LICENSE NUMBER 78652

DETAILS

SHEET NUMBER 28 Approved 2024-H-194-00171 Curtis Vilt 11/12/2024
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Manatee County ATMS Infrastructure



Google Earth

Image © 2024 Airbus

Approved
2024-H-194-00171
Curtis Vilt
11/12/2024



200 ft

GENERAL COMMENT STAMPS

THE FDOT MUST BE NOTIFIED TWO (2) BUSINESS DAYS IN ADVANCE OF STARTING WORK AND THAT NO LANE CLOSURES ARE REQUIRED BY CONTACTING (941)708-4400. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

IF A LANE CLOSURE IS WITHIN THE PROJECT LIMITS, THE PERMITTEE MUST NOTIFY THE FDOT TWO (2) WEEKS PRIOR TO A LANE CLOSURE TO ALLOW THE FDOT TO INFORM THE MOTORING PUBLIC. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

LANE CLOSURES AND/OR WORK ACTIVITIES MAY BE RESTRICTED BY THE FDOT DUE TO HEAVY TRAFFIC AND THE POTENTIAL FOR BACKUPS CAUSED BY THESE ACTIVITIES. NIGHT WORK WILL BE REQUIRED AS THE ALTERNATE TIME FOR THESE ACTIVITIES.

THE PERMITTEE IS RESPONSIBLE FOR NOTIFYING OWNERS OF ALL EXISTING AERIAL AND UNDERGROUND UTILITIES OF A PROPOSED DRIVEWAY AND RESOLVING ANY CONFLICTS BEFORE CONSTRUCTION BEGINS.

IN ACCORDANCE WITH FL STATUTE 335.18, THE PERMITTEE SHALL BE REQUIRED TO BEAR THE COST OF FUTURE ACCESS MODIFICATIONS, TRAFFIC CONTROL DEVICES OR OTHER IMPROVEMENTS, WHEN DETERMINED BY THE FDOT TO BE IN CONJUNCTION WITH ACCEPTED ENGINEERING PRACTICES.

ALL LANE CLOSURES, CONSTRUCTION AND MAINTENANCE ACTIVITIES IN FDOT'S RIGHT-OF-WAY SHALL CONFORM TO THE CURRENT FHWA'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE CURRENT FDOT'S STANDARD PLANS FOR ROAD CONSTRUCTION.

THE PERMITTEE MUST WAIT AT LEAST FOURTEEN (14) DAYS AFTER CONSTRUCTING THE FINAL ASPHALT SURFACE COURSE TO PLACE THERMOPLASTIC PAVEMENT MARKINGS.

ALL CONTRACTORS/SUBCONTRACTORS OF THE PERMITTEE SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE PERMITTED M.O.T. PLAN.

ALL PORTIONS OF DISTURBED RIGHT-OF-WAY WILL BE SODDED WITHIN SEVENTY-TWO (72) HOURS OF COMPLETION OF WORK.

ALL ABOVE GROUND APPURTENANCES ARE TO BE LOCATED AT FDOT'S RIGHT-OF-WAY LINE.

COMPACTION, DENSITY TESTING AND THEIR REPORTS ARE TO BE COMPLETED, SUBMITTED AND APPROVED BY THE EOR PRIOR TO THE PLACEMENT OF ANY PAVEMENT.

PRIOR TO EXCAVATING, CONTACT THE CLERK OF THE CIRCUIT COURT FOR POSSIBLE GASOLINE CONFLICTS.

THE APPLICANT SHALL NOT, DURING AND AFTER COMPLETION OF PERMITTED CONSTRUCTION, INTRODUCE ANY FORM OR METHOD OF SITE DRAINAGE DISCHARGE INTO THE DRAINAGE FACILITIES ON THE FDOT'S RIGHT-OF-WAY OR EASEMENT. ANY DISCHARGE SHALL BE IN VIOLATION OF THIS PERMIT.

THE PERMITTEE IS CAUTIONED THAT UTILITIES MAY BE LOCATED WITHIN THE CONSTRUCTION AREA.

IT IS THE RESPONSIBILITY OF THE PERMITTEE TO DETERMINE AND COMPLY, IN ADDITION TO FDOT REQUIREMENTS, WITH ALL COUNTY AND MUNICIPAL ORDINANCES THAT ARE RELATIVE TO THE ACTIVITIES DESCRIBED ON THIS PERMIT.

N.P.D.E.S. REQUIRES THAT STORM WATER CONTROL MEASURES BE IMPLEMENTED ON ANY PROJECT ON PUBLIC TRANSPORTATION FACILITY RIGHTS-OF-WAY INCLUDING, BUT NOT LIMITED TO MEASURES DESCRIBED IN THE CURRENT FDOT STANDARD PLANS FOR ROAD CONSTRUCTION.

IF A CONSTRUCTION, RECONSTRUCTION, REPAIR OR MAINTENANCE ACTIVITY NECESSITATES THE CLOSING OF ONE (1) OR MORE TRAVEL LANES OF ANY ROAD ON THE STATE, COUNTY OR CITY ROAD SYSTEMS, FOR A PERIOD OF TIME EXCEEDING TWO (2) HOURS, THE PERMITTEE PERFORMING SUCH WORK WILL BE RESPONSIBLE TO GIVE NOTICE TO THE APPROPRIATE LOCAL LAW ENFORCEMENT AGENCY WITH JURISDICTION OVER SAID ROAD PRIOR TO COMMENCING WORK ON THIS PROJECT.

ADHERE TO ALL INSTRUCTIONS/REQUIREMENTS IN THE CURRENT UTILITY ACCOMODATIONS MANUAL.



FLORIDA DEPARTMENT OF TRANSPORTATION STORMWATER POLLUTION PREVENTION



The Law

The Federal Clean Water Act was established in 1972 to protect our waterways. As a result, the National Pollutant Discharge Elimination System (NPDES) program was developed. The NPDES permit program addresses water pollution by regulating point sources that discharge pollutants to surface waters. The Florida Department of Environmental Protection (FDEP) administers the NPDES program for Municipal Separate Storm Sewer Systems (MS4) and Construction activities.

CONSTRUCTION ACTIVITIES

➤ Is your construction site regulated?

Yes, if your construction activity will ultimately disturb one acre or more and has the potential to discharge stormwater to surface waters or into a MS4. Disturbance includes clearing, grading, excavation, and demolition.

➤ What are you required to do?

- ✓ Prepare and implement a Stormwater Pollution Prevention Plan (SWPPP)
- ✓ Submit a Notice of Intent (NOI or application) and the appropriate fee to FDEP
- ✓ Submit a Notice of Termination (NOT) to FDEP and to the local MS4 once the site meets the eligibility requirements for termination

For more information on NPDES Stormwater Construction Activities, contact FDEP for more information at (866) 336-6312 or visit <http://www.dep.state.fl.us/water/stormwater/index.htm>.

HOW CAN YOU HELP STOP STORMWATER POLLUTION?

- ✓ Do not pour oil or any chemicals down any storm drain or in the street
- ✓ Use fertilizers and herbicides carefully and only use the recommended amount*
- ✓ Report illicit discharges**
- ✓ Recycle used oil and dispose of chemicals properly. For more information on the proper disposal of wastes contact FDEP at (850) 245-8707 or visit: <http://www.dep.state.fl.us/waste/categories/hwRegulation/>
- ✓ Maintain proper sediment and erosion controls on your construction site



*Contact your County Agricultural Extension Office for answers to your pest and weed problems.

****Illicit Discharges:** Report any material other than stormwater being discharged into a storm drain or into the street.

County Agricultural Extension Office

County / FDOT Environmental Contacts

Charlotte Co.	(941) 764-4340	Highlands Co.	(863) 402-6540	Charlotte Co.	(941) 575-3632
Collier Co.	(239) 252-4800	Lee Co.	(239) 533-7505	Highlands Co.	(863) 402-6500
DeSoto Co.	(863) 993-4846	Manatee Co.	(941) 722-4524	Lee County	(239) 533-9400
Glades Co.	(863) 946-0244	Okeechobee Co.	(863) 763-6469	Manatee County	(941) 748-4501
Hardee Co.	(863) 773-2164	Polk Co.	(863) 519-8677	Polk County	(863) 534-7377
Hendry Co.	(863) 674-4092	Sarasota Co.	(941) 861-9900	Sarasota County	(941) 861-5000
				FDOT Right of Way	(863) 519-2762

FDOT MAINTENANCE YARDS

Arcadia Operations	(863) 993-4634	SPILL REPORTING	State Watch Office (Spill Report Hotline typically 25 gallons or more)	(800) 320-0519
Bartow Operations	(863) 519-4100			
Fort Myers Operations	(239) 985-7800	For more information on NPDES stormwater regulations, please contact, FDOT District Maintenance, at (863) 519-2762		
Labelle Operations	(863) 674-4027			
Manatee Operations	(941) 708-4400			
Sebring Operations	(863) 386-6104			

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Curtis Vilt
11/12/2024