

**TIVERTON WASTEWATER DISTRICT AND THE TOWN OF TIVERTON, RHODE ISLAND**

**BID #26-002**

**REQUEST FOR PROPOSALS FOR SEWER CLEANING, CCTV SEWER, MANHOLE AND SOIL EROSION INSPECTION SERVICES**



**May 18, 2026**

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**TIVERTON WASTEWATER DISTRICT AND TOWN OF TIVERTON, RHODE  
ISLAND  
SEWER CLEANING, CCTV, MANHOLE AND SOIL EROSION INSPECTION  
SERVICES  
INVITATION TO BID**

Sealed bids for Sewer Cleaning and CCTV Inspection Services will be received by the Tiverton Wastewater District (TWWD) at the office of the Tiverton Wastewater District, 400 Fish Road, Tiverton, RI 02878, until 1:00 pm local time on June 9, 2026, at which time bids will be publicly opened and read aloud. The Town of Tiverton (TOT) is also a party to this invitation to bid and will work in conjunction with the TWWD in the review and selection of the successful contractor.

Any bid proposal received after said date and time, whether hand delivered, submitted via United States Postal Service, or submitted via any other delivery service, shall be declared invalid.

The Bidding Documents may be obtained online by downloading from the TWWD website <https://www.twwd.org/bidding-opportunities>; The Town of Tiverton website <https://www.tiverton.ri.gov/247/Requests-for-Proposals-Bids-RFPs> the Rhode Island Division of Purchases website <https://purchasing.ri.gov/bidding/externalbidsearch.aspx> or by emailing a request for bidding documents to [info@twwd.org](mailto:info@twwd.org). Bidders are responsible for printing all Bidding Documents for the bid submission. Bidding Documents may be viewed at the TWWD Office, 400 Fish Road, Tiverton, RI 02878 by appointment only Monday through Friday. Appointments may be scheduled by calling the TWWD Monday through Friday 9:00 am to 4:00 pm at 401-625-6701 or by emailing [info@twwd.org](mailto:info@twwd.org). TWWD will not be responsible for full or partial sets of Bidding Documents, including Addenda if any, obtained from sources other than the TWWD.

Bids must be submitted in an opaque envelope addressed to:

Tiverton Wastewater District  
400 Fish Road  
Tiverton, RI 02878

All bids must be clearly marked on the envelope exterior "SEALED BID: SEWER CLEANING, CCTV SEWER, MANHOLE AND EROSION INSPECTION SERVICES".

Bid security is not required to be submitted with the bid. However, bidders shall submit proof of qualifications with their bids to perform the Work as described in the "Information for Bidders."

No bidder may withdraw his bid within ninety (90) days after the bid opening. **TWWD and/or the Town of Tiverton reserves the right to reject any or all proposals or any part thereof, to waive any formality, informality, information and/or errors in the proposal, to accept the proposal considered to be in the best interest of the TWWD and/or the Town, or to solicit and purchase on the open market if it is considered in the best interest of the TWWD and/or the Town to do so.**

A non-mandatory Pre-bid conference will be held on 1:00 pm on May 27, 2026 at TWWD Offices, 400 Fish Road Tiverton RI, which may include a walk of cross-country sewer locations. From the date of issuance of this Request for Proposals until the opening of the received proposals. CONTRACTORS may not speak with TWWD or Town staff about this RFP. All questions or requests for clarification shall be filed in writing to Patricia Nannini, Office Manager via email at: pat@twwd.org no later than June 2, 2026, at 4:00 PM.

All questions will be answered by written Addenda which will be issued on the TWWD's webpage at <https://www.twwd.org/dashboard/bidding-opportunities/> the Town of Tiverton website <https://www.tiverton.ri.gov/247/Requests-for-Proposals-Bids-RFPs> and the State of Rhode Island's procurement page <https://purchasing.ri.gov/bidding/externalbidsearch.aspx> no later than June 4, 2026, at 4:00 PM. It is the responsibility of the proposer to check for any posted addenda and ensure that the submitted proposal includes said addenda. The TWWD is not responsible for any explanation, clarification, interpretation, or approval made or given in any other manner.

Failure to submit all information as detailed in the RFP documents and/or submission of an unbalanced or incomplete proposal is sufficient reason to declare a proposal as non-responsive and subject to disqualification.

The bid award is set forth in the enclosed specifications. Additional copies of the Specifications may be requested from the TWWD by calling 401-625-6701. This work includes inspections and cleaning of assets owned separately by TWWD and the Town of Tiverton. Where applicable, OWNER will refer to one or the other and will be specified in the documentation provided. Separate contracts will be entered for Town owned and TWWD owned sewers and manholes.

The TWWD Executive Director shall submit a list of bid results along with recommendation of a successful bidder to the TWWD Board of Directors and to the

Town Administrator of the Town of Tiverton for acceptance and award by and through the Town Council.

The Town of Tiverton and TWWD are Equal Opportunity Employers (EEO/AA)

Owner: Tiverton Wastewater District

By: Mark Nimiroski

Signature: 

Title: Executive Director

Date: May 18, 2026

**PROPOSAL DUE DATE/TIME: JUNE 9, 2026 - NO LATER THAN 1:00 PM**

**TIVERTON WASTEWATER DISTRICT AND TOWN OF TIVERTON, RHODE  
ISLAND  
SEWER CLEANING, CCTV, MANHOLE AND EROSION CONTROL INSPECTION  
SERVICES  
INFORMATION FOR BIDDERS**

1. Receipt and Opening of Bid Proposals

- a. Sealed bids will be accepted by the TWWD until the date and time indicated on the Invitation to Bid for the labor, equipment and materials designated in the Specifications and will then be publicly opened and read aloud.
- b. Bid results will be posted on the TWWD and the Town of Tiverton's website following the bid opening.
- c. Any bidder may withdraw his bid by written request prior to the advertised bid opening date and time. Verbal or telephone bids, amendments, or withdrawals will not be accepted.
- d. Unless otherwise specified, no bid may be withdrawn for a period of ninety (90) calendar days following the bid.
- e. Negligence on the part of the Bidder in preparing the Bid confers no right for withdrawal of the Bid after it has been opened.
- f. Proposals received prior to the time of the bid opening will be securely kept unopened. No officer or person shall be responsible for the premature opening of a bid proposal not properly addressed and identified.

2. Form of Bid

- a. Bid proposals must be submitted on and in accordance with the forms attached hereto. A responsive bid must have all blank places filled in as noted, must have no changes made by the bidder in the wording of the proposal or in the item mentioned therein, must contain the name and proper address of the Bidder, and must be signed by a responsible member of the firm with his signature and official title. Proposals which are not complete or contain any omissions, erasures, alterations, additions or irregularities of any kind, may be rejected.

3. Bid Prices

- a. Bidders shall state the proposed price in the manner as designated in the Bid Proposal. In the event of a discrepancy between the unit price in words and unit price in figures, the price written in words shall govern.

4. Rhode Island Sales Tax

- a. Purchases made by the TWWD and the Town of Tiverton are exempt from payment of Federal Excise Taxes and Rhode Island Tax on Retail Sales.

5. Wages

- a. For contracts involving construction, alteration, repair of public works, the provisions of State Labor Laws concerning payment of prevailing wage rates apply (See RI General Laws Sec. 37-13-1 et seq. as amended). The successful bidder shall be responsible for submitting certified payroll records.
6. Basis of Award
  - a. TWWD and the TOT anticipate awarding the services of the work to the lowest qualified, responsive and responsible bidder. TWWD and the TOT will solicit the low bidder first in each instance of requested services.
  - b. Where prices are the same, TWWD and TOT reserves the right to award to the bidder the best meets the needs of both.
  - c. TWWD and the TOT reserves the right to reject any or all bids or to accept the bid it deems to be in its best interest.
7. Determination of Qualifications, Eligibility and Responsibility
  - a. **Bidders shall demonstrate at least five (5) years' experience performing sewer cleaning and sewer CCTV inspection work for municipalities or governmental agencies to be considered for award.**
  - b. A bidder who is an out-of-state corporation shall qualify or register to transact business in Rhode Island, in accordance with Rhode Island General Laws (as amended) in the Rhode Island Business Corporation Act, RIGL Section 7-1.2-1401, et seq.
  - c. No bid will be accepted if made in collusion with any other bidder.
  - d. The TWWD and the TOT in considering each proposal, shall, prior to any determination and subsequent award, investigate and evaluate the contractor to determine whether they are responsible. Consideration may be given to references and other available information indicating the contractor's prior experience in providing similar services, the financial and organizational status of the contractor, and the contractor's prior compliance with applicable laws, ordinances, rules and regulations. No contract will be awarded to any contractor who, as determined by the TWWD and the TOT, is not qualified to perform satisfactory service due to an unsatisfactory record or inadequate experience, or who lacks the necessary capital, organization, or equipment to conduct and complete the services in strict accordance with the specifications.
  - e. After the opening of sealed proposals, but before the award is made, the TWWD and the TOT may require additional information, either technical or general, from any of the qualified contractors in order to determine the award. The information shall be supplemental in nature and may not add to, detract from, or conflict with the contents of the original sealed proposal.

- f. No provision in this request for proposals should be construed to require an award to a contractor who submitted background information, when investigated and verified by the awarding authority, raises significant questions as to its ability to successfully provide the services required.

8. Insurance

- a. The successful Contractor(s) must maintain at no additional cost to the TWWD and the TOT the following insurance coverages written by a company qualified to do business in the State of Rhode Island and satisfactory to TWWD and the TOT. The following insurance coverages must be maintained until the termination of the contract:
  - i. Worker's Compensation and Employer's Liability Insurance- \$500,000
  - ii. General Liability Insurance
    - 1. Each Occurrence - \$2,000,000
    - 2. Bodily Injury Liability - \$500,000 each person
    - 3. Property Damage Liability - \$500,000 each occurrence
    - 4. Automobile Liability Combined Single Limit insurance covering all owned vehicles, hired vehicles, or non-owned vehicles in the minimum amount for all damages on account of personal injuries and/or property damage - \$1,000,000.00.
    - 5. Umbrella/Excess Liability: The contractor will maintain coverage applying over the underlying Commercial General Liability, Automobile Liability, Pollution Liability (where applicable), and Employer Liability section of the Workers Compensation coverage. Minimum Limits: \$2,000,000 per occurrence/\$2,000,000 annual aggregate. Coverage applies over the underlying General Liability, Automobile Liability, and Employer Liability section of the Workers Compensation Coverage.
- b. The successful Contractor shall provide certificate of insurance within 10 calendar days of the acceptance of the bid by TWWD and the Town of Tiverton. The certificate shall name Tiverton Wastewater District and the Town of Tiverton as additionally insured. All insurers of the Contractor shall be notified that a copy of any notice of cancellation shall be sent to the Tiverton Wastewater District and the Town of Tiverton.
- c. The successful Contractor shall indemnify and hold harmless the TWWD and the Town of Tiverton during the term of the contract from and against all loss or damages arising from the performance under the contract

including all claims for personal injury or damages to property sustained by third persons, or their agents, servants and/or those claimed under them.

9. Worker's Compensation Act

- a. The successful bidder shall, prior to commencing performance under the contract, attach and submit evidence that they have complied with the provisions of the Rhode Island Worker's Compensation Act Title 28, Chapter 29, Section 1, et seq. If the successful bidder is exempt from compliance under the Worker's Compensation Act, an officer of the successful bidder shall so state by way of sworn Affidavit, which shall accompany the signed contract.

10. Schedule of Payment

- a. Payments for completed and accepted work shall be made by the awarding authority within thirty (30) days of delivery and acceptance. Payments will be invoiced and paid separately by the OWNER of the assets.

11. Performance and Payment Bonds:

- a. This section is not applicable.

12. Contract Time

Contract shall be completed within one year of the notice to proceed. The contractor must provide TWWD and the Town of Tiverton with a project schedule within two weeks of receiving the Notice to Proceed. A schedule update shall be submitted with each requisition for payment. In the event more time is necessary to complete the work specified, the Contractor shall request a time extension in writing to TWWD and the TOT at least two weeks prior to the deadline explaining the reasons for the extension. TWWD and the Town of Tiverton reserves the sole right to negotiate a successor agreement for continuation of services of a similar nature and pertinent to this Scope of Work with the selected vendor at the discretion of the TWWD executive director and staff with approval authority from the board of directors and the discretion of the Town Administrator and staff with approval authority from the Tiverton Town Council.

**TIVERTON WASTEWATER DISTRICT AND TOWN OF TIVERTON, RHODE ISLAND**  
**SEWER CLEANING CCTV, MANHOLE AND EROSION INSPECTION SERVICES**  
**BID FORM**

\_\_\_\_\_ ( Company Name) hereby proposes to furnish the Tiverton Wastewater District and the Town of Tiverton (“Town”) the following labor, equipment, and materials in accordance with the Specifications contained herein and at the prices indicated below:

Base Bid:

Item No.	Estimated Quantity	Unit of Measure	Item Description & Unit Price	Extended Price
1	22,000	Linear Foot	CCTV Inspection 6 thru 24-Inch Sewer Main  _____ Dollars (In words) And _____ Cents  \$ _____ (In Figures)	\$ _____ (In Figures)
2	12,040	Linear Foot	Light Cleaning 6 thru 24 -Inch Sewer Main  _____ Dollars (In Words) And _____ Cents  \$ _____ (In Figures)	\$ _____ (In Figures)
3	5,160	Linear Foot	Heavy Cleaning 6 thru 24 -Inch Sewer Main  _____ Dollars (In Words) And _____ Cents  \$ _____ (In Figures)	\$ _____ (In Figures)
4	1,200	Linear Foot	Root cut 6 thru 24 -Inch Sewer Main  _____ Dollars	\$ _____ (In Figures)

			(In Words) And _____ Cents  \$ _____ (In Figures)	
5	12	Ton	Remove, Transport and Dispose Debris/Residuals From Cleaning Operations  _____ Dollars (In Words) And _____ Cents  \$ _____ (In Figures)	\$ _____ (In Figures)

Item No.	Estimated Quantity	Unit of Measure	Item Description & Unit Price	Extended Price
6	250	Each	Manhole Inspection  _____ Dollars (In Words) And _____ Cents  \$ _____ (In Figures)	\$ _____ (In Figures)
7	1		Mt. Hope Interceptor Erosion Control Inspection (lump sum)  _____ Dollars (In Words) And _____ Cents  \$ _____ (In Figures)	\$ _____ (In Figures)

The Total Amount of the Base Bid as computed by the Bidder, is:

\_\_\_\_\_ Dollars  
(In Words)  
And \_\_\_\_\_ Cents  
\$ \_\_\_\_\_  
(In Figures)

In the event of a discrepancy between words and figures provided above, the amount written in words shall govern.

Contract footage is estimated to be approximately 15,000 linear feet of the gravity sewer and 5,000 linear feet of the force main portions of the Mt. Hope Interceptor owned by the Town of Tiverton and 2,000 linear feet of gravity sewer owned by the TWWD.

BIDDER: [Indicate correct name of bidding entity]

By: [Signature]

[Printed name]

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature]

[Printed name]

Title:

Submittal Date:

Address for giving notices:

Telephone Number:

Fax Number:

Contact Name and e-mail address:

Bidder's License No.:

*(where applicable)*

**TIVERTON WASTEWATER DISTRICT, RHODE ISLAND, AND TOWN OF  
TIVERTON, RHODE ISLAND  
NON-COLLUSIVE BID STATEMENT**

All bidders are required to sign a Non-Collusive Statement with all public bids as follows:

1. The bid has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with, any other vendor of materials, supplies, equipment, or services described in the Request for Proposals, designed to limit independent bidding or competition,

And

2. The contents of the bid have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid and will not be communicated to any such person prior to the opening of the bid.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Company

\_\_\_\_\_  
Date

**TIVERTON WASTEWATER DISTRICT AND THE TOWN OF TIVERTON, RHODE ISLAND  
SEWER CLEANING, CCTV SEWER INSPECTION AND  
MANHOLE INSPECTION SERVICES  
BIDDER EXPERIENCE STATEMENT**

The following experience sheet shall be completed by each bidder and submitted with their bid. **Any bid submitted without a completed experience sheet shall be rejected by the Owner.** Bidders shall demonstrate a minimum of five (5) years' experience performing sewer line cleaning and CCTV inspection work for municipalities or government agencies in accordance with NASSCO Pipeline Assessment and Certification Program (PACP) standards and Manhole Assessment Certification Program (MACP) standards. Any bidder that does not meet this requirement will not be considered a responsible bidder and therefore the bid will be rejected.

1. Have you ever failed to complete any work awarded to you? If so, state why.

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2. Bidder has been in business under the present name \_\_\_\_\_ for \_\_\_\_\_ ( \_\_\_\_\_ ) years.

3. List three (3) similar projects completed or on-call contracts for similar work within the past three (3) years by your firm under the present name as the principal contractor.

Project 1: \_\_\_\_\_

Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_

Reference Contact: \_\_\_\_\_ Phone Number \_\_\_\_\_

Project 2: \_\_\_\_\_

Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_

Reference Contact: \_\_\_\_\_ Phone Number \_\_\_\_\_

Project 3: \_\_\_\_\_

Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_

Reference Contact: \_\_\_\_\_ Phone Number \_\_\_\_\_

4. List the PACP and certifications of all CCTV operators that will be working on this project.

Employee's Name \_\_\_\_\_

PACP Certification number \_\_\_\_\_ \_MACP Certification Number \_\_\_\_\_

Employee's Name \_\_\_\_\_

PACP Certification number \_\_\_\_\_ \_MACP Certification Number \_\_\_\_\_

Employee's Name \_\_\_\_\_

PACP Certification number \_\_\_\_\_ \_MACP Certification Number \_\_\_\_\_

Employee's Name \_\_\_\_\_

PACP Certification number \_\_\_\_\_ \_MACP Certification Number \_\_\_\_\_

**TIVERTON WASTEWATER DISTRICT AND THE TOWN OF TIVERTON, RHODE  
ISLAND  
EROSION INSPECTION SERVICES  
BIDDER EXPERIENCE STATEMENT**

The following experience sheet shall be completed by each bidder and submitted with their bid. **Any bid submitted without a completed experience sheet shall be rejected by the Owner.** Bidders shall demonstrate a minimum of five (5) years' experience performing erosion inspection work for municipalities or government agencies that inspections shall be completed by a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Stormwater Quality (CPSWQ), or a Rhode Island Registered Professional Engineer. Any bidder that does not meet this requirement will not be considered a responsible bidder and therefore the bid will be rejected.

1. Have you ever failed to complete any work awarded to you? If so, state why.

---

---

2. Bidder has been in business under the present name  
\_\_\_\_\_ for \_\_\_\_\_ ( \_\_\_\_\_ ) years.

3. List three (3) similar projects completed or on-call contracts for similar work within the past three (3) years by your firm under the present name as the principal contractor.

Project 1: \_\_\_\_\_

Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_

Reference Contact: \_\_\_\_\_ Phone Number \_\_\_\_\_

Project 2: \_\_\_\_\_

Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_

Reference Contact: \_\_\_\_\_ Phone Number \_\_\_\_\_

Project 3: \_\_\_\_\_

Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_

Reference Contact: \_\_\_\_\_ Phone Number \_\_\_\_\_

4. List the certifications/qualifications of inspectors and other staff that will be working on this project.

Employee's Name \_\_\_\_\_

Certification \_\_\_\_\_

\_Experience \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Employee's Name \_\_\_\_\_

Certification \_\_\_\_\_

\_Experience \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Employee's Name \_\_\_\_\_

Certification \_\_\_\_\_

\_Experience \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

END OF BID FORM

**TIVERTON WASTEWATER DISTRICT AND TOWN OF TIVERTON, RHODE  
ISLAND  
SEWER CLEANING, CCTV SEWER AND  
MANHOLE INSPECTION SERVICES  
TECHNICAL SPECIFICATIONS**

**GENERAL APPROACH**

**DESCRIPTION:** The work will be completed on infrastructure separately owned by Tiverton Wastewater District and the town of Tiverton. The work to be completed on each section of sewer shall be performed under separate contract agreements overseen jointly by TWWD and TOT in phases as defined below:

1. Phase 1 Pre-cleaning Inspection. Pre-Cleaning Inspection shall be conducted by color CCTV conforming to NASSCO Pipeline Assessment Certification Program (PACP), and for the data to be exported electronically in a PACP certified format. Since this inspection is performed prior to cleaning, it is understood that the video may not provide an “unobstructed view of the entire pipe”. Results shall include the contractor’s recommendation whether Light Sewer Cleaning, Heavy Cleaning, or Root Cutting sewer cleaning is necessary (as defined in these specifications) to restore the sewer to a minimum of 95% of its original carrying capacity or to provide acceptable CCTV Video inspections that allow the identification of pipe defects, cracks, holes and location of service.

2. Phase 2 Sewer Determination Whether Pipe Cleaning Is Required. If the Contractor recommends light cleaning, the work shall proceed to Phase 3. If the Contractor determines that heavy cleaning or root cutting is required, the TWWD or Town will determine if additional work will be required. It is at the sole discretion of the TWWD or the Town to either declare the work on the particular sewer segment complete or notify the Contractor that additional Heavy Cleaning, or Root Cutting is required.

3. Phase 3 Additional Sewer Pipe Cleaning (Optional). The Contractor shall perform the light cleaning or the assigned additional work which may be any one of the following items as defined in these specifications: Heavy Cleaning, and Root Cut.

4. Phase 4 Post Cleaning Inspection. Final CCTV of the sewer segment to evaluate the condition of the sewer segment after all cleaning has been performed in Phase 3. Phase 4 will be required to be performed and will be reimbursed at the bid unit price.

**TIVERTON WASTEWATER DISTRICT AND TOWN OF TIVERTON RHODE  
ISLAND  
SEWER CLEANING, CCTV SEWER INSPECTION AND  
MANHOLE INSPECTION SERVICES  
TECHNICAL SPECIFICATIONS**

**SEWER CCTV INSPECTION**

**DESCRIPTION:** The work of this section includes closed-circuit television (CCTV) inspection of designated sewer mains and laterals to provide an accurate understanding of the existing pipe and its condition. Pipe sizes range from 4" to 24". A significant amount of the Town owned sewers run cross-country in areas with limited access. The Contractor is responsible for familiarizing themselves with the sewer system, including appropriate site visits prior to submittal of a bid. The work covered by this section consists of providing all traffic control, labor, equipment, insurance, accessories, tools, transportation, supplies, materials, data compilation and diagnosis, to perform all operations to conduct a CCTV inspection of designated sewer mains and laterals. The Contractor shall order police details, with the concurrence of the TWWD and/or the Town of Tiverton. Police details will be paid directly by the OWNER. Sub-contracting of CCTV inspection work is strictly prohibited without written consent by the TWWD. Contract footage is estimated to be approximately 15,200 linear feet of the Mt. Hope Interceptor owned by the Town of Tiverton and approximately 2,000 linear feet of gravity sewer owned by the TWWD.

At all times, the Contractor shall utilize Pipeline Assessment and Certification Program (PACP) certified inspectors for this contract. PACP coding methods shall be employed for all CCTV inspections conducted under this contract. Evidence of PACP certification of the Contractor's field technicians must be provided to the TWWD and the Town of Tiverton prior to commencement of any work. The Contractor's field technicians must maintain current certifications for Confined Space Entry as defined in OSHA regulations. The Contractor must have and utilize all necessary safety equipment to enter a "Permit Required Confined Space" and maintain it in good working order. The Contractor must produce OSHA 10-hour and or 30-hour cards before any work commences.

The Contractor shall be responsible for removing his equipment from the sewers and for all associated sewer and restoration repairs necessary as a result of his work. The contractor will be responsible for obtaining pertinent information to safely and effectively perform all work.

The Contractor shall use a self-contained CCTV system, complete with closed circuit television camera, monitor, and computer system with video capture card or specialized video recording equipment capable of pausing and resuming live recordings, capable of entering a manhole cover and sewer main with a minimum opening of 8 inch diameter clearance, and all necessary equipment for the successful completion of television inspection. The equipment shall be capable of performing inspections from sewer manholes in various field conditions. The Contractor shall have alternative capabilities to perform inspections as specified in areas where vehicle access to manholes is limited. The Contractor shall have equipment capable of viewing all pipeline connections to TWWD and TOT sewers.

**METHODS:** Prepare area of pipe inspection to provide safe conditions for vehicle and pedestrian traffic throughout the inspection procedure.

If, during the inspection operation, an inspection cannot be completed due to pipe blockages, obstructions, surcharging, the Contractor shall attempt to complete the inspection from the opposing manhole for the segment of sewer main. The Contractor shall provide lighting during the CCTV inspection that fully illuminates the entire pipe. The operator shall insure the camera and video display correctly reflect the true colors within the pipe and on the video display.

Submerged Inspections: The Contractor shall dewater the line using high-velocity jet cleaners (paid under Sewer Cleaning Item). This requirement may be waived by the TWWD if the water in which the camera lens is submerged, is clear enough to allow the identification of pipe defects, cracks, holes and location of service connections.

The Contractor shall locate pre-designated manholes with a utility locator comprised of a receiver and transmitter per contract specifications. The receiver must be capable of locating the transmitter in pipelines comprised of brick, clay, iron, and PVC and at depths up to 20 feet.

The Contractor shall produce a video using a pan-and-tilt, radial viewing pipe inspection camera that pans 275 degrees and rotates 360 degrees. The camera used for the inspection shall be specifically designed and constructed for such inspection. The camera must be solid-state color and have remote control of the 360-degree rotational lens. Cameras incorporating mirrors for viewing sides or cameras using exposed rotating heads are not acceptable. The camera shall be operative in 100% humidity conditions. Lighting for the camera shall be suitable to allow a clear picture of the entire periphery of the pipe. The video camera shall be capable of showing on the video the City name, Project or Street Name, Contractor name, date, pipe size and material. The

inspection shall show this information in the beginning of the inspection but not proceed with this information displayed on the screen throughout the inspection. Video recordings shall include an audio track recorded by the inspector during the actual inspection work describing the parameters of the line being inspected (i.e. Manhole ID to Manhole ID, date and time, location, depth, diameter, material), as well as describing connections (service, building, storm, etc.), defects and unusual conditions and other discernible features. Video recording playback shall be at the same speed that it was recorded. Slow motion or stop-motion playback features may be supplied at the option of the Contractor. The use of the zoom feature during recordings shall be utilized only, when necessary, to properly reflect the actual position of the camera during inspections. The camera, monitor and other components of the video system shall be capable of producing a minimum 460 line resolution video picture. Picture quality and definition shall be to the satisfaction of the TWWD and if unsatisfactory, equipment shall be removed and replaced with adequate equipment. No payment will be made for an unsatisfactory inspection. All CCTV inspections shall require a crawler transporter, floating for video inspections will NOT be allowed unless the pipe segment has been pre-approved by the TWWD and/or the Town of Tiverton.

The Contractor shall provide all inspection data and files on a portable USB flash drive and shall become the property of the TWWD once submitted. The Contractor shall record and report the information used for their recommendation for sewer cleaning. The flash drive shall contain all video files in standard .mpg 4 video file format, minimum picture size NTSC 352 x 240 @ 29.97 frames per second and a Data/Bit Rate of MPEG 4 @ 2.5 M-bits/sec. and PDF files of each inspection report. All defects and pipes that need cleaning shall be documented as digital picture files. The report file shall note all required header information and observations/defects per NASSCO's PACP guidelines.

No flow control devices will be permitted. Flow level up to 25% of the pipe may be allowed during inspections. If inspections cannot be completed with appropriate flow levels, the inspection may be abandoned, as indicated in NASSCO's PACP guidelines. In all cases of flow levels interrupting the camera view, inspections must be attempted from the upstream and downstream access points. The TWWD shall be provided with the video footage of the flow conditions during these inspection attempts. CCTV inspections shall be made during normal business hours. Exceptions may be granted to accommodate CCTV inspections with flow level disturbances. The Contractor may request to inspect pipe sections during the low flow period or during off-hours. Inspections that fall outside normal business hours must be submitted in writing to the TWWD and/or the Town of Tiverton at least three business days prior to the intended work.

The Contractor shall be responsible for coordinating any efforts with local authorities to occupy the Public Right of Way or implementing detours/street closures. The Contractor shall also be responsible for coordinating and obtaining the necessary permits with the Rhode Island Department of Transportation when performing work on State roads in Tiverton.

Where applicable, the Contractor shall also be responsible for coordinating access with private property owners to occupy Private Right of Way such as in Countryview Estates residential community, Villages on Mount Hope Bay residential community, Poplar Drive, or existing easement areas. The inventory of pipelines contained in Appendix B to these specifications identifies ownership information for those sewer mains within private property. The contractor is responsible for coordination, notification, scheduling and cancelling of any services required to complete the work. The Contractor shall reimburse the TWWD for any costs incurred due to failure to comply or sudden change of schedule. TWWD or the Town of Tiverton will notify property owners that the Contractor will be in contact regarding the schedule of work.

**MEASUREMENT AND PAYMENT:** Sewer CCTV Video Inspection will be measured and paid by the linear foot of sewer video inspected. There will be no differentiation on pipe size in matters of measurement and payment. The work covered by this section consists of providing all traffic control, obtaining permits, labor, equipment, insurance, accessories, tools, transportation, supplies, materials, data compilation and diagnosis, to perform all operations required to conduct a closed-circuit television inspection of designated sewer mains and laterals.

The Contractor shall order police details, only with the concurrence of the TWWD and/or the Town of Tiverton. Police details will be paid directly by the OWNER.

Sewer cleaning will be conducted when necessary to restore the sewer to a minimum of 95% of its original carrying capacity or to provide acceptable CCTV Video inspections that allow the identification of pipe defects, cracks, holes and location of service connections and will be paid under a separate item. If sewer cleaning is required a final CCTV Video and report will be conducted as noted above.

**TIVERTON WASTEWATER DISTRICT AND TOWN OF TIVERTON, RHODE  
ISLAND  
SEWER CLEANING, CCTV SEWER INSPECTION AND  
MANHOLE INSPECTION SERVICES  
TECHNICAL SPECIFICATIONS**

**SEWER CLEANING**

**DESCRIPTION:** The work of this section includes sewer cleaning to remove foreign materials from sewer pipes and manholes when necessary to restore the sewer to a minimum of 95% of its original carrying capacity and when necessary for adequate television inspection and/or repair operations. Pipe sizes range from 4" to 24". Light sewer cleaning shall be conducted when determined necessary by the Contractor based on CCTV inspection or other light, heavy and root cutting sewer cleaning as directed by the TWWD or Town. A significant amount of the Town owned sewers run cross-country in areas with limited access. The Contractor is responsible for familiarizing themselves with the sewer system including appropriate site visits prior to submittal of a bid. The work includes, but is not limited to, providing all traffic control, labor, equipment, tools, materials, supplies, insurance, transportation, water, waste disposal, supervision, and technical competence to perform all operations required to clean sewers and manholes for general cleaning, prior to CCTV video inspection and repair operations, or as directed by TWWD. Contract footage is estimated to be 15,200 linear feet of the gravity portion of the Mt. Hope Interceptor owned by the Town and approximately 2,000 linear feet of select sections of gravity sewer owned by TWWD.

Separate contracts will be entered for Town owned and TWWD owned sewers and manholes.

Contractor will order police details only with the concurrence of the TWWD and/or the Town of Tiverton. Police details will be paid directly by the OWNER.

Sub-contracting the work of this contract is strictly prohibited without expressed written consent of the TWWD and/or the Town.

The Contractor shall commence work under this Contract on or before a date to be specified in written Notice to Proceed by TWWD and the Town. Failure by the Contractor to commence the work within fourteen (14) days of date specified will cause termination of the Contractor.

The Contractor is solely responsible for creating a safe environment for all personal at the worksite, including but not limited to personnel protection equipment and adequate traffic control. The Contractor's field technicians must possess current certifications for Confined Space Entry as defined in OSHA regulations. The Contractor must have and utilize all necessary safety equipment to enter a Permit-Required Confined Space as defined by OSHA and maintain such safety equipment in good working order. The Contractor must produce OSHA 10-hour and 30-hour cards before any work commences. The Contractor will be responsible for obtaining pertinent information to safely and effectively perform the sewer cleaning services.

The Contractor shall be responsible for coordinating any efforts with local authorities to occupy the Public Right of Way or implementing detours/street closures. The Contractor shall also be responsible for coordinating and obtaining the necessary permits with the Rhode Island Department of Transportation when performing work on State maintained roads including Main Road, Souza Road, Fish Road, and Bay Street in Tiverton.

Where applicable, the Contractor shall also be responsible for coordinating access with private property owners to occupy Private Right of Way such as in Countryview Estates residential community, Villages on Mount Hope Bay residential community, Poplar Drive, or existing easement areas. The inventory of pipelines contained in Appendix B to these specifications identifies ownership information for those sewer mains within private property. The contractor is responsible for coordination, notification, scheduling and cancelling of any services required to complete the work. The Contractor shall reimburse the TWWD or the Town for any costs incurred due to failure to comply or sudden change of schedule.

The Contractor shall adhere to all federal, state, and local laws, ordinances, policies, practices and regulations. The Contractor will be required to cooperate and arrange the sequence of work in conjunction with utility and affected abutters.

The Contractor will be responsible for obtaining pertinent information to perform the sewer cleaning services safely and effectively. TWWD shall provide to the Contractor any available record plans of the sewers to be cleaned. The Contractor shall be responsible for removing his equipment from the sewers and for all associated sewer and restoration repairs necessary as a result of his work.

**CONSTRUCTION METHODS:** Prepare area of cleaning access to provide safe conditions for vehicle and pedestrian traffic in accordance with the Manual for Uniform Traffic Control Devices (MUTCD), Latest Edition. The Contractor shall coordinate all

traffic control for his/her operations within a public right of way with Tiverton Police Department and Tiverton Department of Public Works.

#### Light Sewer Cleaning (Each Segment)

##### 1. Removal of Deposits Settled (DS):

Pipe Diameter	Maximum Percent of Pipe Diameter with DS
Up to 12-inches	25%
13- to 24-inches	15%
25- to 30-inches	10%

2. The Contractor shall clean the sewer and associated manholes, including drop connections and benches, to remove all Deposits Settled (DS), so that the sewer is ready for televising. This will require an unlimited amount of passes of a hydraulic jetter to remove all loose debris and collect it for removal in the downstream manhole. All debris must be removed from the sewer, including any debris that may have been washed up into any service connections (does not include known pre-existing conditions in service connections), drop connections or the bench wall of the manholes. This item does not include any root cutting, deposit removal, or grinding of protruding service connections.

#### D. Heavy Sewer Cleaning (Each Segment)

1. Removal of Obstructions (OB) and Deposits Settled (DS) that exceed percentage established for light cleaning. This also includes Deposits Attached Grease (DAGS) if able to remove with rotating nozzle or other mechanical means; not to include saws or cutters. Compliance with this section requires substantial effort towards cleaning

2. Under this bid item, the Contractor shall remove all obstructions in the sewer. All debris must be removed from the sewer, including any debris that may have been washed up into any service connections (does not include known pre-existing conditions in service connections), drop connections or the bench wall of the manholes. This includes all grease, rocks, debris, sticks, etc. that will reduce the hydraulic capacity of the sewer and limit future maintenance access of remote equipment. This work will include an unlimited number of passes by high velocity hydro-cleaning equipment. A mechanical/hydraulic Spinner Nozzle may be used where necessary at no additional cost to the OWNER; however, the Contractor shall be responsible for any damage to the sewer or any service connections. This item does not include cutting/grinding protruding break-in connections, as that work will be paid under a separate bid item.

3. The Contractor shall maintain detailed documentation of cleaning efforts made to remove these items. Such documentation shall be made available to the OWNER at any time.

4. The Contractor shall immediately notify the OWNER if he believes that this level of cleaning will cause a sewer collapse due to the existing deterioration of the host pipe. The Owner's determination whether to continue or stop work is final.

#### E. Root Cut (Each segment)

1. Root Cut - Removal of Roots Medium (RM), and Root Balls (RB).

2. The Owner shall determine if the sewer segment requires root cut cleaning. All roots must be screened, collected, and removed from the sewer for proper disposal.

3. The Contractor shall immediately notify the OWNER if he believes that these activities performed under this paragraph will cause a sewer collapse due to the existing deterioration of the host pipe. OWNER'S determination whether to continue or stop work is final.

The Contractor shall provide all equipment necessary for rodding, bucketing, brushing, root cutting and flushing of the sewers ranging from 4" to 24" diameter. Hydraulic high pressure sewer cleaners used for sewer cleaning shall be specifically designed and constructed for such cleaning consisting of high velocity type or hydraulically propelled equipment. Appropriate equipment, pressures, and flows will be maintained in order to safely and effectively clean the sewer without disruption of service, backups to private facilities, or damage to public or private property. Any loss incurred directly resulting from the sewer cleaning/inspection process shall be the sole responsibility of the Contractor. Guidelines set forth in NASSCO's "Jetter Code of Practice" will be adhered to.

High velocity jet and vacuum hydro cleaning equipment: All high-velocity jet and vacuum sewer cleaning equipment shall be constructed for ease and safety of operation. All controls shall be located so that the equipment can be operated above ground. The equipment shall have a selection of two or more high-velocity nozzles, which shall be capable of producing a scouring action from 15 to 45 degrees in all size lines to be cleaned. Equipment shall also include a high-velocity gun for washing and scouring manhole walls and floor. The gun shall be capable of producing flows from a fine spray to a solid stream. The equipment shall carry its own water tank, auxiliary engines, pumps, and hydraulically driven hose reel. The sewer cleaning shall have a minimum usable water capacity of 600 gallons and a pump capable of delivering at least 80mgallons per minute (gpm) at 1100 psi. Pressure to the nozzle shall be regulated by a relief valve adjustable from 1 to 2,000 psi minimum. The equipment shall have a

positive displacement, rotary lobe vacuum system with available capacity for removing debris from the sewer.

All equipment will be subject to approval by the TWWD in coordination with the Town of Tiverton.

The Contractor shall clean the designated sewers and manholes using high velocity jet/vacuum trucks. The equipment shall be capable of removing dirt, grit, sand, and other solid and semi-solid materials from the sewers and manholes. Precautions shall be taken to prevent flooding of the sewers and public or private property.

Blockages: The Contractor shall attempt to remove a specific blockage in the sewer for at least one (1) hour before advising the TWWD that the blockage cannot be removed. If a particular blockage results in a critical situation such as surcharging out of a manhole structure or overflow to an outfall, the Contractor shall immediately notify the TWWD. During a non-critical situation, the Contractor shall provide the TWWD with the following information within two (2) hours of encountering a blockage that cannot be removed:

- Location of the blockage indicated by a paint mark on the ground surface above the sewer and the distance from the nearest manhole.
- A digital inspection photograph, video recording or digital file containing a visual of the blockage.
- The effect the blockage has on completion of the sewer cleaning work and required action to deal with the blockage such as an emergency sewer repair or scheduled maintenance.

The Contractor shall perform a reverse set-up cleaning when a blockage in the sewer prevents completion of a cleaning from the downstream manhole by moving equipment to the upstream manhole and attempting to complete the cleaning of the entire sewer.

Existing flows shall not be interrupted without prior written authorization from the TWWD. The Contractor shall take necessary precautions to prevent sewage backup and shall be responsible if damage results from negligence or work performed by the Contractor. Sewage diverted during cleaning operations shall be returned to the sewer system from which it was taken and not discharged into any streams or waterbodies.

Water Supply: It is the Contractor's responsibility and expense to supply the water necessary to perform the work from a source approved by the TWWD. **Under no circumstances will the Contractor be allowed to obtain water from water bodies,**

**unless they receive advance written permission from RIDEM and notify the TWWD in writing prior to work.** Water may be available for purchase by the Contractor from the North Tiverton Fire District at their designated hydrant location on Industrial Way in Tiverton. The Contractor shall obtain formal authorization from the North Tiverton Fire District for access to the water supply hydrant. The Contractor is responsible for any damages resulting from the improper use of the water supply system.

Cleaning Precautions: Satisfactory precautions shall be taken to protect the sewer system from damage that might be inflicted by the improper use of cleaning or inspection equipment. If a particular sewer line or manhole is known to be compromised or structurally deficient in any way, special precautions should be taken in regard to cleaning equipment, methods, and hydraulic pressures used during the cleaning process. Sewers damaged as a result of the Contractor's improper operations shall be promptly repaired by the Contractor at no cost to the TWWD. The Contractor shall immediately notify the TWWD of any damages to the sewer system regardless of fault.

During all cleaning and preparation operations, precautions shall be also taken to ensure that no damage is caused to public or private adjacent to or served by the sewer or its branches. Any damage caused to public or private property as a result of such cleaning and preparation operations shall be restored to pre-existing conditions by the Contractor in a timely manner and no additional cost to the OWNER.

Damaged Sewers: Conditions may exist such as broken pipes and major blockages that prevent cleaning from being accomplished or where additional damage would result if cleaning were attempted or continued. Should such conditions be encountered, the Contractor shall immediately notify the TWWD of those specific sections before proceeding. If during the course of the normal cleaning operations, damage does result from known pre-existing conditions such as a broken pipe, the Contractor will not be held responsible providing that the TWWD has been notified of the conditions and the Contractor has been authorized by the TWWD in coordination with the Town of Tiverton to proceed with the work.

Root Removal: Roots shall be removed in the sewer sections and manholes where root intrusion is a problem. Special attention should be used during the cleaning operation to ensure removal of roots from the pipe joints. Procedures may include the use of equipment such as high velocity jet cleaners with specialty nozzles.

Waste Material Removal and Disposal: All sludge, dirt, sand, grit, rocks, grease, roots, and other solid or semi-solid waste material resulting from the cleaning operation shall

be removed at the downstream manhole of the section being cleaned. When hydraulic cleaning equipment is used, a suitable procedure shall be performed to minimize the passing of materials to the downstream sewer sections. Passing material from manhole section to manhole section, which could cause line stoppages, accumulations of debris in wet wells, or damage to pumping equipment, shall not be permitted. Under no circumstances shall sludge or other debris removed during these operations be dumped or spilled onto streets, ditches, water bodies, storm drains or other sanitary sewers. All solids or semisolids resulting from the cleaning operations shall be removed from the work area and disposed of by the Contractor at the Contractor's expense, in accordance with applicable laws and regulations.

The Contractor shall keep his haul route and work areas neat and clean and reasonably free of odor. The Contractor shall bear all responsibility for the immediate cleanup of any spill or waste material release which occurs as a result of their operations.

Acceptance of Cleaning Operation: Acceptance of sewer cleaning shall be made upon the successful completion of the Phase 4 Post Cleaning Television Inspection and shall be to the satisfaction of the TWWD in coordination with the Town of Tiverton. If the cleaning is deemed by the TWWD or the Town of Tiverton as unsatisfactory, the Contractor shall be required to re-clean and/or re-inspect the sewer line at the contractors' expense until the work is shown to be satisfactory to the OWNER.

The Contractor shall be responsible for coordinating any efforts with the local authorities, as necessary including Tiverton Department of Public Works and Tiverton Police Department to occupy the Public Right of Way, posting of signs for temporary No Parking conditions, or implementing detours or street closures.

Where applicable, the Contractor shall be responsible for coordinating work located within any private, local, or state property regarding access and/or right of ways necessary to complete the work. The Contractor is responsible for the coordination, notification, scheduling and cancelling of any services required to complete the work. TWWD or the Town of Tiverton will provide the Contractor easement locations, property owners' contact information and will send an initial notification of the project to the property owners. The Contractor shall reimburse the TWWD for any costs incurred due to failure to comply or sudden change of schedule.

**MEASUREMENT AND PAYMENT:** Sewer cleaning shall be measured and paid by linear foot of sewer cleaned using light, heavy methods or root cutting. Residuals generated from the sewer and manhole cleaning process shall be paid per ton of materials generated and properly disposed. The conversion for liquid waste will be 10

lbs/gallon. Measurement shall be materials generated in the cleaning process as measured in the field and transported off-site disposal. The Contractor shall be responsible for all disposal documentation which will be required for payment. The work covered by this section consists of providing all traffic control, obtaining permits, labor, equipment, material and supplies, insurance, accessories, tools, transportation, materials, water, waste disposal, inspection work, application of root control herbicide, supervision, and technical competence to perform all operations required to clean sewers and manholes.

The Contractor is responsible for the coordination, notification, scheduling and cancelling of any services required to complete the sewer cleaning work. The Contractor shall reimburse the OWNER for any costs incurred due to failure to comply with the authorities' requirements.

The Contractor will be responsible to order police details with the concurrence of the TWWD and/or the Town of Tiverton. Costs for police details will be paid directly by the OWNER.

Sewer CCTV inspection will be paid for under a separate item.

**TIVERTON WASTEWATER DISTRICT AND TOWN OF TIVERTON, RHODE  
ISLAND  
SEWER CLEANING, CCTV SEWER INSPECTION AND  
MANHOLE INSPECTION SERVICES  
TECHNICAL SPECIFICATIONS**

**MANHOLE INSPECTION SERVICES**

**DESCRIPTION:** The work of this section includes visual inspection of all manholes opened as part of the sewer cleaning and video inspection designated sewer mains and other manholes as directed by the District. Manhole inspections shall be conducted in accordance with NASSCO Manhole Assessment Certification Program (MACP) standards. Sub-contracting of CCTV inspection work is strictly prohibited without written consent by the TWWD and/or the Town of Tiverton.

**METHODS:** Prepare area of Manhole inspection to provide safe conditions for vehicle and pedestrian traffic throughout the inspection procedure. This shall include thoroughly cleaning the interior of the manholes so to allow inspection on all internal components. Conditions to be observed in the manhole inspection shall include the following:

- Condition of frame and cover
- Condition of manhole masonry
- Condition of manhole barrel section
- Abnormal solids accumulation
- Indications of abnormal water levels in manholes
- Condition of table and invert
- Indications on infiltration/inflow

Upon inspection of each manhole in the project the contractor shall prepare a Manhole Inspection Report which will include the following:

- Identification of Manhole including size, location
- Initial observations of opening structure
- Sketch of piping configuration including pipe sizes and depth from top of cover
- Summary of all conditions encountered and deficiencies identified.

It is estimated that approximately 250 manholes will be included in this project (150 owned by the Town of Tiverton and 100 owned by TWWD).

**MEASUREMENT AND PAYMENT:** Sewer Manhole Inspection will be measured and paid by each manhole inspected by the OWNER. There will be no differentiation on manhole size or depth in matters of measurement and payment. The work covered by this section consists of providing all traffic control, obtaining permits, labor, equipment, insurance, accessories, tools, transportation, supplies, materials, data compilation and diagnosis, to perform all operations required to conduct a manual inspection of designated sewer manholes.

The Contractor shall order police details, only with the concurrence of the TWWD and/or the Town of Tiverton. Police details will be paid directly by the OWNER.

Sewer cleaning will be paid under a separate item.

**TOWN OF TIVERTON, RHODE ISLAND**  
**Mt. HOPE INTERCEPTOR EROSION INSPECTION SERVICES**  
**TECHNICAL SPECIFICATIONS**

**DESCRIPTION:** The work of this section includes a one visual inspection of the Mt. Hope Interceptor sewer line route from station 100+98 (SMH-52) through 20+39\_ (SMH10) as designated on the as-built plans (Appendix B). Inspections shall include photo documentation of any soil erosion issues encountered, shall meet the requirements of the Erosion Control Maintenance Plan, Mount Hope Bay Interceptor (Appendix A) and shall be completed by a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Stormwater Quality (CPSWQ), or a Rhode Island Registered Professional Engineer. Sub-contracting of inspection work is strictly prohibited without written consent by the TWWD and/or the Town of Tiverton.

**METHODS:** Conditions to be observed in the manhole inspection shall include those listed Erosion Control Maintenance Plan, Mount Hope Bay Interceptor.

The contractor shall prepare a Erosion Control Inspection Report which will include a summary of all conditions encountered and deficiencies identified.

The Mt. Hope Interceptor is owned by the Town of Tiverton.

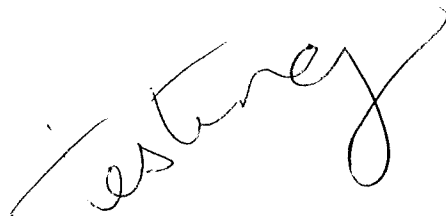
**MEASUREMENT AND PAYMENT:** The EROSION INSPECTION SERVICES will be paid on a lump sum basis by the OWNER (Town of Tiverton). The work covered by this section consists of providing all traffic control, obtaining permits, labor, equipment, insurance, accessories, tools, transportation, supplies, materials, data compilation and diagnosis, to perform all operations required to conduct the required inspections.

The Contractor shall order police details, only with the concurrence of the TWWD and/or the Town of Tiverton. Police details will be paid directly by the OWNER.

APPENDIX A  
Erosion Control Maintenance Plan  
Mount Hope Bay Interceptor Sewer

**Erosion Control Maintenance Plan  
Mount Hope Bay Interceptor Sewer**

**Tiverton Wastewater Management Commission  
Tiverton, Rhode Island**



**Purpose**

The purpose of this plan is to provide a comprehensive program to identify and mitigate erosion along the proposed sewer line before conditions advance to a point where the integrity of the sewer pipeline would be compromised. The plan outlines the inspectional requirements of several elements incorporated into the design of the pipeline to ensure that the erosion control methods function as intended as well as to establish a means of evaluating the naturally occurring rate of retreat of the coastal bluff. Maintenance requirements are identified to minimize the potential for an erosive condition to develop that could affect the integrity of the existing sewer line and result in environmental impact.

The inspection and maintenance activities outlined herein are in addition to the sanitary sewer system inspection and maintenance requirements outlined in the Operations and Maintenance Manual approved by the Rhode Island Department of Environmental Management (RIDEM) for the Mount Hope Bay Interceptor Sewer. All repair to the sanitary sewer and associated structures shall be in conformity with said Manual.

**Responsible Party**

The Town of Tiverton Wastewater Management Commission is responsible for conducting all inspections and maintenance outlined in this plan.

**Regulating Authorities**

Maintenance activities outlined herein may be subject to one or several local, state and federal regulatory permits prior to undertaking such activities. The Town of Tiverton Wastewater Management Commission is responsible for identifying and obtaining all applicable regulatory permits prior to commencing maintenance or repairs. Work may be subject to regulation under the following programs, agencies and guidelines:

- Rhode Island Coastal Resource Management Program;
- Rhode Island Soil Erosion and Sediment Control Handbook;
- U.S. Army Corps of Engineers rules and regulations;
- Rhode Island Department of Environmental Management rules and regulations.

## Inspections

### **Time of Inspections:**

Visual inspections of the full length of the sewer line shall be performed at the following times:

- Twice annually, once in April and once in October;
- Following storm events resulting 2 inches or greater rainfall in a 24-hour period as measured by the National Weather Service in Taunton, Massachusetts;
- Following storm events resulting in tidal surge equal to or exceeding 3.0 feet at the tidal gauging station located in Fall River, Massachusetts as monitored by the U.S. Coast Guard ([www.co-ops.nos.noaa.gov/nbports/Composite\\_fr.html](http://www.co-ops.nos.noaa.gov/nbports/Composite_fr.html)).

Additional inspections shall be performed as deemed necessary by the Town of Tiverton Wastewater Management Commission or following an incident report as defined herein.

### **Items for Inspection:**

Culverts and Drainage Swales: Eleven culverts convey stormwater from the landward side of the existing railroad bed to the bay. The location of these culverts and corresponding size and material are noted in Table 1 below.

**Table 1  
Existing Culvert Locations**

Pipeline Station	Culvert Description
22+55	4' x 4' Stone Box
30+33	2' x 2' Box
35+81	15" RCP
36+23	12" RCP
37+70	24" RCP
47+29	2.5' x 3' Stone Box
55+65	3' x 6' Stone Box
62+63	24" Metal Pipe
67+44	24" CI Pipe
76+13	24" CI Pipe
84+46	3' x 3' Stone Box

All culverts shall be inspected for signs of damage or obstruction. The inspection report shall note the condition of the following items for each culvert:

- Structural condition of the culvert and upstream and downstream headwalls;
- Presence of debris in the culvert and immediately upstream or downstream of the culvert;
- Erosion upstream and downstream of the culvert;
- The condition, including the presence of debris, in the channels conveying stormwater to the culverts under the railroad bed and to the beach area;
- Severity and location of erosion, if present;
- Condition of stone riprap erosion protection, where present;
- Evidence of overtopping (wash over) or bypass of the railroad bed or culvert. (Siltation deposits within the railroad bed, matted vegetated matter, or undermining of the railroad ballast may be a sign of this condition);
- Photographic documentation of the upstream and downstream culvert headwall areas as well as the approaching and departing stream channels shall be provided for comparison with previous inspections;
- Measurement of sediment build-up depths within the culverts (depth of sediment from the inside bottom of pipe to mudline).

Coastal Bluff: The bluff along the entire length of the proposed sewer alignment shall be inspected for signs of surface water erosion and slope instability. The bluff shall be physically inspected from both the top of bluff along the existing railroad bed and along the base of the bluff (from the beach). The inspection shall identify indices of potential bluff failure such that measures can be taken before the failure occurs. Inspection of the bluff shall include:

- Inspect bluff along the entire length of sewer line from both the top of bluff and beachfront;
- Record all observed instances of erosion, indicated by areas devoid of vegetation, gully formation, undercutting of existing vegetation, leaning of trees or stands of trees, undercutting of the toe of the bluff;
- Record the location of all observed seepage from the bluff face;
- Photo-document areas of erosion;
- Measure and record the distance from the center of the manhole covers to the top of bluff.

Bluff Restoration Areas: Two locations along the proposed sewer alignment, (Stations 68+25 and 74+20) have been restored and require specific inspection procedures in

addition to those noted above. The restoration work consisted of placing granular fill on the bluff to restore the original grade and placing topsoil on the restored bank. Erosion control matting and vegetative plantings consisting of bushes and grass seed mixtures were used to stabilize the slopes. Inspection of these areas shall consist of the following observations, measurements and documentation:

- Inspect both the top and bottom of the bluff area for signs of slope instability, such as sliding or sloughing;
- Inspect the slope face for signs of erosion or gully formation;
- Inspect the vigor of the shrubs and coverage of the grass seed mixture;
- Inspect the condition of erosion control matting (particularly during first two growing seasons);
- Inspect for evidence of surface water from above the bluff entering the bluff restoration area(s);
- Inspect the toe of the bluff restoration areas for undermining of the slope from wave action;
- Provide photographic documentation of the top of the bluff and beach areas at each bluff restoration area for comparison with previous inspections.

Underdrain Systems: An underdrain system has been installed under the existing railroad bed along a portion of the proposed sewer alignment. The purpose of the underdrain system is to alleviate saturated soils conditions along the bluff resulting from standing water within the railroad bed. The underdrain system consists of a 6-inch diameter perforated pipe in a trench adjacent and parallel to the sewer pipeline. The trench has been filled with crushed stone or other suitable granular material. The underdrain is buried to depths ranging from one to three feet from the existing railroad bed elevation. The underdrains outlet into existing swales and ditches located along the landward side of the existing railroad bed. The location of the underdrain systems and outlet of the systems are noted as follows:

- Station 59+93 to Station 62+52. Outlet at Station 62+52;
- Station 62+68 to Station 64+03. Outlet at Station 62+68;
- Station 64+23 to Station 67+39. Outlet at Station 67+39;
- Station 67+67 to Station 71+93. Outlet at Station 67+67.

Underdrains shall be inspected as follows:

- Inspect the railroad bed and adjacent areas for areas of standing water that may be a sign of an improperly functioning underdrain system;
- Inspect outlets of underdrains for signs of debris or blockage.

## **Reporting**

Inspection reports shall be kept on file at the Town of Tiverton Wastewater Management Commission offices and be made available to the Coastal Resource Management Council (CRMC) upon request. The Town of Tiverton shall notify the CRMC in writing of any deficiencies and schedule for correction.

Maintenance reports shall be reviewed by an appropriately qualified person identified by the Wastewater Management Commission. This individual will be responsible for reviewing the reports and identifying the necessary maintenance actions required to correct deficiencies noted in the report. The Maintenance Section below outlines the general periodic maintenance activities anticipated to be necessary to ensure the storm drainage systems and underdrain systems continue to function appropriately and the bluff restoration areas remain stable.

In addition to the periodic maintenance activities identified below, long-term erosion and erosion resulting from episodic events may jeopardize the stability of an area of the coastal bluff. Erosion, sliding or sloughing of the coastal bluff observed or measured during the inspections may indicate that specific engineering and restoration activities need to be performed to minimize potential damage to the sewer infrastructure. Measurable changes of the distance from the top of the bluff to the center of the manhole covers, increased height or extents of undercutting observed at the toe of slope, or areas of erosion, and/or areas devoid of vegetation may be an indication of instability of the coastal bluff. Additional work beyond the general maintenance items described below will likely be required to prevent additional erosion or restore the bluff. Therefore, should these conditions be observed, a detailed inspection of the effected area should be conducted by the Town's Consulting Engineer to assess the scope and magnitude of the problem and determine the appropriate course of action. Prior to any action requiring long-term restoration or protective measures, the Town of Tiverton Wastewater Management Commission shall consult with CRMC about the proposed solution and obtain the necessary permits.

## **Maintenance**

**Culverts and Drainage Swales:** The following maintenance shall be performed on the culverts and the channels upstream and downstream of the culvert:

Sediment and Debris:

Clean the pipe and/or channel when sediment depths exceed 2 inches above the invert of the culvert. Remove all debris with the potential for clogging the culverts or obstructing the flow of water in the drainage swales.

Vegetation:

Remove all woody vegetation that reduces the free movement of water through the culvert or drainage swales.

Erosion Damage to Slopes:

Stabilize slopes using appropriate erosion control measure(s) such as rock reinforcement, planting of vegetation, installation of geotextile fabric, etc. when eroded damage is over 2 inches deep or where the cause of damage is still present or there is potential for continued erosion.

Damaged Culvert or Headwall:

Repair or replace the culvert when there is potential either for failure of the culvert or if further damage would obstruct the free movement of water through the culvert.

Rip Rap or Rock Lining:

Replace, per the design standards, displaced or missing rock(s) from rip rap outlet protection or rock-lined channels.

Note: Areas requiring repeated restoration for erosion control purposes or areas requiring repeated sediment removal indicate that additional engineered solutions may be required to correct the condition. Areas requiring similar maintenance activities following two successive inspections should be flagged for more detailed inspection by appropriately qualified staff. The detailed inspection shall focus on determining the cause(s) of the problem and developing a long-term solution. Solutions may include, but are not necessarily limited to:

- Removing and/or replacing the existing slope/outlet protection with appropriately sized/designed energy dissipation devices;
- Redirecting/regrading drainage swale flow paths or direction of flow;
- Changing road sanding/salting operations upstream of the area experiencing excessive sediment buildup;
- Installation of sediment traps upgradient of the culvert.

**Bluff Restoration Areas:** The following maintenance shall be performed in the areas where the bluff has been restored. Note: Inspection frequency of these areas should be increased until erosion control measures have stabilized the bluff.

Erosion Damage to Slopes:

Stabilize slopes using appropriate erosion control measure(s) such as, filling and compacting, planting of vegetation, installation of geotextile fabric, etc. when eroded damage is over 2-inches deep or where the cause of damage is still present or there is potential for continued erosion. Redirect surface runoff from above if found to be the cause of erosion, gully formation, or wash over onto the slope face.

Vegetation:

Remove and replace dead bushes and saplings with species originally specified. Reseed all slopes devoid of vegetation with originally specified seed mixture.

Erosion Control Matting:

Repair damaged erosion control matting in accordance with manufacturer's recommendations.

**Underdrain Systems:** All underdrain outlets shall be kept free and clear of debris. Remove sediment and vegetation within the channel at the underdrain outlet. Underdrains that are not functioning properly, as indicated by standing water within the railroad right-of-way, shall be removed and replaced as appropriate.

**Funding for Erosion Control Measures**

The Town of Tiverton has established a fund in the amount of \$400,000 for the sole purpose of financing the implementation of erosion control measures along the coastal bluff to minimize the potential for damage to the Mount Hope Bay Interceptor Sewer by erosion. The Tiverton Wastewater Management Commission has the sole authority to release funds from this account as necessary for use in performing erosion and related preventative maintenance and/or repair to the coastal bluff.

# Tiverton Wastewater Management Commission

## Erosion Control Inspection Report

Date: Inspector: Weather:	Type of Inspection:    Routine: <input type="checkbox"/> Storm Event: <input type="checkbox"/> Tidal <input type="checkbox"/> Rainfall
---------------------------------	---

### Culverts and Drainage Swales

Culvert Station 22+25	Comments
Debris in Culvert or Swales <input type="checkbox"/> Yes <input type="checkbox"/> No	
Erosion at Culvert <input type="checkbox"/> Yes <input type="checkbox"/> No	
Erosion in U/S or D/S Swale <input type="checkbox"/> Yes <input type="checkbox"/> No	
Culvert Condition <input type="checkbox"/> Good <input type="checkbox"/> Poor	
Condition of Riprap Protection <input type="checkbox"/> Good <input type="checkbox"/> Poor	
Sediment Buildup <input type="checkbox"/> Observed <input type="checkbox"/> None	
Railbed Overtopping <input type="checkbox"/> Yes <input type="checkbox"/> No	

Culvert Station 30+33	Comments
Debris in Culvert or Swales <input type="checkbox"/> Yes <input type="checkbox"/> No	
Erosion at Culvert <input type="checkbox"/> Yes <input type="checkbox"/> No	
Erosion in U/S or D/S Swale <input type="checkbox"/> Yes <input type="checkbox"/> No	
Culvert Condition <input type="checkbox"/> Good <input type="checkbox"/> Poor	
Condition of Riprap Protection <input type="checkbox"/> Good <input type="checkbox"/> Poor	
Sediment Buildup <input type="checkbox"/> Observed <input type="checkbox"/> None	
Railbed Overtopping <input type="checkbox"/> Yes <input type="checkbox"/> No	

Culvert Station 35+81	Comments
Debris in Culvert or Swales <input type="checkbox"/> Yes <input type="checkbox"/> No	
Erosion at Culvert <input type="checkbox"/> Yes <input type="checkbox"/> No	
Erosion in U/S or D/S Swale <input type="checkbox"/> Yes <input type="checkbox"/> No	
Culvert Condition <input type="checkbox"/> Good <input type="checkbox"/> Poor	
Condition of Riprap Protection <input type="checkbox"/> Good <input type="checkbox"/> Poor	
Sediment Buildup <input type="checkbox"/> Observed <input type="checkbox"/> None	
Railbed Overtopping <input type="checkbox"/> Yes <input type="checkbox"/> No	

Culvert Station 36+23	Comments
Debris in Culvert or Swales <input type="checkbox"/> Yes <input type="checkbox"/> No	
Erosion at Culvert <input type="checkbox"/> Yes <input type="checkbox"/> No	
Erosion in U/S or D/S Swale <input type="checkbox"/> Yes <input type="checkbox"/> No	
Culvert Condition <input type="checkbox"/> Good <input type="checkbox"/> Poor	
Condition of Riprap Protection <input type="checkbox"/> Good <input type="checkbox"/> Poor	
Sediment Buildup <input type="checkbox"/> Observed <input type="checkbox"/> None	
Railbed Overtopping <input type="checkbox"/> Yes <input type="checkbox"/> No	

Culvert Station 37+70			Comments
Debris in Culvert or Swales	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion at Culvert	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion in U/S or D/S Swale	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Culvert Condition	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Condition of Riprap Protection	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Sediment Buildup	<input type="checkbox"/> Observed	<input type="checkbox"/> None	
Railbed Overtopping	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Culvert Station 47+29			Comments
Debris in Culvert or Swales	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion at Culvert	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion in U/S or D/S Swale	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Culvert Condition	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Condition of Riprap Protection	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Sediment Buildup	<input type="checkbox"/> Observed	<input type="checkbox"/> None	
Railbed Overtopping	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Culvert Station 55+65			Comments
Debris in Culvert or Swales	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion at Culvert	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion in U/S or D/S Swale	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Culvert Condition	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Condition of Riprap Protection	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Sediment Buildup	<input type="checkbox"/> Observed	<input type="checkbox"/> None	
Railbed Overtopping	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Culvert Station 62+63			Comments
Debris in Culvert or Swales	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion at Culvert	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion in U/S or D/S Swale	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Culvert Condition	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Condition of Riprap Protection	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Sediment Buildup	<input type="checkbox"/> Observed	<input type="checkbox"/> None	
Railbed Overtopping	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Culvert Station 67+44			Comments
Debris in Culvert or Swales	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion at Culvert	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion in U/S or D/S Swale	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Culvert Condition	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Condition of Riprap Protection	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Sediment Buildup	<input type="checkbox"/> Observed	<input type="checkbox"/> None	
Railbed Overtopping	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Culvert Station 67+44			Comments
Debris in Culvert or Swales	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion at Culvert	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion in U/S or D/S Swale	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Culvert Condition	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Condition of Riprap Protection	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Sediment Buildup	<input type="checkbox"/> Observed	<input type="checkbox"/> None	
Railbed Overtopping	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Culvert Station 76+14			Comments
Debris in Culvert or Swales	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion at Culvert	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion in U/S or D/S Swale	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Culvert Condition	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Condition of Riprap Protection	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Sediment Buildup	<input type="checkbox"/> Observed	<input type="checkbox"/> None	
Railbed Overtopping	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Culvert Station 84+46			Comments
Debris in Culvert or Swales	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion at Culvert	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Erosion in U/S or D/S Swale	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Culvert Condition	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Condition of Riprap Protection	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Sediment Buildup	<input type="checkbox"/> Observed	<input type="checkbox"/> None	
Railbed Overtopping	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

### Underdrain Systems

Underdrain Location	Debris/Outlet Blockage		Standing Water in Railroad Bed	
	Yes	No	Yes	No
Sta. 59+93 to 62+52	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sta. 62+68 to 64+03	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sta. 64+23 to 67+39	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sta. 67+67 to 71+93	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Coastal Bluff

Item	Comments (Location, Size, Description, etc.)	
Areas of Erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Areas Devoid of Vegetation	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Undercutting of Vegetation	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Undercutting of Toe	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage Observed from Bluff	<input type="checkbox"/> Yes	<input type="checkbox"/> No

### Distance from Sewer Manhole to Top of Coastal Bluff

Manhole No.	Distance	Manhole No.	Distance
27		36	
28		37	
29		38	
30		39	
31		40	
32		41	
32A		42	
33		43	
34		44	
35			

### Bluff Restoration Areas

<b>Restoration Area A Station 68+25</b>			Comments (Location, Size, Description, etc.)
Areas of Erosion/ Gully Formation	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Slipping/Sliding/ Sloughing of Bluff	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Vegetative Vigor/Coverage	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Undercutting of Toe	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Seepage Observed from Bluff	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Condition of Erosion Control Matting	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Runoff Entering Area	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

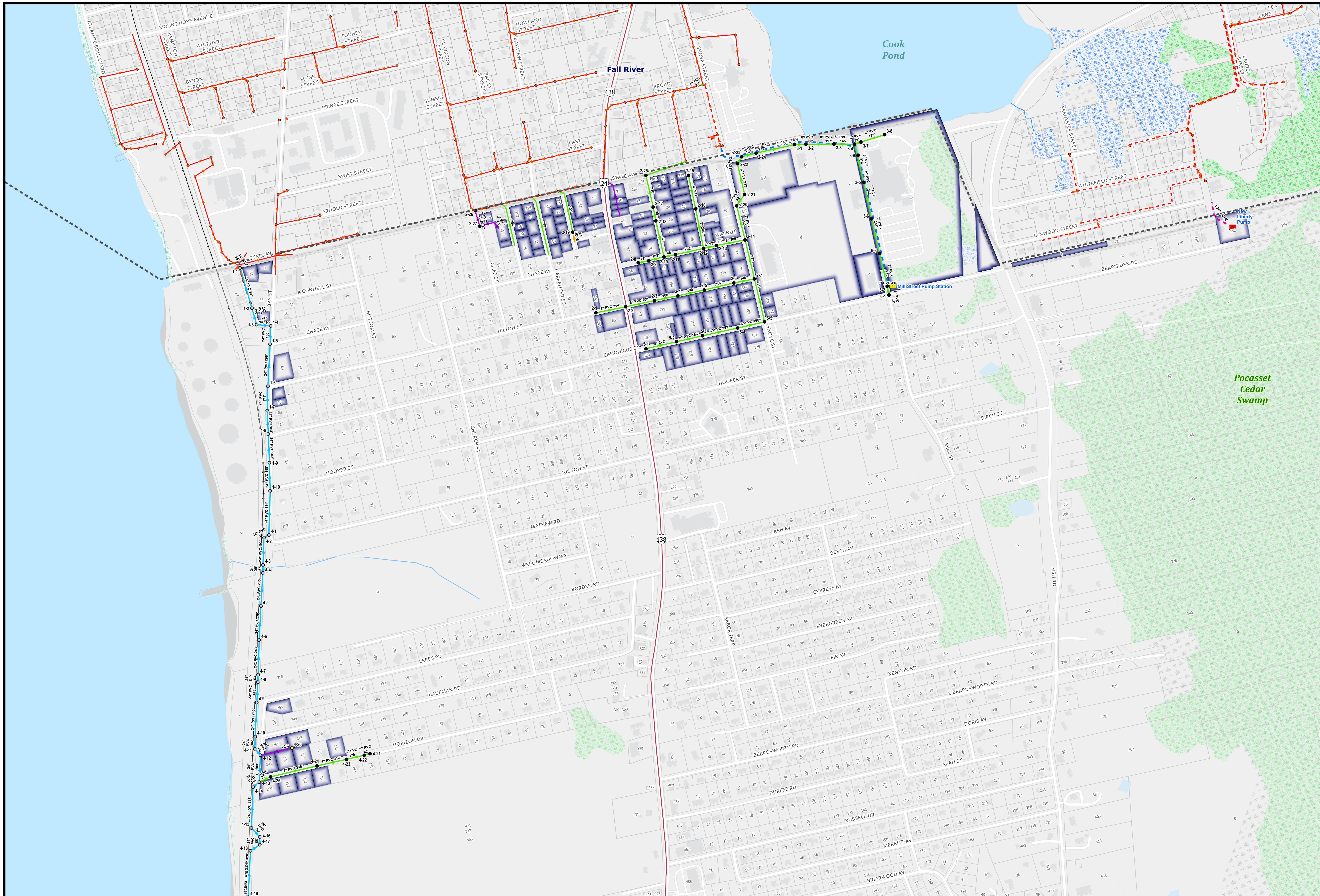
<b>Restoration Area B Station 74+20</b>			Comments (Location, Size, Description, etc.)
Areas of Erosion/ Gully Formation	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Slipping/Sliding/ Sloughing of Bluff	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Vegetative Vigor/Coverage	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Undercutting of Toe	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Seepage Observed from Bluff	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Condition of Erosion Control Matting	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Runoff Entering Area	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

APPENDIX B  
COLLECTION SYSTEM INVENTORY, MAPS and MHI AS-BUILT PLANS

Description	Type of System <sup>1</sup>	Length (feet)	Pipe Diameter (inches)	Material <sup>2</sup>	Service Year	Right of Way/Property Owner <sup>3</sup>
Carpenter Street	GS	380	6	VCP	1950	Town of Tiverton
Blaisdel Street	GS	380	6	VCP	1950	Town of Tiverton
Audet Street	GS	340	6	VCP	1950	Town of Tiverton
State Street (Rock to Clement)	GS	285	8	PVC	1998	Town of Tiverton
Rock Street (Walnut to State)	GS	328	8	PVC	1998	Town of Tiverton
Walnut Street (Shove to Main)	GS	285	8	PVC	2000	Town of Tiverton
Shove Street (Walnut to Hilton)	GS	280	8	PVC	2000	Town of Tiverton
Clement Street (Walnut to State)	GS	540	8	PVC	2000	Town of Tiverton
Shove Street (Hilton to Canonicus)	GS	244	8	PVC	2004	Town of Tiverton
Horizon Drive	GS	805	8	PVC	2004	Town of Tiverton
William Canning Blouvard	LPS	497	2	PVC	2005	RIDOT
Trailer Avenue	GS	301	8	PVC	2007	Private-Abutters
Hilton Street (Shove to Main)	GS	1,140	8	PVC	2007	Town of Tiverton
Hilton Street (Main to NTFD)	GS	235	8	PVC	2009	Town of Tiverton
Canonicus Street (Shove to Main)	GS	1,200	8	PVC	2009	Town of Tiverton
State Ave (Easement to Mill)	GS	792	8	PVC	2010	Town of Tiverton
Mill Street PS FM	FM	2,459	8	PVC	2010	Private-Parcel 102-400
Mill Street	GS	1,011	8	PVC	2010	Private-Parcel 102-400
Shove Street (Walnut to Easement)	GS	301	8	PVC	2011	Town of Tiverton
Easement (Shove to State)	GS	300	8	PVC	2011	Private-Parcel 102-120
<b>FORD FARM SUB-DIVISION</b>						
Easement (Access Driveway)	GS	961	8	PVC	2004	Private-Parcel 117-309
Ford Farm Road (Easement to Main)	GS	1,778	8	PVC	2004	Town of Tiverton
Starlit Road	GS	395	8	PVC	2004	Town of Tiverton
<b>MT. HOPE INTERCEPTOR<sup>4</sup></b>						
Foote Street (Station 0+00 to 5+14)	GS	514	24	PVC	2003	Town of Tiverton
Bay Street (Station 5+14 to 19+97)	GS	1,483	24	PVC	2003	RIDOT
Easement (Station 19+97 to 87+13)	GS	6,716	24	PVC	2003	RIDOT
Easement (Station 87+13 to 104+00)	GS	1,687	18	PVC	2003	Private-Parcel 119-102
Easement (Station (104+00 to 119+56)	GS	1,556	15	PVC	2003	Private-Parcel 119-104
Main Road (Station 119+56 to 120+31)	GS	75	15	PVC	2003	RIDOT
Easement (Station 120+31 to 122+25)	GS	194	15	PVC	2003	Private-Parcel 119-624
Easement (Station 122+25 to 126+72)	GS	447	15	PVC	2003	Private-Parcel 119-624
Easement (Station 126+72 to 130+35)	GS	363	12	PVC	2003	Private-Parcel 119-624
Souza Road (Station 130+35 to 138+16)	GS	781	12	PVC	2003	RIDOT
Souza Road PS FM	FM	3,170	8	PVC	2003	RIDOT
Fish Road PS FM	FM	1,250	8	PVC	2003	RIDOT
Industrial Way PS FM	FM	550	8	PVC	2003	Town of Tiverton
Schooner PS FM	FM	433	4	PVC	2005	Private-Parcel 119-102
<b>COUNTRY VIEW ESTATES</b>						
Entrance Drive (Songbird to Hurst)	GS	126	18	PVC	2018	Private-Parcel 202-139
Sonbird Lane (From CVE GS to Entrance Dr)	GS	50	15	PVC	2018	Private-Parcel 202-139
Songbird Lane (Entrance Dr to Robin Drive)	GS	1,300	8	PVC	2001	Private-Parcel 202-139
Robin Drive	GS	200	8	PVC	2001	Private-Parcel 202-139
Blackbird Street	GS	107	8	PVC	2003	Private-Parcel 202-139
Blackbird Court	GS	384	8	PVC	2003	Private-Parcel 202-139
Blackbird Court PS FM	FM	1,385	4	PVC	2003	Private-Parcel 202-139
<b>WATUPPA PLANTATIONS</b>						
Plantation Drive	LPS	900	3	HDPE	2016	Town of Tiverton
Plantation Drive XC Sewer	LPS	800	3	HDPE	2016	Private-Parcel 201-166
<b>TIVERTON CASINO EXPANSION</b>						
Hurst Lane	GS	2,092	8	PVC	2018	Town of Tiverton
Hurst Lane	GS	138	18	PVC	2018	Town of Tiverton
Lee Way	GS	729	18	PVC	2018	Town of Tiverton
Hancock Street	GS	108	18	PVC	2018	Town of Tiverton

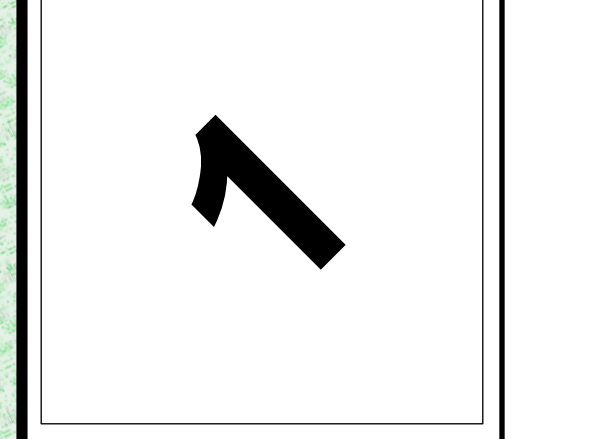
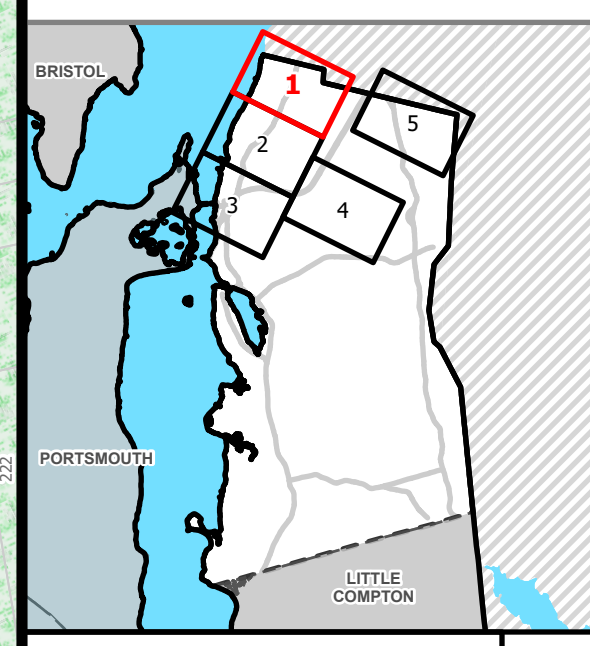
Notes:

1. Type of System Abbreviations Legend GS - gravity sewer, LPS - low pressure sewer, FM - force main sewer
2. Pipe Materials Abbreviations Legend: VCP vitrified clay pipe, PVC - polyvinyl chloride.
3. Right of way and property owner information provided to assist with coordination of access to sewer lines.
4. Mount Hope Interceptor Sewer is Owned by the Town of Tiverton and leased by the TWWD.

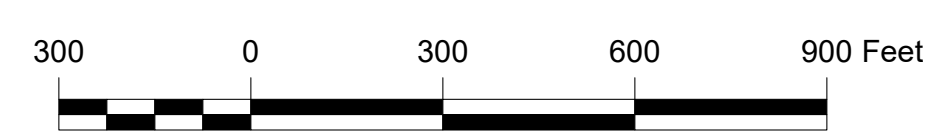


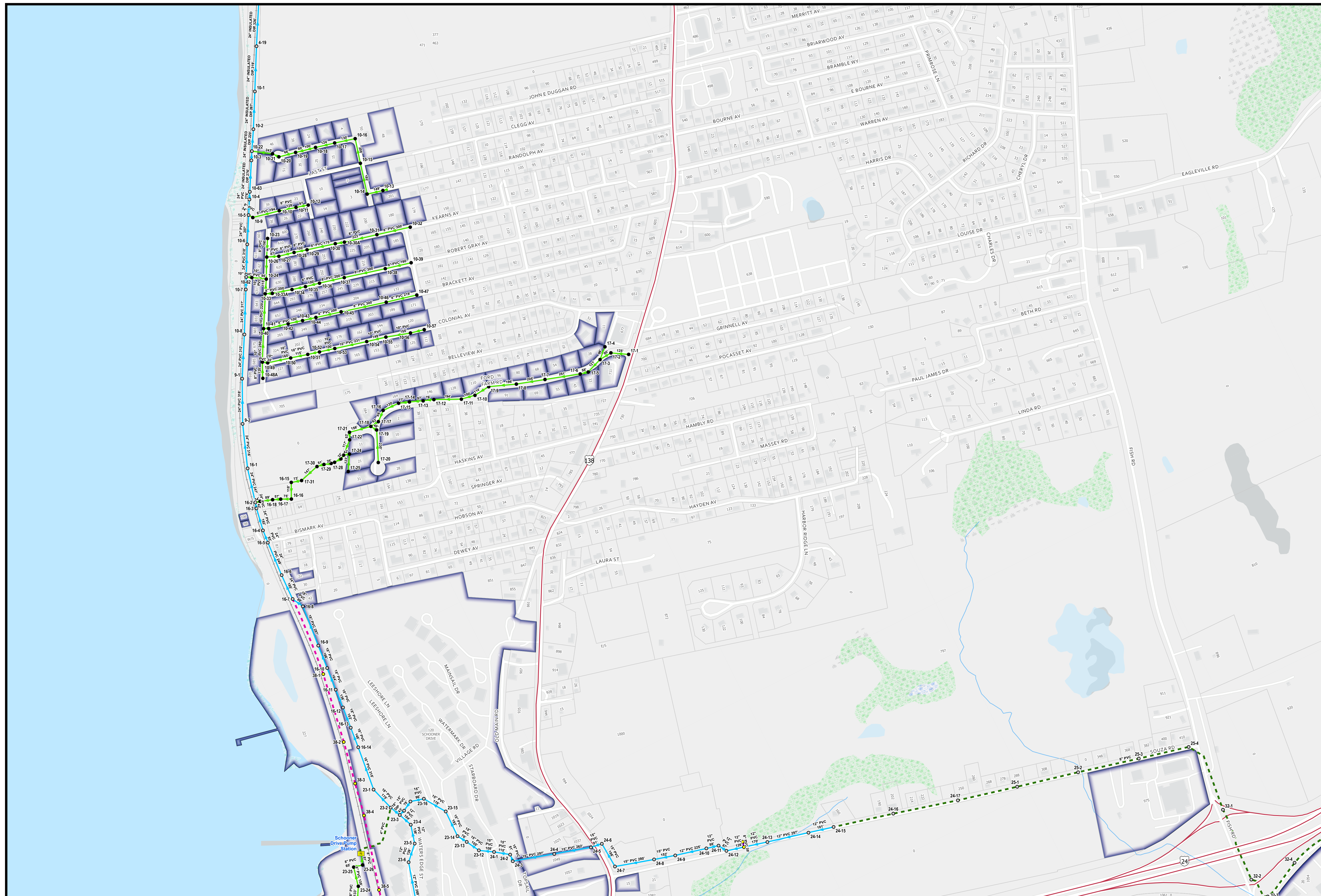
# Tiverton Wastewater District Existing Sewer System

- Private Manhole
- Town of Tiverton Manhole
- TWWD Manhole
- District Pump Stations
- Private Pump Stations
- District Low Pressure Sewer
- Private Low Pressure Sewer
- Private Sewer Gravity Main
- District Sewer Gravity Main
- Town Sewer Gravity Main
- Private Force Main
- Town of Tiverton Force Main
- TWWD Force Main
- Fall River Force Main
- Fall River Gravity Main
- Fall River Sewer Manholes
- - - State Line
- - - Town Line
- Sewered Parcel
- Non-Sewered Parcel



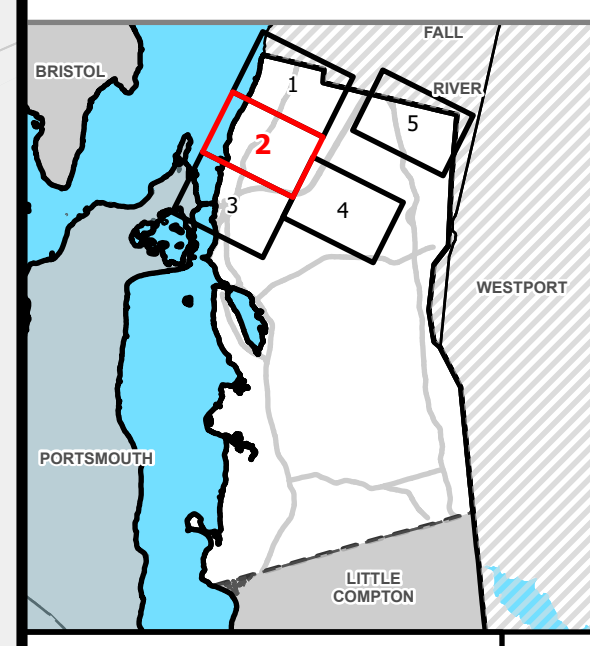
MAP SHEET 1 of 5





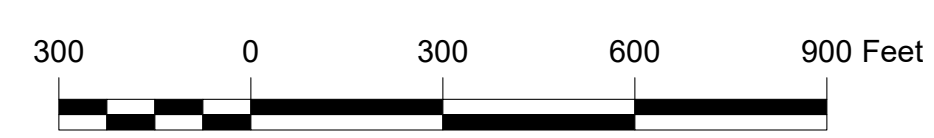
# Tiverton Wastewater District Existing Sewer System

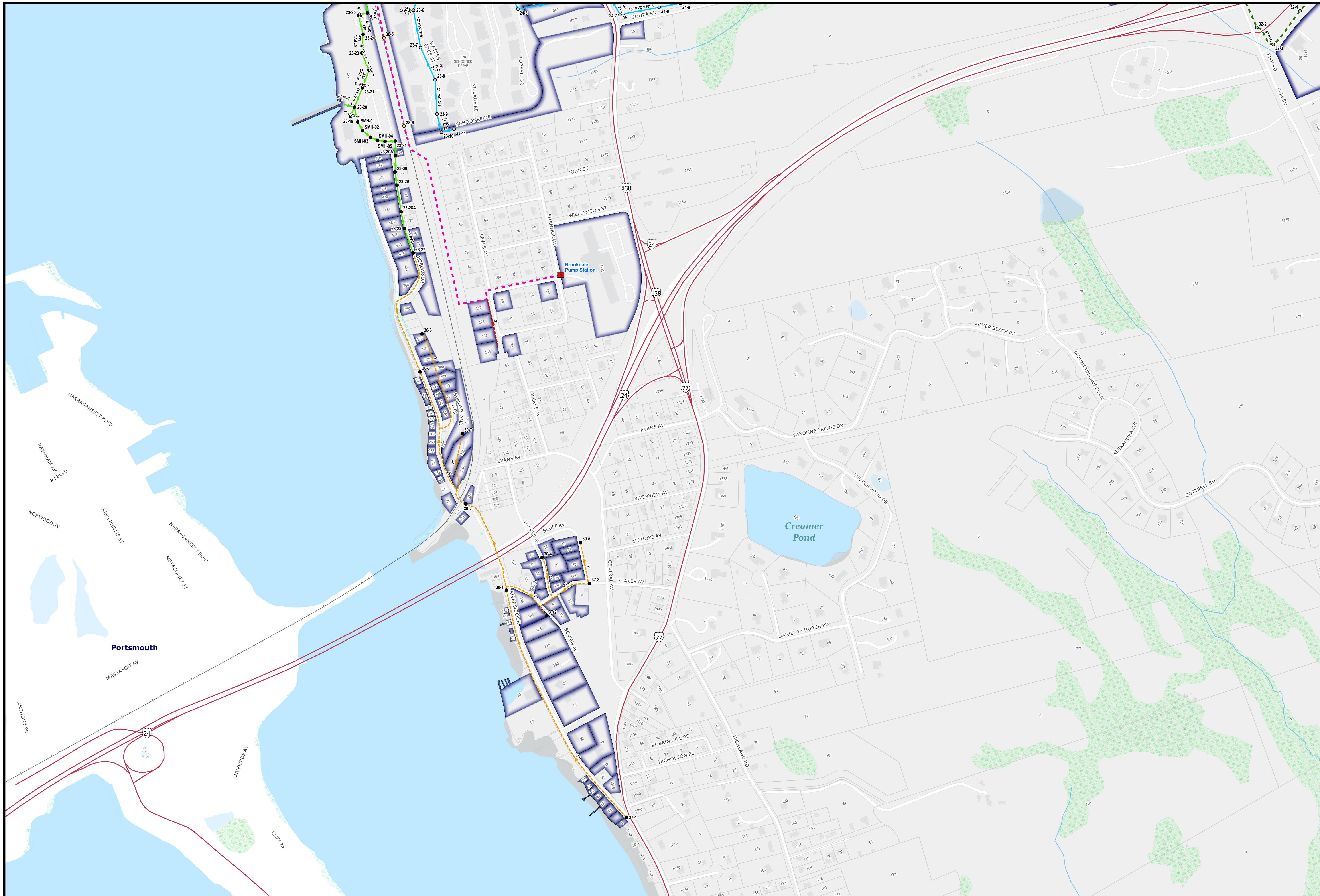
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- TWWD Manhole
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- Private Pump Stations
- District Low Pressure Sewer
- Private Low Pressure Sewer
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- District Sewer Gravity Main
- Town Sewer Gravity Main
- Private Force Main
- Town of Tiverton Force Main
- TWWD Force Main
- Fall River Force Main
- Fall River Sewer Main
- Fall River Sewer Manholes
- State Line
- Town Line
- Sewered Parcel
- Non-Sewered Parcel



# 2

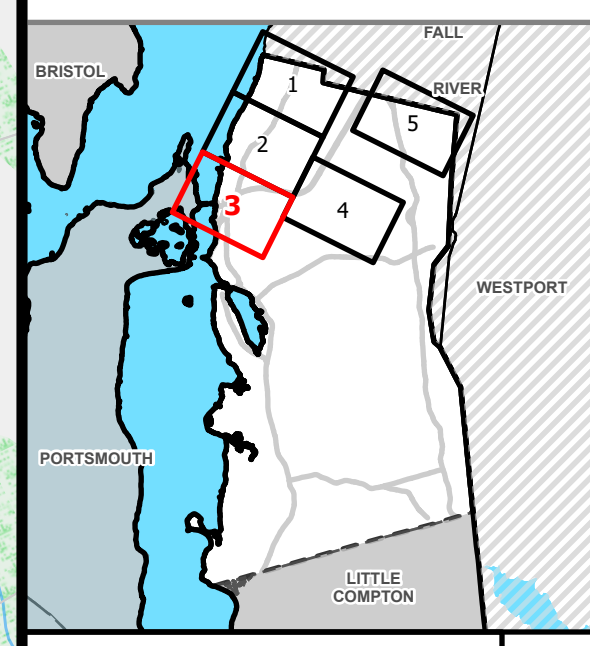
MAP SHEET 2 of 5





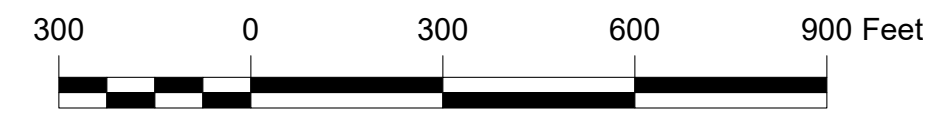
# Tiverton Wastewater District Existing Sewer System

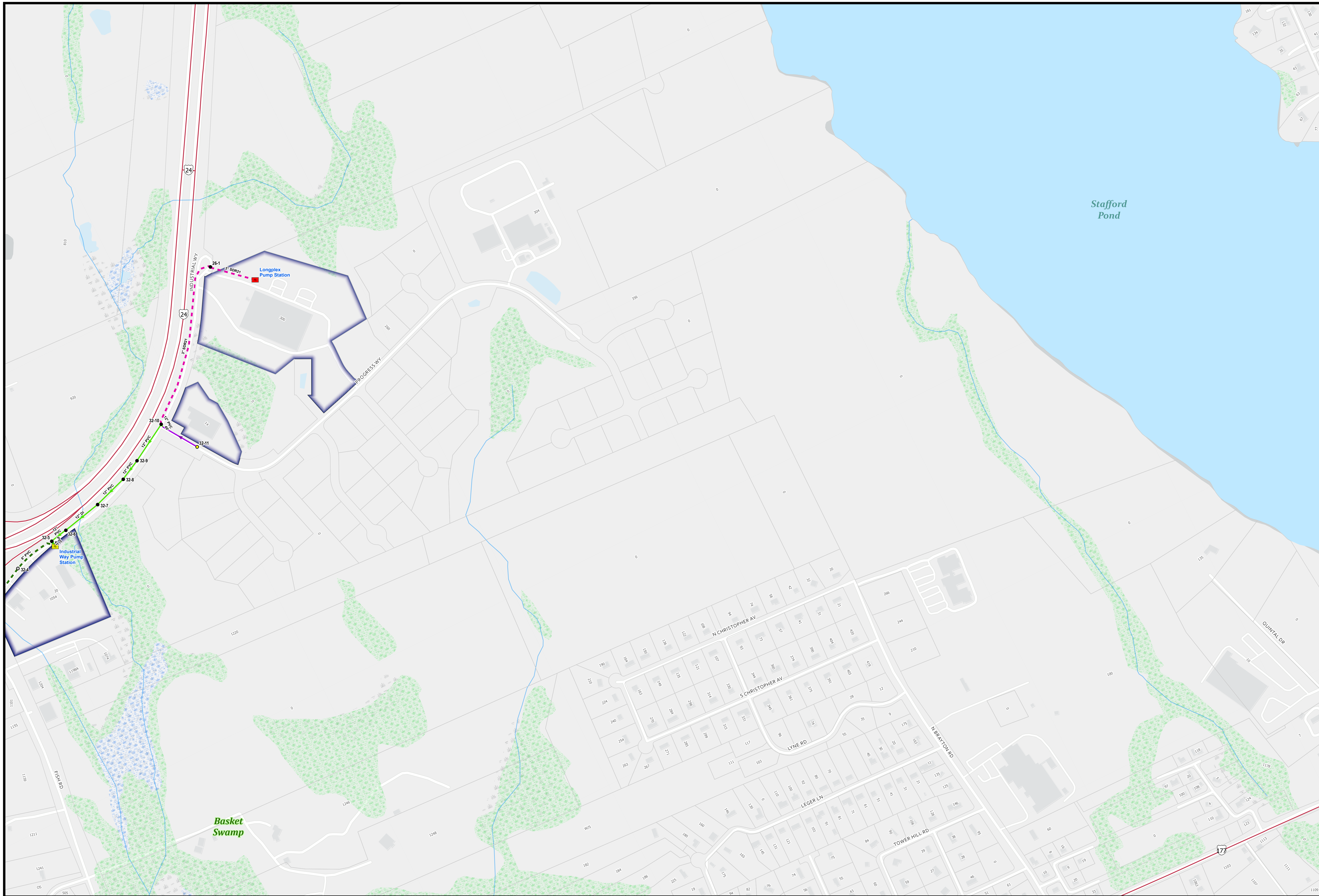
- Private Manhole
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- Private Pump Stations
- District Low Pressure Sewer
- Private Low Pressure Sewer
- Private Sewer Gravity Main
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- Private Force Main
- Town of Tiverton Force Main
- TWWD Force Main
- Fall River Force Main
- Fall River Gravity Main
- Fall River Sewer Manholes
- State Line
- Town Line
- Sewered Parcel
- Non-Sewered Parcel



3

MAP SHEET 3 of 5



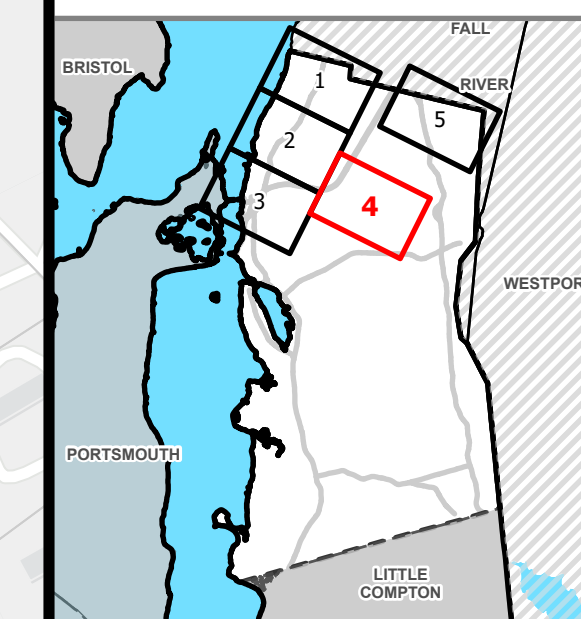


# Tiverton Wastewater District Existing Sewer System



JANUARY 2026

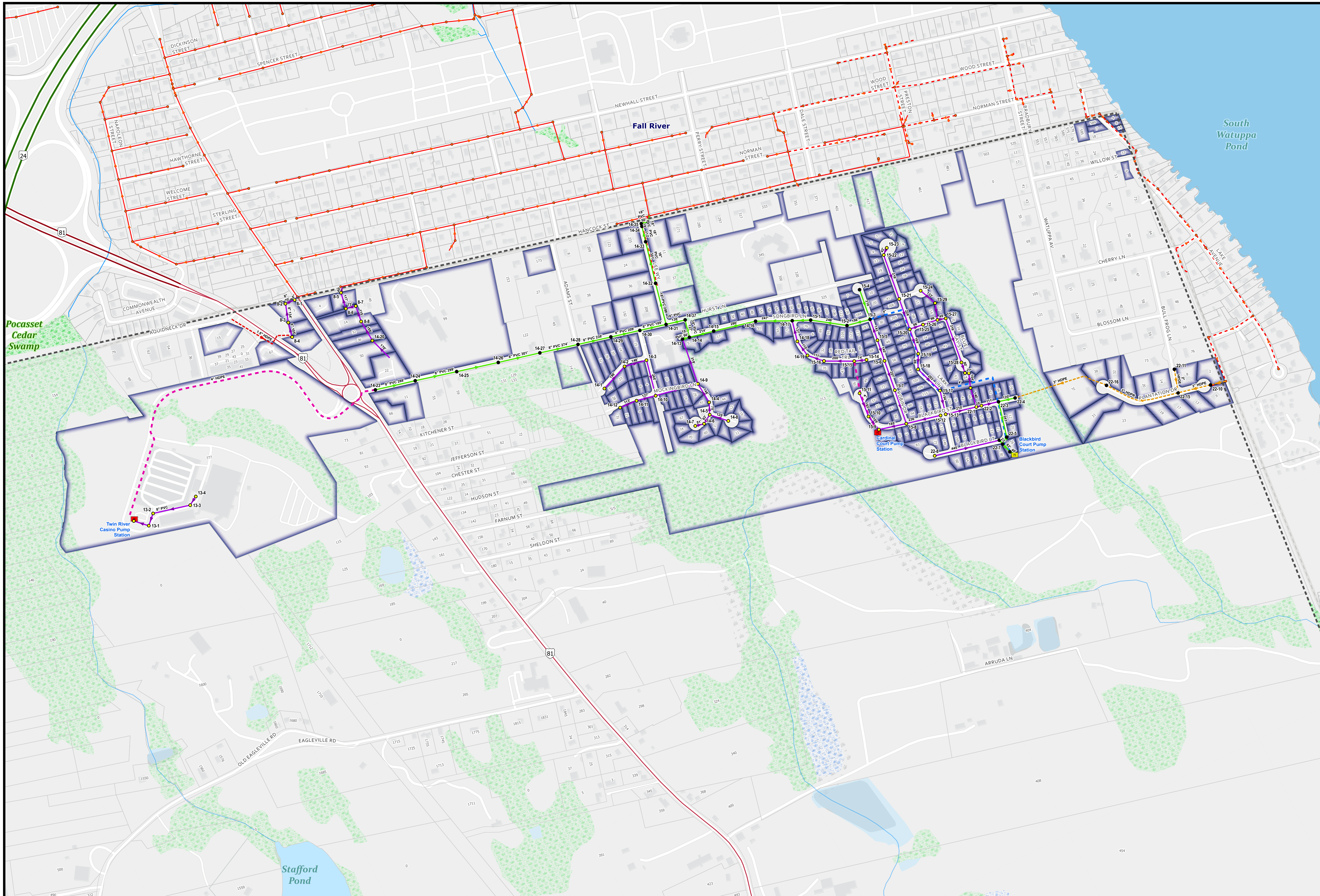
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- TWWD Force Main
- Fall River Force Main
- Fall River Gravity Main
- Fall River Gravity Manholes
- State Line
- Town Line
- Sewered Parcel
- Non-Sewered Parcel



# 4

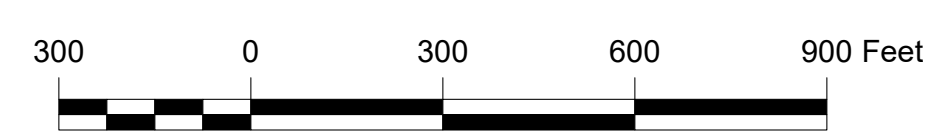
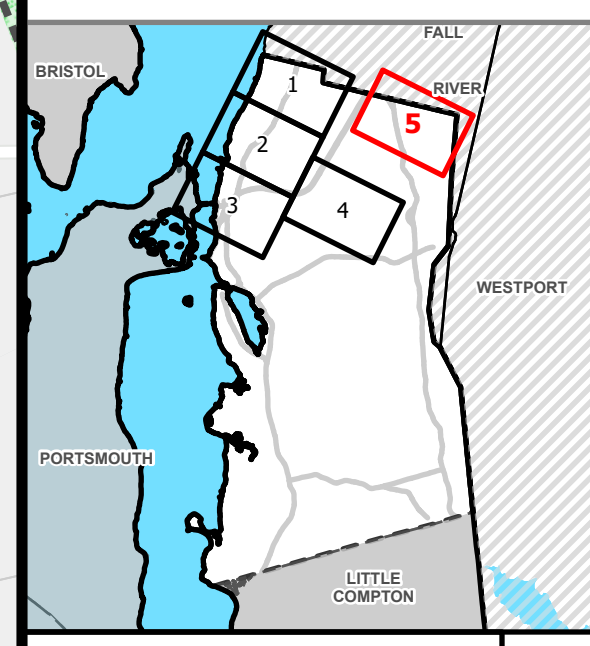
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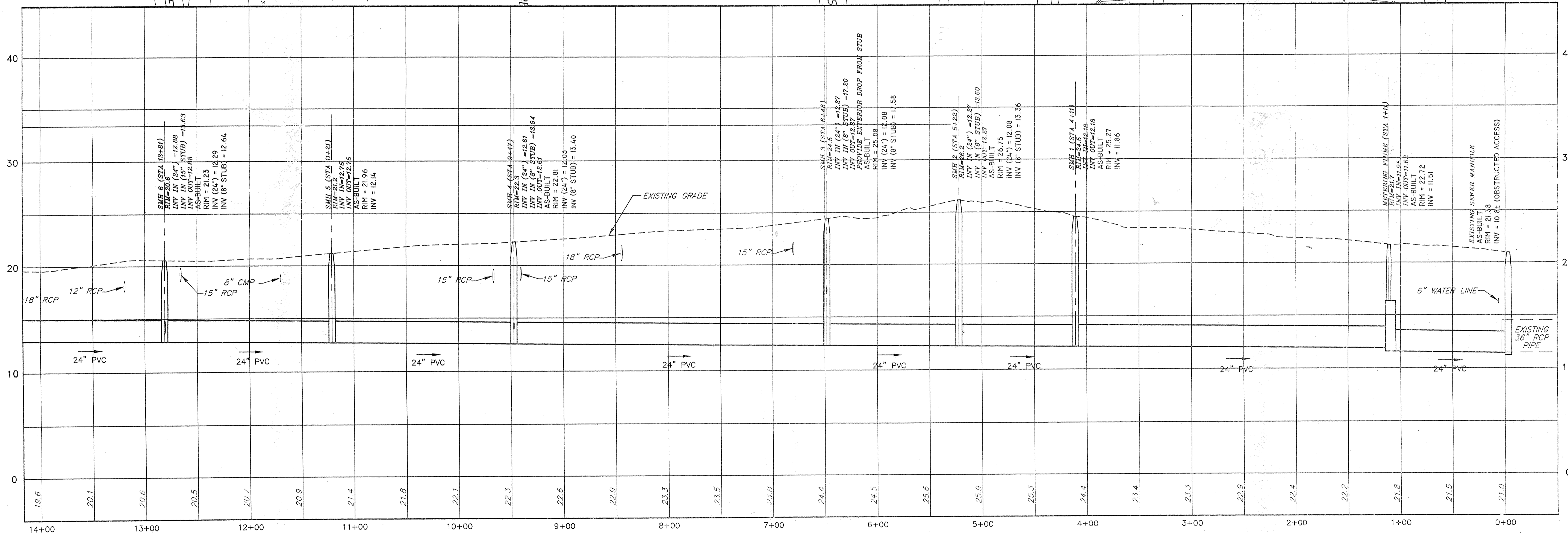
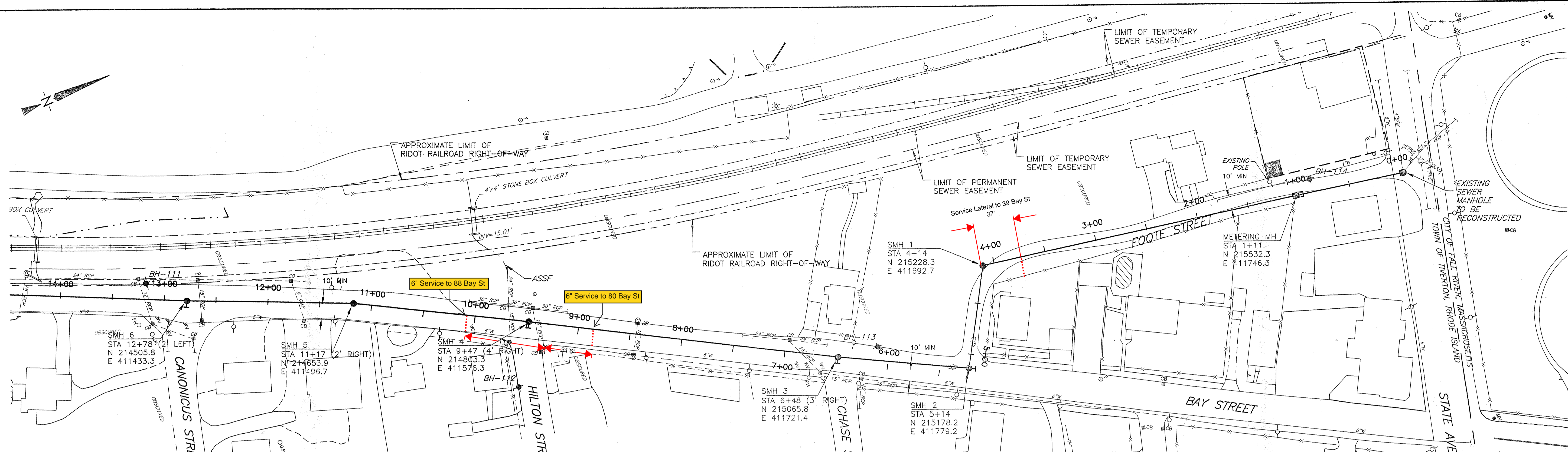




# Tiverton Wastewater District Existing Sewer System

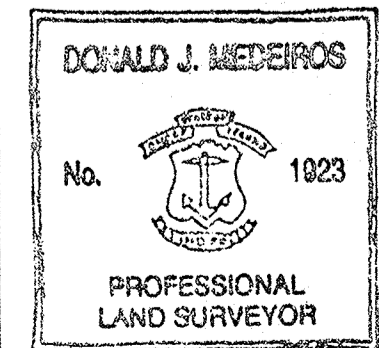
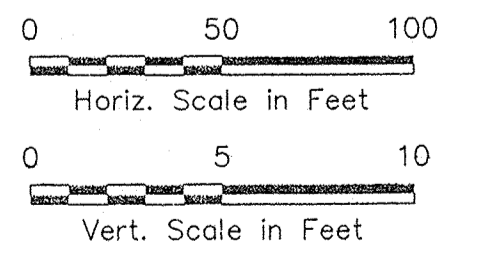
- Private Manhole
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- Private Pump Stations
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- Private Low Pressure Sewer
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- Town Line
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- Non-Sewered Parcel





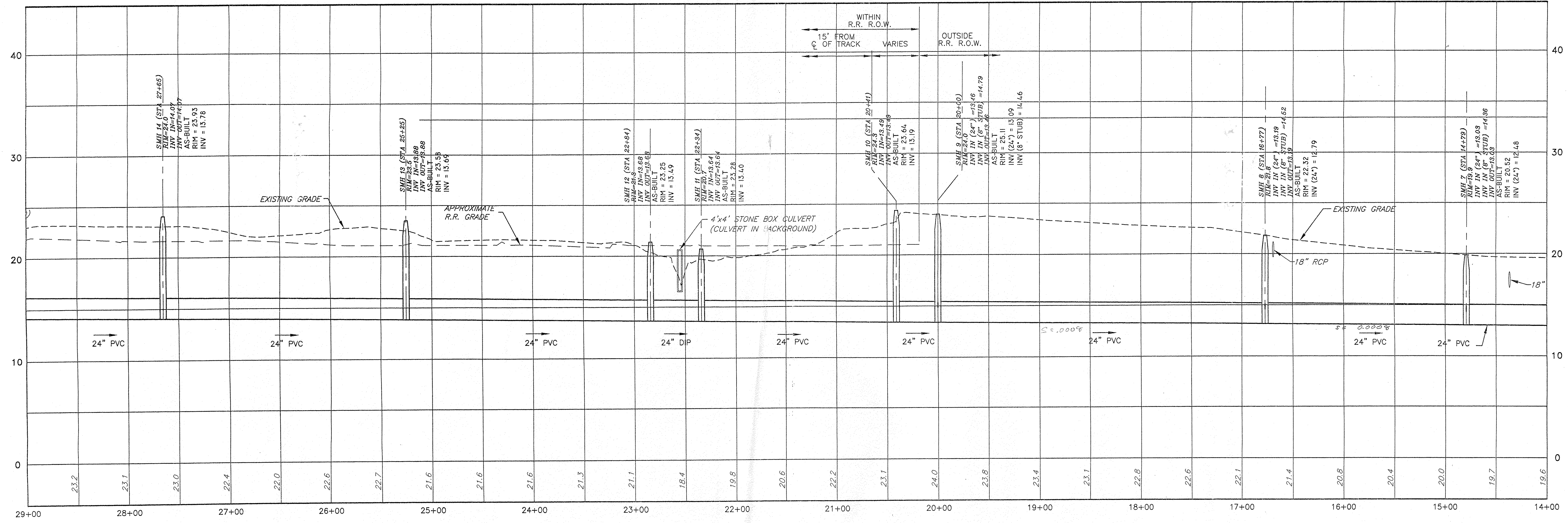
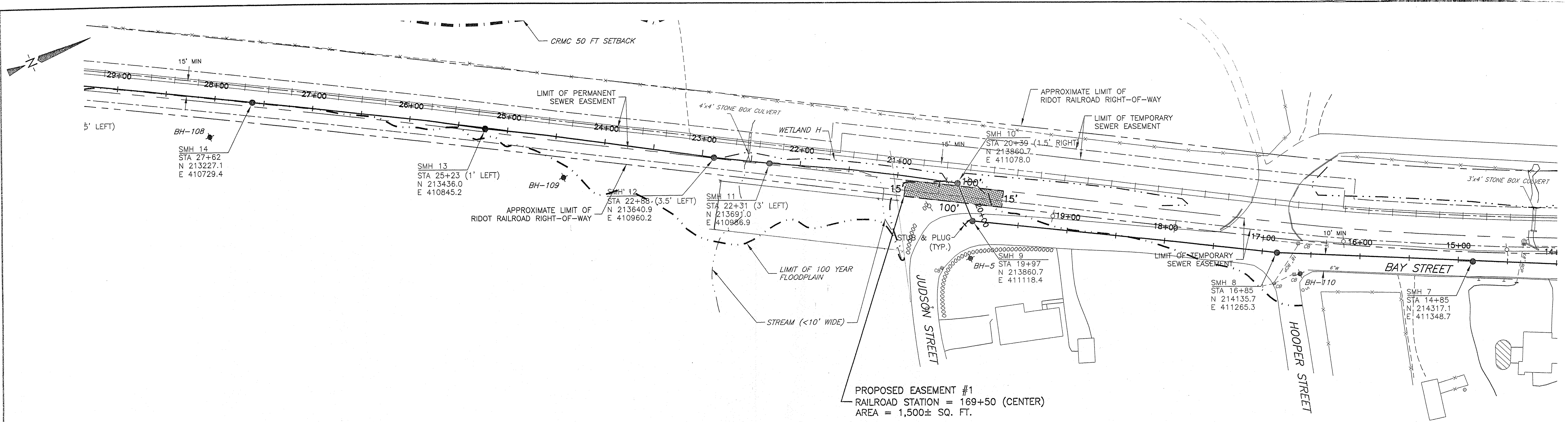
NOTE:  
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*Donald J. Medeiros* 11/18/03  
 DONALD J. MEDEIROS, PLS #1923



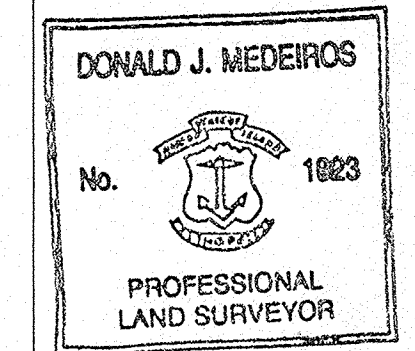
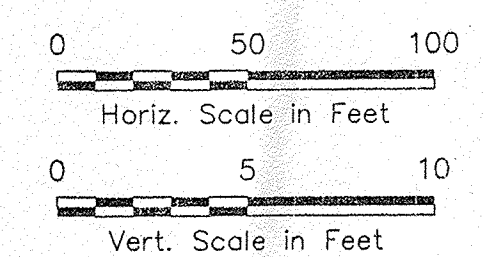
AS-BUILT PLAN  
 MOUNT HOPE BAY INTERCEPTOR SEWER  
 STARWOOD TIVERTON, LLC.  
 TIVERTON, RHODE ISLAND

SCALE: AS NOTED DATE: OCTOBER 29, 2003  
 Civil Engineering Concepts, Inc.  
 1723 STAFFORD ROAD P.O. BOX 3009  
 TIVERTON, RHODE ISLAND 02878 NEW BEDFORD, MA 02741  
 PH: (401) 624-7611 FAX: (401) 624-7551



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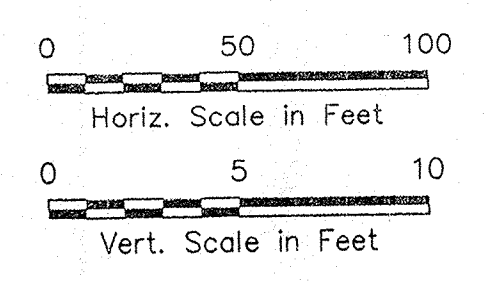
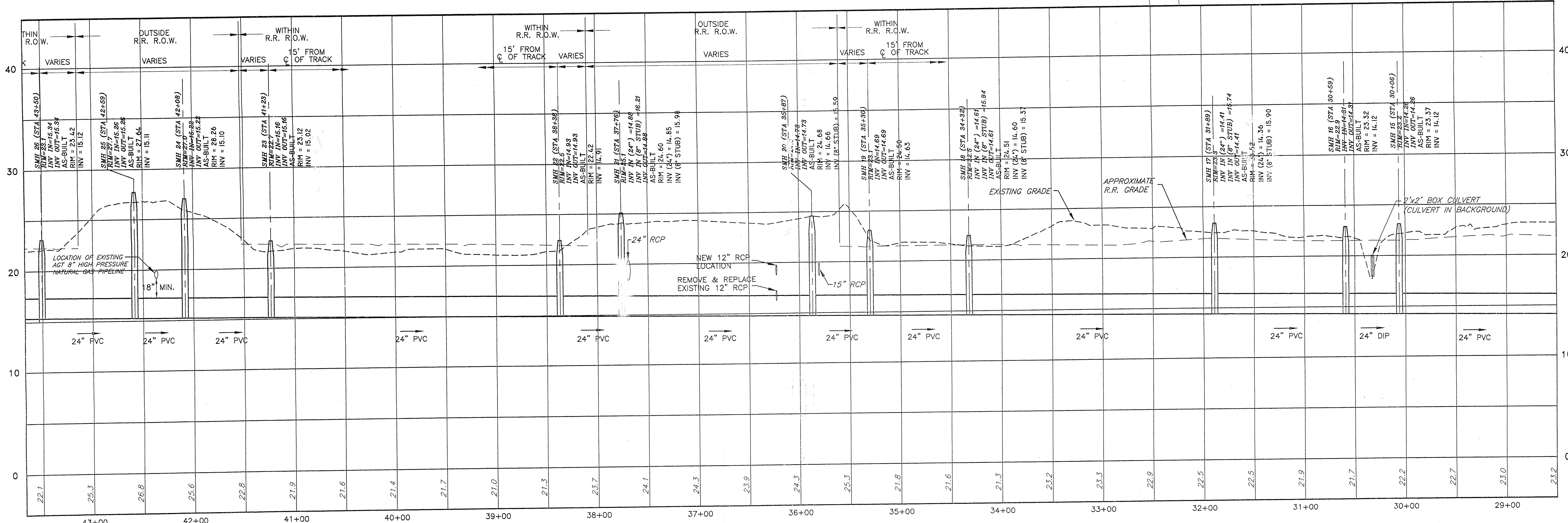
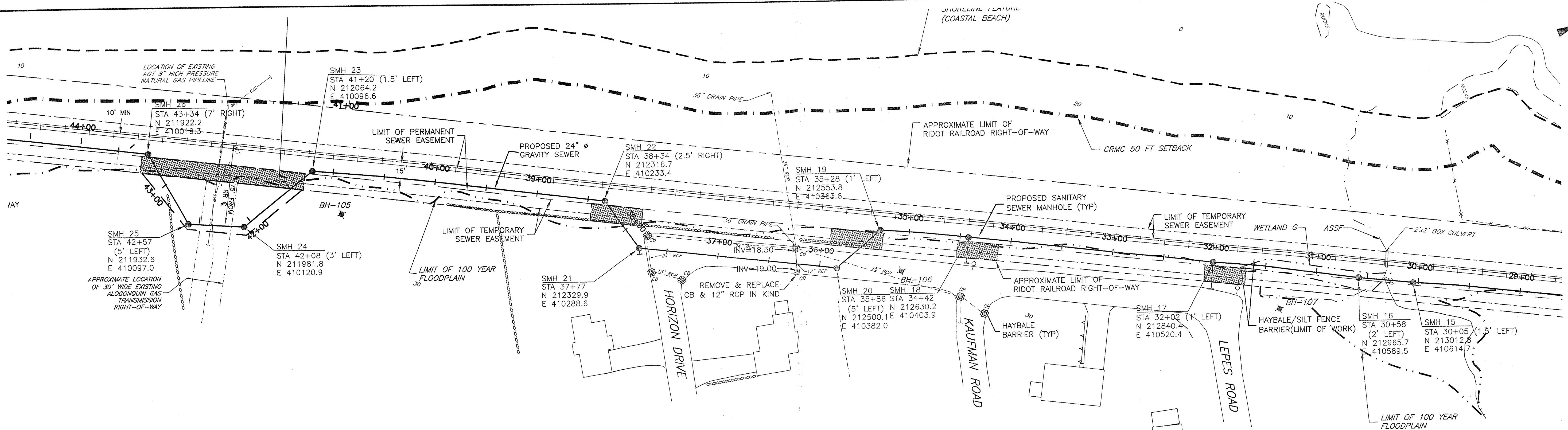
*Donald J. Medeiros* 11/18/03  
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AS-BUILT PLAN  
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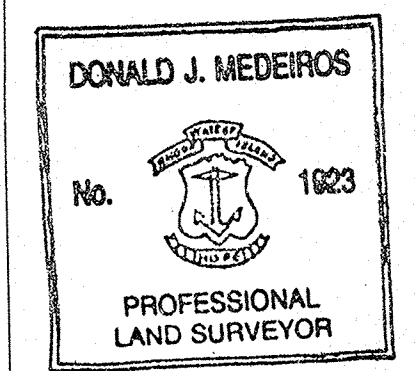
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 PH: (401) 624-7611 FAX: (401) 624-7551  
 SHEET 2 OF 13 JOB#: 00-034



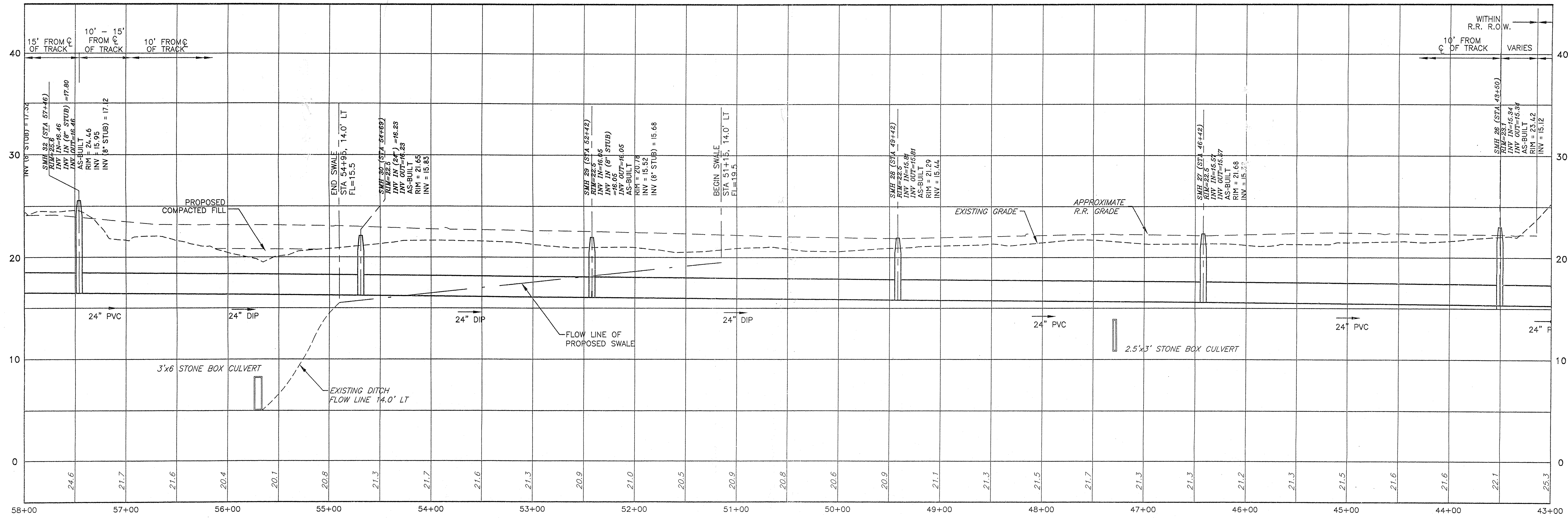
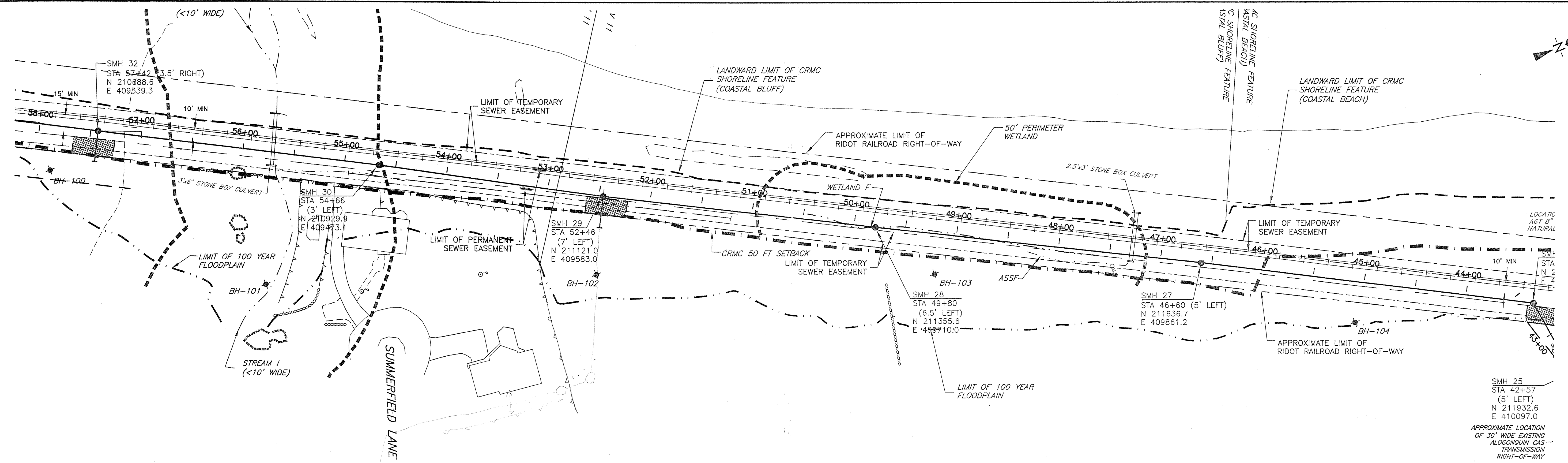
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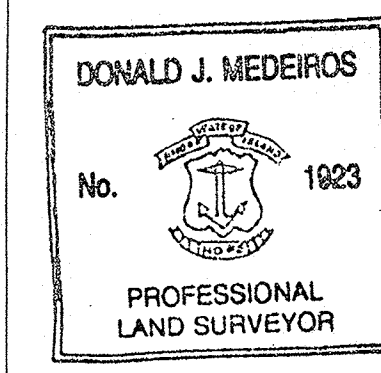
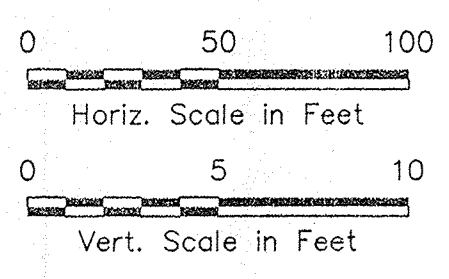
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 SHEET 3 OF 13 JOB#: 00-034



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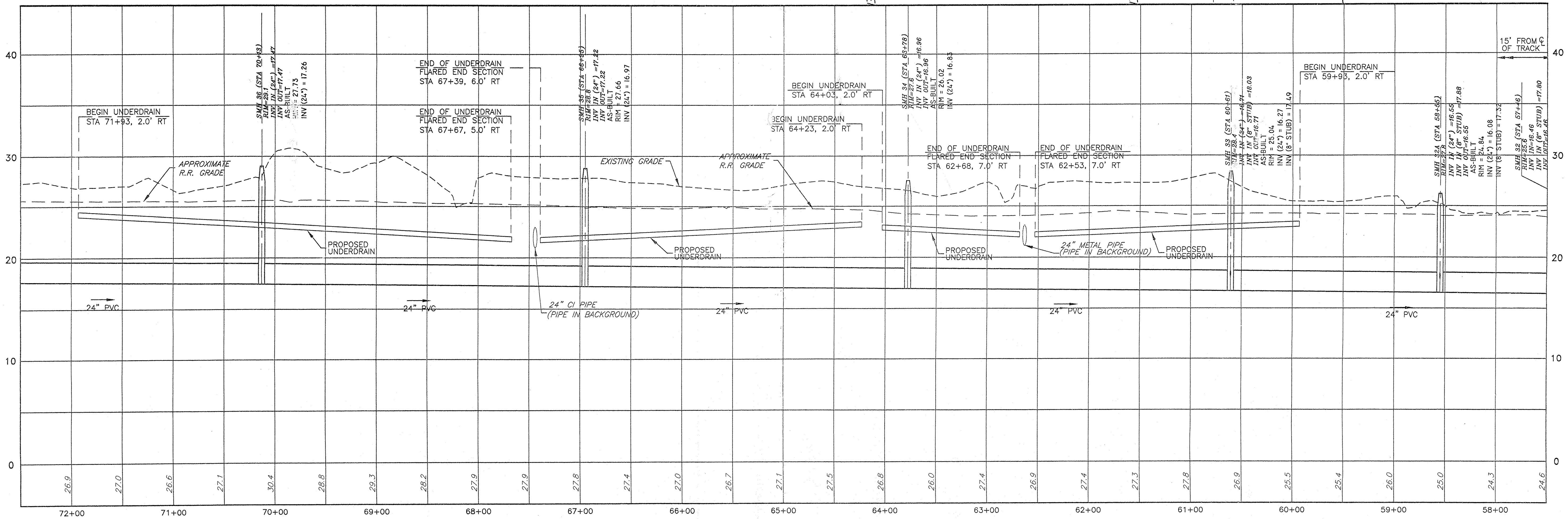
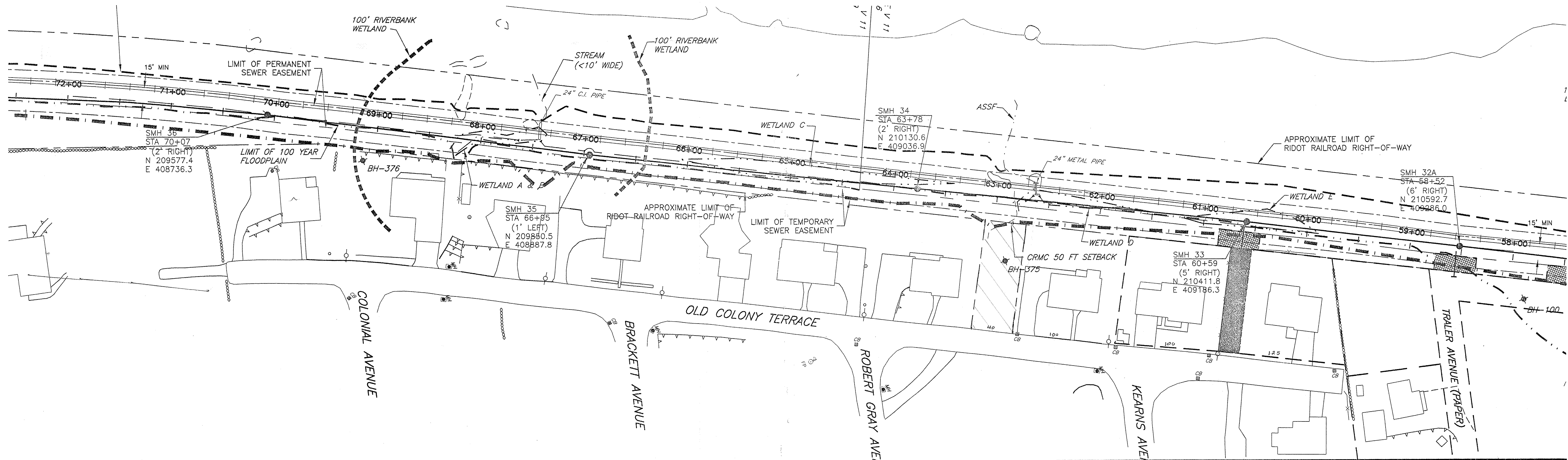
REVISIONS:	

AS-BUILT PLAN  
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 STARWOOD TIVERTON, LLC.  
 TIVERTON, RHODE ISLAND

SCALE: AS NOTED DATE: OCTOBER 29, 2003

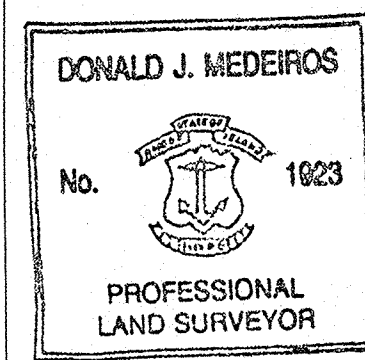
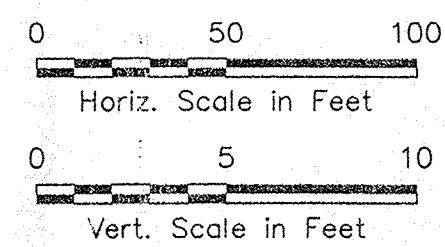
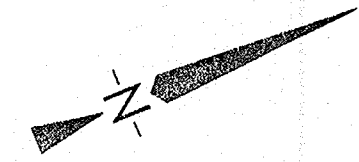
Civil Engineering Concepts, Inc.  
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 (508) 990-4900

SHEET 4 OF 13 JOB#: 00-034



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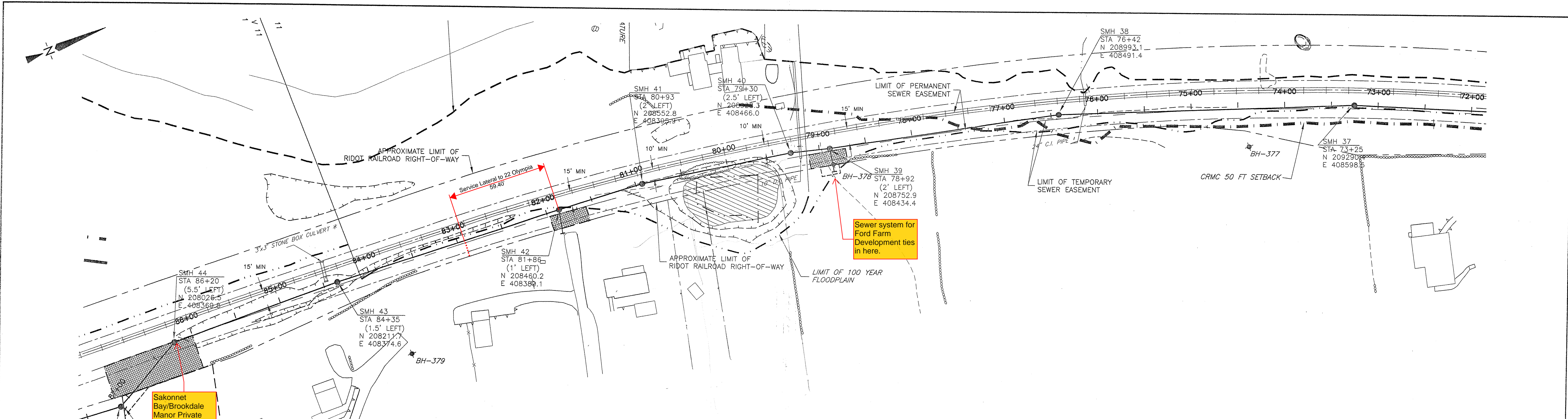
NO.	REVISIONS

AS-BUILT PLAN  
 MOUNT HOPE BAY INTERCEPTOR SEWER  
 STARWOOD TIVERTON, LLC.  
 TIVERTON, RHODE ISLAND

SCALE: AS NOTED DATE: OCTOBER 29, 2003

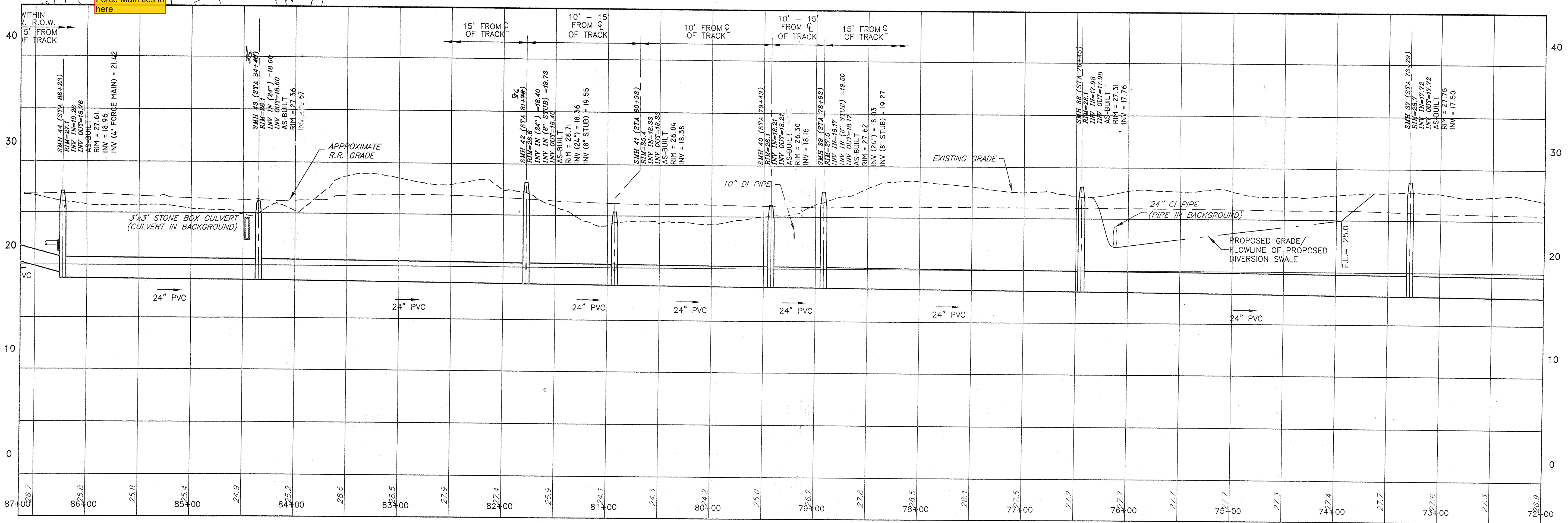
Civil Engineering Concepts, Inc.  
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SHEET 5 OF 13 JOB#: 00-034



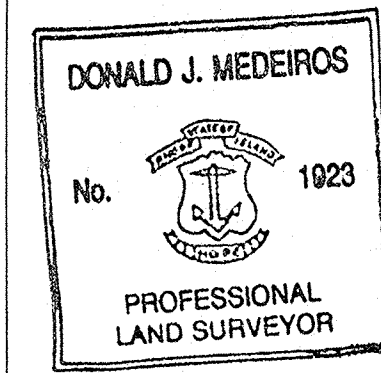
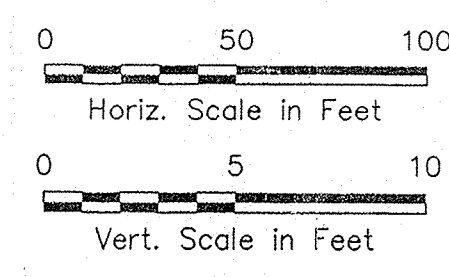
Sakonnet Bay/Brookdale Manor Private Force Main ties in here

Sewer system for Ford Farm Development ties in here.



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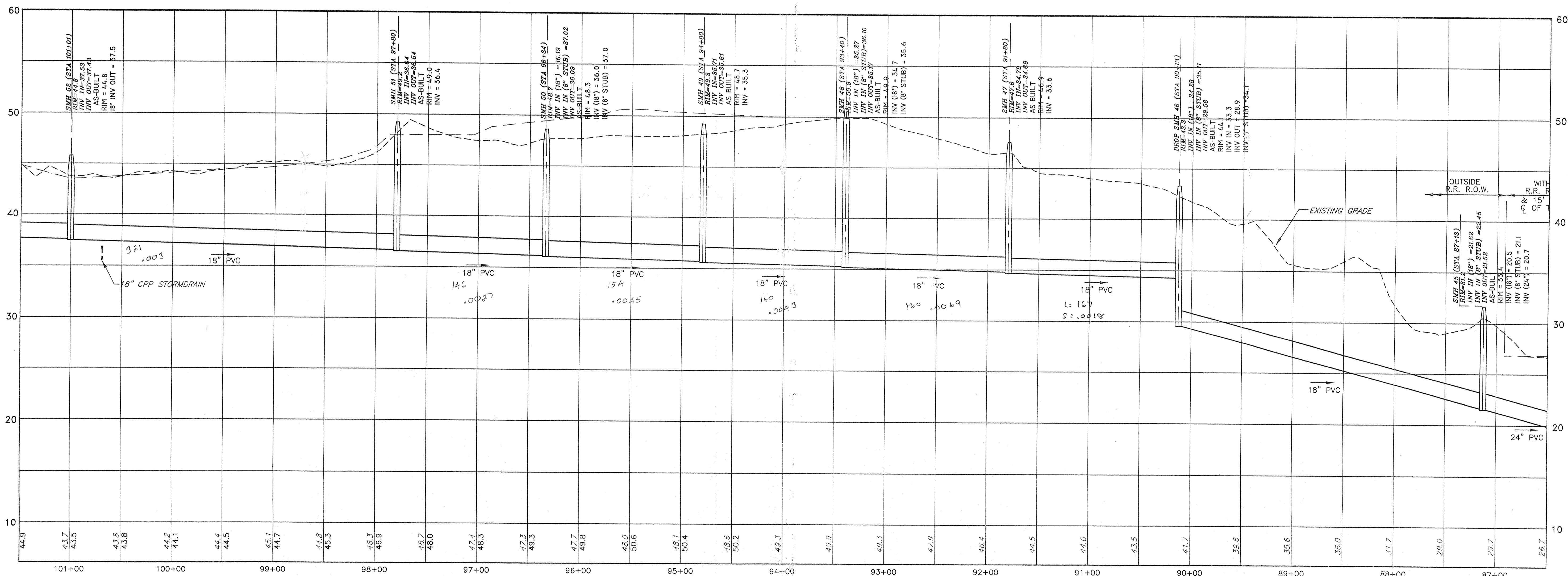
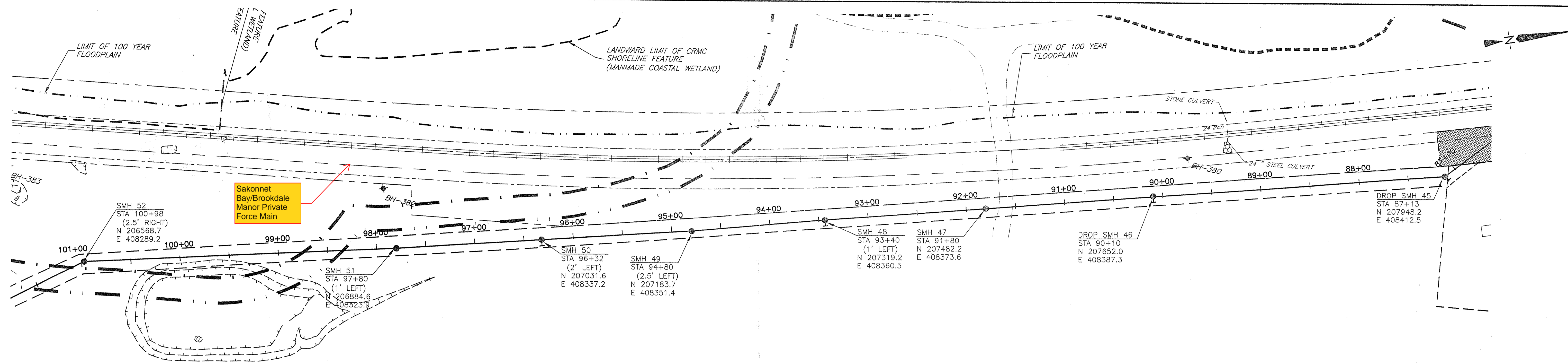
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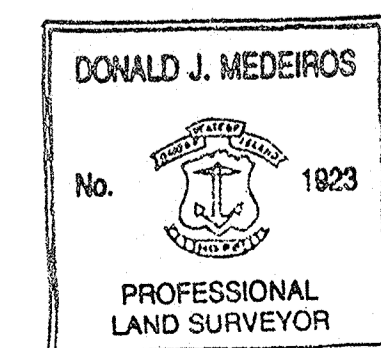
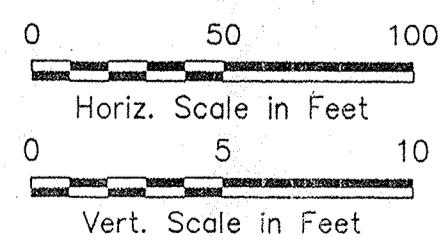
Civil Engineering Concepts, Inc.  
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SHEET 6 OF 13 JOB#: 00-034



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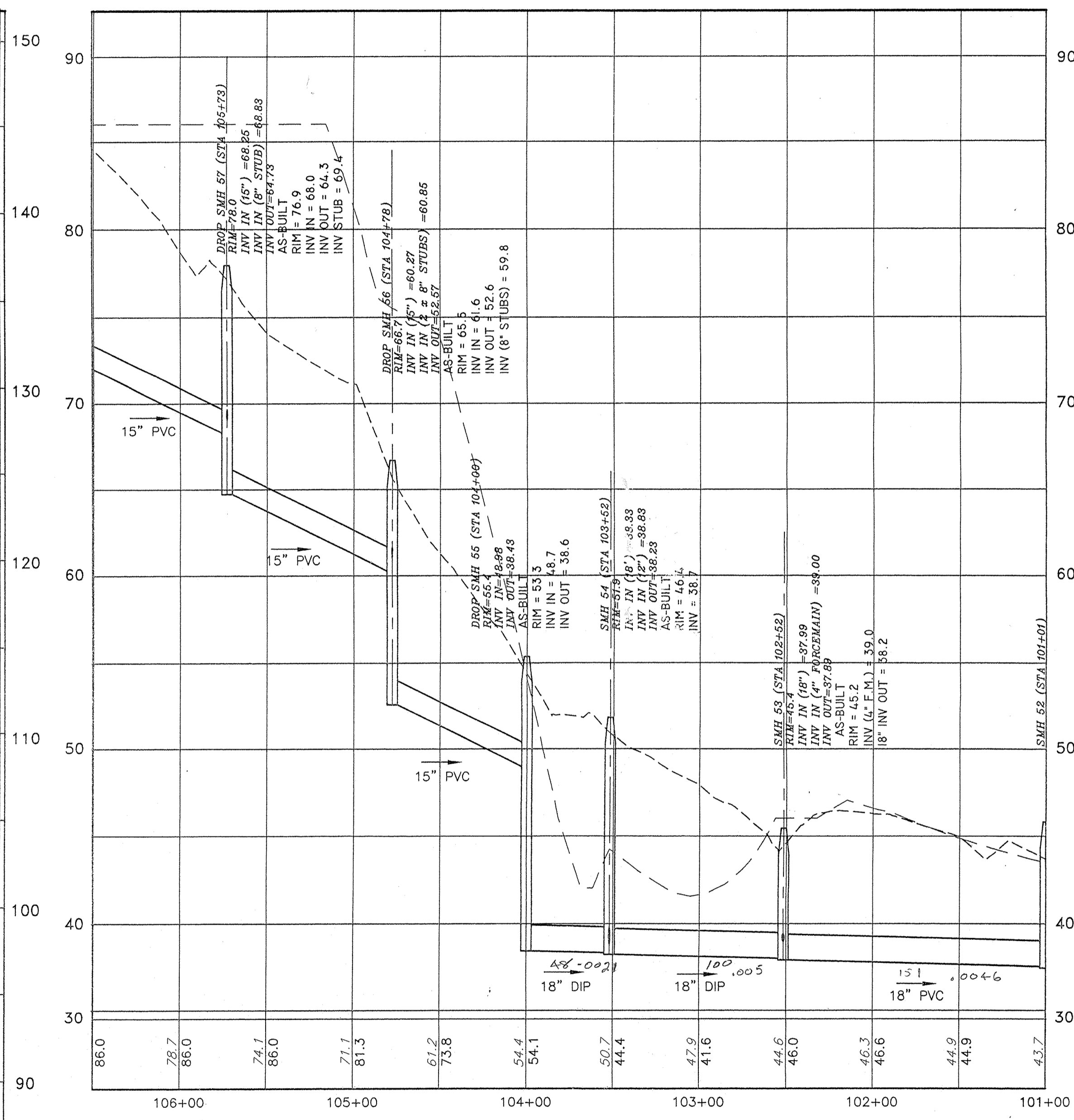
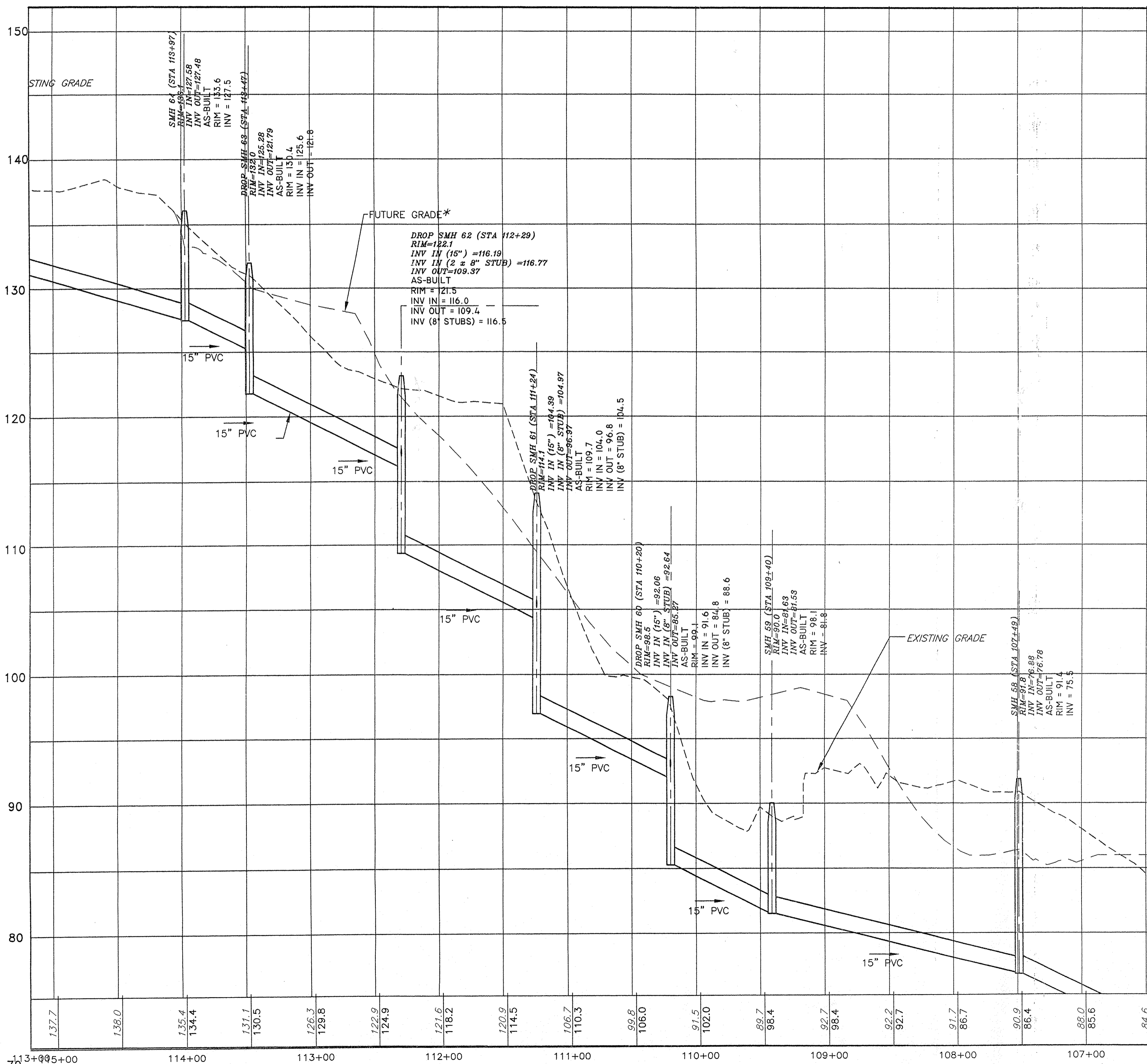
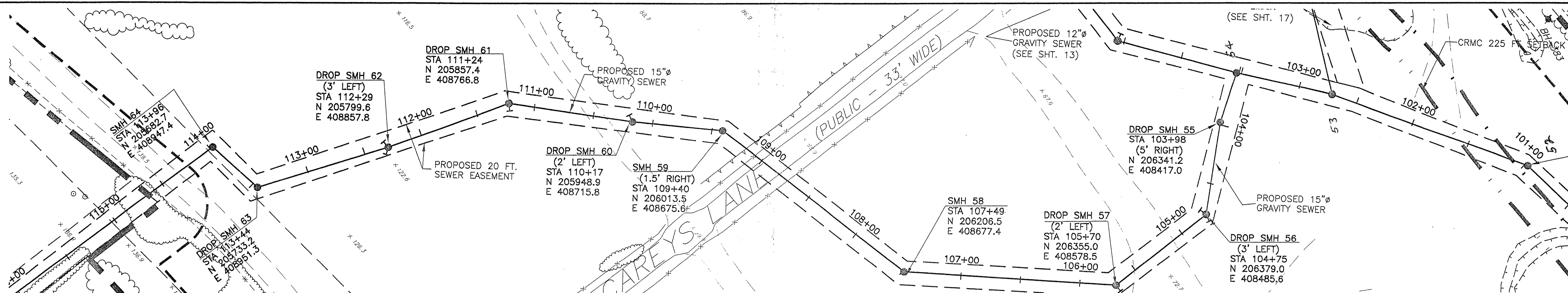
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REVISIONS:

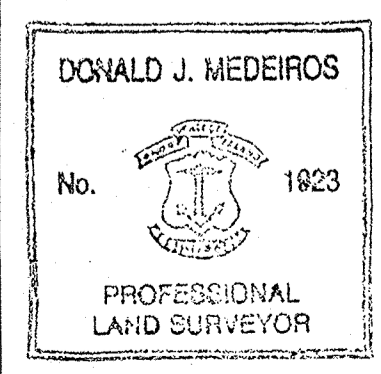
SHEET 7 OF 13

JOB#: 00-034



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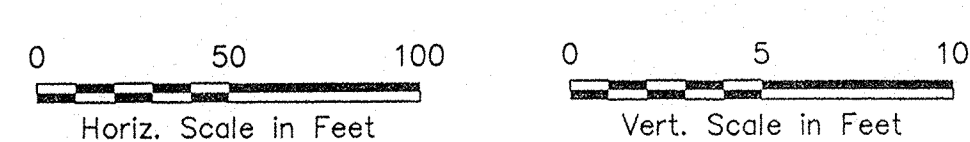


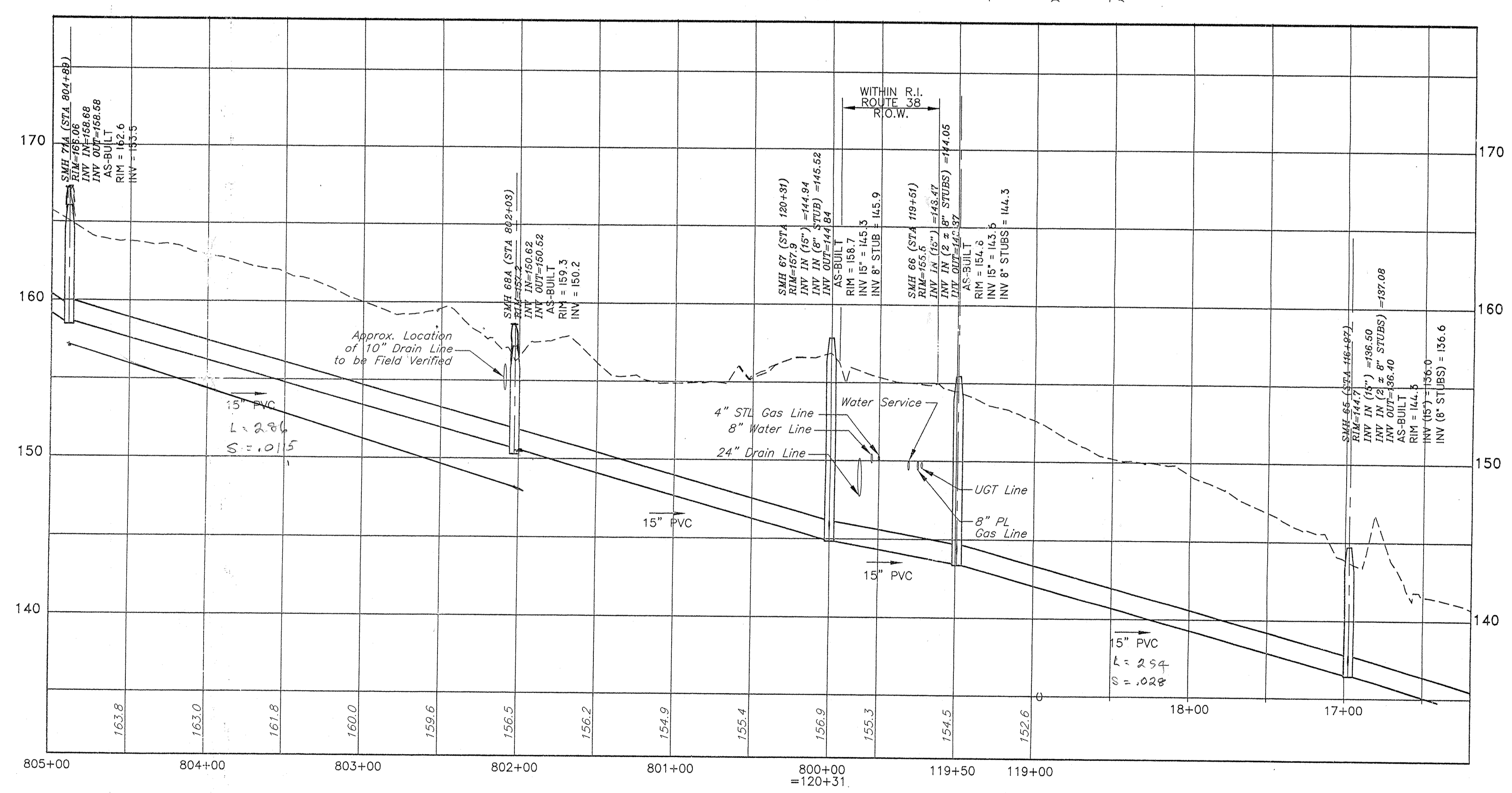
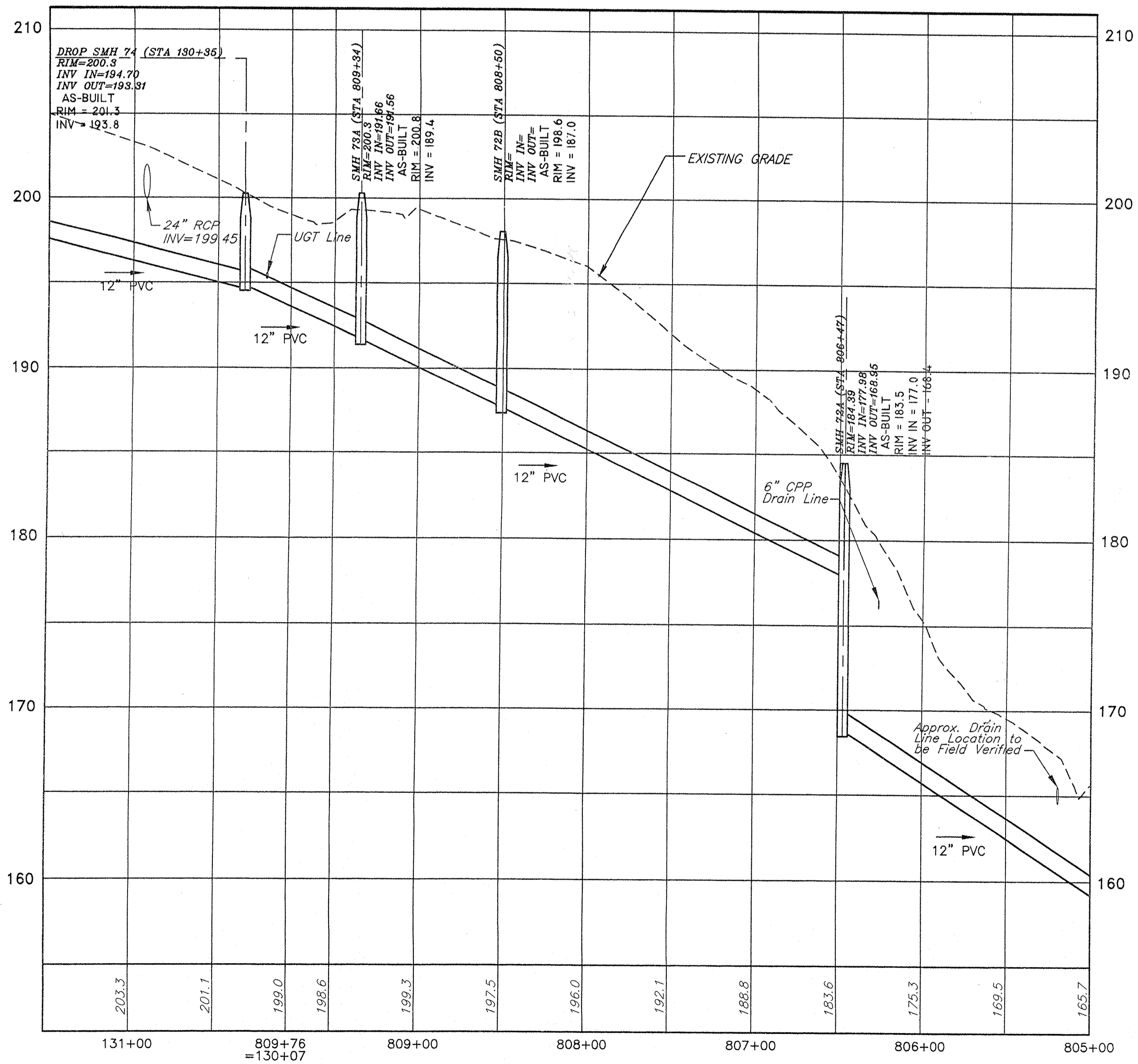
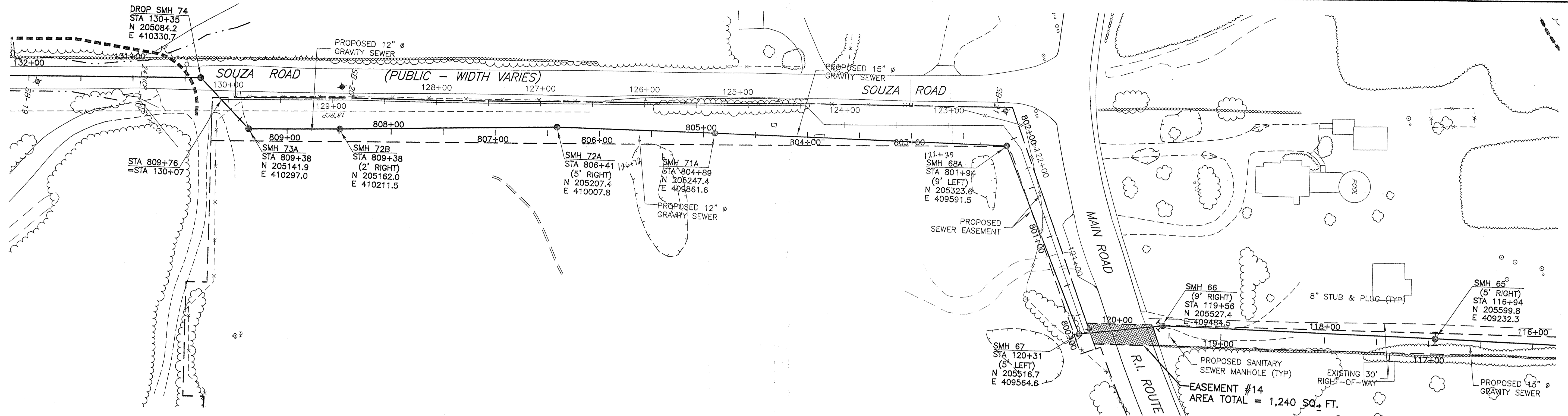
AS-BUILT PLAN  
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 STARWOOD TIVERTON, LLC.  
 TIVERTON, RHODE ISLAND

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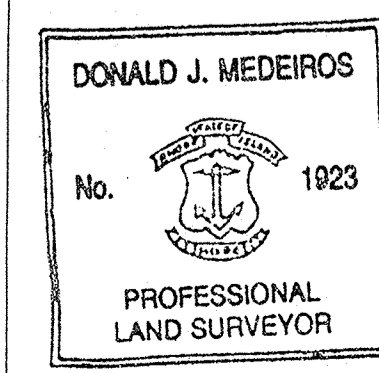
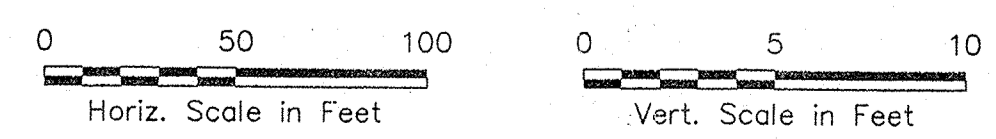
REVISIONS: SHEET 8 OF 13 JOB#: 00-034





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REVISIONS:


AS-BUILT PLAN  
 MOUNT HOPE BAY INTERCEPTOR SEWER  
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 TIVERTON, RHODE ISLAND

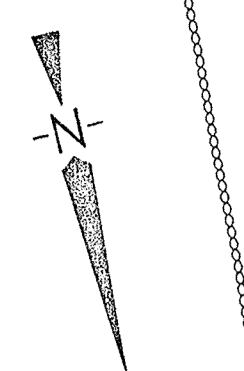
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SHEET 9 OF 13 JOB#: 00-034



MATCH LINE - THIS SHEET

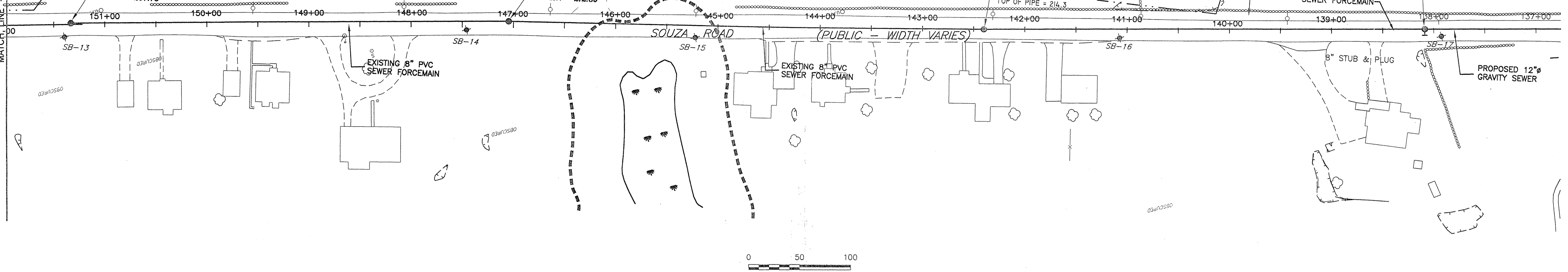


CLEANOUT MH #3  
STA. 151+33  
(1.5' RIGHT)  
N 204586.0  
E 412869.0  
INV = 207.73  
AS-BUILT  
RIM = 213.3  
TOP OF PIPE = 207.8

CLEANOUT MH #2  
STA. 147+04  
(1' RIGHT)  
N 204684.2  
E 411951.7  
INV = 212.80  
AS-BUILT  
RIM = 219.0  
TOP OF PIPE = 213.7

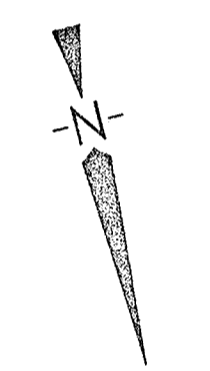
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STA. 142+40  
N 204800.5  
E 411601.9  
INV = 214.18  
AS-BUILT  
RIM = 219.7  
TOP OF PIPE = 214.3

SMH 77  
STA 138+9  
(1.5' RIGHT)  
N 204902.0  
E 411082.8



0 50 100  
Horiz. Scale in Feet

MATCH LINE - THIS SHEET



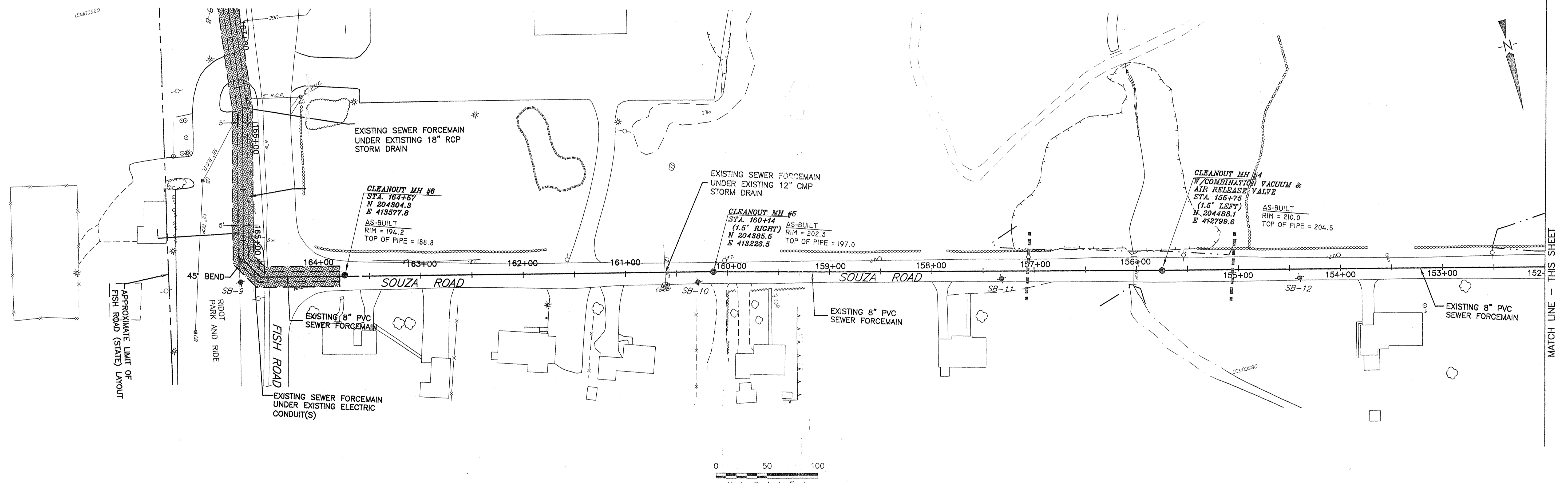
EXISTING SEWER FORCEMAIN UNDER EXISTING 18" RCP STORM DRAIN

EXISTING SEWER FORCEMAIN UNDER EXISTING 12" CMP STORM DRAIN

CLEANOUT MH #4  
W/ COMBINATION VACUUM & AIR RELEASE VALVE  
STA. 155+75  
(1.5' LEFT)  
N 204488.1  
E 412799.6  
AS-BUILT  
RIM = 210.0  
TOP OF PIPE = 204.5

CLEANOUT MH #6  
STA. 164+57  
N 204304.3  
E 413677.8  
AS-BUILT  
RIM = 194.2  
TOP OF PIPE = 188.8

CLEANOUT MH #5  
STA. 160+14  
(1.5' RIGHT)  
N 204385.5  
E 413226.5  
AS-BUILT  
RIM = 202.3  
TOP OF PIPE = 197.0

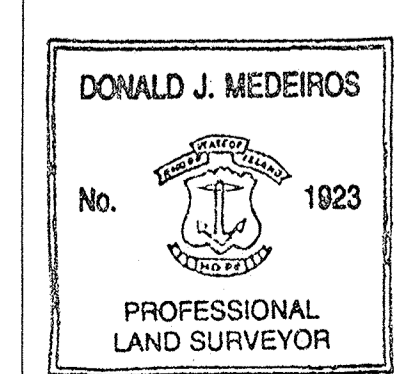


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Horiz. Scale in Feet

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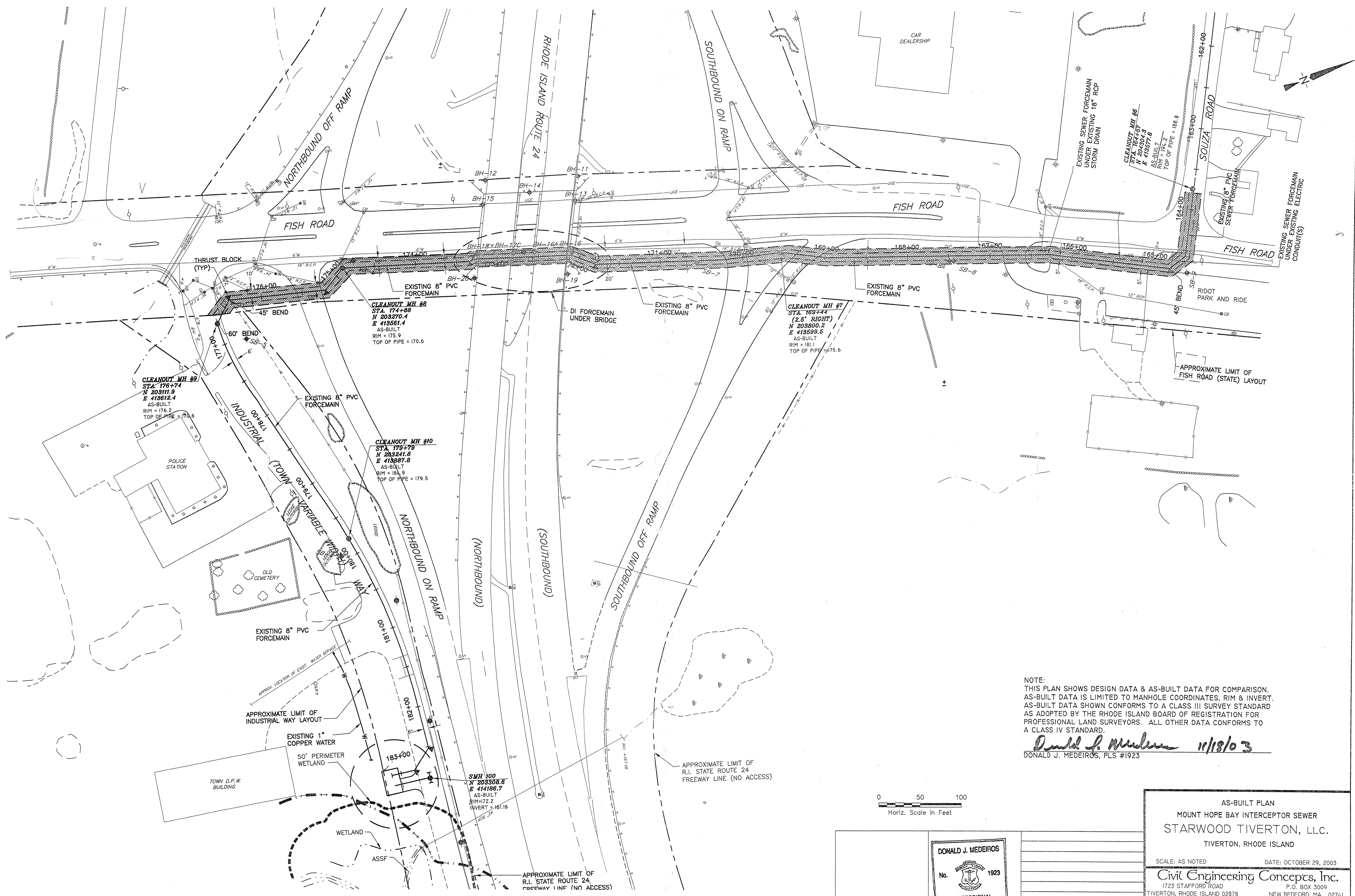
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MOUNT HOPE BAY INTERCEPTOR SEWER  
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REVISIONS:

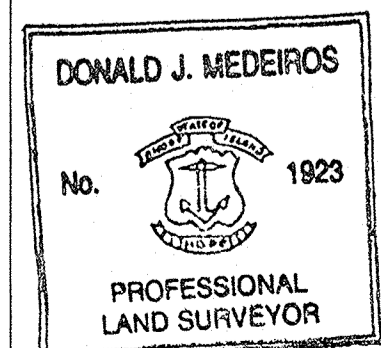
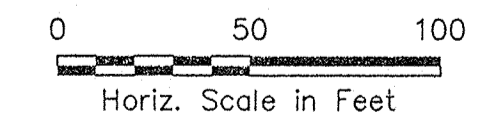
SHEET 11 OF 13

JOB#: 00-034



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REVISIONS: SHEET 12 OF 13 JOB#: 00-034

APPROXIMATE LIMIT OF  
 R.I. STATE ROUTE 24  
 FREEWAY LINE (NO ACCESS)

APPROXIMATE LIMIT OF  
 R.I. STATE ROUTE 24  
 FREEWAY LINE (NO ACCESS)

APPROXIMATE LIMIT OF  
 INDUSTRIAL WAY LAYOUT

APPROXIMATE LIMIT OF  
 FISH ROAD (STATE) LAYOUT



APPENDIX C  
PREVAILING WAGE RATES

"General Decision Number: RI20260001 01/30/2026

Superseded General Decision Number: RI20250001

State: Rhode Island

Construction Types: Building, Heavy (Heavy and Marine) and Highway

Counties: Rhode Island Statewide.

BUILDING CONSTRUCTION PROJECTS (does not include residential construction consisting of single family homes and apartments up to and including 4 stories) HEAVY, HIGHWAY AND MARINE CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	01/02/2026
1	01/23/2026
2	01/30/2026

ASBE0006-006 09/01/2024

Rates	Fringes
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HAZARDOUS MATERIAL HANDLER (Includes preparation, wetting, stripping, removal scrapping, vacuuming, bagging & disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems).....	\$ 49.91	36.63
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ASBE0006-008 09/01/2024

Rates	Fringes
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Asbestos Worker/Insulator Includes application of all insulating materials, protective coverings, coatings & finishes to all types of mechanical systems.	\$ 49.91	36.63
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BOIL0029-001 01/01/2025

Rates	Fringes
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BOILERMAKER.....	\$ 50.62	28.82
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BRR10003-001 06/01/2022

Rates	Fringes
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Bricklayer, Stonemason, Pointer, Caulker & Cleaner.....	\$ 46.86	29.14
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BRR10003-002 09/01/2022

Rates	Fringes
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Marble Setter, Terrazzo  
 Worker & Tile Setter.....\$ 46.54                    30.34

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 BRR10003-003 09/01/2022

	Rates	Fringes
Marble, Tile & Terrazzo Finisher.....	\$ 38.78	29.61

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 CARP0330-001 06/02/2025

	Rates	Fringes
CARPENTER (Includes Soft Floor Layer).....	\$ 47.88	30.50
Diver Tender.....	\$ 48.68	30.50
DIVER.....	\$ 60.83	30.50
Piledriver.....	\$ 41.53	29.35
WELDER.....	\$ 48.68	30.50

FOOTNOTES:

When not diving or tending the diver, the diver and diver tender shall receive the piledriver rate. Diver tenders shall receive \$1.00 per hour above the pile driver rate when tending the diver.

Work on free-standing stacks, concrete silos & public utility electrical power houses, which are over 35 ft. in height when constructed: \$.50 per hour additional.

Work on exterior concrete shear wall gang forms, 45 ft. or more above ground elevation or on setback: \$.50 per hour additional.

The designated piledriver, known as the ""monkey"": \$1.00 per hour additional.

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 CARP1121-002 04/21/2025

	Rates	Fringes
MILLWRIGHT.....	\$ 45.72	31.50

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 ELEC0099-002 06/01/2025

	Rates	Fringes
ELECTRICIAN.....	\$ 56.11	44.10%
Teledata System Installer.....	\$ 42.09	10.45%+15.31

FOOTNOTES:

Work of a hazardous nature, or where the work height is 30 ft. or more from the floor, except when working OSHA-approved lifts: 20% per hour additional.

Work in tunnels below ground level in combined sewer outfall: 20% per hour additional.

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 ELEV0039-001 01/01/2025

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 64.52	38.435+a+b

FOOTNOTES:

a. PAID HOLIDAYS: New Years Day; Memorial Day; Independence Day; Labor Day; Veterans' Day; Thanksgiving Day; the Friday after Thanksgiving Day; and Christmas Day.

b. Employer contributes 8% basic hourly rate for 5 years or more of service of 6% basic hourly rate for 6 months to 5 years of service as vacation pay credit.

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 ENGI0057-001 12/01/2025

	Rates	Fringes
Operating Engineer: (power plants, sewer treatment plants, pumping stations, tunnels, caissons, piers, docks, bridges, wind turbines, subterranean & other marine and heavy construction work)		
GROUP 1.....	\$ 51.30	29.95
GROUP 2.....	\$ 49.30	29.95
GROUP 3.....	\$ 44.92	29.95
GROUP 4.....	\$ 42.07	29.95
GROUP 5.....	\$ 48.35	29.95
GROUP 6.....	\$ 39.15	29.95
GROUP 7.....	\$ 33.15	29.95
GROUP 8.....	\$ 45.00	29.95
GROUP 9.....	\$ 48.92	29.95

a. BOOM LENGTHS, INCLUDING JIBS:

- 150 feet and over + \$ 2.00
- 180 feet and over + \$ 3.00
- 210 feet and over + \$ 4.00
- 240 feet and over + \$ 5.00
- 270 feet and over + \$ 7.00
- 300 feet and over + \$ 8.00
- 350 feet and over + \$ 9.00
- 400 feet and over + \$10.00

a. PAID HOLIDAYS:

New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, Christmas Day. a: Any employee who works 3 days in the week in which a holiday falls shall be paid for the holiday.

a. FOOTNOTES:

Hazmat work: \$2.00 per hour additional.  
 Tunnel/Shaft work: \$5.00 per hour additional.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, lighters, boom trucks and derricks

GROUP 2: Digging machine, Ross Carrier, locomotive, hoist,

elevator, bidwell-type machine, shot & water blasting machine, paver, spreader, graders, front end loader (3 yds. and over), vibratory hammer & vacuum truck, roadheaders, forklifts, economobile type equipment, tunnel boring machines, concrete pump and on site concrete plants.

GROUP 3: Oilers on cranes.

GROUP 4: Oiler on crawler backhoe.

GROUP 5: Bulldozer, bobcats, skid steer loader, tractor, scraper, combination loader backhoe, roller, front end loader (less than 3 yds.), street and mobile-powered sweeper (3-yd. capacity), 8-ft. sweeper minimum 65 HP).

GROUP 6: Well-point installation crew.

GROUP 7: Utility Engineers and Signal Persons

GROUP 8: Heater, concrete mixer, stone crusher, welding machine, generator and light plant, gas and electric driven pump and air compressor.

GROUP 9: Boat & tug operator.

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ENGI0057-003 12/01/2025

BUILDING CONSTRUCTION

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 50.57	29.95
GROUP 2.....	\$ 48.57	29.95
GROUP 3.....	\$ 48.35	29.95
GROUP 4.....	\$ 44.35	29.95
GROUP 5.....	\$ 41.50	29.95
GROUP 6.....	\$ 47.65	29.95
GROUP 7.....	\$ 47.22	29.95
GROUP 8.....	\$ 44.54	29.95

a. BOOM LENGTHS, INCLUDING JIBS:

- 150 ft. and over: + \$ 2.00
- 180 ft. and over: + \$ 3.00
- 210 ft. and over: + \$ 4.00
- 240 ft. and over: + \$ 5.00
- 270 ft. and over: + \$ 7.00
- 300 ft. and over: + \$ 8.00
- 350 ft. and over: + \$ 9.00
- 400 ft. and over: + \$10.00

a. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day & Christmas Day. a: Any employee who works 3 days in the week in which a holiday falls shall be paid for the holiday.

- a. FOOTNOTE: Hazmat work: \$2.00 per hour additional.
- Tunnel/Shaft work: \$5.00 per hour additional.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, lighters, boom trucks and derricks.

GROUP 2: Digging machine, Ross carrier, locomotive, hoist, elevator, bidwell-type machine, shot & water blasting machine, paver, spreader, front end loader (3 yds. and over), vibratory hammer and vacuum truck

GROUP 3: Telehandler equipment, forklift, concrete pump & on-site concrete plant

GROUP 4: Fireman & oiler on cranes

GROUP 5: Oiler on crawler backhoe

GROUP 6: Bulldozer, skid steer loaders, bobcats, tractor, grader, scraper, combination loader backhoe, roller, front end loader (less than 3 yds.), street and mobile powered sweeper (3 yds. capacity), 8-ft. sweeper (minimum 65 hp)

GROUP 7: Well point installation crew

GROUP 8: Heater, concrete mixer, stone crusher, welding machine, generator for light plant, gas and electric driven pump & air compressor

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ENGI0057-005 12/01/2025

Rates                      Fringes

Power Equipment Operator  
(highway construction projects; water and sewerline projects which are incidental to highway construction projects; and bridge projects that do not span water)

GROUP 1.....	\$ 46.45	29.95
GROUP 2.....	\$ 44.45	29.95
GROUP 3.....	\$ 39.15	29.95
GROUP 4.....	\$ 25.75	29.95
GROUP 5.....	\$ 33.15	29.95
GROUP 6.....	\$ 39.73	29.95
GROUP 7.....	\$ 43.43	29.95
GROUP 8.....	\$ 38.70	29.95

a. FOOTNOTE: a. Any employee who works three days in the week in which a holiday falls shall be paid for the holiday.

b. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day & Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Cranes, pile drivers, lighters, boom trucks, hoists, derricks

GROUP 2: Digging machines, excavators, locomotives, John Henry's, directional drilling machines, cold planers, reclaimers, pavers, spreaders, graders, front-end loaders (3yds & over), vacuum truck, drill/boring machine operators, vermeer saw, water blaster, hydraulic-demolition robot, Ross Carriers, concrete pump operators, asphalt/material transfer machines, rotating telehandlers,

SPMT type equipment

GROUP 3: Wellpoint installation and drill/boring machine assistants

GROUP 4: Utility engineers

GROUP 5: Signal persons

GROUP 6: Oilers on cranes and deckhands

GROUP 7: Combination loader / backhoes, front-end loaders (less than 3 yds.), forklift, bulldozers, scrapers, boats, rollers, skid steer loaders (regardless of attachments), street sweepers, mechanics, welders, operators in materials yards, shops and garages

GROUP 8: Gas and electric drive heaters, concrete mixers, light plants, welding machines, pumps and compressors

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IRON0037-001 09/16/2025

	Rates	Fringes
IRONWORKER.....	\$ 43.03	33.53

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LABO0271-001 12/03/2023

BUILDING CONSTRUCTION

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 37.00	26.90
GROUP 2.....	\$ 37.00	26.90
GROUP 3.....	\$ 37.00	26.90
GROUP 4.....	\$ 37.00	26.90
GROUP 5.....	\$ 39.00	26.90

LABORERS CLASSIFICATIONS

GROUP 1: Laborer, Carpenter Tender, Mason Tender, Cement Finisher Tender, Scaffold Erector, Wrecking Laborer, Asbestos Removal [Non-Mechanical Systems]

GROUP 2: Asphalt Raker, Adzemen, Pipe Trench Bracer, Demolition Burner, Chain Saw Operator, Fence & Guard Rail Erector, Setter of Metal Forms for Roadways, Mortar Mixer, Pipelayer, Riprap & Dry Stonewall Builder, Highway Stone Spreader, Pneumatic Tool Operator, Wagon Drill Operator, Tree Trimmer, Barco-Type Jumping Tamper, Mechanical Grinder Operator

GROUP 3: Pre-Cast Floor & Roof Plank Erectors

GROUP 4: Air Track Operator, Hydraulic & Similar Self-Powered Drill, Block Paver, Rammer, Curb Setter, Powderman & Blaster

GROUP 5: Toxic Waste Remover

LABORERS CLASSIFICATIONS

GROUP 1: Laborer, Carpenter Tender, Mason Tender, Cement Finisher Tender, Scaffold Erector, Wrecking Laborer, Asbestos Removal [Non-Mechanical Systems]

GROUP 2: Asphalt Raker, Adzemen, Pipe Trench Bracer, Demolition Burner, Chain Saw Operator, Fence & Guard Rail Erector, Setter of Metal Forms for Roadways, Mortar Mixer, Pipelayer, Riprap & Dry Stonewall Builder, Highway Stone Spreader, Pneumatic Tool Operator, Wagon Drill Operator, Tree Trimmer, Barco-Type Jumping Tamper, Mechanical Grinder Operator

GROUP 3: Pre-Cast Floor & Roof Plank Erectors

GROUP 4: Air Track Operator, Hydraulic & Similar Self-Powered Drill, Block Paver, Rammer, Curb Setter, Powderman & Blaster

GROUP 5: Toxic Waste Remover

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LAB00271-002 11/27/2022

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
LABORER		
COMPRESSED AIR		
Group 1.....	\$ 55.40	24.15
Group 2.....	\$ 52.93	24.15
Group 3.....	\$ 42.45	24.15
FREE AIR		
Group 1.....	\$ 46.00	24.15
Group 2.....	\$ 45.00	24.15
Group 3.....	\$ 42.45	24.15
LABORER		
Group 1.....	\$ 33.05	24.05
Group 2.....	\$ 35.75	24.85
Group 3.....	\$ 36.50	24.85
Group 4.....	\$ 29.00	24.85
Group 5.....	\$ 37.50	24.85
OPEN AIR CAISSON, UNDERPINNING WORK AND BORING CREW		
Bottom Man.....	\$ 41.50	24.15
Top Man & Laborer.....	\$ 35.60	24.15
TEST BORING		
Driller.....	\$ 41.95	24.15
Laborer.....	\$ 41.95	24.15
LABORER CLASSIFICATIONS		

GROUP 1: Laborer; Carpenter tender; Cement finisher tender; Wrecking laborer; Asbestos removers [non-mechanical systems]; Plant laborer; Driller in quarries

GROUP 2: Adzeperson; Asphalt raker; Barcotype jumping tamper; Chain saw operators; Concrete and power buggy operator; Concrete saw operator; Demolition burner; Fence and guard rail erector; Highway stone spreader; Laser beam operator; Mechanical grinder operator; Mason tender; Mortar mixer; Pneumatic tool operator; Riprap and dry stonewall builder; Scaffold erector; Setter of metal forms for roadways; Wagon drill operator; Wood chipper operator; Pipelayer; Pipe trench bracer

GROUP 3: Air track drill operator; Hydraulic and similar powered drills; Brick paver; Block paver; Rammer and curb setter; Powderperson and blaster

GROUP 4: Flagger & signaler

GROUP 5: Toxic waste remover

LABORER - COMPRESSED AIR CLASSIFICATIONS

GROUP 1: Mucking machine operator, tunnel laborer, brake person, track person, miner, grout person, lock tender, gauge tender, miner: motor person & all others in compressed air

GROUP 2: Change house attendant, powder watchperson, top person on iron

GROUP 3: Hazardous waste work within the ""HOT"" zone

LABORER - FREE AIR CLASSIFICATIONS

GROUP 1: Grout person - pumps, brake person, track person, form mover & stripper (wood & steel), shaft laborer, laborer topside, outside motorperson, miner, conveyor operator, miner welder, heading motorperson, erecting operator, mucking machine operator, nozzle person, rodperson, safety miner, shaft & tunnel, steel & rodperson, mole nipper, concrete worker, form erector (wood, steel and all accessories), cement finisher (this type of work only), top signal person, bottom person (when heading is 50' from shaft), burner, shield operator and TBM operator

GROUP 2: Change house attendant, powder watchperson

GROUP 3: Hazardous waste work within the ""HOT"" zone

LABORER CLASSIFICATIONS

GROUP 1: Laborer; Carpenter tender; Cement finisher tender; Wrecking laborer; Asbestos removers [non-mechanical systems]; Plant laborer; Driller in quarries

GROUP 2: Adzeperson; Asphalt raker; Barcotype jumping tamper; Chain saw operators; Concrete and power buggy operator; Concrete saw operator; Demolition burner; Fence and guard rail erector; Highway stone spreader; Laser beam operator; Mechanical grinder operator; Mason tender; Mortar mixer; Pneumatic tool operator; Riprap and dry stonewall builder; Scaffold erector; Setter of metal forms for roadways; Wagon drill operator; Wood chipper operator; Pipelayer; Pipe trench bracer

GROUP 3: Air track drill operator; Hydraulic and similar powered drills; Brick paver; Block paver; Rammer and curb setter; Powderperson and blaster

GROUP 4: Flagger & signaler

GROUP 5: Toxic waste remover

LABORER - COMPRESSED AIR CLASSIFICATIONS

GROUP 1: Mucking machine operator, tunnel laborer, brake person, track person, miner, grout person, lock tender, gauge tender, miner: motor person & all others in compressed air

GROUP 2: Change house attendant, powder watchperson, top person on iron

GROUP 3: Hazardous waste work within the ""HOT"" zone

LABORER - FREE AIR CLASSIFICATIONS

GROUP 1: Grout person - pumps, brake person, track person, form mover & stripper (wood & steel), shaft laborer, laborer topside, outside motorperson, miner, conveyor operator, miner welder, heading motorperson, erecting operator, mucking machine operator, nozzle person, rodperson, safety miner, shaft & tunnel, steel & rodperson, mole nipper, concrete worker, form erector (wood, steel and all accessories), cement finisher (this type of work only), top signal person, bottom person (when heading is 50' from shaft), burner, shield operator and TBM operator

GROUP 2: Change house attendant, powder watchperson

GROUP 3: Hazardous waste work within the ""HOT"" zone

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PAIN0011-005 06/01/2025

	Rates	Fringes
PAINTER		
Brush and Roller.....	\$ 39.57	26.60
Epoxy, Tanks, Towers, Swing Stage & Structural Steel.....	\$ 41.57	26.60
Spray, Sand & Water Blasting.....	\$ 42.57	26.60
Taper.....	\$ 38.82	25.80
Wall Coverer.....	\$ 38.57	25.80

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PAIN0011-006 06/01/2024

	Rates	Fringes
GLAZIER.....	\$ 41.63	26.15

FOOTNOTES:

SWING STAGE: \$1.00 per hour additional.

PAID HOLIDAYS: Labor Day & Christmas Day.

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PAIN0011-011 06/01/2024

	Rates	Fringes
Painter (Bridge Work).....	\$ 57.85	26.40

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PAIN0035-008 06/01/2011

	Rates	Fringes
Sign Painter.....	\$ 24.79	13.72

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PLAS0040-001 01/01/2025

BUILDING CONSTRUCTION

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 44.75	29.10

FOOTNOTE: Cement Mason: Work on free swinging scaffolds under 3 planks width and which is 20 or more feet above ground and any offset structure: \$.30 per hour additional.

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 PLAS0040-002 01/01/2025

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 44.75	29.10

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 PLAS0040-003 01/01/2025

	Rates	Fringes
PLASTERER.....	\$ 45.52	29.43

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 PLUM0051-002 08/25/2025

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 54.34	34.50

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 \* ROOF0033-004 12/01/2025

	Rates	Fringes
ROOFER.....	\$ 47.49	31.44

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 SFRI0669-001 04/01/2025

	Rates	Fringes
SPRINKLER FITTER.....	\$ 53.76	33.44

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 SHEE0017-002 06/01/2025

	Rates	Fringes
Sheet Metal Worker.....	\$ 44.42	41.94

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 TEAM0251-001 05/01/2025

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
TRUCK DRIVER		
GROUP 1.....	\$ 31.86	34.51+a+b
GROUP 2.....	\$ 32.01	34.51+a+b
GROUP 3.....	\$ 32.06	34.51+a+b
GROUP 4.....	\$ 32.11	34.51+a+b
GROUP 5.....	\$ 32.21	34.51+a+b
GROUP 6.....	\$ 32.61	34.51+a+b
GROUP 7.....	\$ 32.81	34.51+a+b
GROUP 8.....	\$ 32.31	34.51+a+b
GROUP 9.....	\$ 32.56	34.51+a+b
GROUP 10.....	\$ 32.36	34.51+a+b

FOOTNOTES:

A. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, plus Presidents' Day, Columbus Day, Veteran's Day & V-J Day, providing the employee has worked at least one day in the calendar week in which the holiday falls.

B. Employee who has been on the payroll for 1 year or more but less than 5 years and has worked 150 Days during the last year of employment shall receive 1 week's paid vacation; 5 to 10 years - 2 weeks' paid vacation; 10 or more years - 3 week's paid vacation.

C. Employees on the seniority list shall be paid a one hundred dollar (\$100.00) bonus for every four hundred (400) hours worked, up to a maximum of five hundred dollars (\$500.00)

All drivers working on a defined hazard material job site shall be paid a premium of \$2.00 per hour over applicable rate.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Pick-up trucks, station wagons, & panel trucks

GROUP 2: Two-axle on low beds

GROUP 3: Two-axle dump truck

GROUP 4: Three-axle dump truck

GROUP 5: Four- and five-axle equipment

GROUP 6: Low-bed or boom trailer.

GROUP 7: Trailers when used on a double hook up (pulling 2 trailers)

GROUP 8: Special earth-moving equipment, under 35 tons

GROUP 9: Special earth-moving equipment, 35 tons or over

GROUP 10: Tractor trailer

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons

resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

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The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

#### Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

#### Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE:

UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

#### Survey Rate Identifiers

The "SU" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

#### State Adopted Rate Identifiers

The "SA" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

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#### WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to

davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210.

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END OF GENERAL DECISION"