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INDEX MAP LEGEND

- Proposed Pipeline
- Existing Pipeline
- Stream
- Construction Map Sheet
- Local Road
- County Route
- State Route
- US Highway
- Interstate Highway
- Municipal Boundary
- County Boundary

CONSTRUCTION MAP LEGEND

- | | | |
|--------------------------------|----------------------------|--|
| PI | Miscellaneous Structure | Electric Overhead |
| Even Station (Ex. 2+00) | Proposed Pipeline | Telephone Underground |
| Mainline Valve | Temporary Access Road | Telephone Overhead |
| Bore Entry/Exit | Sign | Guy Wire |
| Proposed Power Pole | Toe of Slope | Pipeline - Surveyed |
| Storage Well | Gate | Pipeline - Unsurveyed |
| Unknown Well | Guide Rail | Unknown Utility Underground |
| Water Well | Top of Slope | Ch93 Designated Use Stream |
| Drainage Structure | Boulder | 20ft Contour |
| Electric Meter | Blaze Line | Cultural Area |
| Underground Telephone Pedestal | Building | Environmental Clearing Limit |
| Underground Water Tank | Culvert | Limit of Disturbance |
| Water Valve | Drainage Ditch | Drip Tank |
| Fire Hydrant | Edge of Agricultural Field | Drainage Headwall |
| Dead Utility Pole | Edge of Gravel | Water Well Structure |
| Gas Line Vent | Edge of Pavement | Slab Top |
| Gas Meter | Edge of Water | Oil Tank Area |
| Gas Valve | Fence | Prehistoric Site |
| Gas Well | Outcrop | Parcel Boundary |
| Manhole | Permanent Access Road | Municipalities |
| Pothole | Railroad | Additional Temporary Work Space |
| Telephone Pedestal | Road Centerline | Anode Bed |
| Drip Tank | Tree Stand | Interconnect |
| Utility Pole | Treeline | Station |
| Test Station | Vault | Permanent Easement |
| Line Marker | Cathodic Line | Staging Area |
| Miscellaneous Utility | Cathodic Line - Unsurveyed | Temporary Work Space |
| Sign | Abandoned Gas Line | Valve Set |
| Mailbox | Sanitary Sewer Underground | Foot Traffic Only - No Mechanized Clearing |
| Drill Hole | Oil Underground | Delineated Stream |
| Boulder | Gas Well Line | Delineated Wetland |
| Stake | Water Line | Delineated Pond |
| Property Corner | Water Line - Unsurveyed | Delineated Ditch |
| Tree Stand | Water Line - Unsurveyed | Delineated Unknown |
| Post | Electric Underground | Matchline |

NOTES:

Property lines:
All property lines are approximate and are shown from available tax map record data only and not actual boundary retracement survey.

Wetlands/Streams:
This data was provided by Mott MacDonald on 6/19/2019.

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**Know what's below.
Call before you dig.**

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made reasonable efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel recommends that the contractor perform their own due diligence to determine the location of underground facilities, including the appropriate state One Call, communication with landowners, etc. National Fuel makes no warranty regarding the completeness or accuracy of the information provided.



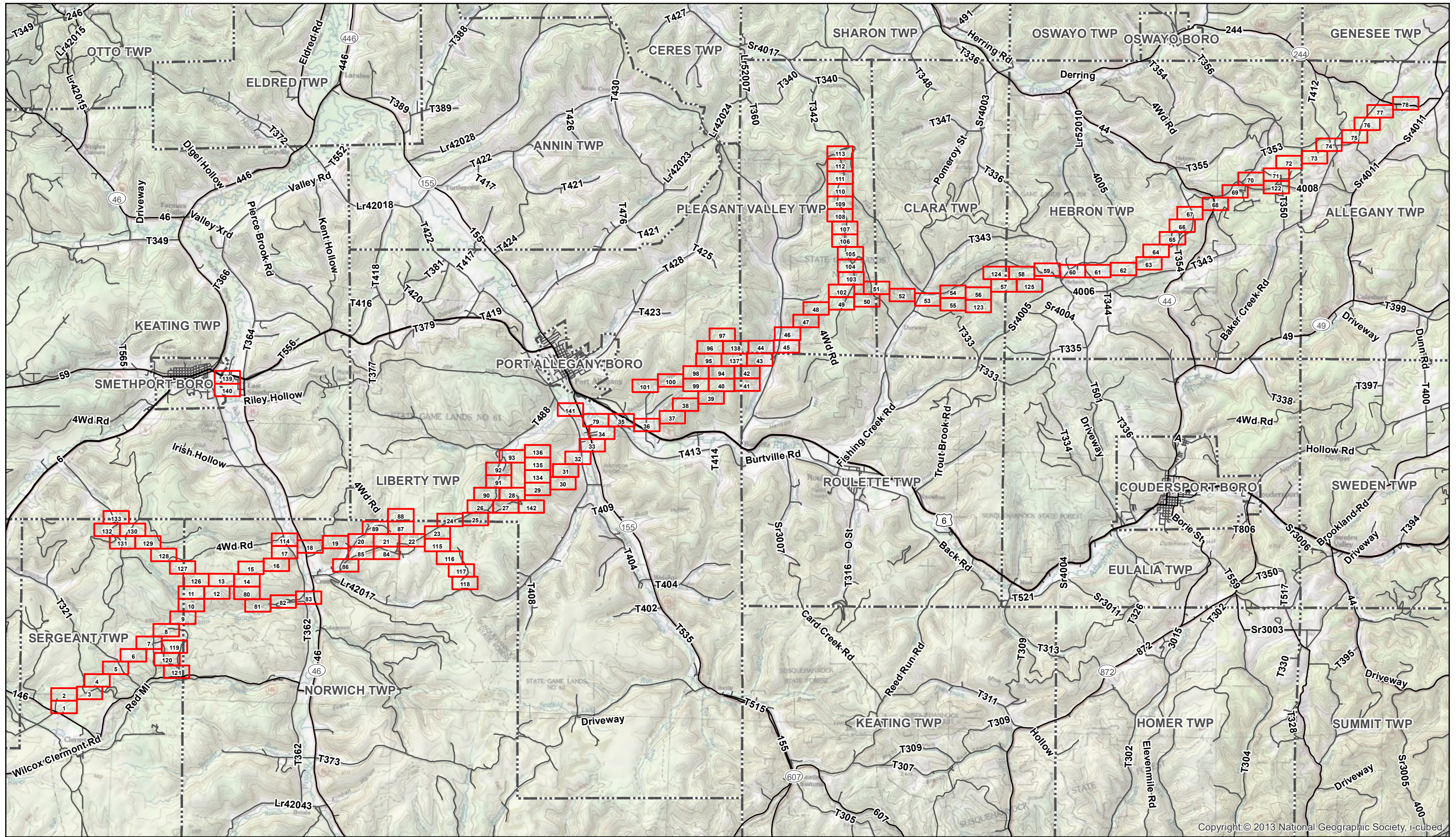
NFG Supply Corporation
FM100 Project

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Scale: 1 in. = 25,000 ft.
Date: September 27, 2019

REV

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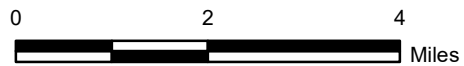
INDEX SHEET



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REV

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TOPO SHEET

REV	STATUS	DESCRIPTION
A	DRAFT	Initial submittal of mapping
B	DRAFT	Add updated McKean parcels, modify LOD around Marvindale site
C	DRAFT	Updated parcels, even stations, and annotation. Updated labels for clarity. Added PI points. Updated LOD and ECL.
D	DRAFT	Updated environmental data from Mott Mac, modified some ATWS per new environmental data
E	DRAFT	Update project name, workspace and map edits per NFG
F	DRAFT	Add labels to features. Update pipe centerline. Adjust sheeting.
G	DRAFT	Adjust sheeting.
H	DRAFT	Updated International Wax pipe to yellow and add interconnect area
J	DRAFT	Adjust LOD, include MLV3 in export.
K	DRAFT	Update pipe names. Add KL as-built and KL extensions to mapping.
L	DRAFT	Update KL Extension Line. Add KL Valve Set and Clermont Pad Line. Update Parcel lines. Update Meck parcel.
M	DRAFT	Updated ECL, updates to workspaces
N	DRAFT	Pipeline and workspace edits to sheets 1 & 2
P	DRAFT	Modifications to eastern Marvindale station pipe alignment, add Carpenter Hollow station area, pull YM-58 proposed pipe end back to Carpenter Hollow station area
R	DRAFT	Additional survey data at interconnect, YM224 MLV shifts, updated imagery, staging area labels added, updated environmental data, minor ATWS changes
T	ISSUED FOR FERC	ATWS labels added, land owner names removed
U	ISSUED FOR FERC	Cultural resource reroute, parcel line tighten, environmental label updates, FERC comment updates, add beauty shop from survey

STOP! CALL BEFORE YOU DIG! 811 OR 1-800-242-1776		
<p>PENNSYLVANIA ACT 287 REQUIRES: A DESIGN ONE CALL TO BE PLACED NO LESS THAN 10 OR MORE THAN 30 BUSINESS DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.</p> <p>DESIGN ONE CALL DATE: 01/26/2018 DESIGN ONE CALL SERIAL NUMBER: 20180261141</p> <p>SERGEANT TWP, MCKEAN COUNTY RESPONSE: YES (Y) / NO (N)</p> <p>WINDSTREAM (Y), UGI CN PEN DSGN (Y), KNOX ENRGY KANE (Y), WEST PENN POWER (Y), MCKEAN LANDFILL (Y), NFGD/NFGS KANE (Y), NATFUELGAS MIDS (Y), SERGEANT TWP (Y), SENECA RESOURCE (Y), TENN GAS CDPT (Y), TENN GAS MROR (Y)</p>	<p>PENNSYLVANIA ACT 287 REQUIRES: A DESIGN ONE CALL TO BE PLACED NO LESS THAN 10 OR MORE THAN 30 BUSINESS DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.</p> <p>DESIGN ONE CALL DATE: 01/26/2018 DESIGN ONE CALL SERIAL NUMBER: 20180261642</p> <p>SERGEANT TWP, MCKEAN COUNTY RESPONSE: YES (Y) / NO (N)</p> <p>WINDSTREAM (Y), UGI CN PEN DSGN (Y), KNOX ENRGY KANE (Y), WEST PENN POWER (Y), MCKEAN LANDFILL (Y), NFGD/NFGS KANE (Y), NATFUELGAS MIDS (Y), SERGEANT TWP (Y), TENN GAS CDPT (Y)</p>	<p>PENNSYLVANIA ACT 287 REQUIRES: A DESIGN ONE CALL TO BE PLACED NO LESS THAN 10 OR MORE THAN 30 BUSINESS DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.</p> <p>DESIGN ONE CALL DATE: 01/29/2018 DESIGN ONE CALL SERIAL NUMBER: 20180290962</p> <p>NORWICH TWP, MCKEAN COUNTY RESPONSE: YES (Y) / NO (N)</p> <p>CROSBY WTR ASSN (Y), UGI CN PEN DSGN (N), SOMERSET GAS (Y), WEST PENN POWER (Y), NFGD/NFGS KANE (Y), NATFUELGAS MIDS (Y), NORWICH TWP (Y), OPENFLOW GASUPL (Y), TENN GAS CDPT (Y)</p>
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IFB = ISSUED FOR BID
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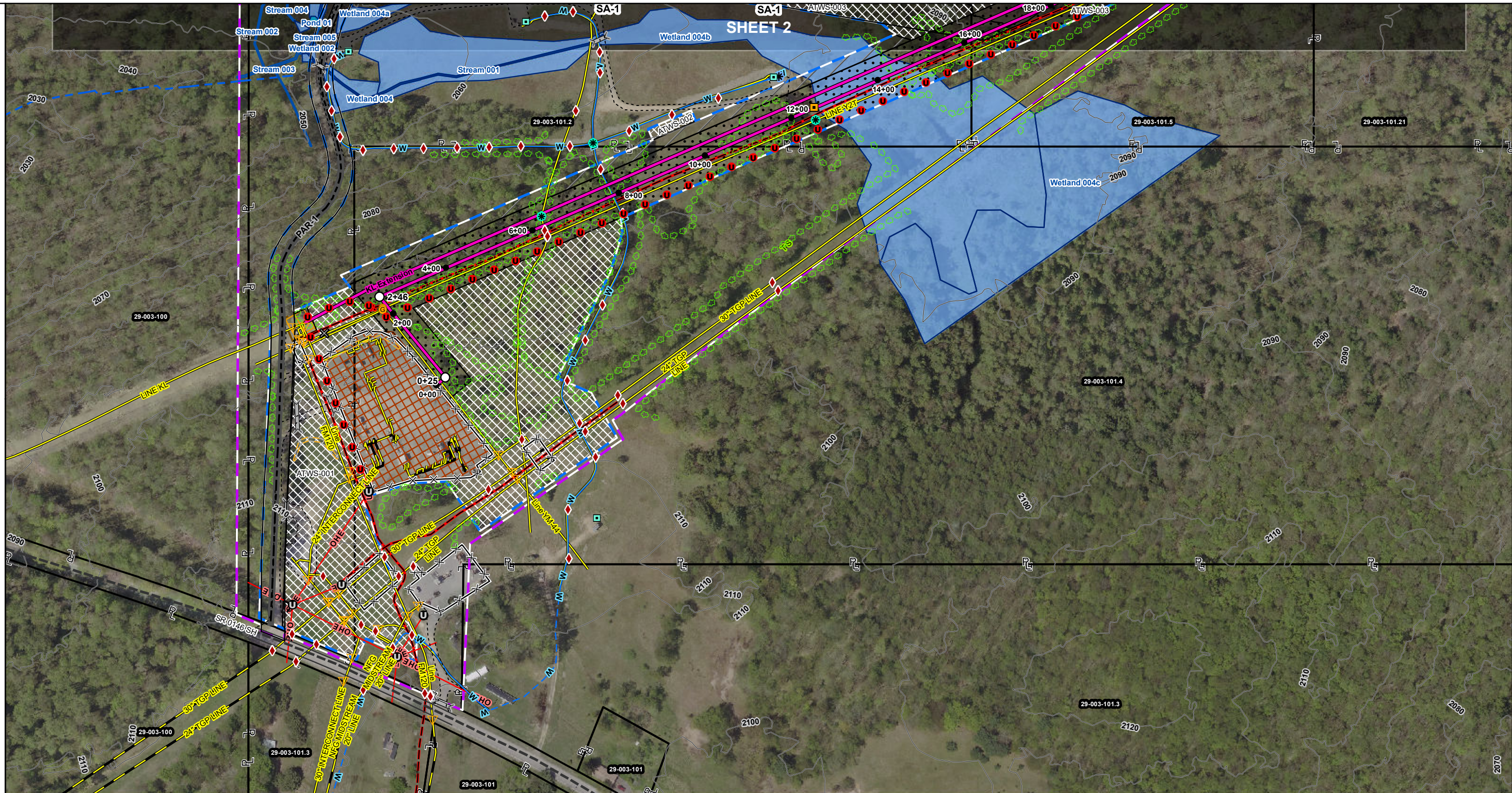
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REV

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REVISIONS

PIPELINE



FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING



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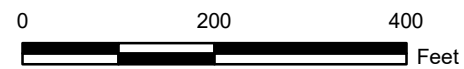
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SHEET 3

SHEET 1

FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING

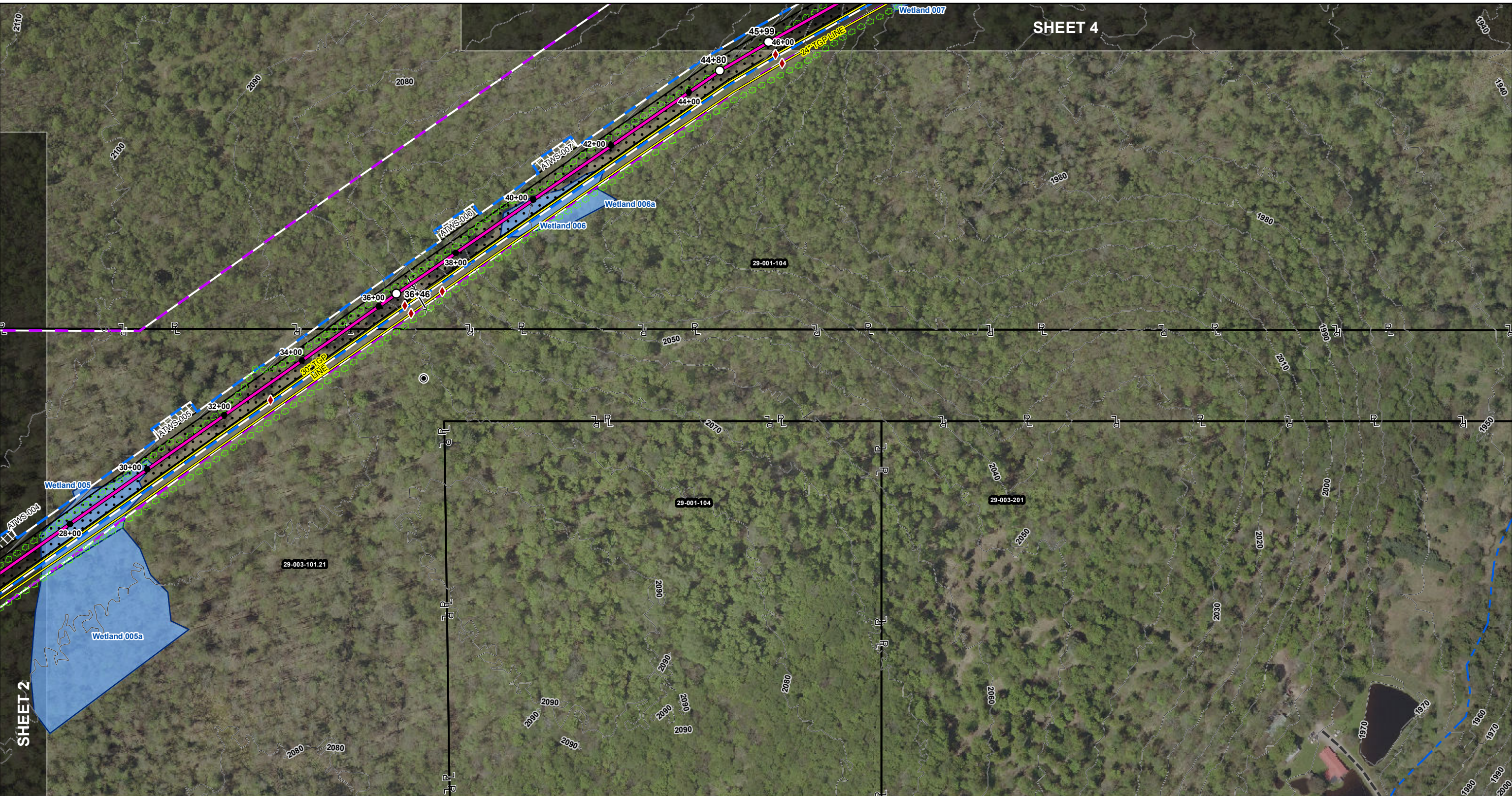
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PIPELINE



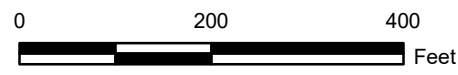
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FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING



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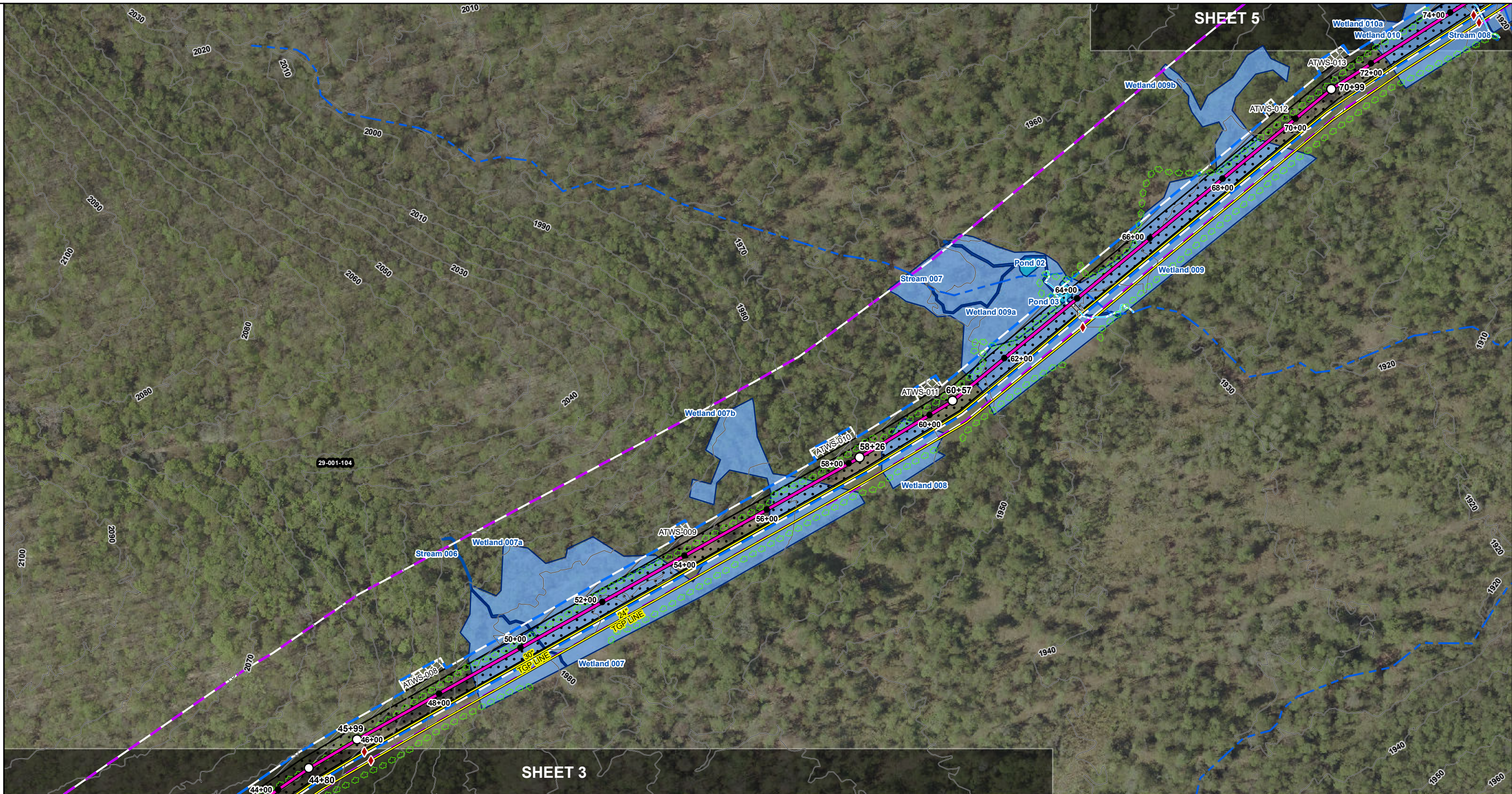
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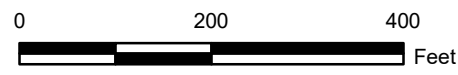
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FOOTAGE
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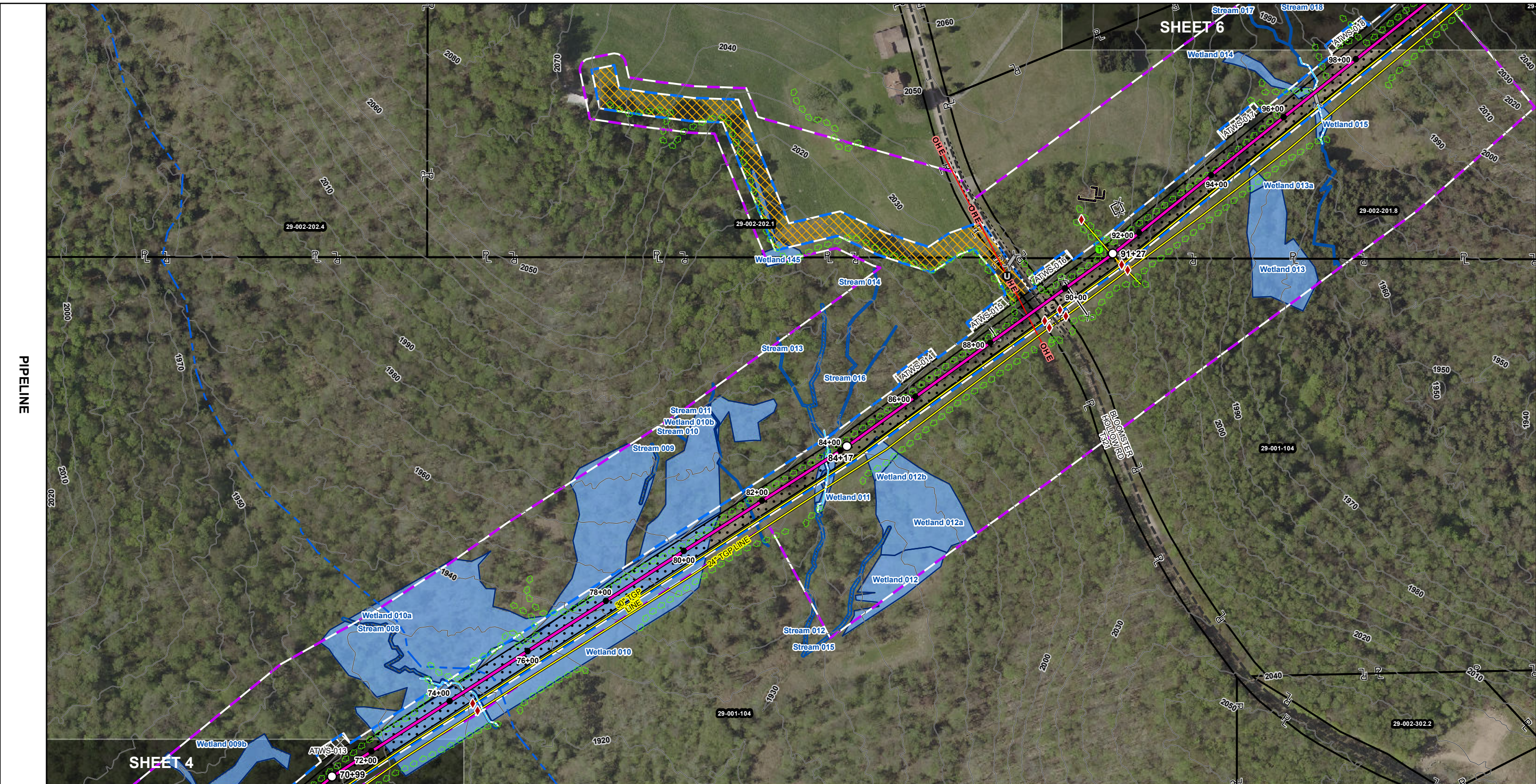


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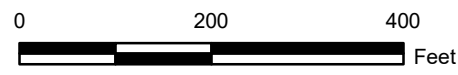
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FOOTAGE
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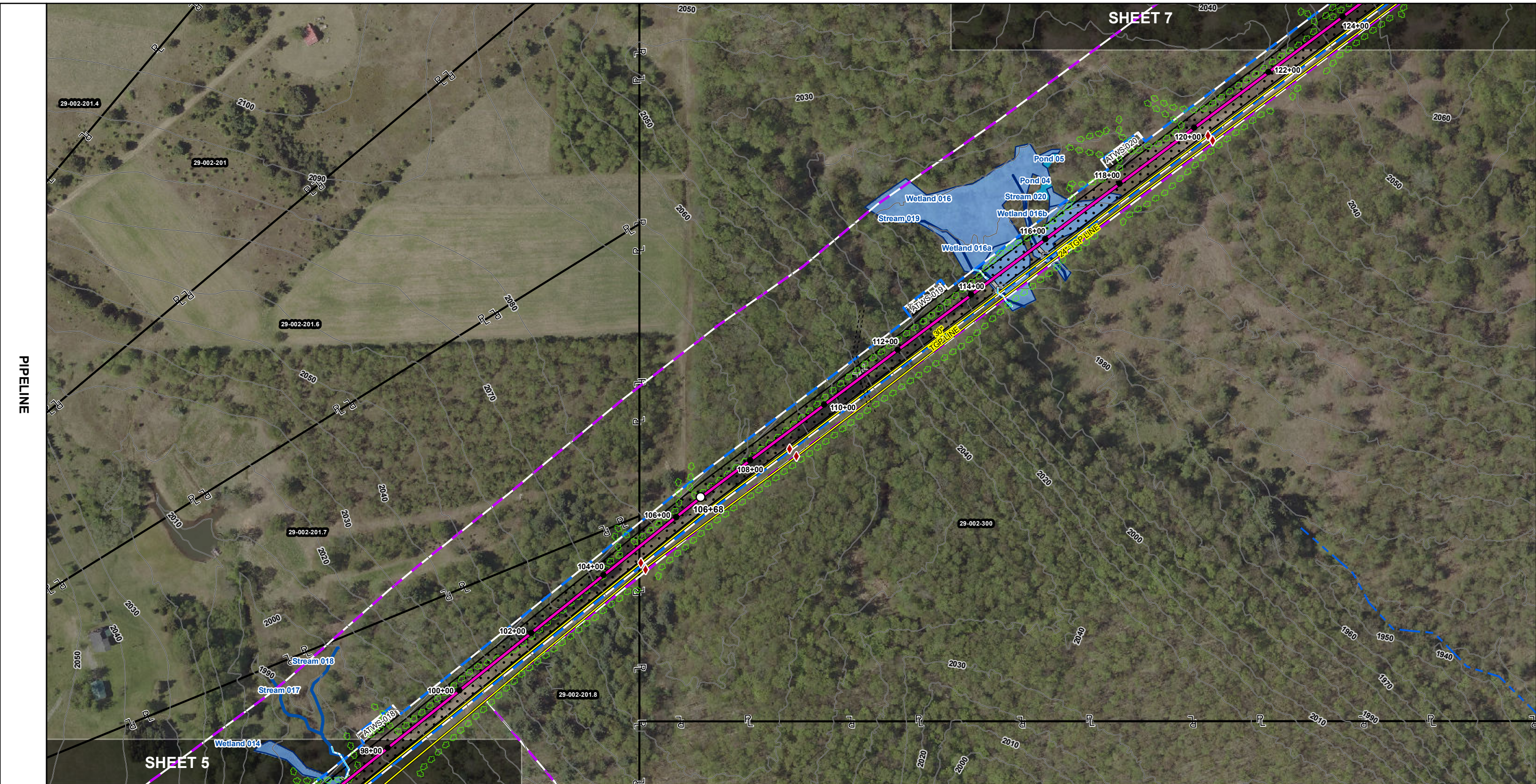
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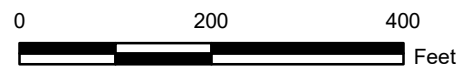
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SHEET 7

SHEET 5

FOOTAGE
DIAMETER/ WALL THICKNESS
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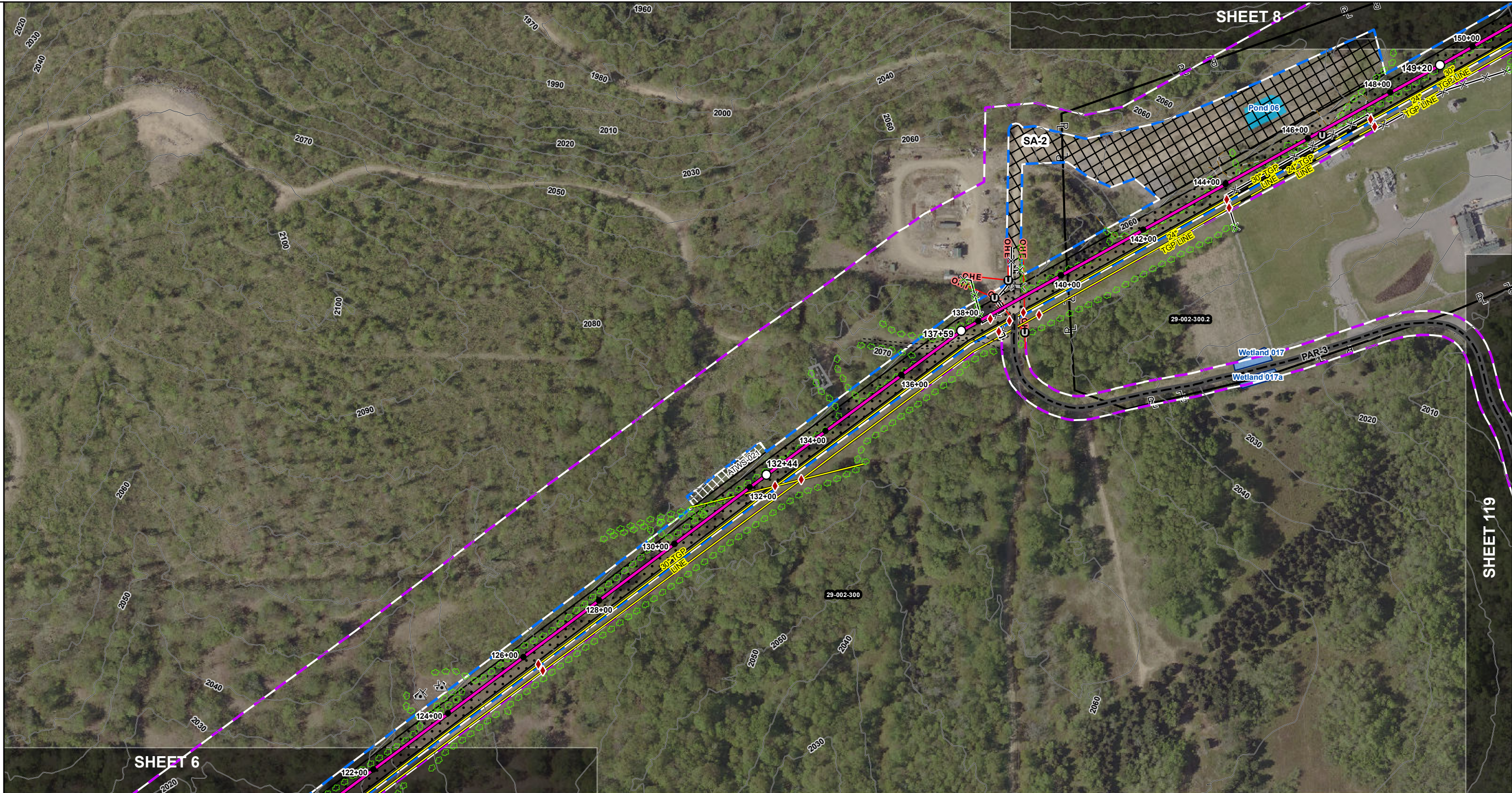
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PIPELINE



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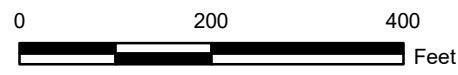
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FOOTAGE
DIAMETER/ WALL THICKNESS
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COATING



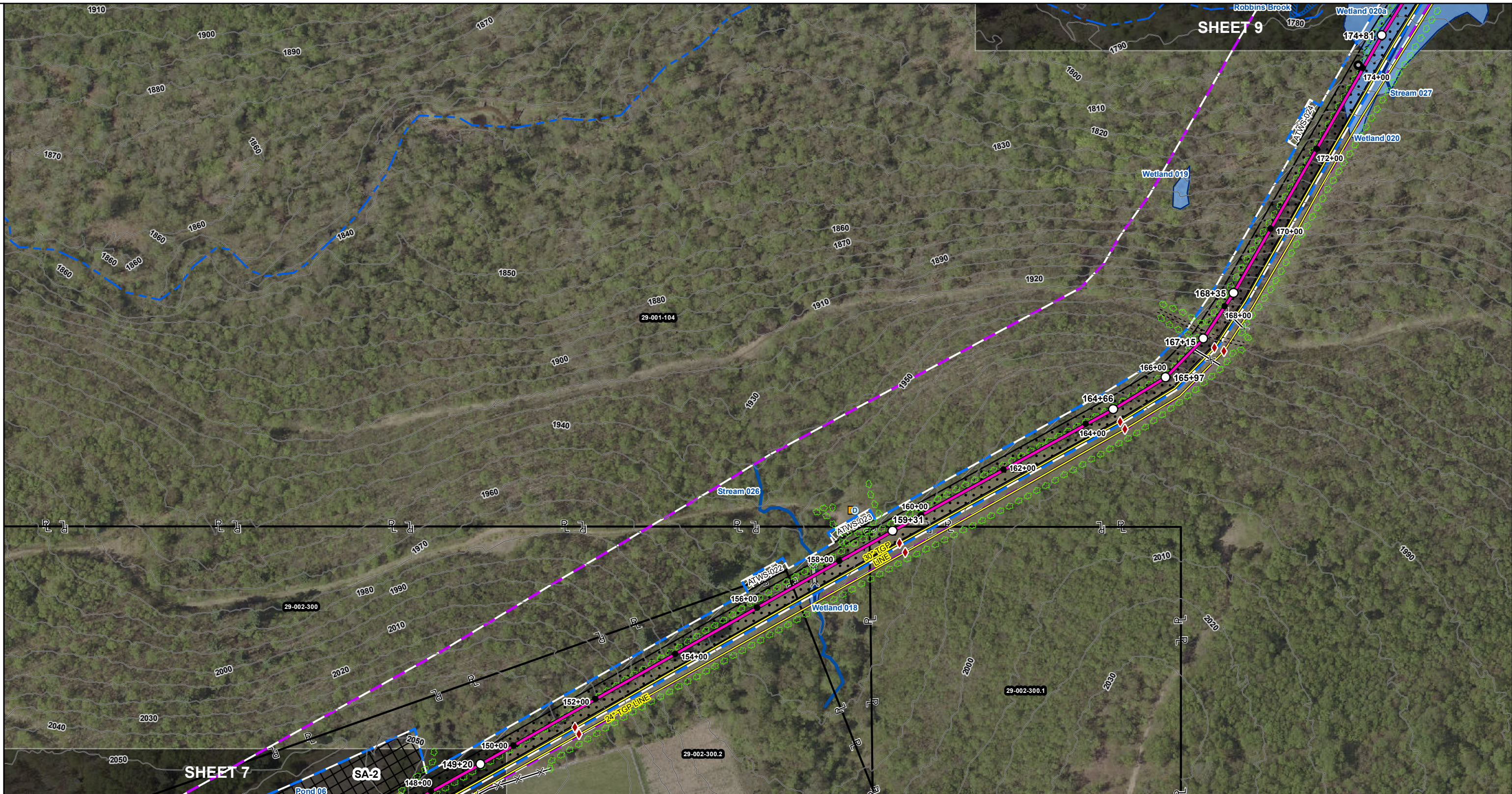
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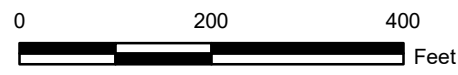
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PIPELINE



FOOTAGE
DIAMETER/ WALL THICKNESS
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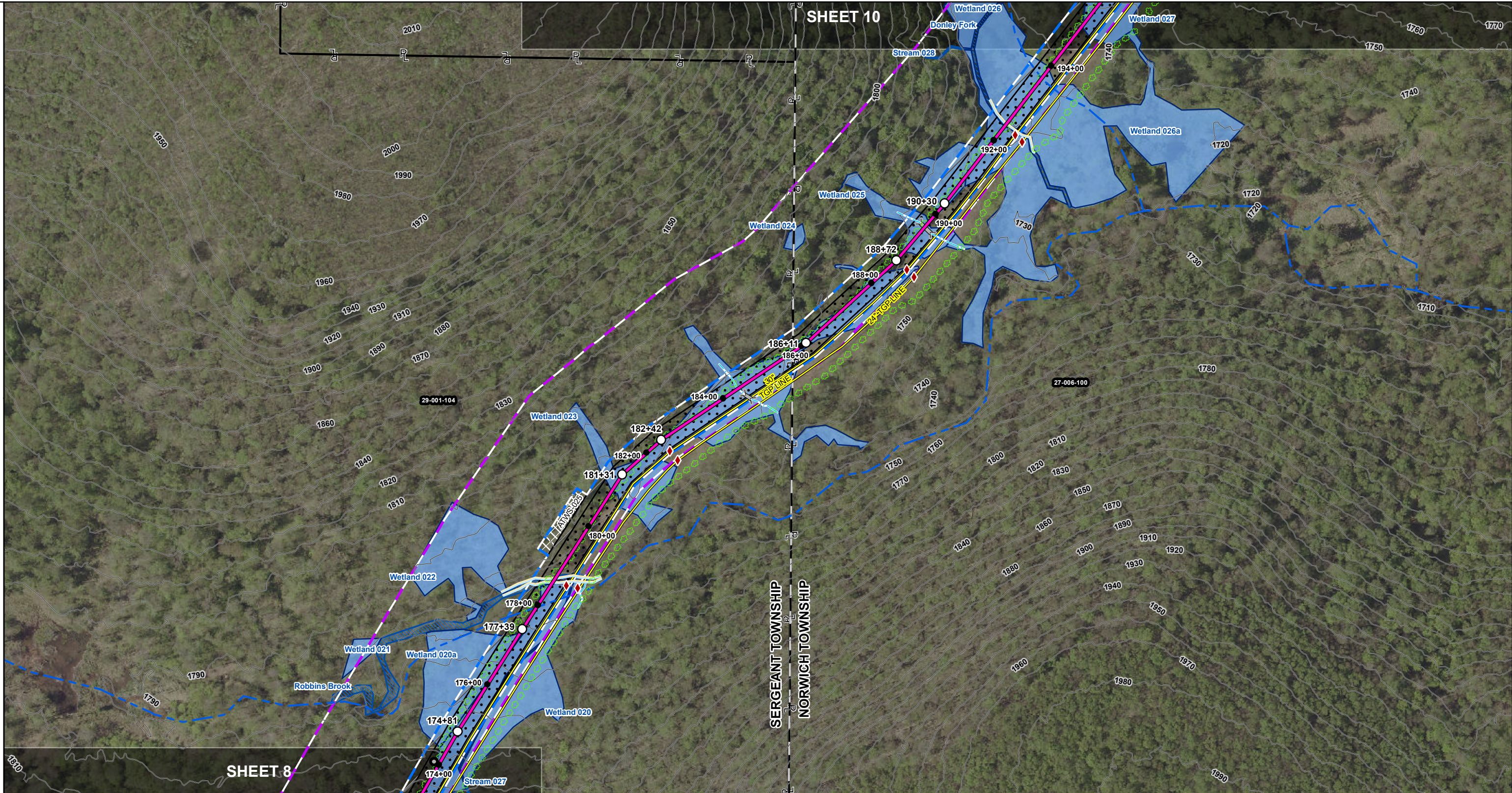
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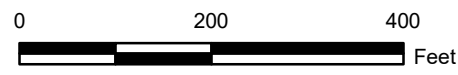
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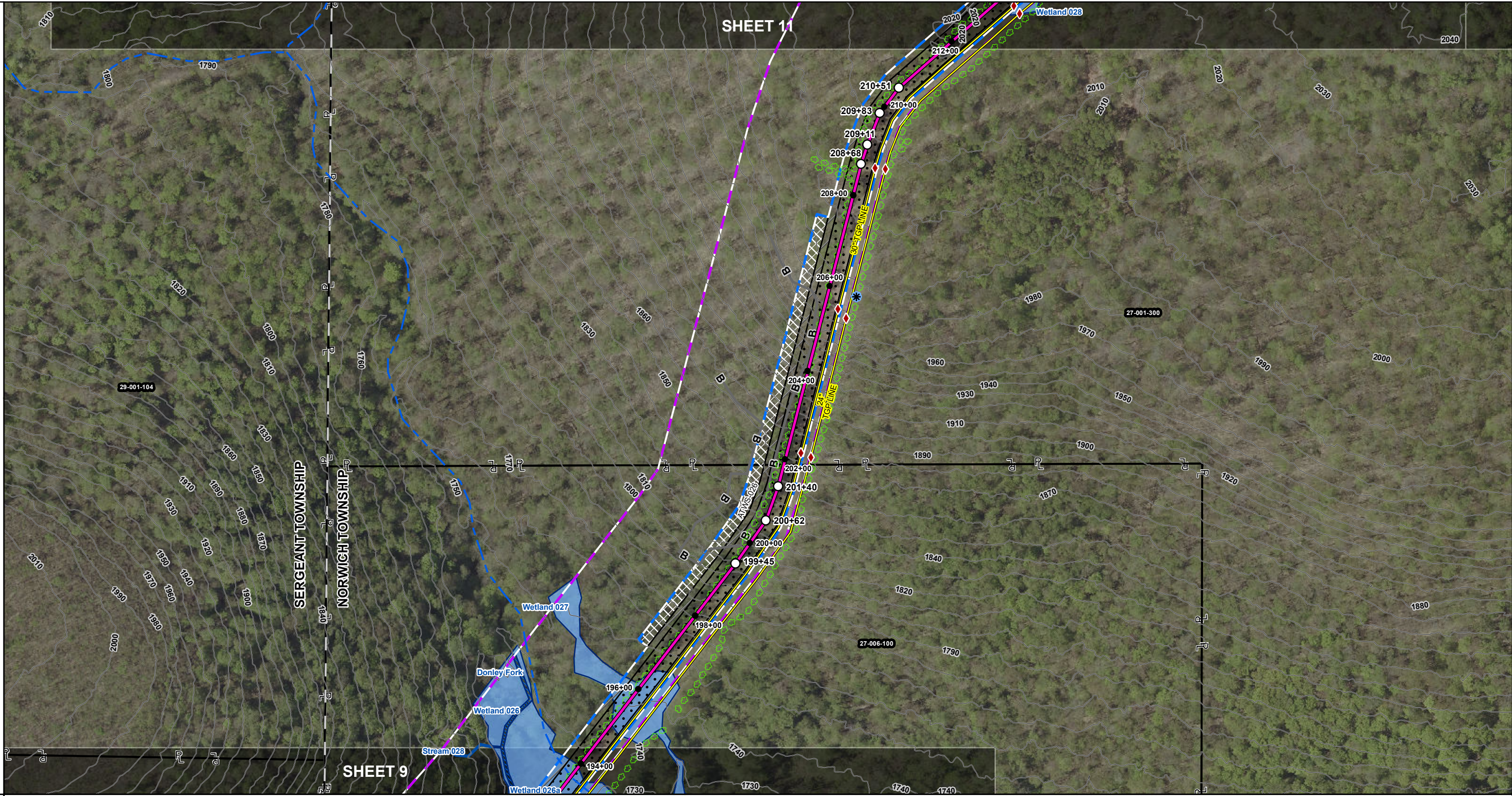
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SHEET 9

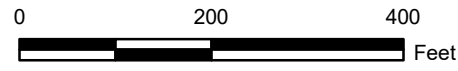
SERGEANT TOWNSHIP

NORWICH TOWNSHIP



FOOTAGE
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PIPELINE

SHEET 126

SHEET 12

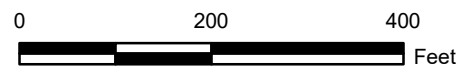
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SERGEANT TOWNSHIP
NORWICH TOWNSHIP

FOOTAGE
DIAMETER/ WALL THICKNESS
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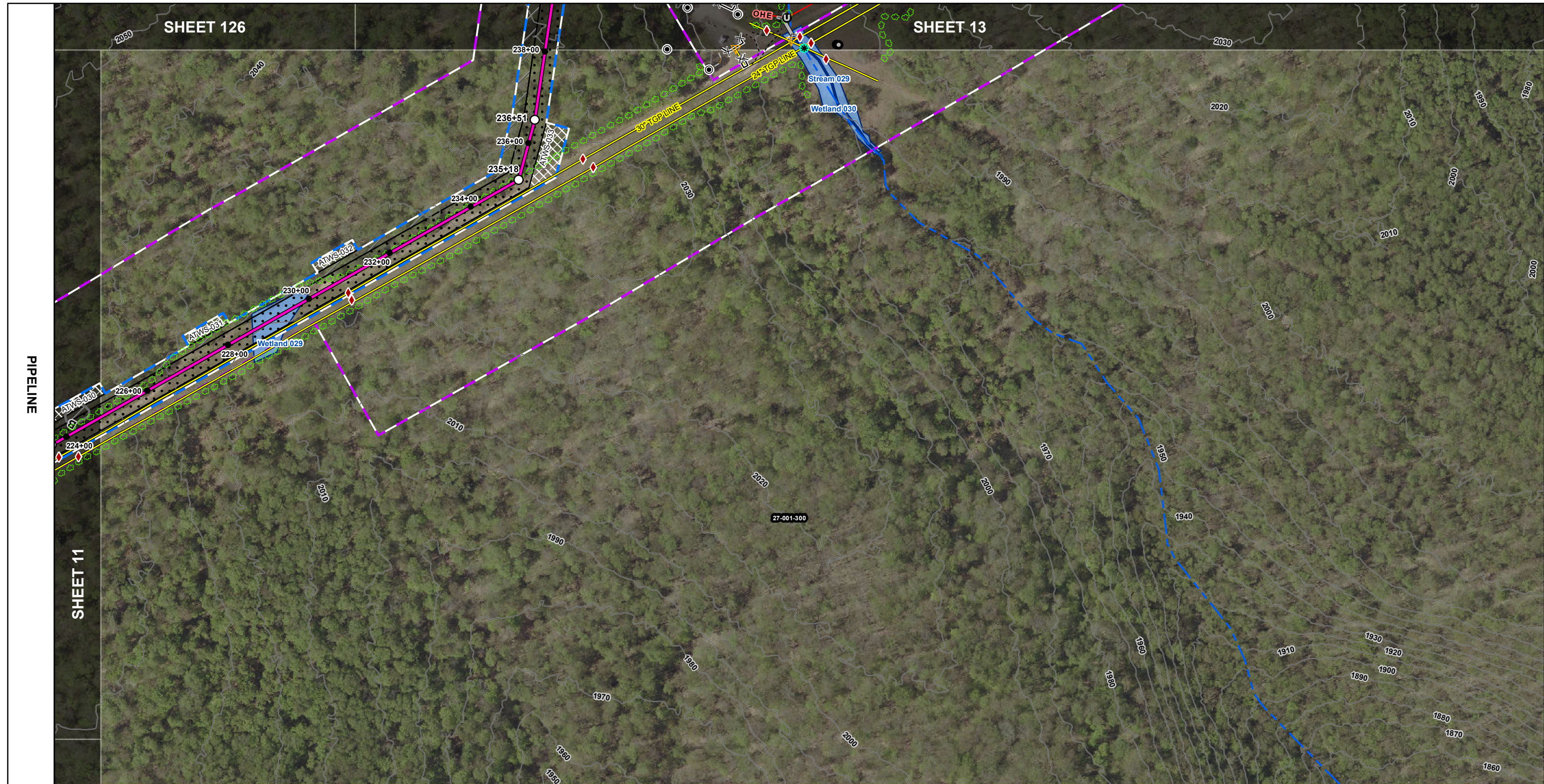
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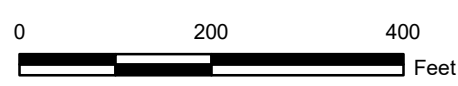
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REV	11
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FOOTAGE
DIAMETER/ WALL THICKNESS
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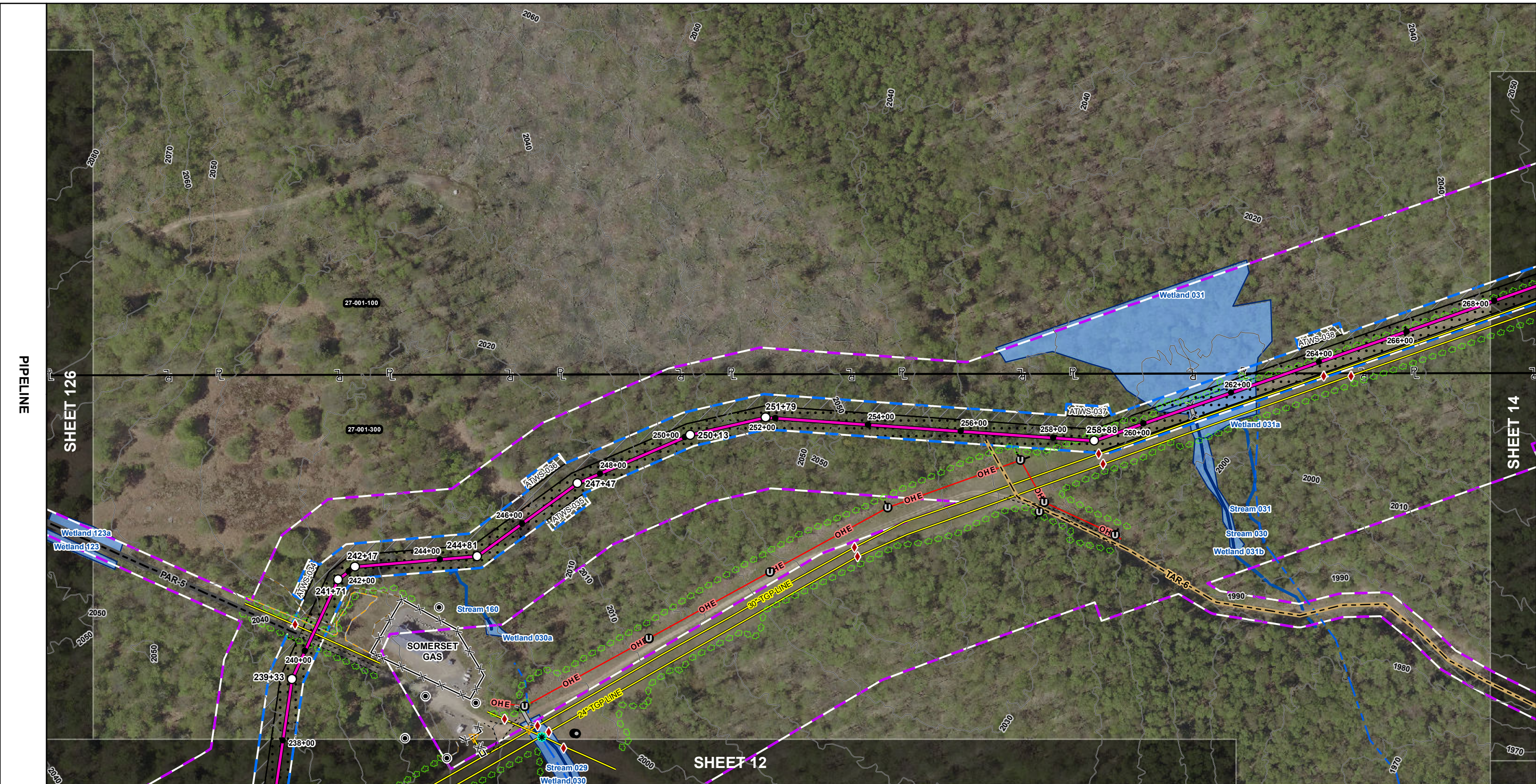
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PIPELINE

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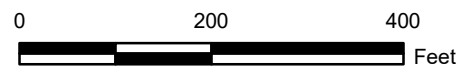
SHEET 14

SHEET 12



FOOTAGE
DIAMETER/ WALL THICKNESS
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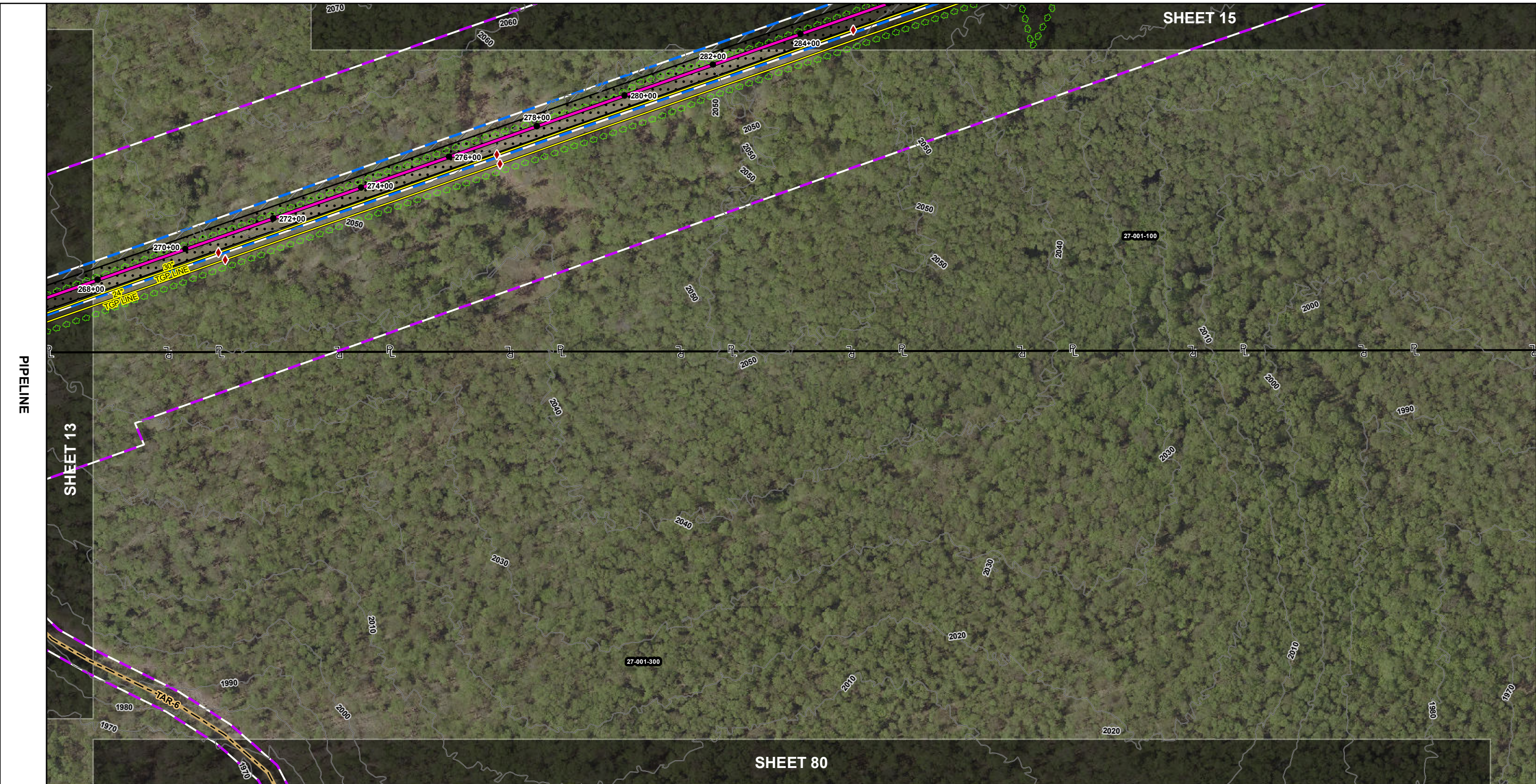
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PIPELINE

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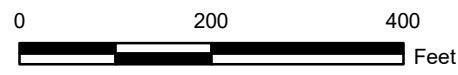
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FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING



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PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	14
U	142

PIPELINE

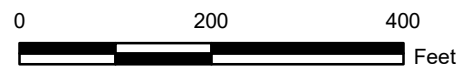
SHEET 16

SHEET 14

FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING

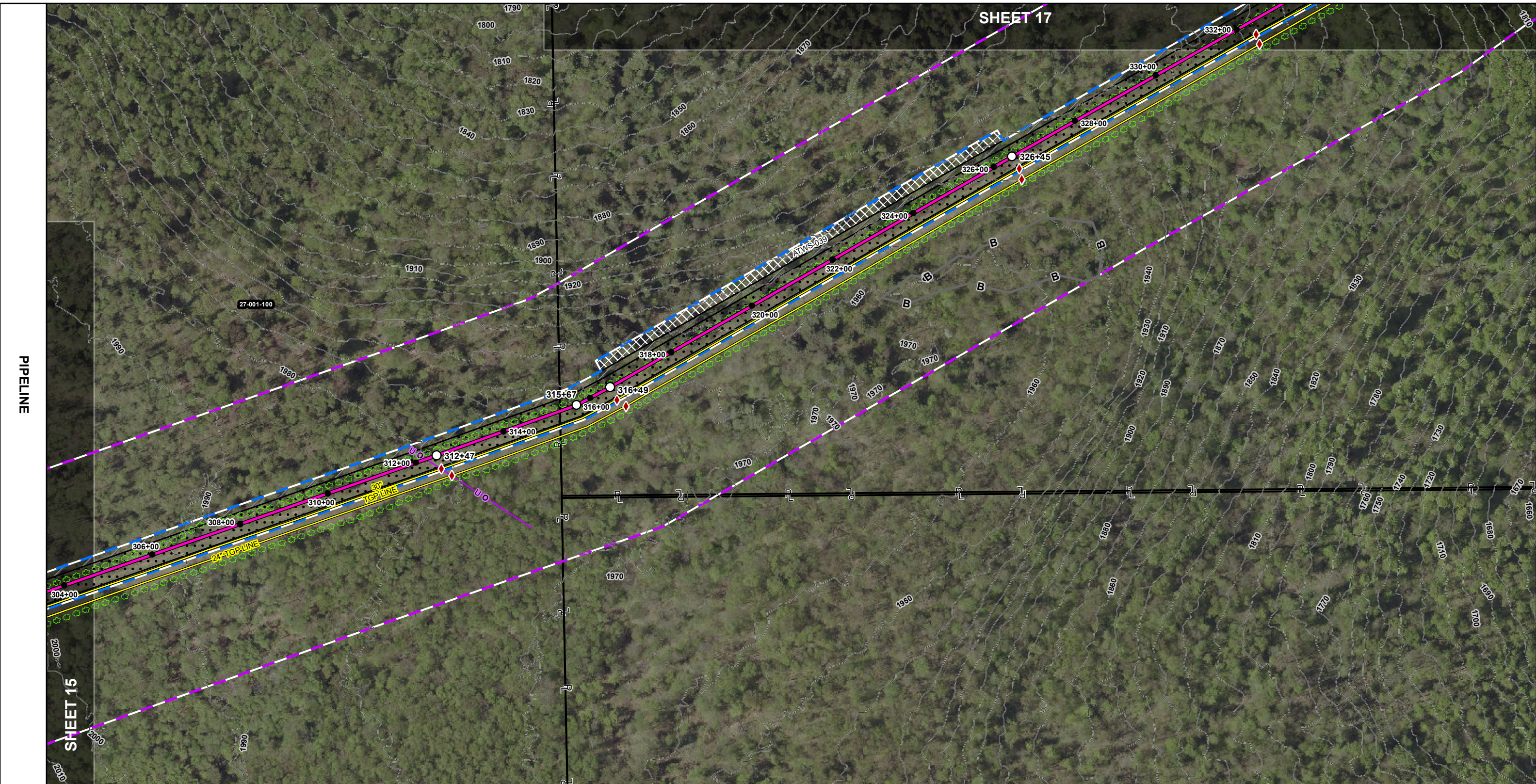


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PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	15
U	142



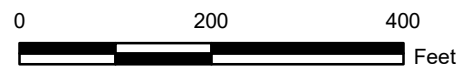
PIPELINE

SHEET 15

SHEET 17

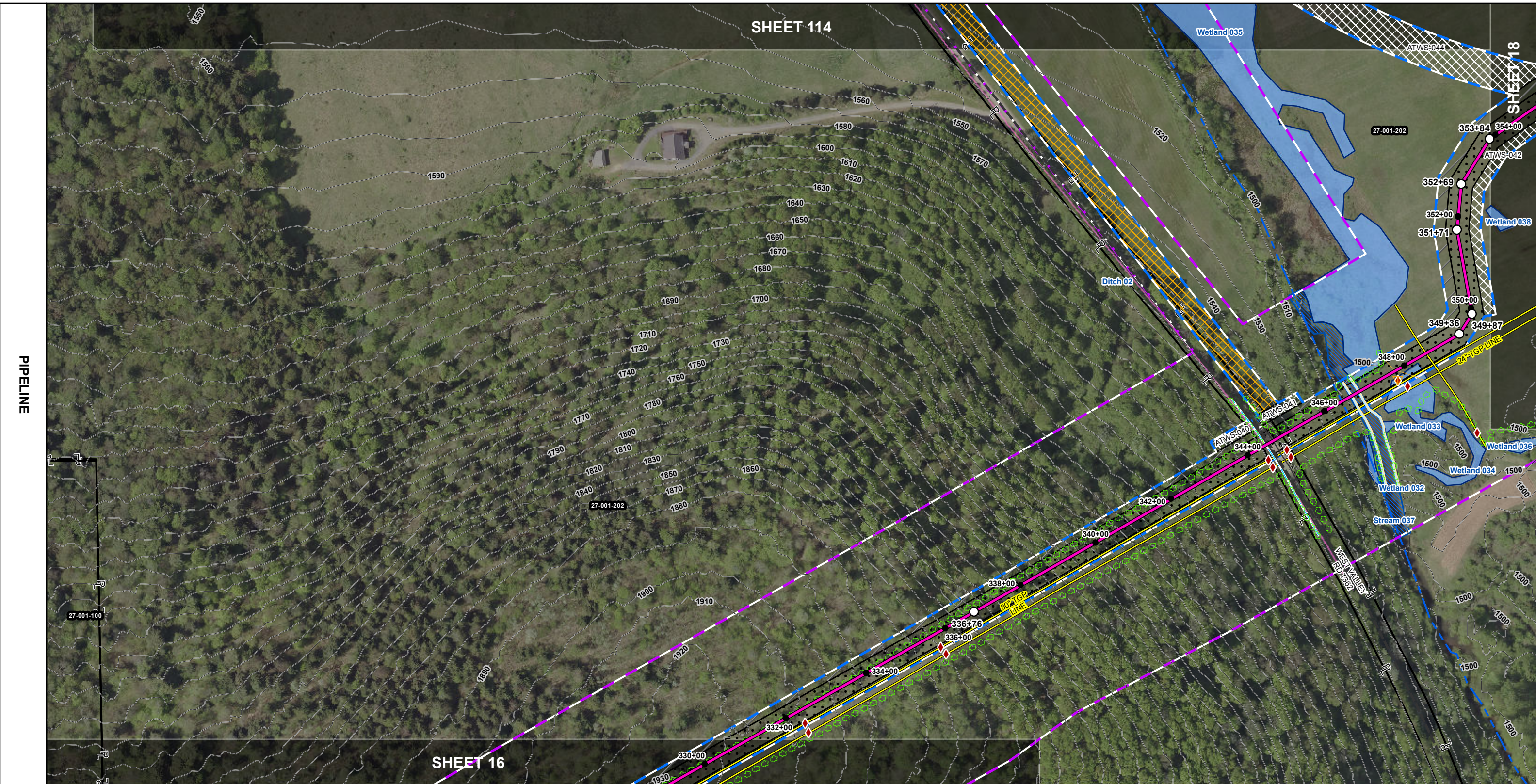
FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING

ISSUED FOR FERC
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Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

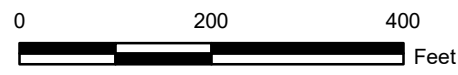
REV	16
U	142



PIPELINE

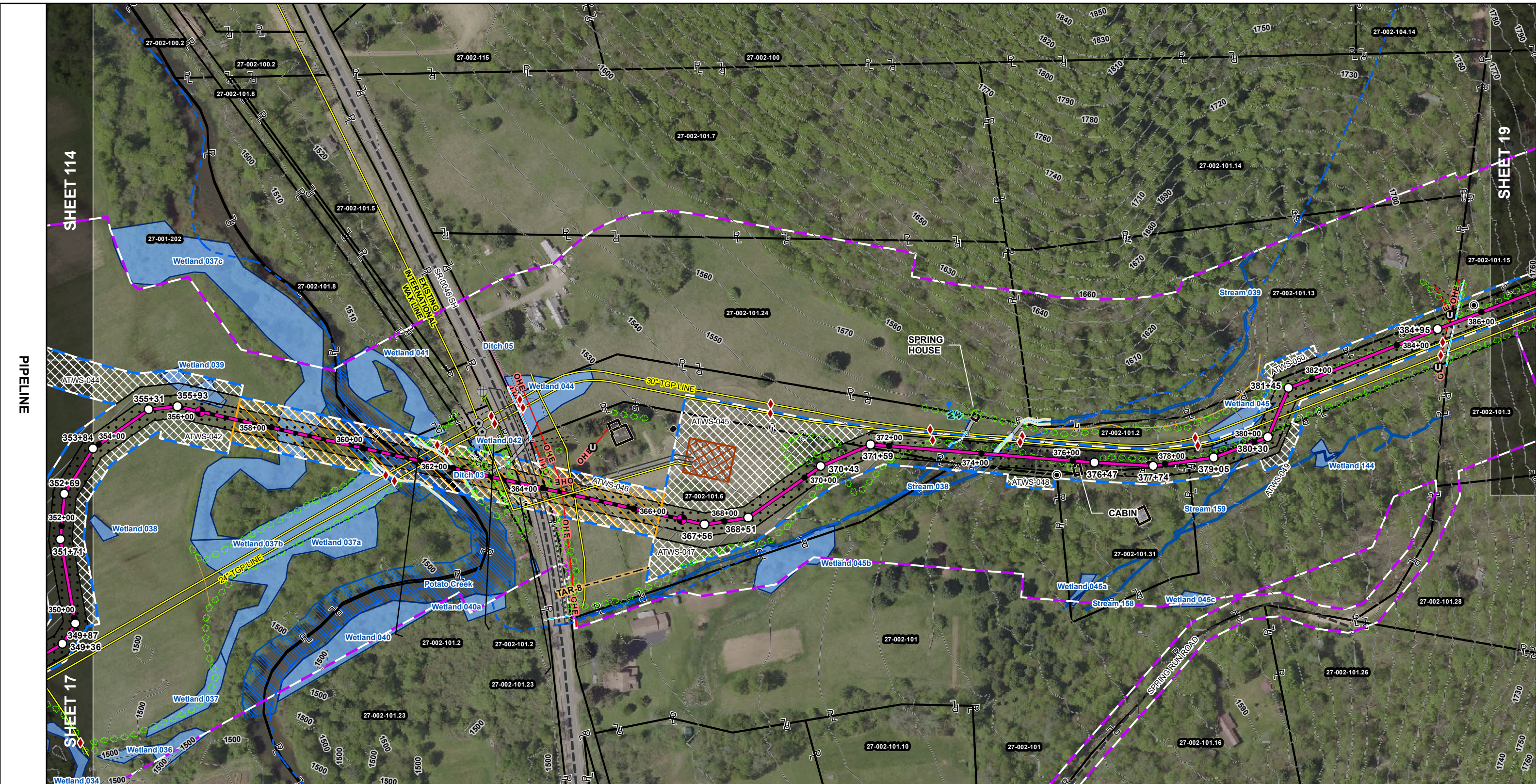
FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING

ISSUED FOR FERC
PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	17
U	142



FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING



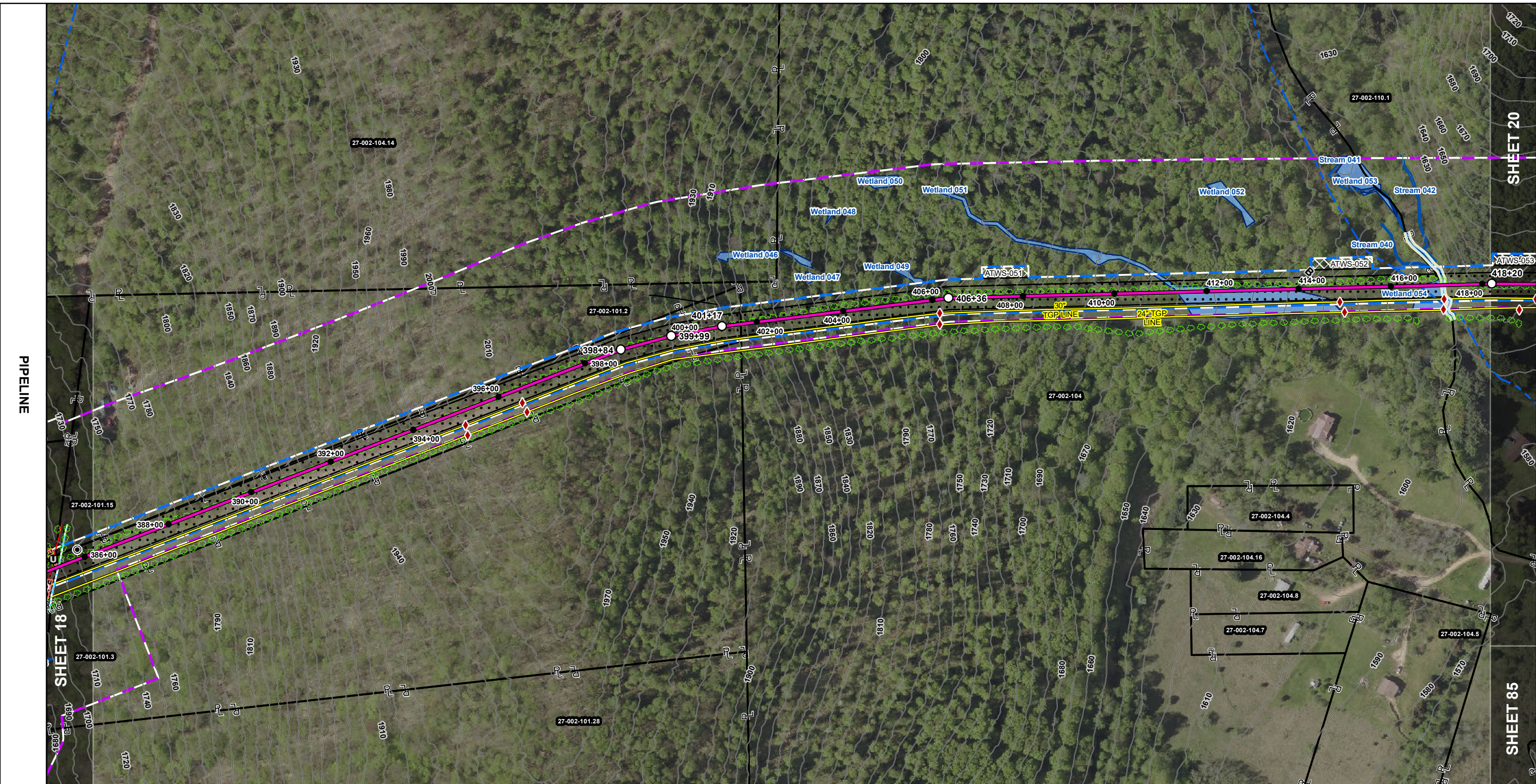
ISSUED FOR FERC

PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	18
U	142



FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING



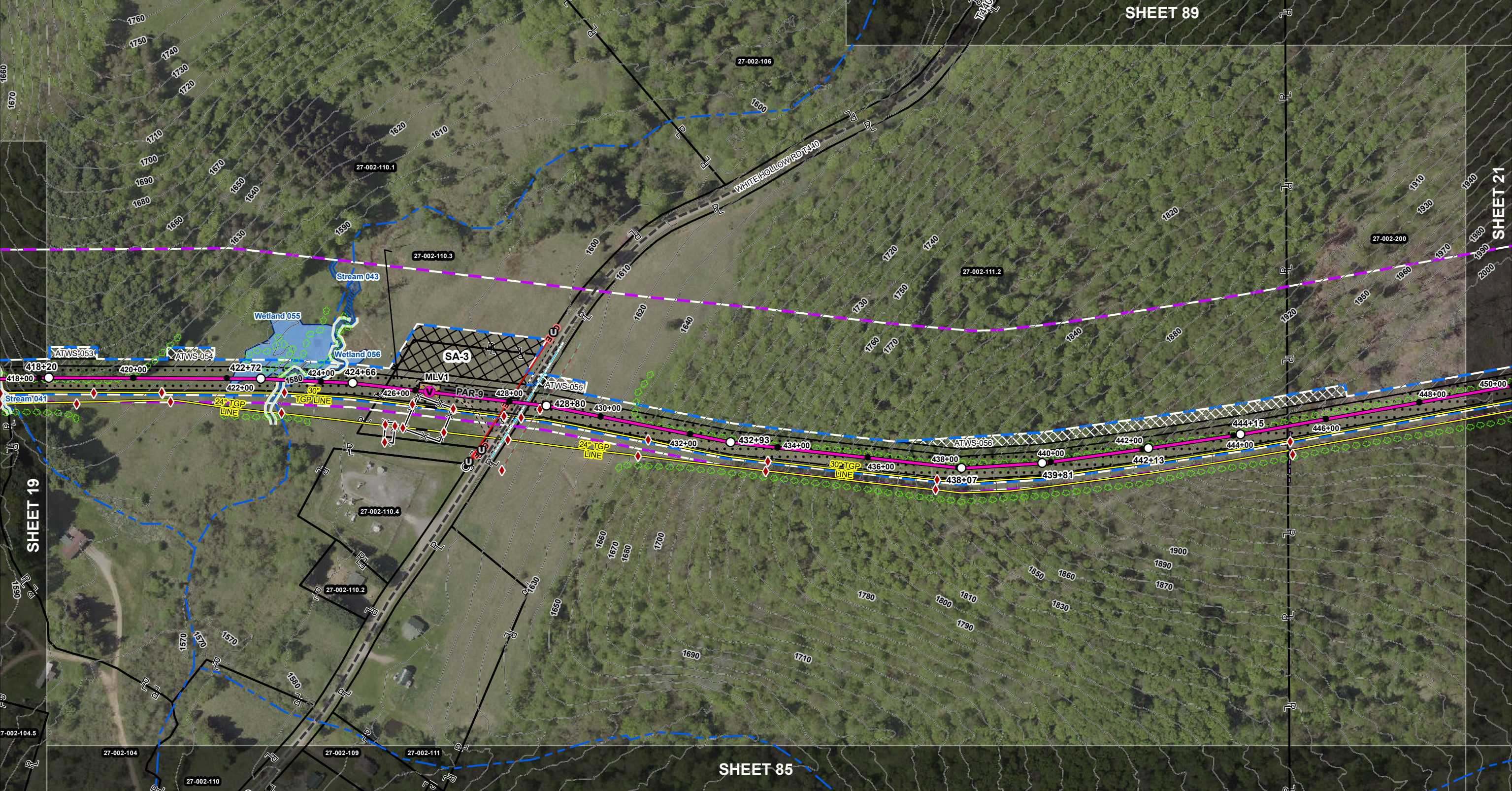
ISSUED FOR FERC

PRELIMINARY – NOT FOR CONSTRUCTION



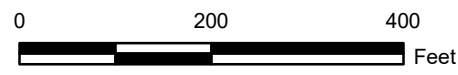
Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	19
U	142



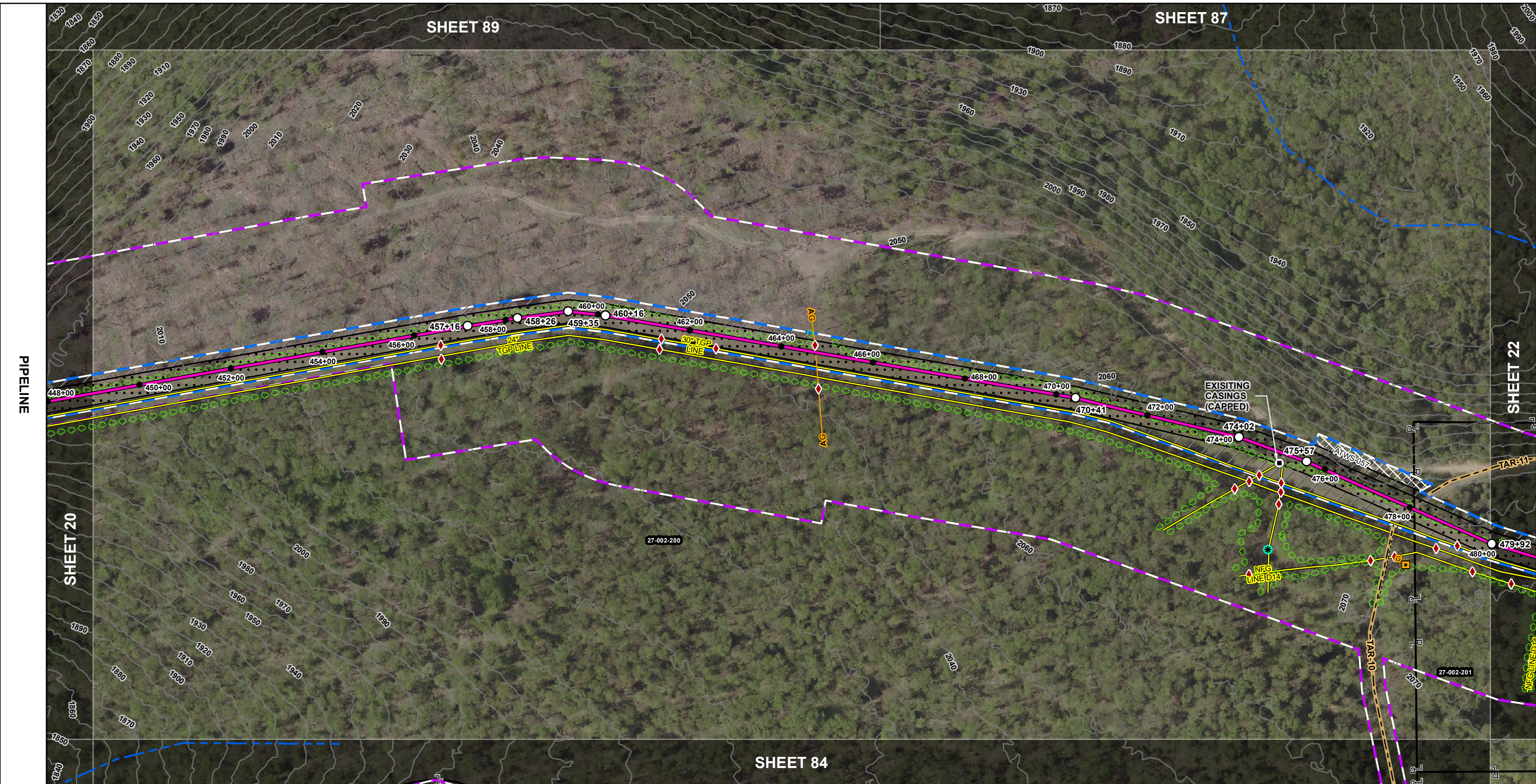
FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING

ISSUED FOR FERC
PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	20
U	142



FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING



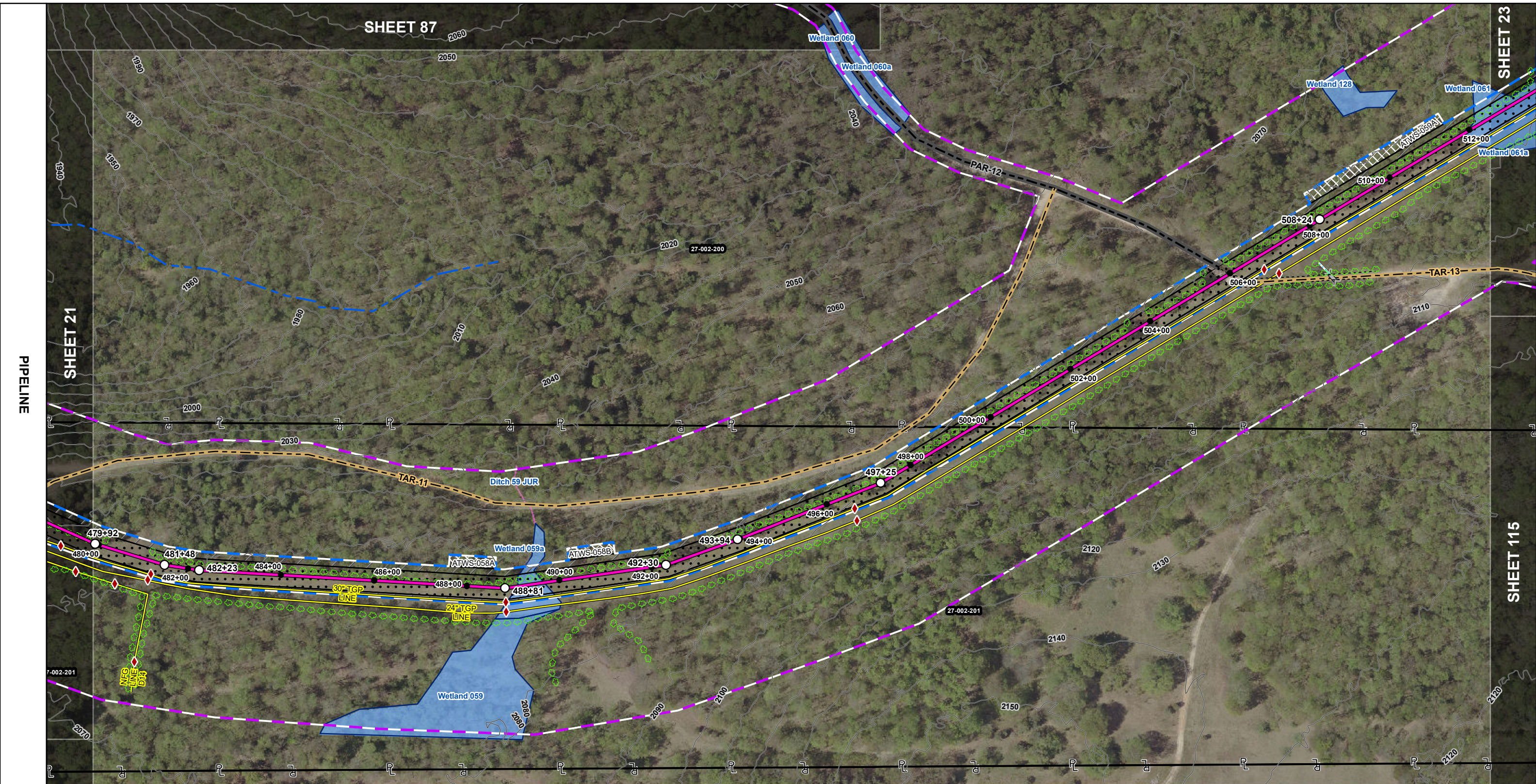
ISSUED FOR FERC

PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	21
U	142



FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING



ISSUED FOR FERC

PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	22
U	142



PIPELINE

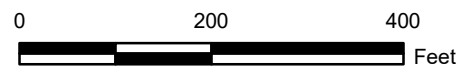
SHEET 24

SHEET 22

SHEET 115

FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING

ISSUED FOR FERC
PRELIMINARY – NOT FOR CONSTRUCTION

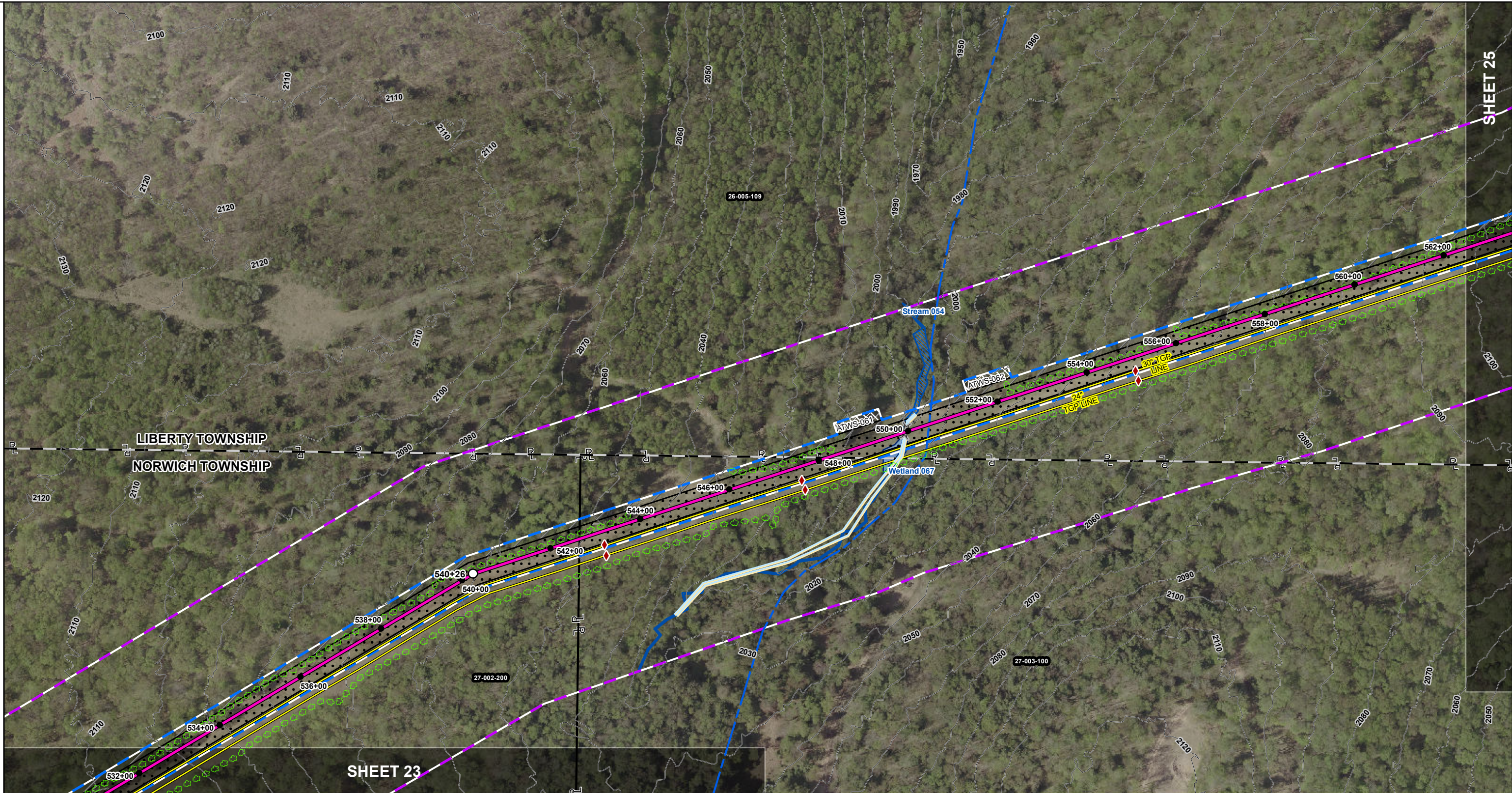


Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	23
U	142

PIPELINE

SHEET 25



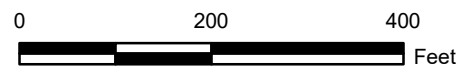
LIBERTY TOWNSHIP
NORWICH TOWNSHIP

SHEET 23

FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING

ISSUED FOR FERC

PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	24
U	142



FOOTAGE
DIAMETER/ WALL THICKNESS
GRADE
CLASS BY DESIGN
COATING



ISSUED FOR FERC
PRELIMINARY – NOT FOR CONSTRUCTION



Drawn By: Fisher Associates
 Chkd By: Fisher Associates
 Scale: 1" = 200'
 Date: September 27, 2019

REV	25
U	142