NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING

ALBANY, NY
OCTOBER 14, 2026

AMENDMENT NO. 1
TO

CONTRACT TAS 26-28A
D215118
REHABILITATION OF THE
WASTEWATER TREATMENT PLANT
AT THE PORT BYRON SERVICE AREA
AT I-90, MILEPOST 310.0 EASTBOUND
IN THE SYRACUSE DIVISION
OF THE NEW YORK STATE THRUWAY
IN CAYUGA COUNTY

IN THE LETTING OF
OCTOBER 21, 2026

NOTE: This amendment shall be attached to and become a part of the Proposal for Contract TAS 26-28A.

NOTICE

For Electronic Bidders, the Project's amended EBSX file will automatically account for any necessary item changes (deletions, changes in quantities, or additions) that this Amendment may describe as being required regarding the project's estimated cost. Instructions to make physical changes to the Project Proposal's bid sheets are intended for "paper" Bidders who choose to submit bids via paper.

Questions and Answers for this project are available from the Authority's website, specifically at: http://www.thruway.ny.gov/netdata/contractors/documents/d215118_tas26-28a_questions-and-answers-10-14-2026.pdf. This document may be updated periodically without formal issuance of an Amendment. Prospective bidders are advised to revisit this link weekly and before proposals are due, for any possible additional questions and answers information.

ELECTRONIC BID FILE IN BIDX

1. The previous electronic bid bonding feature in BidX has been removed. Prospective bidders shall continue to acknowledge certifications and attach the required bid forms in BidX as was previously allowed.

PROPOSAL

2. **DELETE** the attached (Special Specifications) Table of Contents pages **20** and **21** and replace with the attached pages **20-A1** and **21-A1**. A new specification entry for Section 26 22 13 – LOW-VOLTAGE DISTRIBUTION TRANSFORMERS has been added. The reference to Bid Item 627.0046 25, Water and Wastewater Equipment and associated specifications as previously shown on page 20 have simply been moved to page **21-A1**.

3. **DELETE** pages **170** and **171** and **REPLACE** with the attached revised page **170-A1** and **171-A1**. The Special Specification Summary for Item 627.0026 25, Electrical has been updated. On page 170-A1 there is a revised entry for "E.". It is now for the new added Section 26 22 13 – LOW-VOLTAGE DISTRIBUTION TRANSFORMERS. Section 26 28 16 – ENCLOSED SWITCHES AND CIRCUIT BREAKERS will now be entry "F.". On page 171-A1 there is now a new entry for "K." for the required work to be performed along with furnishing and installing the transformer.

4. **ADD** pages **186A-A1** through **186E-A1**. The specifications for Section 26 22 13 – LOW-VOLTAGE DISTRIBUTION TRANSFORMERS is now available. This new specification comprises of 5 pages.

5. **DELETE** page **323** and **REPLACE** with the attached revised page **323-A1**. In Specification Section 46 53 24, Trickling Filter Media and Distribution System, and entry 1.04A Quality Assurance, the minimum years of Manufacturer experience has been reduced to 5 years (from 10 years) of experience supplying trickling filter media systems for municipal wastewater treatment facilities.

6. **DELETE** pages **379** through **381** of the Agreement and replace with the attached pages **379-A1** through **381-A1**. In **ARTICLE 17. SUBCONTRACTING** of the Agreement, a new paragraph has been added. The new second paragraph now reads: "Contractor shall be responsible for obtaining and timely submitting, or causing to be submitted, all documentation and information required by the Authority concerning any proposed subcontractors. The Authority may withhold award of the Contract or approval of any subcontractor until all such requirements have been satisfactorily fulfilled.". The remainder of Article 17 is carried into the next page (380-A1), but nothing else in Article 17 has been changed. Similarly, the last sentence of the second paragraph of Article 18 entry B. carries over into the next page (381-A1), but otherwise, Article 18 remains unchanged.

PLANS

7. **DELETE** Drawing Number GN-1, sheet 2 and **REPLACE** with the attached revised Drawing Number GN-1, sheet 2-A1. Notes have been added to the Index of Sheets to identify the addition of new sheets that were inadvertently left out of the original set of drawings and provide a list of superseded sheets that now contain revisions as further described below for each respective plan sheet to be replaced. Please be advised that the total number of plan sheets as of this Amendment's issuance is **46** plan sheets.

8. **DELETE** Drawing Number GN-2, sheet 3 and **REPLACE** with the attached revised Drawing Number GN-2 Sheet 3-A1. WASTEWATER DISPOSAL Note 4. has been deleted.

9. **DELELE** Drawing Number GN-3, sheet 4 and **REPLACE** with the attached revised Drawing Number GN-3 Sheet 4-A1. In the PORT BYRON WWTP 2024 – TO DATE MONTHLY FLOWS Table, the AVG. FLOW (MGD) value for AUG-25 has been corrected to 0.002 MGD. The previous entry was a typographical error.

10. **DELETE** Drawing Number M-10, sheet 17 of 44 and **REPLACE** with the attached revised Drawing Number M-10. Heat tracing and insulation for the trickling filter feed and receiving piping has been added to both the Control Building Proposed Section (A) and Section (B) details. New Notes: 5. has been added.

11. **DELETE** Drawing Number M-13, sheet 20 and **REPLACE** with the attached revised Drawing Number M-13, sheet 20-A1. Heat tracing and insulation for the trickling filter feed and receiving piping has been added to the Trickling Filter Access Stairs Plan View and Trickling Filter Access Stair Section 'B-B' details. New Notes: 1. has been added.

12. **DELETE** Drawing Number M-17, sheet 24 and **REPLACE** with the attached revised Drawing Number M-17, sheet 24-A1. The Section 'A-A' and 'B-B' details have changed. The information provided in Notes: 1 has also changed.

13. **DELETE** Drawing Number M-23, sheet 30 and **REPLACE** with the attached revised Drawing Number M-23, sheet 30-A1. The invert and elevation of the 4" DIP Sludge Piping is now shown in the Section (A) Equalization Tank Proposed Profile detail.

14. **ADD** new Drawing Number SD-5, sheet 34A-A1. This drawing contains pipe heat tracing and insulation details related information that is required.

15. **DELETE** Drawing Number E-2, sheet 36 and **REPLACE** with the attached revised Drawing Number E-2, sheet 36-A1. The Trickler Filter Improvement Plan detail has been revised. The callout to L1 on the upper left side of the detail has changed. Previous callouts regarding the manual switch for exhaust fan and lighting, receptable, and seals have been changed where previously shown. It is now being shown as proposed work within an enclosed (dashed) box and a callout to E2. E2 is a new Trickler Filter Elevation Plan with additional details specific to the manual switches, receptable and weatherproof seals. This new detail has been added just left of the Electrical Keynotes. Electrical Keynotes one through four have changed and new notes ten and eleven have been added.

16. **DELETE** Drawing Number E-3, sheet 38 and **REPLACE** with the attached revised Drawing Number E-3, sheet 38-A1. The Control Building Basement Proposed Improvements Plan detail has been changed. Additional work is now called out for at the middle to bottom right corner of the (Control Building Basement) detail. A new Note 4 has been added to the Electrical Keynotes.

17. **ADD** new Drawing Number E-5, sheet 39A-A1. This new drawing provides a diagram, details and notes associated with the proposed transformer. The specifications for Section 26 22 13 – LOW-VOLTAGE DISTRIBUTION TRANSFORMERS have been provided as previously mentioned above.

18. **DELETE** Drawing Number FA101, sheet 42 and **REPLACE** with the attached revised Drawing Number FA-101, sheet 42-A1. The scale of the drawing has been reduced; the illustration has been named Fire Alarm Plan – Overall, and a Keyed Notes has been added to the upper right corner of the drawing.

19. **DELETE** Drawing Number FA502, sheet 44 and **REPLACE** with the attached revised Drawing Number FA-502, sheet 44-A1. In the Fire Alarm Riser Diagram, "IDC Class A" has been added within the upper left circuit and "NAC Class A" has been added within the upper right circuit leading into and out of the Fire Alarm Control Panel. A new Detail 3 "Fire Alarm Plan – Basement" of the Process Control Building has been added to the drawing.

The Bidder **MUST** complete Page **425** of the Proposal acknowledging receipt of this amendment. If the Bidder fails to complete the "Amendment Acknowledgement" sheet, his bid could be declared informal thereby delaying award of the contract.

PLEASE BE GOVERNED ACCORDINGLY WHEN SUBMITTING BIDS.

Brent E. Howard, P.E.
Chief Engineer

BID ITEM 627.0023 25– HVAC

23 34 23 DIRECT DRIVE SIDE WALL MOUNTED PROPELLER FAN

BID ITEM 627.0026 25 – ELECTRICAL

26 05 19 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

26 05 26 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

26 05 33 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS

26 22 13 LOW-VOLTAGE DISTRIBUTION TRANSFORMERS

26 28 16 ENCLOSED SWITCHES AND CIRCUIT BREAKERS

BID ITEM 627.0028 25 – ELECTRONIC SAFETY AND SECURITY

28 46 00 CONVENTIONAL FIRE ALARM AND DETECTION SYSTEM

BID ITEM 627.0031 25 – EARTHWORK

31 20 00 EARTH MOVING

31 23 16 EXCAVATION

31 25 00 EROSION AND SEDIMENTATION CONTROLS

31 50 00 EXCAVATION SUPPORT AND PROTECTION

BID ITEM 627.0032 25 – EXTERIOR IMPROVEMENTS

32 92 00 TURF AND GRASSES

BID ITEM 627.0033 25 – UTILITIES

33 01 30 OPERATION AND MAINTENANCE OF SEWER UTILITIES

33 01 30.72 CURED-IN-PLACE PIPE LINING (CIPP)

33 31 22 TESTING OF SANITARY SEWER MAINS AND MANHOLES

33 31 23 SANITARY SEWER FORCE MAIN PIPING

33 34 56 DOSING CHAMBERS

BID ITEM 627.0043 25 – PROCESS GAS AND LIQUID HANDLING, PURIFICATION, & STORAGE EQUIPMENT

43 11 33 ROTARY POSTIVE DISPLACEMENT BLOWER

43 20 00 WASTEWATER PUMPS

BID ITEM 627.0046 25 – WATER AND WASTEWATER EQUIPMENT

46 43 11 CHAIN-AND-FLIGHT CLARIFIER EQUIPMENT

46 51 21 COARSE BUBBLE DIFFUSERS

46 53 24 TRICKLING FILTER MEDIA AND DISTRIBUTION SYSTEM

BID ITEM 697.03 – FIELD CHANGE PAYMENT

BID ITEM 699.04 25 – MOBILIZATION

END OF TABLE OF CONTENTS

ITEM 627.0026 25 **ELECTRICAL**

6. SPECIFICATION SUMMARY

6.01 This Item includes the following specifications:

A. Section 26 05 19 – LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

B. Section 26 05 26 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

C. Section 26 05 33 – RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

D. Section 26 05 53 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

E. Section 26 22 13 – LOW VOLTAGE DISTRIBUTION TRANSFORMERS

F. Section 26 28 16 – ENCLOSED SWITCHES AND CIRCUIT BREAKERS

6.02 This item shall include, but not be limited to, the following:

A. Furnish and install enclosed non-fusible switches and molded-case circuit breakers, complete with properly rated enclosures, accessories, labeling, and field testing in accordance with NFPA and NEMA requirements.

B. Provide low-voltage copper conductors and cables for feeders and branch circuits, including pulling, terminating, splicing, and testing in approved raceways with proper color-coding and identification.

C. Install complete grounding and bonding systems, including grounding conductors, bus bars, connectors, and exothermic welds, to ensure electrical safety and code compliance.

D. Furnish and install metallic and nonmetallic raceways, fittings, wireways, boxes, cabinets, and enclosures suitable for indoor, outdoor, damp, and hazardous locations as indicated.

E. Coordinate raceway layouts with building structure and equipment, including supports, bends, terminations, sealing fittings, and protection against moisture, vibration, and physical damage.

F. Provide complete identification for electrical systems, including conductor color-coding, underground warning tape, engraved equipment labels, and safety signage.

G. Perform required inspections, adjustments, and acceptance testing of electrical equipment, conductors, and grounding systems in accordance with NETA and NFPA standards.

H. Submit product data, shop drawings, coordination information, and operation and maintenance documentation for all electrical components and systems installed.

ITEM 627.0026 25 **ELECTRICAL**

I. Provide and install sleeves and sleeve seals at wall and floor penetrations for electrical raceways, ensuring watertight and code-compliant transitions through building assemblies.

J. Select and install enclosures and raceway systems with appropriate environmental and hazardous-location ratings (e.g., NEMA Types 1, 4X, 7/9) based on indoor, outdoor, wet, or classified area conditions

K. Furnish and install transformer, complete with properly rated enclosure, concrete pad, accessories, labeling, and field testing in accordance with NFPA and NEMA requirements.

SECTION 26 22 13

LOW-VOLTAGE DISTRIBUTION TRANSFORMERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Distribution, dry-type transformers with nominal primary and secondary rating of 600 V and less, with capacities up to 1500 kVA.

1.2 ACTION SUBMITTALS

A. Product Data:

1. For each type of product.

B. Shop Drawings:

1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of field connections.
2. Include diagrams for power, signal, and control wiring.

1.3 INFORMATIONAL SUBMITTALS

A. Manufacturers' Published Instructions: Record copy of official installation and testing instructions issued to Installer by manufacturer for the following:

1. Transformer working clearances, anchoring, torque values, and insulation-resistance testing.

B. Source quality-control reports.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Provide equipment from one of the listed approved manufacturers below:
1. Schneider Electric
2. Eaton

3. Maddox
4. ABB

2.2 GENERAL TRANSFORMER REQUIREMENTS

A. Description: Factory-assembled and -tested, air-cooled units for 60 Hz service.

B. Electrical Components, Devices, and Accessories: Listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.

C. Transformers Rated 15 kVA and Larger:

1. Comply with 10 CFR 431 (DOE 2016) efficiency levels.
2. Marked as compliant with DOE 2016 efficiency levels by qualified electrical testing laboratory recognized by authorities having jurisdiction.

2.3 DISTRIBUTION TRANSFORMERS

A. Comply with NFPA 70, and list and label as complying with UL 1561.

B. Cores: Electrical grade, non-aging silicon steel with high permeability and low hysteresis losses.

1. One leg per phase.

C. Coils: Continuous windings without splices except for taps.

1. Coil Material: Aluminum or Copper; ensure the ampacity of the conductors matches the requirements of the design.
2. Internal Coil Connections: Brazed or pressure type.
3. Terminal Connections: Bolted

D. Encapsulation: Transformers smaller than 30 kVA must have core and coils completely resin encapsulated.

E. Enclosure: Ventilated

1. Core and coil must be encapsulated within resin compound, using vacuum-pressure impregnation process, to seal out moisture and air.
2. KVA Ratings: Based on convection cooling only and not relying on auxiliary fans.
3. Wiring Compartment: Sized for conduit entry and wiring installation.
4. Environmental Protection:
   a. Outdoor: UL 50E, Type 3R

F. Taps for Transformers 25 kVA and Larger: Two 2.5 percent taps above and two 2.5 percent taps below normal full capacity

G. Insulation Class, Smaller Than 30 kVA: 180 deg C, UL-component-recognized insulation system with maximum of 115 deg C rise above 40 deg C ambient temperature.

H. Insulation Class, 30 kVA and Larger: 220 deg C, UL-component-recognized insulation system with maximum of 115 deg C rise above 40 deg C ambient temperature.

I. Grounding: Provide ground-bar kit or ground bar installed on inside of transformer enclosure.

2.4 IDENTIFICATION

A. Nameplates:

1. Engraved, laminated-acrylic or melamine plastic signs for distribution transformers, mounted with corrosion-resistant screws. Nameplates and label products are specified in Section 260553 "Identification for Electrical Systems."

B. Labels
1. A permanently affixed, weather resistant, UV resistant label must be added to the transformer enclosure in the field. The label should read 'Primary Disconnect Located in Travel Center Electrical Room 480VAC Panelboard"

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions for compliance with enclosure- and ambient-temperature requirements for transformers.

B. Verify that field measurements are as needed to maintain working clearances required by NFPA 70 and manufacturer's published instructions.

C. Examine walls, floors, roofs, and concrete bases for suitable mounting conditions where transformers will be installed.

D. Verify that ground connections are in place and requirements in Section 260526 "Grounding and Bonding for Electrical Systems" have been met. Maximum ground resistance must be 5 Ω at location of transformer.

E. Environment: Enclosures must be rated for environment in which they are located. Covers for UL 50E, Type 4X enclosures may not cause accessibility problems.

3.2 INSTALLATION

A. Construct concrete bases/pads and anchor floor-mounted transformers in accordance with manufacturer's published instructions.

1. Coordinate size and location of concrete bases with actual transformer provided. Cast anchor-bolt inserts into bases. Utilize a concrete mixture rated for at least 4000 psig. Concrete base must be at least 4” thick.

2. Concrete pad shall be structurally reinforced with steel wire mesh.

3. Concrete pad shall be supported by at least 6” of compacted Type 4 sub-base crushed stone. The crushed stone base shall extend at least 3” past the edge of the concrete pad

B. Secure transformer to concrete base in accordance with manufacturer's published instructions.

C. Secure covers to enclosure and tighten bolts to manufacturer-recommended torques to reduce noise generation.

D. Remove shipping bolts, blocking, and wedges.

3.3 CONNECTIONS

A. Ground equipment in accordance with Section 260526 "Grounding and Bonding for Electrical Systems."

B. Connect wiring in accordance with Section 260519 "Low-Voltage Electrical Power Conductors and Cables."

C. Tighten electrical connectors and terminals in accordance with manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A-486B.

D. Provide flexible connections at conduit and conductor terminations and supports to eliminate sound and vibration transmission to building structure.

3.4 FIELD QUALITY CONTROL

A. Tests and Inspections:

1. Small (Up to 167 kVA Single-Phase or 500 kVA Three-Phase) Dry-Type Transformer Field Tests:

a. Visual and Mechanical Inspection.

1) Inspect physical and mechanical condition.
2) Inspect anchorage, alignment, and grounding.
3) Verify that resilient mounts are free and that shipping brackets have been removed.
4) Verify that unit is clean.

5) Perform specific inspections and mechanical tests recommended by manufacturer.
6) Verify that as-left tap connections are as specified.
7) Verify presence of surge arresters and that their ratings are as specified.

b. Electrical Tests:

1) Measure resistance at windings, taps, and bolted connections.
2) Perform insulation-resistance tests, winding-to-winding, and windings-to-ground. Apply voltage in accordance with manufacturer's published data.
3) Perform turns-ratio tests at tap positions. Test results may not deviate by more than one-half percent from either adjacent coils or calculated ratio. If test fails, replace transformer at no cost to owner.
4) Verify correct secondary voltage, phase-to-phase and phase-to-neutral, after energization and prior to loading.

B. Test Labeling: On completion of satisfactory testing of units, attach dated and signed "Satisfactory Test" label to tested components.

C. Nonconforming Work:

1. Transformer will be considered defective if it does not pass tests and inspections.
2. Remove and replace units that do not pass tests or inspections and retest as specified above.

D. Assemble and submit test and inspection reports.

3.5 CLEANING

A. Vacuum dirt and debris; do not use compressed air to assist in cleaning.

END OF SECTION 262213

SECTION 46 53 24

TRICKLING FILTER MEDIA AND DISTRIBUTION SYSTEM

PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Structured plastic trickling filter media.
   2. Media support system and underdrain interface.
   3. Accessories required for a complete and operable trickling filter installation.

B. Related Sections:
   1. Section 03 30 00 – Cast-in-Place Concrete.
   2. Section 07 41 33 – Aluminum Metal Roof Panels.
   3. Section 43 20 00 – Wastewater Pumps.

1.02 REFERENCES

A. Recommended Standards for Wastewater Facilities (Ten States Standards).

B. ASTM D1785 – PVC Pipe.

C. ASTM A240 – Stainless Steel Plate, Sheet, and Strip.

D. ASTM D695 – Rigid Plastics Compression Properties.

1.03 SUBMITTALS

A. Product Data:
   1. Media geometry and configuration.
   2. Specific surface area.
   3. Void ratio.
   4. Maximum hydraulic and organic loading rates.
   5. Chemical and ultraviolet resistance data.

B. Shop Drawings:
   1. Media layout and elevation.
   2. Support system configuration and anchorage.
   3. Relationship to rotary distributor and influent piping.

C. Operation and Maintenance Manuals.

1.04 QUALITY ASSURANCE

A. Manufacturer shall have minimum 5 years experience supplying trickling filter media systems for municipal wastewater treatment facilities.

includes the Authority's right to terminate this Agreement at any time in the event the Authority finds that Contractor is non-responsible or has failed to accurately disclose vendor responsibility information.

ARTICLE 16. WRITTEN NOTICES.

All notices permitted or required hereunder shall be in writing and transmitted by either:

a. certified or registered United States mail, return receipt requested;
b. facsimile transmission;
c. personal delivery;
d. expedited delivery service; or
e. e-mail.

Such notices shall be addressed to the individuals or titles named in the contract documents, or which are designated by the Contractor or the Authority at the pre-construction meeting, or which are designated by the Authority or the Contractor from time to time during the course of the Contract pursuant to the requirements herein.

Any such notice shall be deemed to have been given either at the time of personal delivery or, in the case of expedited delivery service or certified or registered United States mail, as of the date of first attempted delivery at the address and in the manner provided herein, or in the case of facsimile transmission or email, upon receipt.

The parties may, from time to time, specify a new or different address in the United States as their address for the purpose of receiving notice under this Agreement by giving fifteen (15) days written notice to the other party sent in accordance herewith. The parties agree to mutually designate individuals as their respective representatives for the purposes of receiving notices under this Agreement. Additional individuals may be designated in writing by the parties for purposes of implementation and administration/billing, resolving issues and problems and/or for dispute resolution.

ARTICLE 17. SUBCONTRACTING.

Contractor agrees not to subcontract any of its services without the prior written approval of the Authority.

Contractor shall be responsible for obtaining and timely submitting, or causing to be submitted, all documentation and information required by the Authority concerning any proposed subcontractor. The Authority may withhold award of the Contract or approval of any subcontractor until all such requirements have been satisfactorily fulfilled.

Contractor retains ultimate responsibility for all services performed under the Agreement and shall pay any subcontractors promptly for work performed under this Agreement. Contractor shall be fully responsible to the Authority for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, just as Contractor is fully responsible to the Authority for the acts and omissions of persons directly employed by Contractor.

All subcontracts shall be in writing and shall contain provisions, which are functionally identical to, and consistent with, the provisions of this Agreement including, but not limited to, the body of this Agreement, Appendix A – Standard Clauses for New York State Thruway Authority Contracts, and the Contract Documents. Unless expressly waived in writing by the Authority, all subcontracts between the Contractor and its subcontractors shall expressly

name the Authority, as the sole intended third party beneficiary of such subcontract. The Authority reserves the right to review and approve or reject any subcontract, as well as any amendment to said subcontract(s), and this right shall not make the Authority a party to any subcontract or create any right, claim, or interest in the subcontractor or proposed subcontractor against the Authority. The Authority shall have the right to withdraw its consent to a subcontractor if, at the sole discretion of the Authority, it appears that the subcontract will delay, prevent, or otherwise impair Contractor's performance of services under this Agreement. Upon request, Contractor shall furnish to the Authority copies of all Contracts between Contractor and its subcontractors used to perform services for this Agreement.

The Authority reserves the right, at any time during the term of the Agreement, to verify that the written subcontract between Contractor and its subcontractors is in compliance with all of the provisions of this Article 17 and any subcontract provisions contained in this Agreement.

Contractor shall give the Authority immediate notice in writing of the initiation of any legal action or suit which relates in any way to a subcontract with a subcontractor or which may affect the performance of the Contractor's duties under the Agreement. Any subcontract shall not relieve the Contractor in any way of any responsibility, duty and/or obligation of the Agreement.

If at any time during performance under this Agreement total compensation to a subcontractor exceeds or is expected to exceed $100,000, said subcontractor shall be required to electronically submit and certify a new Vendor Responsibility Questionnaire directly to the Office of the New York State Comptroller, or submit and certify all necessary updated information thereof.

Nothing contained in this Agreement shall create any contractual relationship between a subcontractor and the Authority.

ARTICLE 18. CONFIDENTIALITY AND NON-DISCLOSURE.

A. "Confidential Information" means any information not generally known to the public, or that the Authority claims is confidential, whether oral, written, or electronic, that the Authority discloses, directly or indirectly, through any means of communication, to Contractor. Confidential Information includes, but is not limited to, operational and infrastructure information relating to: bid documents, plans, drawings, specifications, reports, product information and data; business and security processes and procedures; personnel and organizational data; financial statements; information system IP addresses, passwords, security controls, architectures and designs; and such other data, information and images that the Authority deems confidential.

B. Confidential Information does not include information which, at the time of the Authority's disclosure to Contractor: (1) is already in the public domain or becomes publicly known through no act of Contractor; or (2) is already known by Contractor free of any confidentiality obligations.

   If Contractor wants to disclose Confidential Information, it shall notify the Authority and specify the Confidential Information it wants to disclose. Contractor may only disclose such Confidential Information if the Authority approves such disclosure in writing, subject to such other terms and conditions as the Authority may require. Such approval, if given,

shall only apply to the particular request and the specific Confidential Information for which it is given.

If Contractor is required to disclose or make available, directly or indirectly, Confidential Information pursuant to statute, court or administrative order, subpoena, contractual obligation, or otherwise by law, Contractor shall: (1) notify the Authority that it has received such legal demand as soon as practicable, but in all events prior to any disclosure; (2) permit the Authority to take the steps it deems necessary and appropriate to protect the Confidential Information from disclosure; (3) cooperate to the fullest extent possible under the law with the Authority's efforts to protect the Confidential Information from disclosure; and (4) disclose only such Confidential Information, and only such portions thereof, as is required to satisfy the legal demand, and limit any such disclosure of Confidential Information to the fullest extent permissible under the law.

C. Contractor may use Confidential Information solely for the purposes of providing services to the Authority pursuant to this Agreement. Contractor may make copies of Confidential Information but only to the extent necessary for the disclosures and uses permitted by this Agreement. Contractor will make commercially reasonable efforts to ensure that any copy of Confidential Information that is made is marked to show that it is or contains Confidential Information. Contractor may share Confidential Information with third parties: (i) that are required for Contractor's provision of services to the Authority pursuant to this Agreement (e.g., Contractors and subcontractors); and (ii) that agree in writing to be bound by the confidentiality provisions of this Agreement; however, Contractor may share only that Confidential Information that is necessary to the third party's contribution to Contractor's provision of services to the Authority pursuant to this Agreement and Contractor must first obtain the Authority's prior written consent.

   The Authority's disclosure of Confidential Information to Contractor shall not convey to Contractor any right, title, or interest in or to such Confidential Information, and this Agreement does not transfer ownership of Confidential Information or grant a license thereto. The Authority shall retain all right, title, and interest in and to all such Confidential Information at all times.

D. Contractor shall hold Confidential Information confidential to the maximum extent permitted by law. Contractor shall safeguard Confidential Information with at least the same level of care and security that Contractor uses to maintain and protect from disclosure its own confidential information, using all reasonable and necessary security measures, devices, and procedures that Contractor uses to maintain its own confidential information, but in all events with not less than reasonable care.

   Contractor shall take reasonable steps to prevent unauthorized access to, use of, or disclosure of Confidential Information, including without limitation, by protecting its passwords and other log-in information. Contractor shall notify the Authority immediately of any known or suspected misuse or misappropriation of Confidential Information and shall use its best efforts to stop said misuse or misappropriation.

E. Upon written request of the Authority, or upon expiration or termination of this Agreement, Contractor shall return all Confidential Information to the Authority, or certify in writing that it has been destroyed and no copies exist.

F. Contractor agrees that breach of this Article 18 would cause the Authority irreparable

PW:/

CHECKED BY: JBA / RAP

DRAFTED BY: SMB /

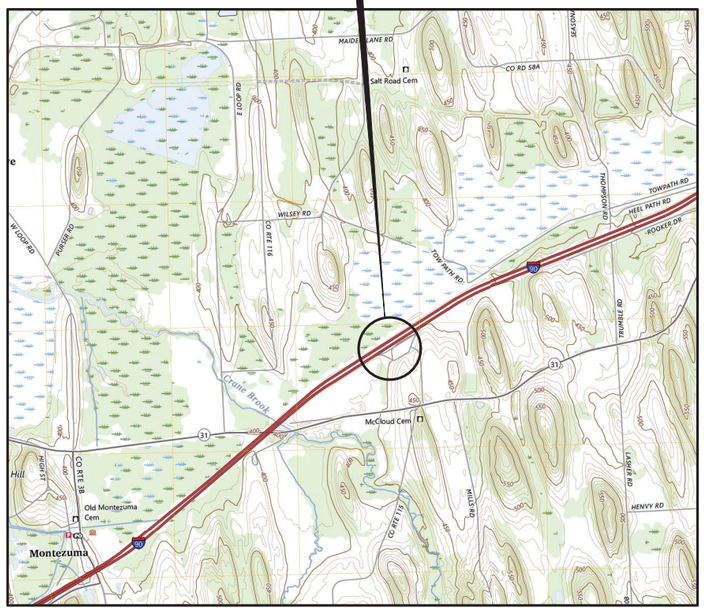
DESIGNED BY: ERE / SMB

DESIGN SUPERVISOR: JBA

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PORT BYRON SERVICE AREA
MILEPOST 310.0



LOCATION MAP
SCALE 1"=4,000'

PORT BYRON WWTP SPDES EFFLUENT LIMITATIONS

EFFLUENT PARAMETER	30 DAY ARITHMETIC MEAN	7 DAY ARITHMETIC MEAN	DAILY MAXIMUM VALUE
FLOW (GPD)	40,000	-	-
BIOCHEMICAL OXYGEN DEMAND, 5 DAY (BOD_5) (mg/L)	-	-	10
BIOCHEMICAL OXYGEN DEMAND, 5 DAY (BOD_5) (LBS/DAY)	-	-	3.3
TOTAL SUSPENDED SOLIDS (TSS) (mg/L)	30	45	-
TOTAL SUSPENDED SOLIDS (TSS) (LBS/DAY)	10	15	-
SETTLEABLE SOLIDS (ML/L)	-	-	0.30
pH (DAILY MAX - DAILY MIN)	6.0 - 9.0		

LEGEND

EXISTING		PROPOSED
12+00 PI 13+00	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	12+00 13+00
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EDGE OF PAVEMENT	
	SIDEWALK	
X X	FENCES	X X
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	STORM INLET	
D	STORM MANHOLE	D
S	SANITARY MANHOLE	S
	FLARED END SECTION	
	HEADWALL	
	HYDRANT	
	POLE MOUNTED LIGHT	
OHW	OVER HEAD WIRE	OHW
W	WATER MAIN	W
G	GAS MAIN	G
T	TELEPHONE CONDUIT	T
E	ELECTRIC CONDUIT	E
S	SANITARY PIPE	
	STORM PIPE	
FM	SANITARY FORCE MAIN	FM
	CHECK VALVE	
	GATE VALVE	
	PLUG VALVE	
	BUTTERFLY VALVE	
	TO BE DEMOLISHED	

THIS SHEET SUPERSEDES SHEET 2

ALTERED ON:

AFFIXED ON: 9/29/26

SIGNATURE:
STAMP:

SIGNATURE:
STAMP:

STATE OF NEW YORK
JOSEPH B AWALD
089707
LICENSED PROFESSIONAL ENGINEER

NOTES:

1.) THE FOLLOWING SHEETS WERE ADDED AS PART OF AMENDMENT 1
SD-5 (SHEET 34A-A1)
E-5 (SHEET 39A-A1)

2.) THE FOLLOWING SHEETS WERE REPLACED AS PART OF AMENDMENT 1
GN-1 (SHEET 2 OF 44) SUPERSEDED BY GN-1 (2-A1 OF 44)
GN-2 (SHEET 3 OF 44) SUPERSEDED BY GN-2 (3-A1 OF 44)
GN-3 (SHEET 4 OF 44) SUPERSEDED BY GN-3 (4-A1 OF 44)
M-10 (SHEET 17 OF 44) SUPERSEDED BY M-10 (17-A1 OF 44)
M-13 (SHEET 20 OF 44) SUPERSEDED BY M-13 (20-A1 OF 44)
M-17 (SHEET 24 OF 44) SUPERSEDED BY M-17 (24-A1 OF 44)
M-23 (SHEET 30 OF 44) SUPERSEDED BY M-23 (30-A1 OF 44)
E-2 (SHEET 36 OF 44) SUPERSEDED BY M-10 (36-A1 OF 44)
E-3 (SHEET 38 OF 44) SUPERSEDED BY M-10 (38-A1 OF 44)
FA-101 (SHEET 42 OF 44) SUPERSEDED BY FA-101 (SHEET 42-A1 OF 44)
FA-502 (SHEET 44 OF 44) SUPERSEDED BY FA-502 (SHEET 44-A1 OF 44)

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REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

Colliers Engineering & Design

TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: INDEX OF SHEETS, LOCATION MAP, SPDES PARAMETERS AND LEGEND	DRAWING NUMBER: GN-1

PW:/

DESIGN SUPERVISOR: JBA

DESIGNED BY: ERE / SMB

DRAFTED BY: SMB /

CHECKED BY: JBA / RAP

CHECKED BY: JBA / RAP

GENERAL NOTES

THIS SHEET SUPERSEDES SHEET 3

3-A1 / 44

REFERENCE NOTES

1. CONSTRUCTION DRAWINGS ARE BASED ON TOPOGRAPHIC, PROPERTY AND UTILITY SURVEY PREPARED BY COLLIERS ENGINEERING & DESIGN ON 7/15/2025 AND BY HISTORICAL AND RECORD DRAWINGS PROVIDED BY THRUWAY AUTHORITY.
2. THE LOCATION, NATURE AND ALIGNMENT OF UNDERGROUND UTILITIES ARE BASED ON HISTORIC AND RECORD DRAWINGS, AND UTILITY EVIDENCE VISIBLE AT THE GROUND SURFACE AND ARE CONSIDERED TO BE SCHEMATIC ONLY.
3. THE SURVEY INFORMATION DOES NOT CLAIM TO SHOW ALL UNDERGROUND UTILITIES. OTHERS MAY EXIST IN THE WORK AREA. IDENTIFICATION OF ALL UTILITIES IN THE WORK AREA SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WASTEWATER DISPOSAL

1. INFLUENT WASTEWATER SHALL BE TEMPORARILY STORED WITHIN THE EXISTING SLUDGE HOLDING TANK WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND / OR OFFLINE. SEE PROJECT DESCRIPTION ON FOLLOWING SHEET FOR DETAILS ON TEMPORARY WASTEWATER STORAGE.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT INFLUENT WASTEWATER SHALL BE HAULED OFF BY A LICENSED HAULER TO ANOTHER REGULATED WASTEWATER TREATMENT PLANT WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND / OR ARE OFFLINE. RESPONSIBILITY, INCLUDING BUT NOT LIMITED TO, ALL COST INCURRED FOR STORAGE, TRANSFER, HAULING AND DISPOSAL OF THE WASTEWATER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. COORDINATE CONSTRUCTION OPERATIONS WITH WASTEWATER HAULING TO ENSURE SUFFICIENT STORAGE CAPACITY IS MAINTAINED WITHIN THE EXISTING SLUDGE HOLDING TANK.

COORDINATION

1. DURING THE CONSTRUCTION PERIOD COORDINATE ACTIVITIES, INCLUDING USE OF THE SITE, TO MINIMIZE INTERFERENCE WITH THE ONGOING THRUWAY AND TRAVEL PLAZA OPERATIONS. CONTRACTOR'S ACTIVITIES ARE SUBJECT TO PRIOR APPROVAL OF THE THRUWAY AUTHORITY.

LAYOUT

1. THE THRUWAY AUTHORITY WILL DETERMINE LOCATIONS OF CONTRACTOR STAGING AND LAYDOWN AREAS, THE SITE HAS LIMITED SPACE FOR PARKING, MATERIAL AND EQUIPMENT. AT PROJECT COMPLETION, RESTORE ANY AREAS DISTURBED BY STAGING, PARKING, OR OTHER CONSTRUCTION ACTIVITIES TO THEIR ORIGINAL CONDITION.
2. ESTABLISH BENCHMARKS FOR SURVEY CONTROL AND MAINTAIN FOR THE DURATION OF CONSTRUCTION ACTIVITIES. PROTECT AND MAINTAIN BENCHMARKS DURING CONSTRUCTION.

CONFINED ENTRY NOTE:

1. CONTRACTOR IS REQUIRED TO SUBMIT A LIST OF VESSELS REQUIRING CONFINED ENTRY DURING CONSTRUCTION TO THE THRUWAY AUTHORITY'S CODES COMPLIANCE OFFICER.
2. CONTRACTOR SHALL FOLLOW ALL PROPER OSHA REGULATIONS FOR ENTRANCE INTO CONFINED SPACES.

EXISTING CONDITIONS

1. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. IMMEDIATELY NOTIFY THE THRUWAY AUTHORITY OF ANY DISCREPANCIES.
2. CONTRACTOR IS ADVISED OF THE PRESENCE OF METHANE, PROPANE, AND OTHER POTENTIALLY FLAMMABLE GASES AT THE SITE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO CHECK FOR CONCENTRATIONS OF FLAMMABLE VAPORS / GASES BEFORE CONDUCTING ANY ACTIVITY (WELDING, CUTTING, TORCHING, ETC.) THAT COULD CAUSE IGNITION OF THOSE GASES.
3. PROTECT FROM DAMAGE ALL EXISTING FEATURES NOT INDICATED OR REQUIRED TO BE REMOVED FOR THE WORK.
4. REPAIR ITEMS THAT ARE TO REMAIN IF DAMAGED DURING THE PERFORMANCE OF THE WORK. REPAIR OR REPLACE TO THEIR ORIGINAL CONDITION AS DETERMINED BY THE THRUWAY AUTHORITY, OR REPLACE WITH NEW IN-KIND.

EXISTING UTILITIES

1. THE LOCATION OF UTILITIES INDICATED ON THE SITE SURVEY AND DRAWINGS ARE APPROXIMATE ONLY. ACCURATELY LOCATE SUBSURFACE UTILITIES BEFORE EXCAVATING.
2. PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES, CONTACT UDIG-NY AT 1-800-962-7962 OR 811 FOR INFORMATION ON EXISTING UNDERGROUND UTILITIES.
3. PERFORM EXCAVATION IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
4. SLOPE OR SUPPORT THE SIDES OF ALL EXCAVATIONS AS REQUIRED BY LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
5. EXISTING WATER SUPPLY PIPING AND APPURTENANCES WHICH ARE CUT, TAPPED, OR OTHERWISE DISTURBED DURING CONSTRUCTION SHALL BE PROTECTED FROM CONTAMINATION AND DISINFECTED AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

SPOILS

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT NO SPOIL AREA IS AVAILABLE FOR THIS CONTRACT WITHIN THE THRUWAY'S RIGHT-OF -WAY. THEREFORE, ALL SPOIL MATERIAL (INCLUDING WASTEWATER, WASH WATERS, CONCRETE, METAL, SOIL, AND SLUDGE) REMOVED FROM THE JOB SITE SHALL BE DISPOSED OF, BY THE CONTRACTOR, OFF OF THE THRUWAY'S PROPERTY. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS THAT APPLY TO THE OFF-STE AREA CHOSEN FOR THIS SPOIL MATERIAL. ALL COST ASSOCIATED WITH THE REMOVAL AND LAWFUL DISPOSAL OF ALL SPOIL MATERIAL OFF THRUWAY PROPERTY SHALL BE INCLUDED IN THE BID.

DEMOLITION

1. CONDUCT REMOVAL OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT EXISTING FEATURES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AND AUTHORIZED VEHICLES AROUND THE WORK AREA.
2. PROVIDE CONSTRUCTION FENCES, BARRICADES OR OTHER SUITABLE DEVICES AS DIRECTED BY THE THRUWAY AUTHORITY TO PREVENT DAMAGE BY VEHICLES AND UNAUTHORIZED ENTRY INTO WORK, CONSTRUCTION STAGING AND EQUIPMENT STORAGE AREAS.
3. PROVIDE ALL REMOVALS INCIDENTAL TO AND NECESSARY TO PROVIDE THE WORK OF THIS CONTRACT AND LEGALLY DISPOSE OF OFF-SITE. REMOVE EXISTING FEATURES AND UNUSED EARTH MATERIALS INCLUDING EXCESS TOPSOIL IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED BY THE THRUWAY AUTHORITY.
4. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS AND TRASH OFF-SITE. DO NOT ALLOW DEBRIS TO ACCUMULATE ON-SITE. THERE SHALL BE NO BURIAL OF RUBBLE OR REUSE AS BACKFILL.
5. UTILIZE SAW-CUTS IN AREAS WHERE PAVEMENT IS TO BE REMOVED FOR INSTALLATION OF IMPROVEMENTS AND WHERE NEW PAVEMENT IS JOINED WITH EXISTING. TREAT ALL JOINTS BETWEEN NEW AND EXISTING ASPHALT PAVEMENT WITH AN ASPHALT EMULSION.
6. REMOVE EXISTING TREES AND VEGETATION AS REQUIRED TO INSTALL IMPROVEMENTS. NOT ALL TREE REMOVALS ARE EXPLICITLY IDENTIFIED IN WOODED AREAS. PRIOR TO CONSTRUCTION, STAKE OUT PROPOSED PIPE ROUTING AND STRUCTURE LOCATIONS FOR REVIEW AND APPROVAL BY THE THRUWAY AUTHORITY.
7. UNLESS OTHERWISE NOTED, ALL PIPES TO BE ABANDONED SHALL BE ABANDONED IN PLACE BY PLUGGING ENDS WITH CONCRETE.
8. ENDS OF PIPES ENTERING MANHOLES / STRUCTURES TO BE ABANDONED SHALL BE PLUGGED WITH 2 FT. OF CONCRETE. AFTER REMOVAL OF EQUIPMENT, ALL STRUCTURES TO BE ABANDONED SHALL BE CUT AND REMOVED A MINIMUM OF 3' BELOW GRADE AND REMAINING STRUCTURE SHALL HAVE HOLES CORED THE BOTTOM SLAB AND FILLED WITH CLEAN STONE.

PIPING

1. MINIMUM COVER ON SANITARY SEWER PIPES SHALL BE 5'-0", UNLESS NOTED OTHERWISE.
2. ALL WATER AND SEWER LINES TO BE INSTALLED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE WATER MAIN/SEWER CROSSING DETAIL PROVIDED IN THE CONTRACT DOCUMENTS.
3. ALL VERTICAL AND HORIZONTAL BENDS MAY NOT BE DEPICTED ON THE DRAWINGS.
4. PROVIDE ALL NECESSARY FITTINGS AND ADAPTERS THAT ARE REQUIRED TO CONNECT DIFFERENT TYPES OF PIPING MATERIAL.

SITE WORK

1. PROVIDE A MINIMUM OF 4 INCHES OF NEW TOPSOIL AND SEEDING, AND MAINTAIN LAWN GROUND COVER UNTIL CONCLUSION OF THE PROJECT.
2. AT PROJECT COMPLETION, RESTORE ANY SITE AREA OR FEATURE DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITION AS DETERMINED BY THRUWAY AUTHORITY.
3. PROVIDE AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS FOR THE DURATION OF THE PROJECT.
4. PROVIDE AND MAINTAIN TEMPORARY FENCING AS INDICATED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS FOR THE DURATION OF THE PROJECT.
5. PROVIDE AND MAINTAIN ACCESS TO THE SLUDGE HOLDING TANK FOR THE LICENSED HAULER TO PUMP EFFLUENT FROM SLUDGE HOLDING TANKS.

LEAD HANDLING NOTES:

1. PERFORM HANDLING AND DISPOSAL OF ALL LEAD-CONTAINING MATERIALS/PAINTS AND MATERIALS COATED WITH LEAD-CONTAINING PAINT IN ACCORDANCE WITH OSHA WORKER PROTECTION STANDARDS (29 CFR PART 1926.62) AND OTHER APPLICABLE REGULATIONS. REFER TO THE LIMITED HAZARDOUS MATERIAL SURVEY REPORT PROVIDED IN THE CONTRACT DOCUMENTS.
2. PROVIDE ALL NECESSARY DROP CLOTHS, DUST BARRIERS, AND CONTAINMENT STRUCTURES TO PREVENT THE SPREAD OF DUST FROM WORK AREA AND PREVENT LEAD EXPOSURE TO THE PUBLIC AND ENVIRONMENT.

ALTERED ON:	AFFIXED ON: 9/29/26
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JOSEPH B AWALD · 089707 · LICENSED PROFESSIONAL ENGINEER

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

Colliers Engineering & Design

TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: GENERAL NOTES	DRAWING NUMBER: GN-2

PW:/

DRAFTED BY: SMB / CHECKED BY: JBA / RAP

DESIGNED BY: ERE / SMB CHECKED BY: JBA / RAP

DESIGN SUPERVISOR: JBA

PORT BYRON PROJECT DESCRIPTION

THE FOLLOWING IS A GENERALIZED OUTLINE OF THE SCOPE OF WORK, MORE COMPLETELY DESCRIBED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS:

PORT BYRON WASTEWATER TREATMENT PLANT OPERATION

1. COORDINATE ALL WORK WITH THE THRUWAY AUTHORITY.
2. CONSTRUCTION ACTIVITIES, TEMPORARY BYPASS MEASURES, AND OPERATIONAL ADJUSTMENTS SHALL BE COORDINATED WITH THE THRUWAY AUTHORITY FOR THE DURATION OF THE CONTRACT TO MAINTAIN THE OPERATION OF THE WASTEWATER TREATMENT PLANT IN CONFORMANCE WITH THE CONDITIONS OF THE EXISTING NEW YORK "STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT."
3. WORK CLOSELY WITH THRUWAY AUTHORITY PERSONNEL RESPONSIBLE FOR THE OPERATION OF THE WASTEWATER TREATMENT PLANT TO ENSURE THAT THE NYSDEC SPDES PERMIT CONDITIONS, INCLUDING, BUT NOT LIMITED TO, EFFLUENT LIMITS ARE COMPLIED WITH FOR THE DURATION OF THE CONTRACT.
4. ALL COSTS INCURRED BY THE THRUWAY AUTHORITY FOR ANY VIOLATION OF THE SPDES PERMIT CAUSED BY THE ACTIONS OF THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. A COPY OF THE SPDES PERMIT IS INCLUDED IN THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL HAUL OFF FOR DISPOSAL INFLUENT WASTEWATER TO ANOTHER REGULATED WASTEWATER TREATMENT PLANT WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND/OR ARE OFFLINE. ALL COST INCURRED FOR STORAGE, TRANSFER, HAULING AND DISPOSAL OF THE WASTEWATER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL SITE

1. REPLACE ALL EXISTING YARD VALVES. CONTRACTOR TO VERIFY ALL VALVE SIZES.
2. SITE WORK INCLUDING CUT AND FILL, GRADING, TOPSOIL AND SEEDING AS NEEDED.
3. REMOVE OLD AND INSTALL NEW PIPING BY CUT AND COVER AS DETAILED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS.

EXISTING SLUDGE HOLDING TANK

1. PRIOR TO ANY WORK ON THE IMPROVEMENTS IN WHICH THE PROCESSES ARE TAKEN OFFLINE, THE EXISTING TANK SHALL BE DRAINED AND CLEANED.
2. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OFF-SITE ALL MATERIAL IN THE TANKS AND ANY WASH WATER UTILIZED.
3. FOLLOWING CLEANING, THE FACILITY MAY BE USED AS A HOLDING TANK FOR THE PLANT INFLUENT.
4. CONTRACTOR SHALL PROVIDE TEMPORARY GRAVITY PIPING FROM THE PLANT FLOW DIVERSION STRUCTURE TO THE TANK. SEE FLOW DIVERSION STRUCTURE FOR FURTHER DETAILS.
5. CONTRACTOR SHALL REMOVE THE INFLUENT WASTEWATER OFF-SITE AS NOTED ABOVE ON A CONTINUING BASIS ALLOWING NO MORE THAN **7,500** GALLONS OF STORAGE AT ANY TIME. RECENT FLOW RECORDS INDICATE AN AVERAGE DAILY FLOW OF 2,000 GPD, AND A MAX DAILY FLOW OF 10,000 GPD.
6. FOLLOWING COMMISSIONING OF THE NEW PLANT, CONTRACTOR SHALL CLEAN THE TANK AND REMOVE ALL SEWAGE FROM THE TANK FOR OFF-SITE DISPOSAL, CORE FOUR (4) 8-INCH DIAMETER HOLES FULL DEPTH IN THE TANK BOTTOM CONCRETE SLAB, DEMOLISH THE TANK AND ALL COMPONENTS TO 3-FEET BELOW FINISHED GRADE, AND FILL THE STRUCTURE WITH CLEAN STONE.
7. STONE SHALL BE COVERED WITH A WOVEN FILTER FABRIC COVERED BY 1-FOOT OF COMMON FILL AND 4" TOPSOIL. SEE DETAIL ON SD-4.

FLOW DIVERSION STRUCTURE

1. TEMPORARILY PLUG THE TWO (2) EXISTING EFFLUENT PIPES AND CORE DRILL AND PROVIDE TEMPORARY GRAVITY PIPE TO CONNECT TO EXISTING SLUDGE HOLDING TANK.

INFLUENT PUMP STATION

1. REPLACE ONE (1) SUBMERSIBLE PUMP WITH A NEW SOLIDS HANDLING PUMP WITH MIXING VALVE.

HEADWORKS STRUCTURE

1. MODIFY GRINDER CHANNEL TO BETTER HANDLE LOW FLOWS.

EQUALIZATION TANK & SLUDGE HOLDING TANK

1. EXISTING EQUALIZATION TANK SHALL BE SPLIT INTO TWO CHAMBER.
2. CHAMBER NO. 1 TO REMAIN AS EQUALIZATION TANK. CHAMBER NO. 2 SHALL BE CONVERTED TO PROPOSED SLUDGE HOLDING TANK.
3. REMOVE EXISTING DIFFUSERS AND HEADER PIPING. INSTALL NEW DIFFUSERS AND HEADER PIPING IN CHAMBER NO. 1.
4. PROVIDE NEW FRP COVER FOR PROPOSED SLUDGE HOLDING TANK.
5. CORE THREE (3) 6" PENETRATIONS TO ALLOW DECANTING FROM PROPOSED SLUDGE HOLDING TANK (CHAMBER NO. 2) TO EQUALIZATION TANK (CHAMBER NO. 1).

SECONDARY CLARIFIER

1. REMOVE AND REPLACE CHAIN AND FLIGHT SYSTEM IN THE SECONDARY CLARIFIER AND INSTALL SCUM COLLECTION.

TRICKLING FILTER

1. EXISTING ROTATING ARM MECHANISM TO BE REPLACED IN KIND. EXISTING STONE FILTER MEDIA TO BE REPLACED WITH NEW POLYPROPYLENE MEDIA. EXISTING ROOF SHALL BE REMOVED AND REPLACED WITH PREFABRICATED ALUMINUM DOME . BLOWER VENT AND CEILING LIGHTS TO BE REPLACED.

ELECTRICAL / CONTROL BUILDING

1. REMOVE ALL PUMPS, ELECTRICAL CONTROLS AND OTHER RELATED EQUIPMENT AND APPURTENANCES.
2. PROVIDE NEW PUMPS, PIPING, CONTROLS, EQUIPMENT AND APPURTENANCES FOR THE PROPOSED SYSTEM.
3. REMOVE AND REPLACE TRICKLING FILTER FEED PUMPS, SLUDGE PUMPS, CONTROLS, AND PIPING.
4. INSTALL NON-SKID FLOORING COATING AND REPAIR / RE-PAINT WALLS.

DOSING CHAMBER

1. REMOVE AND REPLACE THE EXISTING SIPHON SYSTEM WITHIN THE CHAMBER AND ALL CORRESPONDING YARD VALVES.

SAND FILTER BEDS

1. REMOVE AND REPLACE-IN-KIND THE EXISTING TIMBERS BORDERING SAND FILTER BEDS.

PORT BYRON WWTP 2024 INFLUENT FLOWS AND LOADING

	PARAMETER	AVERAGE	MAX
	FLOW (GPD)	2,000	10,000
MONTHLY AVERAGE	MAX INF. pH	8.7	8.9
	MAX EFF. pH	7.1	7.8
	INF. SETTLE SOLIDS (mL/L)	136.7	200.0
	EFF. SETTLE SOLIDS (ML/L)	0.1	0.1
MEASURED ONCE PER MONTH	INF. BOD_5 (mg/L)	820	2010
	EFF. BOD_5 (mg/L)	3.0	3.1
	INF. SUSPENDED SOLIDS (mg/L)	574	3280
	EFF. SUSPENDED SOLIDS (mg/L)	5	5

PORT BYRON WWTP 2024 - TO DATE MONTHLY FLOWS

MONTH	AVG. FLOW (MGD)	PEAK DAY FLOW (MGD)
SEP-24	0.002	0.005
OCT-24	0.001	0.004
NOV-24	0.002	0.004
DEC-24	0.002	0.004
JAN-25	0.002	0.007
FEB-25	0.002	0.006
MAR-25	0.002	0.006
APR-25	0.002	0.003
MAY-25	0.003	0.010
JUN-25	0.002	0.004
JUL-25	0.002	0.004
AUG-25	0.002	0.004
SEP-25	0.002	0.004
OCT-25	0.002	0.004
NOV-25	0.001	0.005
DEC-25	0.001	0.004
JAN-26	0.002	0.003
FEB-26	0.002	0.008
MAR-26	0.003	0.005
APR-26	0.004	0.013
MAY-26	0.002	0.014

ALTERED ON:	AFFIXED ON: 9/29/26
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK JOSEPH B AWALD 089707 LICENSED PROFESSIONAL ENGINEER

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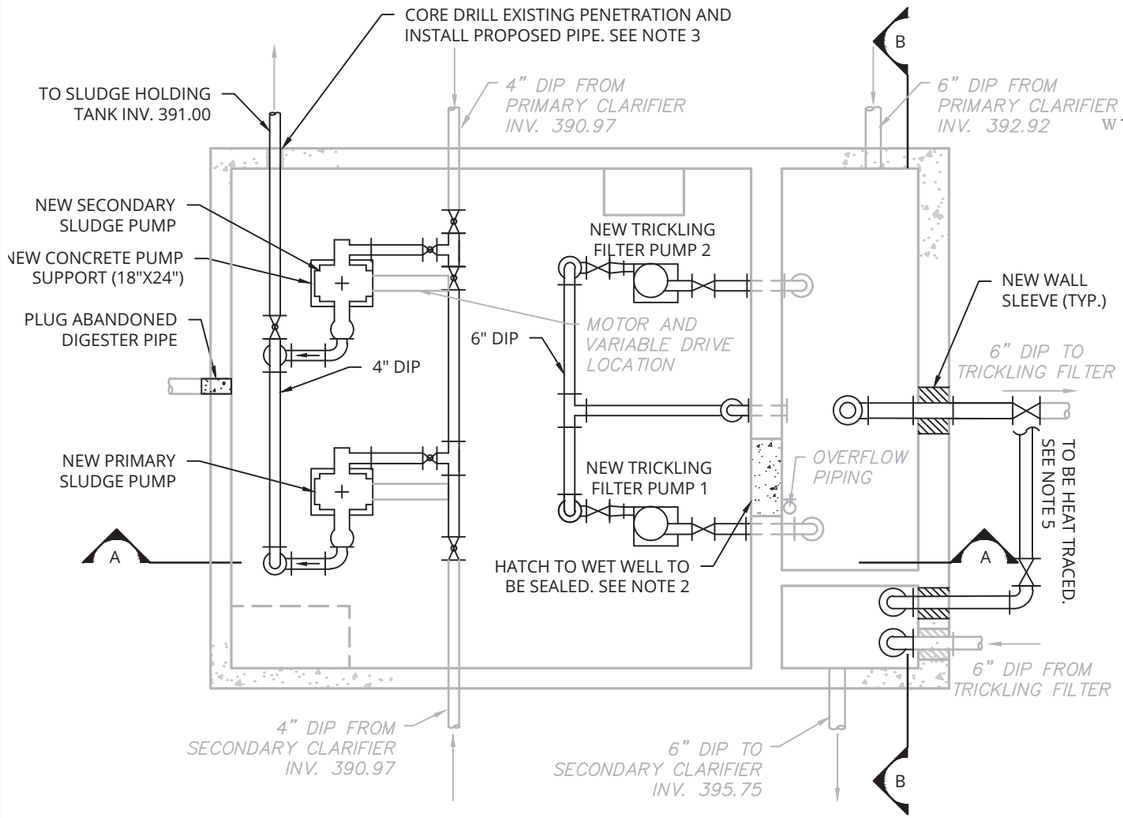
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

Colliers Engineering & Design

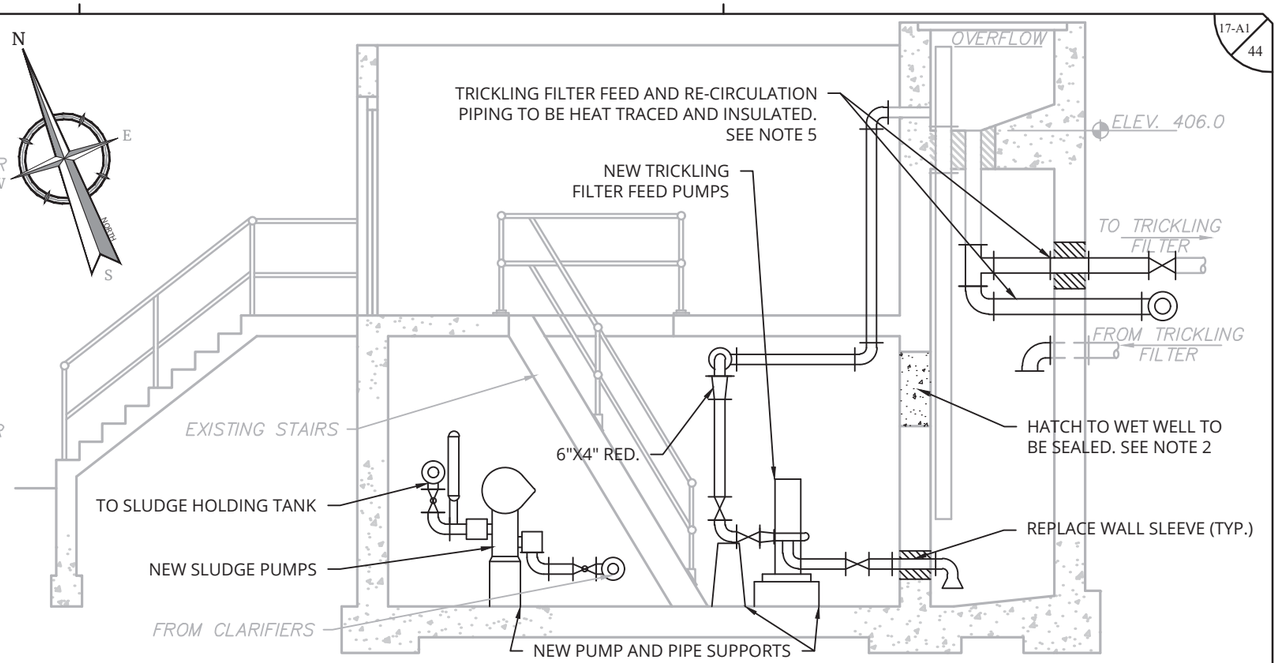
TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: PROJECT DESCRIPTION NOTES	DRAWING NUMBER: GN-3

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DESIGN SUPERVISOR: JBA



CONTROL BUILDING BASEMENT PROPOSED PLAN

SCALE: 1"=5'



(A) CONTROL BUILDING PROPOSED SECTION

SCALE: 1"=5'

(B) CONTROL BUILDING PROPOSED SECTION

SCALE: 1"=5'

THIS SHEET SUPERSEDES SHEET 17

NOTES:

1. ALL INVERTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK.
2. WET WELL ACCESS HATCH TO BE FILLED WITH CONCRETE AND SEALED WITH SIKA SWELLSTOP OR APPROVED EQUAL. LEVEL CONTROL FLOATS ADJACENT TO HATCH SHALL BE RELOCATED AND MADE ACCESSIBLE FROM EXTERIOR ACCESS DOOR.
3. EXISTING STRUCTURES SHALL BE CORE-DRILLED AND NEW PIPES TO BE INSTALLED WITH MECHANICAL LINK SEAL. REFER TO "EXISTING MANHOLE / STRUCTURE PENETRATION" DETAIL ON SHEET SD-1.
4. INSTALL NON-SKID FLOORING COATING AND REPAIR / RE-PAINT WALLS.
5. TRICKLING FILTER FEED AND RE-CIRCULATION PIPING SHALL BE HEAT TRACED AND INSULATED. REFER TO SHEET SD-5 FOR DETAILS

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SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK JOSEPH B AWAD 089707 LICENSED PROFESSIONAL ENGINEER

5 0 5 10

SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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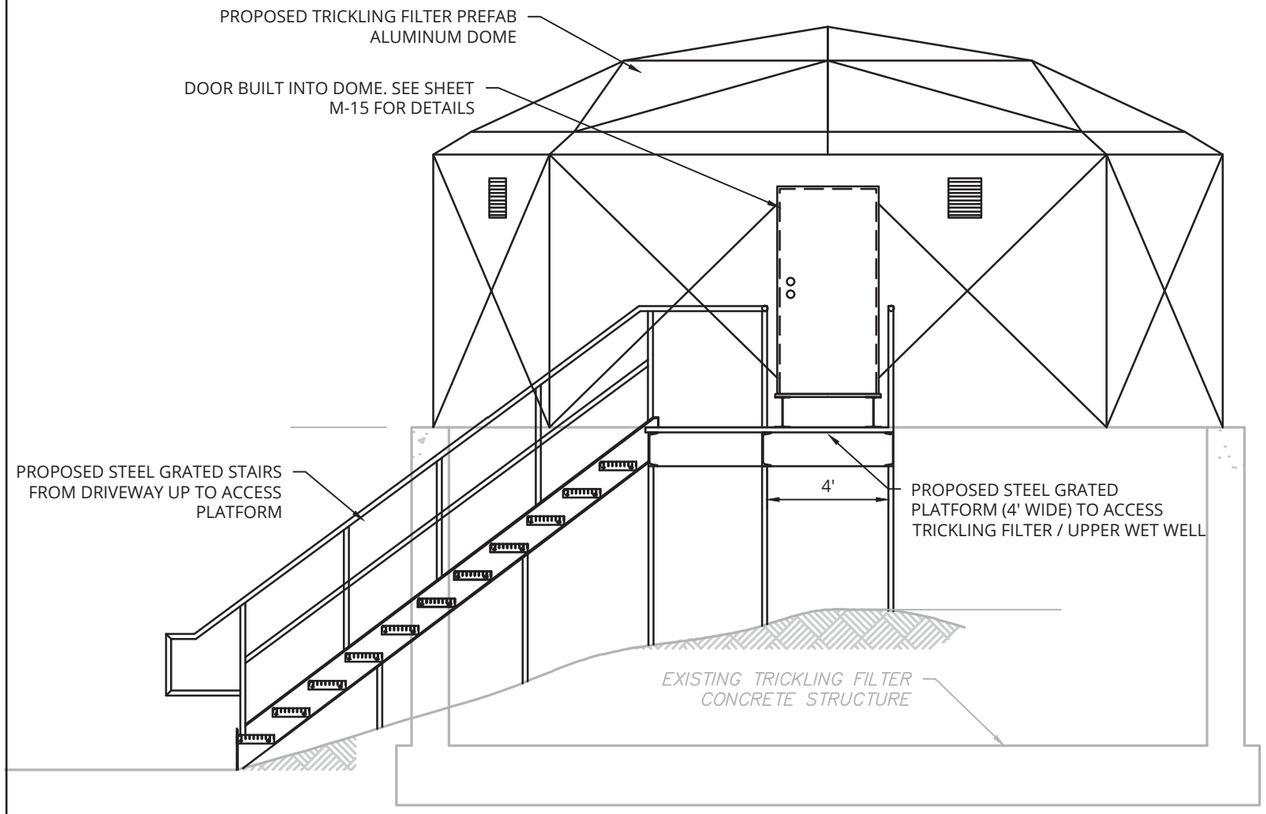
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DATE	DESCRIPTION	BY	SYM.

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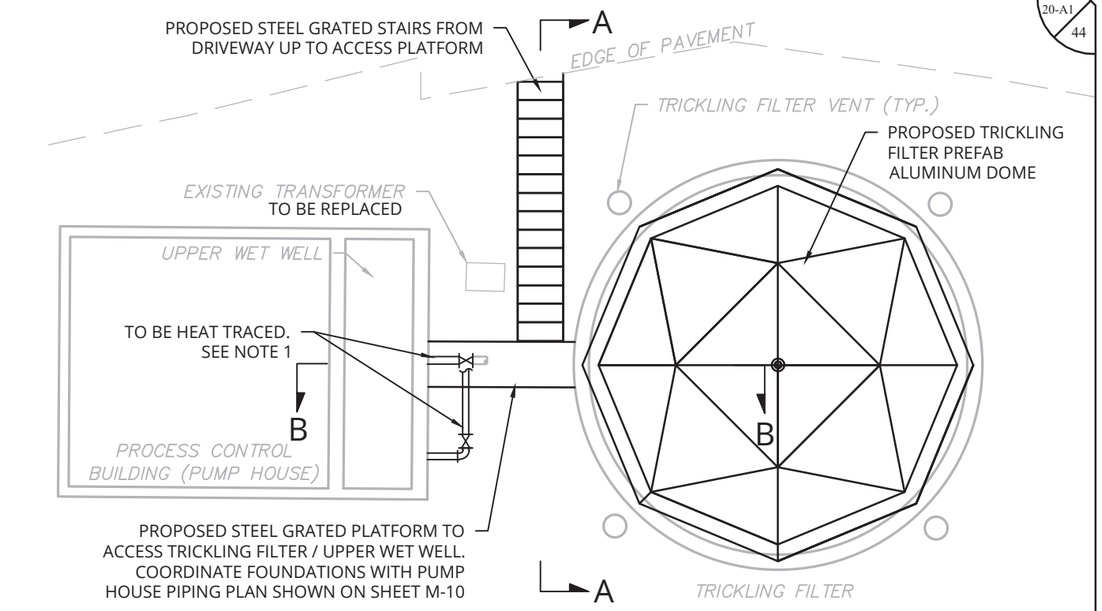
TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: CONTROL BUILDING PROPOSED PLAN AND SECTIONS	DRAWING NUMBER: M-10

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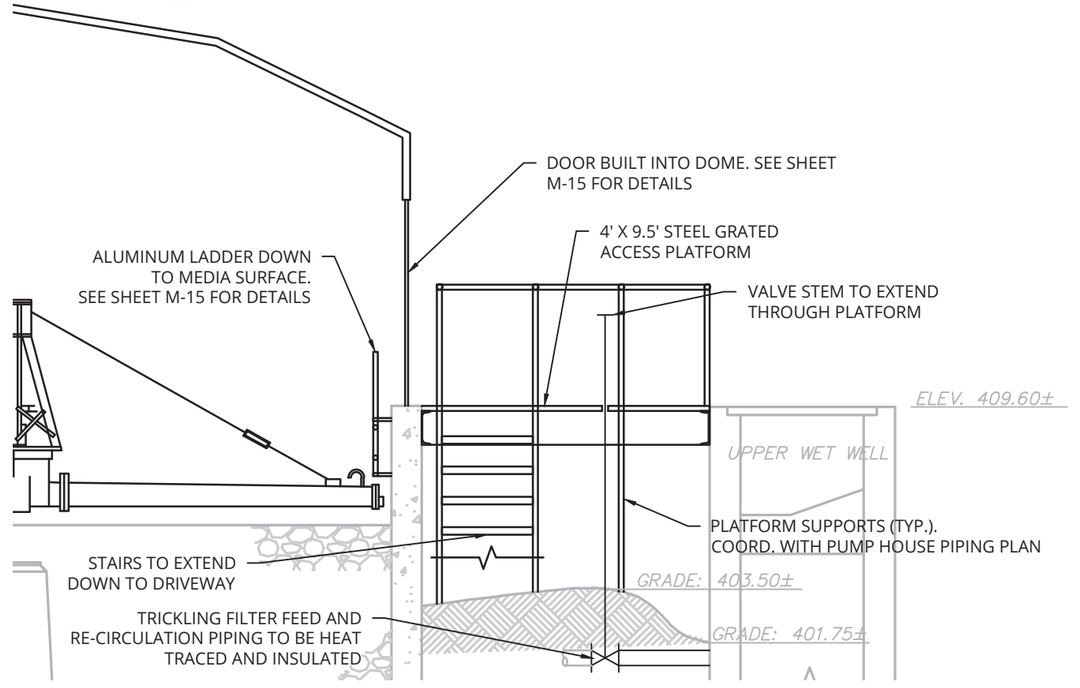
TRICKLING FILTER ACCESS STAIRS SECTION 'A-A'

SCALE: 1"=5'



TRICKLING FILTER ACCESS STAIRS PLAN VIEW

SCALE: 1"=10



TRICKLING FILTER ACCESS STAIRS SECTION 'B-B'

SCALE: 1"=5'

NOTES:

1. TRICKLING FILTER FEED AND RE-CIRCULATION PIPING SHALL BE HEAT TRACED AND INSULATED. REFER TO SHEET SD-5 FOR DETAILS.

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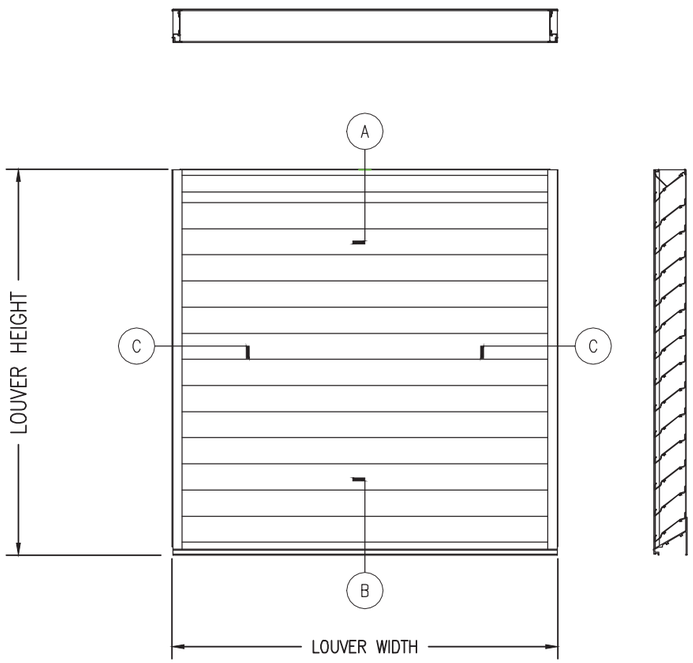
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

THIS SHEET SUPERSEDES SHEET 20

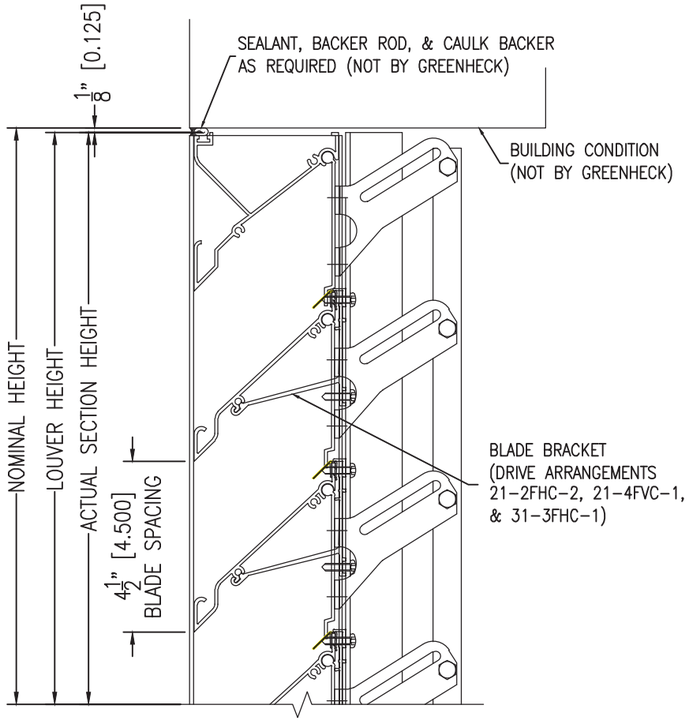
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TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: TRICKLING FILTER PROPOSED ACCESS STAIRS AND PLATFORM	DRAWING NUMBER: M-13

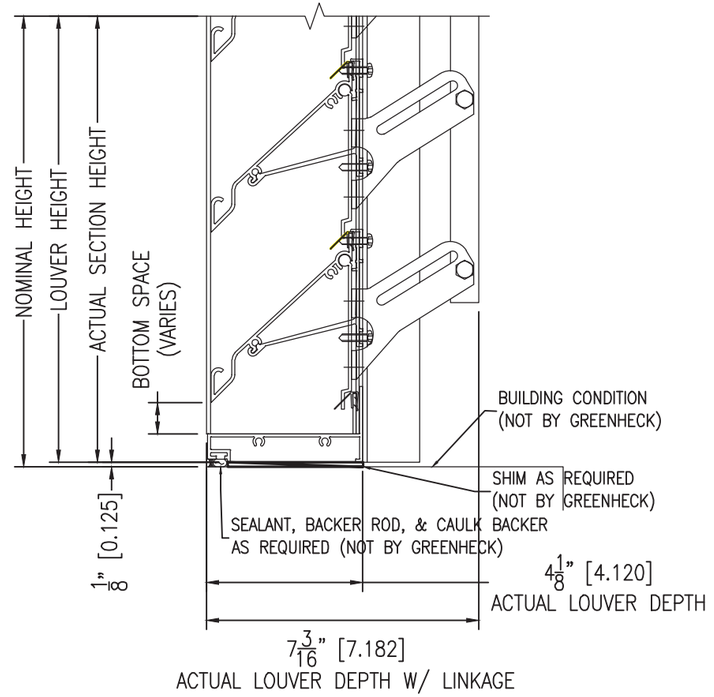
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DESIGN SUPERVISOR: JBA



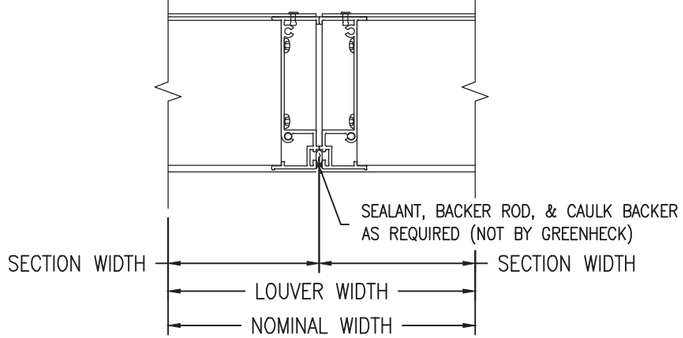
PLAN VIEW



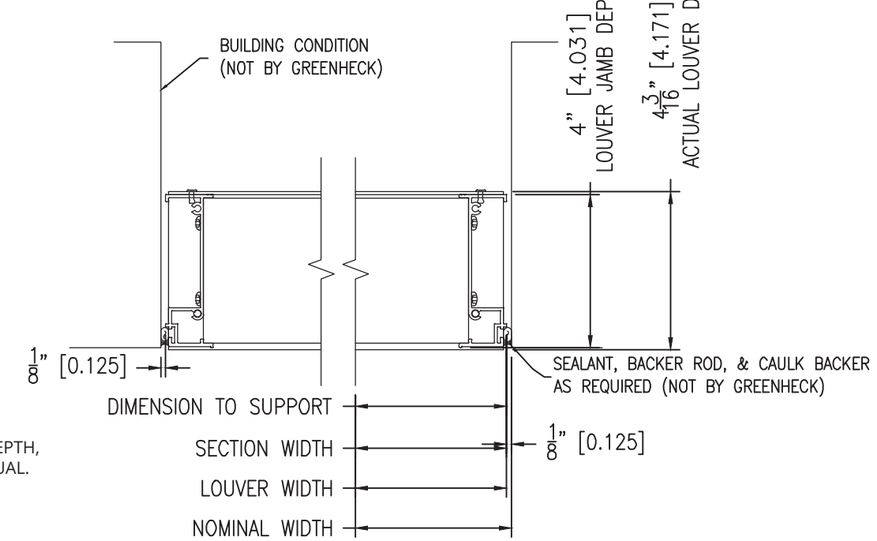
SECTION 'A-A'



SECTION 'B-B'



SECTION 'D-D'



SECTION 'C-C'

NOTES:

1. TRICKLING FILTER DOME LOUVER TO BE COMBINATION LOUVER / DAMPER, DRAINABLE BLADE, 4" DEPTH, WITH ELECTRIC ACTUATOR, MODEL ECD-401 AS MANUFACTURED BY GREENHECK OR APPROVED EQUAL.

TRICKLING FILTER DOME LOUVER DETAILS

NOT TO SCALE

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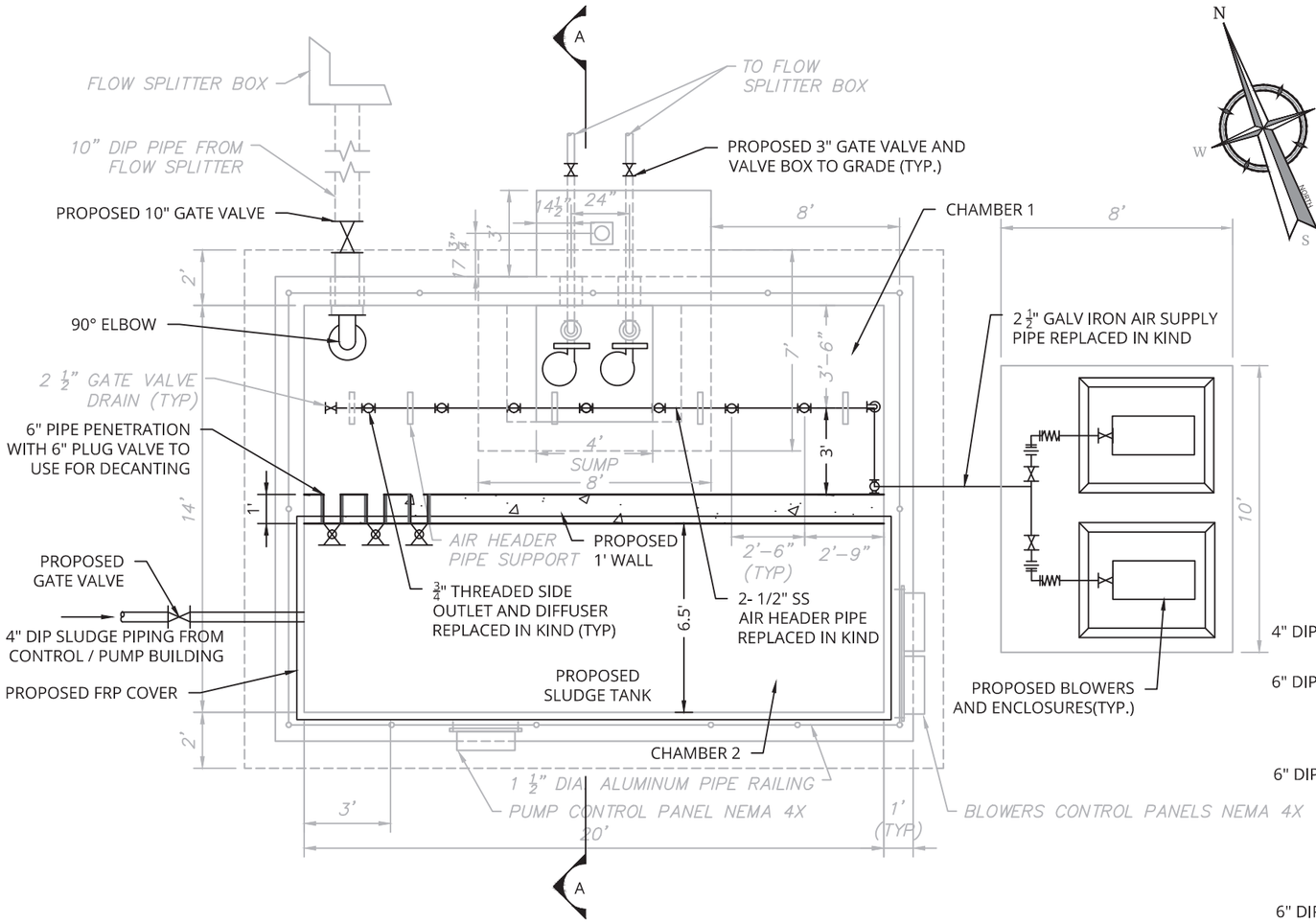
REVISIONS			
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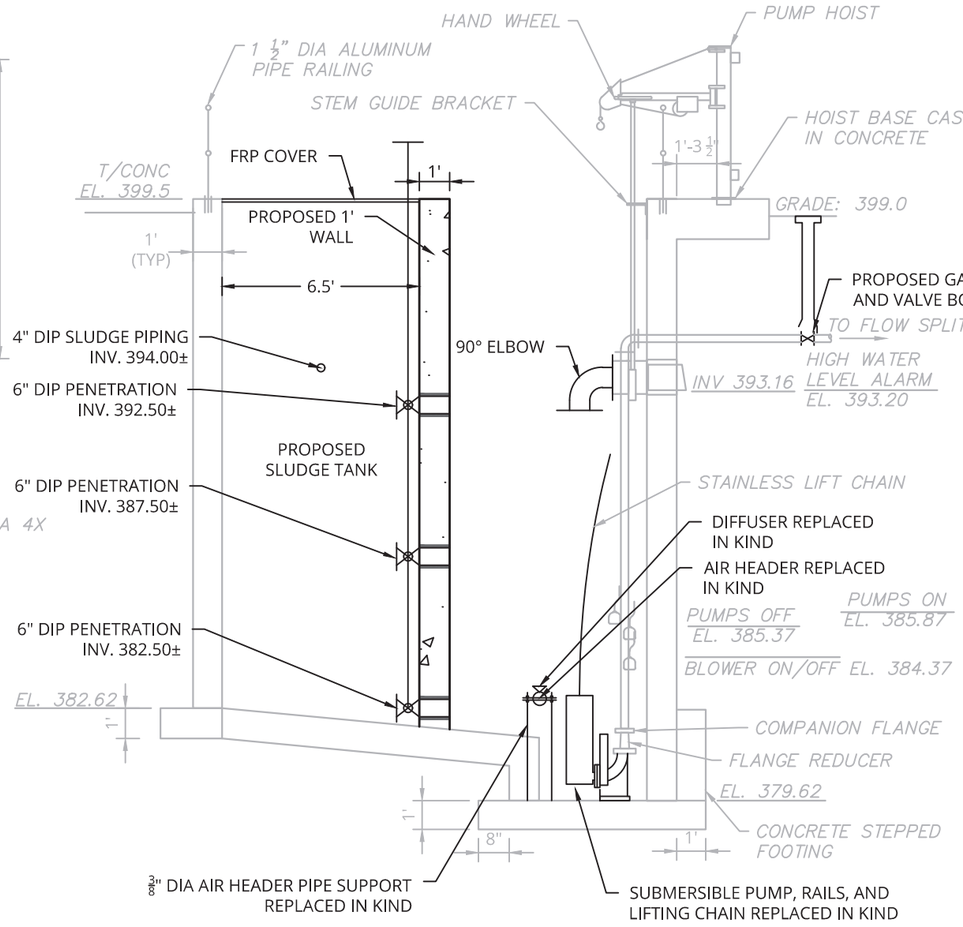
THIS SHEET SUPERSEDES SHEET 24

TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: TRICKLING FILTER PROPOSED DETAILS	DRAWING NUMBER: M-17



EQUALIZATION TANK PROPOSED PLAN

SCALE: 1"=5'



(A) EQUALIZATION TANK PROPOSED PROFILE

SCALE: 1"=5'

NOTES:

1. ALL INVERTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK

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SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: EQUALIZATION TANK PROPOSED PLAN AND SECTION	DRAWING NUMBER: M-23

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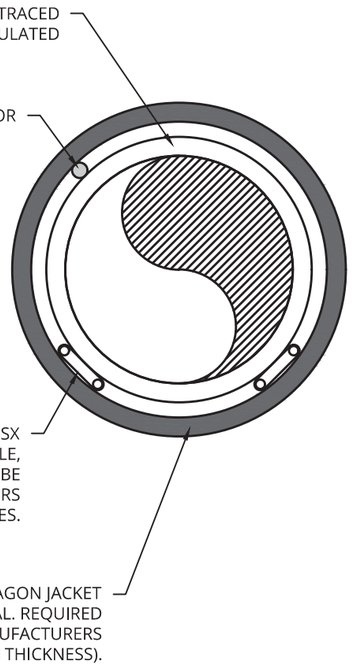
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CHECKED BY: JBA / RAP

DESIGNED BY: ERE / SMB

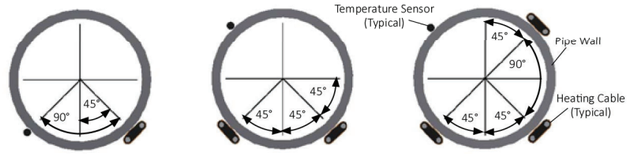
DESIGN SUPERVISOR: JBA



PIPE HEAT TRACER AND INSULATION DETAIL

SCALE: NONE

Illustration B: Heating Cable vs. Sensor Location



Installation on Elbows, Pipe Supports, and Flanges

- **Elbows**: Locate the trace heater on the outside radius of the elbow (Illustration D). Secure the trace heater to the pipe with attachment tape on each side of the elbow.
- **Pipe Supports**: For uninsulated pipe supports, allow twice the length of the support, plus an additional 40 cm of trace heater. Install the trace heater in a loop, following Illustration E as a guide. Insulated pipe supports do not require additional length of trace heater.
- **Flanges**: Loop the trace heater around the pipe on each side of, and adjacent to, the flange (Illustration F). Be sure to keep the trace heater in close contact with the flange throughout the length of the bend.

Refer to Table 2 (page 8) for typical flange allowances.

Illustration D: Pipe Elbow



Illustration E: Uninsulated Pipe Support

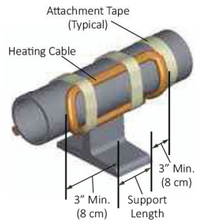
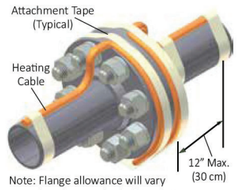
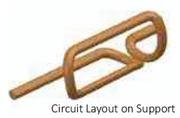


Illustration F: Pipe Flange

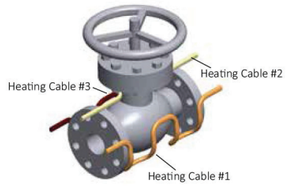


Note: Flange allowance will vary based on method of insulating flange and adjacent piping.



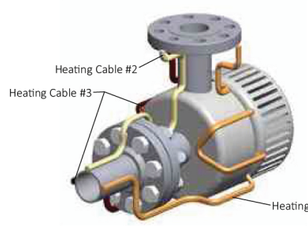
Note . . .
1. Only applicable for pipe ≥ 50mm.

Illustration G: Typical Valve Detail



Heating Cable Serpentined on Valve

Illustration H: Typical Pump Detail



Heating Cable Serpentined on Pump

DRAGON JACKET INSULATION

DRAGON JACKET S1™
TECHNICAL DATA SHEET

REVISED 10/12/18

TYPICAL PHYSICAL PROPERTIES	
Tensile Strength ASTM D412-06a	>4,000 psi (27.80 mpa)
Elongation ASTM D412-06a	>300%
Hardness (Shore A) ASTM D2240	N/A
Hardness (Shore D) ASTM D2240	57
100% Modulus ASTM D412-06	1,250 psi ± 100 (8 mpa)
300% Modulus ASTM D412-06	2,300 psi ± 100 (15 mpa)
Tear Resistance ASTM D624	420 PLI ± 50 (73 KN/m)
***Exposure Temperature** **Test performed in a dry, static environment*	-60°F to +300°F (-50°C to +149°C)

TEST INFORMATION		
Abrasion Resistance ASTM D4060 1kg - 1,000 cycles	H-22	62 mg lost
Weatherability QUV	no evidence after 3,000 hours	

COLORS

Dragon Jacket S1™ is available in high pigment black and silver. Custom colors will be quoted upon request.

TEST METHOD: 3,000 hour QUV Test with 0 degradation. Longer term testing is ongoing, and results will be available upon request.

**It should be noted that Dragon Jacket S1™ is an aromatic polyurea; therefore, as with all aromatics, color change and superficial oxidation will occur.*

HEAT FLOW METER THERMAL TRANSMISSION (R-VALUE)	
Test Specimen ID	1
Test Duration (Minutes)	50
Average Heat Flux (Btu/hr·ft²)	3.99
Average Thermal Conductance - C (Btu/hr·ft²·°F)	0.080
Average Thermal Resistance - R (hr·ft²·°F/Btu)	12.53
Average Thermal Resistance -R_{si} (m^2·K/W)	2.21
Average Thermal Resistivity -r (hr·ft²·°F/Btu-in)	5.74
Apparent Thermal Conductivity -k (Btu-in/hr·ft²·°F)	0.174
Specimine Average Thickness (inches)	2.183
†Specimine Average Density (lbs/ft³)	5.7

TEST METHOD

ASTM C518-10, Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.

†The density of the sample was determined by dividing the average weight of the sample by its volume. The weight was measured using a calibrated scale and the volume was determined by measuring the length, width, and height of a sample.

WWW.DRAGONJACKET.COM
(208) 772-8640 • INFO@DRAGONJACKET.COM
14080 N. THAYER ST. RATHDRUM, IDAHO 83858

DESIGN SUPERVISOR: JBA
DESIGNED BY: ERE / SMB
DRAFTED BY: SMB /
CHECKED BY: JBA / RAP
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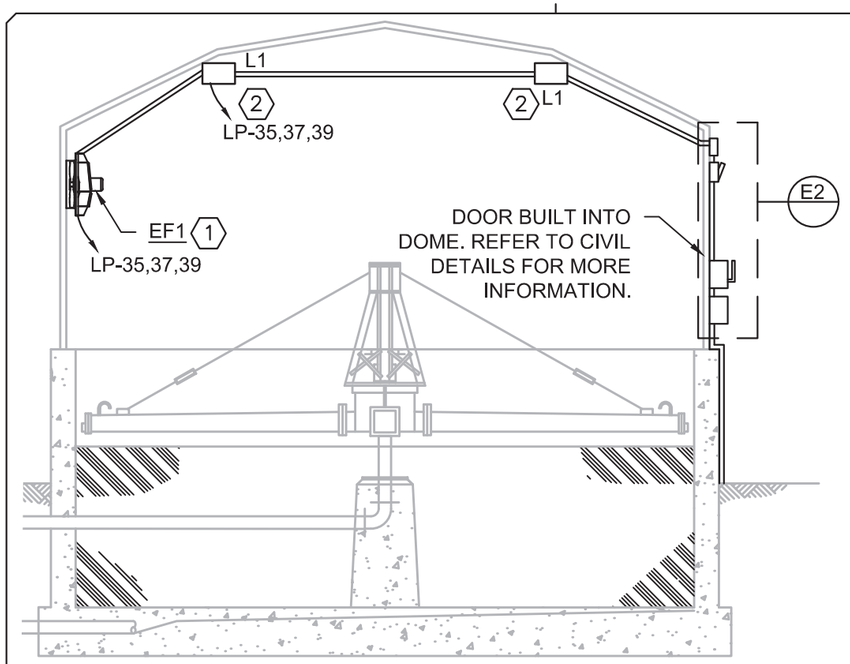
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DATE	DESCRIPTION	BY	SYM.

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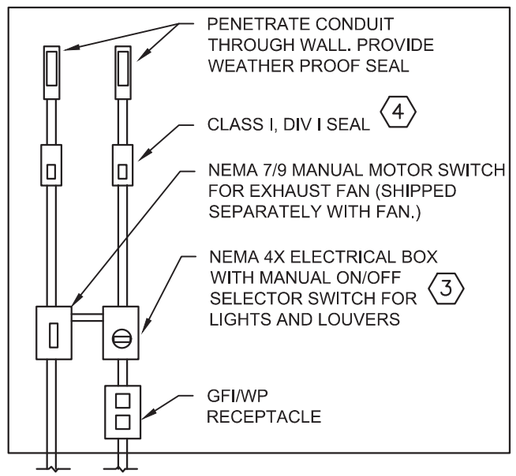
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LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: SITE DETAILS	DRAWING NUMBER: SD-5

THIS SHEET SUPERSEDES SHEET 36



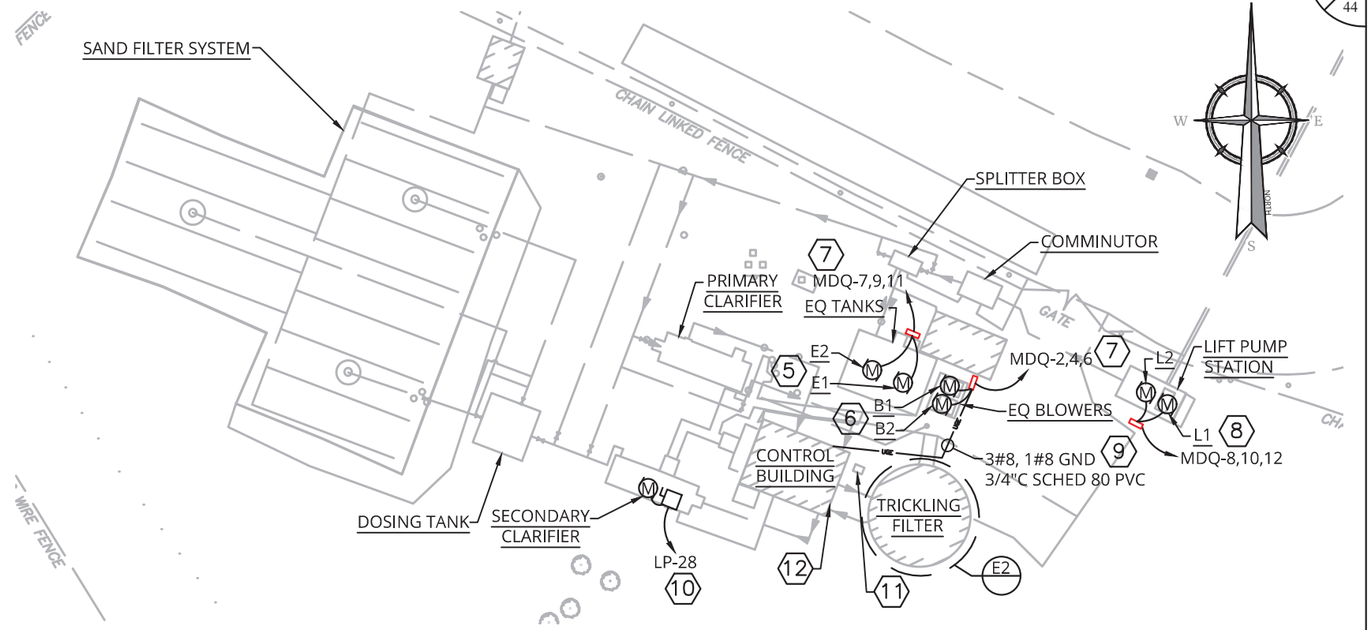
TRICKLER FILTER IMPROVEMENT PLAN

SCALE NTS



TRICKLER FILTER ELEVATION PLAN

SCALE NTS



ELECTRICAL SITE PROPOSED IMPROVEMENT PLAN

SCALE 1"=40'

ELECTRICAL KEYNOTES: (X)

1. EXISTING EXHAUST FAN TO BE REPLACED AND ELECTRICALLY ACTUATED LOUVERS INSTALLED INSIDE TRICKLING FILTER. THE ENVIRONMENT INSIDE THE STRUCTURE CLASS 1 DIV 1. ALL ELECTRICAL EQUIPMENT INSIDE TRICKLING FILTER SHALL BE RATED FOR SUCH AN ENVIRONMENT. PROVIDE RGS CONDUIT AND WIRE FROM SOURCE PANEL. MOTORIZED LOUVERS TO BE CONTROLLED BY EXHAUST FAN. PROVIDE PENETRATION AND CLASS I DIV I SEAL THROUGH WALL AS REQUIRED.

2. LIGHTING INSIDE TRICKLING FILTER SHALL BE REPLACED. PROVIDE BRANCH CIRCUIT CONDUIT AND WIRING RATED FOR CLASS I, DIV I ENVIRONMENTS INSIDE TRICKLING FILTER TO NEW LIGHT FIXTURES. REFER TO LUMINAIRE SCHEDULE ON E-4. LIGHTING BRANCH CIRCUIT SHALL ALSO POWER LOUVERS AND WEATHERPROOF RECEPTACLE.

3. PROVIDE NORMALLY OPEN SPDT CONTACTOR INSIDE NEMA 4X ELECTRICAL BOX TO CONTROL THE OPERATION OF THE LOUVERS AND LIGHT FIXTURES. WIRE THE LIGHT FIXTURES AND LOUVERS THROUGH THE CONTACT OF THE N.O. CONTACTOR. WIRE SYSTEM SUCH THAT THE CONTACTOR CLOSES WHEN THE EXHAUST FAN IS MANUALLY TURNED ON. A SINGLE POLE OF THE EXHAUST FAN POWER CIRCUIT SHALL BE USED TO ENERGIZE THE CONTACTOR COIL. ADDITIONALLY, PROVIDE A MANUAL OVERRIDE SWITCH ON FRONT OF ELECTRICAL BOX SUCH THAT THE LIGHTS AND LOUVERS CAN BE TURNED ON WHILE THE EXHAUST FAN IS OFF.

4. ANY AND ALL PENETRATIONS OF CONDUIT INTO THE TRICKLING FILTER MUST INCLUDE A SEAL OFF IN THE CONDUIT ON THE EXTERIOR SIDE OF THE TRICKLING FILTER.

5. EXISTING EQUALIZATION PUMPS TO BE REPLACED IN KIND. PROVIDE ELECTRICAL CONNECTION TO NEW PUMPS. REUSE EXISTING WIRING AND CONDUIT, EXTEND AS NEEDED. REFER TO SHEET E4 FOR MORE INFORMATION. COORDINATE WITH CIVIL DRAWINGS ON EXACT LOCATION OF NEW FLOAT SWITCHES.

6. EXISTING BLOWERS TO BE REPLACED. PROVIDE ELECTRICAL CONNECTION TO BLOWERS. PROVIDE BRANCH CIRCUIT WIRING AND CONDUIT AS SHOWN. REFER TO SHEET E4 FOR MORE INFORMATION.

7. CONTROL PANEL TO BE REMOVED AND REPLACED WITH PUMP VENDOR PROVIDED CONTROL PANEL. POWER TO EQUIPMENT SHALL BE WIRED THROUGH NEW CONTROL PANEL. CALL SERVICE AUTO DIALER SHALL BE BUILT IN BY MANUFACTURER, HARD WIRED PHONE CABLE BACKUP CONNECTION ONLY REQUIRED IF SPECIFIED BY LOCAL FIRE MARSHALL. REFER TO SPECIFICATIONS. ALL MONITORING SYSTEMS AND FIELD DEVICES SHALL REMAIN. MONITORING SYSTEMS SHALL BE INTEGRATED WITH NEW CONTROL PANEL.

8. PROVIDE ELECTRICAL CONNECTION TO NEW INFLUENT PUMPS. PROVIDE BRANCH CIRCUIT WIRING AND CONDUIT. CONTROL PANEL TO BE REMOVED AND REPLACED WITH PUMP VENDOR PROVIDED CONTROL PANEL. POWER TO EQUIPMENT SHALL BE WIRED THROUGH NEW CONTROL PANEL. CALL SERVICE AUTO DIALER SHALL BE BUILT IN BY MANUFACTURER, HARD WIRED PHONE CABLE BACKUP CONNECTION ONLY REQUIRED IF SPECIFIED BY LOCAL FIRE MARSHALL. REFER TO SPECIFICATIONS. ALL MONITORING SYSTEMS AND FIELD DEVICES SHALL REMAIN. MONITORING SYSTEMS SHALL BE INTEGRATED WITH NEW CONTROL PANEL. REFER TO SHEET E4 FOR MORE INFORMATION.

9. DISCONNECT AND REMOVE BRANCH CIRCUIT WIRING AND CONDUIT FOR BLOWERS BACK TO CONTROL HOUSE. PROVIDE BRANCH CIRCUIT WIRING AND CONDUIT ALONG EXISTING PATH.

10. EXISTING SECONDARY CHAIN DRIVE TO BE REPLACED. PROVIDE ELECTRICAL CONNECTION TO CHAIN DRIVE. EXISTING DISCONNECT SWITCH TO BE REPLACED. REUSE EXISTING BRANCH CIRCUIT WIRING AND CONDUIT, EXTEND AS NEEDED. REFER TO SHEET E4 FOR MORE INFORMATION.

11. DISCONNECT AND REMOVE 75KVA TRANSFORMER TO BE REPLACED. REFER TO SHEET E-5 FOR MORE INFORMATION. PROVIDE WRITTEN NOTICE OF A POWER SHUTDOWN TO OWNERS REPRESENTATIVE ONE WEEK PRIOR.

12. RECONFIGURE CONDUIT TO ACCOMMODATE NEW TRICKLING FILTER STAIRCASE.

ALTERED ON:	AFFIXED ON:
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK JOSHUA ROBERT DOORES LICENSED PROFESSIONAL ENGINEER No. 107076 9/29/2026

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REVISIONS

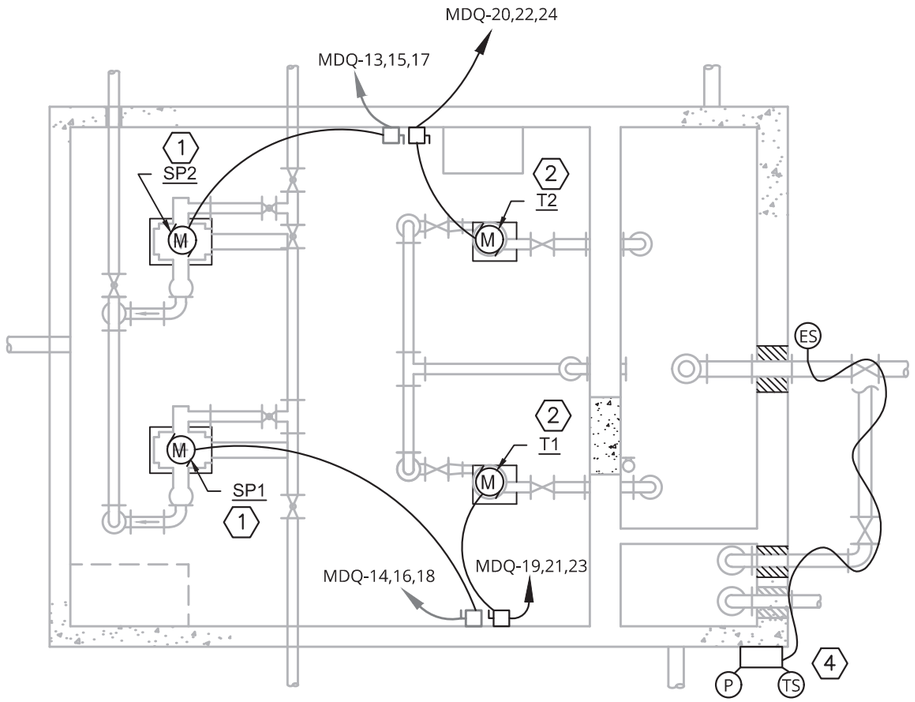
DATE	DESCRIPTION	BY	SYM.

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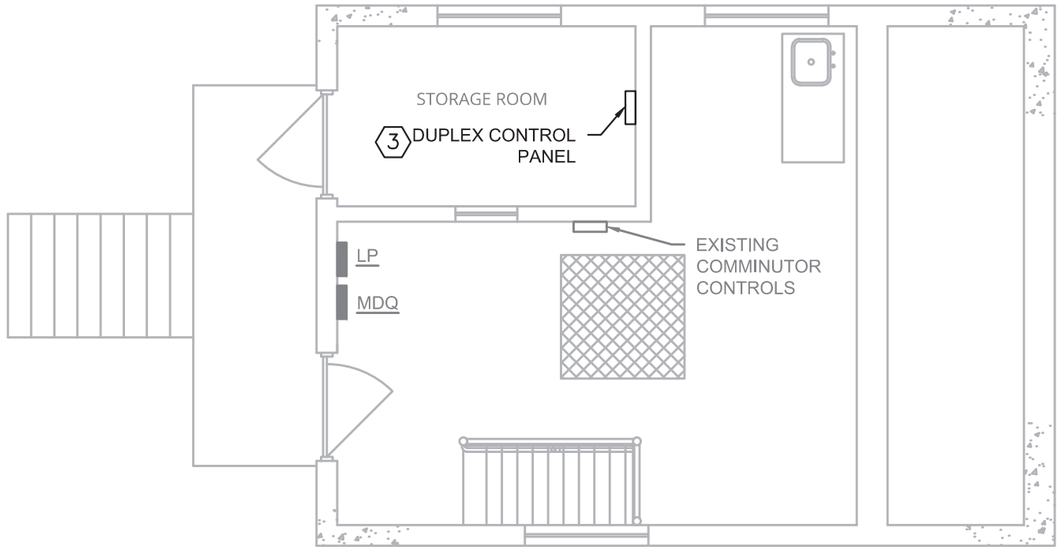
TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: ELECTRICAL SITE PLAN	DRAWING NUMBER: E-2

PW:/
CHECKED BY: JRD
DRAFTED BY: DRA
CHECKED BY: JRD
DESIGNED BY: DRA
DESIGN SUPERVISOR: BA/JRD



CONTROL BUILDING BASMENT PROPOSED IMPROVEMENTS PLAN

SCALE: 1"=5'



CONTROL BUILDING FIRST FLOOR PROPOSED IMPROVEMENTS PLAN

SCALE: 1"=5'

5 0 5 10

SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

X ELECTRICAL KEYNOTES:

1. PROVIDE ELECTRICAL CONNECTION TO NEW SLUDGE PUMP. REUSE EXISTING BRANCH CIRCUIT CONDUIT, WIRE, DISCONNECT SWITCH. PROVIDE OVERLOADS SPECIFIC TO MOTOR FULL LOAD CURRENT. SLUDGE PUMPS WILL BE INTEGRATED WITH NEW PUMPS AND CONTROLLED BY NEW DUPLEX PANEL.

2. PROVIDE ELECTRICAL CONNECTION TO NEW TRICKER FILTER PUMP. REUSE EXISTING BRANCH CIRCUIT CONDUIT AND WIRING DISCONNECTED DURING DEMOLITION, EXTEND IF NEEDED. PROVIDE OVERLOADS SPECIFIC TO MOTOR FULL LOAD CURRENT. TRICKLER PUMPS WILL BE INTEGRATED WITH NEW PUMPS AND CONTROLLED BY NEW DUPLEX PANEL.

3. PROVIDE ELECTRICAL CONNECTION TO NEW DUPLEX CONTROL PANEL PROVIDED BY PUMP VENDOR. POWER TO TRICKLER FEED PUMPS AND SLUDGE PUMPS SHALL BE WIRED THROUGH NEW CONTROL PANEL. CALL SERVICE AUTO DIALER SHALL BE BUILT IN BY MANUFACTURER, HARD WIRED PHONE CABLE BACKUP CONNECTION ONLY REQUIRED IF SPECIFIED BY LOCAL FIRE MARSHALL. REFER TO SPECIFICATIONS. ALL MONITORING SYSTEMS AND FIELD DEVICES LOCATED ON BASEMENT AND FIRST FLOOR SHALL REMAIN. MONITORING SYSTEMS SHALL BE INTEGRATED WITH NEW DUPLEX CONTROL PANEL. REUSE EXISTING CONDUIT AND WIRING WHERE POSSIBLE.

4. PROVIDE A COMPLETELY FUNCTIONAL HEAT TAPE SYSTEM FOR THE WET WELL PIPING MOVED OUTSIDE WET WELL STRUCTURE. PROVIDE A NEMA 4X, NM ELECTRICAL BOX ON EXTERIOR WALL TO MOUNT THERMOSTAT AS WELL AS CONTAIN POWER SPLICE KIT. RUN HEAT TAPE FROM ELECTRICAL BOX TO PIPING IN QUESTION, WRAP HEAT TAPE PER MANUFACTURERS RECOMMENDATIONS INSIDE THE INSULATION JACKET. TERMINATE HEAT TAPE IN A RATED END SEAL KIT. HEAT TAPE SHALL BE SELF REGULATING AND RATED 5 WATTS/FT. THE SYSTEM SHALL TURN ON WHEN THE THERMOSTAT READS AMBIENT TEMPERATURES BELOW 35 DEG F.

ALTERED ON:	AFFIXED ON:
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JOSHUA ROBERT DOORES · No. 107076 · LICENSED PROFESSIONAL ENGINEER 9/29/2026

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

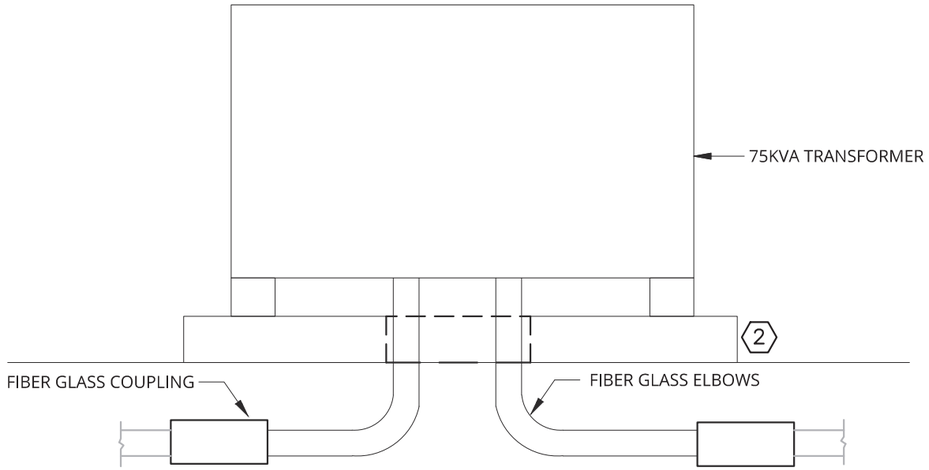
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DATE	DESCRIPTION	BY	SYM.

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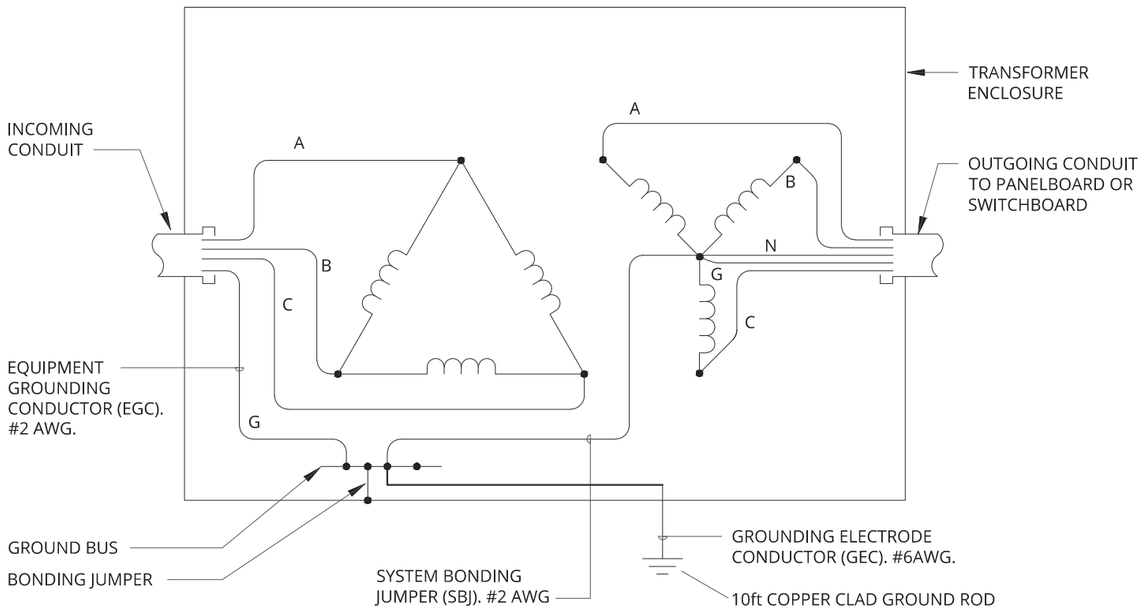
TITLE OF PROJECT REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING ELECTRICAL POWER FLOOR PLAN	DRAWING NUMBER: E-3

THIS SHEET DOES NOT SUPERSEDE ANY SHEET



TRANSFORMER ELEVATION DETAIL

SCALE NTS



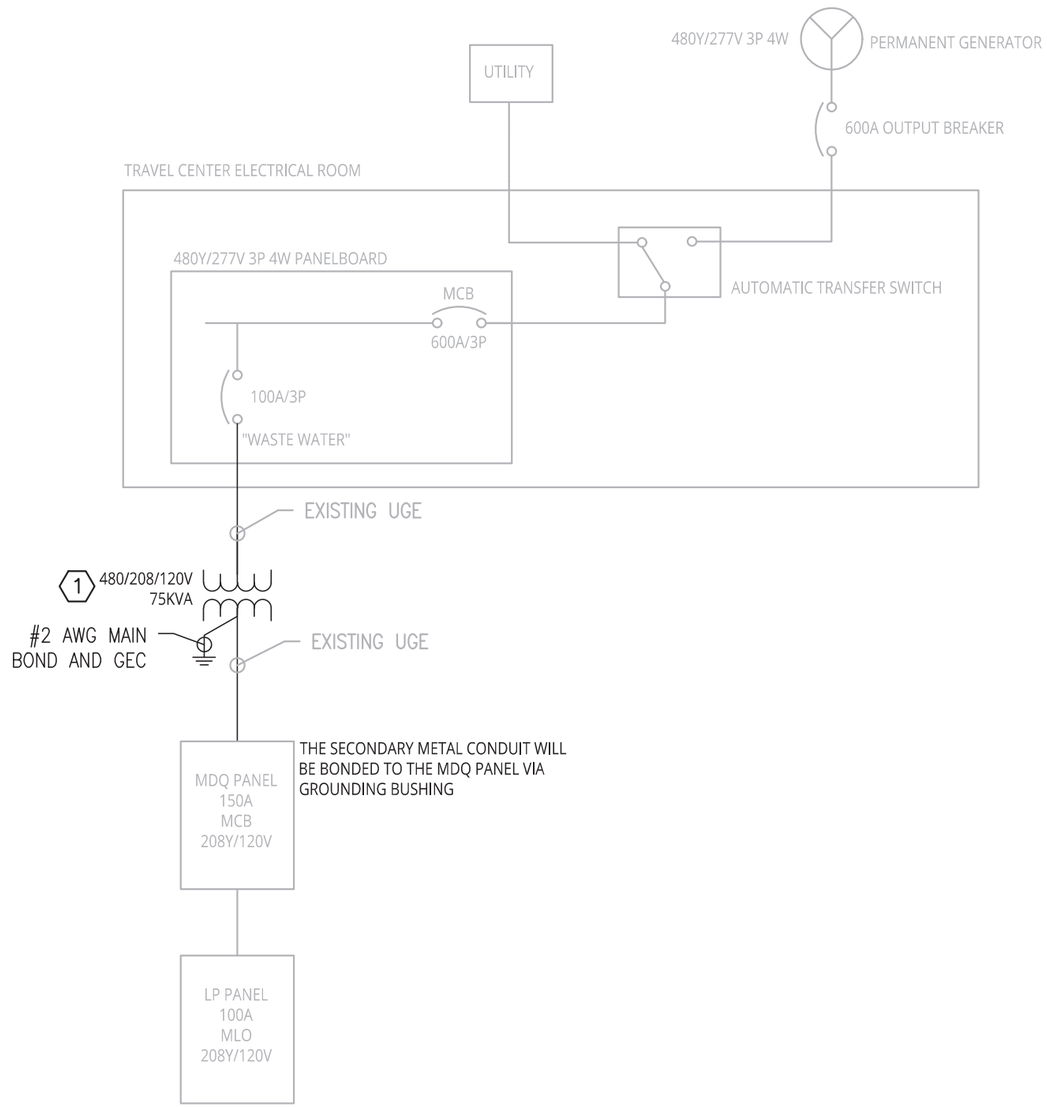
TYPICAL TRANSFORMER GROUNDING DETAIL

SCALE NTS

RENOVATION NOTES:

1. PROVIDE 75KVA TRANSFORMER AS SHOWN ON CONCRETE MAINTENANCE PAD. REUSE EXISTING CONDUIT AND WIRING. MEGGER TEST EXISTING WIRING TO VERIFY CONDITION OF WIRING. IF MEGGER TEST FAILS, NOTIFY ENGINEER OF RECORD. COORDINATE INSTALLATION OF TRANSFORMER AND PAD SIZE WITH CIVIL DRAWINGS AND OWNER. REPLACE CONDUIT ELBOWS AND STUBS WITH FIBERGLASS CONDUIT.

2. EC TO PROVIDE 30"X30"X4" 4000 PSIG OR BETTER CONCRETE PAD. SAWCUT OPENING IN PAD FOR CONDUIT STUBS. PROVIDE AT LEAST 6" OF COMPACTED CRUSHED STONE UNDERNEATH CONCRETE PAD.



ALTERED ON:	AFFIXED ON: 9/29/26
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK JOSHUA ROBERT DOORES LICENSED PROFESSIONAL ENGINEER No. 107076 9/29/2026

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

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LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 09/29/2026
TITLE OF DRAWING: ONELINE DIAGRAM	DRAWING NUMBER: E-5

PW:/
CHECKED BY: JRD
DRAFTED BY: DRA
DESIGNED BY: DRA
DESIGN SUPERVISOR: JBA/JRD

PW: /

DRAFTED BY: MNS

CHECKED BY: TMT

DESIGNED BY: MNS

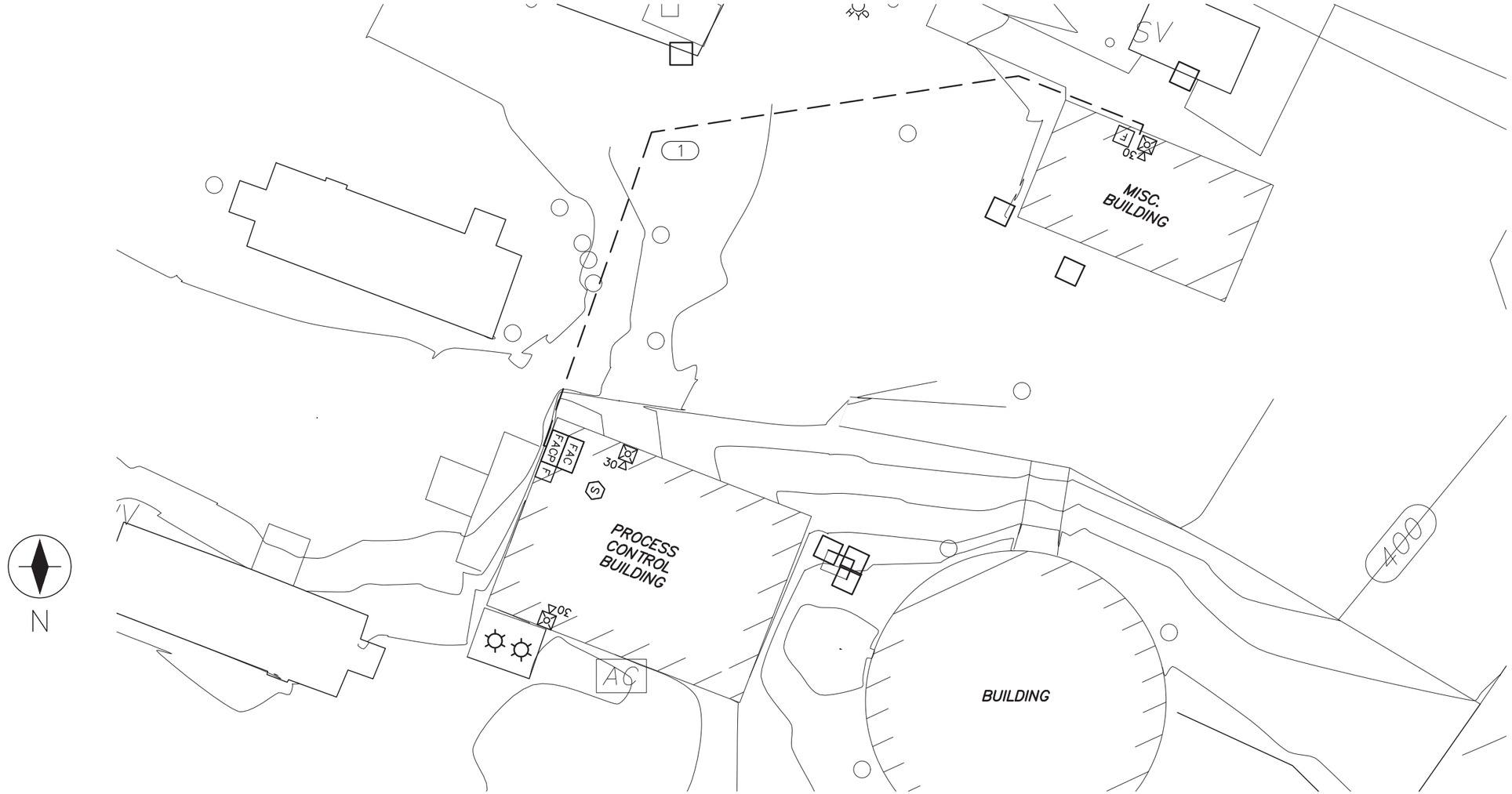
CHECKED BY: TMT

DESIGN SUPERVISOR: TMT

KEYED NOTES:

(1) UNDERGROUND CONDUIT FROM PUMP HOUSE FIRE ALARM CONTROL PANEL.

THIS SHEET SUPERSEDES SHEET 42



1 FA–101 **FIRE ALARM PLAN – OVERALL**
SCALE: 3/32" = 1'–0"

ALTERED ON:	AFFIXED ON: 08/31/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · TYLER M. TAMBLIN · LICENSED PROFESSIONAL ENGINEER · 102397

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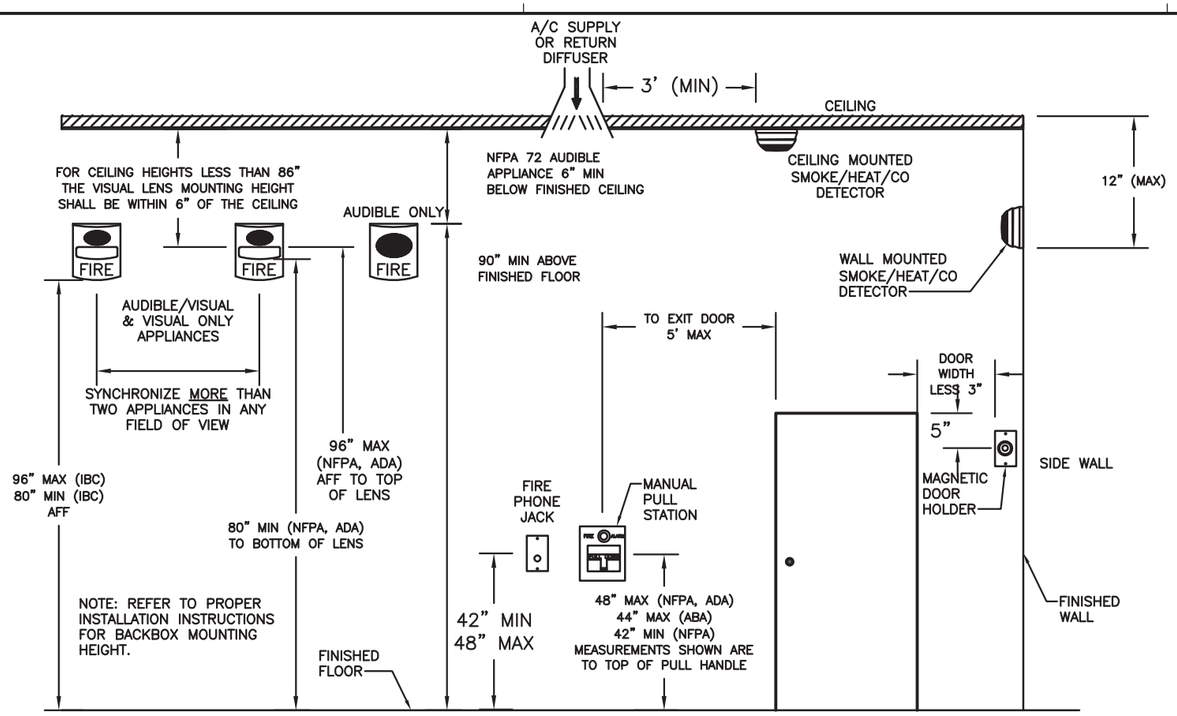
DATE	DESCRIPTION	BY	SYM.

RAN FIRE PROTECTION ENGINEERING
3495 WINTON PLACE, BLDG E SUITE 275 ROCHESTER, NY 14623
TEL: (585) 501-8619
FAX: (518) 275-0792
www.ranfpe.com

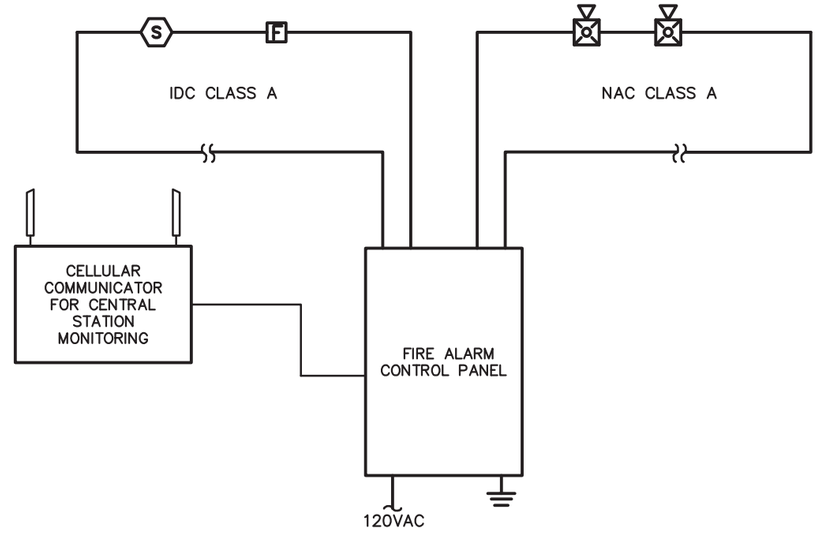
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TITLE OF PROJECT: REHABILITATION OF WASTEWATER TREATMENT PLANT	CONTRACT NUMBER: TAS 26-28A
LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/31/2026
TITLE OF DRAWING: FIRE ALARM PLAN	DRAWING NUMBER: FA–101



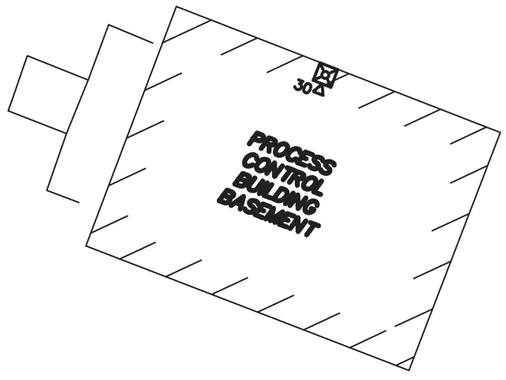
1 FA-502 **TYPICAL FIRE ALARM DEVICE MOUNTING**
SCALE: NOT TO SCALE



2 FA-502 **FIRE ALARM RISER DIAGRAM**
SCALE: NOT TO SCALE

FIRE ALARM RISER DIAGRAM NOTES:

1. REFER TO FLOOR PLAN FOR QUANTITIES & LOCATIONS OF ALL DEVICES.
2. FIRE ALARM SUPPLIER TO PROVIDE FULL SYSTEM RISER DIAGRAM FOR APPROVAL WITH SHOP DRAWING SUBMITTAL.
3. PROVIDE ALL INTERFACE MODULES & HARDWARE REQUIRED TO ACCOMMODATE DEVICES AS SHOWN, INCLUDING ALL APPLIANCES AND DEVICES.
4. COORDINATE EXACT FIRE ALARM SYSTEM WIRING INCLUDING SIZES, QUANTITIES & ROUTING WITH FIRE ALARM MANUFACTURER & SITE CONDITIONS.
5. WIRING INDICATED ON THE RISER DIAGRAM IS DIAGRAMMATIC ONLY & IS NOT INTENDED TO INDICATE ROUTING OR QUANTITIES OF WIRES REQUIRED. PROVIDE WIRING FOR A COMPLETE SYSTEM AS REQUIRED BY SYSTEM MANUFACTURER. ALL DEVICES MAY NOT BE INDICATED ON RISER DIAGRAM. REFER TO FLOOR PLAN FOR QUANTITIES & LOCATIONS OF DEVICES.
6. NOT ALL INTERCONNECTING WIRING IS INDICATED ON RISER DIAGRAM. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. CLASS A WIRING FOR DETECTION DEVICES AND AND NOTIFICATION APPLIANCES.
8. THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM IF DESIRED.
9. PROVIDE ALL REQUIRED POWER SUPPLY WIRING ON A DEDICATED CIRCUIT FOR THE FACP.
10. T-TAPPING SHALL NOT BE ALLOWED WITH CLASS A CIRCUITS.
11. COORDINATE 120V POWER AND EXACT LOCATION OF FACP WITH ELECTRICAL CONTRACTOR.



3 FA-502 **FIRE ALARM PLAN - BASEMENT**
SCALE: 3/32" = 1'-0"

PW: /
CHECKED BY: TMT
DRAFTED BY: MNS
DESIGNED BY: MNS
DESIGN SUPERVISOR: TMT

ALTERED ON:	AFFIXED ON: 08/31/26
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK TYLER M. TAMBLIN 102397 LICENSED PROFESSIONAL ENGINEER

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LOCATION OF PROJECT: MP 310.00 EASTBOUND PORT BYRON SERVICE AREA	DATE: 08/31/2026
TITLE OF DRAWING: FIRE ALARM DETAILS	DRAWING NUMBER: FA-502