2025 FOREIGN PROFIT CORPORATION ANNUAL REPORT

DOCUMENT# F94000000511

Entity Name: PIVOTAL UTILITY HOLDINGS, INC.

Current Principal Place of Business:

500 ENERGY LANE DOVER, DE 19901

Current Mailing Address:

500 ENERGY LANE DOVER, DE 19901 US

FEI Number: 22-1869941

Name and Address of Current Registered Agent:

CORPORATION SERVICE COMPANY 1201 HAYS STREET TALLAHASSEE, FL 32301 US

FILED Jan 13, 2025 Secretary of State 7084918838CC

Date

Certificate of Status Desired: No

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE:

Electronic Signature of Registered Agent

Officer/Director Detail :

Title Name Address	PRESIDENT SYLVESTER, JEFFRY S 500 ENERGY LANE	Title Name Address	SECRETARY, EXECUTIVE VICE PRESIDENT MORIARTY, JAMES F 500 ENERGY LANE	
City-State-Zip:	DOVER DE 19901	City-State-Zip:	DOVER DE 19901	
Title Name Address City-State-Zip:	TREASURER COOPER, BETH W 500 ENERGY LANE DOVER DE 19901	Title Name Address City-State-Zip:	SENIOR VICE PRESIDENT WEBBER, KEVIN J 500 ENERGY LANE DOVER DE 19901	
Title Name Address City-State-Zip:	AUTHORIZED PERSON STAUDT, KEVIN 500 ENERGY LN DOVER DE 19901			

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: KEVIN STAUDT

AUTHORIZED PERSON 01/13/2025

Electronic Signature of Signing Officer/Director Detail

Date

Prepared by and Return to: City of Port St. Lucie City Attorney's Office 121 S.W. Port St Lucie Blvd. Port St. Lucie, Florida 34984

SPACE ABOVE THIS LINE FOR PROCESSING DATA

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Easement for Gas Pipeline

This Easement for Gas Pipeline ("Easement") is made and entered into as of this _____ day of ______, 2025, by and between CITY OF PORT ST. LUCIE, a Florida municipal corporation ("Grantor"), whose address is 121 S.W. Port St. Lucie Blvd., Port St. Lucie, Florida 34984 and Pivotal Utility Holdings, Inc., d/b/a Florida City Gas ("Grantee"), whose address is 500 Energy Lane, Dover, DE 19901.

A. Grantor is the owner in fee simple of that certain real property (the "**Property**") lying, located and being in St. Lucie County, Florida, and more particularly described on **Exhibit** <u>A</u> attached hereto and incorporated herein by reference; and

B. Grantor desires to grant to Grantee a perpetual non-exclusive easement to construct, reconstruct, operate, maintain, repair, replace and remove a pipeline for the transportation of gas on a portion of the Property more particularly described on **Exhibit B** (the **"Easement Area"**).

C. Grantor also desires to grant Grantee a temporary construction easement to facilitate the initial construction of the pipeline on a portion of the Property more particularly described on **Exhibit C** (the "Temporary Construction Easement Area").

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties do hereby agree as follows:

1. <u>Grant of Easement.</u> By this instrument and subject to its terms and conditions, Grantor hereby grants and conveys to Grantee, its employees, agents, contractors, successors, and permitted assigns the following:

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a. <u>Temporary Construction Easement.</u> During the period of initial construction of the pipeline described in this Easement, an easement over the Temporary Construction Easement Area to facilitate initial construction and installation of the pipeline, together with the right of ingress, egress, and regress to and over the Temporary Construction Easement Area required for the enjoyment of the rights granted herein ("Temporary Construction Easement"). The Temporary Construction Easement shall terminate upon initial installation of the pipeline being complete or relocation of the Easement Area or Temporary Construction Easement Area, whichever occurs first. Upon termination of the Temporary Construction Easement, Grantee shall execute a release of the Temporary Construction Easement upon request of Grantor.

- b. <u>Permanent Easement.</u> A perpetual non-exclusive easement in the Easement Area for the construction, reconstruction, operation, maintenance, repair or replacement of one six (6'') inch HDPE pipe of underground pipeline for the transportation of gas or removal of the pipeline, together with the right of ingress, egress, and regress to and over the Easement Area required for the enjoyment of the rights granted herein.
- c. This Easement shall run with and be a burden upon the Property.

2. <u>Purpose and Limitations on Use of Easement.</u> This Easement is granted solely for the purposes and uses set forth and limited below:

- a. <u>Single Pipeline</u>. The Easement allows one (1) pipeline with a maximum diameter of six (6") inches, and with a maximum pressure of gas transported within the pipeline of 60 pounds per square inch. The pipeline shall be used only for the transportation of natural gas.
- b. <u>Depth</u>. The top of the pipeline shall be a minimum of forty-eight (48") inches from the surface (after construction and settlement) or such minimum depth as may be required by applicable regulation, whichever is greater.
- c. <u>Appurtenances</u>. There shall be no surface or subsurface appurtenances to the pipeline (including, but not limited to meter stations, meter pits, compression or pumping stations or devices, structures, fences, signs) other than as specifically provided in this Easement, or as agreed to by Grantor by separate written instrument signed by Grantor.
- d. <u>Other Easements.</u> Grantor may grant other easements over the Easement Area and Temporary Construction Easement Area so long as such other easements do not interfere with the Grantee's purposes and uses of the Easement. Grantee shall have no right to grant additional easements or sub-easements for the Easement Area and Temporary Construction Easement Area.
- e. <u>Grantor Use of Easement</u>. Grantor retains, reserves and shall continue to enjoy use of the Easement Area and Temporary Construction Easement Area for any and all purposes that do not interfere with and prevent the use by Grantee of the Easement, including but not limited to, the right to build and use the surface of the granted Easement Area and Temporary Construction Easement Area for drainage ditches, private streets, roads, driveways, alleys,

walks, gardens, lawns, plantings and, parking areas, and other like uses, and to dedicate all or any part of the Easement Area or Temporary Construction Easement Area to any public entity for use as a public street, road or alley. If the Grantor shall dedicate all or any part of the Easement Area or Temporary Construction Easement Area, the Grantee shall execute all instruments that may be necessary or appropriate to effectuate the dedication, without, however, extinguishing the rights granted in this Easement.

f.

g.

Existing Infrastructure in Easement Area. Grantee acknowledges that there is existing water, wastewater and drainage infrastructure within the Easement Area as depicted on the **Construction Plans** attached hereto as **Exhibit D** <u>("Existing Infrastructure")</u>. Grantee also acknowledges that the Easement Area or Temporary Construction Easement Area may be required for future roadway projects ("Future Roadway"). Grantee shall not interfere with the Existing Infrastructure within the Easement Area when exercising its rights under this Easement. Notwithstanding anything to the contrary contained within this Easement, Grantor is not responsible for any interference with the pipeline, prevention of use of the pipeline, or damages to the pipeline occurring as a result of construction, reconstruction, operation, maintenance, repair or replacement or removal of the Existing Infrastructure or Future Roadway.

Design, Construction and Maintenance. At all times during this Easement, in order to protect persons and property, Grantee, at its sole expense, shall provide all types of repairs and maintenance to the Easement Area and Temporary Construction Easement Area which are typical and customary according to the purpose for which this Easement is granted. Grantor shall have the right, but not obligation, to direct Grantee to perform maintenance as deemed reasonably necessary. Before commencing any type of digging, drilling, excavation or other work below the ground surface, Grantee shall, as required by law, determine if any underground utility infrastructure exists within the location where such below-ground activity is expected to occur. All design, construction, repair and maintenance of facilities and improvements within the Easement Area or Temporary Construction Easement Area shall adhere to applicable law and regulations.

To avoid interference with Grantor's use of the Easement Area or Temporary Construction Easement Area and/or by any other person or entity authorized to use either areas, and to ensure each proposed construction and maintenance activity is acceptable to Grantor, the Grantee shall not perform construction or maintenance within the Easement Area or Temporary Construction Easement Area until approved in writing by Grantor, which approval will not be unreasonably withheld or delayed.

If an emergency situation occurs which requires immediate repair of any

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facility within the Easement Area or Temporary Construction Easement Area to prevent injury to persons or property, then Grantee may at its discretion hire a licensed contractor to commence repair of the facility(ies) within the Easement Area or Temporary Construction Easement Area. In the case of an emergency situation, Grantee shall notify and consult with Grantor by telephone and/or electronic mail as soon as possible.

Upon completion of construction, and prior to the pipeline being placed in any service, Grantee shall provide Grantor with an as-built survey which reflects the location of the pipeline, its depth, diameter and the Easement Area, prepared by and stamped by a Registered Surveyor in good standing in the State of Florida. Grantee shall provide Grantor with a supplemental survey that reflects any subsequent corrections or changes to the pipeline and easement.

Right of Relocation. At any time following the Effective Date, Grantor may at its sole discretion, relocate the Easement Area or Temporary Construction Easement Area upon delivering no less than thirty (30) days prior written notice to Grantee of such relocation. Grantor and Grantee shall cooperate and work together in good faith to agree upon an alternate location, footprint, design and construction plan for the new Easement Area ("New Easement Area") or new Temporary Construction Easement Area ("New Temporary Construction Easement Area") which shall be similar to the Easement Area or Temporary Construction Easement Area, as applicable, in area and appropriateness for the use of Grantee's purposes, in which event the New Easement Area or New Construction Easement Area shall be deemed to be the Easement Area or Temporary Construction Easement Area, as applicable, for all purposes under this Easement. Grantor shall directly pay for all reasonable costs directly related to relocation of the Easement Area or Temporary Construction Easement Area, unless such relocation is due to or in any way caused by or related to (i) an action of condemnation undertaken by any entity not directly controlled by or related to the Grantor, or (ii) the Existing Infrastructure of Future Roadway. Grantee shall have one hundred eighty (180) days from the date the New Easement Area or New Temporary Construction Easement Area, as applicable, is secured in which to relocate all Grantee pipeline.

i.

h.

<u>Environmental Issues</u>. Grantee shall not use, dispose of or release on or under the Easement Area, Temporary Construction Easement Area, Property, or on lands adjacent thereto, or permit to exist or be used, disposed of or released any substances (other than those Grantee has been licensed or permitted by applicable public authorities to use on the Easement Area or Temporary Construction Easement Area) which are defined as "hazardous materials", "toxic substances" or "solid waste" in federal, state or local laws, statutes or ordinances. Should any pollutant, hazardous material, toxic substances, contaminated waste or 3 solid waste be accidentally released by Grantee, Grantee shall notify Grantor immediately after notifying the applicable governmental body of such event; whereupon Grantee shall be responsible for and timely pay all costs of cleanup, remediation, and other costs related to and arising from such event, including, but not limited to penalties. Grantee shall be responsible for and shall comply with all applicable laws and regulations as to any required permitting, licenses, and fees related thereto concerning, relating to or arising from Grantee's use of the Easement Area, Temporary Construction Easement Area, this Easement, the Property, and the pipeline.

3. <u>Indemnity.</u> Grantee agrees to defend, indemnify and hold harmless Grantor from and against any and all claims, demands and causes of action for injury, including death, or damage to persons or property or fines or penalties or environmental matters arising out of, incidental to or resulting from Grantee or Grantee's servants, agents, employees, guests, licensees, invitees or independent contractors activities hereunder, and from and against all costs and expenses incurred by Grantor by reason of any such claim or claims, including reasonable attorneys' fees, unless caused by Grantor's negligence or misconduct The provisions of this paragraph shall survive the termination of this Easement.

4. <u>Insurance</u>. See <u>Exhibit E</u>.

5. <u>No Waiver Oo Sovereign Immunity</u>. Grantee does not waive any of their sovereign immunity protections by virtue of this Easement. Grantee acknowledges that nothing contained in this Easement increases the Grantee's limits of liability set forth in Section 768.28, Florida Statutes, or waives the Grantee's sovereign immunity protections existing under the laws of the State of Florida.

6. <u>Authority.</u> Grantor hereby covenants and warrants that Grantor owns the Property and has the right and authority to grant this Easement.

7. <u>Binding Effect</u>. The rights contained within this Easement shall run with the Property and shall be binding upon and inure to the benefit of Grantor, Grantee and their successors and permitted assigns.

8. <u>No Gift or Dedication</u>. Nothing herein contained shall be deemed to be a gift or dedication of any portion of the real property described herein to the general public or for general public purposes whatsoever, it being the intention of the parties that this Easement shall be strictly limited to and for the purposes herein expressed.

9. <u>No Modification</u>. This Easement may not be amended or modified in any respect whatsoever or rescinded, in whole or in part, except by the agreement of both Grantor and Grantee, and then only by written instrument duly executed, acknowledged and recorded in the Public Records of St. Lucie County, Florida.

10. <u>Assignment</u>. The rights and obligations of Grantee under this Easement may not be assigned in whole or in part without the prior written consent of Grantor, which consent may be withheld in its sole and absolute discretion. In the event of any assignment by Grantee or any successive Grantee, the assignor shall remain fully responsible for all obligations, responsibilities and liabilities of Grantee under this Easement occurring or arising prior to such assignment (including, but not limited to, requirements as to indemnity).

11. <u>Entire Easement</u>. This Easement contains the complete understanding and agreement of the parties hereto with respect to all matters referred to herein, and all prior representations, negotiations and understandings are superseded hereby.

12. <u>713 Notice</u>. Under Florida Section 713.10, Florida Statutes, the interest of Grantor in the Property or the improvements therein, shall not be subject to liens for any improvements made by or on behalf of Grantee and it is specifically provided that neither Grantee nor any one claiming by, through or under Grantee, including, without limitation, contractors, subcontractors, materialmen, mechanics and/or laborers, shall have any right to file or place any mechanics' or materialmen's liens of any kind whatsoever upon the Property or the improvements thereon; and any such liens are hereby specifically prohibited. All parties with whom Grantee may deal are put on notice that Grantee has no power to subject Grantor's interest to any mechanics' or materialmen's lien of any kind or character, and all such persons so dealing with Grantee must look solely to the credit of Grantee and not to Grantor's said interest or assets. Grantee shall provide written notice to each contractor, subcontractor, materialman, mechanic and laborer performing work in the Property of the foregoing.

[Remainder of Page Left Blank Intentionally]

IN WITNESS WHEREOF, Grantor has executed this Easement this _____ day of _____, 2025.

Witnesses:

GRANTOR:

CITY OF PORT ST. LUCIE a Florida municipal corporation

	By:	
Printed Name/Address:	Printed Name:	
	Title:	
Printed Name/Address:		

STATE OF FLORIDA)) ss COUNTY OF ST. LUCIE)

The foregoing instrument was acknowledged before me by means of \Box physical presence or \Box online notarization this day of ______2025, by _______, as _____of the City of Port St. Lucie, and on behalf of the City of Port St. Lucie, who is [X] personally known to me, or who has [] produced the following identification

Signature of Notary Public

NOTARY SEAL/STAMP

Name: _____

Notary Public, State of Florida My Commission expires _____

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IN WITNESS WHEREOF, Grantee has executed this Easement this <u>13</u> day of <u>MAY</u> 2025.

Bv

GRANTEE:

Title: President

Printed Name: Jeff Sylvester

WITNESSES:

Lom Schott

Printed Name: Tom Schott Address: 450 S. Charles Richard Beal Blvd. Debary, FL 32713

Printed Name: <u>Michael C Angeli</u> Address: 450 S Charles Richard Beal Blvd Debary, FL 32713

STATE OF FLORIDA)) SS: COUNTY OF ST. LUCIE)

The foregoing instrument was acknowledged before me by means of \Box physical presence or \Box online notarization this _______ day of $\underline{M4}$, 2025, by $\underline{J} = \underline{\xi}$ [wester the presence of \Box of \underline{Pi} of \underline{Pi} of $\underline{M4}$, 2025, by $\underline{J} = \underline{\xi}$ [wester the of \underline{Pi} of \underline{Pi} of $\underline{M4}$ of \underline{M4} of $\underline{M4}$ of $\underline{M4}$ of $\underline{M4}$ of $\underline{M4}$ of \underline{M4} of $\underline{M4}$ of $\underline{M4}$ of $\underline{M4}$ of \underline{M4} of $\underline{M4}$ of $\underline{M4}$ of $\underline{M4}$ of $\underline{M4}$ of $\underline{M4}$ of $\underline{M4}$ of \underline{M4} of $\underline{M4}$ of \underline{M4} of $\underline{M4}$ of \underline{M4} of $\underline{M4}$ of \underline{M4} of \underline{M4} of \underline{M4} of $\underline{M4}$ of \underline{M4} of \underline{M4} of $\underline{M4}$ of \underline{M4} of \underline{M4} of $\underline{M4}$ of \underline{M4} of \underline

Signature of

Name: Michael CAugel

Notary Public, State of Florida My Commission expires _

2/3/2029

NOTARY SEAL/STAMP



Exhibit A

The Property

All that tract or parcel of land lying and being in Section 31, Township 37 South, Range 40 East, of St. Lucie County, Florida, and being more fully described in Official Record Book 4416, Page 2310 and shown as Lot 1, Block 2325, Port St. Lucie Section Thirty-Three recorded in Plat Book 15, Page 1, in the Public Records of St. Lucie County, Florida, and further described by the St. Lucie County Property Appraiser as Parcel ID: 3420-660-3495-000-4.

And

All that tract or parcel of land lying and being in Section 31, Township 37 South, Range 40 East, of St. Lucie County, Florida, and being more fully shown as Drainage Right of Way, Block 2325, Port St. Lucie Section Thirty-Three, recorded in Plat Book 15, Page 1, in the Public Records of St. Lucie County, Florida, and further described by the St. Lucie County Property Appraiser as Parcel ID: 3420-660-3564-000-9.

And

All that tract or parcel of land lying and being in Section 31, Township 37 South, Range 40 East, of St. Lucie County, Florida, and being more fully described in Official Record Book 4416, Page 2310 and shown as Lot 32, Block 2325, Port St. Lucie Section Thirty-Three recorded in Plat Book 15, Page 1, in the Public Records of St. Lucie County, Florida, and further described by the St. Lucie County Property Appraiser as Parcel ID: 3420-660-3526-000-1.

And

All that tract or parcel of land lying and being in Section 31, Township 37 South, Range 40 East, of St. Lucie County, Florida, and being more fully described in Official Record Book 4416, Page 2310 and shown as Tract X, Block 2326, Port St. Lucie Section Thirty-Three recorded in Plat Book 15, Page 1, in the Public Records of St. Lucie County, Florida, and further described by the St. Lucie County Property Appraiser as Parcel ID: 3420-660-0021-000-0.

Exhibit B

Easement Area

[SEE ATTACHED]

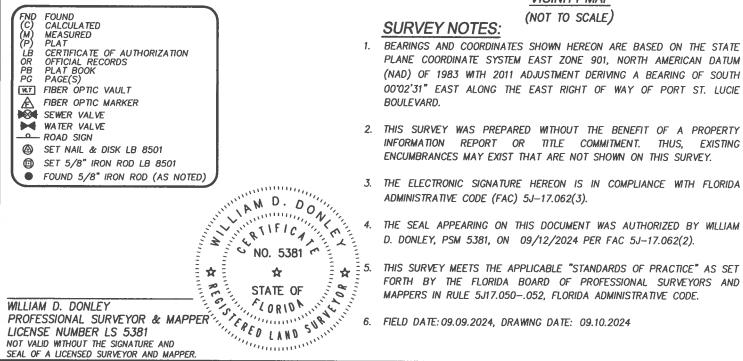
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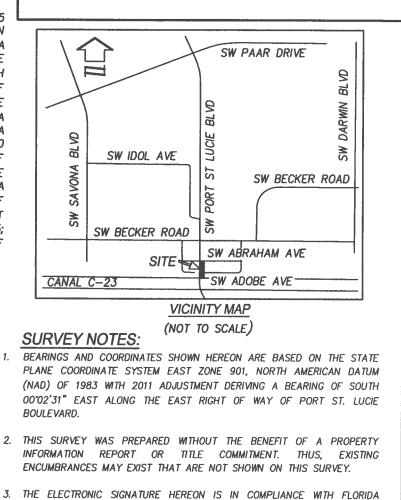
A PORTION OF LOT 1, BLOCK 2325, PORT ST. LUCIE SECTION THIRTY THREE, AS RECORDED IN PLAT BOOK 15, PAGE 1-V, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, LYING IN SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF LOT 1. BLOCK 2325 OF SAID PORT ST. LUCIE SECTION THIRTY THREE; THENCE RUN N89'55'19"W, ALONG THE SOUTH LINE OF SAID LOT 1, A DISTANCE OF 27.29 FEET TO THE POINT OF BEGINNING; THENCE N00'04'41"E, A DISTANCE OF 125.00 FEET TO THE SOUTH RIGHT OF WAY OF ABRAHAM AVENUE (60.00' PUBLIC RIGHT OF WAY); THENCE RUN ALONG SAID SOUTH RIGHT OF WAY THE FOLLOWING TWO COURSES AND DISTANCES: N89'55'19"W, A DISTANCE OF 50.41 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 53'07'48", A CHORD BEARING OF S63'30'47"W AND A CHORD DISTANCE OF 22.36 FEET; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE, A DISTANCE OF 23.18 FEET; THENCE S89°55'19"E, A DISTANCE OF 60.41 FEET: THENCE SOO'04'41"W, A DISTANCE OF 115.00 FEET TO THE AFORESAID SOUTH LINE OF LOT 1, BLOCK 2325; THENCE S89'55'19"E, ALONG SAID SOUTH LINE, A DISTANCE OF 10.00 FEET TO THE POINT OF BEGINNING.

CONTAINING: 1793.927 SQUARE FEET, 0.041 ACRES.

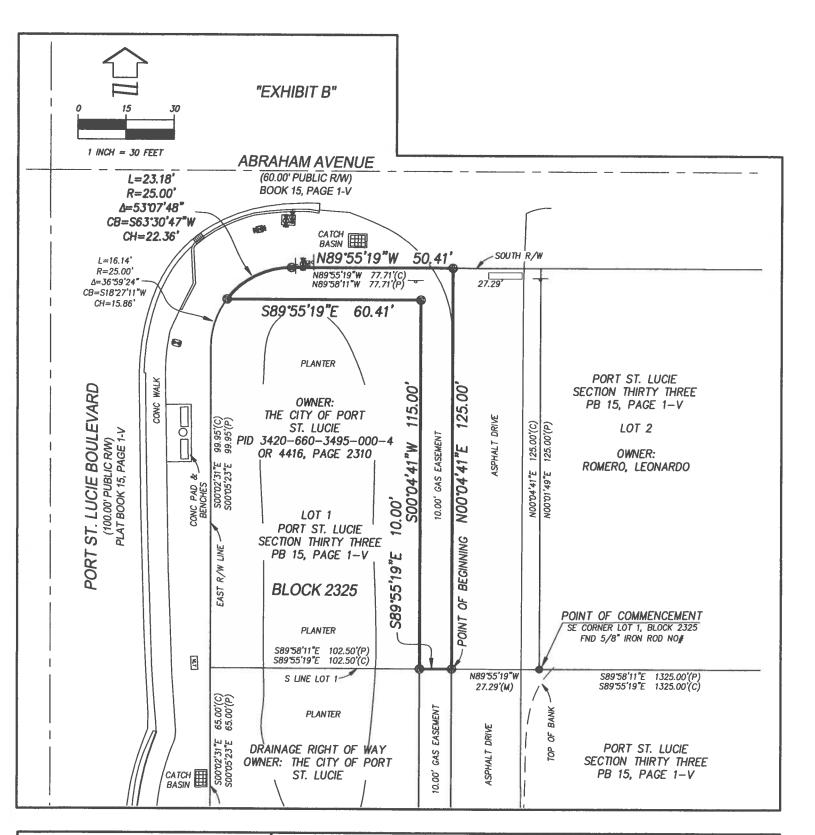
ABBREVIATIONS/LEGEND:





- ADMINISTRATIVE CODE (FAC) 5J-17.062(3).

BOUNDARY SURVEY of: PERMANENT GAS EASEMENT ON THE	DONLEY CONSULTING GROUP, LLC	PREPARED for:
PROPERTY OF THE CITY OF PORT ST. LUCIE A PORTION OF LOT 1, BLOCK 2325 PORT ST. LUCIE SECTION THIRTY THREE	210 PARKTOWNE BOULEVARD, SUITE 1 EDGEWATER, FLORIDA 32132 PHONE: 407,947,4552	FLORIDA CITY GAS
CITY OF PORT ST. LUCIE SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST ST. LUCIE COUNTY FLORIDA	WWW.DONLEYCONSULTING.COM CERTIFICATE OF AUTHORIZATION NO. LB 8501 SHEET 1 OF 2	DATE: 09/10/24 PROJ: 110.019 REV DATE: DRAWN BY: WDD CHECKED BY: WDD



	¬1	
BOUNDARY SURVEY of: PERMANENT GAS EASEMENT ON THE	DONLEY CONSULTING GROUP, LLC	PREPARED for:
PROPERTY OF THE CITY OF PORT ST. LUCIE	210 PARKTOWNE BOULEVARD, SUITE 1	FLORIDA CITY GAS
A PORTION OF LOT 1, BLOCK 2325 PORT ST. LUCIE SECTION THIRTY THREE CITY OF PORT ST. LUCIE SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST	EDGEWATER, FLORIDA 32132 PHONE: 407.947.4552 WWW.DONLEYCONSULTING.COM CERTIFICATE OF A UTHORIZATION NO. LB 8501	DATE: 09/10/24 PROJ: 110.019
ST. LUCIE COUNTY FLORIDA	SHEET 2 OF 2	REV DATÉ: DRAWN BY: WDD CHECKED BY: WDD

LEGAL DESCRIPTION:

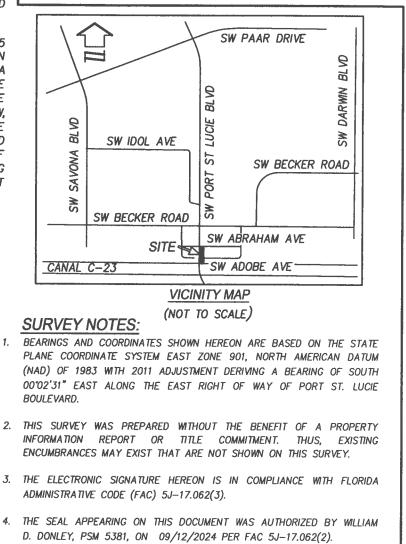
A PORTION OF THE DRAINAGE RIGHT OF WAY, BLOCK 2325, PORT ST. LUCIE SECTION THIRTY THREE, AS RECORDED IN PLAT BOOK 15, PAGE 1-V, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, LYING IN SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF LOT 1, BLOCK 2325 OF SAID PORT ST. LUCIE SECTION THIRTY THREE; THENCE RUN N89'55'19"W, ALONG THE SOUTH LINE OF SAID LOT 1, A DISTANCE OF 27.29 FEET TO THE POINT OF BEGINNING; THENCE SOO'04'41"W, A DISTANCE OF 65.00 FEET TO THE SOUTH LINE OF SAID DRAINAGE RIGHT OF WAY; THENCE N89'55'19"W, ALONG SAID SOUTH LINE, A DISTANCE OF 10.00 FEET; THENCE N00'04'41"E, A DISTANCE OF 65.00 FEET TO THE AFORESAID SOUTH LINE OF LOT 1, BLOCK 2325 AND THE NORTH LINE OF SAID DRAINAGE RIGHT OF WAY; THENCE S89'55'19"E, ALONG SAID SOUTH LINE, A DISTANCE OF 10.00 FEET TO THE POINT OF BEGINNING.

CONTAINING: 650.00 SQUARE FEET, 0.015 ACRES.

ABBREVIATIONS/LEGEND:

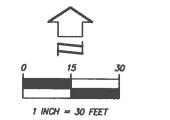




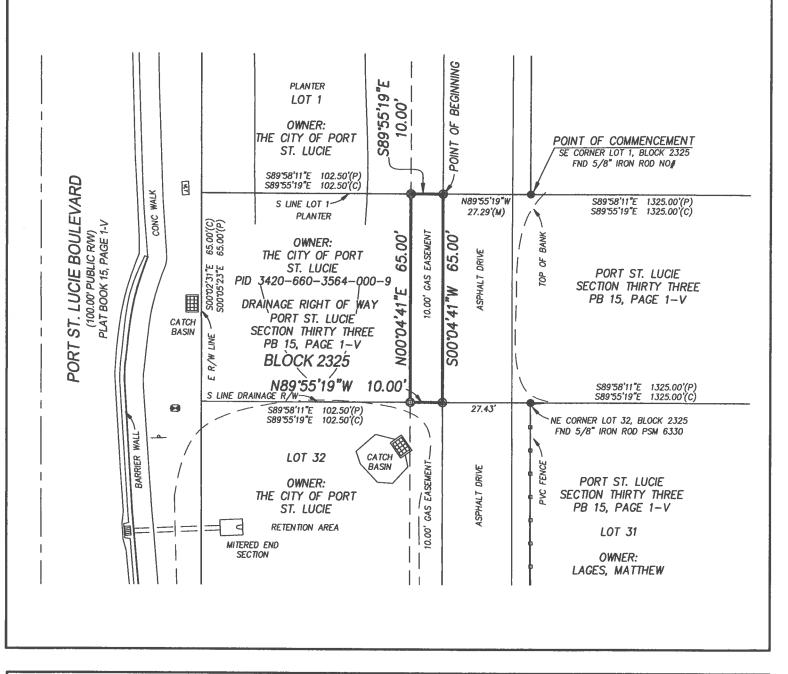
5. THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN RULE 5J17.050-.052, FLORIDA ADMINISTRATIVE CODE.

6. FIELD DATE: 09.09.2024, DRAWING DATE: 09.10.2024

BOUNDARY SURVEY of: PERMANENT GAS EASEMENT ON THE PROPERTY OF THE CITY OF	DONLEY CONSULTING GROUP, LLC	PREPARED for:
PORT ST. LUCIE A PORTION OF THE DRAINAGE RIGHT OF WAY, BLOCK 2325 PORT ST. LUCIE SECTION THIRTY THREE CITY OF PORT ST. LUCIE	210 PARKTOWNE BOULEVARD, SUITE 1 EDGEWATER, FLORIDA 32132 PHONE: 407.947.4552 WWW.DONLEYCONSULTING.COM CERTIFICATE OF AUTHORIZATION NO. LB 8501	FLORIDA CITY GAS
SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST ST. LUCIE COUNTY FLORIDA	SHEET 1 OF 2	REV DATE: DRAWN BY: WDD CHECKED BY: WDD



"EXHIBIT B"



BOUNDARY SURVEY of: DONLEY CONSULTING PREPARED for: PERMANENT GAS GROUP, LLC EASEMENT ON THE PROPERTY OF THE CITY OF FLORIDA CITY GAS PORT ST. LUCIE 210 PARKTOWNE BOULEVARD, SUITE 1 EDGEWATER, FLORIDA 32132 A PORTION OF THE DRAINAGE RIGHT OF WAY, BLOCK 2325 PHONE: 407.947.4552 PORT ST. LUCIE SECTION THIRTY THREE WWW.DONLEYCONSULTING.COM CITY OF PORT ST. LUCIE **CERTIFICATE OF AUTHORIZATION NO. LB 8501** DATE: 09/10/24 REV DATE: PROJ: 110.019 SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST DRAWN BY: WDD ST. LUCIE COUNTY FLORIDA CHECKED BY: WDD SHEET 2 OF 2

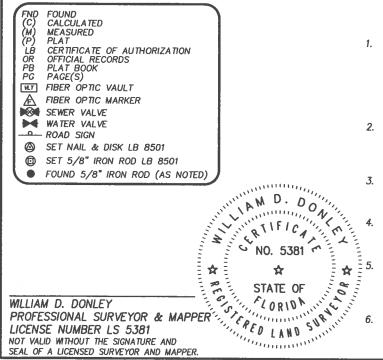
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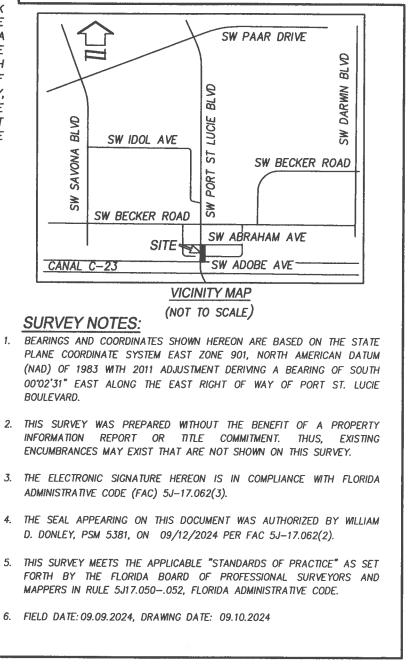
A PORTION OF LOT 32, BLOCK 2325, PORT ST. LUCIE SECTION THIRTY THREE, AS RECORDED IN PLAT BOOK 15, PAGE 1-V, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, LYING IN SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF LOT 32, BLOCK 2325 OF SAID PORT ST. LUCIE SECTION THIRTY THREE; THENCE RUN N89'55'19"W, ALONG THE NORTH LINE OF SAID LOT 32, A DISTANCE OF 27.43 FEET TO THE POINT OF BEGINNING; THENCE SOO'04'41"W, A DISTANCE OF 125.00 FEET TO THE NORTH RIGHT OF WAY OF ADOBE AVENUE (60.00' PUBLIC RIGHT OF WAY); THENCE N89'55'19"W, ALONG SAID NORTH RIGHT OF WAY, A DISTANCE OF 10.00 FEET; THENCE N00'04'41"E, A DISTANCE OF 125.00 FEET TO THE AFORESAID NORTH LINE OF SAID LOT 32; THENCE S89'55'19"E ALONG SAID NORTH LINE, A DISTANCE OF 10.00 FEET TO THE POINT OF BEGINNING.

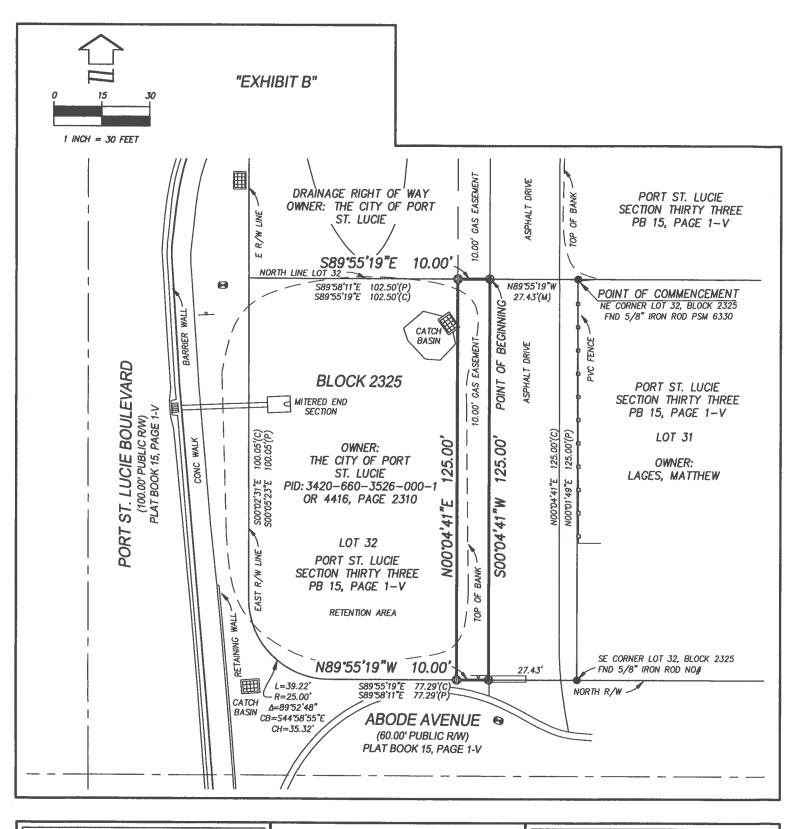
CONTAINING: 1250.00 SQUARE FEET, 0.029 ACRES.

ABBREVIATIONS/LEGEND:





BOUNDARY SURVEY of: PERMANENT GAS EASEMENT ON THE	DONLEY CONSULTING GROUP, LLC	PREPARED for:
PROPERTY OF THE CITY OF	210 PARKTOWNE BOULEVARD. SUITE 1	FLORIDA CITY GAS
PORT ST. LUCIE A PORTION OF LOT 32, BLOCK 2325 PORT ST. LUCIE SECTION THIRTY THREE	EDGEWATER, FLORIDA 32132 PHONE: 407,947,4552 WWW.DONLEYCONSULTING.COM	
CITY OF PORT ST. LUCIE SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST	CERTIFICATE OF AUTHORIZATION NO. LB 8501	DATE: 09/10/24 PROJ: 110.019 REV DATE: DRAWN BY: WDD
ST. LUCIE COUNTY FLORIDA	SHEET 1 OF 2	CHECKED BY: WDD



BOUNDARY SURVEY of: PERMANENT GAS EASEMENT ON THE	DONLEY CONSULTING GROUP, LLC	PREPARED for:
PROPERTY OF THE CITY OF PORT ST. LUCIE A PORTION OF LOT 32, BLOCK 2325 PORT ST. LUCIE SECTION THIRTY THREE CITY OF PORT ST. LUCIE	210 PARKTOWNE BOULEVARD, SUITE 1 EDGEWATER, FLORIDA 32132 PHONE: 407.947.4552 WWW.DONLEYCONSULTING.COM	FLORIDA CITY GAS
SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST ST. LUCIE COUNTY FLORIDA	CERTIFICATE OF AUTHORIZATION NO. LB 8501 SHEET 2 OF 2	DATE: 09/10/24 PROJ: 110.019 REV DATE: DRAWN BY: WDD CHECKED BY: WDD

LEGAL DESCRIPTION:

A PORTION OF TRACT X, BLOCK 2326, PORT ST. LUCIE SECTION THIRTY THREE, AS RECORDED IN PLAT BOOK 15, PAGE 1-V, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, LYING IN SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF TRACT X, BLOCK 2326 OF SAID PORT ST. LUCIE SECTION THIRTY THREE: THENCE RUN N89'55'19"W, ALONG THE SOUTH LINE OF SAID TRACT X. A DISTANCE OF 31.50 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N89'55'19"W, A DISTANCE OF 10.00 FEET: THENCE NO0'36'34"W, A DISTANCE OF 125.01 FEET TO THE SOUTH RIGHT OF WAY OF ADOBE AVENUE (60.00' PUBLIC RIGHT OF WAY); THENCE S89'55'19"E, ALONG SAID SOUTH RIGHT OF WAY, A DISTANCE OF 10.00 FEET; THENCE SOO'36'34"E, A DISTANCE OF 125.01 FEET TO THE POINT OF BEGINNING.

CONTAINING: 1250.10 SQUARE FEET, 0.029 ACRES.

ABBREVIATIONS/LEGEND:

CERTIFICATE OF AUTHORIZATION OFFICIAL RECORDS PLAT BOOK PAGE(S)

FOUND CALCULATED MEASURED

THER OPTIC VAULT

SEWER VALVE WATER VALVE

ROAD SIGN

FIBER OPTIC MARKER

PLAT

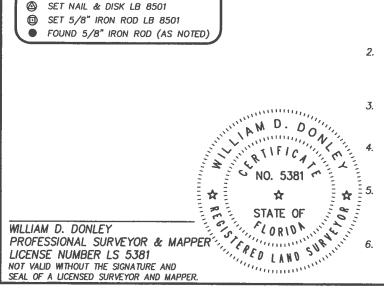
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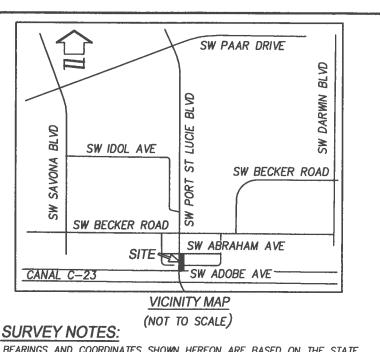
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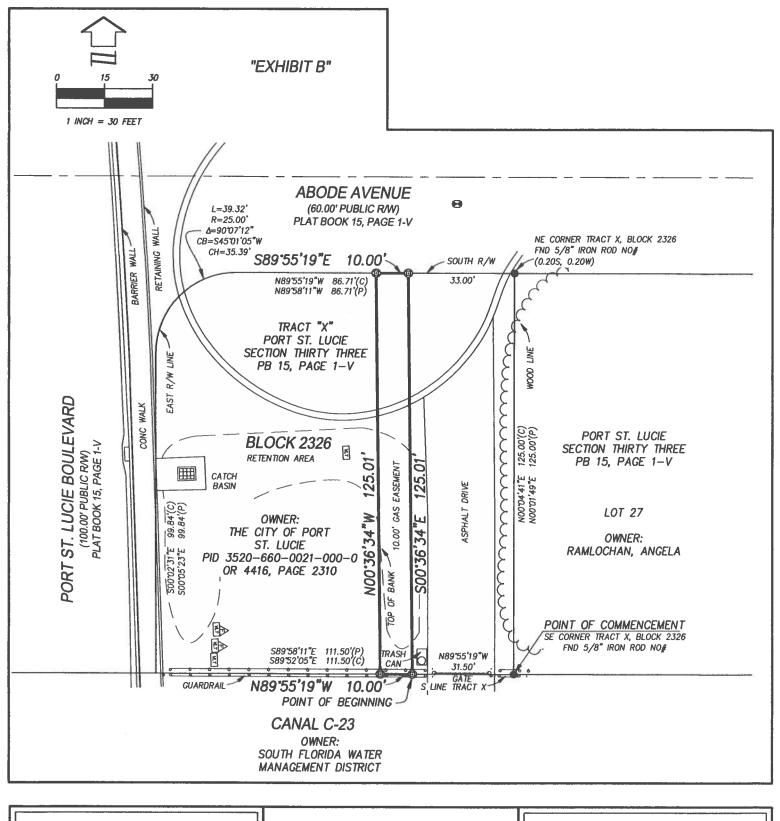


- 1. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE STATE PLANE COORDINATE SYSTEM EAST ZONE 901, NORTH AMERICAN DATUM (NAD) OF 1983 WITH 2011 ADJUSTMENT DERIVING A BEARING OF SOUTH 00'02'31" EAST ALONG THE EAST RIGHT OF WAY OF PORT ST. LUCIE BOULEVARD.
- 2. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A PROPERTY INFORMATION REPORT OR TITLE COMMITMENT. THUS, EXISTING ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN ON THIS SURVEY.
- 3. THE ELECTRONIC SIGNATURE HEREON IS IN COMPLIANCE WITH FLORIDA ADMINISTRATIVE CODE (FAC) 5J-17.062(3).
- 4. THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY WILLIAM D. DONLEY, PSM 5381, ON 09/12/2024 PER FAC 5J-17.062(2).

THIS SURVEY MEETS THE APPLICABLE "STANDARDS OF PRACTICE" AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN RULE 5J17.050-.052, FLORIDA ADMINISTRATIVE CODE.

6. FIELD DATE: 09.09.2024, DRAWING DATE: 09.10.2024

BOUNDARY SURVEY of: PERMANENT GAS EASEMENT ON THE	DONLEY CONSULTING GROUP, LLC	PREPARED for:
PROPERTY OF THE CITY OF PORT ST. LUCIE	210 PARKTOWNE BOULEVARD, SUITE 1 EDGEWATER, FLORIDA 32132	FLORIDA CITY GAS
A PORTION OF TRACT X, BLOCK 2326 PORT ST. LUCIE SECTION THIRTY THREE CITY OF PORT ST. LUCIE SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST	PHONE: 407.947.4552 WWW.DONLEYCONSULTING.COM CERTIFICATE OF AUTHORIZATION NO. LB 8501	DATE: 09/10/24 PROJ: 110.019
ST. LUCIE COUNTY FLORIDA	SHEET 1 OF 2	REV DATE: DRAWN BY: WDD CHECKED BY: WDD



BOUNDARY SURVEY of:		PREPARED for:
PERMANENT GAS	DONLEY CONSULTING GROUP, LLC	The Areb lor.
EASEMENT ON THE	GROOF, LEC	
PROPERTY OF THE CITY OF		FLORIDA CITY GAS
PORT ST. LUCIE	210 PARKTOWNE BOULEVARD, SUITE 1 EDGEWATER, FLORIDA 32132	
A PORTION OF TRACT X, BLOCK 2326 PORT ST. LUCIE SECTION THIRTY THREE CITY OF PORT ST. LUCIE	PHONE: 407.947.4552 WWW.DONLEYCONSULTING.COM CERTIFICATE OF AUTHORIZATION N.O. LB 8501	
SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST	CERTIFICATE OF AUTHORIZATION NO. LB 6501	DATE: 09/10/24 PROJ: 110.019 REV DATE: DRAWN BY: WDD
ST. LUCIE COUNTY FLORIDA	SHEET 2 OF 2	CHECKED BY: WDD

<u>Exhibit C</u>

Temporary Construction Easement Area

[SEE ATTACHED]

LEGAL DESCRIPTION:

(TCE PART A)

A PORTION OF LOT 1, BLOCK 2325, PORT ST. LUCIE SECTION THIRTY THREE, AS RECORDED IN PLAT BOOK 15, PAGE 1–V, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, LYING IN SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF LOT 1, BLOCK 2325 OF SAID PORT ST. LUCIE SECTION THIRTY THREE; THENCE RUN N89'55'19"W, ALONG THE SOUTH LINE OF SAID LOT 1, A DISTANCE OF 37.29 FEET; THENCE N00'04'41"E, A DISTANCE OF 45.50 FEET TO THE POINT OF BEGINNING; THENCE N89'55'19"W, A DISTANCE OF 15.00 FEET; THENCE N00'04'41"E, A DISTANCE OF 69.50 FEET; THENCE S89'55'19"E, A DISTANCE OF 15.00 FEET; THENCE S00'04'41"W, A DISTANCE OF 69.50 FEET TO THE POINT OF BEGINNING.

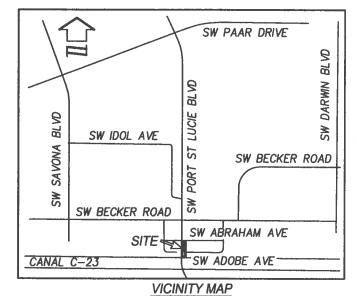
CONTAINING: 1,042.50 SQUARE FEET.

(TCE PART B)

A PORTION OF LOT 1, BLOCK 2325, PORT ST. LUCIE SECTION THIRTY THREE, AS RECORDED IN PLAT BOOK 15, PAGE 1-V, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, LYING IN SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF LOT 1, BLOCK 2325 OF SAID PORT ST. LUCIE SECTION THIRTY THREE; THENCE RUN N89'55'19"W, ALONG THE SOUTH LINE OF SAID LOT 1, A DISTANCE OF 27.29 FEET; THENCE N00'04'41"E, A DISTANCE OF 45.50 FEET TO THE POINT OF BEGINNING; THENCE N00'04'41"E, A DISTANCE OF 50.00 FEET; THENCE S89'55'19"E, A DISTANCE OF 10.00 FEET; THENCE S00'04'41"W, A DISTANCE OF 50.00 FEET; THENCE N89'55'19"W, A DISTANCE OF 10.00 FEET TO THE POINT OF BEGINNING.

CONTAINING: 500.00 SQUARE FEET. Digitally signed by William D Donley C ORID K ORI



SKETCH NOTES:

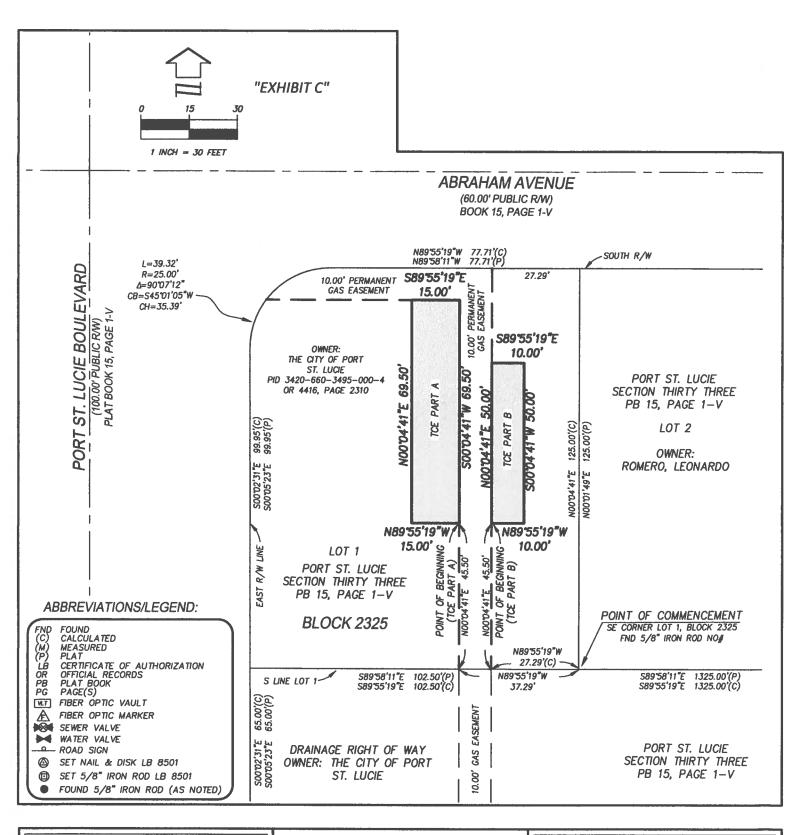
1. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE STATE PLANE COORDINATE SYSTEM EAST ZONE 901, NORTH AMERICAN DATUM (NAD) OF 1983 WITH 2011 ADJUSTMENT DERIVING A BEARING OF SOUTH 00'02'31" EAST ALONG THE EAST RIGHT OF WAY OF PORT ST. LUCIE BOULEVARD.

(NOT TO SCALE)

- 2. THIS SKETCH WAS PREPARED WITHOUT THE BENEFIT OF A PROPERTY INFORMATION REPORT OR TITLE COMMITMENT. THUS, EXISTING ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
- 3. THE ELECTRONIC SIGNATURE HEREON IS IN COMPLIANCE WITH FLORIDA ADMINISTRATIVE CODE (FAC) 5J-17.062(3).
- 4. THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY WILLIAM D. DONLEY, PSM 5381, ON 09/12/2024 PER FAC 5J-17.062(2).
- 5. THIS SKETCH MEETS THE APPLICABLE "STANDARDS OF PRACTICE" AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN RULE 5J17.050–.052, FLORIDA ADMINISTRATIVE CODE.
- 6. DRAWING DATE: 02.26.25

7. THIS IS NOT A BOUNDARY SURVEY.

SKETCH & DESCRIPTION of: TEMPORARY CONSTRUCTION EASEMENT	DONLEY CONSULTING GROUP, LLC	PREPARED for:
ON THE PROPERTY OF THE CITY OF PORT ST. LUCIE A PORTION OF LOT 1, BLOCK 2325	210 PARKTOWNE BOULEVARD, SUITE 1 EDGEWATER, FLORIDA 32132 PHONE: 407.947.4552	FLORIDA CITY GAS
PORT ST. LUCIE SECTION THIRTY THREE CITY OF PORT ST. LUCIE SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST ST. LUCIE COUNTY FLORIDA	WWW.DONLEYCONSULTING.COM CERTIFICATE OF AUTHORIZATION NO. LB 8501 SHEET 1 OF 2	DATE: 02/26/25 PROJ: 110.019 REV DATE: DRAWN BY: WDD CHECKED BY: WDD



SKETCH & DESCRIPTION of: TEMPORARY CONSTRUCTION EASEMENT	DONLEY CONSULTING GROUP, LLC	PREPARED for:
ON THE PROPERTY OF THE CITY OF PORT ST. LUCIE	210 PARKTOWNE BOULEVARD, SUITE 1	FLORIDA CITY GAS
A PORTION OF LOT 1, BLOCK 2325 PORT ST. LUCIE SECTION THIRTY THREE CITY OF PORT ST. LUCIE SECTION 31, TOWNSHIP 37 SOUTH, RANGE 40 EAST	EDGEWATER, FLORIDA 32132 PHONE: 407.947.4552 WWW.DONLEYCONSULTING.COM CERTIFICATE OF A UTHORIZATION NO. LB 8501	DATE: 02/26/25 DDD1 440.040
ST. LUCIE COUNTY FLORIDA	SHEET 2 OF 2	DATE: 02/26/25 PROJ: 110.019 REV DATE: DRAWN BY: WDD CHECKED BY: WDD

<u>Exhibit D</u>

Construction Plans [SEE ATTACHED]

NEWFIELD CANAL HDD CROSSING GAS MAIN INSTALLATION ST LUCIE COUNTY AND MARTIN COUNTY, FL

	PROJECT SUMMARY			
6-IN	ICH PE GAS	S MAIN TOTAL LENGTH	1,450 FEET	
BORE PITS 4			4	
	6" PE GAS	MAIN HDD/TRENCHED	170 FEET	
	6" PE GAS MAIN WITH 10" STEEL CASING HDD LENGTH		1,280	
		CANAL HDD LENGTH	401 FEET	
		EXISTING CANAL ROW WIDTH	400 FEET	
		EXISTING TOP OF BANK WIDTH	215 FEET	



PERMIT CONTACTS

SOUTH FLORIDA WATER MANAGEMENT DISTRICT PO BOX 24680 WEST PALM BEACH, FL 33416-4680

ST LUCIE COUNTY ENGINEERING DIVISION 2300 VIRGINIA AVE, 2ND FLOOR FT. PIERCE, FL 34982

MARTIN COUNTY 2401 SE Monterey Rd. Stuart, FL 34996

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHEAST DISTRICT 3301 GUN CLUB RD MSC 7210-1 WEST PALM BEACH, FL 33406

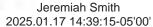
UNITED STATES ARMY CORPS OF ENGINEERING 4400 PGA BLVD., SUITE 203

PALM BEACH GARDENS, FL 33410



This item has been digitally signed and sealed by Jeremiah Mathew Smith on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.







PROJECT LOCATION

PREPARED IN THE OFFICE OF:



Corporate Headquarters 55 E Monroe St, Suite 3450 | Chicago, Illinois 60603 | 312-201-7900 PREPARED FOR THE OFFICE OF:



FLORIDA CITY GAS STACY MOREIRA | ENGINEERING TECH 4045 NW 97 AVE | DORAL, FLORIDA 33178 | 786-758-0003

SHEET	LIST TABLE
SHEET NUMBER	SHEET TITLE
C-101 TO C-102	GENERAL NOTES
C-103	QUANTITIES
C-104	KEYSHEET
C-200 TO C-202	PLAN SHEETS
C-300	EROSION CONTROL DETAILS
C-301 TO C-303	MISCELLANEOUS DETAILS
C-400	MAINTENANCE OF TRAFFIC
C-500	C-23 CANAL HDD
PERMIT DRAWING	C-23 CANAL PERMIT

SECTION	TOWNSHIP	RANGE
31	37S	40E
06	38S	40E

TOTAL NEW 6" PE PLASTIC FOOTAGE 1,720 TOTAL

1,350' CANAL HDD 370' ADDITIONAL HDD AND TIE-IN CONNECTIONS

BCA: IO: Ret. IO: ID: Proj. Coordinator: STACY MOREIRA

REVISIONS

7	ISSUED FOR CONSTRUCTION	01/17/2025	JMS
6	REISSUED FOR PERMIT	12/13/2024	JMS
5	REISSUED FOR PERMIT	10/02/2024	JMS
4	ISSUED FOR PERMIT	8/20/2024	JMS
REV.	DESCRIPTION OF REVISION	DATE	APP.

GENERAL NOTES

- 1. THE LOCATIONS AND SIZE OF EXISTING UTILITIES AND RIGHT-OF-WAY, AS SHOWN ON THE PLANS, ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. HOWEVER, THERE IS NO GUARANTEE THAT ALL EXISTING FACILITIES HAVE BEEN FOUND OR SHOWN. THE CONTRACTOR IS FOREWARNED TO ASCERTAIN AND DETERMINE PRECISE LOCATIONS PREPARATORY TO EXCAVATING AND ALSO FAMILIARIZE HIMSELF WITH ALL VOLTAGES CARRIED IN OVERHEAD OR UNDERGROUND UTILITY SERVICES. NO CLAIM FOR EXTRA COST SHALL BE MADE AGAINST THE OWNER OR ENGINEER AS A RESULT OF THE AFOREMENTIONED APPROXIMATIONS. THE CONTRACTOR SHALL LOCATE EXACTLY ALL EXISTING UTILITIES THAT CROSS THE PROPOSED GAS LINE PRIOR TO CONSTRUCTION. ALL R/W LINES PROPERTY LINES AND EASEMENT LINES ARE APPROXIMATE ONLY AND ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL CALL "SUNSHINE 811" 1-800-432-4770 OR COMPLETE A LOCATE TICKET ONLINE A MINIMUM OF 2 BUSINESS DAYS AND A MAXIMUM OF 10 DAYS PRIOR TO START OF CONSTRUCTION.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE WHATEVER MEANS NECESSARY TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- 4. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
- 5. NOT ALL FEATURES ARE SHOWN, INCLUDING, BUT NOT LIMITED TO, OVERHEAD UTILITIES, TRAFFIC CONTROL WIRING AND APPURTENANCES, EXISTING UTILITY SERVICE LINES AND ROAD SIGNS. IT SHALL BE THE CONTRACTOR'S **RESPONSIBILITY TO LOCATE AND PROTECT THESE** FACILITIES DURING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 6. THESE PLANS ARE NOT AN ACTUAL SURVEY. RIGHT-OF-WAY AND EDGE OF PAVEMENT INFORMATION IS APPROXIMATE ONLY AND BASED ON EXISTING RIGHT-OF-WAY MAPS AND/OR AS-BUILT MAPS.
- 7. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT STANDARD SPECIFICATION OR ROAD AND BRIDGE CONSTRUCTION. AND THE FDOT UTILITY ACCOMMODATION MANUAL (UAM).

CONSTRUCTION NOTES

UTILITIES:

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE SUNSHINE STATE ONE CALL "SUNSHINE 811" AT (800) 432-4770 TO ESTABLISH A CALL TICKET FOR LOCATES AND MUST KEEP THE CALL TICKET RENEWED AND UP TO DATE AS THE PROJECT PROGRESSES. CONTRACTOR IS REQUIRED TO FOLLOW FLORIDA STATUTE 556 UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT AND PRESERVE FROM DAMAGE ALL EXISTING PROPERTY WITHIN THE PROJECT LIMITS OF OR IN ANY WAY 1. AFFECTED BY THE WORK. THE REMOVAL OR DESTRUCTION OF WHICH IS NOT SPECIFIED IN THE PLANS. THIS APPLIES TO, BUT IS NOT LIMITED TO, PUBLIC AND PRIVATE PROPERTY. THE UNDERGROUND FACILITY DAMAGE SAFETY ACT, CHAPTER 556, FLORIDA STATUTES REQUIRES NOTIFICATION FROM CONTRACTOR THROUGH SUNSHINE811 NOT LESS THAN 2 FULL BUSINESS DAYS BEFORE BEGINNING ANY EXCAVATION OR DEMOLITION THAT IS NOT BENEATH THE WATERS OF THE STATE, AND NOT LESS THAN 10 FULL BUSINESS DAYS BEFORE BEGINNING ANY EXCAVATION OR DEMOLITION THAT IS BENEATH THE WATERS OF THE STATE. NOTIFICATION RECEIVED BY THE SYSTEM AT ANY TIME OTHER THAN DURING BUSINESS HOURS SHALL BE CONSIDERED TO BE RECEIVED AT THE BEGINNING OF THE NEXT BUSINESS DAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND NOTIFY ANY NON-MEMBER UTILITIES PRIOR TO EXCAVATION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL UTILITIES, ENCOUNTERED DURING THE EXCAVATION OF THE WORK. UNDER NO CIRCUMSTANCES WILL FLORIDA CITY GAS OR THEIR ENGINEER/TECHNICIAN BE HELD RESPONSIBLE OR LIABLE FOR DAMAGES TO OTHER UTILITIES. THE FIELD CONTRACTOR OR CREW SHOULD HAVE "ON HAND" A COPY OF THESE DESIGN PLANS WITH ALL NOTES ATTACHED. ANY DEVIATION FROM THIS DESIGN MUST BE APPROVED BY THE FLORIDA CITY GAS PROJECT COORDINATOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER AND

OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.

- LOCATIONS OF DIRECTIONAL DRILL PIPE ENTRY AND EXIT ARE APPROXIMATE ONLY AND MAY BE ADJUSTED OR LENGTHENED BY DIRECTIONAL DRILL CONTRACTOR TO ACHIEVE REQUIRED DEPTH, FEASIBILITY OF THE DRILL, TO AVOID CONFLICT WITH UNDERGROUND UTILITIES AND TO MAINTAIN VEHICLE TRAFFIC AS BEST AS POSSIBLE, AS APPROVED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
- DURING ALL UNDERGROUND CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE $^{3.}$ APPROPRIATE CLEARANCES FROM ANY EXISTING UTILITIES OR STRUCTURES, AS REQUIRED BY THE PLANS, SPECIFICATIONS, AND UTILITY AUTHORITY. THE CONTRACTOR MUST NOTIFY FLORIDA CITY GAS IMMEDIATELY IF THE APPROPRIATE CLEARANCE IS NOT AVAILABLE.

PERMITS:

- THE OWNER WILL PROVIDE THE SELECTED CONTRACTOR WITH COPIES OF ALL PERMITS RECEIVED FOR THE PROJECT.
- 2. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS, ANY SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS IN COMPLIANCE WITH ALL PERMITTEE ADDENDA.
- WORK TIMES ARE AS SPECIFIED IN THE APPLICABLE 3. CONSTRUCTION PERMITS.
- CONTRACTOR IS RESPONSIBLE FOR THE SEALING AND/OR Δ REMOVAL AND DISPOSAL OF RETIRED PIPE FROM SITE WHERE REQUIRED BY PERMITTING AUTHORITY.
- RESTORATION OF ALL DISTURBANCES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITIONS OR AS OTHERWISE DIRECTED BY THE PERMIT(S).
- 6. ALL CONSTRUCTION RELATED ACTIVITIES IN OR NEAR ANY WATER CROSSING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND ANY ENVIRONMENTAL REQUIREMENTS SPECIFIED IN THE APPLICABLE PERMITS AND/OR EASEMENTS. PARTICULAR CARE SHALL BE TAKEN DURING CONSTRUCTION TO ENSURE THAT THE NORMAL DRAINAGE PATTERNS ARE NOT ALTERED AND TO MINIMIZE THE ATTENDANT SILTATION PROBLEMS.
- THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE ENVIRONMENTAL REGULATIONS, THREATENED AND ENDANGERED SPECIES REGULATIONS. PERMITS. EASEMENTS, AND ANY SPECIFIC ENVIRONMENTAL REQUIREMENTS IN ADDITION TO THE ENVIRONMENTAL **REQUIREMENTS STATED IN THE ATTACHED CONSTRUCTION** PLANS.
- 8. NO HOLES SHALL REMAIN OPEN OVERNIGHT WITHOUT PRIOR APPROVAL FROM THE PERMITTING AUTHORITY.
- ABANDONED PIPES SHALL BE PROPERLY REMOVED OR PLUGGED, AS THEY MAY SERVE AS CONDUITS FOR SUB-SURFACE EROSION WHICH MAY SUBSEQUENTLY LEAD TO EXCESSIVE SETTLEMENT OF OVERLAY STRUCTURE(S).

ROW/PROPERTY:

ANY N.G.V.D. 1929 AND N.A.V.D. 1988 MONUMENT(S) WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE PROJECT CONTRACTOR SHOULD NOTIFY:

GEODEDIC INFORMATION CENTER ATTN: MARK MAINTENANCE SECTION ATTN: K/CG-162 6001 EXECUTIVE BOULEVARD ROCKVILLE, MARYLAND 20852 TELEPHONE NO. (301) 443-8319

BENCHMARK DATA BASE IS NATIONAL GEODETIC VERTICAL DATUM (N.A.V.D.) OF 1988.

ALL PROPERTY CORNERS AND SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED, THE PROJECT ENGINEER AND OWNER SHOULD BE NOTIFIED IMMEDIATELY IN ORDER THAT THE COUNTY MAY HAVE A SURVEYOR REFERENCE SAID POINT PRIOR TO DISTURBANCE. ALSO, ALL GPS CONTROL POINTS ARE TO BE PROTECTED. IF DESTROYED DURING CONSTRUCTION, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE CONTROL POINT(S) AT THEIR EXPENSE.

CONTRACTOR SHALL PROVIDE TEMPORARY RAMP ACROSS DRIVEWAYS AND ROADWAYS TO PROVIDE ACCESS AND MAINTAIN VEHICLE TRAFFIC OVER THE PIPE DURING THE DIRECTIONAL DRILL PROCESS AND TO PROTECT THE PIPE

6.

DURING STAGING AND WELDING, WHEREVER POSSIBLE

CONSTRUCTION/STANDARDS

ALL CONSTRUCTION WORK MUST BE IN COMPLIANCE WITH THE FLORIDA CITY GAS CONSTRUCTION STANDARDS, AND ANY/ALL APPLICABLE JURISDICTIONAL GOVERNMENTAL AGENCY'S STANDARD AND/OR SPECIFICATION.

THE INSTALLATION OF THE GAS MAIN IS TO BE COMPLETED AS IT WAS DESIGNED IN ACCORDANCE WITH THE ATTACHED PLANS. NO CHANGE WILL BE MADE WITHOUT THE PRIOR APPROVAL OF FLORIDA CITY GAS. NO EXCEPTIONS.

CONTRACTOR WILL STRICTLY ADHERE TO ALL STATE, COUNTY, AND LOCAL SAFETY REGULATIONS.

4. CONTRACTOR MAY CHOOSE TO DRILL SHORTER OR LONGER SECTIONS AS NECESSARY TO AVOID CONFLICT WITH ROADWAY TRAFFIC.

5. CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAPPING, STOPPING, CUTTING AND CAPPING FOR THIS PROJECT. NO TAPPING OR STOPPING IS PERMITTED WITHOUT QUALIFIED COMPANY PERSONNEL ON THE JOBSITE TO OVERSEE THE PROCEDURE.

PRIOR TO COMMENCING ANY ROCK DRILLING OR ROCK EXCAVATION (MUD MOTOR, AIR-HAMMER, ETC.) CONTRACTOR MUST REVIEW NEED FOR SUCH EQUIPMENT WITH ON-SITE FLORIDA CITY GAS INSPECTOR AND RECEIVE EXPLICIT PERMISSION BEFORE USE. ANY MODIFICATIONS OF INSTALLATION DEPTH REQUIREMENTS IN ORDER TO MINIMIZE ROCK DRILLING OR ROCK EXCAVATION, MUST BE APPROVED IN ADVANCE BY FLORIDA CITY GAS.

CONTRACTOR SHALL KEEP THE PREMISES, RIGHT-OF-WAY AND ADJACENT PROPERTIES FREE FROM ACCUMULATIONS OF WASTE MATERIALS, RUBBISH AND OTHER DEBRIS RESULTING FROM THE WORK. PROGRESSIVELY, AS THE WORK IS COMPLETED, CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS, RUBBISH, AND DEBRIS FROM THE WORK AREAS AS WELL AS ALL TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL, AND SHALL LEAVE THE SITE CLEAN. CONTRACTOR SHALL KEEP ALL RESTORATION CURRENT WITH PROJECT AND NOT ALLOW THE PREVIOUSLY EXCAVATED AREAS TO GET OUT OF CONTROL.

ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST FDOT, MUNICIPAL, AND FLORIDA CITY GAS SPECIFICATIONS AND STANDARDS, INCLUDING THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS.

CONTRACTOR SHALL MONITOR DOWN HOLE EQUIPMENT POSITION AND DRILLING FLUID CIRCULATION AND PRESSURES DURING ALL DIRECTIONAL DRILLING.

10. CONTRACTOR SHALL MAKE A PRE-CONSTRUCTION VIDEO RECORD OF ALL WORK LOCATIONS.

ENVIRONMENTAL:

CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ANY AND ALL RUBBLE FROM THE REMOVAL OF CURBING, ASPHALT, CONCRETE, SPOILS, EXCESS DIRT AND UNSUITABLE DIRT, ETC. AND SHALL REMOVE IT FROM SITE AND DISPOSED OF IN AN APPROPRIATELY PERMITTED LOCAL LANDFILL OR RECYCLING FACILITY AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL PROVIDE FLORIDA CITY GAS THE SUPPORTING WASTE MANIFEST(S) DOCUMENTATION. IF PETROLEUM CONTAMINATED SOILS OR PETROLEUM CONTAMINATED WATER ARE ENCOUNTERED, EXCAVATION IS TO STOP IMMEDIATELY, AND NOTIFICATION GIVEN TO THE DIVISION MANAGER AND PEOPLES GAS' CORPORATE ENGINEERING SERVICES. FLORIDA CITY GAS WILL ADDRESS THE CONTAMINATED SOILS AND WATER AND BE RESPONSIBLE FOR THE ASSOCIATED COST. THE DIVISION MANAGER WILL PROVIDE DIRECTION REGARDING **RESUMPTION OF THE WORK.**

2. THE CONTRACTOR SHALL ENSURE THAT ALL PERSONS ENGAGED IN WORK ASSOCIATED WITH THE PIPELINE'S CONSTRUCTION ARE INFORMED OF ANY SPECIAL ENVIRONMENTAL CONDITIONS AND CONCERNS AND THAT THOSE PERSONS RECEIVE INSTRUCTIONS REGARDING THE REQUIREMENTS OF ALL SAFETY AND ENVIRONMENTAL LAWS, RULES AND REGULATIONS APPLICABLE TO THE WORK SITE.

CONSTRUCTION EQUIPMENT, VEHICLES, MATERIALS, HAZARDOUS MATERIALS, CHEMICALS, FUELS, LUBRICATING OILS, AND PETROLEUM PRODUCTS WILL NOT BE PARKED, STORED, OR SERVICED WITHIN 100 FEET OF ANY BODIES OF WATER AND WETLANDS.

CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS DESCRIBED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (FLORIDA DEPARTMENT MAINTENANCE OF TRAFFIC: OF ENVIRONMENTAL PROTECTION AND FLORIDA

DEPARTMENT OF TRANSPORTATION, LATEST EDITION), AND THE FLORIDA STORM WATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. NONPOINT SOURCE MANAGEMENT SECTION, TALLAHASSEE, 2. FLORIDA, LATEST EDITION).

- 5. TREES TO BE PRESERVED MIGHT BE LOCATED WITHIN THE CONSTRUCTION ZONE. SPECIAL CARE SHOULD BE EXERCISED WHEN WORKING WITHIN THE DRIP LINE OF ANY TREE TO BE PRESERVED. PROFESSIONAL ROOT PRUNING CAN BE CONSIDERED IF OPEN CUT METHODS ARE UTILIZED. DIRECTIONAL DRILLING IS GENERALLY PREFERRED IN SUCH LOCATIONS.
- 6. CONTRACTOR SHALL MAINTAIN SILT BARRIERS IN REQUIRED AREAS OF CONSTRUCTION. ALL EXCESS DIRT AND DEBRIS SHALL BE REMOVED DAILY TO AREAS APPROVED FOR DISPOSAL
- ADDITIONAL TEMPORARY EROSION/SEDIMENT CONTROLS (NOT CURRENTLY SHOWN ON THE CONSTRUCTION PLAN) MAY BECOME NECESSARY TO MAINTAIN COMPLIANCE WITH STATE OF FLORIDA WATER QUALITY STANDARDS. THEY SHALL BE LOCATED AND INSTALLED IN THE FIELD, UNDER THE SUPERVISION OF THE FLORIDA CITY GAS, OR THEIR DESIGNATED REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE.
- SILT FENCES SHALL BE INSTALLED ALONG LIMITS OF CONSTRUCTION.
- 10. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY IF DAMAGED.
- 11. ALL SIDE SLOPES OF STORM WATER MANAGEMENT AREAS SHALL BE SODDED UPON COMPLETION OF FINAL GRADING.
- 12. ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF ERODED MATERIALS BY INSTALLATION OF TEMPORARY FILTER FABRIC AND/OR HAY BALES.
- 13. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DOWNSTREAM OF CONSTRUCTION ACTIVITIES WHERE PROTECTION AGAINST TURBID WATERS DISCHARGE MAY OCCUR.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NPDES PERMIT PRIOR TO THE START OF CONSTRUCTION.
- 15. CONTRACTOR SHALL VERIFY THAT ONLY NECESSARY ADDITIVES ARE USED IN THE DRILLING SOLUTION SLURRY AND THAT THE ADDITIVES AND THEIR APPLICATION RATES DO NOT EXCEED THE DEFINED ACUTE AND CHRONIC TOXICITY LIMITS DEFINED IN CHAPTER 62-302,200 OF THE FLORIDA ADMINISTRATIVE CODE (F. A. C.)

SAFETY:

- CONTRACTOR IS RESPONSIBLE FOR HOSTING DAILY TAILGATE MEETINGS WHICH INCLUDE A REVIEW OF SAFETY REQUIREMENTS PRIOR TO WORK BEGINNING. CONTRACTOR SHALL COMMUNICATE WORK SITE EMERGENCY RESPONSE (INJURY, COLLISION, ENVIRONMENTAL, NATURAL GAS, ETC.) WHICH SHALL BE ACKNOWLEDGED BY ALL WORKERS AND ALL VISITORS ON SITE.
- CONTRACTOR SHALL CONTAIN AND CLEAN ALL SPILLS OF FUEL OR OTHER PETROLEUM PRODUCTS DURING CONSTRUCTION AS SOON AS POSSIBLE. SPILLS IN EXCESS OF 25 GALLONS SHALL BE REPORTED TO FLORIDA CITY GAS WITHIN 24 HOURS OF OCCURRENCE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE A COMPETENT PERSON ON SITE TO COMPLY WITH SAFE TRENCHING ACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM PROPERTY OWNERS IN AREAS OF NEW CONSTRUCTION OF THE PROPOSED DESIGN PRIOR TO DIGGING ALONG A PRIVATE PROPERTY LINE.

DESIGN

- UNLESS OTHERWISE NOTED, THE PROJECT PLANS HAVE BEEN PREPARED WITHOUT THE BENEFIT OF A PHYSICAL FIELD LOCATION SURVEY OR TITLE SEARCH AND THE QUALITY LEVEL OF UTILITY LOCATES IN THE RIGHTS-OF-WAY AS SHOWN IS LEVEL D (RE: FDOT UTILITY ACCOMMODATION MANUAL).
- 2. SPECIFIC DESIGN REQUIREMENTS FOR STEEL AND POLYETHYLENE GAS MAINS ARE PROVIDED BY FLORIDA CITY GAS.
- 3. ALL POLYETHYLENE (MAIN) PIPE AND FITTINGS SHALL BE BURIED AT A MINIMUM DEPTH OF 36" BELOW EXISTING GRADE, WITH LOCATING WIRE. ALL POLYETHYLENE PIPE SHALL BE JOINED BY HEAT FUSION AND AIR TESTED AT 100 PSI.

1. THE CONTRACTOR SHALL INSTALL STAND MOUNTED

ADVANCE CONSTRUCTION SIGNING IN ACCORDANCE WITH FDOT STANDARD INDEX No. 600 FOR ANY WORK LESS THAN 15 FEET FROM EDGE OF PAVEMENT.

ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 15 FEET FROM THE EDGE OF EXISTING PAVEMENT, OR AS FAR AWAY AS POSSIBLE WITHIN THE R/W LIMITS AND SHALL BE PROTECTED BY TYPE II BARRICADES WITH FLASHING YELLOW LIGHTS.

MOT INDICES SHOWN IN THIS PLAN SET MAY NOT COVER ALL WORK APPLICATIONS ENCOUNTERED FOR THIS EFFORT. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL APPLICABLE FDOT STANDARDS FOR MAINTENANCE OF TRAFFIC ARE FOLLOWED.

ANY LANE CLOSING OR DETOURS REQUIRED WILL BE COORDINATED WITH THE APPROPRIATE TRAFFIC AUTHORITY BY THE CONTRACTOR. TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR

ALL BARRICADES AND MAINTENANCE OF TRAFFIC (MOT) ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE INCLUDED IN THIS BID PACKAGE.

PERMIT(S).

CONTRACTOR WILL ASSURE A SAFE FLOW OF TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE CONSTRUCTION

						FLORIDA CERTIFICATE OF AUTHORITY LICENSE NO. 9631	
FLORIDA CITY CAS							
			NEWFIELD CANAL HDD CROSSING DESIGN	GAS MAIN INSTALLATION	ST LUCIE COUNTY, FLORIDA	NOTES AND LEGEND	
			01/17/25 JMS	08/20/24 JMS	06/21/24 JMS	06/18/24 JMS	DATE APP.
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BACKFILL AND COMPACTION:

1. TRENCH BACKFILL SHALL BE CONSTRUCTED WITH SUITABLE MATERIAL PLACED IN 12 INCH LIFTS. WETTING OR DRYING WILL BE REQUIRED TO OBTAIN PROPER MOISTURE CONTENT AND TAMPED WITH MECHANICAL TAMPER TO OBTAIN REQUIRED COMPACTION. ALL BACKFILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST ONE HUNDRED (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T99 (STANDARD PROCTOR). DENSITY TESTS SHALL BE REQUIRED AT LEAST EACH 12 INCH OF COMPACTED FILL. DENSITY TESTS SHALL BE REQUIRED NOT MORE THAN 500' APART. (SECTION 120 AND 125-8 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2018 EDITION AND ST. LUCIE COUNTY REQUIREMENTS.

CLEAN UP & RESTORATION NOTES

- CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ALL DEBRIS AND SHALL MEET ALL AGENCIES STANDARDS.
- 2. CONTRACTOR SHALL RESTORE ALL ITEMS TO THE EXISTING CONDITIONS OR BETTER. ITEMS INCLUDE BUT NOT LIMITED TO CONCRETE DRIVEWAY, DRIVEWAY APRON, MAIL BOXES, DITCH, CONCRETE SIDEWALK, TREES, LANDSCAPING, UNDERGROUND UTILITIES, ABOVEGROUND UTILITIES, AND GRASS.
- 3. THE DIRECTIONAL DRILL CONTRACTOR SHALL CONTAIN THE DRILLING MUD, BENTONITE CLAY, AND DISPOSE OF THE MATERIAL PROPERLY AS REQUIRED BY ALL STATE AND FEDERAL REGULATIONS. THE CONTRACTOR IS REQUIRED TO IMMEDIATELY SWEEP AND CLEAN UP ANY SPILL ONTO THE ROADWAY OR AREA OUTSIDE OF THE CONTAINMENT AREA.
- 4. ALL DRIVES DAMAGED OR OPEN CUT DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPLACED THE FULL WIDTH OF THE DRIVE FROM THE EDGE OF PAVEMENT TO THE FURTHEST POINT OF DAMAGE. CONCRETE DRIVES SHALL GO TO THE FURTHEST EXISTING CONSTRUCTION JOINT. ALL DRIVES SHALL BE SAW CUT.
- 5. ALL DISTURBED ASPHALT OR CONCRETE, INCLUDING ROADWAYS, PATHS, DRIVES, ETC. SHALL BE RESTORED TO THEIR ORIGINAL DESIGN SPECS OR THE LATEST FDOT/COUNTY REPAIR SPECS, AS APPROPRIATE.
- 6. ALL DISTURBANCES OF RIGHTS-OF-WAY AND PRIVATE PROPERTY, INCLUDING BUT NOT LIMITED TO GRASS, TREES, SHRUBS, PAVED SURFACES, DRAINAGE STRUCTURES, AND MITERED END SECTIONS, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITIONS THAN EXISTED PRIOR TO CONSTRUCTION OF THE GAS FACILITIES. THE FLOW LINE AND SIDE SLOPES OF DRAINAGE SWALES SHALL BE THE SAME AS PRIOR TO CONSTRUCTION.
- 7. THE CONTRACTOR SHALL PROVIDE SEED AND MULCH TO ALL AREAS OF RIGHT-OF-WAY: WHERE APPLICABLE. THAT HAVE BEEN DISTURBED DURING CONSTRUCTION.
- 8. ALL PUBLIC AND PRIVATE LAWN AREAS DISTURBED BY THE CONSTRUCTION SHALL BE SODDED WITH THE SAME TYPE SOD, WHICH EXISTED BEFORE DISTURBANCE. WATERING MAY BE NECESSARY IN ORDER TO ESTABLISH A GOOD STAND • PIPE GRADE: SDR 11.5 OF GRASS. AS ACCEPTED BY FLORIDA CITY GAS ENERGY INSPECTION. RESTORATION WORK THAT IS DISTURBED PRIOR TO ACCEPTANCE SHALL BE CORRECTED WITHIN 24 HOURS OF DISTURBANCE
- 9. ALL REPAIRS OR REPLACEMENTS SHALL BE NEAT, STRAIGHT-LINE LIMITS MADE BY SAW CUTTING THE SURFACE. REPLACEMENT OF CEMENT CONCRETE STREETS, CURBS, DRIVEWAYS AND SIDEWALKS SHALL BE TO THE NEXT JOINT, BEYOND THE DISTURBED AREA. CONTRACTOR SHALL BORE ALL SIDEWALKS, DRIVEWAYS, AND STREETS UNLESS OTHERWISE NOTED ON PLANS. NO SIDEWALK, DRIVEWAY OR STREET SHALL BE OPEN CUT WITHOUT THE PERMISSION OF THE OWNER. REFER TO PROJECT PERMITS OR COUNTY CONSTRUCTION CODE FOR ADDITIONAL RESTORATION REQUIREMENTS.
- 10. NORMAL, GOOD PRACTICE SITE PREPARATION PROCEDURES SHALL BE USED FOR THIS PROJECT. THESE PROCEDURES INCLUDE: STRIPPING THE SITE OF EXISTING VEGETATION AND TOPSOIL, COMPACTING THE SUBGRADE AND PLACING NECESSARY FILL OR BACK FILL TO GRADE WITH ENGINEERED FILL.
- 11. IT IS RECOMMENDED THE TOP OF THE CLAYEY SANDS BE MAINTAINED A MINIMUM OF 2 FEET BELOW THE PROPOSED BOTTOM OF THE BASE MATERIAL OR CONCRETE PAVEMENT. IF THE SITE GRADING IS SUCH THAT THE MINIMUM SEPARATION DOES NOT EXIST, WE RECOMMEND UNDERCUTTING THE CLAYEY MATERIALS TO MAINTAIN THIS SEPARATION AND BACK FILLING WITH CLEAN STRUCTURAL FILL, AS DESCRIBED BELOW.
- 12. TEST THE SUBGRADE FOR COMPACTION AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 10,000 SQUARE FEET.
- 13. CONTRACTOR SHALL OBTAIN RECORD/EVIDENCE OF ALL EXISTING FEATURES VIA VIDEO TAPING OR PHOTOGRAPHS PRIOR TO ANY CONSTRUCTION.

PUBLIC SERVICE COMMISSION NOTES

WRITTEN NOTICE SHALL BE GIVEN BY FLORIDA CITY GAS TO THE FLORIDA PUBLIC SERVICE COMMISSION AT LEAST 15 DAYS PRIOR TO START OF ALL MAJOR CONSTRUCTION OR ALTERATION OF PIPELINE FACILITIES, STATING THE SIZE, APPROXIMATE LOCATION AND CONTEMPLATED TIME OF CONSTRUCTION. NOTICE IS REQUIRED WHEN THE PIPELINE INVOLVED IS BOTH AT LEAST 2 INCHES IN DIAMETER AS WELL AS 2.000 FEET OR MORE IN LENGTH.

CAMERA INSPECTION REQUIREMENT

1. CONTRACTOR IS REQUIRED TO CLEAN SEWER CROSSINGS IF NEEDED AND PRE-CAMERA VIDEO LOCATE ALL GRAVITY SEWER MAINS AND ALL LATERALS PRIOR TO BORING BY H.D.D. OR BY MISSILE OR MOLE. CONTRACTOR IS REQUIRED TO CLEAN SEWER IF NEEDED AND POST-CAMERA VIDEO ALL GRAVITY SEWER MAINS AND ALL LATERALS TO CONFIRM THAT NO GAS LINE HAS DAMAGED, PENETRATED OR CROSS BORED A SEWER FACILITY AFTER THE BORE HAS BEEN COMPLETED AND PRIOR TO THE GAS LINE BEING GASSED. THIS PARAGRAPH SUPERSEDES THE REQUIREMENTS IN THE CONSTRUCTION STANDARDS MANUAL, SECTION 9.7, PARAGRAPH 3 AND 4, LOCATED IN THE ISN BULLETIN BOARD. THE ASSOCIATED COST FOR SEWER CLEANING. PRE-CAMERA, AND POST-CAMERA IS INCLUDED IN THE CONTRACT UNIT PRICE. THE CONTRACTOR DELIVERABLE SHALL INCLUDE AN AFFIDAVIT DOCUMENTING EACH SEWER LATERAL CROSSING BY LATERAL ADDRESS POST-CAMERA INSPECTED.

HORIZONTAL DIRECTIONAL DRILLING (HDD) NOTES:

- THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION SITE TO VERIFY THERE IS SUFFICIENT ROOM FOR THE HDD DRILL RIG AND AUXILIARY EQUIPMENT, VEHICLES, TRAILERS, AT BOTH ENDS OF THE BORE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW). IF TEMPORARY WORK AREAS ARE REQUIRED OUTSIDE OF THE ROW, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM LANDOWNERS OF ALL REAL PROPERTY AFFECTED BY THE CONSTRUCTION.
- 2. THE CONTRACTOR SHALL SPOT ALL EXISTING UTILITIES AT CROSSINGS AND VISUALLY MONITOR THE DRILL HEAD PASSING. A MINIMUM SEPARATION OF 24-INCHES SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES.
- MAXIMUM REAMER SIZE IS 1.5 TIMES PIPE DIAMETER 4. ALL ROAD CROSSINGS TO HAVE A MINIMUM OF 48-INCHES DEPTH OF COVER.
- HDD DRILLING FLUID FOR LUBRICATION AND SOIL STABILIZATION SHALL BE A MIXTURE OF BENTONITE CLAY OR OTHER APPROVED ENVIRONMENTALLY SAFE STABILIZING AGENT MIXED WITH POTABLE WATER WITH A MINIMUM PH OF 6.0.

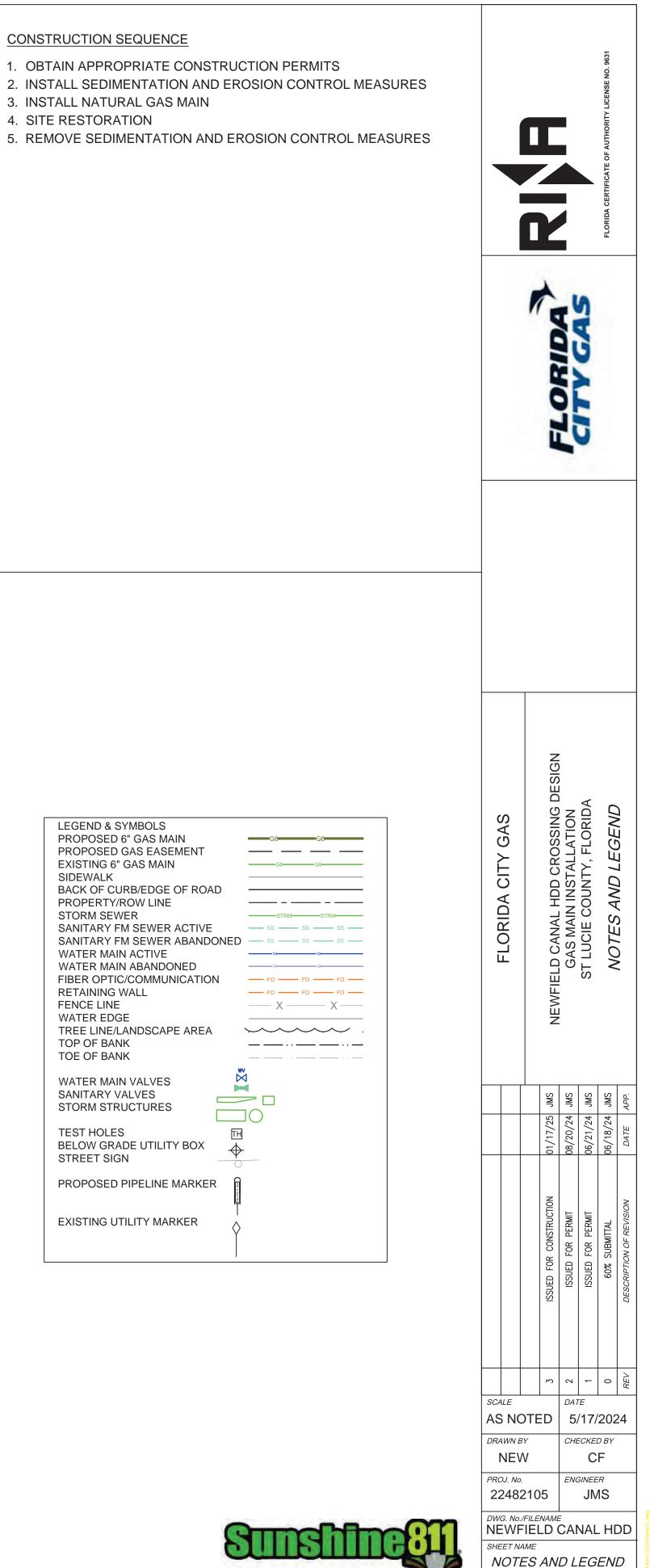
PIPE SPECIFICATIONS:

- PIPE MATERIAL: MEDIUM DENSITY POLYETHYLENE
- PIPE SIZE (INCHES): 6" NPS 6.625" O.D WALL THICKNESS (INCHES): 0.576"
- SYSTEM NOP: 60 PSIG

PIPE TESTING REQUIREMENTS:

- IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO PRESSURE TEST THE INSTALLED STEEL GAS MAINS AND LATERAL SERVICES AND RECEIVE APPROVAL FROM FLORIDA CITY GAS DESIGNATED REPRESENTATIVE PRIOR TO PLACING THE MAIN IN SERVICE ('GASSING UP'). PIPELINES SHALL BE TESTED IN ACCORDANCE WITH 49CFR192 SUBPART J: TEST REQUIREMENTS AND WITNESSED BY THE FLORIDA CITY GAS DESIGNATED REPRESENTATIVE OR INDEPENDENT OBSERVER. TEST RECORDS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING INFORMATION:
- TEST DATE
- WEATHER CONDITIONS
- START AND STOP TIMES AND PRESSURE TEST DURATION TEST PRESSURE, TEST TEMPERATURE AND TEST MEDIUM
- (AIR. NITROGEN, WATER, NATURAL GAS)
- LENGTH AND DIAMETER OF MAIN OR SEGMENT TESTED PIPE MANUFACTURER, MATERIAL TYPE, SOR OR STEEL GRADE AND WALL THICKNESS
- MANUFACTURE DATE AND HEAT NO. OR COIL NO.
- LOCATION OF MAIN OR SEGMENT TESTED (I.E. STREET NAME, END POINTS)
- PASSED OR FAILED THE TEST
- DATED SIGNATURE OF TEST OPERATOR
- DATED SIGNATURE OF FLORIDA CITY GAS DESIGNATED REPRESENTATIVE AND/OR INDEPENDENT OBSERVER
- WHEN A TEST CHART IS USED. THE ABOVE INFORMATION SHALL BE RECORDED IN INK ON THE REVERSE SIDE OF THE CHART. THE ORIGINAL RECORD DOCUMENT SHALL BE SUBMITTED TO THE FLORIDA CITY GAS DESIGNATED

REPRESENTATIVE OR INDEPENDENT OBSERVER IN A TIMELY MANNER (WITHIN 24 HOURS) BUT BEFORE THE SUBJECT MAIN. SEGMENT OR LATERAL SERVICE IS PLACED INTO SERVICE ('GASSED UP')



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SHEET No

C-102

QUANTITIES						
TEM	DESCRIPTION	UNIT	PLAN	FINAL		
1	6 INCH MDPE 2708 GAS PIPE IPS 500 FT ROLL SDR 11.5 ASTM-D2513	EA	4			
2	ELBOW 6 INCH PE IPS MDPE 2708 BF 90 DEG SDR 11.5 BF	EA	1			
3	6 INCH MDPE 2708 CAP IPS SDR 11.5 BF (TEMPORARY USE UNTIL TIE-INS ARE COMPLETE)	EA	2			
4	#12 YLW CU PE 30 SOLID TRACER WIRE 500FT SPOOL	EA	4			
5	POST TRACER WIRE LOCATING -VISA POST PREWIRED MARKER	EA	6			
6	PIPE 10 STEEL 0.365" W.T. CS ERW API5L GR X42 PIPE ENDS BEV DRL 42 FT, COATED WITH MIN OF 13 MIL EPOXY COAT (CASING PIPE)	FT	1480			
7	SEAL LINK CASING END SERIES LS-300-C FOR CASING PIPE 6" COATED STEEL PIPE ENCASED IN 10 IN STEEL CASING	EA	2			
8	17LB STUART MAGNESIUM HI POTENTIAL GROUND ANODE PACKAGED W/10FT #12 BLK LE (SEE MATERIAL NOTE 1)	EA	40			
9	VALVE, BALL, 6" PLASTIC IPS PE 2708 76 PSIG SDR 11 SQUARE 2 INCH	EA	2			
10	10" DIA VALVE BOX WITH LID NON-PAVEMENT LOCATION	EA	2			

MATERIAL NOTES"

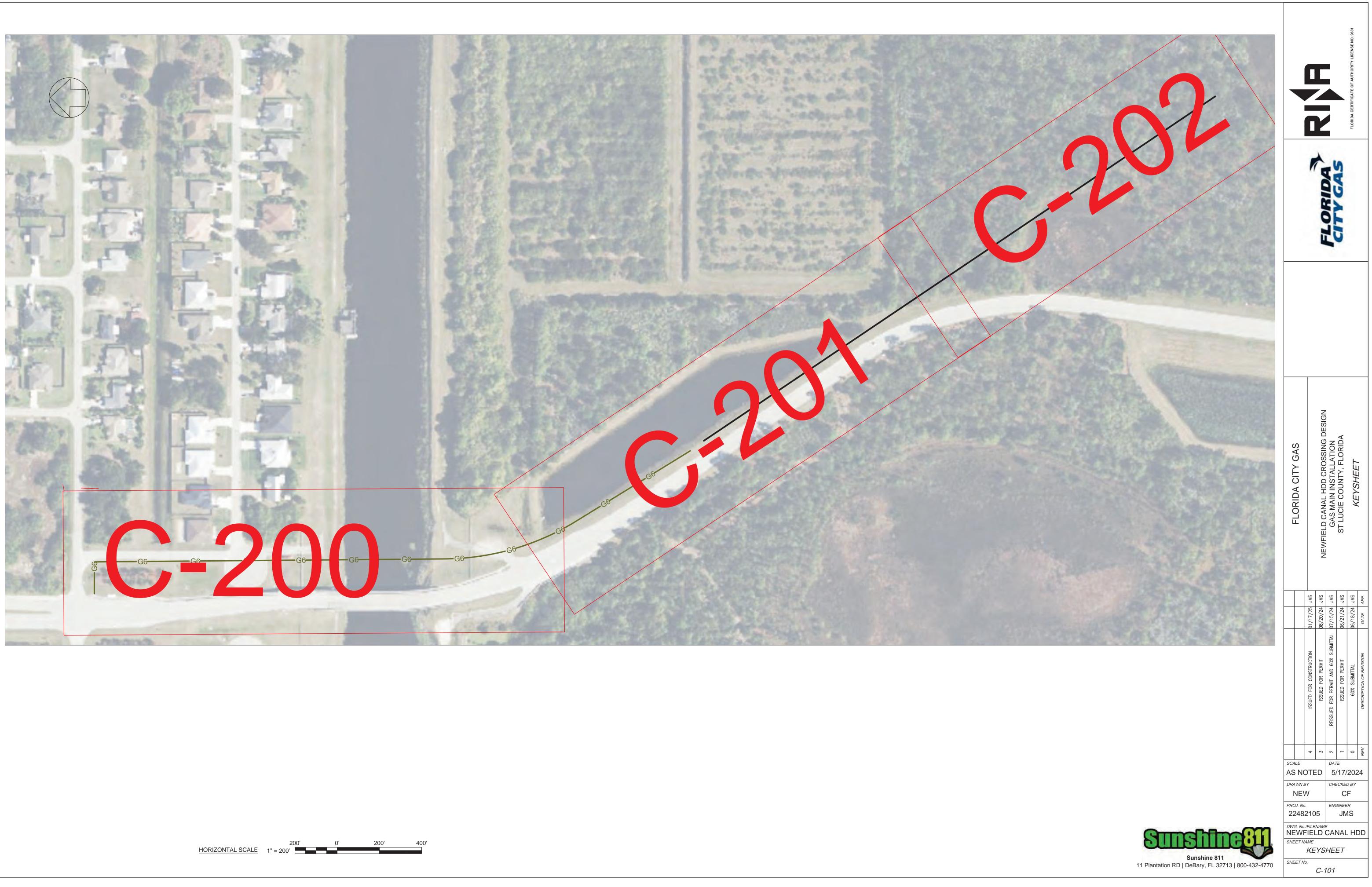
- 1. GROUND ANODES ARE REQUIRED IF THE CASING IS TO BE PLACED
- UNDER CATHODIC PROTECTION.
 2. CASING SPACERS ARE NOT REQUIRED, BUT CAN BE USED IF DESIRED.

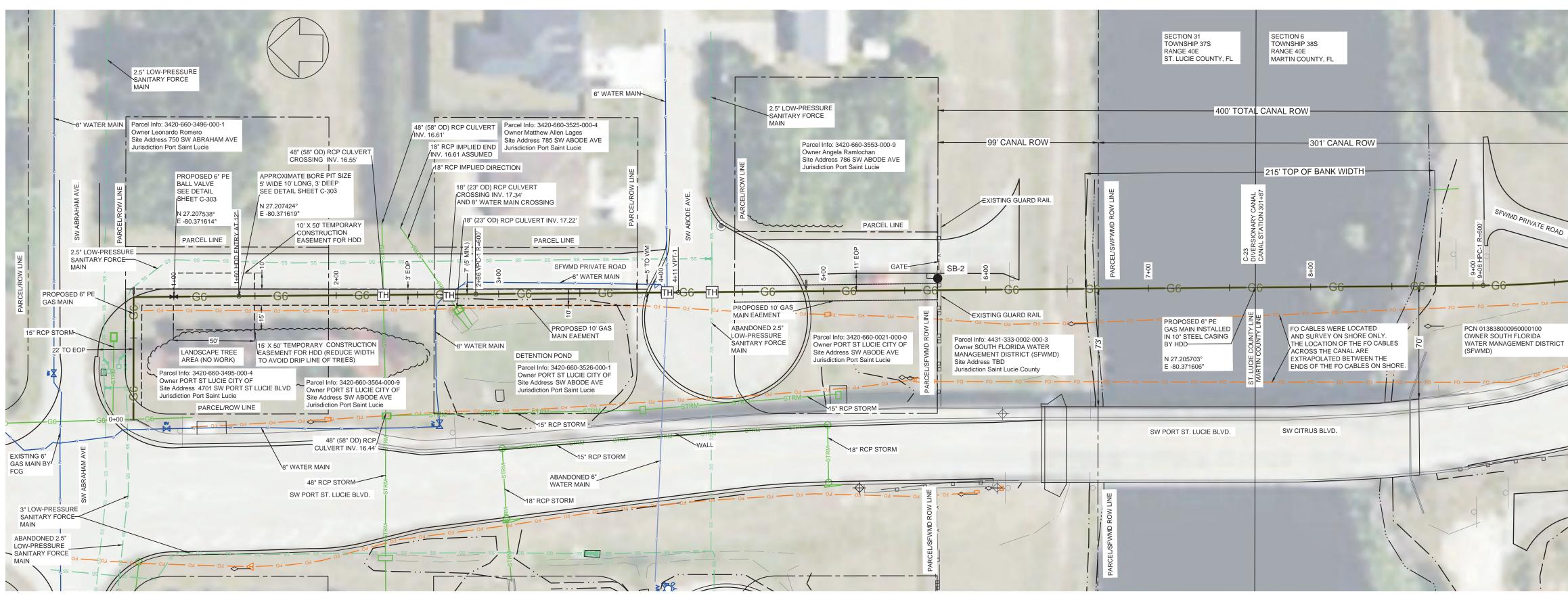
	WORK QUANTITIES			1
	DECONDION			
ITEM	DESCRIPTION	UNIT	PLAN	FINAL
100	MAIN INSTALL, 6-INCH MDPE	FT	1,550	
101	10" CASING STEEL	FT	1400	
102	PE BALL BALL VALVE W" 10" VALVE BOX AND LID	EA	2	
103	TRACING WIRE MARKER POSTS INSTALL W/ TRACING WIRE	EA	6	

			NEWFIELD CANAL HDD CROSSING DESIGN	GAS MAIN INSTALLATION	ST LUCIE COUNTY, FLORIDA	OUANTITIES			
	01/17/25 JMS	10/02/24 JMS	08/20/24 JMS	07/15/24 JMS	06/21/24 JMS	06/18/24 JMS	DATE APP.		
	ISSUED FOR CONSTRUCTION	REISSUED FOR PERMIT	ISSUED FOR PERMIT	REISSUED FOR PERMIT AND 60% SUBMITTAL 07/15/24 JMS	ISSUED FOR PERMIT	60% SUBMITTAL	DESCRIPTION OF REVISION		
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MAOP PE | 60 PSIG

ALL APPLICABLE UTILITIES THAT WERE IDENTIFIED THROUGH AN 811 TICKET WERE CONTACTED VIA EMAIL AND/OR PHONE REQUESTING UTILITY LOCATION INFORMATION.

ALL UTILITIES THAT WERE CONTACTED, PROVIDED INFORMATION ON THEIR UTILITIES IN THE AREA, EXCEPT FOR MARTIN COUNTY.

THE SURVEYOR, SURVEYED UTILITIES MARKED BY THE UTILITIES IN THE PREPARATION OF THESE DRAWINGS, EXCEPT FOR THE HDD PIPE STRINGING AREA, WHICH WAS NOT SURVEYED. ABANDONED FACILITIES MAY NOT HAVE BEEN MARKED OR SURVEYED, AND WERE ADDED FROM DRAWING PROVIDED BY THE UTILITY OWNERS.

CONTRACTOR IS NOT EXEMPT FROM VERIFYING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND MUST REQUEST UTILITY LOCATES TO BE COMPLETED PRIOR TO DIGGING PER LAW. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL UTILITIES HAVE BEEN MARKED. IF THEY HAVE NOT BEEN MARKED AS REQUIRED BY LAW, THE CONTRACTOR SHALL CONTACT THE UTILITY TO MAKE SURE THAT THESE UTILITIES HAVE BEEN MARKED PRIOR TO DIGGING. ANY ADDITIONAL UTILITIES THAT ARE LOCATED PRIOR TO CONSTRUCTION THAT ARE NOT FOUND ON THESE DRAWINGS, AND MAY POSE DESIGN ISSUES WITH THIS GAS MAIN, SHALL BE REPORTED TO FCG AND ENGINEER PRIOR TO STARTING WORK.

A MINIMUM OF 5' HORIZONTAL AND 18" VERTICAL SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING PORT ST. LUCIE UTILITIES INCLUDING WATER METERS AND SERVICES.

White = Proposed Excavation

Pink = Temporary Survey Markings

Red = Electric Power Lines, Cables, Conduit and Lighting Cables

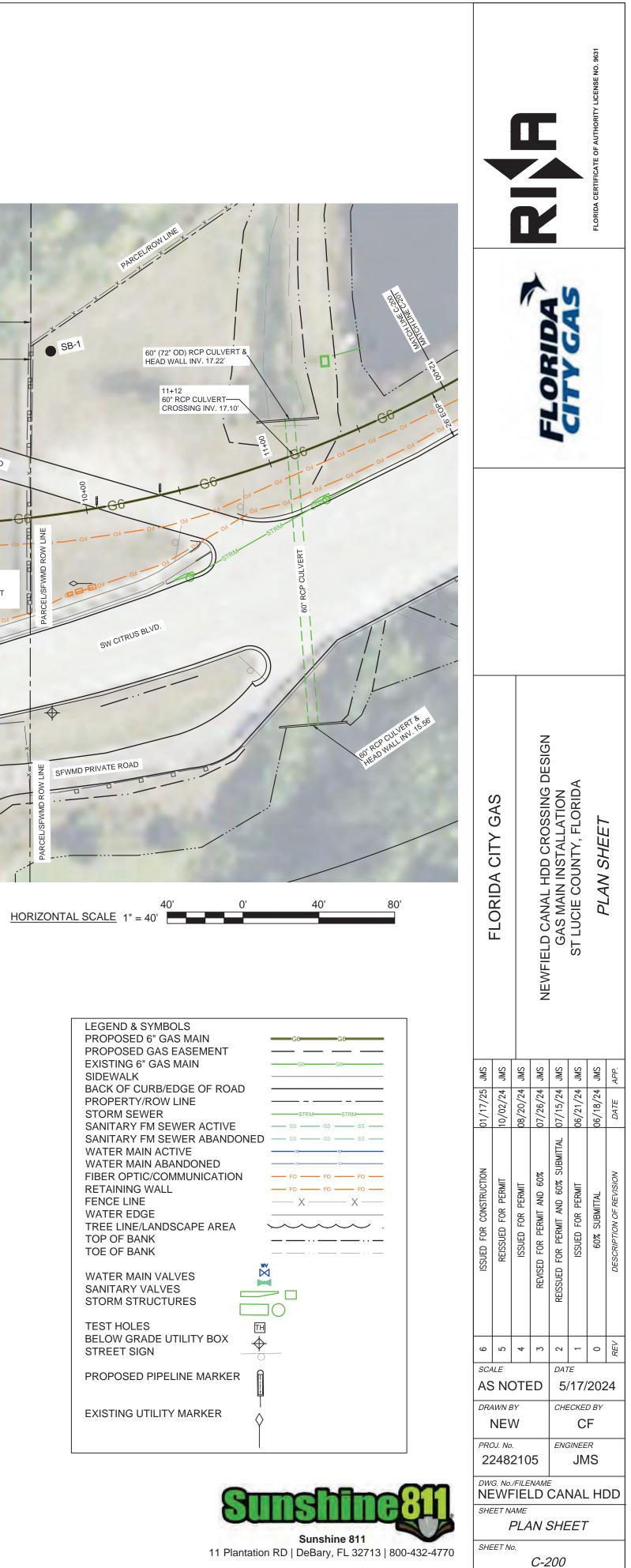
Yellow = Gas, Oil, Steam, Petroleum or Gaseous Materials

Orange = Communication, Alarm or Signal Lines, Cables or Conduit

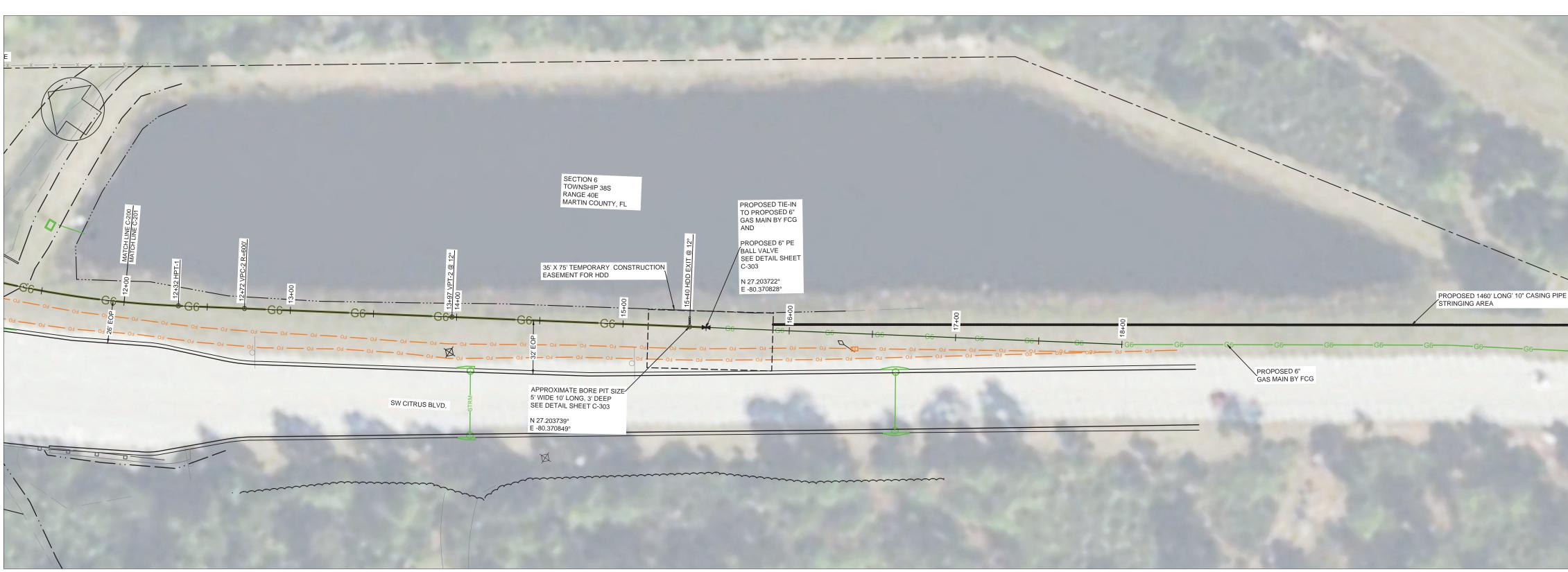
Blue = Potable Water

Purple = Reclaimed Water, Irrigation and Slurry Lines

Green = Sewer and Drain Lines



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Green = Sewer and Drain Lines

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Sunshine 811

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BEST MANAGEMENT PRACTICES

HE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25, F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 40D-4. F.A.C. AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) DOCUMENT NO. EPA 832/R-92-005 (SEPTEMBER 1992). THE PLAN ADDRESSES THE FOLLOWING:

- A. PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.
- B. SEDIMENTATION PROTECTION OF STORM SEWER OR RECEIVING STREAM.
- C. PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. CONTRACTOR SHALL PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENT AND OBTAIN THE NPDES PERMIT. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE PROJECT LUMP SUM COST.

GENERAL EROSION CONTROL NOTES:

A. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THESE EROSION CONTROL DRAWINGS, THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY CONTRACTOR) AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

- B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) IN ALL CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- 1. FUEL SPILLS AND LEAKS PREVENTION
- 2. PREVENT/REDUCE VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING 3. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR
- 4. PROPER OUTDOOR LOADING/UNLOADING OF MATERIALS 5. PREVENT/REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND
- BY-PRODUCTS
- 6. SOLID WASTE MANAGEMENT 7. HAZARDOUS WASTE MANAGEMENT
- 8. CONCRETE WASTE MANAGEMENT
- 9. SANDBLASTING WASTE MANAGEMENT
- 10. STRUCTURE CONSTRUCTION AND PAINTING
- 11. SPILL PREVENTION AND CONTROL 12. CONTAMINATED SOIL MANAGEMENT
- 13. SANITARY/SEPTIC WASTE MANAGEMENT
- 14. SOIL EROSION CONTROL
- 15. STORM WATER TURBIDITY MANAGEMENT

ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

- D. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE, CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS, CONTRACTOR MUST MAINTAIN ALL PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS ON SITE AT ALL TIMES.
- CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- G. CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING THOSE PORTIONS OF THE SITE NECESSARY TO IMPLEMENT PERIMETER CONTROL MEASURES. CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE PROPOSED SITE SHALL COMMENCE ONCE PERIMETER CONTROLS ARE IN PLACE. PERIMETER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL SAID AREAS HAVE BEEN STABILIZED AND SHALL BE REMOVED ONCE FINAL STABILIZATION IS COMPLETE.
- H. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL LAKE SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.
- ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.

STORM WATER EROSION CONTROL PRACTICES:

LOCATION

- A. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- B. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- C. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (COMPOST SOCK DEVICES, ETC.) TO PREVENT EROSION.
- D. WHERE PRACTICAL STORM WATER SHALL BE CONVEYED BY SWALES.
- EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
- 1. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UP STREAM
- 2. STORM WATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.
- 3. WHEN NEEDED A TEMPORARY SEDIMENT TRAP SHOULD BE CONSTRUCTED TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS.
- F. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.
- G. SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL, AS **APPLICABLE**

- H. SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND All INLETS. SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.
- I. WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED.
- J. FILTER FABRIC SHOULD BE USED FOR STORM DRAIN INLET PROTECTION BEFORE FINAL STABILIZATION.

WIND EROSION CONTROL PRACTICES:

- A. WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:
- 1. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
- 2. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABILIZATION PRACTICES FOR DETAILS). THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN. CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUNDCOVER (SEE TEMPORARY STABILIZATION PRACTICES FOR DETAILS).
- 3. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS SHOULD INCLUDE ERECTION OF DUST CONTROL FENCES. A 6-FT GEOTEXTILE FILTER FIBER SHOULD BE HANGING AGAINST THE EXISTING CHAIN LINK FENCE AND GATE.
- B. ALL DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

STABILIZATION PRACTICES

SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621.300(4)(a)

SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621.300(4)(a)

WASTE DISPOSAL

- A. WASTE MATERIALS ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE, THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.
- B. HAZARDOUS WASTE HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.
- C. SANITARY WASTE SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.
- D. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

OFFSITE TRACKING:

MAINTENANCE

- A. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD. DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. AII TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPAULIN.
- B. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA. EMPLOYEE PARKING AREA. AND AREA FOR LOCATION PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES, HEAVY CONSTRUCTION FOUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORM WATER COLLECTION AND TREATMENT SYSTEMS, CONTRACTORS SHALL PROVIDE BROAD DIKES. HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.
- C. AII WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC. SHALL BE DETAINED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.
- D. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- E. AII MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

AII MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. AII EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- A. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- B. AII SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
- C. THE COMPOST SOCK FILTRATION DEVICE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF DEVICE. COMPOST SOCK SHALL BE REPAIRED TO ITS ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE COMPOST SOCK WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE COMPOST SOCK.
- D. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY, THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- E. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION

(SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

- F. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 10% AND AFTER CONSTRUCTION IS COMPLETE.
- G. All MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION. DIVERSION DIKES SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.
- H. A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS, THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED. THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.
- I. ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.
- J. THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.
- K. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

SPILL PREVENTION AND CONTROL

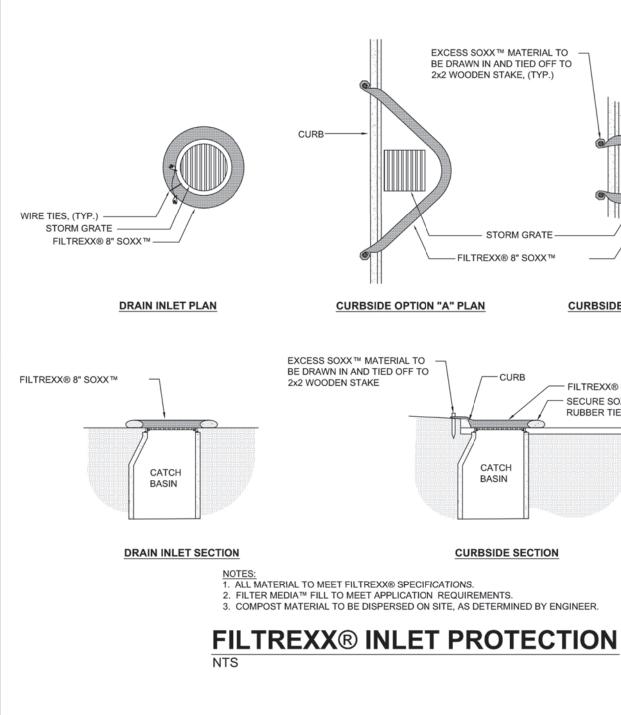
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

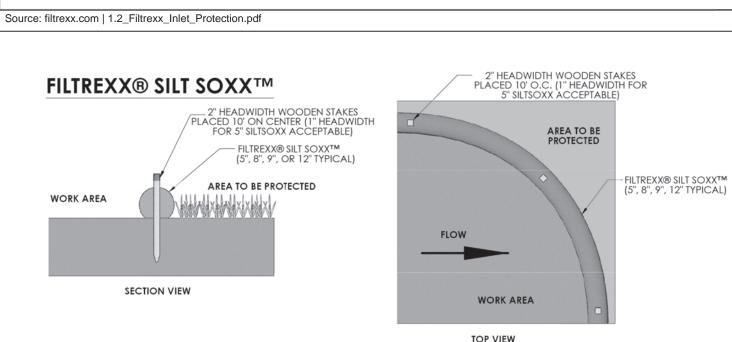
- A. GOOD HOUSEKEEPING
- 1. SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
- 2. STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
- 3. ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER. 4. ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER
- CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
- 5. PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER. 6. ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- B. HAZARDOUS PRODUCTS
- 1. MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
- 2. PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.
- C. PRODUCT SPECIFIC PRACTICES
- 1. PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED, VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.
- 2. THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE
- TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. 3. PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
- 4. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CLEAN U

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ABOVE, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- A. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
- B. THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.
- C. Sufficient OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ONSITE AND READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- D. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
- E. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.
- F. TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.
- G. AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.
- H. THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANU P PROCEDURES.





FILTREXX ® SEDIMENT CONTROL

Source: filtrexx.com | 1.1_Filtrexx_Sediment_Control.pdf

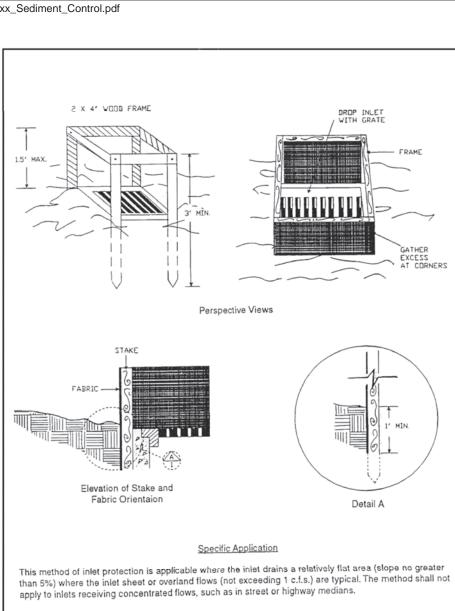


Figure 3.5b. Filter fabric drop inlet sediment filter Source: North Carolina Erosion and Sediment Control Manual

Source: Florida Stormwater Erosion and Sedimentation Control Inspectors Manual Florida Department of Environmental Protection July 2018



- CURE - STORM GRATE – FILTREXX® 8" SOXX™ CURBSIDE OPTION "B" PLAN FILTREXX® 8" SOXX™ SECURE SOXX ™ TO GRATE WITH RUBBER TIE DOWNS CATCH BASIN CURBSIDE SECTION

2x2 WOODEN STAKE, (TYP.)

Sunshine 811
11 Plantation RD DeBary, FL 32713 800-432-4770

			CITY CAS	FLORIDA CERTIFICATE OF AUTHORITY LICENSE NO. 9631	
FLORIDA CITY GAS	NEWFIELD CANAL HDD CROSSING DESIGN	GAS MAIN INSTALLATION	ST LUCIE COUNTY, FLORIDA	EROSION CONTROL DETAILS	
	01/17/25 JMS	08/20/24 JMS	06/21/24 JMS	06/18/24 JMS	DATE APP.
	ISSUED FOR CONSTRUCTION 01	ISSUED FOR PERMIT	ISSUED FOR PERMIT	60% SUBMITTAL	DESCRIPTION OF REVISION
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MINIMUM PIPE RADIUS Fusion joints should not be located in the bend section if possible. When such a condition is unavoidable, the minimum bend radius shall be as shown below.

Pipe Size	Minimum Pipe Bend Radius				
5/8 inch	12 inches				
3/4 inch	21 inches				
1 1/4 inch	33 inches				
2 inch	48 inches				
4 inch	90 inches				
6 inch	135 inches				
8 inch	175 inches				

Pipe Size	Minimum Pipe Bend Radius					
5/8 inch	7 feet					
3/4 inch	11 feet					
1 1/4 inch	18 feet					
2 inch	25 feet					
4 inch	47 feet					
6 inch	70 feet					
8 inch	90 feet					

Source: Florida City Gas Operations Procedure Manual | Last revision July 1, 2019

TABLE 3	.7.7-1 : WE	AK LIN	K CHAF	RT - PL	ASTIC	2	PIF	PE				
To Pull	1/2" SDR 7(b)	3/4" SDR 11(b)	1" SDR 11.5	1 1/4" SDR 10	2" SDR 11	4" SDR 11.5	4" SDR 13.5	6" SDR 11.5	6" SDR 13.5	8" SDR 11.5	8" SDR 13.5	12" SDR 13.5
Use (max)	1/2" (SDR 7)	1/2" (SDR 7)	1/2" (SDR 7)	3/4" (SDR 11)	1 1/4" (SDR 10)	2"/3" (SDR 11/SDR 11.5)(c))	2" (SDR 11)	4" (SDR 11.5/SDR 13.5)	4" (SDR 11.5/SDR 13.5))	6" (SDR 11.5/SDR 13.5)	4"/6" (SDR 13.5, SDR 11.5/SDR 13.5)(f)	8 (SDR 13.5)
ALT (lbs.)(a)	159	298	331	810	1,523	5,253	4,538	11,385	9,836	19,297	16,670	36,429
Link Yield (lbs.)	Holes	262	262	491	1,337	2,506/5,19 4 (c)	2,506	7,384/8,5 76 (d)	7,384/8,57 6 (d)	15,962/18,5 25 (c)	8,576/15,9 62 (f)	27,001

a. ALT = Allowable Tensile Load (Maximum allowable load on pipe being pulled)

b. For pipe sized 3/4" and below, the use of a Company-approved mechanical weak link device is preferred. However, holes may be drilled into the pipe as outlined in TABLE: 3.7.5-2 below.

c. 3" plastic pipe is not normally purchased or stocked by the Company. These calculations for 3", SDR 11.5, PE 2708, MDPE ONLY.

d. Either 4" SDR 11.5 or 4" SDR 13.5, PE 2708, MDPE may be used as the weak link.

e. Either 6" SDR 11.5 or 6" SDR 13.5, PE 2708, MDPE may be used as the weak link.

f. For the weak link, pipe up to 4" SDR 11.5, PE 2708 may be used. ONLY 6" SDR 13.5, PE 2708 MDPE may be used for 8" SDR 13.5 pipe.

g. Notes: Consider weak link failed once pipe has reached yield. Stop pullback when weak link begins to stretch. DO NOT continue pullback to link breakage. Valid for standard AGL Resources MDPE pipe ONLY.

Source: Florida City Gas Operations Procedure Manual | Last revision July 1, 2019

TABLE 3.	ABLE 3.7.5-4 : SAFE PULL STRENCTH FOR TYPICAL PLASTIC PIPE PE2708										
		SDR 13.5		SDR 11.5		SDR 11		SDR 10		SDR 9	
Pipe Size (in)	Nominal OD (in)	Min. Wall (in)	Safe Pull (lbs)	Min. Wall (in)	Safe Pull (lbs)	Min. Wall (in)	Safe Pull (lbs)	Min. Wall (in)	Safe Pull (lbs)	Min. Wall (in)	Safe Pull (Ibs)
1"	1.315					.12	467			.146	558
1 1/4"	1.660					.151	744	0.1660	811	.184	889
2"	2.375					.216	1,524			.264	1,821
4"	4.5	.333	4,539	.391	5,254	.409	5,470			.5	6,536
6"	6.625	.491	9,838	.576	11,389	.602	11,855			.736	14,167
8"	8.625	.639	16,675	.75	19,303	.784	20,093			.958	24,012
10"	10.75	.796	25,904	.935	29,986	.997	31,213			1.194	37,302
12"	12.75	.944	36,439	1.109	42,182	1.275	43,908			1.417	52,473

Typical Tensile Yield = 2600 PSIG @ 73 Degrees Fahrenheit

Based on tensile load duration of 1 hour or less. For load durations between 1 and 12 hours, reduce table values by 5%. For load durations between 12 and 24 hours, reduce table values by 9%.

This table is intended to be a guide and actual calculations should be used using the calculation for allowable tensile load (ATL).

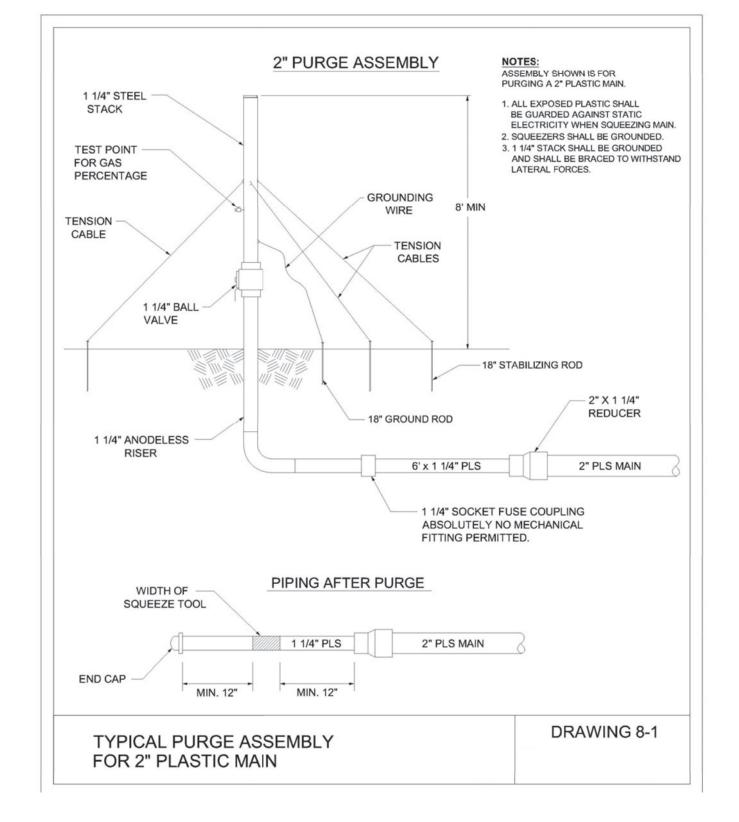
Source: Florida City Gas Operations Procedure Manual | Last revision July 1, 2019

TEST DURATIONS FOR TRANSMISSION LINES, MAINS AND SERV

MINIMUM HOURS FOR TEST DURATIONS ^a								
Pipe Size	0' to 500'	501' to 1,000'	1,001' to 2,500'	Greater Than 2,501'				
Less Than 2" ^b	10 min.	30 min.	1	2				
2"	1	2	4	12				
4"	1	2	4	12				
6"	2	4	8	24				
8"	2	4	8	24				
Greater Than 8"	6	12	24	24				

- a. For steel pipelines to operate at a hoop stress of 30 percent or more of SMYS, the strength test must be conducted by maintaining the pressure at or above the test pressure for at least 8 hours. However, for fabricated units and short sections of pipe, for which a post installation test is impractical, a pre installation strength test must be conducted by maintaining the pressure for at least 4 hours.
- b. Except for service lines and plastic pipelines, each segment of a pipeline that is to be operated at a hoop stress less than 30 percent of SMYS and at or above 100 PSIG must be maintained at or above the test pressure for at least 1 hour.

Source: Florida City Gas Operations Procedure Manual | Last revision July 1, 2019



DIVISION	SECTION	PAGE	DATE ISSUED	
Ш	8	8	August 2, 2011	PURGING

Source: Florida City Gas Operations Procedure Manual Last revision July 1, 2019

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					FLORIDA CERTIFICATE OF AUTHORITY LICENSE NO. 9631		
	*						
FLORIDA CITY GAS		NEWFIELD CANAL HDD CROSSING DESIGN	Gas main installation ST LUCIE COUNTY, FLORIDA MISCELLANEOUS DETAILS				
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	/ 21/ 10	//1/10	08/20/	06/21/	06/18/	DATE	
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TABLE 6.1 JOINING										
PROCEDURES FOR		Approval Status								
PLASTIC PIPE	PE 2406 / PE 2708 Plastic Pipes				6 and Other H tage Plastic Pi		Aldyl-A and Other Medium Density Vintage Plastic Pipes			
Item	Heat Fusion	Mechanical Connection	Electrofu- sion	Heat Fusion	Mechanical Connection	Electrofu- sion	Heat Fusion	Mechanical Connection	Electrofu sion	
Service Tees, Branch Saddles, and High Volume Tapping Tees										
Connection to 1 1/4" Plastic Main	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferre	
Connection to 2" through 4" Plastic Main	Preferred ^d	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferre	
Connection to 6" and Larger Plastic Main	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferre	
All Service Line Connections - New and Existing (in line, repair, and connections to risers and tees)										
5/8" (1/2" CTS) through 1 1/2" Services	Preferred ^d	Preferred ^b	Preferred			Prohibited	Acceptable	Preferre		
2" Services	Preferred ^d	Preferred ^b	Preferred	– Not Applicable ^a			Prohibited	Acceptable	Preferre	
>2" Services	Preferred	Preferred ^b	Preferred				Prohibited	Acceptable	Preferre	
New Main Connections (new pipe to new pipe)										
1 1/4" Plastic Main	Preferred	Acceptable	Preferred							
2" Plastic Main	Preferred	Acceptable	Preferred							
4" Plastic Main	Preferred	Acceptable	Preferred		Not Applicable)		Not Applicable)	
6" Plastic Main	Preferred	Acceptable	Preferred							
8" Plastic Main	Preferred	Acceptable	Preferred							
12" Plastic Main	Preferred	Acceptable	Preferred							
Main Final Tie-Ins (Including new main tying into existing main and new main tying to new main in confined spaces)										
1 1/4" Plastic Main	Preferred ^{c,d}	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferre	
2" Plastic Main	Preferred ^{c,d}	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferre	
3" Plastic Main	Prohibited	Acceptable	Preferred		Not Applicable)	Prohibited	Acceptable	Preferre	
4" Plastic Main	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferre	
6" Plastic Main	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferre	
8" Plastic Main	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferre	
12" Plastic Main	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferred	Prohibited	Acceptable	Preferr	

a. If any HDPE 3306 or other vintage high density plastic pipe was installed for larger services (2" and larger), refer to the "Main Final Tie-Ins" section below. If an 1 1/4" or less vintage high density plastic pipe is found to be in service, consult Engineering Design for recommended tie-in procedure. b. Mechanical connections are only preferred for repair and connections on existing services. All other mechanical plastic pipe connections are classified as acceptable.

c. Allowed only if using a socket fusion coupling.

d. Nicor Gas does not allow saddle fusion or socket fusion.

Source: Florida City Gas Operations Procedure Manual | Last revision July 1, 2019

TABLE 6.3-6 SADDLE FUSION - HEATING/COOLING TIMES

	SADDLE FUSION RECOMMENDED HEATING & COOLING TIMES										
PIPE SIZE	Approx. Melt Bead Size	Approx. Fusion Bead Size	Heating Time	HOLD TIME ^a / CLAMP REMOVAL TIME		COOLING TIME FOR ROUGH HANDLING ^b	TOTAL COOLING TIME				
	Standard Tapping Tees and Service Saddles										
2"	1/16"	1/8"	25 - 35 Sec.	10 Min.		30 Min.	40 Min.				
3"	1/16"	1/8"	40 - 45 Sec.	10 Min.		30 Min.	40 Min.				
4"	1/16"	1/8"	40 - 45 Sec.	10 Min.		30 Min.	40 Min.				
	High Volume Tapping Tees Saddle and Branch Saddles										
2"	1/16"	1/8"	25 - 35 Sec.	10 Min.		30 Min.	40 Min.				
3"	1/16"	1/8"	60 - 70 Sec.	10 Min.		30 Min.	40 Min.				
4"	1/16"	1/8"	70 - 80 Sec.	10 Min.		30 Min.	40 Min.				
				Branch Saddle							
2" x 2"	1/16"	1/8"	25 - 35 Sec.	10 Min.		30 Min.	40 Min.				
4" x 2"	1/16"	1/8"	70 - 80 Sec.	10 Min.		30 Min.	40 Min.				
4" x 4"	1/16"	1/8"	150 - 160 Sec.	10 Min.		30 Min.	40 Min.				

a. Minimum time joint must be held firmly in place. Equipment may be removed at this time.

b. Minimum time required after removing the joint from the fusion equipment before testing or subjecting the joint to bending, burying, pressure testing, or similar handling and backfill stresses.

Source: Florida City Gas Operations Procedure Manual | Last revision July 1, 2019

TABLE 6.1 JOINING PROCEDURES FOR PLASTIC PIPE

TABLE 6.3-2

SOCK	SOCKET FUSION: RECOMMENDED HEATING & COOLING TIMES								
PIPE SIZE ^a	HEATING TIME ^b	HOLD TIME ^c	COOLING TIME ^d	COOLING TIME FOR ROUGH HANDLING ^e	TOTAL COOLING TIME				
1/2" CTS (5/8" O.D.)	6 - 7 Sec.	<u> 30 Sec.</u>	3 Min.	10 Min.	13 Min. 30 Sec.				
3/4" CTS (7/8" O.D.)	6 - 7 Sec.	<u> 30 Sec.</u>	3 Min.	10 Min.	13 Min. 30 Sec.				
1" CTS (1 1/8" O.D.)	9 - 10 Sec.	<u> 30 Sec.</u>	3 Min.	10 Min.	13 Min. 30 Sec.				
3/4" IPS	8 - 10 Sec.	<u> 30 Sec.</u>	3 Min.	10 Min.	13 Min. 30 Sec.				
1" IPS	10 - 12 Sec.	<u> 30 Sec.</u>	3 Min.	10 Min.	13 Min. 30 Sec.				
1 1/4" IPS	12 - 14 Sec.	<u>45 Sec.</u>	3 Min.	10 Min.	13 Min. 45 Sec.				
1 1/2" IPS	14 - 17 Sec.	<u>45 Sec.</u>	3 Min.	10 Min.	13 Min. 45 Sec.				
2" IPS	16 - 19 Sec.	<u>45 Sec.</u>	3 Min.	10 Min.	13 Min. 45 Sec.				

a. Pipe sizes 4" and larger are normally joined by the butt fusion method.

b. Heating times are for ideal conditions at temperatures ranging from 55° F - 85° F and no wind. Adjustments should be made as ambient temperatures and wind conditions change. The upper range on the heating time should be used when fusing in temperatures below 55° F and the lower range used in temperatures above 85° F.

c. Minimum time joint must be held firmly in place.

d. Minimum time required before removing the fused joint from the equipment. Light handling and making an additional fusion on the same fitting may be performed after this cooling period. e. Minimum time required after removing the joint from the fusion equipment before testing or subjecting the joint to bending, burying, pressure testing, or similar handling and backfill stresses.

Source: Florida City Gas Operations Procedure Manual | Last revision July 1, 2019

TABLE 6.1 JOINING PROCEDURES FOR PLASTIC PIPE

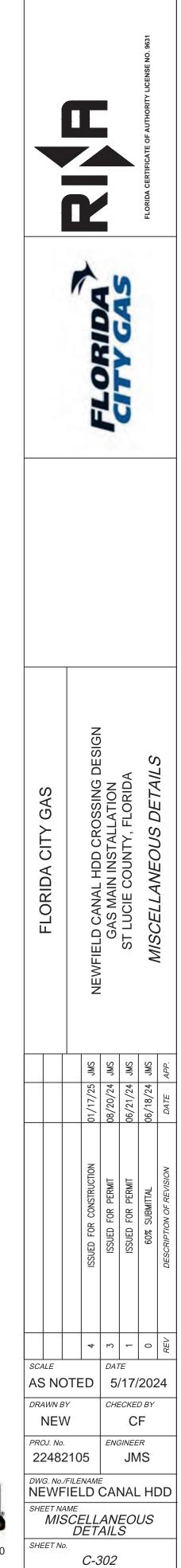
PIPE SIZE	Approx. Melt Bead Size	Approx. Fusion Bead Size	HEATING TIME (440° F ± 10° F) ^a	COOLING TIME ^{b,d}	COOLING TIME FOR ROUGH HANDLING ^{c,d}
1/2" CTS (5/8" O.D)	1/32"	1/16"	12 - 14 Sec.	5 Min.	10 Min.
3/4" CTS (7/8" O.D.)	1/32"	1/16"	14 - 17 Sec.	5 Min.	10 Min.
1" CTS	1/32"	1/16"	16 - 19 Sec.	5 Min.	10 Min.
3/4" IPS	1/32"	1/16"	16 - 19 Sec.	5 Min.	10 Min.
1" IPS	1/32"	1/16"	18 - 22 Sec.	5 Min.	10 Min.
1 1/4" IPS	1/32"	1/16"	25 - 30 Sec.	5 Min.	30 Min.
2" IPS	1/16"	1/8"	40 - 48 Sec.	5 Min.	30 Min.
4" IPS	3/16"	3/8"	55 - 66 Sec.	10 Min.	30 Min.
6" IPS	3/16"	3/8"	90 - 108 Sec.	10 Min.	30 Min.
8" IPS	3/16"	3/8"	Visual	See e. Below	30 Min.
12" IPS	1/4"	1/2"	Visual	See e. Below	30 Min.

stresses.

d. Pouring water or applying wet cloths to the joint to reduce cooling time is not acceptable. e. The fusion force should be held between the pipe ends for approximately 30-90 seconds per inch of pipe diameter or until the surface of the melt bead is cool to the touch.

Source: Florida City Gas Operations Procedure Manual Last revision July 1, 2019

b. Minimum time required before removing the fused joint from the equipment. Light handling and making an additional fusion on the same fitting may be performed after this cooling period. c. Minimum time required after removing the joint from the fusion equipment before testing or subjecting the joint to bending, burying, pressure testing, or similar handling and backfill





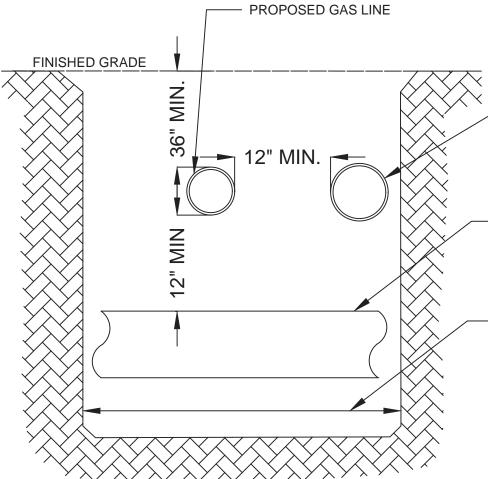
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NOTES

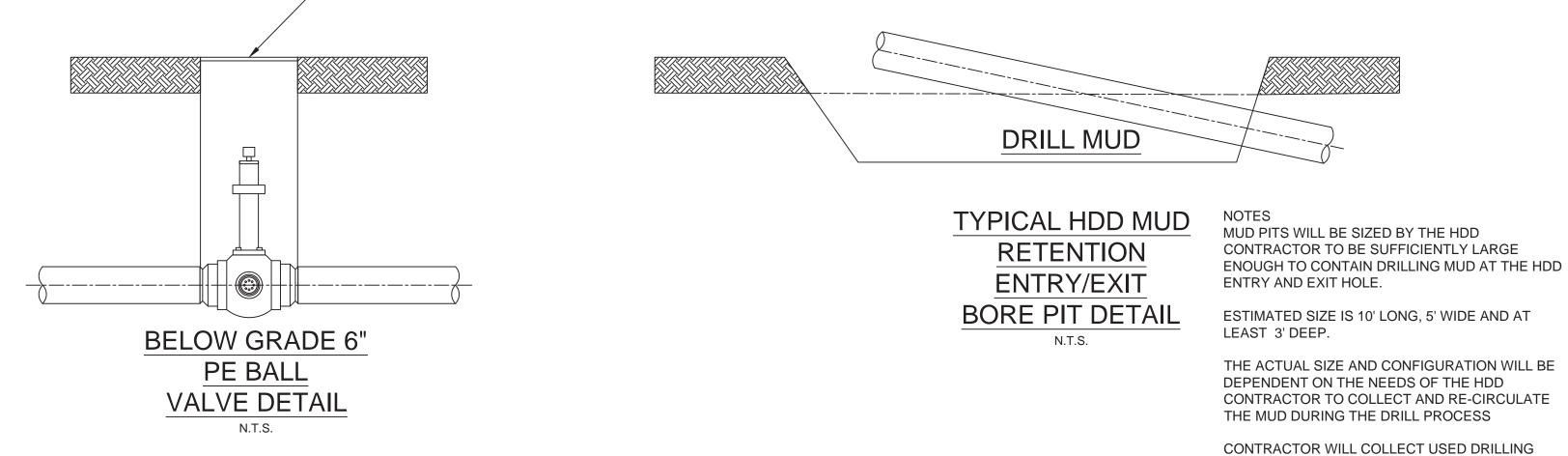
THESE ARE THE MINIMUM UTILITY SEPARATION REQUIREMENTS FOR OPEN TRENCH INSTALLATION OF GAS DISTRIBUTION MAIN OR SERVICE LINE, UNLESS PERMIT REQUIREMENTS ARE MORE STRINGENT.

*IF THE PROPOSED GAS LINE NEEDS TO BE INSTALLED CLOSER THAN 3 HORIZONTAL FEET OR WHEN CROSSING ANY EXISTING WATER OR SEWER MAIN, THEN A 1 FOOT VERTICAL CLEARANCE IS REQUIRED.

AS-BUILTS OF ALL ABANDONED AND CAPPED GAS LINES AS WELL AS ALL NEW GAS LINES/SERVICES REQUIRED.



TYPICAL TRENCH UTILITY SEPARATION N.T.S.



PARALLEL UTILITY PIPE OR STRUCTURE (PIPE SIZE VARIES)

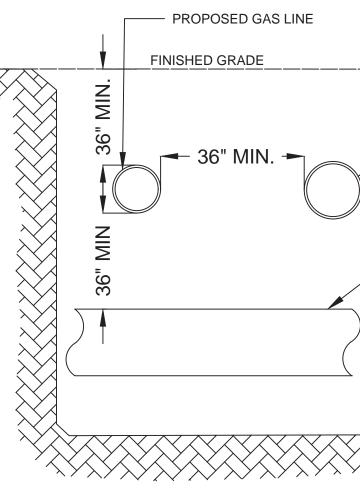
CROSSING UTILITY PIPE (PIPE SIZE VARIES)

12" MAX DITCH WIDTH FOR PIPES 4" OR LESS 24" MAX DITCH FOR PIPES OVER 4"

NOTES THESE ARE THE MINIMUM UTILITY SEPARATION REQUIREMENTS FOR HDD INSTALLATION OF GAS DISTRIBUTION MAIN OR SERVICE LINE, UNLESS PERMIT REQUIREMENTS ARE MORE STRINGENT.

*IF THE PROPOSED GAS LINE NEEDS TO BE INSTALLED CLOSER THAN THE MINIMUM 3 FOOT HORIZONTAL OR VERTICAL CLEARANCE, THEN A 1 FOOT CLEARANCE IS REQUIRED, UNLESS PERMIT REQUIREMENTS ARE MORE STRINGENT.

AS-BUILTS OF ALL ABANDONED AND CAPPED GAS LINES AS WELL AS ALL NEW GAS LINES/SERVICES ARE REQUIRED.

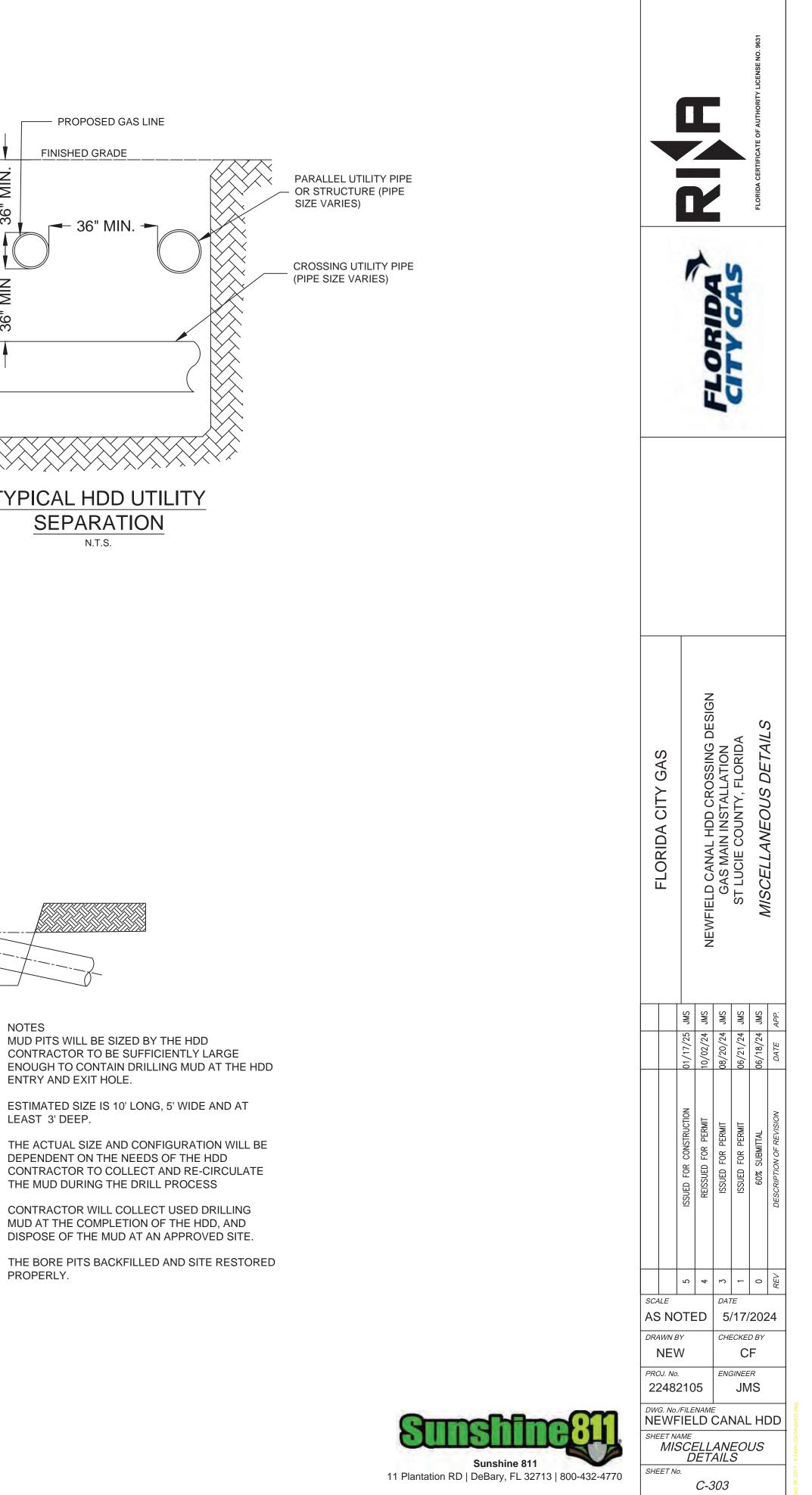


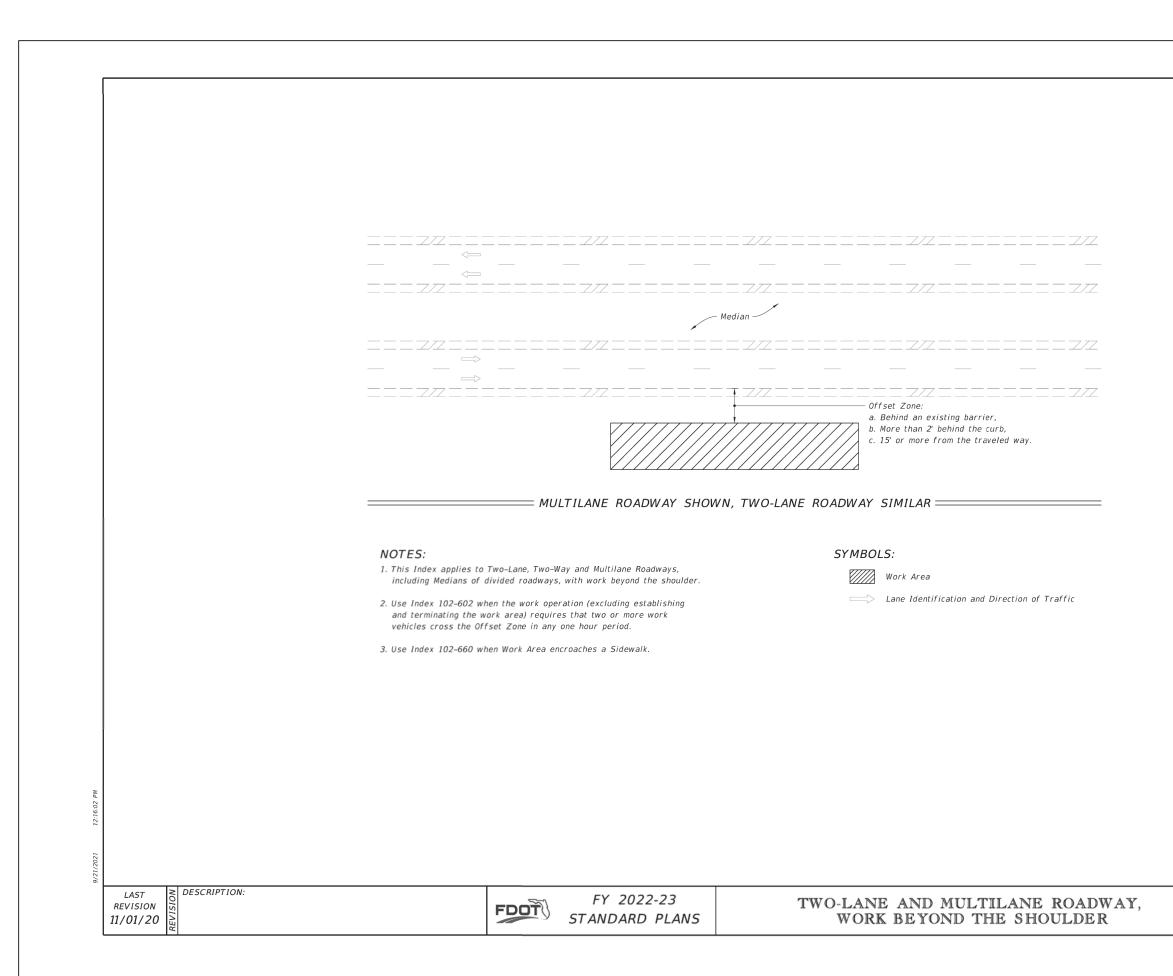
TYPICAL HDD UTILITY SEPARATION N.T.S.

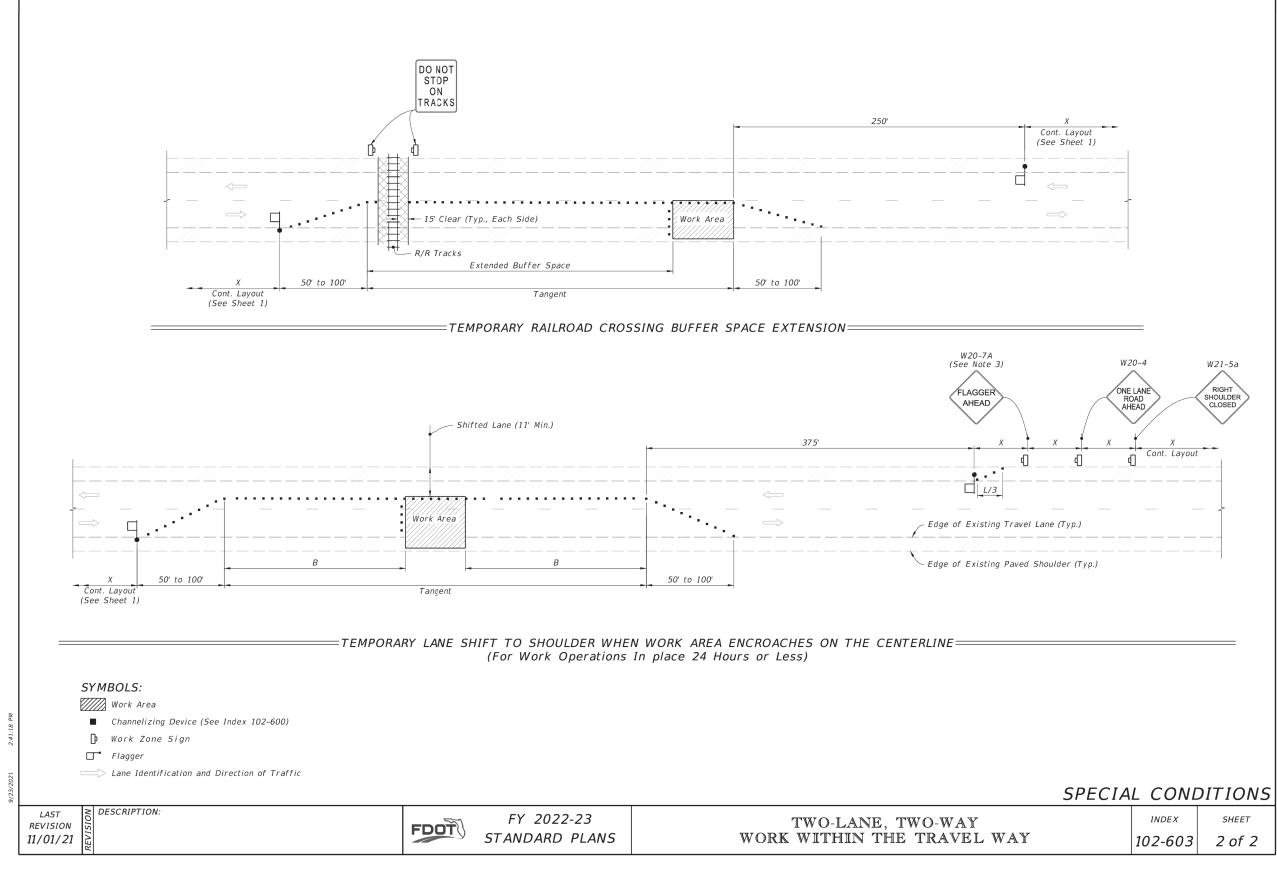
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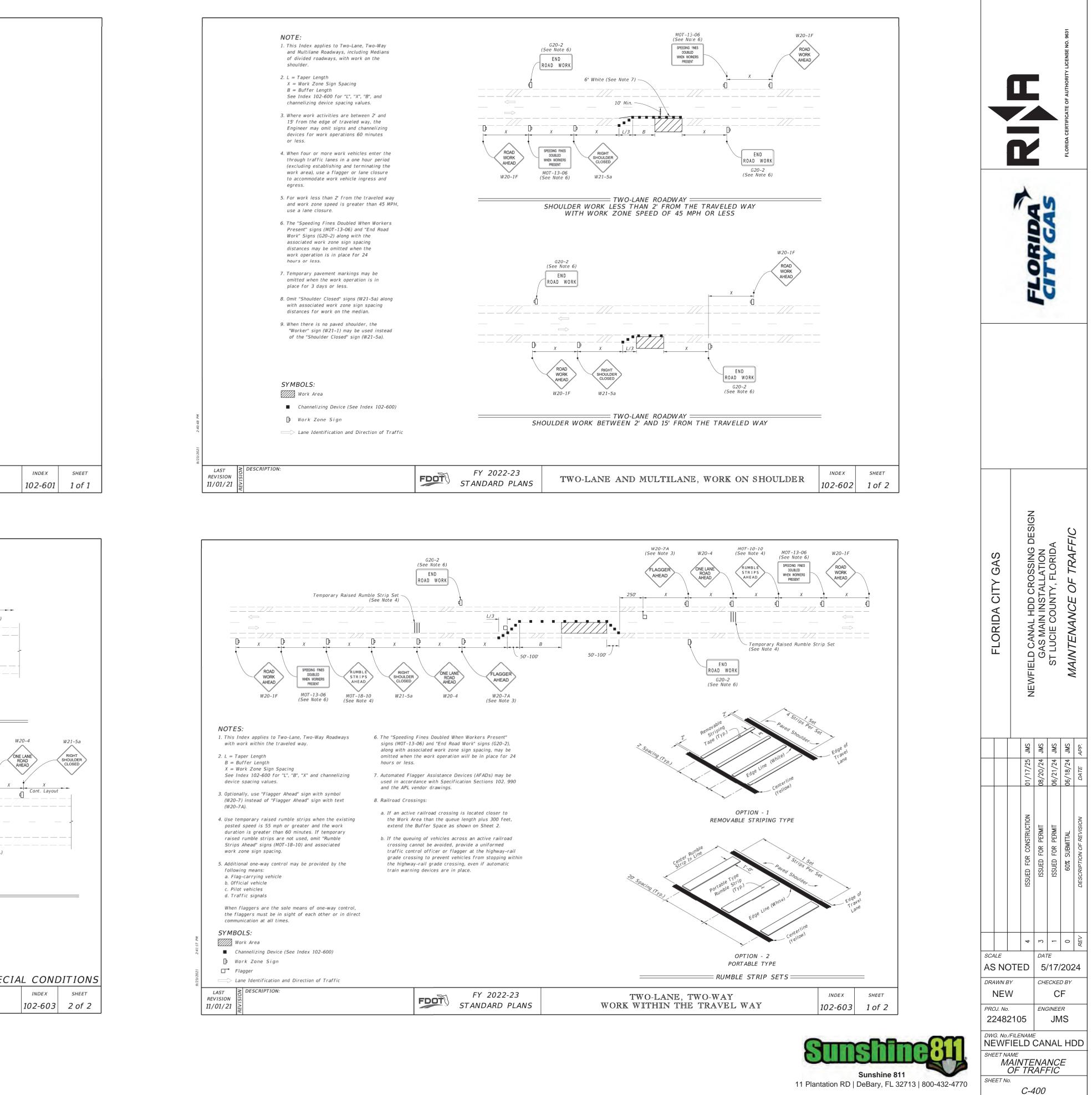
DISPOSE OF THE MUD AT AN APPROVED SITE. THE BORE PITS BACKFILLED AND SITE RESTORED

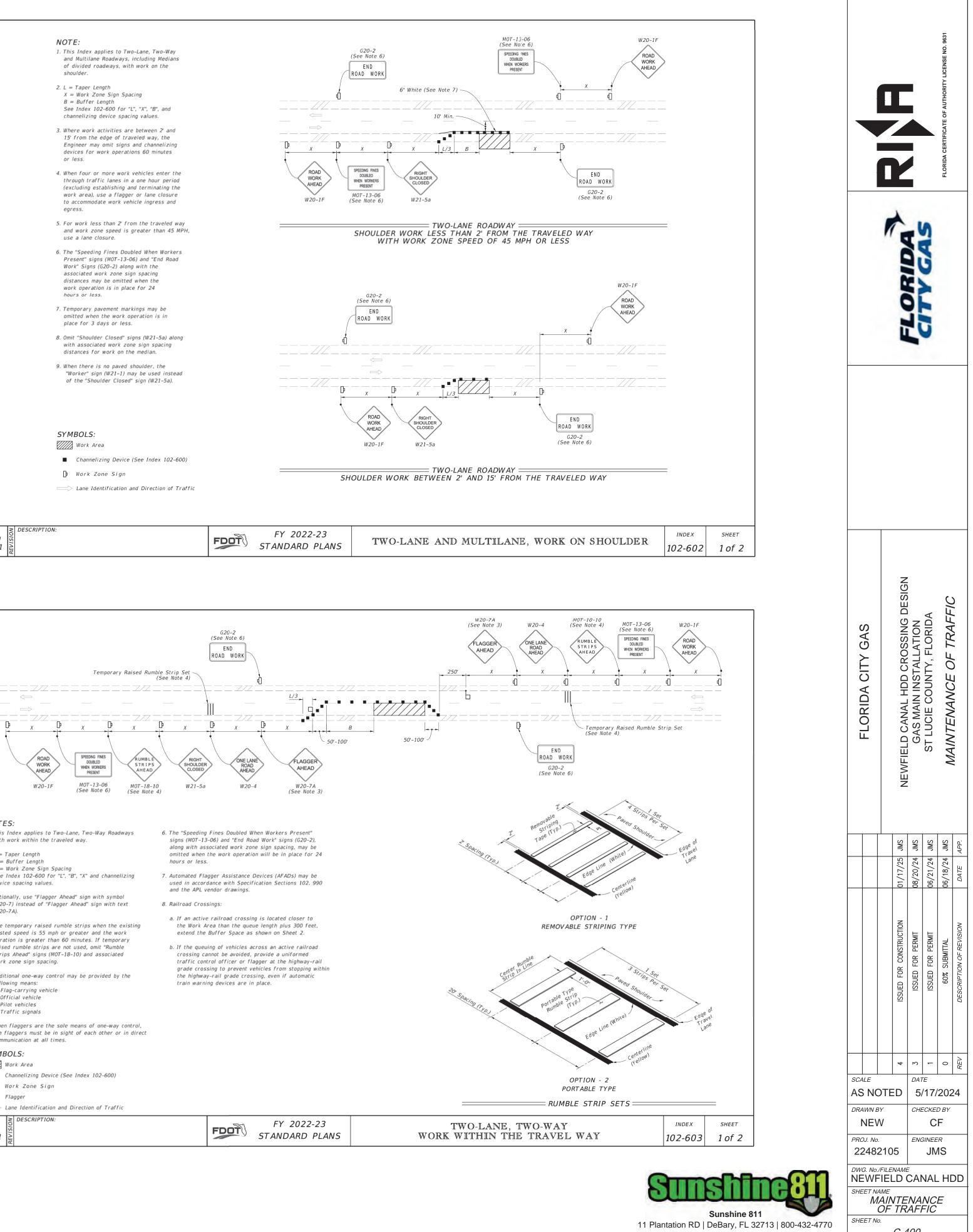
PROPERLY.

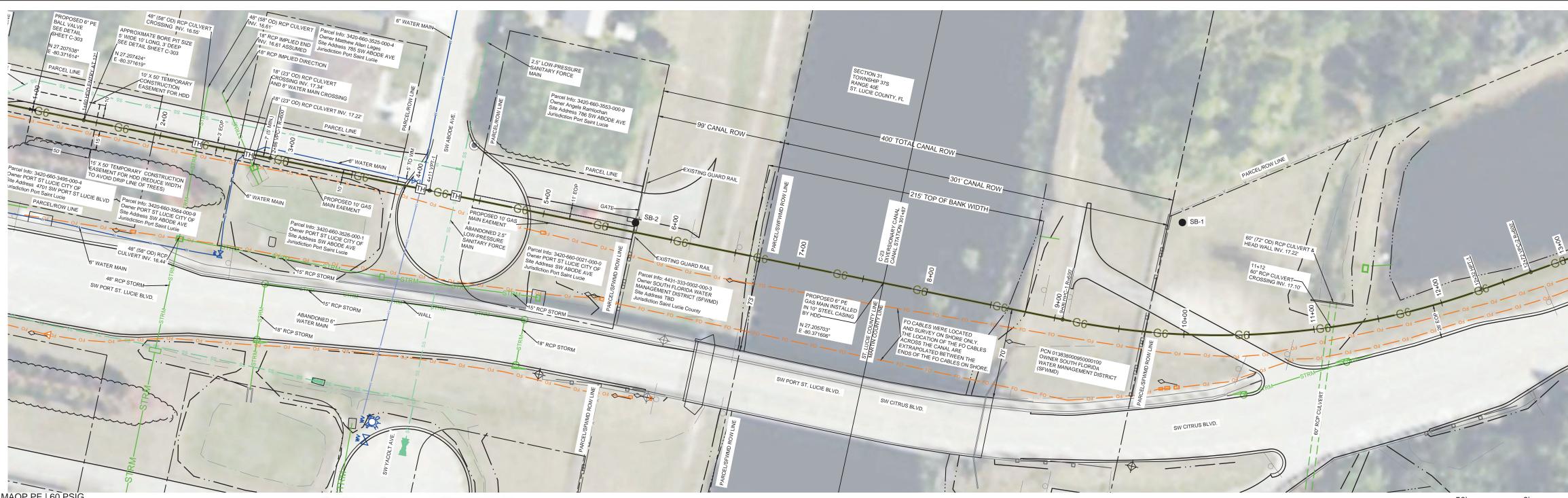












MAOP PE | 60 PSIG

ALL APPLICABLE UTILITIES THAT WERE IDENTIFIED THROUGH AN 811 TICKET WERE CONTACTED VIA EMAIL AND/OR PHONE REQUESTING UTILITY LOCATION INFORMATION.

ALL UTILITIES THAT WERE CONTACTED, PROVIDED INFORMATION ON THEIR UTILITIES IN THE AREA, EXCEPT FOR MARTIN COUNTY.

THE SURVEYOR, SURVEYED UTILITIES MARKED BY THE UTILITIES IN THE PREPARATION OF THESE DRAWINGS, EXCEPT FOR THE HDD PIPE STRINGING AREA, WHICH WAS NOT SURVEYED. ABANDONED FACILITIES MAY NOT HAVE BEEN MARKED OR SURVEYED, AND WERE ADDED FROM DRAWING PROVIDED BY THE UTILITY OWNERS.

CONTRACTOR IS NOT EXEMPT FROM VERIFYING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND MUST REQUEST UTILITY LOCATES TO BE COMPLETED PRIOR TO DIGGING PER LAW. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL UTILITIES HAVE BEEN MARKED. IF THEY HAVE NOT BEEN MARKED AS REQUIRED BY LAW, THE CONTRACTOR SHALL CONTACT THE UTILITY TO MAKE SURE THAT THESE UTILITIES HAVE BEEN MARKED PRIOR TO DIGGING. ANY ADDITIONAL UTILITIES THAT ARE LOCATED PRIOR TO CONSTRUCTION THAT ARE NOT FOUND ON THESE DRAWINGS, AND MAY POSE DESIGN ISSUES WITH THIS GAS MAIN, SHALL BE REPORTED TO FCG AND ENGINEER PRIOR TO STARTING WORK.

A MINIMUM OF 5' HORIZONTAL AND 18" VERTICAL SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING PORT ST. LUCIE UTILITIES INCLUDING WATER METERS AND SERVICES.

White = Proposed Excavation	1.
Pink = Temporary Survey Markings	2.
Red = Electric Power Lines, Cables, Conduit and Lighting Cables	
Yellow = Gas, Oil, Steam, Petroleum or Gaseous Materials	3.
Orange = Communication, Alarm or Signal Lines, Cables or Conduit	
Blue = Potable Water	4.
Purple = Reclaimed Water, Irrigation and Slurry Lines	5.
Green = Sewer and Drain Lines	
	6.
	7.

1. VPT- VERTICAL POINT OF TANGENT

2. VPC- VERTICAL POINT OF CURVATURE

3. HPT- HORIZONTAL POINT OF TANGENT

4. HPC- HORIZONTAL POINT OF CURVATURE 5. DRILL TOLERANCES THAT ARE OUTSIDE OF THESE VALUES REQUIRE FCG OR ENGINEERING

APPROVAL.

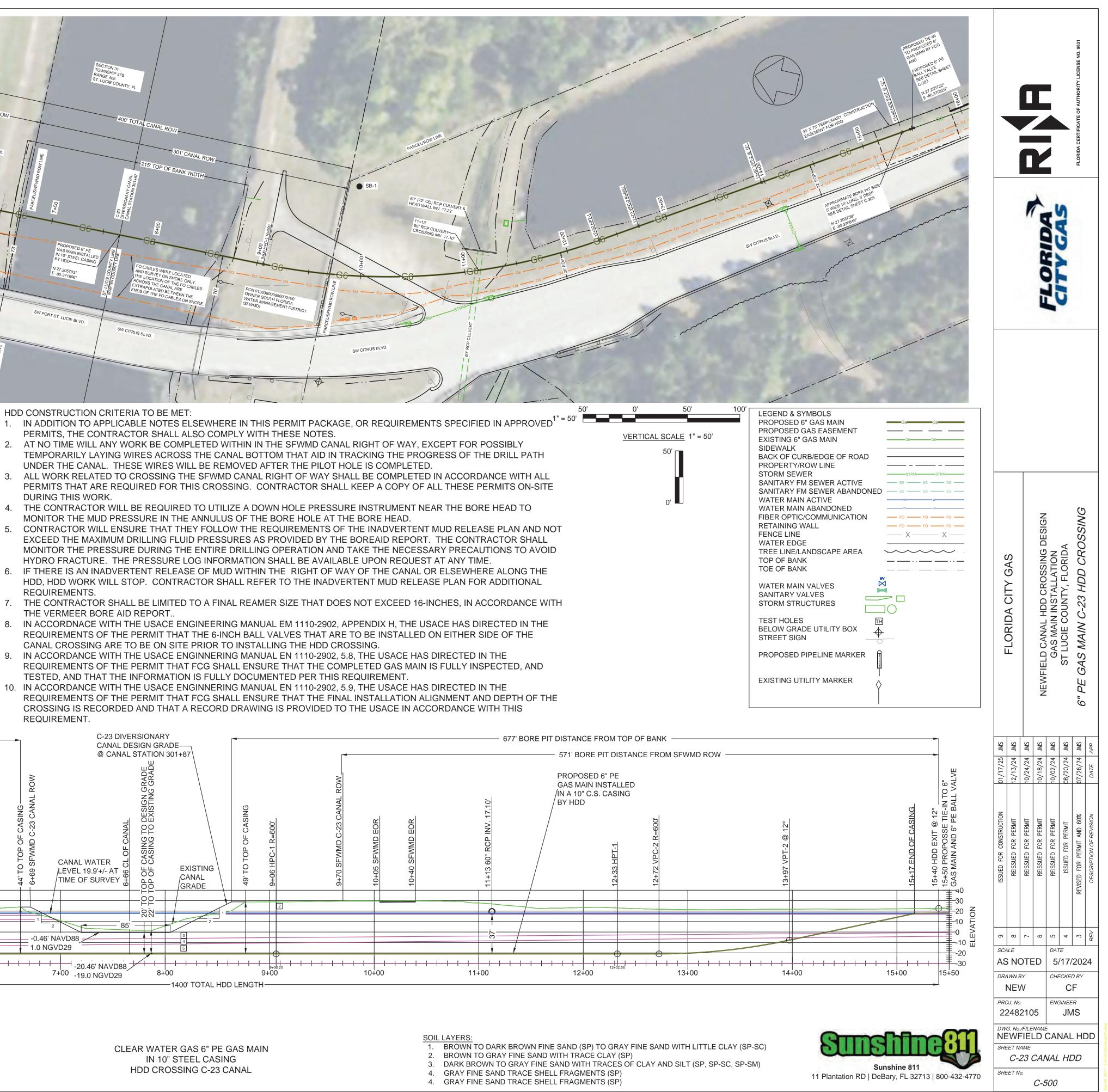
5.1. DRILL EXIT LENGTH -5' SHORT TO 20' LONG

5' LEFT OR RIGHT OF CENTER LINE 5.2. 5.3. DEPTH 0' UP, 10' DEEPER

RADIUS OF CURVATURE VERTICAL OR HORIZONTAL SHALL NOT BE LESS THAT 500' PER 5.4. THE 3-JOINT RULE

HDD CONSTRUCTION CRITERIA TO BE MET:

- PERMITS, THE CONTRACTOR SHALL ALSO COMPLY WITH THESE NOTES.
- ALL WORK RELATED TO CROSSING THE SFWMD CANAL RIGHT OF WAY SHALL BE COMPLETED IN ACCORDANCE WITH ALL PERMITS THAT ARE REQUIRED FOR THIS CROSSING. CONTRACTOR SHALL KEEP A COPY OF ALL THESE PERMITS ON-SITE DURING THIS WORK.
- THE CONTRACTOR WILL BE REQUIRED TO UTILIZE A DOWN HOLE PRESSURE INSTRUMENT NEAR THE BORE HEAD TO MONITOR THE MUD PRESSURE IN THE ANNULUS OF THE BORE HOLE AT THE BORE HEAD.
- CONTRACTOR WILL ENSURE THAT THEY FOLLOW THE REQUIREMENTS OF THE INADVERTENT MUD RELEASE PLAN AND NOT EXCEED THE MAXIMUM DRILLING FLUID PRESSURES AS PROVIDED BY THE BOREAID REPORT. THE CONTRACTOR SHALL MONITOR THE PRESSURE DURING THE ENTIRE DRILLING OPERATION AND TAKE THE NECESSARY PRECAUTIONS TO AVOID HYDRO FRACTURE. THE PRESSURE LOG INFORMATION SHALL BE AVAILABLE UPON REQUEST AT ANY TIME. IF THERE IS AN INADVERTENT RELEASE OF MUD WITHIN THE RIGHT OF WAY OF THE CANAL OR ELSEWHERE ALONG THE HDD, HDD WORK WILL STOP. CONTRACTOR SHALL REFER TO THE INADVERTENT MUD RELEASE PLAN FOR ADDITIONAL
- THE VERMEER BORE AID REPORT..
- TESTED, AND THAT THE INFORMATION IS FULLY DOCUMENTED PER THIS REQUIREMENT.
- REQUIREMENTS OF THE PERMIT THAT FCG SHALL ENSURE THAT THE FINAL INSTALLATION ALIGNMENT AND DEPTH OF THE CROSSING IS RECORDED AND THAT A RECORD DRAWING IS PROVIDED TO THE USACE IN ACCORDANCE WITH THIS REQUIREMENT.



HDD CONSTRUCTION CRITERIA TO BE MET:

- 1. IN ADDITION TO APPLICABLE NOTES ELSEWHERE IN THIS PERMIT PACKAGE. OR REQUIREMENTS SPECIFIED IN APPROVED PERMITS. THE CONTRACTOR SHALL ALSO COMPLY WITH THESE NOTES
- 2. AT NO TIME WILL ANY WORK BE COMPLETED WITHIN IN THE SFWMD CANAL RIGHT OF WAY, EXCEPT FOR POSSIBLY TEMPORARILY LAYING WIRES ACROSS THE CANAL BOTTOM THAT AID IN TRACKING THE PROGRESS OF THE DRILL PATH UNDER THE CANAL. THESE WIRES WILL BE REMOVED AFTER THE PILOT HOLE IS COMPLETED.
- 3. ALL WORK RELATED TO CROSSING THE SFWMD CANAL RIGHT OF WAY SHALL BE COMPLETED IN ACCORDANCE WITH ALL PERMITS THAT ARE REQUIRED FOR THIS CROSSING. CONTRACTOR SHALL KEEP A COPY OF ALL THESE PERMITS ON-SITE DURING THIS WORK.
- 4. THE CONTRACTOR WILL BE REQUIRED TO UTILIZE A DOWN HOLE PRESSURE INSTRUMENT NEAR THE BORE HEAD TO MONITOR THE MUD PRESSURE IN THE ANNULUS OF THE BORE HOLE AT THE BORE HEAD.
- 5. CONTRACTOR WILL ENSURE THAT THEY FOLLOW THE REQUIREMENTS OF THE INADVERTENT MUD RELEASE PLAN AND NOT EXCEED THE MAXIMUM DRILLING FLUID PRESSURES AS PROVIDED BY THE BOREAID REPORT. THE CONTRACTOR SHALL MONITOR THE PRESSURE DURING THE ENTIRE DRILLING OPERATION AND TAKE THE NECESSARY PRECAUTIONS TO AVOID HYDRO FRACTURE. THE PRESSURE LOG INFORMATION SHALL BE AVAILABLE UPON REQUEST AT ANY TIME
- 6. IF THERE IS AN INADVERTENT RELEASE OF MUD WITHIN THE RIGHT OF WAY OF THE CANAL OR ELSEWHERE ALONG THE HDD, HDD WORK WILL STOP. CONTRACTOR SHALL REFER TO THE INADVERTENT MUD RELEASE PLAN FOR ADDITIONAL REQUIREMENTS.
- 7. THE CONTRACTOR SHALL BE LIMITED TO A FINAL REAMER SIZE THAT DOES NOT EXCEED 16-INCHES, IN ACCORDANCE WITH THE VERMEER BORE AID REPORT
- 8. IN ACCORDANCE WITH THE USACE ENGINEERING MANUAL EM 1110-2902, APPENDIX H, THE USACE HAS DIRECTED IN THE REQUIREMENTS OF THE PERMIT THAT THE 6-INCH BALL VALVES THAT ARE TO BE INSTALLED ON EITHER SIDE OF THE CANAL CROSSING ARE TO BE ON SITE PRIOR TO INSTALLING THE HDD CROSSING.
- IN ACCORDANCE WITH THE USACE ENGINEERING MANUAL EM 1110-2902 5.8, THE USACE HAS DIRECTED IN THE REQUIREMENTS OF THE PERMIT THAT FCG SHALL ENSURE THAT THE COMPLETED GAS MAIN IS FULLY INSPECTED, AND TESTED, AND THAT THE INFORMATION IS FULLY DOCUMENTED PER THIS REQUIREMENT.
- 10. IN ACCORDANCE WITH THE USACE ENGINEERING MANUAL EM 1110-2902. 5.9, THE USACE HAS DIRECTED IN THE REQUIREMENTS OF THE PERMIT THAT FCG SHALL ENSURE THAT THE FINAL INSTALLATION ALIGNMENT AND DEPTH OF THE CROSSING IS RECORDED AND THAT A RECORD DRAWING IS PROVIDED TO THE USACE IN ACCORDANCE WITH THIS REQUIREMENT.

DESIGN PROFILE NOTE THE DESIGN CANAL INFORMATION IS AS FOLLOWS: BOTTOM ELEVATION = 1.0 FT NGVD29 (-0.46 FT NAVD88) BOTTOM WIDTH = 85 FEET SIDE SLOPE = 1 VERTICAL:2 HORIZONTAL SOURCE EMAIL

MICHELLE REICHERT Right of Way Specialist Supervisor Right of Way Section 1000 NE 40TH Avenue Okeechobee, FL 34972

05/23/2024

PIPE SPECIFICATIONS GAS MAIN MATERIAL: MEDIUM DENSITY POLYETHYLENE PIPE SIZE 6" (6.625" O.D.) WALL THICKNESS 0.576" PIPE GRADE: SDR 11.5

PIPE CASING MATERIAL CARBON STEEL (C.S.) PIPE SIZE 10" (10.75" O.D.) WALL THICKNESS 0.365" PIPE GRADE API 5L-X42

SOIL LAYERS

BROWN TO DARK BROWN FINE SAND (SP) TO GRAY FINE SAND WITH LITTLE CLAY (SP-SC)

- BROWN TO GRAY FINE SAND WITH TRACE CLAY (SP) 3. DARK BROWN TO GRAY FINE SAND WITH TRACES OF CLAY AND SILT (SP, SP-SC, SP-SM)
- 4. GRAY FINE SAND TRACE SHELL FRAGMENTS (SP)
- 5. GRAY FINE SAND TRACE SHELL FRAGMENTS (SP)
- HDD NOTES AND TOLLERANCES 1. VPT- VERTICAL POINT OF TANGENT
- 2. VPC- VERTICAL POINT OF CURVATURE
- 3. HPT- HORIZONTAL POINT OF TANGENT
- 4. HPC- HORIZONTAL POINT OF CURVATURE
- 5. DRILL TOLERANCES THAT ARE OUTSIDE OF THESE VALUES REQUIRE FCG OR ENGINEERING APPROVAL.
- 5.1. DRILL EXIT LENGTH -5' SHORT TO 20' LONG
- 5.2. 5' LEFT OR RIGHT OF CENTER LINE
- 5.3. DEPTH 0' UP, 10' DEEPER
- 5.4. RADIUS OF CURVATURE VERTICAL OR HORIZONTAL SHALL NOT BE LESS THAT 500' PER THE 3-JOINT RULE.

ALL APPLICABLE UTILITIES THAT WERE IDENTIFIED THROUGH AN 811 TICKET WERE CONTACTED VIA EMAIL AND/OR PHONE REQUESTING UTILITY LOCATION INFORMATION.

ALL UTILITIES THAT WERE CONTACTED, PROVIDED INFORMATION ON THEIR UTILITIES IN THE AREA, EXCEPT FOR MARTIN COUNTY.

THE SURVEYOR, SURVEYED UTILITIES MARKED BY THE UTILITIES IN THE PREPARATION OF THESE DRAWINGS, EXCEPT FOR THE HDD PIPE STRINGING AREA, WHICH WAS NOT SURVEYED. ABANDONED FACILITIES MAY NOT HAVE BEEN MARKED OR SURVEYED, AND WERE ADDED FROM DRAWING PROVIDED BY THE UTILITY OWNERS.

CONTRACTOR IS NOT EXEMPT FROM VERIFYING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND MUST REQUEST UTILITY LOCATES TO BE COMPLETED PRIOR TO DIGGING PER LAW. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL UTILITIES HAVE BEEN MARKED. IF THEY HAVE NOT BEEN MARKED AS REQUIRED BY LAW. THE CONTRACTOR SHALL CONTACT THE UTILITY TO MAKE SURE THAT THESE UTILITIES HAVE BEEN MARKED PRIOR TO DIGGING. ANY ADDITIONAL UTILITIES THAT ARE LOCATED PRIOR TO CONSTRUCTION THAT ARE NOT FOUND ON THESE DRAWINGS, AND MAY POSE DESIGN ISSUES WITH THIS GAS MAIN, SHALL BE REPORTED TO FCG AND ENGINEER PRIOR TO STARTING WORK.

A MINIMUM OF 5' HORIZONTAL AND 18" VERTICAL SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING PORT ST. LUCIE UTILITIES INCLUDING WATER METERS AND SERVICES.

CONSTRUCTION CRITERIA TO BE MET:

- 1. AT NO TIME WILL THE CANAL BE BLOCKED OR FLOWS OTHERWISE RESTRICTED OR IMPEDED; NO DAMS OR FILLS WILL BE PLACED IN THE CANAL DURING ANY PHASE OF CONSTRUCTION OR MAINTENANCE.
- EXCAVATED MATERIAL FROM THE CANAL SHALL NOT BE STOCKPILED IN THE CANAL. THE APPLICANT WILL REMOVE ALL EXCESS MATERIAL FROM THE DISTRICT'S RIGHT OF WAY.
- 3. TURBIDITY SCREENS SHALL BE USED DURING CONSTUCTION ACTIVITY IN CONFORMANCE WITH APPLICABLE REGULATIONS.

PROPOSED GAS EASEMENT EXISTING 6" GAS MAIN SIDEWALK BACK OF CURB/EDGE OF ROAD **PROPERTY/ROW LINE** STORM SEWER SANITARY FM SEWER ACTIVE SANITARY FM SEWER ABANDONED WATER MAIN ACTIVE WATER MAIN ABANDONED FIBER OPTIC/COMMUNICATION **RETAINING WALL** FENCE LINE WATER EDGE TREE LINE/LANDSCAPE AREA TOP OF BANK TOE OF BANK WATER MAIN VALVES SANITARY VALVES STORM STRUCTURES TEST HOLES **BELOW GRADE UTILITY BOX** STREET SIGN

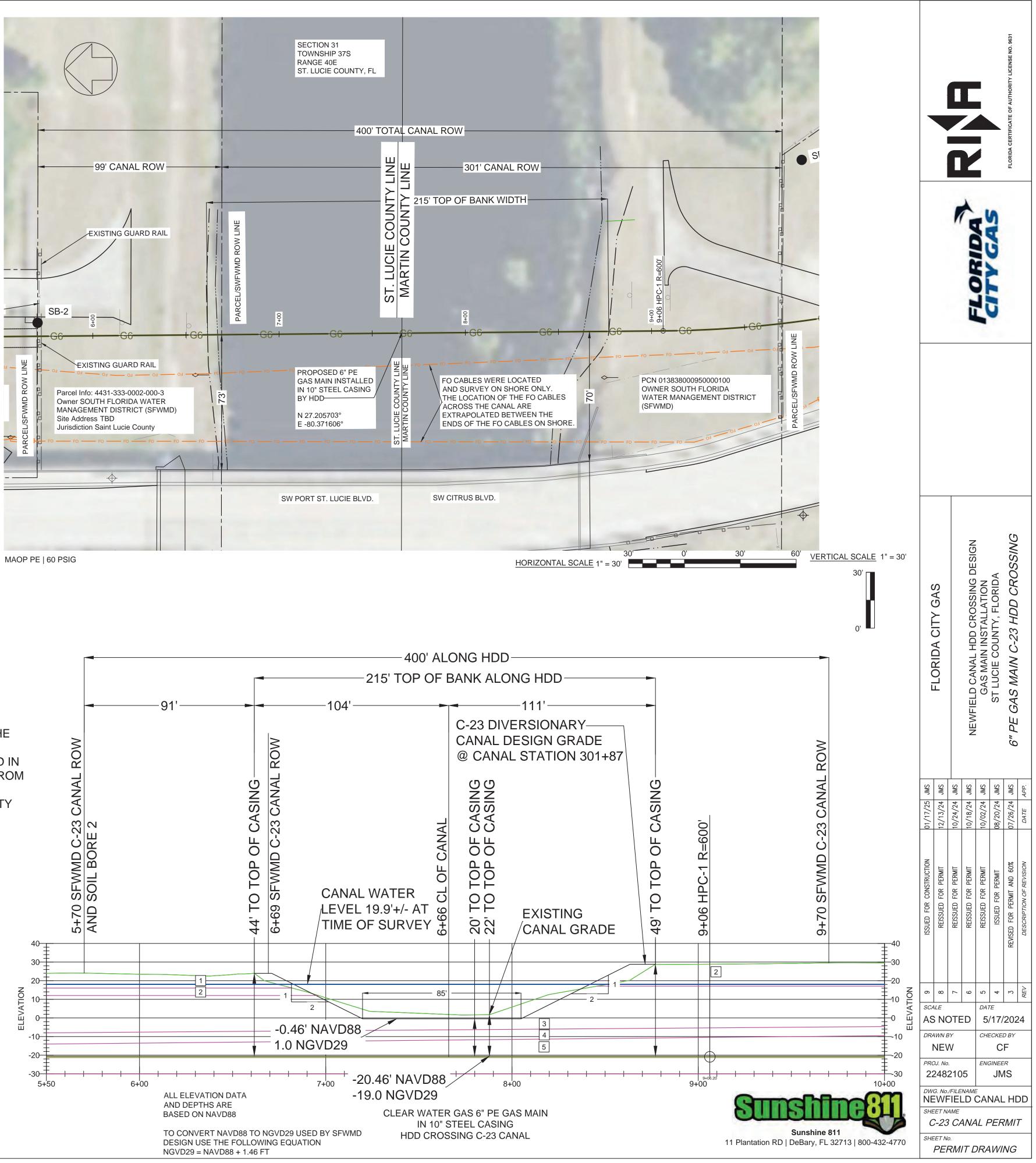
PROPOSED PIPELINE MARKER

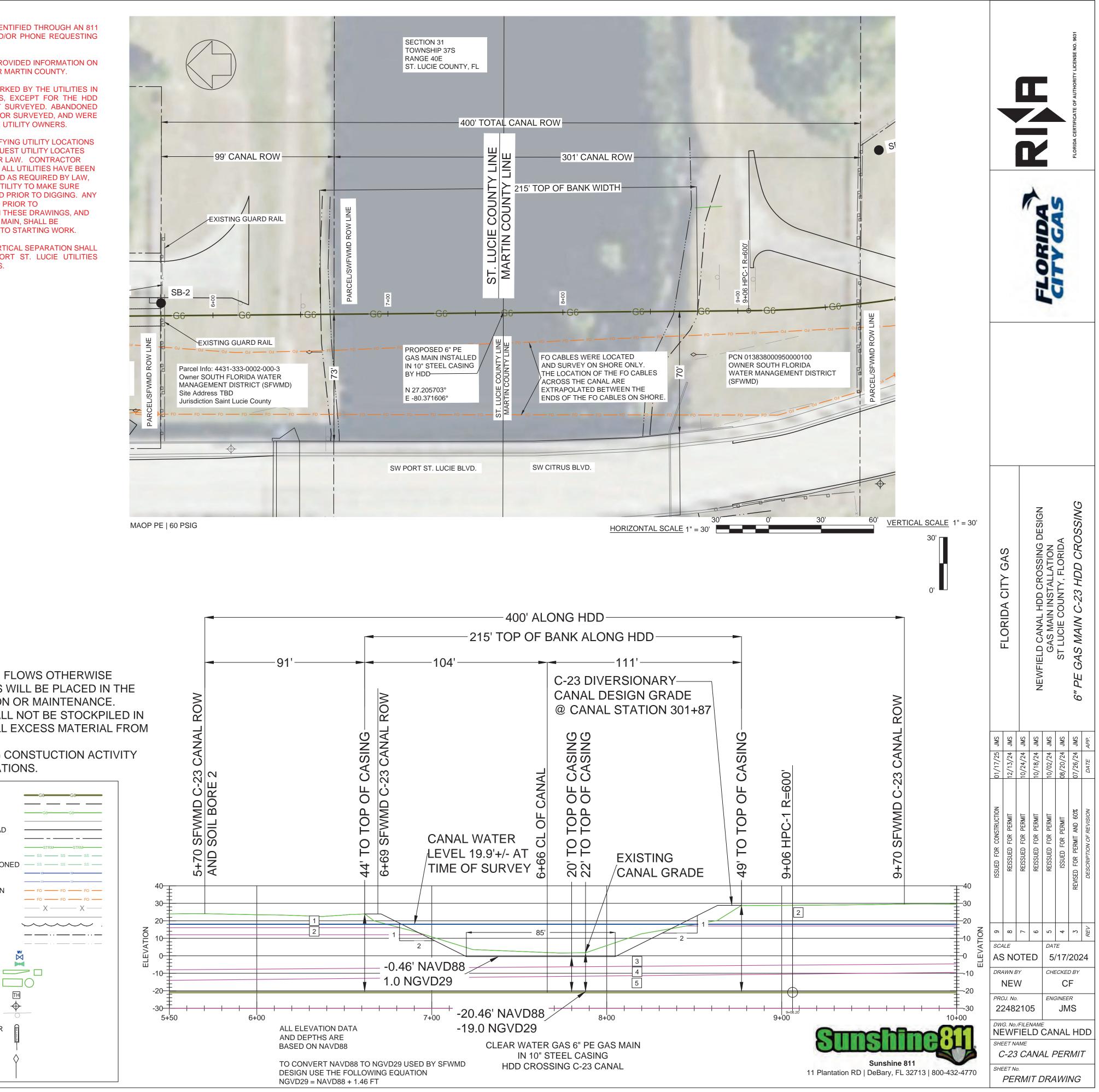
EXISTING UTILITY MARKER

LEGEND & SYMBOLS

PROPOSED 6" GAS MAIN







<u>Exhibit E</u> Insurance

The Grantee shall, on a primary basis and at its sole expense, agree to maintain in full force and effect at all times during the life of this Agreement, insurance coverage and limits, including endorsements, as described herein. The requirements contained herein, as well as Grantor's review or acceptance of insurance maintained by Grantee are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by Grantee under the Agreement.

The parties agree and recognize that it is not the intent of the Grantor that any insurance policy/coverage that it may obtain pursuant to any provision of this Agreement will provide insurance coverage to any entity, corporation, business, person, or organization, other than the Grantor and the Grantor shall not be obligated to provide any insurance coverage other than for the Grantor or extend its sovereign immunity pursuant to Section 768.28, Florida Statutes, and as may be amended from time to time, under its self-insured program. Any provision contained herein to the contrary shall be considered void and unenforceable by any party. This provision does not apply to any obligation imposed on any other party to obtain insurance coverage for this project and/or any obligation to name the Grantor as an additional insured under any other insurance policy or otherwise protect the interests of the Grantor as specified in this Agreement.

- <u>Workers' Compensation Insurance & Employer's Liability:</u> The Grantee shall agree to maintain Workers' Compensation Insurance & Employers' Liability in accordance with Section 440, Florida Statutes, and as may be amended from time to time. Employers' Liability must include limits of at least \$100,000.00 each accident, \$100,000.00 each disease/employee, \$500,000.00 each disease/maximum. A Waiver of Subrogation endorsement shall be provided. Coverage shall apply on a primary basis. Should scope of work performed by the Grantee qualify its employee(s) for benefits under Federal Workers' Compensation Statute (for example, U.S. Longshore & Harbor Workers Act or Merchant Marine Act), proof of appropriate Federal Act coverage must be provided.
- 2. <u>Commercial General Liability Insurance</u>: The Grantee shall agree to maintain Commercial General Liability insurance issued under an Occurrence form basis, including contractual liability, to cover the hold harmless agreement set forth herein, with limits of not less than:

Each occurrence	\$1,000,000
Personal/advertising injury	\$1,000,000
Products/completed operations aggregate	\$2,000,000
General aggregate	\$2,000,000
Fire damage	\$100,000 any 1 fire
	13

Medical expense

\$10,000 any 1 person

3. Additional Insured: An Additional Insured endorsement must be attached to the certificate of insurance and must include coverage for on-going and Completed Operations (should be ISO CG2037 & CG2010) under the General Liability policy. Products & Completed Operations coverage to be provided for a minimum of five (5) years from the date of possession by City or completion of Agreement. Coverage is to be written on an occurrence form basis. Coverage shall apply on a primary and noncontributory basis. A per project aggregate limit endorsement should be attached. Defense costs are to be in addition to the limit of liability. A waiver of subrogation shall be provided in favor of the City. Coverage for the hazards of explosion, collapse and underground property damage (XCU) must also be included when applicable to the work performed. No exclusion for mold, silica or respirable dust or bodily injury/property damage arising out of heat, smoke, fumes, or hostile fire shall apply. Coverage shall extend to independent Grantees and fellow employees. Contractual Liability is to be included. Coverage is to include a cross liability or severability of interests provision as provided under the standard ISO form separation of insurers clause.

Except as to Workers' Compensation and Employers' Liability, said Certificate(s) and policies shall clearly state that coverage required by the Agreement has been endorsed to include the City of Port St. Lucie, a municipality of the State of Florida, its officers, agents and employees as Additional Insured added to its Commercial General Liability and Business Automobile policies. The name for the Additional Insured endorsement issued by the insurer shall read "City of Port St. Lucie, a municipality of the State of Florida, its officers, employees and agents shall be listed as additional insured and shall include Easement for Gas Pipeline". The Policies shall be specifically endorsed to provide thirty (30) days written notice to the City prior to any adverse changes, cancellation, or non-renewal of coverage thereunder. Formal written notice shall be sent to City of Port St. Lucie, 121 SW Port St. Lucie Blvd., Port St. Lucie, FL 34984, Attn: Legal. In the event that the statutory liability of the City is amended during the term of this Agreement to exceed the above limits. the Grantee shall be required, upon thirty (30) days written notice by the City, to provide coverage at least equal to the amended statutory limit of liability of the City. Copies of the Additional Insured endorsements including Completed Operations coverage shall be attached to the Certificate of Insurance.

4. <u>Business Automobile Liability Insurance</u>: The Grantee shall agree to maintain Business Automobile Liability at a limit of liability not less than \$1,000,000.00 each accident covering any auto, owned, non-owned and hired automobiles. In the event, the Grantee does not own any automobiles, the Business Auto Liability requirement shall be amended allowing the Grantee to agree to maintain only Hired & Non-Owned Auto Liability. This amended requirement may be satisfied by way of endorsement to the Commercial General Liability, or separate Business Auto Coverage form. Certificate holder must be listed as additional insured. A waiver of subrogation shall be provided. Coverage shall apply on a primary non-contributory basis.

- 5. <u>Pollution Insurance:</u> Grantee shall procure and agree to maintain in full force during the term of this Contract, Contractors Pollution Liability Insurance in limits not less than \$1,000,000 per occurrence and \$2,000,000 aggregate, for any operations relating to the construction, handling, storage, and transportation of hazardous materials and/or waste. Contractors Pollution should be in force for no less than the entire term of the project and two years extended Completed Operations. The City of Port St. Lucie shall be listed as an additional insured. A waiver of subrogation shall be provided in favor of the City. Coverage shall apply on a primary and non-contributory basis.
- 6. <u>Waiver of Subrogation:</u> By entering into this Agreement, the Grantee agrees to a Waiver of Subrogation for each required policy. When required by the insurer, or should a policy condition not permit an Insured to enter into a pre-loss Agreement to waive subrogation without an endorsement then the Grantee shall agree to notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy where a condition to the policy specifically prohibits such an endorsement, or voids coverage should Grantee enter into such an Agreement on a pre-loss basis.
- 7. <u>Deductibles:</u> All deductible amounts shall be paid for and be the responsibility of the Grantee for any and all claims under this Agreement. Where an SIR or deductible exceeds \$5,000, the City reserves the right, but is not obligated, to review and request a copy of the bidder's most recent annual report or audited financial statement.

It shall be the responsibility of the Grantee to ensure that all independent contractors and/or subcontractors comply with the same insurance requirements as listed herein, including Products & Completed Operations coverage for a minimum of five (5) years from the date of possession by City or completion of Agreement. It shall be the responsibility of the Grantee to obtain Certificates of Insurance from all Contractors and subcontractors listing the City as an Additional Insured, without the language "when required by written Agreement".

The Grantee may satisfy the minimum limits required above for either Commercial General Liability, Business Auto Liability, or Employers' Liability coverage under Umbrella or Excess Liability. The Umbrella or Excess Liability shall have an Aggregate limit not less than the highest "Each Occurrence" limit for either Commercial General Liability, Business Auto Liability, or Employers' Liability. When required by the insurer, or when Umbrella or Excess Liability is written on Non-Follow Form, the City shall be endorsed as an <u>"Additional Insured."</u>

The Grantor, by and through its Risk Management Department, reserves the right, but is not

obligated to review, modify, reject, or accept any required policies of insurance including limits, coverages or endorsements, herein from time to time throughout the term of this Agreement. All insurance carriers must have an AM Best rating of at least A:VII or better. A failure on the part of the Grantee to execute the Agreement and/or punctually deliver the required insurance, and other documentation may be cause for annulment of the award.