

December 18th, 2024

Maddy Hetman
Environmental Program Specialist 1
Region 5 Division of Water
New York State Department of Environmental Conservation
1115 NYS Route 86, PO Box 296,
Ray Brook, NY 12977

**RE: 5-0942-00538/00001, NOIA, Production Facility KB4,
Plattsburgh (T), Clinton Co**

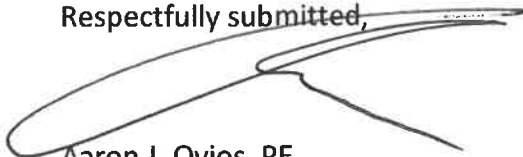
Dear Maddy Hetman:

In response to your December 11th, 2024 review comments with respect to the above referenced matter, we offer the following:

1. Please see revised testing on sheet C410 & C407.
2. Please see revised testing on sheet C411.
3. Depths are in feet, unit connotations have been revised for clarity.
4. Infiltration basin was designed to provide the required Design Volume one foot below the top of basin. Please see revised calculations on sheet C411.
5. Volume reduction from gravel was included in the Provided Volume calculations. Please see revised sheet C411.
6. Please see revised engineering report section 2.5.
7. Please see revised HydroCAD report for area and Runoff Volume calculations.
8. Please see full revised application attached.

We hope that this added information satisfies your concerns. To assist in your review, we have included a revised NY-2C application, Revised Project Plans, Influent Sampling Results, Consideration of Future Physical Climate Risk supplemental form, HydroCAD analysis, and revised Engineering Report. If you have any questions, or require additional information, please do not hesitate to contact our office.

Respectfully submitted,



Aaron J. Ovios, PE
Robert M. Sutherland, PC

| | | | |
|--|---|--|---|
| Form NY-2C PART I SPDES | NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation | New York State Department of Environmental Conservation Application for SPDES Permit to Discharge Wastewater GENERAL INFORMATION |
|--|---|--|---|

| | |
|---|--|
| SECTION 1. PERMIT ACTION REQUESTED | |
|---|--|

| | | |
|--------------------------------|-----|---|
| Permit Action Requested | 1.1 | What is the reason for submitting this application? |
| | | <input checked="" type="checkbox"/> A NEW proposed Discharge <input type="checkbox"/> An EBPS REQUEST FOR INFORMATION response <input type="checkbox"/> A RENEWAL of an existing permit <input type="checkbox"/> A MODIFICATION of the existing permit (describe below) <input type="checkbox"/> An EXISTING discharge currently without permit |
| | 1.2 | Increased Discharge Request |
| | | Is this application a request for an increase in the quantity of water discharged from your facility to the waters of the State? <input type="checkbox"/> Yes → Describe the increase: <input checked="" type="checkbox"/> No → Skip to Item 2.1 |

| | |
|--|--|
| SECTION 2. PERMITTEE & FACILITY NAME, LEGAL STATUS, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2)) | |
|--|--|

| | | | | |
|---|--|---|--------------------------------|-------------------|
| Permittee & Facility Name, Legal Status, Mailing Address, and Location | 2.1 | Permittee Name | | |
| | | UMS Property LLC | | |
| | 2.2 | Permittee Mailing Address | | |
| | | Street or P.O. box 194 Pleasant Ridge Road | | |
| | | City or town Plattsburgh | State NY | ZIP code 12901 |
| | 2.3 | Permittee Legal Status | | |
| | | <input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____ <input checked="" type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____ | | |
| | 2.4 | Facility Name | | |
| | | Production Facility KB4 | | |
| | 2.5 | NYSDEC Identification Number | | |
| | 5-0942-00538/00001 | | | |
| 2.6 | Facility Contact | | | |
| | Name (first and last) Matt Bokus | Title EH&S Manager | Phone number (518) 324-5639 | |
| | Email address MBokus@schluter.com | | | |
| 2.7 | Facility Location | | | |
| | Street, route number, or other specific identifier 26 Irish Settlement Road | | | |
| | County name Clinton | County code (if known) | | |
| | City or town Plattsburgh | State NY | ZIP code 12901 | |

| | | | |
|---|---------------------|--|-------------------------|
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|---|---------------------|--|-------------------------|

SECTION 7. MAP (40 CFR 122.21(f)(7))

| | | |
|-----|-----|---|
| Map | 7.1 | Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|-----|-----|---|

SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

| | | |
|--------------------|-----|---|
| Nature of Business | 8.1 | Describe the nature of your business. House the manufacturing of expanded foam products, storage of raw materials and finish goods, along with housing the secondary production of various products. |
|--------------------|-----|---|

SECTION 9. WATER SUPPLY & COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

| | | |
|---------------------------------|-----|--|
| Water Supply Source(s) | 9.1 | What water supply source(s) does your facility use? Identify the name or owner of each source. (check all that apply) <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Private Intake <input type="checkbox"/> Private Well <input type="checkbox"/> Other (specify) Owner: <u>Plattsburgh</u> |
| | 9.2 | Provide the amount of water typically consumed from each of these sources. Municipal 27,100.00 GPD Private Well MGD Private Intake MGD Other MGD |
| | 9.3 | Is the facility located within a sole source aquifer as shown on Exhibit 2C-6? <input type="checkbox"/> Yes → Complete Application Supplement B (see SPDES website) <input checked="" type="checkbox"/> No |
| Cooling Water Intake Structures | 9.4 | Does your facility use any of these water sources for cooling water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 10.1. |
| | 9.5 | Identify the sources used for cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J and NYSDEC Commissioner's Policy 52 (CP-52) may have additional application requirements. Consult with NYSDEC to determine if additional information is needed.) |
| Thermal Discharges | 9.6 | If your industry group is listed (see instructions), or the temperature of your discharge exceeds the receiving water temperature by greater than 3°F, provide the following data in (°F): Avg. Temp. Max Temp. Avg. Delta T Max Delta T |

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

| | | |
|-------------------|------|---|
| Variance Requests | 10.1 | Do you intend to request or renew one or more variances pursuant to 6 NYCRR 702.17 or authorized at 40 CFR 122.21(m)? (Check all that apply). Consult with NYSDEC to determine what information is needed. |
| | | <input type="checkbox"/> Fundamentally different factors (CWA Section 301(n)) <input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g)) <input type="checkbox"/> Thermal discharges (CWA Section 316(a)) <input type="checkbox"/> NYS WQBEL (6 NYCRR 702.17) <input checked="" type="checkbox"/> Not applicable |

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SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

| | | | |
|-------------------------|---|---|---|
| Part I Checklist | 11.1 | In Column 1 below, mark the sections of Form NY-2C Part I that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert NYSDEC. Note that not all applicants are required to provide attachments. | |
| | | Column 1 | Column 2 |
| | | <input checked="" type="checkbox"/> Section 1: Permit Action Requested | <input type="checkbox"/> w/ attachments |
| | | <input checked="" type="checkbox"/> Section 2: Name, Mailing Address, and Location | <input type="checkbox"/> w/ attachments |
| | | <input checked="" type="checkbox"/> Section 3: SIC Codes | <input type="checkbox"/> w/ attachments |
| | | <input checked="" type="checkbox"/> Section 4: Operator Information | <input type="checkbox"/> w/ attachments |
| | | <input checked="" type="checkbox"/> Section 5: Indian Land | <input type="checkbox"/> w/ attachments |
| | | <input checked="" type="checkbox"/> Section 6: Existing Environmental Permits | <input type="checkbox"/> w/ attachments |
| | | <input checked="" type="checkbox"/> Section 7: Map | <input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments |
| | | <input checked="" type="checkbox"/> Section 8: Nature of Business | <input type="checkbox"/> w/ attachments |
| | | <input checked="" type="checkbox"/> Section 9: Water Supply & CWIS | <input type="checkbox"/> w/ attachments <input type="checkbox"/> w/ Sole Source Aquifer Supplement |
| | | <input checked="" type="checkbox"/> Section 10: Variance Requests | <input type="checkbox"/> w/ attachments |
| | <input checked="" type="checkbox"/> Section 11: Checklist | <input type="checkbox"/> w/ attachments | |

PART II of Form NY-2C begins on the next page.

| | | |
|-----------------------------------|---|---|
| Form NY-2C PART II SPDES |  | New York State Department of Environmental Conservation Application for SPDES Permit to Discharge Wastewater NEW AND EXISTING INDUSTRIAL OPERATIONS DETAILED INFORMATION |
|-----------------------------------|---|---|

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1)) & RECEIVING WATER DESCRIPTION (6 NYCRR 750-1.7(a))

| | | | | |
|---|---|---|--------------------|----------------------|
| Outfall Location & Receiving Water Description | 1.1 | Provide information on each of the facility's outfalls and the receiving waters in the table below. | | |
| | | <u>Outfall 1</u> | <u>Outfall 2</u> | <u>Outfall _____</u> |
| | Latitude | 44 ° 39 ' 31" N | 44 ° 39 ' 23" N | ° ' " |
| | Longitude | 73 ° 29 ' 10" W | 73 ° 29 ' 20" W | ° ' " |
| | Receiving Water Name | | | |
| | Water Index Number (WIN) | | | |
| | Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment | | | |
| | Water Classification | GA | GA | |
| | Groundwater Discharges Only: | | | |
| | Soil Type | PtA (Hyd. Group A) | PtA (Hyd. Group A) | |
| Depth to Water Table | 20.00 ft | 20.00 ft | ft | |

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

| | | |
|---------------------|-----|---|
| Line Drawing | 2.1 | Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-3 at end of instructions for example.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|---------------------|-----|---|

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

| | | | | |
|------------------------------------|---|---|-----------------------------|---|
| Average Flows and Treatment | 3.1 | For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary. | | |
| | | **Outfall Number** 1 | | |
| | | Operations Contributing to Flow | | |
| | | Operation | Average Flow | Maximum Flow |
| | | Restroom Wastewater | 3,120.00 GPD | 3,120.00 GPD |
| | | Floor Wash | 650.00 GPD | 650.00 GPD |
| | | | MGD | MGD |
| | | | MGD | MGD |
| | | Treatment Units | | |
| | | Description (include size, flow rate through each treatment unit, retention time, etc.) | Code from Table 2C-1 | Final Disposal of Solid or Liquid Wastes Other Than by Discharge |
| | Bag Filter (Q=3800GPD) | 1-T | 0 GPD | |
| | Underground Injection (Q=3800GPD) | 4-D | 0 GPD | |
| | Settling Tanks (Q=3800GPD - Vtot=6,500 GAL) | 1-U | 0 GPD | |
| | Septic Tanks (Q=3800GPD - Vtot=4,000 GAL) | 1-U | 0 GPD | |

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

| Intermittent Flows | 4.1 | Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 5. | | | | | | |
|---------------------------|-----|---|------------------|-------------------|---------------------|-------------------|---------------|----------|
| | 4.2 | Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary. | | | | | | |
| | | Outfall Number | Operation (list) | Frequency | | Flow Rate | | Duration |
| | | | | Average Days/Week | Average Months/Year | Long-Term Average | Maximum Daily | |
| | | | | days/week | months/year | MGD | MGD | days |
| | | | | days/week | months/year | MGD | MGD | days |
| | | | | days/week | months/year | MGD | MGD | days |
| | | | | days/week | months/year | MGD | MGD | days |
| | | | | days/week | months/year | MGD | MGD | days |
| | | | | days/week | months/year | MGD | MGD | days |
| | | | days/week | months/year | MGD | MGD | days | |
| | | days/week | months/year | MGD | MGD | days | | |

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

| Applicable ELGs | 5.1 | Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 5.5. | | | |
|-------------------------------------|-----|---|---------------------------------|---------------------|-----------------|
| | 5.2 | Provide the following information on applicable ELGs. | | | |
| | | ELG Category | ELG Subcategory | Regulatory Citation | |
| | | | | | |
| Production-Based Limitations | 5.3 | Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 5.5. | | | |
| | 5.4 | Provide an actual measure of daily production expressed in terms and units of applicable ELGs. | | | |
| | | Outfall Number | Operation, Product, or Material | Quantity per Day | Unit of Measure |
| | | | | | |
| | | | | | |
| | | | | | |
| Specific Industry | 5.5 | Is your industry type listed as a specific industry requiring submission of a supplemental application form (see instructions)? <input type="checkbox"/> Yes, supplemental form attached <input checked="" type="checkbox"/> No → SKIP to Section 6. | | | |

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SECTION 6. SCHEDULED IMPROVEMENTS (40 CFR 122.21(g)(6))

| | | | | | | |
|----------------------------------|---|---|---|-------------------------------|-------------------------------|------------------|
| Upgrades and Improvements | 6.1 | Are you presently voluntarily improving or required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 6.3. | | | | |
| | 6.2 | Briefly identify each applicable project in the table below. | | | | |
| | | Brief Identification and Description of Project | Affected Outfalls (list outfall number) | Source(s) of Discharge | Final Compliance Dates | |
| | | | | | Required | Projected |
| | | | | | | |
| 6.3 | Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (optional item) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not applicable | | | | | |

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

| | | | | | |
|--|---|--|--|---------------------------------------|------------------------------------|
| Effluent and Intake Characteristics | See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table. | | | | |
| | Table A. Conventional and Non-Conventional Pollutants | | | | |
| | 7.1 | Are you requesting a waiver from NYSDEC for one or more of the Table A pollutants for any of your outfalls? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.3. | | | |
| | 7.2 | If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application. Outfall Number _____ Outfall Number _____ Outfall Number _____ | | | |
| | 7.3 | Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver request has been attached for all pollutants at all outfalls. | | | |
| | Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants | | | | |
| | 7.4 | Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-5? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.8. | | | |
| | 7.5 | Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| | 7.6 | List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-5. | | | |
| | | Primary Industry Category | Required GC/MS Fraction(s) (Check applicable boxes.) | | |
| | | <input type="checkbox"/> Volatile | <input type="checkbox"/> Acid | <input type="checkbox"/> Base/Neutral | <input type="checkbox"/> Pesticide |
| | | <input type="checkbox"/> Volatile | <input type="checkbox"/> Acid | <input type="checkbox"/> Base/Neutral | <input type="checkbox"/> Pesticide |
| | <input type="checkbox"/> Volatile | <input type="checkbox"/> Acid | <input type="checkbox"/> Base/Neutral | <input type="checkbox"/> Pesticide | |

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| | | | |
|---|--|--|----|
| Effluent and Intake Characteristics Continued | 7.7 | Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| | 7.8 | Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | 7.9 | Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | 7.10 | Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | Table C. Certain Conventional and Non-Conventional Pollutants | | |
| | 7.11 | Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | 7.12 | Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | Table D. Certain Hazardous Substances and Asbestos | | |
| | 7.13 | Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | 7.14 | Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD) | | |
| | 7.15 | Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? <input type="checkbox"/> Yes → Complete Table E. <input checked="" type="checkbox"/> No → SKIP to Section 8. | |
| | 7.16 | Have you completed Table E by reporting <i>qualitative</i> data for TCDD? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| | SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9)) | | |
| Used or Manufactured Toxics | 8.1 | Are any other pollutants, substances, or components of substances, not already listed in Tables A-E, used or manufactured at your facility as an intermediate or final product or byproduct? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9. | |
| | 8.2 | List the pollutants below. | |
| | 1. | 4. | 7. |
| | 2. | 5. | 8. |
| | 3. | 6. | 9. |

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SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

| | | | | | |
|----------------------------------|-----|---|---------------------------|--|-----------------------|
| Biological Toxicity Tests | 9.1 | Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 10. | | | |
| | 9.2 | Identify the tests and their purposes below. | | | |
| | | Test(s) | Purpose of Test(s) | Submitted to NYSDEC? | Date Submitted |
| | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

| | | | | | |
|--------------------------|------|--|----------------------------|----------------------------|----------------------------|
| Contract Analyses | 10.1 | Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 11. | | | |
| | 10.2 | Provide information for each contract laboratory or consulting firm below. | | | |
| | | | Laboratory Number 1 | Laboratory Number 2 | Laboratory Number 3 |
| | | Name of laboratory/firm | | | |
| | | ELAP Cert No. | | | |
| | | Laboratory address | | | |
| | | Phone number | | | |
| Pollutant(s) analyzed | | | | | |

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

| | | | | |
|-------------------------------|------|--|----|--|
| Additional Information | 11.1 | Does your facility use, produce, store, distribute, or otherwise dispose of any significant quantity of substances listed in Tables B, C, D, E or those substances identified in Item 8.2? <input type="checkbox"/> Yes → Complete Table G. <input checked="" type="checkbox"/> No → SKIP to Item 11.2. | | |
| | 11.2 | Does your facility utilize pumping stations to convey wastewaters on the site and/or in wastewater treatment? <input checked="" type="checkbox"/> Yes → Complete Table H. <input type="checkbox"/> No → SKIP to Item 11.3. | | |
| | 11.3 | Has NYSDEC requested additional information? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 12. | | |
| | 11.4 | List the information requested and attach it to this application. | | |
| | | 1. | 3. | |
| 2. | | 4. | | |

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

| | | | |
|-------------------------------------|---|-------------------------------------|---|
| 12.1 | In Column 1 below, mark the sections of Form NY-2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert NYSDEC. Note that not all applicants are required to complete all sections or provide attachments. | | |
| | Column 1 | Column 2 | |
| <input checked="" type="checkbox"/> | Section 1: Outfall Location | <input type="checkbox"/> | w/ attachments |
| <input checked="" type="checkbox"/> | Section 2: Line Drawing | <input checked="" type="checkbox"/> | w/ line drawing <input type="checkbox"/> w/ additional attachments |
| <input checked="" type="checkbox"/> | Section 3: Average Flows and Treatment | <input type="checkbox"/> | w/ attachments <input type="checkbox"/> w/ Simple MZ Form <input type="checkbox"/> w/ Table F <input type="checkbox"/> w/ Detailed MZ Form |
| <input checked="" type="checkbox"/> | Section 4: Intermittent Flows | <input type="checkbox"/> | w/ attachments |
| <input checked="" type="checkbox"/> | Section 5: Production | <input type="checkbox"/> | w/ attachments |
| <input checked="" type="checkbox"/> | Section 6: Improvements | <input type="checkbox"/> | w/ attachments <input type="checkbox"/> w/ optional additional sheets describing any additional pollution control plans |
| <input checked="" type="checkbox"/> | Section 7: Effluent and Intake Characteristics | <input type="checkbox"/> | w/ request for a waiver and supporting information <input type="checkbox"/> w/ explanation for identical outfalls <input type="checkbox"/> w/ primary industry supplemental form <input type="checkbox"/> w/ additional attachments <input checked="" type="checkbox"/> w/ Table A <input checked="" type="checkbox"/> w/ Table B <input checked="" type="checkbox"/> w/ Table C <input checked="" type="checkbox"/> w/ Table D <input checked="" type="checkbox"/> w/ Table E <input checked="" type="checkbox"/> w/ analytical results as an attachment |
| <input checked="" type="checkbox"/> | Section 8: Used or Manufactured Toxics | <input type="checkbox"/> | w/ attachments |
| <input checked="" type="checkbox"/> | Section 9: Biological Toxicity Tests | <input type="checkbox"/> | w/ attachments |
| <input checked="" type="checkbox"/> | Section 10: Contract Analyses | <input type="checkbox"/> | w/ attachments |
| <input checked="" type="checkbox"/> | Section 11: Additional Information | <input type="checkbox"/> | w/ attachments <input type="checkbox"/> w/ Table G <input checked="" type="checkbox"/> w/ Table H |
| <input checked="" type="checkbox"/> | Section 12: Checklist and Certification Statement | <input checked="" type="checkbox"/> | w/ attachments |

| | | | |
|------|---|----------------|--|
| 12.2 | <p>Certification Statement</p> <p><i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i></p> | | |
| | Name (print or type first and last name) | Official title | |
| | Matt Bokus | EH&S Manager | |
| | Signature | Date signed | |
| | <i>Matt Bokus</i> | 10/29/24 | |

Tables A - E are available in Part III of the application.

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 1 |

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii) & 40 CFR 122.21(e)&(g)(13))

| Pollutant | Waiver Requested (input "Yes" when applicable) | Units (specify) | Effluent | | | | Intake (Optional) | | |
|--|--|-----------------------------------|------------------------------------|--|--|--------------------|-------------------------|--------------------|-----|
| | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses | |
| Mark "X" in Cell A6 if you have attached a request to NYSDEC for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall. | | | | | | | | | |
| Section 1. | | | | | | | | | |
| 1. Biochemical oxygen demand (BOD ₅) ¹ | Yes | Concentration | 200 mg/L | 2.85 Kg | N/A | N/A | 0 | N/A | 1 |
| | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 2. Chemical oxygen demand (COD) ¹ | Yes | Concentration | 500 mg/L | 7.13 Kg | N/A | N/A | 0 | N/A | 1 |
| | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 3. Total organic carbon (TOC) ¹ | Yes | Concentration | 150 mg/L | 2.14 Kg | N/A | N/A | 0 | N/A | 1 |
| | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 4. Total suspended solids (TSS) ¹ | Yes | Concentration | 200 mg/L | 2.85 Kg | N/A | N/A | 0 | N/A | 1 |
| | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 5. Ammonia (as N) ¹ | Yes | Concentration | 40 mg/L | 0.57 Kg | N/A | N/A | 0 | N/A | 1 |
| | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 6. Flow ¹ | Yes | Rate | 3770 GPD | 3770 Gallons | N/A | N/A | 0 | N/A | 0 |
| 7. Temperature (winter) ¹ | No | °C | °C | 3770 Gallons | N/A | N/A | 0 | N/A | 0 |
| | | Temperature (summer) ¹ | °C | °C | 3770 Gallons | N/A | N/A | 0 | N/A |
| 8. pH (minimum) ¹ | Yes | Standard units | 8.31 SU | 8.31 SU | N/A | N/A | 0 | N/A | 1 |
| | | pH (maximum) ¹ | Yes | Standard units | 8.31 SU | 8.31 SU' | N/A | N/A | 0 |
| 9. Mercury ² | Yes | Concentration | 2 ng/L | 28.54 ug | N/A | N/A | 0 | N/A | 1 |
| | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 Analysis for Mercury must be performed utilizing the low-level, USEPA Method 1631E.

3 "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number | Primary SIC Code |
|---------------------------|---------------------|-------------------------|----------------|------------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 1 | |

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii) & 40 CFR 122.21(e)&(g)(13))

| Pollutant | Units (specify) | Effluent | | | | Intake (Optional) | |
|-----------|--------------------|---------------------------------------|---|---|--------------------|-------------------------|--------------------|
| | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |

Section 2.³

| | | | | | | | | | |
|-----|--|---------------|------------|----------|-----|----------|---|-----------|---|
| 1. | Perfluorobutanoic acid (PFBA) | Concentration | 0.702 ng/L | 10.02 ug | N/A | N/A | 0 | N/A | 1 |
| 2. | Perfluoropentanoic acid (PFPeA) | Concentration | 1.33 ng/L | 18.98 ug | N/A | N/A | 0 | N/A | 1 |
| 3. | Perfluorohexanoic acid (PFHxA) | Concentration | 1.59 ng/L | 22.69 ug | N/A | 16.12 ug | 0 | 1.13 ng/L | 2 |
| 4. | Perfluoroheptanoic acid (PFHpA) | Concentration | 2.44 ng/L | 34.82 ug | N/A | N/A | 0 | N/A | 1 |
| 5. | Perfluorooctanoic acid (PFOA) | Concentration | 3.18 ng/L | 45.38 ug | N/A | N/A | 0 | N/A | 1 |
| 6. | Perfluorononanoic acid (PFNA) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 7. | Perfluorodecanoic acid (PFDA) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 8. | Perfluoroundecanoic acid (PFUnA) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 9. | Perfluorododecanoic acid (PFDoA) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 10. | Perfluorotridecanoic acid (PFTriA) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 11. | Perfluorotetradecanoic acid (PFTeA) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 12. | Perfluorobutanesulfonic acid (PFBS) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 13. | Perfluoropentanesulfonic acid (PFPeS) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 14. | Perfluorohexanesulfonic acid (PFHxS) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 15. | Perfluoroheptanesulfonic Acid (PFHpS) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 16. | Perfluorooctanesulfonic acid (PFOS) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 17. | Perfluorononanesulfonic acid (PFNS) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 18. | Perfluorodecanesulfonic acid (PFDS) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 19. | Perfluorododecanesulfonic acid (PFDoS) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 20. | Perfluorooctanesulfonamide (FOSA) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 21. | NMeFOSAA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 22. | NEtFOSAA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 23. | 4:2 FTS | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 24. | 6:2 FTS | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 25. | 8:2 FTS | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 26. | NEtFOSA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 27. | NMeFOSA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 28. | NMeFOSE | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 29. | NEtFOSE | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 30. | 9CI-PF3ONS | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |

³ Analysis for the PFAS suite of compounds must be performed utilizing USEPA's draft analytical Method 1633.

⁴ "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number | Primary SIC Code |
|---------------------------|---------------------|-------------------------|----------------|------------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 1 | |

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii) & 40 CFR 122.21(e)&(g)(13))

| | Pollutant | Units (specify) | | Effluent | | | | Intake (Optional) | |
|-------------------------------|----------------|-----------------|---|------------------------------------|--|--|--------------------|-------------------------|--------------------|
| | | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 31. | HFPO-DA (GenX) | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 32. | 11CI-PF3OUdS | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 33. | ADONA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 34. | 3:3 FTCA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 35. | 5:3 FTCA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 36. | 7:3 FTCA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 37. | NFDHA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 38. | PFMBA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 39. | PFMPA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| 40. | PFEESA | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| Section 3.⁴ | | | | | | | | | |
| 1. | 1,4-Dioxane | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |

3 Analysis for the PFAS suite of compounds must be performed utilizing USEPA's draft analytical Method 1633.

4 Analysis for 1,4-Dioxane must be performed utilizing USEPA Method 8270E SIM or 8270D SIM.

5 A - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 1 |

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)1)

| Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence | | Units (specify) | Effluent | | | | Intake (optional) | |
|---|---------------------|--|---|--------------------|---|---|---|-----------------------|----------------------------|-----------------------|
| | | Believed Present (Input "Yes" or "No" only) | Believed Absent (Input "Yes" or "No" only) | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |

x Mark "X" in Cell A7 if you believe all pollutants on Table B to be absent in your discharge from the noted outfall. You need not check the "Believed Absent" box for each pollutant.

Section 1. Toxic Metals, Cyanide, and Total Phenols

| | | | | | | | | | | | | |
|------|------------------------------|-----|-----|-----|---------------|-----------|----------|-----|----------|---|-----------|---|
| 1.1 | Antimony, total (7440-36-0) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.2 | Arsenic, total (7440-38-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.3 | Beryllium, total (7440-41-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.4 | Cadmium, total (7440-43-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.5 | Chromium, total (7440-47-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.6 | Copper, total (7440-50-8) | Yes | Yes | No | Concentration | 0.28 mg/L | 4.00 g | N/A | 2.57 g | 0 | 0.18 mg/L | 5 |
| | | | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 1.7 | Lead, total (7439-92-1) | Yes | Yes | No | Concentration | 2.3 ug/L | 32.82 mg | N/A | 20.26 mg | 0 | 1.42 ug/L | 5 |
| | | | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 1.8 | Nickel, total (7440-02-0) | Yes | Yes | No | Concentration | 0.6 ug/L | 8.56 mg | N/A | N/A | 0 | N/A | 1 |
| | | | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 1.9 | Selenium, total (7782-49-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.10 | Silver, total (7440-22-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.11 | Thallium, total (7440-28-0) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.12 | Zinc, total (7440-66-6) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.13 | Cyanide, total (57-12-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.14 | Cyanide, free (57-12-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 1.15 | Phenols, total | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |

Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)

| | | | | | | | | | | | | |
|-----|--------------------------------|----|----|-----|---------------|---|---|-----|-----|---|-----|---|
| 2.1 | Acrolein (107-02-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.2 | Acrylonitrile (107-13-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.3 | Benzene (71-43-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.4 | Bromoform (75-25-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.5 | Carbon tetrachloride (56-23-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|--|---------------------------------------|----|----|-----|---------------|---|---|-----|-----|---|-----|---|
| 2.5 | Carbon tetrachloride (50-29-5) | No | No | Yes | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.6 | Chlorobenzene (108-90-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.7 | Chlorodibromomethane (124-48-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.8 | Chloroethane (75-00-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.9 | 2-chloroethylvinyl ether (110-75-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.10 | Chloroform (67-66-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.11 | Dichlorobromomethane (75-27-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.12 | 1,1-dichloroethane (75-34-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.13 | 1,2-dichloroethane (107-06-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.14 | 1,1-dichloroethylene (75-35-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.15 | 1,2-dichloropropane (78-87-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.16 | 1,3-dichloropropylene (542-75-6) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.17 | Ethylbenzene (100-41-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.18 | Methyl bromide (74-83-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.19 | Methyl chloride (74-87-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.20 | Methylene chloride (75-09-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.21 | 1,1,1,2-tetrachloroethane (79-34-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.22 | Tetrachloroethylene (127-18-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.23 | Toluene (108-88-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.24 | 1,2-trans-dichloroethylene (156-60-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.25 | 1,1,1-trichloroethane (71-55-6) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.26 | 1,1,2-trichloroethane (79-00-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.27 | Trichloroethylene (79-01-6) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2.28 | Vinyl chloride (75-01-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds) | | | | | | | | | | | | |
| 3.1 | 2-chlorophenol (95-57-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.2 | 2,4-dichlorophenol (120-83-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|---|--|----|----|-----|---------------|---|---|-----|-----|---|-----|---|
| 3.3 | 2,4-dimethylphenol (105-67-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.4 | 4,6-dinitro-o-cresol (534-52-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.5 | 2,4-dinitrophenol (51-28-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.6 | 2-nitrophenol (88-75-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.7 | 4-nitrophenol (100-02-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.8 | p-chloro-m-cresol (59-50-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.9 | Pentachlorophenol (87-86-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.10 | Phenol (108-95-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3.11 | 2,4,6-trichlorophenol (88-05-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds) | | | | | | | | | | | | |
| 4.1 | Acenaphthene (83-32-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.2 | Acenaphthylene (208-96-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.3 | Anthracene (120-12-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.4 | Benzidine (92-87-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.5 | Benzo (a) anthracene (56-55-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.6 | Benzo (a) pyrene (50-32-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.7 | 3,4-benzofluoranthene (205-99-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.8 | Benzo (ghi) perylene (191-24-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.9 | Benzo (k) fluoranthene (207-08-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.10 | Bis (2-chloroethoxy) methane (111-91-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.11 | Bis (2-chloroethyl) ether (111-44-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.12 | Bis (2-chloroisopropyl) ether (102-80-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.13 | Bis (2-ethylhexyl) phthalate (117-81-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.14 | 4-bromophenyl phenyl ether (101-55-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.15 | Butyl benzyl phthalate (85-68-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.16 | 2-chloronaphthalene (91-58-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.17 | 4-chlorophenyl phenyl ether (7005-72-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|------|--|----|----|-----|---------------|---|---|-----|-----|---|-----|---|
| 4.17 | 4-chlorophenyl phenyl ether (100-12-0) | No | No | Yes | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.18 | Chrysene (218-01-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.19 | Dibenzo (a,h) anthracene (53-70-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.20 | 1,2-dichlorobenzene (95-50-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.21 | 1,3-dichlorobenzene (541-73-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.22 | 1,4-dichlorobenzene (106-46-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.23 | 3,3-dichlorobenzidine (91-94-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.24 | Diethyl phthalate (84-66-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.25 | Dimethyl phthalate (131-11-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.26 | Di-n-butyl phthalate (84-74-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.27 | 2,4-dinitrotoluene (121-14-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.28 | 2,6-dinitrotoluene (606-20-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.29 | Di-n-octyl phthalate (117-84-0) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.30 | 1,2-Diphenylhydrazine (as azobenzene) (122-66-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.31 | Fluoranthene (206-44-0) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.32 | Fluorene (86-73-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.33 | Hexachlorobenzene (118-74-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.34 | Hexachlorobutadiene (87-68-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.35 | Hexachlorocyclopentadiene (77-47-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.36 | Hexachloroethane (67-72-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.37 | Indeno (1,2,3-cd) pyrene (193-39-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.38 | Isophorone (78-59-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.39 | Naphthalene (91-20-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.40 | Nitrobenzene (98-95-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.41 | N-nitrosodimethylamine (62-75-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.42 | N-nitrosodi-n-propylamine (621-64-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.43 | N-nitrosodiphenylamine (86-30-6) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|--|--|----|----|-----|---------------|---|---|-----|-----|---|-----|---|
| 4.43 | 1-(1H-imidazo[5,1-b]pyridin-2-yl)ethan-1-amine (00-00-0) | No | No | Yes | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.44 | Phenanthrene (85-01-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.45 | Pyrene (129-00-0) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4.46 | 1,2,4-trichlorobenzene (120-82-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides) | | | | | | | | | | | | |
| 5.1 | Aldrin (309-00-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.2 | α-BHC (319-84-6) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.3 | β-BHC (319-85-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.4 | γ-BHC (58-89-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.5 | δ-BHC (319-86-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.6 | Chlordane (57-74-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.7 | 4,4'-DDT (50-29-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.8 | 4,4'-DDE (72-55-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.9 | 4,4'-DDD (72-54-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.10 | Dieldrin (60-57-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.11 | α-endosulfan (115-29-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.12 | β-endosulfan (115-29-7) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.13 | Endosulfan sulfate (1031-07-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.14 | Endrin (72-20-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.15 | Endrin aldehyde (7421-93-4) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.16 | Heptachlor (76-44-8) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.17 | Heptachlor epoxide (1024-57-3) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.18 | PCB-1242 (53469-21-9) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.19 | PCB-1254 (11097-69-1) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.20 | PCB-1221 (11104-28-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.21 | PCB-1232 (11141-16-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.22 | PCB-1248 (12672-29-6) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|------|-----------------------|----|----|-----|---------------|---|---|-----|-----|---|-----|---|
| 5.23 | PCB-1260 (11096-82-5) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.24 | PCB-1016 (12674-11-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5.25 | Toxaphene (8001-35-2) | No | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |

- 1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).
- 2 Analysis for Total Recoverable Mercury must be performed utilizing the low-level, USEPA Method 1631E.
- 3 A - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 1 |

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

| Pollutant/Parameter (and CAS Number, if available) | Presence or Absence | | Units (specify) | Effluent | | | | Intake (Optional) | | |
|---|--|---|--------------------|---------------------------------------|---|---|--------------------|-------------------------|--------------------|---|
| | Believed Present (Input "Yes" or "No" only) | Believed Absent (Input "Yes" or "No" only) | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses | |
| Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> check the "Believed Present" box for each pollutant. | | | | | | | | | | |
| Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> check the "Believed Absent" box for each pollutant. | | | | | | | | | | |
| 1. Bromide (24959-67-9) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 2. Chlorine, total residual | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 3. Color | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 4. Fecal coliform | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 5. Fluoride (16984-48-8) | Yes | No | Concentration | 0.4 mg/L | 5.71 g | N/A | 5.49 g | 0 | 0.385 mg/L | 2 |
| | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 6. Nitrate-nitrite | Yes | No | Concentration | 0.19 mg/L | 2.71 g | N/A | N/A | 0 | N/A | 1 |
| | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 7. Nitrogen, total organic (as N) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 8. Oil and grease | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 9. Phosphorus (as P), total (7723-14-0) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 10. Sulfate (as SO ₄) (14808-79-8) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 11. Sulfide (as S) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 12. Sulfite (as SO ₃) (14265-45-3) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 13. Surfactants | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 14. Aluminum, total (7429-90-5) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 15. Barium, total (7440-39-3) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 16. Boron, total (7440-42-8) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 17. Cobalt, total (7440-48-4) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 18. Iron, total (7439-89-6) | Yes | No | Concentration | 10 ug/L | 142.69 mg | N/A | N/A | 0 | N/A | 1 |
| | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | |
|-----|-------------------------------|----|-----|---------------|---|---|-----|-----|---|-----|---|
| 19. | Magnesium, total (7439-95-4) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 20. | Molybdenum, total (7439-98-7) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 21. | Manganese, total (7439-96-5) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 22. | Tin, total (7440-31-5) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 23. | Titanium, total (7440-32-6) | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| 24. | Radioactivity | | | | | | | | | | |
| | Alpha, total | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| | Beta, total | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| | Radium, total | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |
| | Radium 226, total | No | Yes | Concentration | A | A | N/A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | N/A | N/A | 0 | N/A | 0 |

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 A - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 1 |

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)1

| | Pollutant | Presence or Absence | | Reason Pollutant Believed Present in Discharge | Available Quantitative Data (specify units) |
|-----|--|---|--|--|--|
| | | Believed Present (Input "Yes" or "No" only) | Believed Absent (Input "Yes" or "No" only) | | |
| 1. | Asbestos | No | Yes | A | 0 |
| 2. | Acetaldehyde | No | Yes | A | 0 |
| 3. | Allyl alcohol | No | Yes | A | 0 |
| 4. | Allyl chloride | No | Yes | A | 0 |
| 5. | Amyl acetate | No | Yes | A | 0 |
| 6. | Aniline | No | Yes | A | 0 |
| 7. | Benzonitrile | No | Yes | A | 0 |
| 8. | Benzyl chloride | No | Yes | A | 0 |
| 9. | Butyl acetate | No | Yes | A | 0 |
| 10. | Butylamine | No | Yes | A | 0 |
| 11. | Captan | No | Yes | A | 0 |
| 12. | Carbaryl | No | Yes | A | 0 |
| 13. | Carbofuran | No | Yes | A | 0 |
| 14. | Carbon disulfide | No | Yes | A | 0 |
| 15. | Chlorpyrifos | No | Yes | A | 0 |
| 16. | Coumaphos | No | Yes | A | 0 |
| 17. | Cresol | No | Yes | A | 0 |
| 18. | Crotonaldehyde | No | Yes | A | 0 |
| 19. | Cyclohexane | No | Yes | A | 0 |
| 20. | 2,4-D (2,4-dichlorophenoxyacetic acid) | No | Yes | A | 0 |
| 21. | Diazinon | No | Yes | A | 0 |
| 22. | Dicamba | No | Yes | A | 0 |
| 23. | Dichlobenil | No | Yes | A | 0 |
| 24. | Dichlone | No | Yes | A | 0 |
| 25. | 2,2-dichloropropionic acid | No | Yes | A | 0 |
| 26. | Dichlorvos | No | Yes | A | 0 |
| 27. | Diethyl amine | No | Yes | A | 0 |
| 28. | Dimethyl amine | No | Yes | A | 0 |
| 29. | Dintrobenzene | No | Yes | A | 0 |
| 30. | Diquat | No | Yes | A | 0 |
| 31. | Disulfoton | No | Yes | A | 0 |
| 32. | Diuron | No | Yes | A | 0 |
| 33. | Epichlorohydrin | No | Yes | A | 0 |

| | | | | | |
|-----|--|----|-----|---|---|
| 34. | Ethion | No | Yes | A | 0 |
| 35. | Ethylene diamine | No | Yes | A | 0 |
| 36. | Ethylene dibromide | No | Yes | A | 0 |
| 37. | Formaldehyde | No | Yes | A | 0 |
| 38. | Furfural | No | Yes | A | 0 |
| 39. | Guthion | No | Yes | A | 0 |
| 40. | Isoprene | No | Yes | A | 0 |
| 41. | Isopropanolamine | No | Yes | A | 0 |
| 42. | Kelthane | No | Yes | A | 0 |
| 43. | Kepone | No | Yes | A | 0 |
| 44. | Malathion | No | Yes | A | 0 |
| 45. | Mercaptodimethur | No | Yes | A | 0 |
| 46. | Methoxychlor | No | Yes | A | 0 |
| 47. | Methyl mercaptan | No | Yes | A | 0 |
| 48. | Methyl methacrylate | No | Yes | A | 0 |
| 49. | Methyl parathion | No | Yes | A | 0 |
| 50. | Mevinphos | No | Yes | A | 0 |
| 51. | Mexacarbate | No | Yes | A | 0 |
| 52. | Monoethyl amine | No | Yes | A | 0 |
| 53. | Monomethyl amine | No | Yes | A | 0 |
| 54. | Naled | No | Yes | A | 0 |
| 55. | Naphthenic acid | No | Yes | A | 0 |
| 56. | Nitrotoluene | No | Yes | A | 0 |
| 57. | Parathion | No | Yes | A | 0 |
| 58. | Phenolsulfonate | No | Yes | A | 0 |
| 59. | Phosgene | No | Yes | A | 0 |
| 60. | Propargite | No | Yes | A | 0 |
| 61. | Propylene oxide | No | Yes | A | 0 |
| 62. | Pyrethrins | No | Yes | A | 0 |
| 63. | Quinoline | No | Yes | A | 0 |
| 64. | Resorcinol | No | Yes | A | 0 |
| 65. | Strontium | No | Yes | A | 0 |
| 66. | Strychnine | No | Yes | A | 0 |
| 67. | Styrene | No | Yes | A | 0 |
| 68. | 2,4,5-T (2,4,5-trichlorophenoxyacetic acid) | No | Yes | A | 0 |
| 69. | TDE (tetrachlorodiphenyl ethane) | No | Yes | A | 0 |
| 70. | 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic | No | Yes | A | 0 |
| 71. | Trichlorofon | No | Yes | A | 0 |
| 72. | Triethanolamine | No | Yes | A | 0 |
| 73. | Triethylamine | No | Yes | A | 0 |
| 74. | Trimethylamine | No | Yes | A | 0 |
| 75. | Uranium | No | Yes | A | 0 |

| | | | | | |
|-----|---------------|----|-----|---|---|
| 76. | Vanadium | No | Yes | A | 0 |
| 77. | Vinyl acetate | No | Yes | A | 0 |
| 78. | Xylene | No | Yes | A | 0 |
| 79. | Xylenol | No | Yes | A | 0 |
| 80. | Zirconium | No | Yes | A | 0 |

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 A - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 1 |

TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

| Pollutant | TCDD Congeners Used or Manufactured | Presence or Absence | | Results of Screening Procedure |
|--------------|-------------------------------------|--|---|--------------------------------|
| | | Believed Present (Input "Yes" or "No" only) | Believed Absent (Input "Yes" or "No" only) | |
| 2,3,7,8-TCDD | N/A | No | Yes | N/A |

1 "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 2 |

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii) & 40 CFR 122.21(e)&(g)(13))

| Pollutant | Waiver Requested (input "Yes" when applicable) | Units (specify) | Effluent | | | | Intake (Optional) | | | |
|--|---|-----------------------------------|---------------------------------------|---|---|--------------------|-------------------------|--------------------|---|---|
| | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses | | |
| Mark "X" in Cell A6 if you have attached a request to NYSDEC for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall. | | | | | | | | | | |
| Section 1. | | | | | | | | | | |
| 1. Biochemical oxygen demand (BOD5) ¹ | No | Concentration | A | A | A | N/A | 0 | | 0 | |
| | | Mass | A | A | A | N/A | 0 | | 0 | |
| 2. Chemical oxygen demand (COD) ¹ | No | Concentration | A | A | A | N/A | 0 | | 0 | |
| | | Mass | A | A | A | N/A | 0 | | 0 | |
| 3. Total organic carbon (TOC) ¹ | No | Concentration | A | A | A | N/A | 0 | | 0 | |
| | | Mass | A | A | A | N/A | 0 | | 0 | |
| 4. Total suspended solids (TSS) ¹ | No | Concentration | A | A | A | N/A | 0 | | 0 | |
| | | Mass | A | A | A | N/A | 0 | | 0 | |
| 5. Ammonia (as N) ¹ | No | Concentration | A | A | A | N/A | 0 | | 0 | |
| | | Mass | A | A | A | N/A | 0 | | 0 | |
| 6. Flow ¹ | Yes | Rate | 15173 GPD | 15173 Gallons | 470370 Gallons | N/A | 0 | | 0 | |
| 7. | No | Temperature (winter) ¹ | °C | °C | 15173 Gallons | 470370 Gallons | N/A | 0 | | 0 |
| | | Temperature (summer) ¹ | °C | °C | 15173 Gallons | 470370 Gallons | N/A | 0 | | 0 |
| 8. | Yes | pH (minimum) ¹ | Standard units | 8.31 SU | 8.31 SU | 8.31 SU | N/A | 0 | | 1 |
| | Yes | pH (maximum) ¹ | Standard units | 8.31 SU | 8.31 SU | 8.31 SU | N/A | 0 | | 1 |
| 9. Mercury ² | No | Concentration | A | A | A | N/A | 0 | | 0 | |
| | | Mass | A | A | A | N/A | 0 | | 0 | |

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 Analysis for Mercury must be performed utilizing the low-level, USEPA Method 1631E.

3 "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number | Primary SIC Code |
|---------------------------|---------------------|-------------------------|----------------|------------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 2 | |

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii) & 40 CFR 122.21(e)&(g)(13))

| Pollutant | Units (specify) | Effluent | | | | Intake (Optional) | | |
|--|--------------------|--|---|---|-----------------------|----------------------------|-----------------------|---|
| | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses | |
| Section 2.³ | | | | | | | | |
| 1. Perfluorobutanoic acid (PFBA) | Concentration | 1.053 ng/L | 60.47 ug | 1.87 mg | N/A | 0 | N/A | 1 |
| 2. Perfluoropentanoic acid (PFPeA) | Concentration | 2.00 ng/L | 114.86 ug | 3.56 mg | N/A | 0 | N/A | 1 |
| 3. Perfluorohexanoic acid (PFHxA) | Concentration | 2.39 ng/L | 137.26 ug | 4.26 mg | 97.63 ug | 0 | 1.70 ng/L | 2 |
| 4. Perfluoroheptanoic acid (PFHpA) | Concentration | 3.66 ng/L | 210.19 ug | 6.52 mg | N/A | 0 | N/A | 1 |
| 5. Perfluorooctanoic acid (PFOA) | Concentration | 4.77 ng/L | 273.94 ug | 8.49 mg | N/A | 0 | N/A | 1 |
| 6. Perfluorononanoic acid (PFNA) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 7. Perfluorodecanoic acid (PFDA) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 8. Perfluoroundecanoic acid (PFUnA) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 9. Perfluorododecanoic acid (PFDoA) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 10. Perfluorotridecanoic acid (PFTriA) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 11. Perfluorotetradecanoic acid (PFTeA) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 12. Perfluorobutanesulfonic acid (PFBS) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 13. Perfluoropentanesulfonic acid (PFPeS) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 14. Perfluorohexanesulfonic acid (PFHxS) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 15. Perfluoroheptanesulfonic Acid (PFHpS) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 16. Perfluorooctanesulfonic acid (PFOS) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 17. Perfluorononanesulfonic acid (PFNS) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 18. Perfluorodecanesulfonic acid (PFDS) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 19. Perfluorododecanesulfonic acid (PFDoS) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 20. Perfluorooctanesulfonamide (FOSA) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 21. NMeFOSAA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 22. NEtFOSAA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 23. 4:2 FTS | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 24. 6:2 FTS | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 25. 8:2 FTS | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 26. NEtFOSA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 27. NMeFOSA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 28. NMeFOSE | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 29. NEtFOSE | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 30. 9Cl-PF3ONS | Concentration | A | A | A | N/A | 0 | N/A | 0 |

³ Analysis for the PFAS suite of compounds must be performed utilizing USEPA's draft analytical Method 1633.

⁴ "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number | Primary SIC Code |
|---------------------------|---------------------|-------------------------|----------------|------------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 2 | |

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii) & 40 CFR 122.21(e)&(g)(13))

| | Pollutant | Units (specify) | | Effluent | | | | Intake (Optional) | |
|-------------------------------|----------------|-----------------|---|------------------------------------|--|--|--------------------|-------------------------|--------------------|
| | | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 31. | HFPO-DA (GenX) | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 32. | 11CI-PF3OUdS | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 33. | ADONA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 34. | 3:3 FTCA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 35. | 5:3 FTCA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 36. | 7:3 FTCA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 37. | NFDHA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 38. | PFMBA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 39. | PFMPA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| 40. | PFEESA | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| Section 3.⁴ | | | | | | | | | |
| 1. | 1,4-Dioxane | Concentration | A | A | A | N/A | 0 | N/A | 0 |

3 Analysis for the PFAS suite of compounds must be performed utilizing USEPA's draft analytical Method 1633.

4 Analysis for 1,4-Dioxane must be performed utilizing USEPA Method 8270E SIM or 8270D SIM.

5 "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 2 |

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

| x | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence | | Units (specify) | Effluent | | | | Intake (optional) | | |
|--|--|---------------------|--|---|--------------------|---|---|---|-----------------------|----------------------------|-----------------------|---|
| | | | Believed Present (Input "Yes" or "No" only) | Believed Absent (Input "Yes" or "No" only) | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses | |
| x | Mark "X" in Cell A7 if you believe all pollutants on Table B to be absent in your discharge from the noted outfall. You need not check the "Believed Absent" box for each pollutant. | | | | | | | | | | | |
| Section 1. Toxic Metals, Cyanide, and Total Phenols | | | | | | | | | | | | |
| 1.1 | Antimony, total (7440-36-0) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.2 | Arsenic, total (7440-38-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.3 | Beryllium, total (7440-41-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.4 | Cadmium, total (7440-43-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.5 | Chromium, total (7440-47-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.6 | Copper, total (7440-50-8) | Yes | Yes | No | Concentration | 0.42 mg/L | 24.12 g | 747.75 g | 15.51 g | 0 | 0.27 mg/L | 5 |
| | | | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 1.7 | Lead, total (7439-92-1) | Yes | Yes | No | Concentration | 3.45 ug/L | 198.13 mg | 6.14 g | 122.33 mg | 0 | 2.13 ug/L | 5 |
| | | | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 1.8 | Nickel, total (7440-02-0) | Yes | Yes | No | Concentration | 0.90 ug/L | 51.69 mg | N/A | N/A | 0 | N/A | 1 |
| | | | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 1.9 | Selenium, total (7782-49-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.10 | Silver, total (7440-22-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.11 | Thallium, total (7440-28-0) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.12 | Zinc, total (7440-66-6) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.13 | Cyanide, total (57-12-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.14 | Cyanide, free (57-12-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 1.15 | Phenols, total | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds) | | | | | | | | | | | | |
| 2.1 | Acrolein (107-02-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.2 | Acrylonitrile (107-13-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.3 | Benzene (71-43-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.4 | Bromoform (75-25-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|--|---------------------------------------|----|----|-----|---------------|---|---|---|-----|---|-----|---|
| 2.5 | Carbon tetrachloride (56-23-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.6 | Chlorobenzene (108-90-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.7 | Chlorodibromomethane (124-48-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.8 | Chloroethane (75-00-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.9 | 2-chloroethylvinyl ether (110-75-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.10 | Chloroform (67-66-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.11 | Dichlorobromomethane (75-27-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.12 | 1,1-dichloroethane (75-34-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.13 | 1,2-dichloroethane (107-06-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.14 | 1,1-dichloroethylene (75-35-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.15 | 1,2-dichloropropane (78-87-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.16 | 1,3-dichloropropylene (542-75-6) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.17 | Ethylbenzene (100-41-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.18 | Methyl bromide (74-83-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.19 | Methyl chloride (74-87-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.20 | Methylene chloride (75-09-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.21 | 1,1,2,2-tetrachloroethane (79-34-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.22 | Tetrachloroethylene (127-18-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.23 | Toluene (108-88-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.24 | 1,2-trans-dichloroethylene (156-60-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.25 | 1,1,1-trichloroethane (71-55-6) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.26 | 1,1,2-trichloroethane (79-00-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.27 | Trichloroethylene (79-01-6) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2.28 | Vinyl chloride (75-01-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds) | | | | | | | | | | | | |
| 3.1 | 2-chlorophenol (95-57-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|---|--|----|----|-----|---------------|---|---|---|-----|---|-----|---|
| 3.2 | 2,4-dichlorophenol (120-83-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.3 | 2,4-dimethylphenol (105-67-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.4 | 4,6-dinitro-o-cresol (534-52-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.5 | 2,4-dinitrophenol (51-28-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.6 | 2-nitrophenol (88-75-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.7 | 4-nitrophenol (100-02-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.8 | p-chloro-m-cresol (59-50-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.9 | Pentachlorophenol (87-86-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.10 | Phenol (108-95-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3.11 | 2,4,6-trichlorophenol (88-05-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds) | | | | | | | | | | | | |
| 4.1 | Acenaphthene (83-32-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.2 | Acenaphthylene (208-96-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.3 | Anthracene (120-12-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.4 | Benzidine (92-87-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.5 | Benzo (a) anthracene (56-55-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.6 | Benzo (a) pyrene (50-32-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.7 | 3,4-benzofluoranthene (205-99-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.8 | Benzo (ghi) perylene (191-24-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.9 | Benzo (k) fluoranthene (207-08-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.10 | Bis (2-chloroethoxy) methane (111-91-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.11 | Bis (2-chloroethyl) ether (111-44-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.12 | Bis (2-chloroisopropyl) ether (102-80-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.13 | Bis (2-ethylhexyl) phthalate (117-81-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.14 | 4-bromophenyl phenyl ether (101-55-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.15 | Butyl benzyl phthalate (85-68-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|------|--|----|----|-----|---------------|---|---|---|-----|---|-----|---|
| 4.16 | 2-chloronaphthalene (91-58-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.17 | 4-chlorophenyl phenyl ether (7005-72-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.18 | Chrysene (218-01-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.19 | Dibenzo (a,h) anthracene (53-70-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.20 | 1,2-dichlorobenzene (95-50-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.21 | 1,3-dichlorobenzene (541-73-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.22 | 1,4-dichlorobenzene (106-46-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.23 | 3,3-dichlorobenzidine (91-94-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.24 | Diethyl phthalate (84-66-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.25 | Dimethyl phthalate (131-11-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.26 | Di-n-butyl phthalate (84-74-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.27 | 2,4-dinitrotoluene (121-14-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.28 | 2,6-dinitrotoluene (606-20-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.29 | Di-n-octyl phthalate (117-84-0) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.30 | 1,2-Diphenylhydrazine (as azobenzene) (122-66-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.31 | Fluoranthene (206-44-0) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.32 | Fluorene (86-73-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.33 | Hexachlorobenzene (118-74-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.34 | Hexachlorobutadiene (87-68-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.35 | Hexachlorocyclopentadiene (77-47-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.36 | Hexachloroethane (67-72-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.37 | Indeno (1,2,3-cd) pyrene (193-39-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.38 | Isophorone (78-59-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.39 | Naphthalene (91-20-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.40 | Nitrobenzene (98-95-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.41 | N,N-dimethylethylamine (62-75-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | | |
|--|--------------------------------------|----|----|-----|---------------|---|---|---|-----|---|-----|---|
| 4.41 | N-nitrosodimethylamine (62-10-9) | No | No | Yes | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.42 | N-nitrosodi-n-propylamine (621-64-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.43 | N-nitrosodiphenylamine (86-30-6) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.44 | Phenanthrene (85-01-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.45 | Pyrene (129-00-0) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4.46 | 1,2,4-trichlorobenzene (120-82-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides) | | | | | | | | | | | | |
| 5.1 | Aldrin (309-00-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.2 | α-BHC (319-84-6) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.3 | β-BHC (319-85-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.4 | γ-BHC (58-89-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.5 | δ-BHC (319-86-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.6 | Chlordane (57-74-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.7 | 4,4'-DDT (50-29-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.8 | 4,4'-DDE (72-55-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.9 | 4,4'-DDD (72-54-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.10 | Dieldrin (60-57-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.11 | α-endosulfan (115-29-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.12 | β-endosulfan (115-29-7) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.13 | Endosulfan sulfate (1031-07-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.14 | Endrin (72-20-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.15 | Endrin aldehyde (7421-93-4) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.16 | Heptachlor (76-44-8) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.17 | Heptachlor epoxide (1024-57-3) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.18 | PCB-1242 (53469-21-9) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.19 | PCB-1254 (11097-69-1) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.20 | PCB-1221 (11104-28-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |

| 5.20 | PCB-1221 (11104-20-2) | No | No | Yes | Mass | A | A | A | N/A | 0 | N/A | 0 |
|------|-----------------------|----|----|-----|---------------|---|---|---|-----|---|-----|---|
| 5.21 | PCB-1232 (11141-16-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.22 | PCB-1248 (12672-29-6) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.23 | PCB-1260 (11096-82-5) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.24 | PCB-1016 (12674-11-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5.25 | Toxaphene (8001-35-2) | No | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 Analysis for Total Recoverable Mercury must be performed utilizing the low-level, USEPA Method 1631E.

3 "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 2 |

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

| Pollutant/Parameter (and CAS Number, if available) | Presence or Absence | | Units (specify) | Effluent | | | | Intake (Optional) | | |
|---|--|---|--------------------|---------------------------------------|---|---|--------------------|-------------------------|--------------------|---|
| | Believed Present (Input "Yes" or "No" only) | Believed Absent (Input "Yes" or "No" only) | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses | |
| Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> check the "Believed Present" box for each pollutant. | | | | | | | | | | |
| Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> check the "Believed Absent" box for each pollutant. | | | | | | | | | | |
| 1. Bromide (24959-67-9) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 2. Chlorine, total residual | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 3. Color | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 4. Fecal coliform | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 5. Fluoride (16984-48-8) | Yes | No | Concentration | 0.60 mg/L | 34.46 g | 1.07 kg | 33.19 g | 0 | 0.578 mg/L | 2 |
| | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 6. Nitrate-nitrite | Yes | No | Concentration | 0.29 mg/L | 16.65 g | 516.30 g | N/A | 0 | N/A | 1 |
| | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |
| 7. Nitrogen, total organic (as N) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 8. Oil and grease | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 9. Phosphorus (as P), total (7723-14-0) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 10. Sulfate (as SO ₄) (14808-79-8) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 11. Sulfide (as S) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 12. Sulfite (as SO ₃) (14265-45-3) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 13. Surfactants | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 14. Aluminum, total (7429-90-5) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 15. Barium, total (7440-39-3) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 16. Boron, total (7440-42-8) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 17. Cobalt, total (7440-48-4) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 18. Iron, total (7439-89-6) | Yes | No | Concentration | 15 ug/L | 861.45 mg | 26.71 g | N/A | 0 | N/A | 1 |
| | | | Mass | N/A | N/A | N/A | N/A | 0 | N/A | 0 |

| | | | | | | | | | | | |
|-----|-------------------------------|----|-----|---------------|---|---|---|-----|---|-----|---|
| 19. | Magnesium, total (7439-95-4) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 20. | Molybdenum, total (7439-98-7) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 21. | Manganese, total (7439-96-5) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 22. | Tin, total (7440-31-5) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 23. | Titanium, total (7440-32-6) | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| 24. | Radioactivity | | | | | | | | | | |
| | Alpha, total | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| | Beta, total | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| | Radium, total | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |
| | Radium 226, total | No | Yes | Concentration | A | A | A | N/A | 0 | N/A | 0 |
| | | | | Mass | A | A | A | N/A | 0 | N/A | 0 |

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 2 |

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(viii)1

| | Pollutant | Presence or Absence | | Reason Pollutant Believed Present in Discharge | Available Quantitative Data (specify units) |
|-----|--|---|--|--|--|
| | | Believed Present (Input "Yes" or "No" only) | Believed Absent (Input "Yes" or "No" only) | | |
| 1. | Asbestos | No | Yes | N/A | 0 |
| 2. | Acetaldehyde | No | Yes | N/A | 0 |
| 3. | Allyl alcohol | No | Yes | N/A | 0 |
| 4. | Allyl chloride | No | Yes | N/A | 0 |
| 5. | Amyl acetate | No | Yes | N/A | 0 |
| 6. | Aniline | No | Yes | N/A | 0 |
| 7. | Benzonitrile | No | Yes | N/A | 0 |
| 8. | Benzyl chloride | No | Yes | N/A | 0 |
| 9. | Butyl acetate | No | Yes | N/A | 0 |
| 10. | Butylamine | No | Yes | N/A | 0 |
| 11. | Captan | No | Yes | N/A | 0 |
| 12. | Carbaryl | No | Yes | N/A | 0 |
| 13. | Carbofuran | No | Yes | N/A | 0 |
| 14. | Carbon disulfide | No | Yes | N/A | 0 |
| 15. | Chlorpyrifos | No | Yes | N/A | 0 |
| 16. | Coumaphos | No | Yes | N/A | 0 |
| 17. | Cresol | No | Yes | N/A | 0 |
| 18. | Crotonaldehyde | No | Yes | N/A | 0 |
| 19. | Cyclohexane | No | Yes | N/A | 0 |
| 20. | 2,4-D (2,4-dichlorophenoxyacetic acid) | No | Yes | N/A | 0 |
| 21. | Diazinon | No | Yes | N/A | 0 |
| 22. | Dicamba | No | Yes | N/A | 0 |
| 23. | Dichlobenil | No | Yes | N/A | 0 |
| 24. | Dichlone | No | Yes | N/A | 0 |
| 25. | 2,2-dichloropropionic acid | No | Yes | N/A | 0 |
| 26. | Dichlorvos | No | Yes | N/A | 0 |
| 27. | Diethyl amine | No | Yes | N/A | 0 |
| 28. | Dimethyl amine | No | Yes | N/A | 0 |
| 29. | Dintrobenzene | No | Yes | N/A | 0 |
| 30. | Diquat | No | Yes | N/A | 0 |
| 31. | Disulfoton | No | Yes | N/A | 0 |
| 32. | Diuron | No | Yes | N/A | 0 |

| | | | | | |
|-----|--|----|-----|-----|---|
| 33. | Epichlorohydrin | No | Yes | N/A | 0 |
| 34. | Ethion | No | Yes | N/A | 0 |
| 35. | Ethylene diamine | No | Yes | N/A | 0 |
| 36. | Ethylene dibromide | No | Yes | N/A | 0 |
| 37. | Formaldehyde | No | Yes | N/A | 0 |
| 38. | Furfural | No | Yes | N/A | 0 |
| 39. | Guthion | No | Yes | N/A | 0 |
| 40. | Isoprene | No | Yes | N/A | 0 |
| 41. | Isopropanolamine | No | Yes | N/A | 0 |
| 42. | Kelthane | No | Yes | N/A | 0 |
| 43. | Kepone | No | Yes | N/A | 0 |
| 44. | Malathion | No | Yes | N/A | 0 |
| 45. | Mercaptodimethur | No | Yes | N/A | 0 |
| 46. | Methoxychlor | No | Yes | N/A | 0 |
| 47. | Methyl mercaptan | No | Yes | N/A | 0 |
| 48. | Methyl methacrylate | No | Yes | N/A | 0 |
| 49. | Methyl parathion | No | Yes | N/A | 0 |
| 50. | Mevinphos | No | Yes | N/A | 0 |
| 51. | Mexacarbate | No | Yes | N/A | 0 |
| 52. | Monoethyl amine | No | Yes | N/A | 0 |
| 53. | Monomethyl amine | No | Yes | N/A | 0 |
| 54. | Naled | No | Yes | N/A | 0 |
| 55. | Naphthenic acid | No | Yes | N/A | 0 |
| 56. | Nitrotoluene | No | Yes | N/A | 0 |
| 57. | Parathion | No | Yes | N/A | 0 |
| 58. | Phenolsulfonate | No | Yes | N/A | 0 |
| 59. | Phosgene | No | Yes | N/A | 0 |
| 60. | Propargite | No | Yes | N/A | 0 |
| 61. | Propylene oxide | No | Yes | N/A | 0 |
| 62. | Pyrethrins | No | Yes | N/A | 0 |
| 63. | Quinoline | No | Yes | N/A | 0 |
| 64. | Resorcinol | No | Yes | N/A | 0 |
| 65. | Strontium | No | Yes | N/A | 0 |
| 66. | Strychnine | No | Yes | N/A | 0 |
| 67. | Styrene | No | Yes | N/A | 0 |
| 68. | 2,4,5-T (2,4,5-trichlorophenoxyacetic acid) | No | Yes | N/A | 0 |
| 69. | TDE (tetrachlorodiphenyl ethane) | No | Yes | N/A | 0 |
| 70. | 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic | No | Yes | N/A | 0 |
| 71. | Trichlorofon | No | Yes | N/A | 0 |
| 72. | Triethanolamine | No | Yes | N/A | 0 |
| 73. | Triethylamine | No | Yes | N/A | 0 |
| 74. | Trimethylamine | No | Yes | N/A | 0 |

| | | | | | |
|-----|---------------|----|-----|-----|---|
| 75. | Uranium | No | Yes | N/A | 0 |
| 76. | Vanadium | No | Yes | N/A | 0 |
| 77. | Vinyl acetate | No | Yes | N/A | 0 |
| 78. | Xylene | No | Yes | N/A | 0 |
| 79. | Xylenol | No | Yes | N/A | 0 |
| 80. | Zirconium | No | Yes | N/A | 0 |

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 "A" - Believed to be Absent ; "N/A" - Not Applicable

| DEC Identification Number | SPDES Permit Number | Facility Name | Outfall Number |
|---------------------------|---------------------|-------------------------|----------------|
| 5-0942-00538/00001 | | Production Facility KB4 | 2 |

TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

| Pollutant | TCDD Congeners Used or Manufactured | Presence or Absence | | Results of Screening Procedure |
|--------------|-------------------------------------|--|---|--------------------------------|
| | | Believed Present (Input "Yes" or "No" only) | Believed Absent (Input "Yes" or "No" only) | |
| 2,3,7,8-TCDD | N/A | No | Yes | N/A |

1 "A" - Believed to be Absent ; "N/A" - Not Applicable

DEC Identification Number
5-0942-00538/00001

SPDES Permit Number

Facility Name
Production Facility KB4

Form Approved: 7/3/2024

TABLE F. WATER TREATMENT CHEMICAL LISTING

| WTC Trade Name | Manufacturer | WTC Function | Authorized Dosage (lbs/d) | | Discharge Outfall | Authorized Date | New or Increase Request (optional) |
|---|--------------|--------------|---------------------------|---------|---|-----------------|---|
| | | | Average | Maximum | | | |
| For all New or Increased WTCs, you must attach a completed WTC Request Form | | | | | <input type="checkbox"/> No new or increased WTC requests included as part of this application. | | |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
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| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |
| | | | | | | | <input type="checkbox"/> New <input type="checkbox"/> Increase |

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| | | |
|---|---------------------|--|
| DEC Identification Number 5-0942-00538/00001 | SPDES Permit Number | Facility Name Production Facility KB4 |
|---|---------------------|--|

TABLE G. INDUSTRIAL CHEMICAL SURVEY

| Substance Name | CAS Number | Purpose of Use Code | Average Annual Usage | Amount On Hand | Presence in Discharge | Discharge Outfall |
|----------------|------------|---------------------|----------------------|----------------|-----------------------|-------------------|
|----------------|------------|---------------------|----------------------|----------------|-----------------------|-------------------|

Complete this table for all substances that have been used, produced, stored, distributed or otherwise disposed of in significant quantity AND for any quantity of BCCs, chemicals for which FDA fish flesh limits exist, or restricted pesticide products listed in Part 326, Section 2 of the ECL. Restricted pesticides also include those products whose labeling bears the statement "Restricted Use Pesticide." Do not include chemicals that are present as *de minimus* concentrations as listed in the SDS for that substance.

For any substance listed that is used in a manner which could cause them to come into contact with a wastewater that is ultimately discharged to the waters of the State through an outfall controlled by this permit application, identify it as "Present" and the Outfall(s) by which it may be discharged. Sampling results for these pollutants should also be included with Tables B-E.

A separate, but equivalent table has been attached as part of this application.

| | | | | | | |
|--|--|----------------|-----|-----|--|--|
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |
| | | PRO - Produced | Gal | Gal | <input type="checkbox"/> Present <input type="checkbox"/> Not Present | |

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DEC Identification Number

SPDES Permit Number

Facility Name
Production Facility KB4








Form Approved: 7/3/2024

TABLE H. FACILITY & COLLECTION SYSTEM RESILIENCY

| Pump Station Name | PS Owner | General Location | Latitude (DMS) | Longitude (DMS) | Floor Elevation (ft, NAVD88) |
|-------------------|----------|------------------|----------------|-----------------|------------------------------|
|-------------------|----------|------------------|----------------|-----------------|------------------------------|

Complete this table for all pump stations that exist at the wastewater treatment facility and within the collection system. Identify the name of the pump station, the owner of the pump station (if different than the SPDES permittee), the general location of the pump station (e.g. intersection of Green St. & Water St.), the latitude and longitude of the pump station in degrees-minutes-seconds (DMS) format, and the elevation in feet of the pump station floor (per the NAVD88 datum).

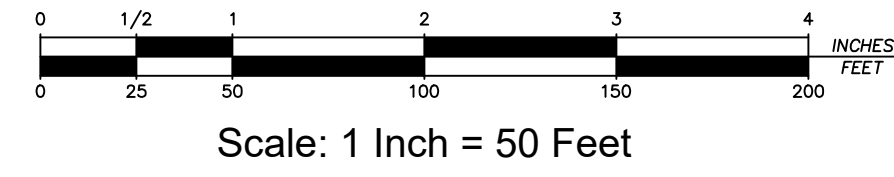
The wastewater treatment facility and collection system do not contain any pump stations.

| | | | | | |
|---|-----|---|---|---|--------|
| 1 | UMS | West of Building | 44 ° 39 ' 29.47 "  | 73 ° 29 ' 17.17 "  | 250.75 |
| 2 | UMS | East of Building - Covered Ar | 44 ° 39 ' 25.16 "  | 73 ° 29 ' 9.62 "  | 248.18 |
| 4 | UMS | East of Building - Septic Field  | 44 ° 39 ' 32.17 "  | 73 ° 29 ' 9.55 "  | 254.12 |
| | | | ° ' " | ° ' " | |
| | | | ° ' " | ° ' " | |
| | | | ° ' " | ° ' " | |
| | | | ° ' " | ° ' " | |
| | | | ° ' " | ° ' " | |
| | | | ° ' " | ° ' " | |
| | | | ° ' " | ° ' " | |

DEEP HOLE #3:
 BY AJO ON 05/15/2023
 EXISTING GRADE: 259.00'
 0' - 6" BLACK TOP SOIL
 6" - 28" RED BROWN SANDY LOAM
 28" - 72" TAN SANDY LOAM

DEEP HOLE #4:
 BY LABELLA ON 07/10/2023
 EXISTING GROUND: 261.00'
 0 - 8 FT FINE SAND WITH GRAVEL
 8 - 27 FT FINE SAND
 27 - 40 FT BROWN FINE SAND
 40 - 50 FT FINE SILTY SAND W/ GRAVEL
 >50 FT GRAY TILL
 SATURATED ELEVATION: 240.00'
 BEDROCK ELEVATION: 215.00'
 PR. BASIN BOTTOM: ~260.00'
 DEPTH TO GROUNDWATER: 20.00 FT
 DEPTH TO BEDROCK: 45.00 FT
 PERCOLATION TEST RATE #17-19:
 BY AJO ON 09/15/2023
 ELEVATION: 260.00' +/-
 TIME = 2.5 MINUTES/INCH

PERCOLATION TEST RATE #9-16:
 BY AJO ON 09/15/2023
 TIME = 3 MINUTES/INCH



These plans and details are the Approved Detailed Preliminary Plans for construction of UMS Property, LLC for a New Production Facility Site Plan 2023

As per planning board resolution No. _____, dated _____, 2023. These detailed preliminary site plans and details are certified to be in compliance with Planning Board conditions.

Town Planning Department _____ Date _____

Tim Palmer
 planning board chairman _____ Date _____

As-built construction drawings in accordance with article vii section 7.12 of the town of plattsburgh zoning ordinance shall be prepared and accepted by the town of plattsburgh prior to the issuance of a certificate of occupancy.

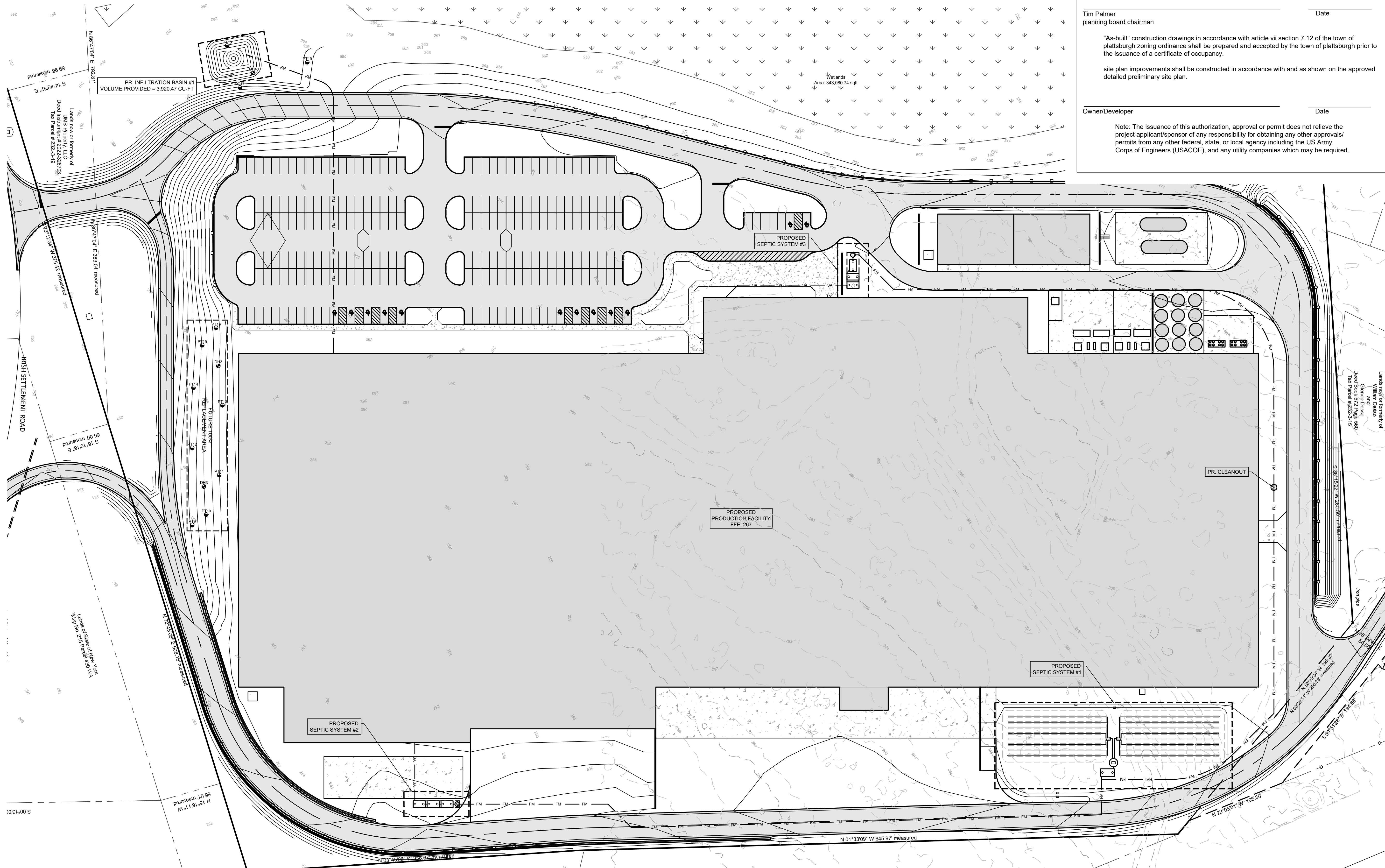
site plan improvements shall be constructed in accordance with and as shown on the approved detailed preliminary site plan.

Owner/Developer _____ Date _____

Note: The issuance of this authorization, approval or permit does not relieve the project applicant/sponsor of any responsibility for obtaining any other approvals/permits from any other federal, state, or local agency including the US Army Corps of Engineers (USACOE), and any utility companies which may be required.

Legend:

- Found property evidence (as described)
- Computed corner
- Fire Hydrant
- Drainage manhole
- Catch basin round
- Catch basin square
- Well
- ⊕ Telephone pedestal
- ⋈ Water Valve
- ⊙ Light pole
- Utility pole
- ↓ Guy anchor
- Sign
- Fence post
- Bollard
- ⊕ Gas marker
- ⊙ Gas meter
- ⊕ Gas valve
- GAS — Underground Gas
- UGE — Underground Electric
- OH — Overhead Electric
- SA — Sanitary Sewer
- ST — Stormwater
- UGT — Underground Telecommunication
- w — Waterline
- Existing fence
- Property line
- Adjoineer property line

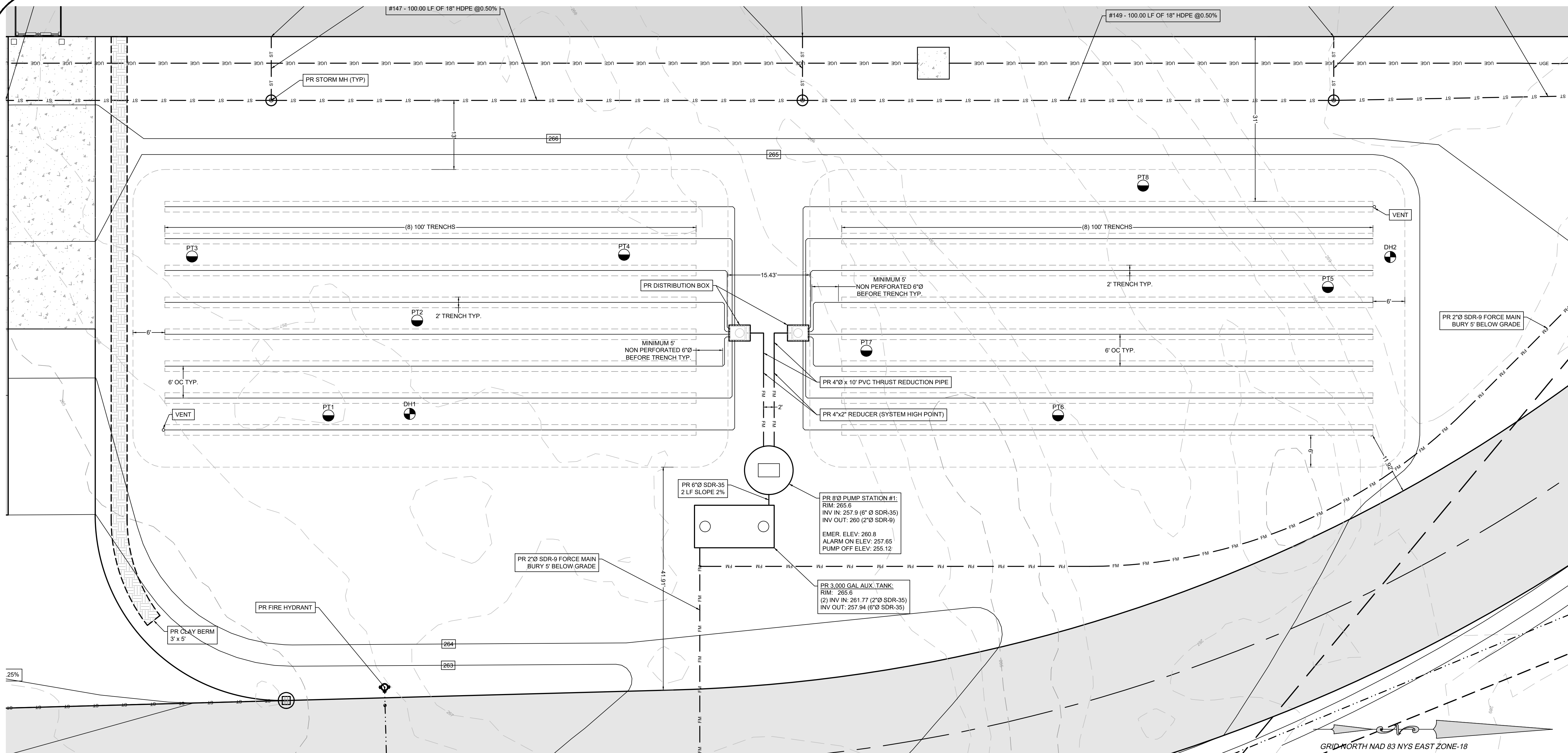


| | | |
|-----|----------------|------------|
| 1 | RFI Pre-003 | 4/18/2024 |
| 2 | SPDES NOIA | 12/03/2024 |
| 3 | SPDES NOIA | 12/12/2024 |
| No. | Revision/Issue | Date |

RMS
 ROBERT M. SUTHERLAND P.C.
 ENGINEERS • PLANNERS • SURVEYORS
 SOIL & MATERIAL TESTING
 11 MACDONOUGH STREET, PLATTSBURGH, NY 12901
 518.561.6145(PH) 518.561.2496 (FX)
 R M S P C . C O O

Project Name & Address
 UMS Property, L.L.C.
 showing
 New Production Facility
 Site Plan 2023
 ~ Situate ~
 Clinton County Town of Plattsburgh State of New York

| | | | |
|-----------|------------|---------|---------------------------------|
| Project # | 21025 | Sheet | Proposed Sanitary Sewer Key Map |
| Date | 10/14/2024 | | C406 |
| Scale | 1" = 50' | | |
| Drawn | LSC/TJS | Checked | AJO |



- Legend:**
- Found property evidence (as described)
 - Computed corner
 - Fire Hydrant
 - ⊙ Drainage manhole
 - ⊙ Catch basin round
 - ⊙ Catch basin square
 - ⊙ Well
 - ⊙ Telephone pedestal
 - ⊙ Water Valve
 - ⊙ Light pole
 - ⊙ Utility pole
 - ⊙ Guy anchor
 - ⊙ Sign
 - Fence post
 - Bollard
 - ⊙ Gas marker
 - ⊙ Gas meter
 - ⊙ Gas valve
 - GAS — Underground Gas
 - UGE — Underground Electric
 - OH — Overhead Electric
 - SA — Sanitary Sewer
 - ST — Stormwater
 - UGT — Underground Telecommunication
 - w — Waterline
 - ⊙ Existing fence
 - Property line
 - Adjoinder property line

DEEP HOLE #1:
 BY AJO ON 05/15/2023
 EXISTING GRADE: 269.00'
 0' - 6" BLACK TOP SOIL
 6' - 24" RED BROWN SANDY LOAM
 24' - 72" TAN SANDY LOAM

DEEP HOLE #2:
 BY AJO ON 05/15/2023
 EXISTING GRADE: 269.00'
 0' - 4" BLACK TOP SOIL
 4' - 26" RED BROWN SANDY LOAM
 26' - 72" TAN SANDY LOAM

PER LABELLA 7/10/2023
 GROUNDWATER @ EL: 244.00'
 BEDROCK @ EL: 214.00'

PERCOLATION TEST RATE #1-4:
 BY AJO ON 05/15/2023
 TIME = 2 MINUTES/INCH

PERCOLATION TEST RATE #5-8:
 BY AJO ON 05/15/2023
 TIME = 2.5 MINUTES/INCH

TOTAL DESIGN FLOW DATA

SYSTEM SIZING

± 200 EMPLOYEES @ 15 GPD/EMPLOYEE
 LOW FLOW FIXTURE = 20% REDUCTION OR 12 GPD
 ± 200 EMPLOYEES X 12 GPD = 2,400 GPD

ADDITIONAL 500 GPD FOR AUTOMATIC FLOOR CLEANING SYSTEM

FUTURE GROWTH 30%

TOTAL = 30% (2,900 GPD) = 3,770 GPD REQUIRED
 3,800 GPD DESIGNED

SEPTIC TANK SIZING

3,800 GPD X 1.5 = 5,700 GAL. (USE 6,000 GAL. SEPTIC TANK)

LEACH FIELD SIZING

APPLICATION RATE = DESIGN FLOW RATE / 1.20 GPD/SF
 AREA REQ. = 3,800 GPD / 1.20 GPD/SF = 3,200 SQUARE FEET
 LATERAL LENGTH REQ. = 3,200 SF / 2FT WIDTH = 1,600 LINEAR FEET

TRENCH SYSTEM SIZE

TWO LEACHING AREAS OF 8 LATERALS BY 100FT = 1,600 LINEAR FEET PROPOSED

NOTE:
 ABSORPTION TRENCH SYSTEM TOTALING OVER 1,000 LINEAR FEET REQUIRE
 ALTERNATING PRESSURE-DOSED GRAVITY DISTRIBUTION.

SYSTEM #1 DESIGN-LOADING FACTORS

VOLUME OF DOSE = 75% TO 85% OF DISTRIBUTION PIPE VOLUME
 TRENCH = 8 LINES X 100 LF EACH X 0.2 SF = 160 CF
 = 120 CF TO 136 CF (897 TO 1,017 GALLONS)
 FORCE MAIN = 14.5 LF X 0.022 SF = 0.32 CF
 = 0.24 CF TO 0.27 CF (1.79 TO 2 GALLONS)

TOTAL DOSE VOLUME ≈ 899 TO 1,019 GALLONS

MAX 3 DOSE PER FIELD PER DAY OR A TOTAL OF 6 DOSE PER DAY
 3,800 GPD / 6 DOSE PER DAY = 633.3 GALLONS PER DOSE

SINCE 634 GALLON < 899 GALLONS -> 899 GALLONS = MINIMUM DOSE

SET TO DOSE ~ 950 GALLONS PER FIELD ALTERNATING FIELDS EVERY 6 HRS

EQUIVALENT TO 3,800 GPD

PUMP #1 DESIGN, HEAD-LOSS, (FRICTION) CALCULATIONS

$$H_f = (10.44)(L) \frac{(V_{gpm})^{1.85}}{(C)^{1.85}(4.86955)^{4.86955}}$$

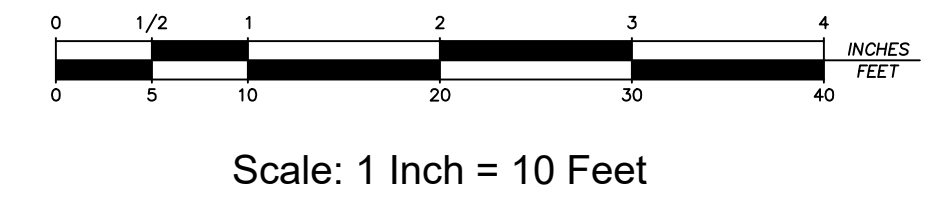
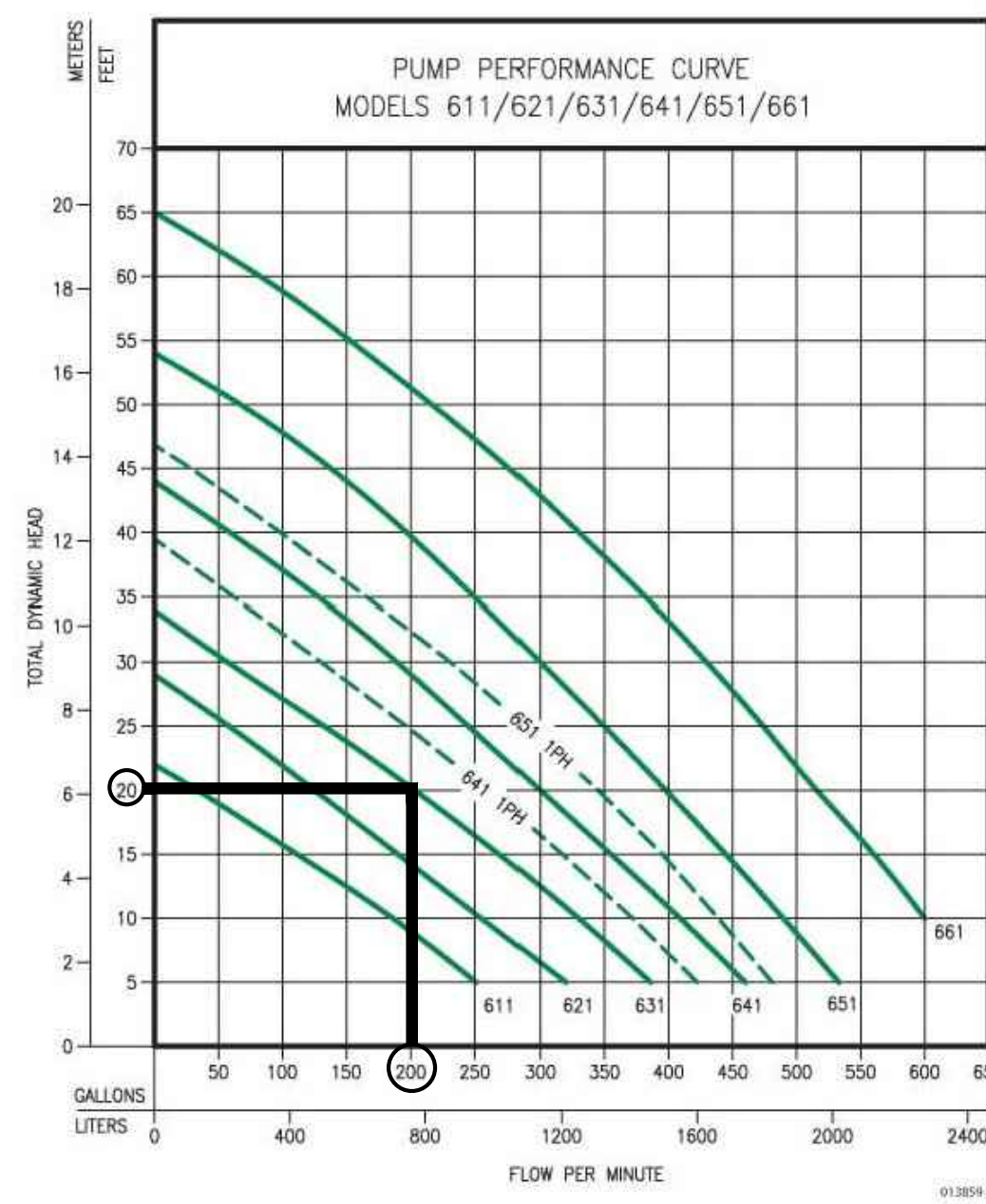
$$H_f = (10.44)(20.5') \frac{(200_{gpm})^{1.85}}{(150)^{1.85}(2_{inches})^{4.86955}} \text{ SO } H_f = (214.02) \frac{18,067.81}{(10,611.31)(29,1515)}$$

$$H_f = (214.02) \frac{18,067.81}{309,335.6035} \text{ SO } H_f = (214.02)(.05841)$$

$$H_{fr} = 12.5' \text{ FRICTION HEAD}$$

$$H_{vt} = 5.50' \text{ VERT. LIFT HEAD}$$

$$H_{tot} = 18' \text{ TOTAL HEAD}$$



These plans and details are the Approved Detailed Preliminary Plans for construction of UMS Property, LLC for a New Production Facility Site Plan 2023

As per planning board resolution No. _____, dated _____, 2023. These detailed preliminary site plans and details are certified to be in compliance with Planning Board conditions.

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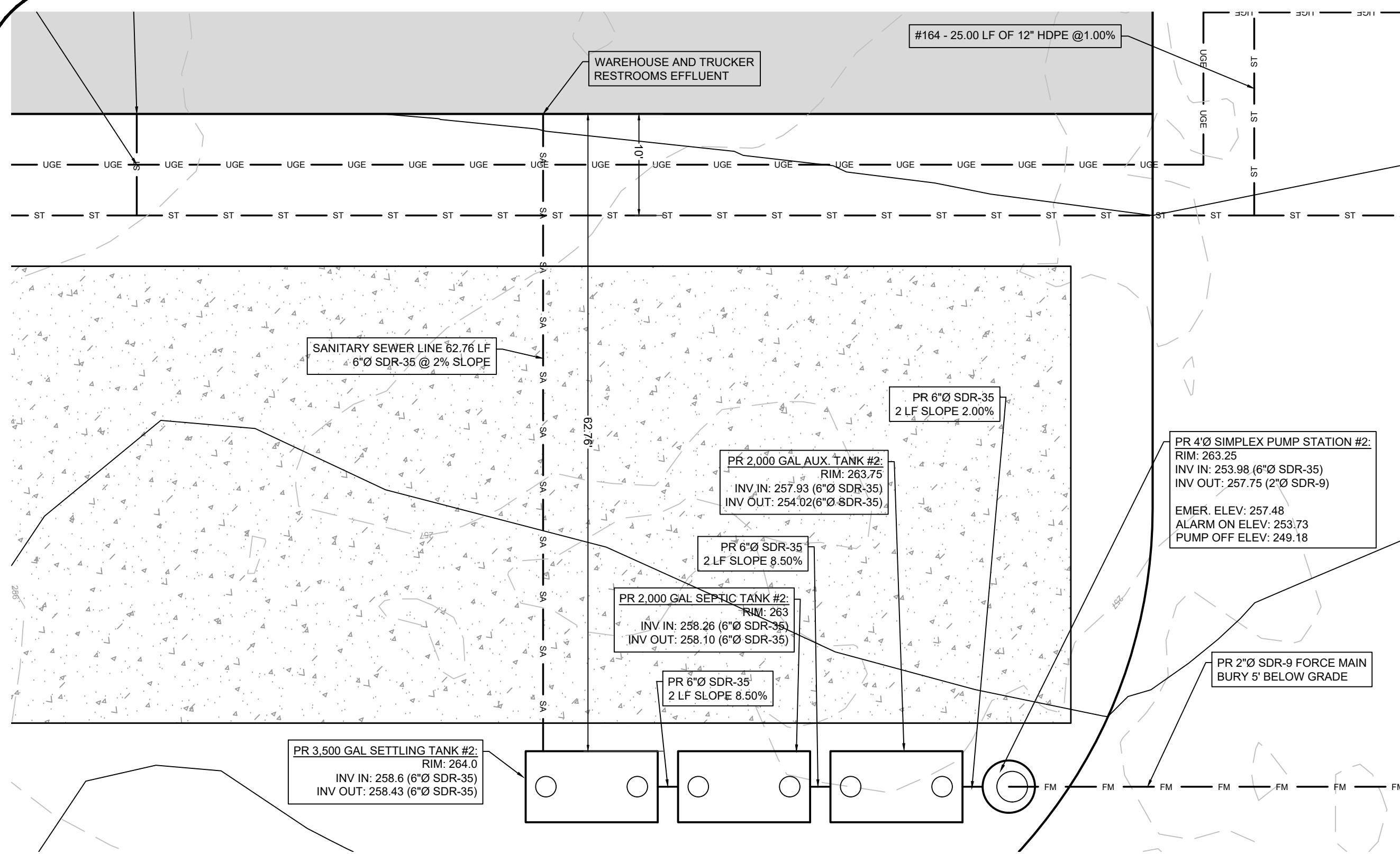
1 PROPOSED FINALE TREATMENT AREA (SYSTEM #1)
 SCALE: NTS

| | | |
|-----|----------------|------------|
| 1 | SPDES NOIA | 12/03/2024 |
| 2 | SPDES NOIA | 12/12/2024 |
| | | |
| | | |
| No. | Revision/Issue | Date |

RMS
 ROBERT M. SUTHERLAND P.C.
 ENGINEERS - PLANNERS - SURVEYORS
 SOIL & MATERIAL TESTING
 11 MACDONOUGH STREET, PLATTSBURGH, NY 12901
 518.561.6145(PH) 518.561.2496 (FX)
 R M S P C O I O

Project Name & Address
 UMS Property, L.L.C.
 showing
New Production Facility
Site Plan 2023
 ~ Situate ~
 Clinton County Town of Plattsburgh State of New York

| | | | |
|-----------|------------|---------|------------------------------|
| Project # | 21025 | Sheet | Proposed Sanitary Sewer Plan |
| Date | 10/14/2024 | | |
| Scale | 1" = 10' | | C407 |
| Drawn | LSC | Checked | AJO |



SYSTEM #2 DESIGN FLOW DATA

SYSTEM SIZING

APPROXIMATELY 53% OF THE DAILY EFFLUENT FLOW

EFFECTIVE DAILY EFFLUENT FLOW = 3,800 x 0.53 = 2,014 GPD

SEPTIC TANK SIZING

AS THE SIGNIFICANT DELIVERY PERIOD GETS SHORTER, TANK VOLUME SHOULD INCREASE PROPORTIONATELY, PROVIDING FLOW EQUALIZATION AND A 24-HOUR DETENTION TIME FOR THE WASTEWATER GENERATED DURING THAT PERIOD. THIS INCREASE IN VOLUME COMPENSATES FOR TURBULENCE DUE TO THE HIGH FLOW RATE AND MINIMIZES SCOURING OF SEPTIC TANK SLUDGE AND SCUM AND CARRYOVER OF SOLIDS INTO THE ABSORPTION SYSTEM.

TOTAL DAILY EFFLUENT FLOW x 24 HRS / DELIVERY PERIOD (HRS) = SEPTIC TANK SIZE (GALLONS)

2,014 GPD x 24 HRS / 10 HRS = 4,834 GALLONS OR 5,000 GALLON TANK REQUIRED

PROVIDE TWO TANKS IN SERIES (1) 3,500 GALLON AND (1) 2,000 GALLON

PUMP STATION #2 DESIGN RUNTIME

FORCE MAIN = 75%(749 LF x 0.022 SF) = 12 CF = 90 GALLONS

2,014 GPD / 6 CYCLES PER DAY = 335.67 GALLONS PER DOSE

MINIMUM PUMP VOLUME = 90 + 336 = 426 GALLONS

PUMP ~ 426 GALLONS EVERY 4 HRS

PUMP #2 DESIGN, HEAD-LOSS, (FRICTION) CALCULATIONS

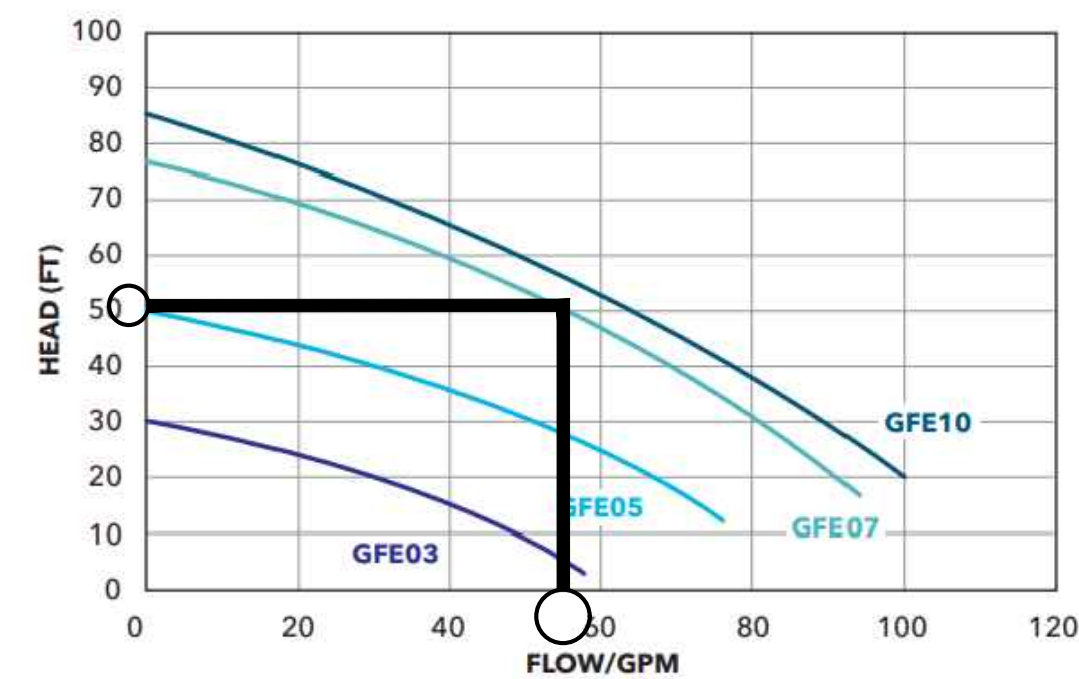
$$H_f = (10.44)(L) \left(\frac{V_{gpm}^{1.85}}{(C)^{1.85} (d_{inches})^{4.8655}} \right)$$

$$H_f = (10.44)(746) \left(\frac{(50_{gpm})^{1.85}}{(150)^{1.85} (2_{inches})^{4.8655}} \right) \text{ SO } H_f = (7,788) \left(\frac{1,390}{(10,611)(29)} \right)$$

$$H_f = (7,788) \left(\frac{1,390}{307,719} \right) \text{ SO } H_f = (7,788)(0.004518)$$

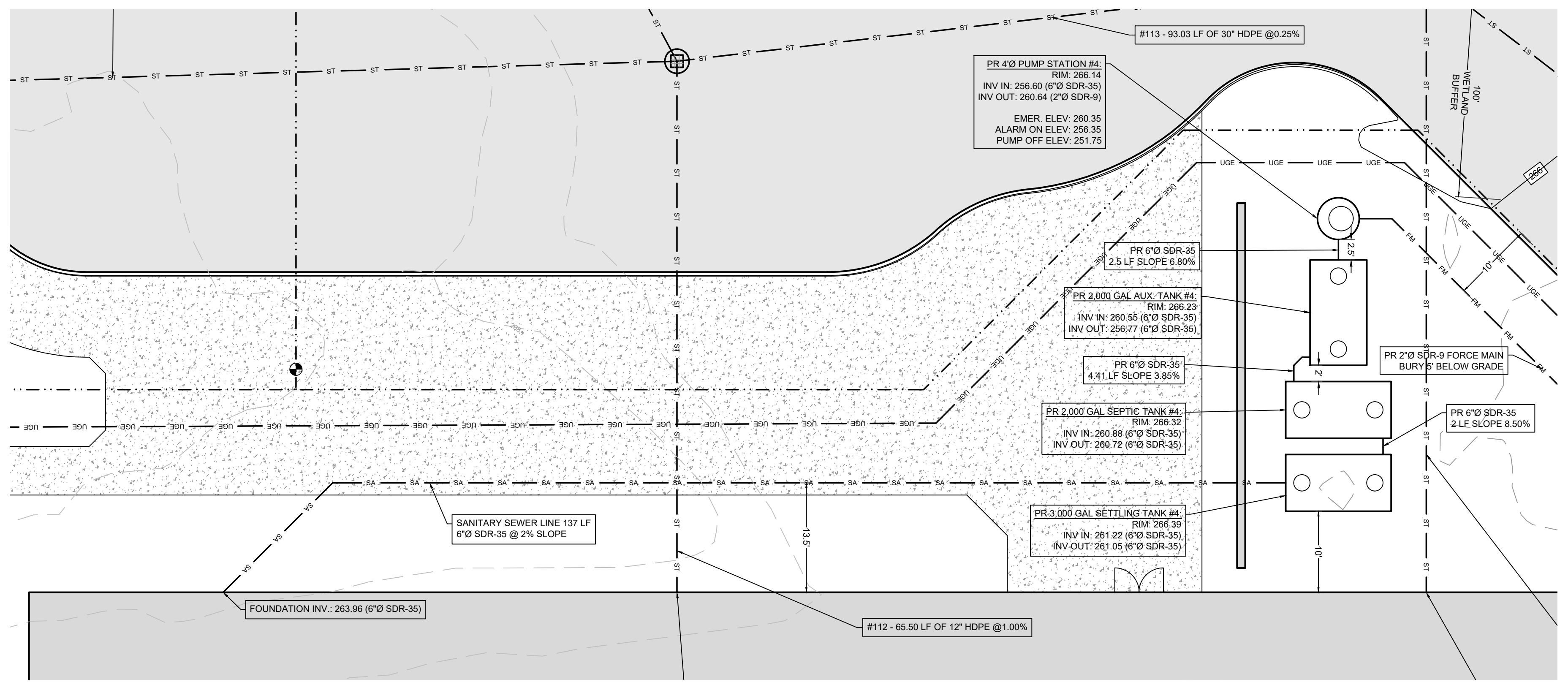
H_f = 35' FRICTION HEAD
H_v = 11' VERT. LIFT HEAD
H_{tot} = 46' TOTAL HEAD

THEREFORE, A PUMP CAPABLE OF DELIVERING AT LEAST 55 GPM AGAINST 53 FT. OF HEAD IS REQUIRED. BASED UPON THE HEAD-LOSS GRAPH, A GOULDS PUMP SERIES GFE07 CAN SUPPLY FLOW RATE AT EXPECTED TOTAL HEAD LOSS PRESSURE. HEAD PRESSURE, WHICH IS ROUGHLY IN THE MIDDLE OF THE PUMP CURVE GRAPH.



GOULDS PUMP SERIES GFE07 PERFORMANCE CURVE

1 PROPOSED PRIMARY TREATMENT SYSTEM #2
C408 SCALE: NTS



SYSTEM #3 DESIGN FLOW DATA

SYSTEM SIZING

APPROXIMATELY 47% OF THE DAILY EFFLUENT FLOW

EFFECTIVE DAILY EFFLUENT FLOW = 3,800 x 0.47 = 1,786 GPD

SEPTIC TANK SIZING

AS THE SIGNIFICANT DELIVERY PERIOD GETS SHORTER, TANK VOLUME SHOULD INCREASE PROPORTIONATELY, PROVIDING FLOW EQUALIZATION AND A 24-HOUR DETENTION TIME FOR THE WASTEWATER GENERATED DURING THAT PERIOD. THIS INCREASE IN VOLUME COMPENSATES FOR TURBULENCE DUE TO THE HIGH FLOW RATE AND MINIMIZES SCOURING OF SEPTIC TANK SLUDGE AND SCUM AND CARRYOVER OF SOLIDS INTO THE ABSORPTION SYSTEM.

TOTAL DAILY EFFLUENT FLOW x 24 HRS / DELIVERY PERIOD (HRS) = SEPTIC TANK SIZE (GALLONS)

1,786 GPD x 24 HRS / 10 HRS = 4,286 GALLONS OR 5,000 GALLON TANK REQUIRED

PROVIDE TWO TANKS IN SERIES (1) 3,000 GALLON AND (1) 2,000 GALLON

PUMP STATION #3 DESIGN RUNTIME FACTORS

FORCE MAIN = 75%(1,105 LF x 0.022 SF) = 18.23 CF = 136 GALLONS

1,786 GPD / 6 CYCLES PER DAY = 298 GALLONS PER DOSE

MINIMUM DOSE VOLUME = 136 + 298 = 434 GALLONS

PUMP ~ 434 GALLONS EVERY 4 HRS

PUMP #4 DESIGN, HEAD-LOSS, (FRICTION) CALCULATIONS

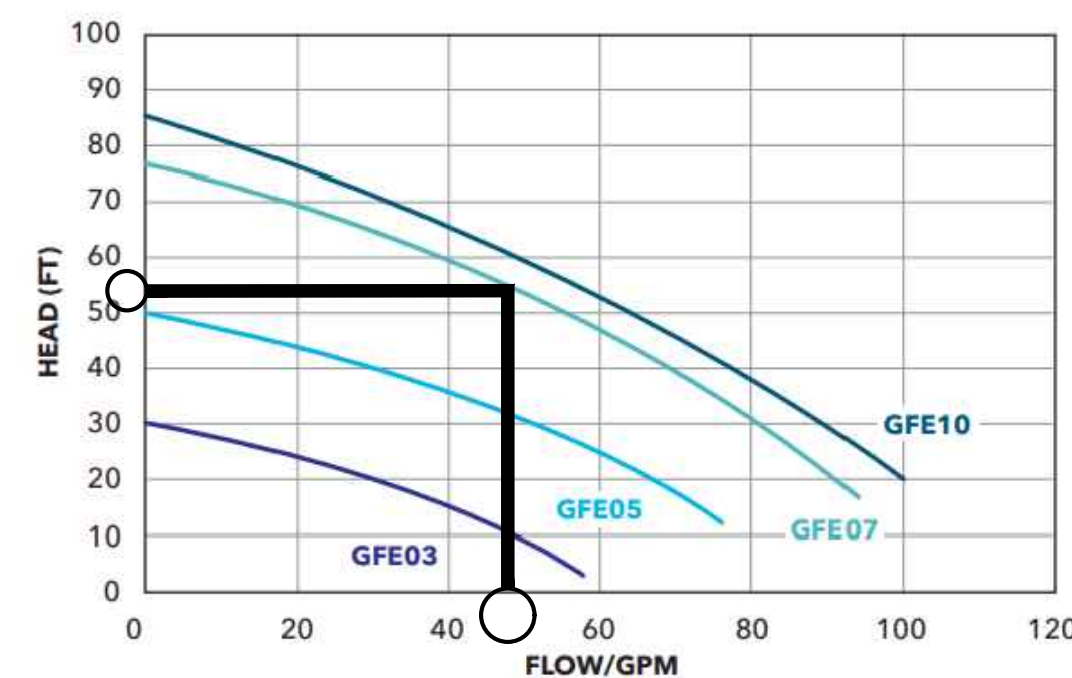
$$H_f = (10.44)(L) \left(\frac{V_{gpm}^{1.85}}{(C)^{1.85} (d_{inches})^{4.8655}} \right)$$

$$H_f = (10.44)(1,102) \left(\frac{(45_{gpm})^{1.85}}{(150)^{1.85} (2_{inches})^{4.8655}} \right) \text{ SO } H_f = (11,505) \left(\frac{1,144}{(10,611)(29)} \right)$$

$$H_f = (11,505) \left(\frac{1,144}{307,719} \right) \text{ SO } H_f = (11,505)(0.003718)$$

H_f = 43' FRICTION HEAD
H_v = 10' VERT. LIFT HEAD
H_{tot} = 53' TOTAL HEAD

THEREFORE, A PUMP CAPABLE OF DELIVERING AT LEAST 45 GPM AGAINST 53 FT. OF HEAD IS REQUIRED. BASED UPON THE HEAD-LOSS GRAPH, A GOULDS PUMP SERIES GFE05 CAN SUPPLY FLOW RATE AT EXPECTED TOTAL HEAD LOSS PRESSURE. HEAD PRESSURE, WHICH IS ROUGHLY IN THE MIDDLE OF THE PUMP CURVE GRAPH.



GOULDS PUMP SERIES GFE07 PERFORMANCE CURVE

1 PROPOSED PRIMARY TREATMENT SYSTEM #3
C408 SCALE: NTS

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Town Planning Department _____ Date _____

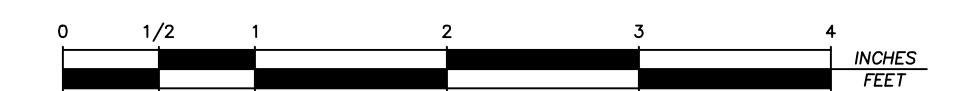
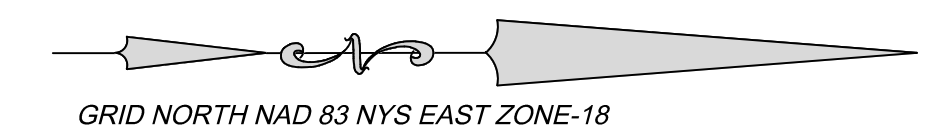
Tim Palmer _____ Date _____
planning board chairman

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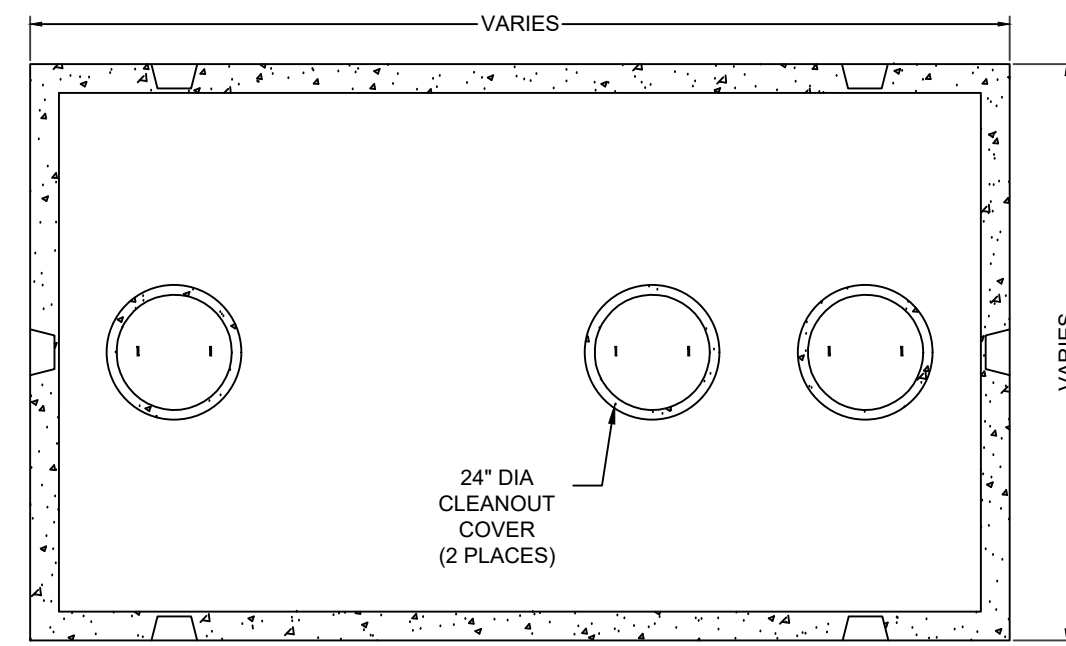
Scale: 1 Inch = 10 Feet

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| 1 | SPDES NOIA | 12/03/2024 |
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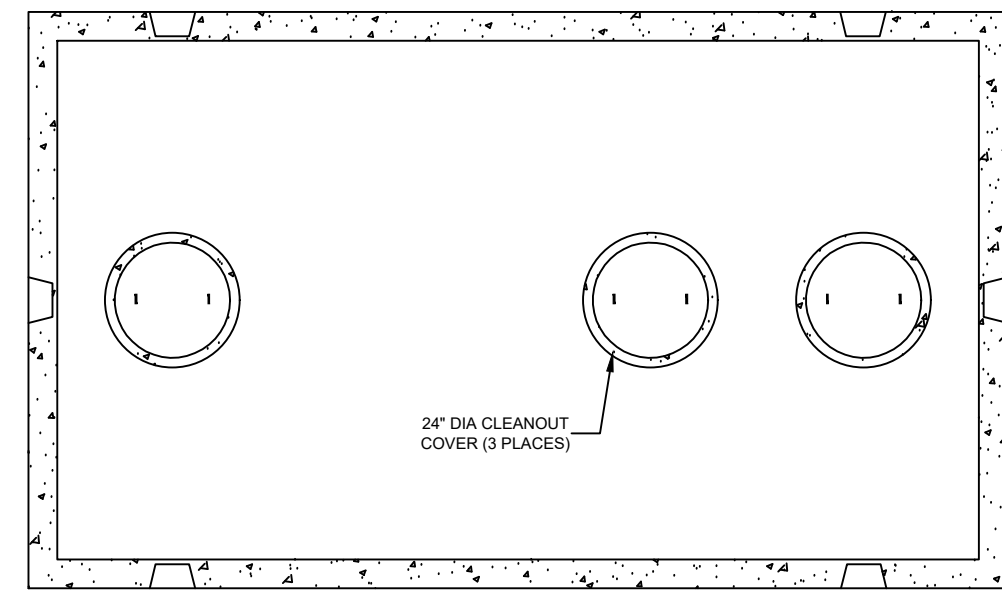


Project Name & Address
UMS Property, L.L.C.
showing
New Production Facility
Site Plan 2023
~ Situate ~
Clinton County Town of Plattsburgh State of New York

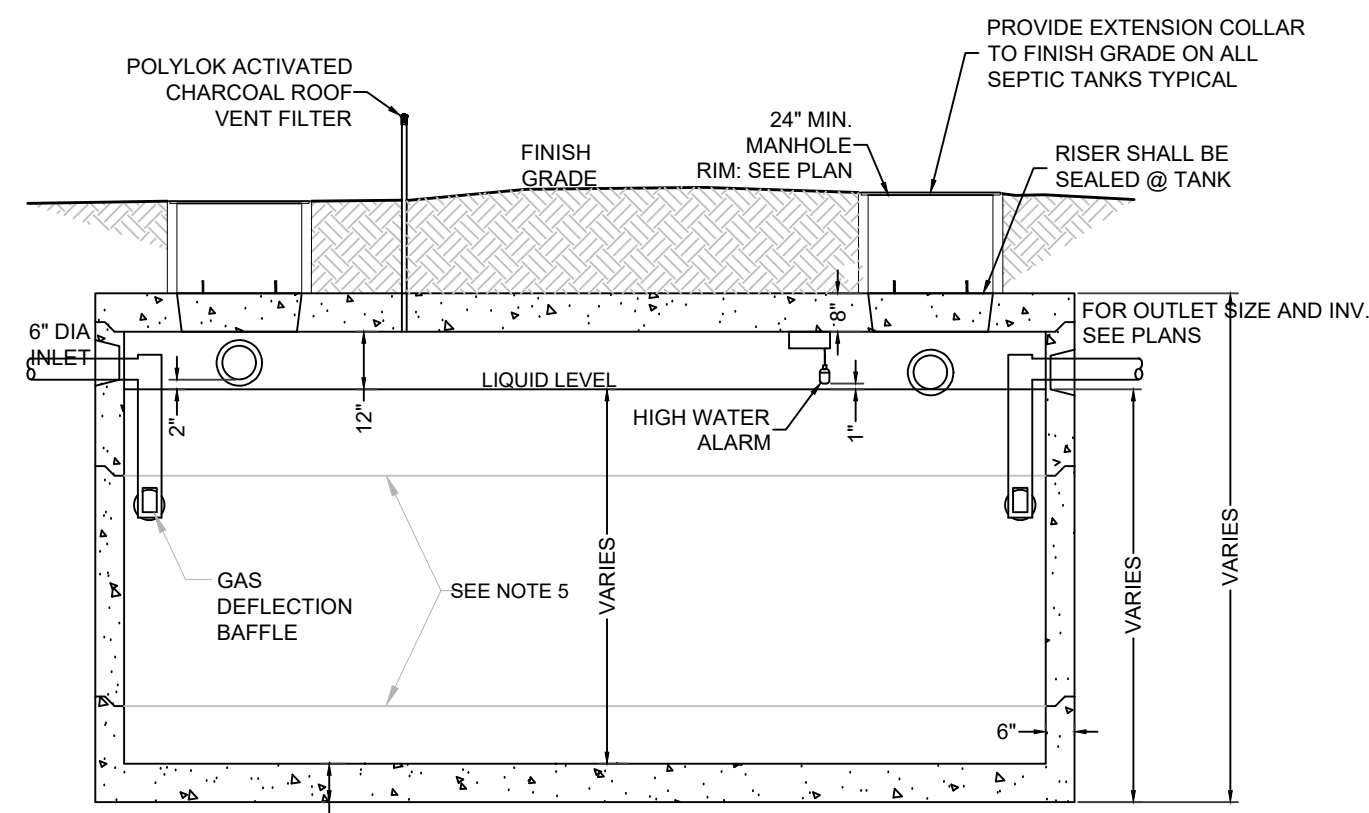
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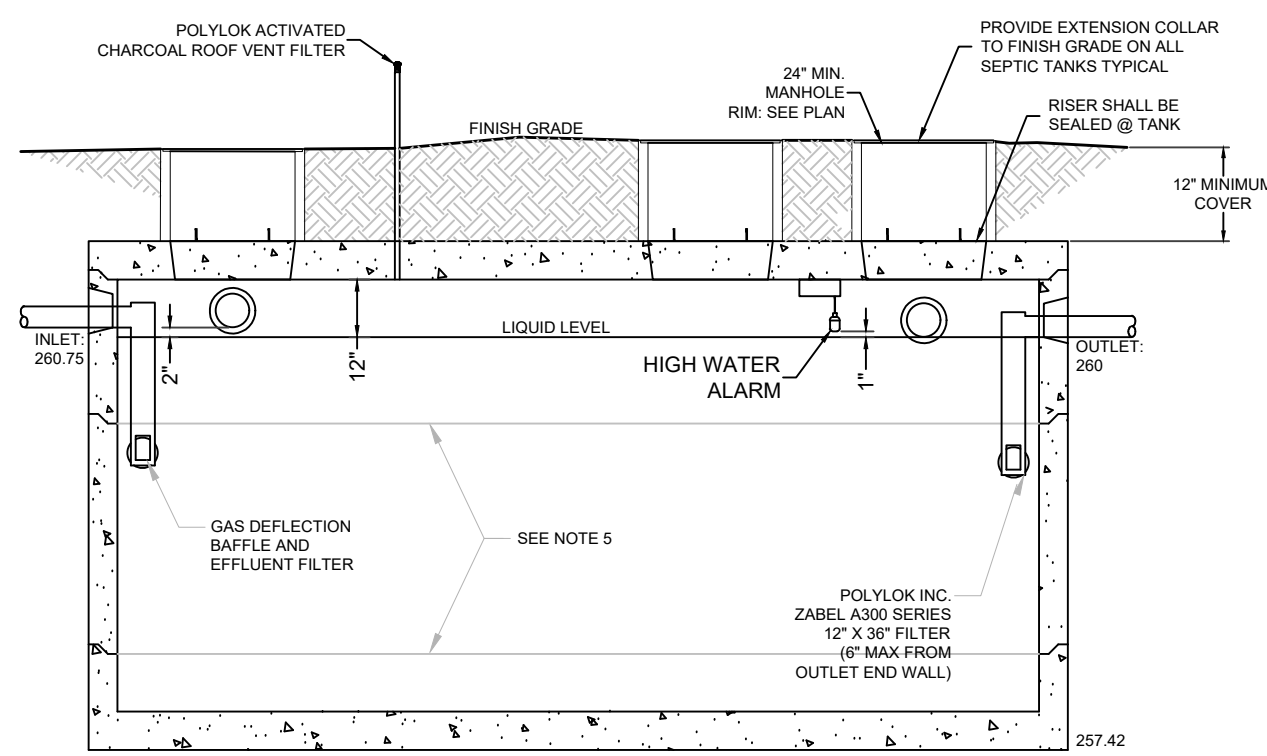
PLAN VIEW



PLAN VIEW



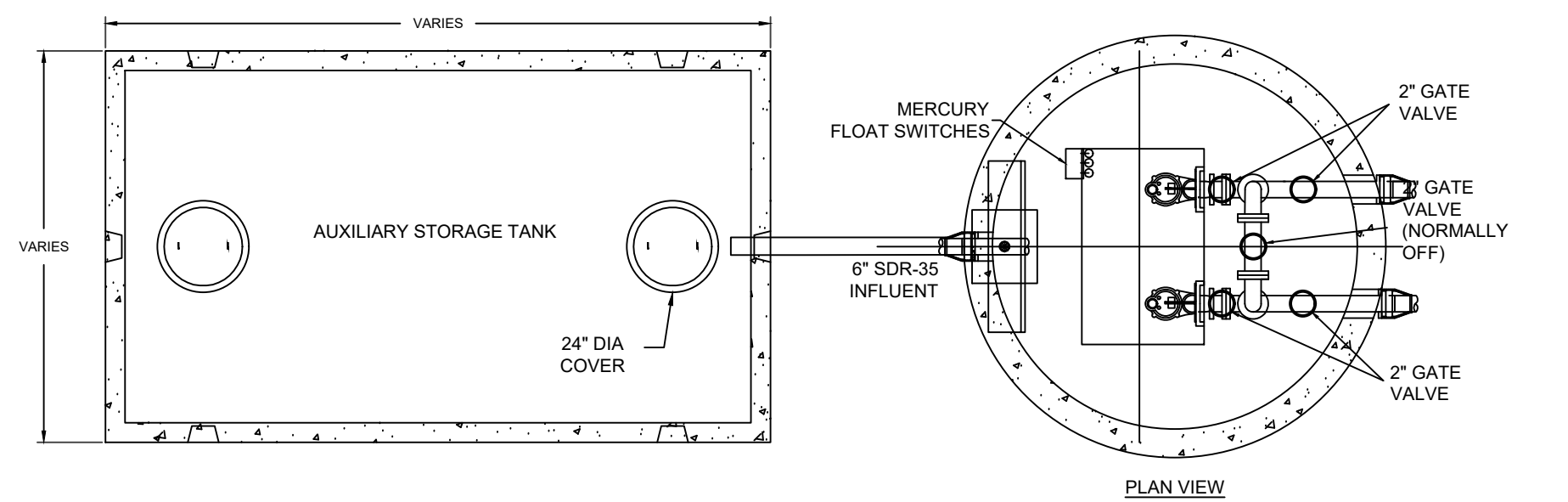
SECTION VIEW



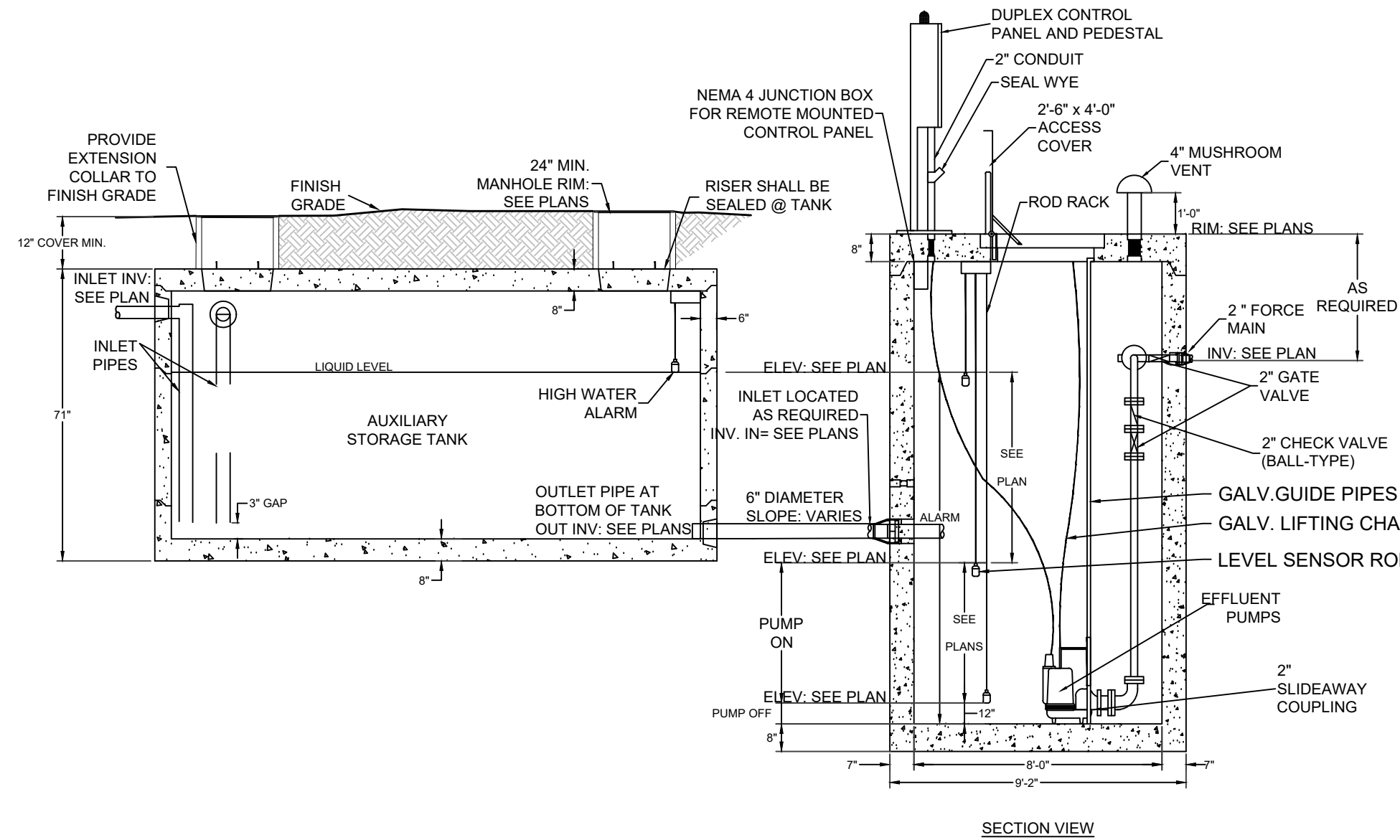
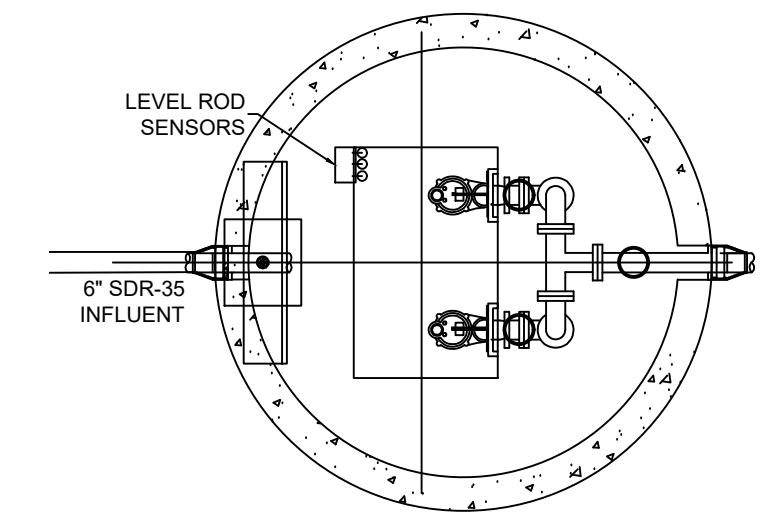
SECTION VIEW

1 TYPICAL SETTLING TANK DETAIL
C409 SCALE: NTS

2 TYPICAL SEPTIC TANK DETAIL
C409 SCALE: NTS



PLAN VIEW



SECTION VIEW

3 DUPLEX PUMP STATION w/ AUXILIARY TANK DETAIL
C409 SCALE: NTS

4 PUMP STATION SINGLE FORCE MAIN PIPE CONFIGURATION
C409 SCALE: NTS

OPERATION AND MAINTENANCE NOTES

SEPTIC TANK SHALL BE INSPECTED ANNUALLY TO DETERMINE SCUM AND SLUDGE ACCUMULATION SEPTIC TANK MUST BE PUMPED OUT WHENEVER THE BOTTOM OF THE SCUM LAYER IS WITHIN THREE INCHES OF THE BOTTOM OF THE OUTLET BAFFLE OR SANITARY TEE OR THE TOP OF THE SLUDGE IS WITHIN TEN INCHES OF THE BOTTOM OF THE OUTLET BAFFLE OR SANITARY TEE.

THE SEPTIC TANK WILL BE PUMPED AT A MINIMUM OF EVERY THREE YEARS. (PLEASE REFER TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION "DESIGN STANDARDS FOR WASTEWATER TREATMENT WORKS, 1988 AND THE NEW YORK STATE DEPARTMENT OF HEALTH "DESIGN HANDBOOK, 2012" FOR ADDITIONAL INFORMATION ON THE OPERATION AND MAINTENANCE OF THE SANITARY SYSTEM.

SEPTIC SYSTEM CONSTRUCTION NOTES:

ANY FILL USED IN THE CONSTRUCTION MUST HAVE PERCOLATION RATES OF 1-5 MINUTES PER INCH. THIS FILL MUST BE PLACED IN LIFTS NO LARGER THAN 6 INCHES AN COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AS SET FORTH IN ASTM D1557

NO HEAVY EQUIPMENT SHALL BE ALLOWED OVER ABSORPTION BASAL AREA, OR WITHIN 20' DOWNSLOPE, IN THE DISPERSAL AREA.

THERE ARE NO EXISTING WELLS WITHIN 100 FEET OF THE PROPOSED SEPTIC SYSTEM.

ALL PIPE TO BE PVC, SCHEDULE 40 MINIMUM.

THE SYSTEM SHALL BE COVERED WITH SIX INCHES OF TOPSOIL MIN. AND SEEDED.

ALL TANKS, AND DISTRIBUTION BOX, WILL ALL BE LAID LEVEL.

COMPACTION WILL BE ACHIEVED VIA TRACK TYPE MACHINES (e.g. BULLDOZER OR FRONT END LOADER WITH DOWNWARD BLADE/BUCKET PRESSURE) OR STEEL WHEELED ROLLER. NOTE- ABSOLUTELY NO RUTS MUST BE ALLOWED TO BE CREATED.

DURING CONSTRUCTION, A CERTIFIED ENGINEER MUST INSPECT THE SYSTEM (AND PRIOR TO BACKFILL OF THE NEW SYSTEM) TO VERIFY THAT THE WORK COMPLIES WITH ALL NYSDOH STANDARDS

ALL TREES AND STUMPS SHALL BE CUT AT GRADE AND REMOVED. OTHER VEGETATION (i.e., BRUSH, VINES, WEEDS, GRASS) SHALL BE CUT AS CLOSE TO GRADE AS POSSIBLE AND REMOVED. ALL LEAVES, LIMBS AND BOULDERS ABOVE GRADE SHALL ALSO BE REMOVED. ROOT STRUCTURE BELOW GRADE SHOULD NOT BE REMOVED. ROTOTILLING OR SOIL SCARIFICATION WITH CONSTRUCTION EQUIPMENT IS NOT RECOMMENDED.

A PERCOLATION TEST WILL BE TAKEN OF THE FILL BY THE DESIGN ENGINEER IN THE BORROW PIT PRIOR TO DISTURBANCE AND ON SITE AFTER FILL IS PLACED.

THE DESIGN ENGINEER MUST VERIFY THE PERCOLATION RATE OF THE FILL AFTER IF IS COMPACTED AND RE-SIZE THE ABSORPTION FIELD IF RATES CHANGE FROM THE DESIGN.

EXTREME CARE MUST BE TAKEN TO ASSURE THAT CONSTRUCTION TECHNIQUES DO NOT COMPROMISE THE INTEGRITY OF THE SHALLOW LEACH FIELD SYSTEM. HEAVY CONSTRUCTION EQUIPMENT MUST NOT BE ALLOWED WITHIN THE FILL AREA OR IMMEDIATELY DOWNSLOPE OF THE SYSTEM. THIS AREA PROVIDES EFFLUENT DISPERSAL FOR THE LEACH FIELD SYSTEM.

PUMP CHAMBER NOTES:

ALL TANKS MUST CONFORM TO THE NEW YORK STATE DEC DESIGN STANDARDS

A MINIMUM OF 6" WALL THICKNESS FOR ALL POURED-IN-PLACE CONCRETE.

NEW PUMP STATION SHALL BE LAID LEVEL ON A BED OF 3" CLEAN SAND OR 5" OF WASHED #2 STONE MIN.

FLOAT SWITCHES IN NEW PUMP STATION TO BE SET TO ALLOW FOR CALCULATED DOSES.

ENGINEER TO VERIFY SETTINGS OF FLOAT ELEVATIONS IN FIELD AFTER TANKS HAVE BEEN SET IN PLACE.

NEW PUMPS FOR PROPOSED PUMP CHAMBERS:

- TWO (2) ZOELLER 631, 2 HP, 230 VOLT, ONE PHASE OR APPROVED EQUAL.
- TWO (2) GOULDS GFE0712, 0.75 HP, 230 VOLT, ONE PHASE OR APPROVED EQUAL.
- TWO (2) GOULDS GFE0712, 0.75 HP, 230 VOLT, ONE PHASE OR APPROVED EQUAL.

FORCE MAIN SHALL BE LAID AT A CONSTANT SLOPE (1% MINIMUM) FROM PUMP STATION TO HIGH POINT TO ALLOW EFFLUENT TO FLOW EITHER INTO D-BOX OR BACK TO THE PUMP STATION.

A HOUR METER MUST BE INSTALLED AT EACH PROPOSED PUMP CHAMBER, AND CALIBRATED BY THE DESIGN ENGINEER FOR TIME VS. ACTUAL GALLONS PUMPED TO MONITOR.

EXISTING PUMP STATION: ONCE ACTUAL PUMP CURVE HAS BEEN CALCULATED BY THE ENGINEER, A TIMER SHALL BE INSTALLED SO THAT THE MAXIMUM PUMP RUNNING TIME IS LIMITED TO CALCULATED DOSES OR 75% TO 85% OF THE DISTRIBUTION PIPES VOLUME.

DUPLEX PUMPS WILL ALTERNATE IN RUNNING TIME AND BOTH ARE TO BE MONITORED BY THE HIGH WATER ALARM

PUMP CONTROL PANEL SHALL BE HOUSED ADJACENT TO THE EXISTING PUMP CHAMBER & NEW PUMP STATION ON POSTS OR ON THE WALL OF THE EXISTING BUILDING W/ A REMOTE ALARM LOCATED NEAR THE MAIN OFFICE

- ALARM BELL & LIGHT WITH SILENCE SWITCH SHALL BE MOUNTED NEAR THE MAIN OFFICE
- CONDENSATION HEATER
- CYCLE COUNTER
- CONVENIENCE OUTLET
- ELAPSE TIME HOUR METER FOR EACH PUMP
- PROVIDE SEPARATE TERMINALS FOR REMOTE ALARM
- INTRINSICALLY SAFE RELAYS
- ALL FLOATS SHALL BE DAYTON WIDE ANGLE NORMALLY CLOSED OR EQUAL

CONTRACTOR RESPONSIBLE FOR RUNNING NEW POWER SERVICES FOR PUMP OPERATIONS, W/ SEPARATE CIRCUIT FOR ALARMS, AND CONTROLS.

ALL EQUIPMENT TO BE PLACED WITHIN THE NEW PUMP STATION MUST BE EXPLOSION PROOF.

SEPTIC TANK NOTES:

ALL TANKS MUST CONFORM TO NEW YORK STATE DEC DESIGN STANDARDS

ALL BAFFLES AND SANITARY TEES MUST HAVE A MINIMUM OF 1" SEPARATION BETWEEN THE TOP OF THE SANITARY TEE OR BAFFLE TO THE INSIDE TOP OF SEPTIC TANK

DEPTH OF INLET SANITARY TEE OR BAFFLE BELOW LIQUID LEVEL
LIQUID LEVEL < 40" DEPTH = 12"
LIQUID LEVEL > 40" DEPTH = 16"

DEPTH OF OUTLET SANITARY TEE OF BAFFLE BELOW LIQUID LEVEL
LIQUID LEVEL < 40" DEPTH = 14"
LIQUID LEVEL > 40" DEPTH = 18"

INLET INVERT MUST BE A MINIMUM OF 2" ABOVE OUTLET

INVERT LIQUID DEPTH MUST BE A MIN. OF 30" BUT NO GREATER THAN 60" IN DEPTH

A MINIMUM OF 6" WALL THICKNESS FOR ALL POURED-IN-PLACE CONCRETE

SEPTIC TANK SHALL BE LAID LEVEL ON A BED OF 4" OF WASHED #2 STONE

ALL TANKS MUST BE VENTED.

IT IS RECOMMENDED THAT A FILTER BE INSTALLED IN THE SANITARY TEE OUTLET TO EXTEND THE LIFE OF THE ABSORPTION TRENCHES.

OUTLET FILTER MUST BE LOCATED NO MORE THAN 6" FROM OUTLET END WALL

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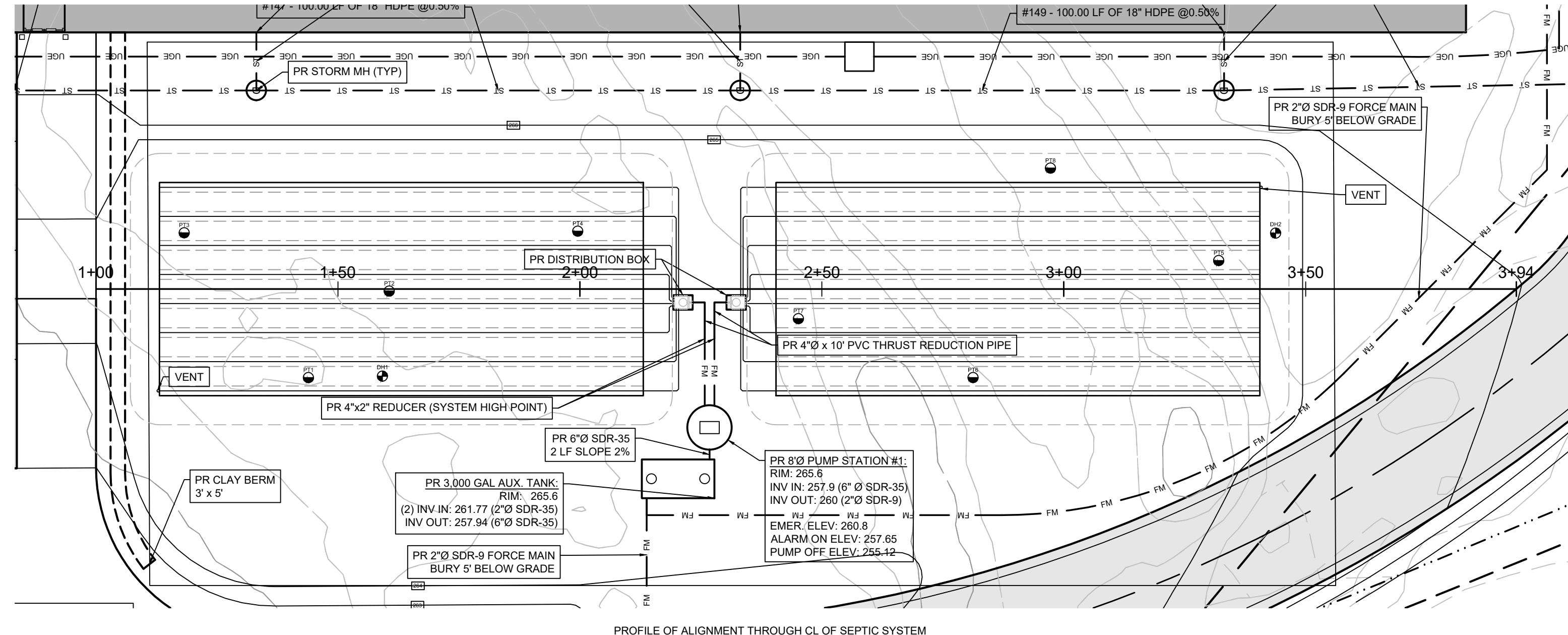
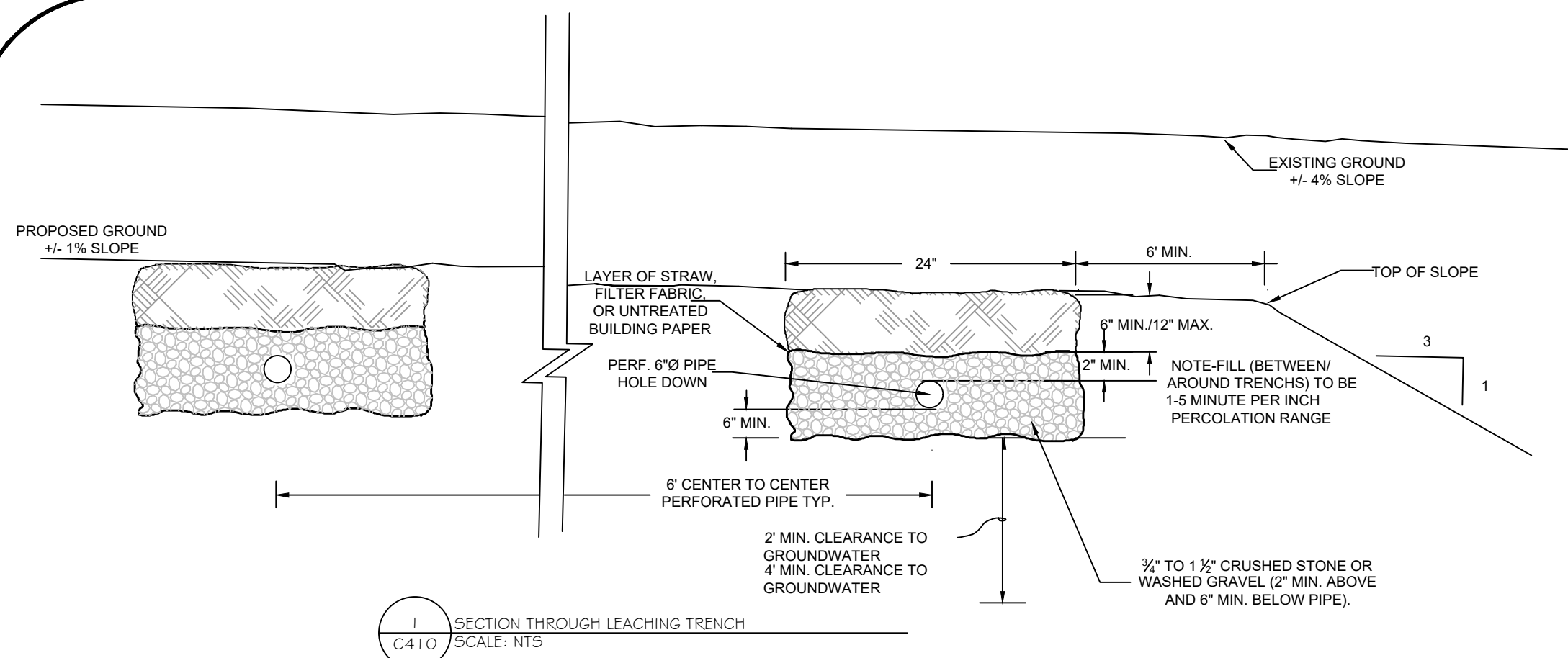
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Project Name & Address
UMS Property, L.L.C.
showing
New Production Facility
Site Plan 2023
~ Situate ~
Clinton County Town of Plattsburgh State of New York

| | | | |
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| Project # | 21025 | Sheet | Proposed Sanitary Sewer Notes and Details |
| Date | 10/14/2024 | C409 | |
| Scale | N.T.S. | | |
| Drawn | LSC | Checked | AJO |

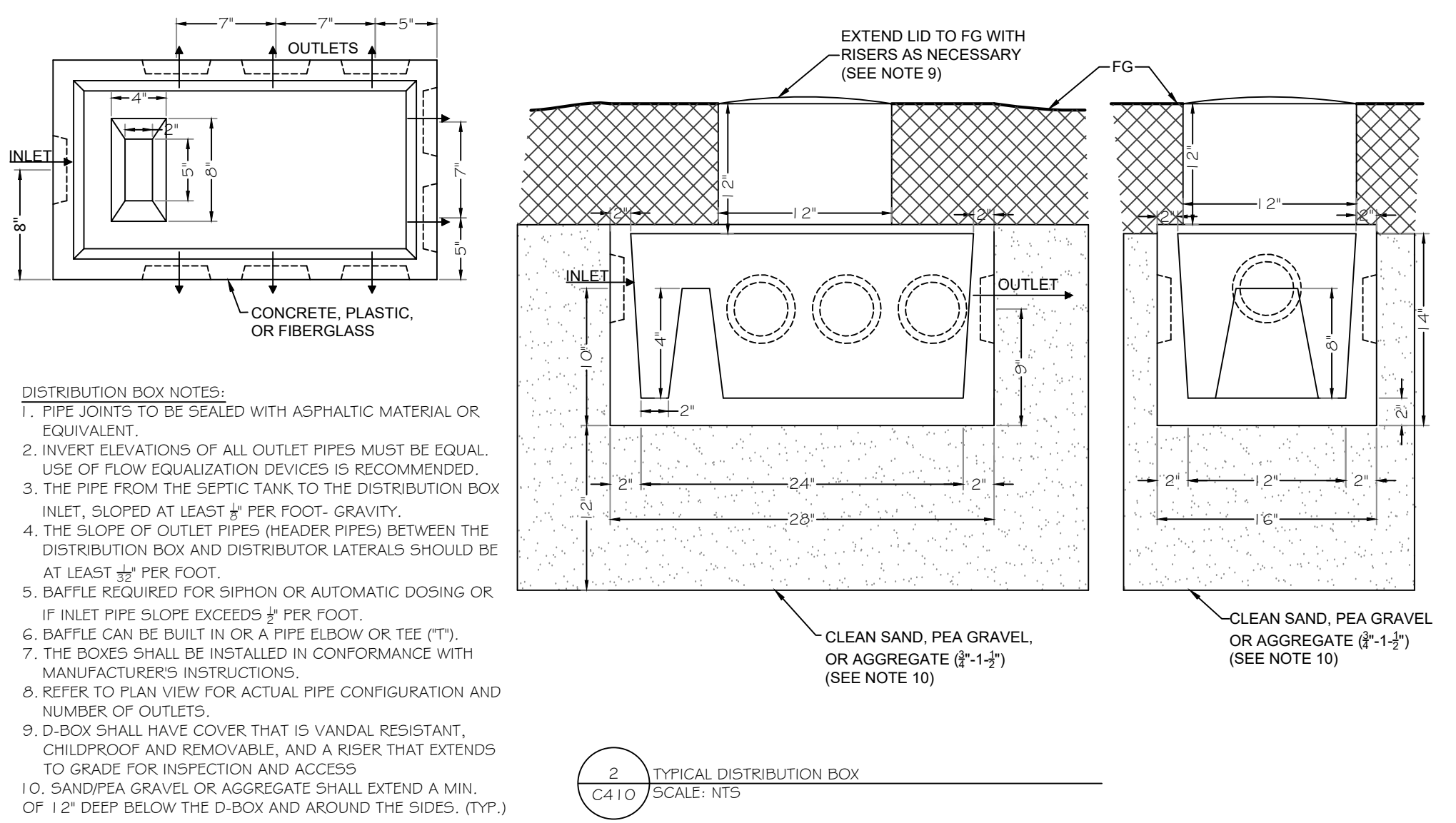


DEEP HOLE #1:
 BY AJO ON 05/15/2023
 EXISTING GRADE: 269.00'
 0" - 6" BLACK TOP SOIL
 6" - 24" RED BROWN SANDY LOAM
 24" - 72" TAN SANDY LOAM
 SATURATED ELEVATION: 244.00'
 BEDROCK ELEVATION: 214.00'
 PR. TRENCH BOTTOM: -262.39'
 DEPTH TO GROUNDWATER: 18.39'
 DEPTH TO BEDROCK: 48.39'

DEEP HOLE #2:
 BY AJO ON 05/15/2023
 EXISTING GRADE: 269.00'
 0" - 4" BLACK TOP SOIL
 4" - 26" RED BROWN SANDY LOAM
 26" - 72" TAN SANDY LOAM
 SATURATED ELEVATION: 244.00'
 BEDROCK ELEVATION: 214.00'
 PR. TRENCH BOTTOM: -262.39'
 DEPTH TO GROUNDWATER: 18.39'
 DEPTH TO BEDROCK: 48.39'

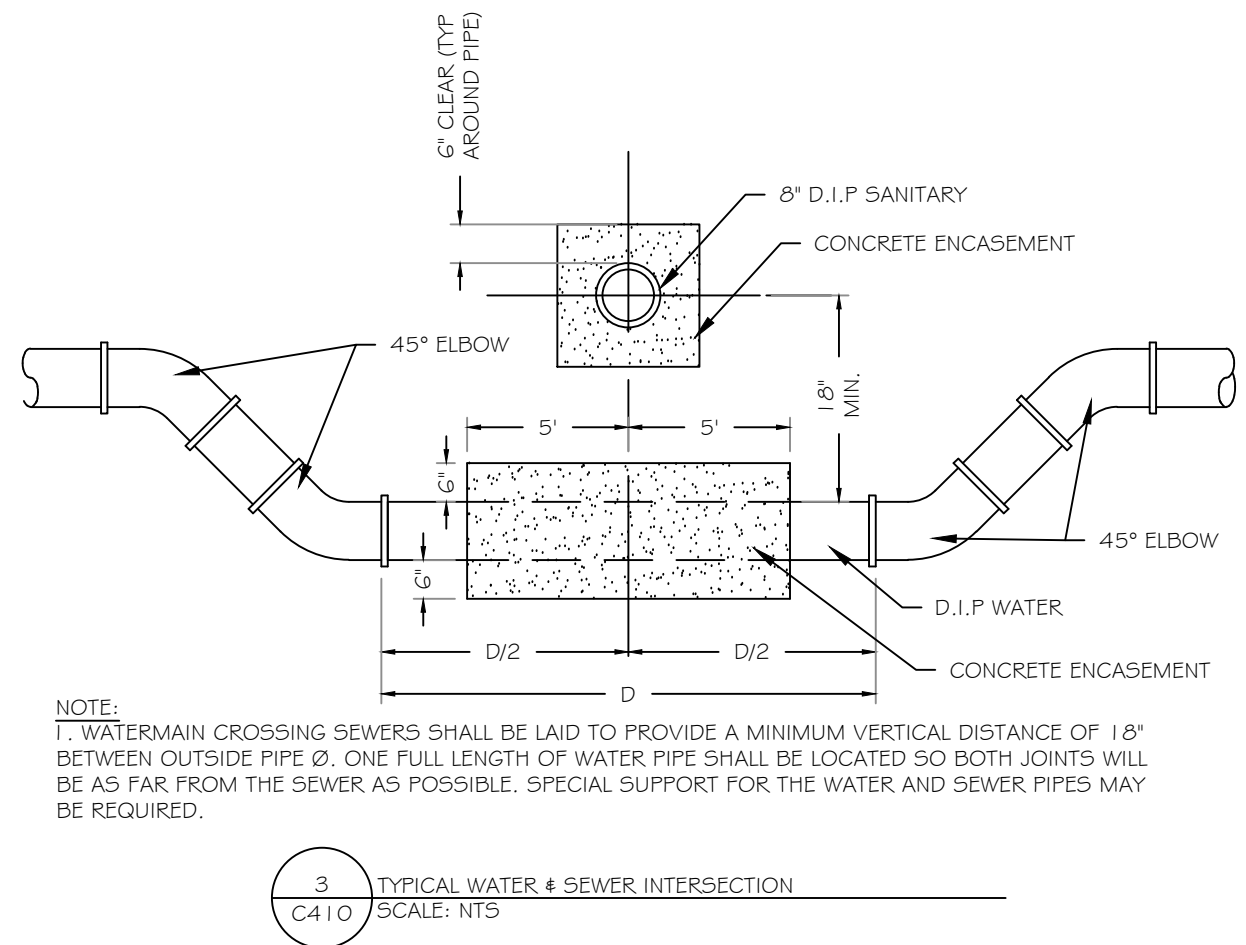
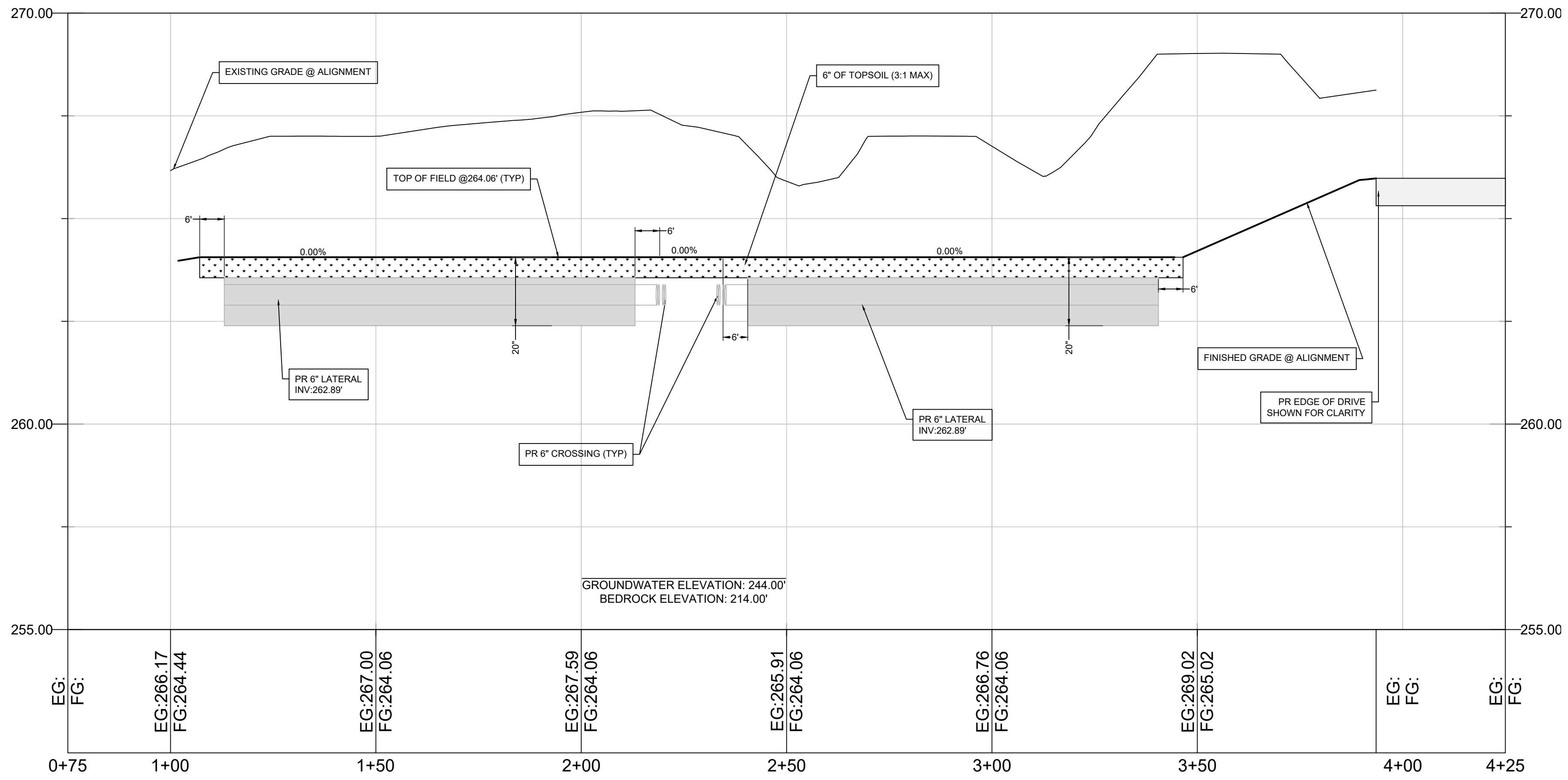
PERCOLATION TEST RATE #1-4:
 BY AJO ON 05/15/2023
 TIME = 2 MINUTES/INCH

PERCOLATION TEST RATE #5-8:
 BY AJO ON 05/15/2023
 TIME = 2.5 MINUTES/INCH

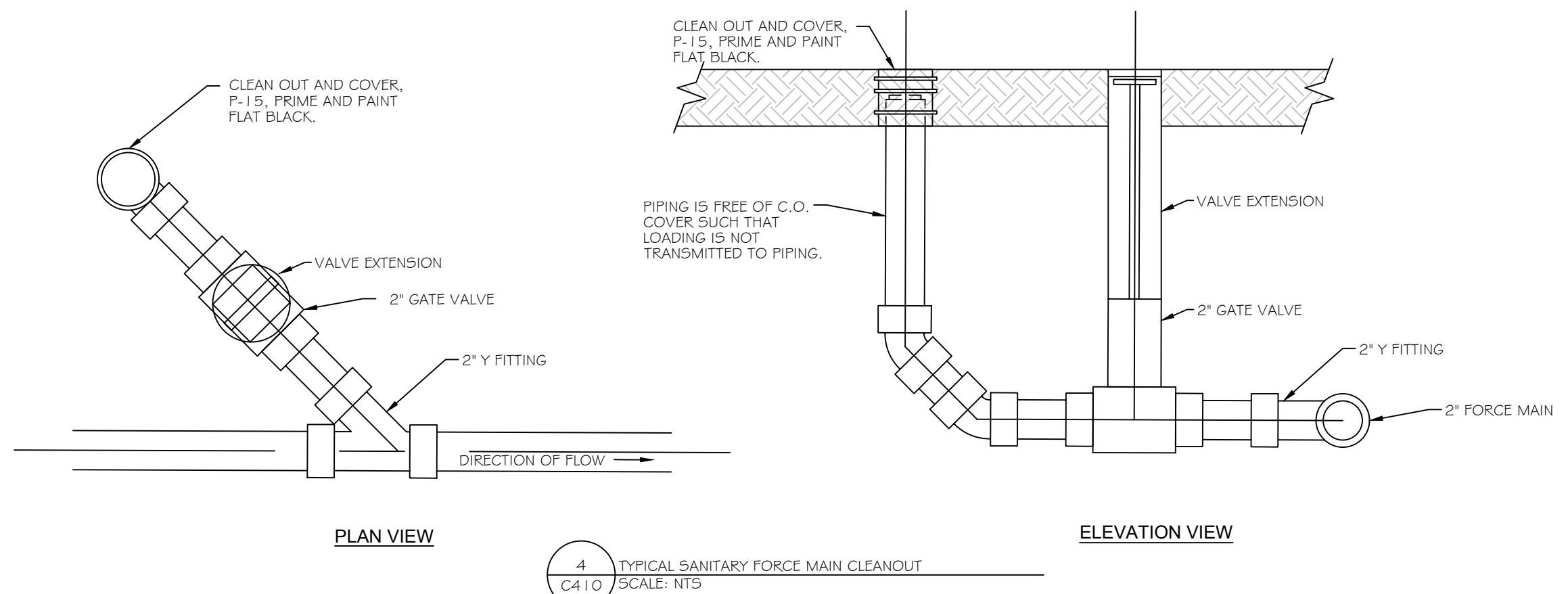


DISTRIBUTION BOX NOTES:

- PIPE JOINTS TO BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.
- INVERT ELEVATIONS OF ALL OUTLET PIPES MUST BE EQUAL. USE OF FLOW EQUALIZATION DEVICES IS RECOMMENDED.
- THE PIPE FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX INLET, SLOPED AT LEAST 1/8" PER FOOT - GRAVITY.
- THE SLOPE OF OUTLET PIPES (HEADER PIPES) BETWEEN THE DISTRIBUTION BOX AND DISTRIBUTOR LATERALS SHOULD BE AT LEAST 1/8" PER FOOT.
- BAFFLE REQUIRED FOR SIPHON OR AUTOMATIC DOSING OR IF INLET PIPE SLOPE EXCEEDS 1/8" PER FOOT.
- BAFFLE CAN BE BUILT IN OR A PIPE ELBOW OR TEE (T).
- THE BOXES SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.
- REFER TO PLAN VIEW FOR ACTUAL PIPE CONFIGURATION AND NUMBER OF OUTLETS.
- D-BOX SHALL HAVE COVER THAT IS VANDAL RESISTANT, CHILDPROOF AND REMOVABLE, AND A RISER THAT EXTENDS TO GRADE FOR INSPECTION AND ACCESS.
- SAND/PEA GRAVEL OR AGGREGATE SHALL EXTEND A MIN. OF 12" DEEP BELOW THE D-BOX AND AROUND THE SIDES. (TYP.)



NOTE:
 WATER MAIN CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN OUTSIDE PIPE O. ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.



These plans and details are the Approved Detailed Preliminary Plans for construction of UMS Property, LLC for a New Production Facility Site Plan 2023

As per planning board resolution No. _____, dated _____, 2023. These detailed preliminary site plans and details are certified to be in compliance with Planning Board conditions.

Town Planning Department _____ Date _____

Tim Palmer
 planning board chairman _____ Date _____

"As-built" construction drawings in accordance with article vii section 7.12 of the town of plattsburgh zoning ordinance shall be prepared and accepted by the town of plattsburgh prior to the issuance of a certificate of occupancy.

site plan improvements shall be constructed in accordance with and as shown on the approved detailed preliminary site plan.

Owner/Developer _____ Date _____

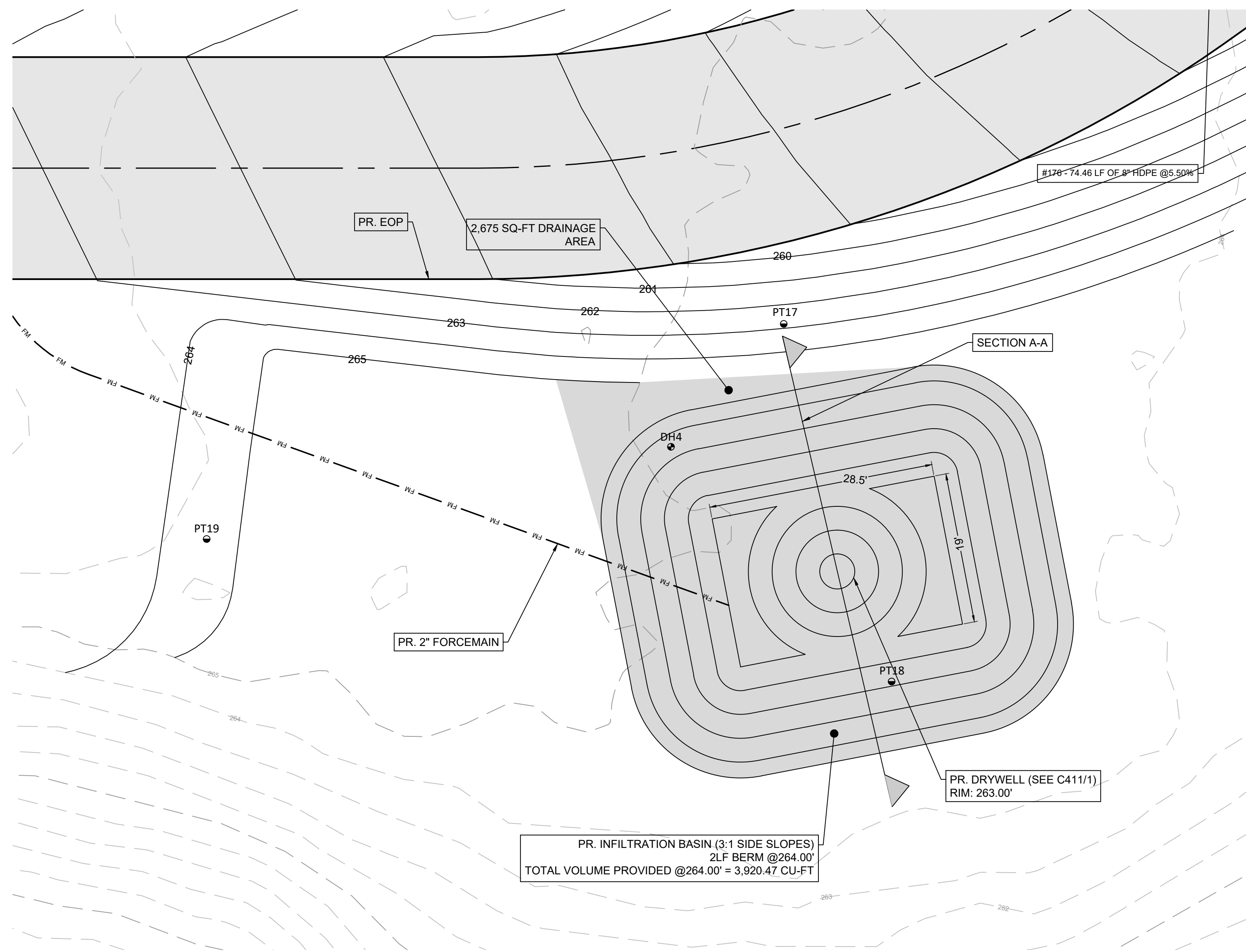
Note: The issuance of this authorization, approval or permit does not relieve the project applicant/sponsor of any responsibility for obtaining any other approvals/permits from any other federal, state, or local agency including the US Army Corps of Engineers (USACOE), and any utility companies which may be required.

| No. | Revision/Issue | Date |
|-----|----------------|------------|
| 1 | SPDES NOIA | 12/03/2024 |
| 2 | SPDES NOIA | 12/12/2024 |
| | | |
| | | |



Project Name & Address
 UMS Property, L.L.C.
 showing
 New Production Facility
 Site Plan 2023
 ~ Situate ~
 Clinton County Town of Plattsburgh State of New York

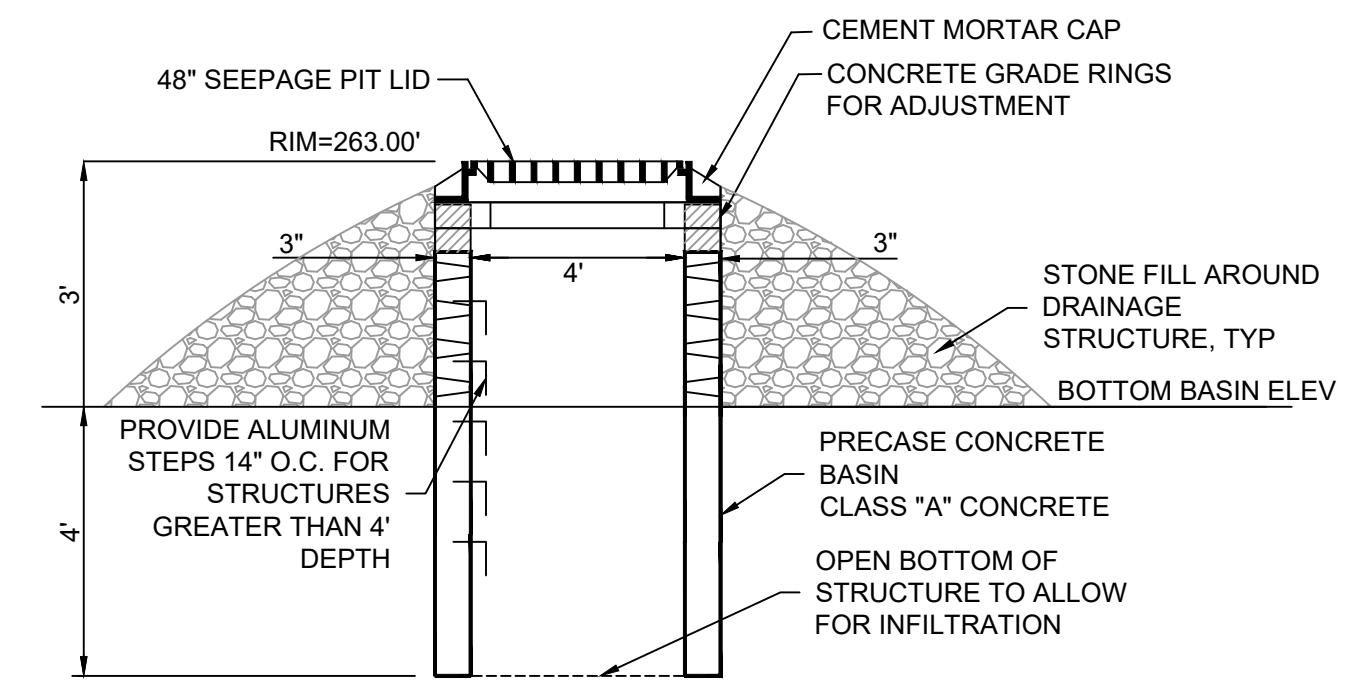
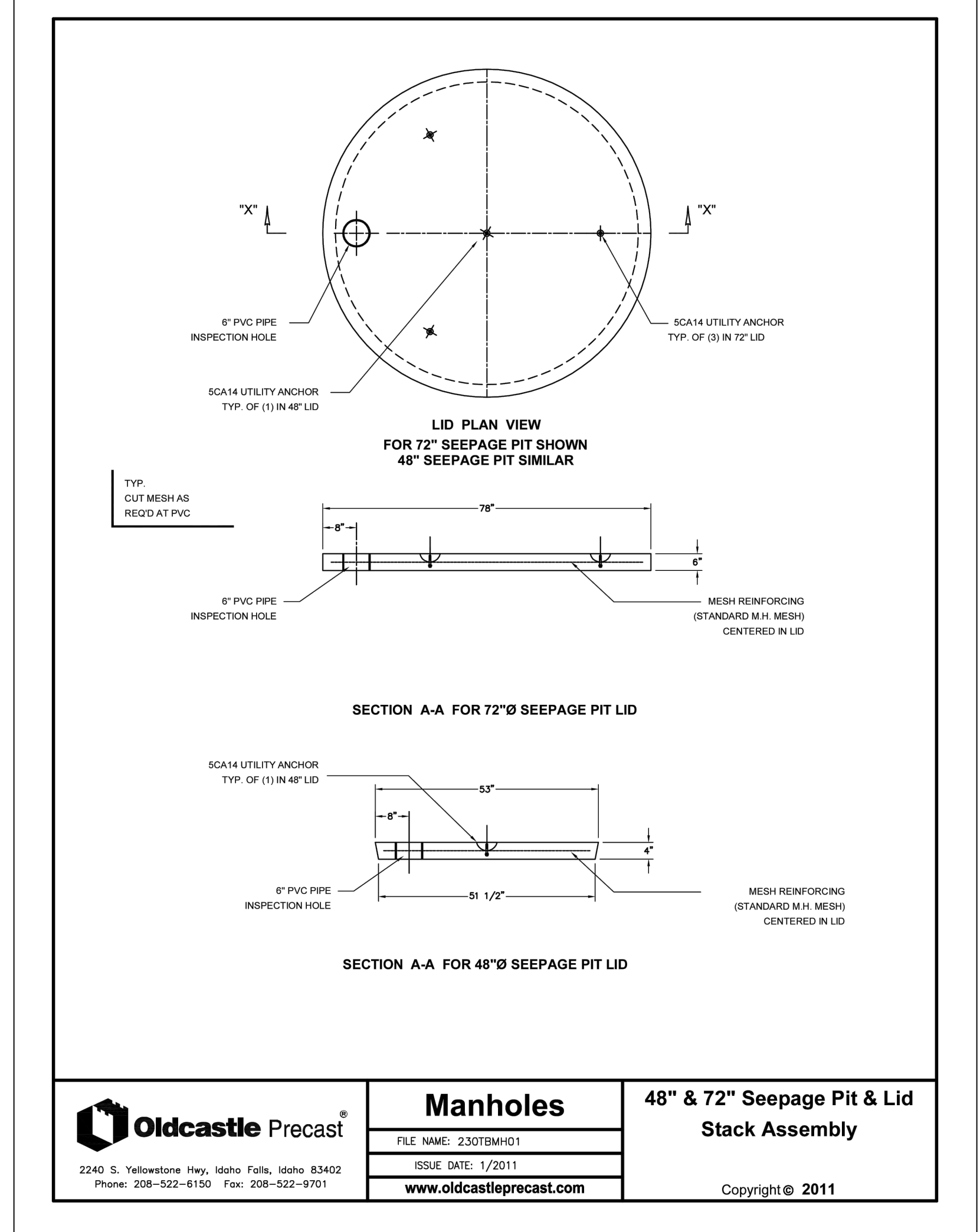
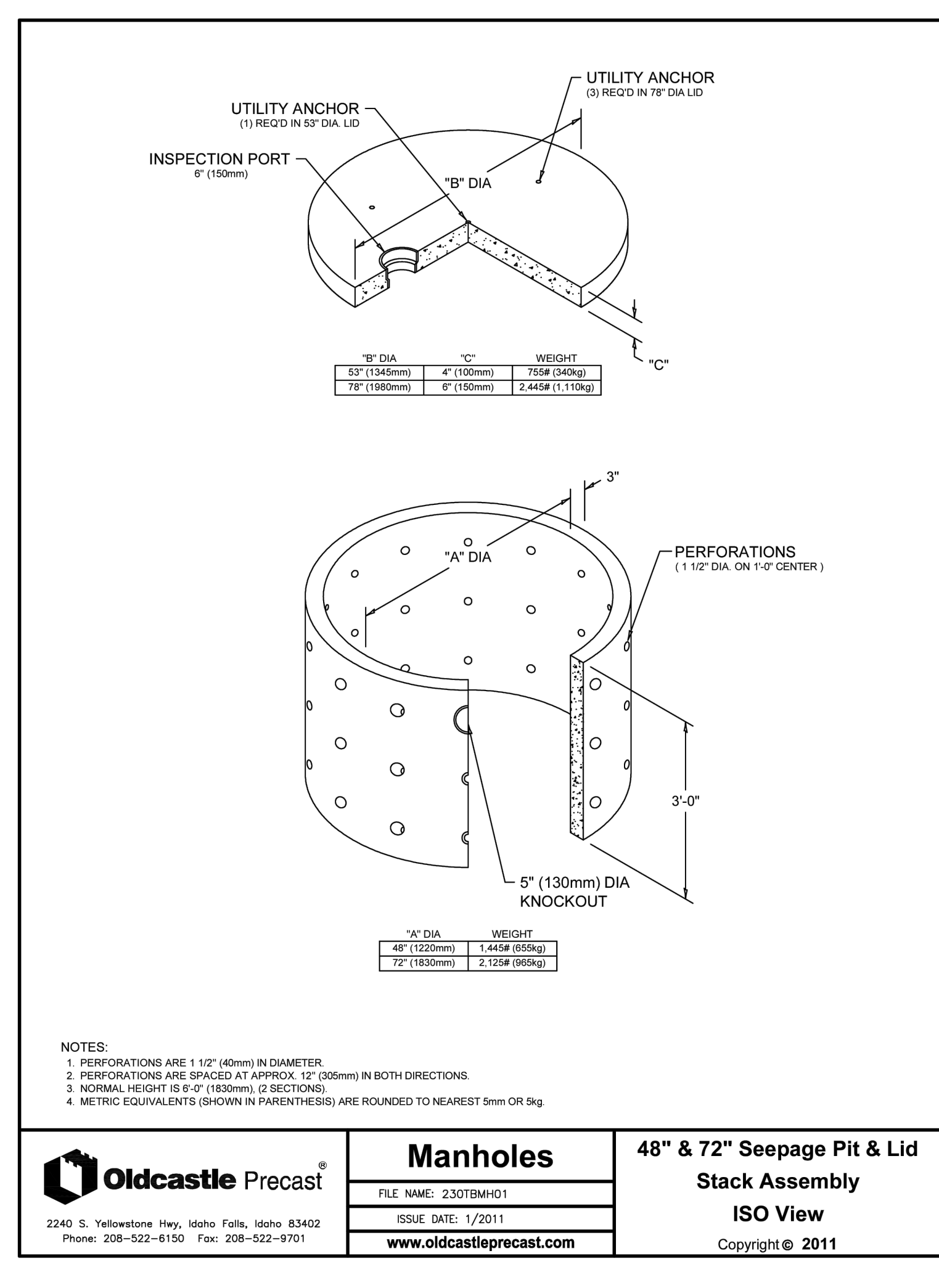
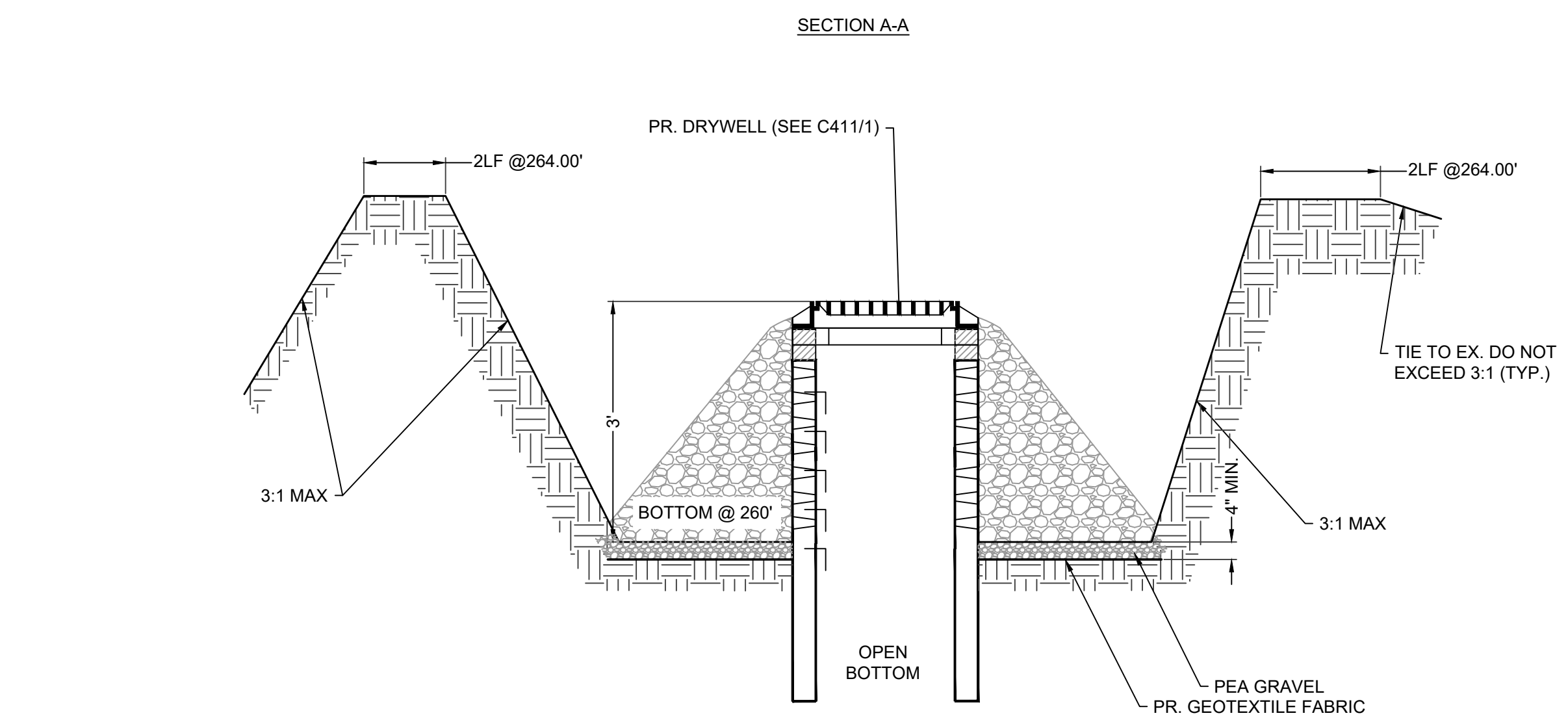
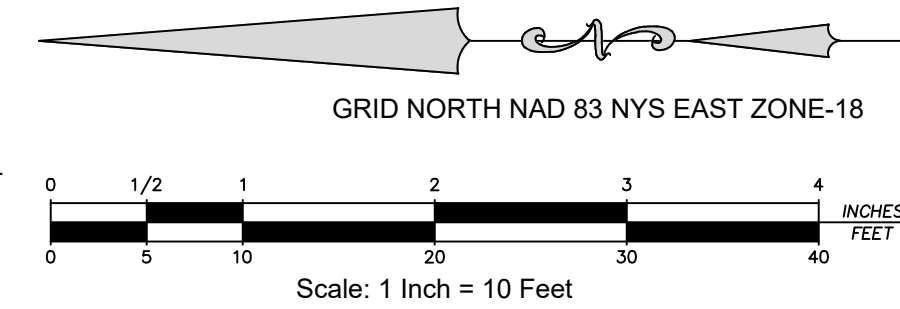
| Project # | Sheet |
|-----------|---|
| 21025 | Proposed Sanitary Sewer Notes and Details |
| Date | 10/14/2024 |
| Scale | 1" = 20' |
| Drawn | LSC/TJS |
| Checked | AJO |



INFILTRATION BASIN DESIGN CALCULATIONS

VOLUME REQUIRED = MAXIMUM DAILY FLOW FROM RO BACKWASH + V100 (100-YR RUNOFF VOLUME)
 Q (RO BACKWASH) = 15,173 GALLONS PER DAY x (1 CU-FT / 7.48 GALLONS) = 2,028.48 CU-FT PER DAY
 V100 (100-YR RUNOFF VOLUME) = 0.024 AF x (43,560 CU-FT / 1 AF) = 1,045.44 CU-FT
 VOLUME REQUIRED = 2,028.48 CU-FT + 1,045.44 CU-FT = 3,073.92 CU-FT
 LENGTH:WIDTH RATIO 1.5:1 -> (L=1.5W)
 HEIGHT OF BASIN = 4.00 FT
 VOLUME PROVIDED @ 263.00' = 2L² + 45L + 179.52
 IF Vreq = Vprov -> 2L² + 45L - 2,894.66 = 0
 USING QUADRATIC FORMULA -> L=28.42' MINIMUM
 CHECK L PROVIDED = 28.50' > 28.42'
 VOLUME PROVIDED @ 264.00' = 2.67L² + 80L - 528.24 = 0
 VOLUME PROVIDED @ 264.00' = (2.67 x 28.50²) + (80 x 28.50) - 528.24 = 3,920.47 CU-FT > 2,812.56 CU-FT
 EXFILTRATION FLOW (Q) = VA
 AREA OF EXFILTRATION (A) = 541.50 SQ-FT (BOTTOM AREA OF BASIN)
 EXFILTRATION VELOCITY (V) = 60 / P
 PERCOLATION RATE (P) = 2.5 MIN/IN
 V = 60 / P = (60 MIN/HR) / (2.5 MIN/IN) = 24 IN/HR x (1 FT / 12IN) = 2.00 FT/HR
 Q = VA = 2.00 FT/HR x 541.50 SQ-FT = 1,083.00 CU-FT/HR
 TIME TO DRAIN FULL BASIN = Vprov / Q = 3,920.47 CU-FT / 1,083.00 CU-FT/HR = 3.62 HR

DEEP HOLE #4:
 BY LABELLA ON 07/10/2023
 EXISTING GROUND: 261.00'
 0 - 8 FT FINE SAND WITH GRAVEL
 8 - 27 FT FINE SAND
 27 - 40 FT BROWN FINE SAND
 40 - 50 FT FINE SILTY SAND W/ GRAVEL
 >50 FT GRAY TILL
 SATURATED ELEVATION: 240.00'
 BEDROCK ELEVATION: 215.00'
 PR. BASIN BOTTOM: ~260.00'
 DEPTH TO GROUNDWATER: 20.00 FT
 DEPTH TO BEDROCK: 45.00 FT
 PERCOLATION TEST RATE #17-19:
 BY AJO ON 09/15/2023
 ELEVATION: 260.00' +/-
 TIME = 2.5 MINUTES/INCH



1
C411 INFILTRATION BASIN DRAINAGE STRUCTURE
 SCALE: NTS

These plans and details are the Approved Detailed Preliminary Plans for construction of UMS Property, LLC for a New Production Facility Site Plan 2023

As per planning board resolution No. _____, dated _____, 2023. These detailed preliminary site plans and details are certified to be in compliance with Planning Board conditions.

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Tim Palmer
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| | | |
|-----|----------------|------------|
| 1 | SPDES NOIA | 12/12/2024 |
| No. | Revision/Issue | Date |

RMS
 ROBERT M. SUTHERLAND P.C.
 ENGINEERS - PLANNERS - SURVEYORS
 SOIL & MATERIAL TESTING
 11 MACDONOUGH STREET, PLATTSBURGH, NY 12901
 518.561.6145(PH) 518.561.2496 (FX)
 R M S P C . C O M

Project Name & Address
 UMS Property, L.L.C.
 showing
 New Production Facility
 Site Plan 2023
 ~ Situate ~
 Clinton County Town of Plattsburgh State of New York

| | | | |
|-----------|------------|---------|---|
| Project # | 21025 | Sheet | Proposed Sanitary Sewer Notes and Details |
| Date | 12/03/2024 | Scale | 1" = 10' |
| Drawn | TJS | Checked | AJO |

Annual Drinking Water Quality Report for 2023

*Towns of Plattsburgh, Beekmantown, and Schuyler Falls, Clinton County New York
151 Banker Road, Plattsburgh, New York 12901*

Greater Plattsburgh Water District (ID# NY0900220)

Cliff Haven Water District (ID# NY0900218)

Schuyler Falls Morrisonville Water District (ID# NY0900226)

Southeast Beekmantown (includes Route 9/Spellman Rd) Water District (ID# NY0930048)

Parc Water District (ID# NY0930177)

Bluff Point Water District (ID# NY0916542)

Macey Lane Water District (ID# NY0930204)

INTRODUCTION

To comply with State regulations, the Town of Plattsburgh issues a report describing the quality of our drinking water. The purpose of this report is to raise awareness of drinking water and the need to protect our drinking water sources. This report provides an overview of last year's water quality. Included are details about where our water comes from, what it contains, and how it compares to State standards. If you have any questions concerning this report or our drinking water, please contact **the Water and Wastewater Department at (518) 562-6890** or **the Clinton County Health Department at (518) 565-4870**. We want you to be informed about your drinking water.

WHERE DOES OUR WATER COME FROM?

In general, the sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water source is groundwater drawn from five deep wells. The wells are located in a predominant sandstone, aquifer. Two wells are located on Route 3 and the others are off the Bullis Road. As per Clinton County and New York State requirements, the Town of Plattsburgh water is disinfected with chlorine, and fluoride is added prior to distribution. Details can be found in "Are there Contaminants in Our Drinking Water?" section of this report.

FACTS AND FIGURES

Our water system serves over 10,000 residents in the Greater Plattsburgh, Bluff Point, Cliff Haven, Southeast Beekmantown, PARC, Morrisonville and Macey Lane districts. During 2023, the total amount of water produced was 451,896,000 gallons, with approximately 94% of that billed directly to the customers. The balance, approximately 6%, was used for firefighting purposes, hydrant use and distribution system leaks. In 2023, an average family used approximately 31,959 gallons of water per quarter, at a cost of \$3.77/1,000 gallons, for a water bill of approximately \$131.02 per quarter.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test our drinking water for numerous contaminants. These contaminants include: total coliform, asbestos, fluoride, total gross alpha particle activity, primary inorganic chemicals, nitrate, lead and copper, principal organic chemicals, disinfection byproducts, synthetic organic chemicals, Radium 226 and Radium 228. The table presented on the next page depicts which compounds were detected in our drinking water. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

It should be noted that all drinking water, including bottled drinking water, might be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 800-426-4791 or the Clinton County Health Department at 518-565-4870.

The NYS DOH has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The state source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

As mentioned before, our water is derived from five drilled wells. The source water assessment has rated these wells as having a medium-high susceptibility to microbes and nitrates. These ratings are due primarily to the close proximity of a permitted discharge facility (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government). County and state health departments will use this information to direct future source water protection activities. These may include additional water quality monitoring, resource management, planning, and education programs.

This table shows the results of our monitoring for the period of January 1 to December 31, 2023.

| TEST RESULTS | | | | | | | | |
|---|---------------|-------------|-----------|--------------------|--------------|------|----------|--|
| Contaminant | Violation Y/N | Sample Date | Result | Range Detected/RAA | Unit Measure | MCLG | MCL | Likely Source of Contamination |
| Disinfection Byproducts | | | | | | | | |
| Total Trihalomethanes (TTHM) | N | | | | ug/l | | 80 | By-product of drinking water chlorination needed to kill harmful organisms. |
| Greater Plattsburgh | N | 7/12/23 | 4.7 | | | | | |
| Macey Lane | N | 7/26/22 | 3.8 | | | | | |
| Southeast Beekmantown | N | 8/21/23 | 3.9 | | | | | |
| PARC | N | 8/21/23 | 2.3 | | | NA | | |
| Bluff Point | N | 8/21/23 | 6.5 | | | | | |
| Cliff Haven | N | 8/3/21 | 3.0 | | | | | |
| Morrisonville | N | 8/18/23 | 3.9 | | | | | |
| Total Haloacetic Acids (HAA5) | | | | | | | | |
| Southeast Beekmantown | N | 08/21/23 | 1.3 | | ug/l | | 60 | |
| Cliff Haven | | 08/03/21 | 1.1 | | | | | |
| Inorganic Contaminants | | | | | | | | |
| Fluoride (a) | N | Monthly | 0.3 | 0.2 – 0.6 | mg/l | 4 | 2.2 | Water additive that promotes strong teeth; Erosion of natural deposits. |
| Greater Plattsburgh | | | | | | | | |
| Nitrate | N | 3/6/23 | 0.19 | | mg/l | 10 | 10 | Runoff from fertilizer; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| Greater Plattsburgh | | | | | | | | |
| Nickel | N | 3/14/23 | 0.6 | | ug/l | NA | NA | Naturally occurring, industrial uses |
| Greater Plattsburgh | | | | | | | | |
| Fluoride | N | 3/14/23 | 0.37 | | mg/l | NA | 2.2 | Erosion of natural deposits |
| Greater Plattsburgh | | | | | | | | |
| Lead (c) | | | | | | | | Corrosion of household plumbing systems; Erosion of natural deposits. |
| Cliff Haven (d) – 90 th % (16) | N | 6/8/22 | 0.0023 | <0.001-0.0031 | mg/l | NA | AL=0.015 | |
| Morrisonville (Schuyler Falls)(d) – 90 th % (13) | N | 6/7/22 | <0.001 | <0.001- <0.001 | | | | |
| Macey Lane (b) – 90 th % (7) | N | 6/8/21 | 0.001 | <0.001–0.0019 | | | | |
| PARC (b) – 90 th % (5) | N | 6/8/21 | 0.0014 | <0.001-0.0020 | | | | |
| GPA (b) – 90 th % (31) | N | 6/8/21 | 0.0014 | <0.001-0.0027 | | | | |
| Copper (c) | | | | | | | | |
| Cliff Haven (d) – 90 th % (16) | N | 6/8/22 | 0.14 | <0.020-0.31 | mg/l | 1.3 | AL=1.3 | |
| Morrisonville (Schuyler Falls)(d) – 90 th % (13) | N | 6/7/22 | 0.27 | 0.040-0.290 | | | | |
| Macey Lane (b) – 90 th % (7) | N | 6/8/21 | 0.087 | 0.023-0.12 | | | | |
| PARC(b) – 90 th % (5) | N | 6/8/21 | 0.28 | 0.10 -0.28 | | | | |
| GPA (b) – 90 th % (37) | N | 6/8/21 | 0.12 | <0.02 - 0.13 | | | | |
| Synthetic Organic Contaminants | | | | | | | | |
| Perfluorooctanoic Acid (PFOA) GPA Well 6 | N | 4/17/23 | 3.18 | | ng/L | NA | 10 | Released into the environment from widespread use in commercial and industrial applications. |
| PFHxA (f) Well 1 Perfluorohexanoic Acid | N | 2/1/22 | 0.679 (e) | | ng/L | NA | 50000 | |
| PFHxA (f) Well 6 Perfluorohexanoic Acid | N | 4/17/23 | 1.59 (e) | | ng/L | NA | 50000 | |
| PFHpA (f) Well 6 Perfluoroheptanoic Acid | N | 4/17/23 | 2.44 | | ng/L | NA | 50000 | |
| PFBA (f) Well 6 Perfluorobutanoic Acid | N | 4/17/23 | 0.702 (e) | | ng/L | NA | 50000 | |
| PFPeA (f) Well 6 Perfluoropentanoic Acid | N | 4/17/23 | 1.33 (e) | | ng/L | NA | 50000 | |

NOTES:

- a. The result is the average for the year 2023.
- b. The action levels for lead and copper were not exceeded at the test sites.
- c. The result represents the 90th percentile of the sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the lead and/or copper values detected in our water system
- d. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than a year old.
- e. Estimated Value – This represents an estimated concentration for Tentatively Identified Compounds (TIC's).
- f. All perfluoroalkyl substances, besides PFOA & PFOS, are considered Unspecified Organic Contaminants (UOC) which have an MCL = 0.05 mg/L.

DEFINITIONS:

Maximum Contaminant Level (MCL): The highest level of a contaminant that allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Non-Detects (ND): Laboratory analysis indicates that the constituent is not present.

Milligrams per liter (mg/l): Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

RAA: Running annual average

BRL: Below reportable level

WHAT DOES THIS INFORMATION MEAN?

Water quality for the Greater Plattsburgh Water District has always been of exceptional quality. Water quality of all wells meets current Health Department requirements. The Town collects ten monthly samples in Greater Plattsburgh, two in Morrisonville, one in each Southeast Beekmantown, Bluff Point and Cliff Haven for total coliform and E. coli analysis. In addition, one quarterly sample is collected from PARC and Macey Lane. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State.

Lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Town of Plattsburgh is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact our office. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

We are required to monitor our drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. Our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

In this reporting period, the Greater Plattsburgh Water District experienced incidents requiring "Boil Water" notices. None of these incidents were a result of system contamination, but were issued as precautions due to system leaks, breaks or pressure reductions. GPA did not have any Boil Water Orders in 2023.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline at 800-426-4791.

Our system is one of the many drinking water systems in New York State that provides drinking water with a controlled, low level of fluoride for consumer dental health protection. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal level of 0.7 mg/l. To ensure that the fluoride supplement in your water provides optimal dental protection, the State Department of Health requires that we monitor fluoride levels on a daily basis. During 2023, monitoring results showed fluoride levels well below the 2.2 mg/l MCL for fluoride.

WATER CONSERVATION

Local Law No. 2 of Section 87.31 amended in 1991 provides steps for water conservation/drought procedures for emergency situations. The following recommendations can help conserve, which will reduce treatment and pumping costs:

- ✓ Check faucets, pipes and toilets for leaks and repair them. Leaks may use thousands of gallons of water each year;
- ✓ Use your automatic dishwasher and washing machine with full loads;
- ✓ Avoid unnecessary car washing, when doing so, do not leave water running; and
- ✓ Keep a bottle of water in the refrigerator rather than running water until it is cold.
- ✓ The installation of a lawn irrigation system requires that an acceptable backflow device be installed;
- ✓ Abandoned, privately owned water wells should be properly sealed and capped to protect our underground water sources. The Clinton County Health Department can provide property owners with proper and safe abandonment measures.

CLOSING

Thank you for continuing to allow us to provide you with quality drinking water. In order to maintain a safe and dependable water supply, we sometimes need to make improvements that will benefit all of our customers. We ask all our customers to help us protect our water sources, which is the heart of our community. Please call our office at 518-562-6890 if you have questions.



**4 New Park Road
East Windsor, CT 06088
860-218-1060 Fax: 860-528-**

Date Collected: Unknown
Date Received: 07/28/17
Date Analyzed: 07/28/17

Blake WATER SOLUTIONS - A Blake Group Company

Customer: Schuster Systems

Dealer:

Distributor: Blake Equipment

13 Thatcher Street

Albany, NY 12207

Control Number: R728A

Analysis Results:

Hardness of 1 to 3.5 – Slightly Hard 3.5 to 7.0 – Moderately Hard 7.0 to 10.5 – Hard 10.5 and over – Very Hard

| | | | |
|-------------------|------|-------------------------------|---|
| Iron: | 0.01 | PPM as Fe | Over 0.3PPM stains plumbing fixtures and clothes |
| pH: | 8.31 | units | 7.0 indicates water is neutral, over 7.0 is alkaline, 6.8 or under is corrosive |
| Hardness: | 8 | gpg as CaCO ₃ | Over 3.5 gpg wastes soap, forms scale, clogs hot water heater and pipes |
| Manganese: | N/D | ppm as Mn | Over 0.05ppm stains plumbing fixtures and clothes |
| Tannin: | N/T | ppm as tannic acid | Causes light tea colored water and possible filter plugging |
| Chlorides | N/T | calc ppm as CaCO ₃ | Over 250 ppm may have a salty taste to the water |
| TDS: | 190 | ppm as CaCO ₃ | Total dissolved solids, 500 ppm is EPA suggested maximum contaminant level |
| Turbidity: | N/D | NTU units | Amount of visible dirt and suspended matter in water |
| Color: | N/D | units | Caused by substance in solution |
| Suspended Matter: | N/D | | As detected in sample |
| Iron Bacteria: | N/D | | As detected visually in sample |
| Odor: | ** | | As detected in sample |
| Rust: | N/D | | As detected visually in sample |
| Sodium: | 53* | ppm | Based on a calculation derived from TDS and hardness |
| UVT: | >85% | Percent | Percentage of Ultraviolet light transmitted through the sample** |

* The level of Sodium reported is the TOTAL amount of dissolved mineral present (TDS) after softening. If sodium levels are a concern we recommend a comprehensive state-certified test to accurately determine the sodium mineral content.

** 85% or greater assures germicidal effectiveness of Ultraviolet systems providing Manufactures pretreatment guidelines are met.

Recommendations:

The following recommendation is based on the submitted water sample and the information furnished. Should the water characteristics change in the future, a new analysis will be needed and different treatment may be recommended.

Primary Recommendation:

Service Water:

Drinking Water:

| | | |
|--|-------------------------------|--|
| | Order of Installation: | |
|--|-------------------------------|--|

Remarks:

Sample is clear; mild chlorine odor detected. Water is hard. All other tested parameters are within guidelines.

SPDES Permit Application Supplemental Information Form

§ 70-0117 Demonstration: Consideration of Future Physical Climate Risk

Following the 2019 Climate Leadership and Community Protection Act (Climate Act), which amended the 2014 Community Risk and Resiliency Act (CRRRA), SPDES permit applicants for “major” projects¹ are required to demonstrate consideration of future physical climate risks, including those due to sea level rise, storm surges, and flooding. This form has been developed to assess relevant information to comply with the requirements to consider climate risks.

Applicants should review the [Flood Risk Management Guidance](#) or [Asset Management Guide for Publicly Owned Treatment Works](#) to identify current and future flood elevations, and to review examples of risk mitigation strategies. The community Floodplain Administrator may be a good resource and can be found by emailing DEC at floodplain@dec.ny.gov.

For all fields provided below, applicants may attach additional sheets as necessary.

| Facility | | | |
|--|--|--|--|
| 1. a. Facility name | Production Facility KB4 | b. SPDES No. | |
| 2. a. Does the facility discharge to a tidal waterbody? (Y/N) | N | b. If yes, what is the high projection for sea level rise (SLR) in 6 NYCRR 490 for the regional area? (feet) | |
| 3. Please describe the type and extent of any past flooding events at the facility. | No known flooding events at the facility. | | |
| 4. What are the applicable Flood Insurance Rate Map (FIRM) Nos. and effective dates? | 36019C0613E, effective 12/7/2023 & 36019C0611E, effective 12/7/2023 | | |
| 5. a. Is any portion of the facility located in a FEMA designated flood zone? If yes, what is the zone type? If no, are there adjacent flood zones that could be considered or skip to question 6. | No | | |
| b. What is the lowest ground elevation at the facility? (ft) | | | |
| c. What is the Base Flood Elevation (BFE) at the facility? (ft) | | | |
| d. What is the Future BFE for the facility based on the NYS Flood Risk Management Guidance ? <i>Tidal Areas: BFE + SLR (Method 4)</i> <i>Non-Tidal Areas: Q100 (Method 3 or use available flood profiles from Flood Insurance maps)</i> | | | |
| e. What is the target elevation for <u>critical</u> equipment? Future BFE + 3 feet | | | |
| f. Compare questions 5.b. and 5.e. Is the <u>target elevation</u> greater than the <u>lowest ground elevation</u> ? | | | |
| 6. What climate risk mitigation measures are in place at the facility? Are any future projects anticipated that provide further opportunity to address climate risk? | Groundwater testing reported water table at 20' below existing grade.. | | |
| 7. For applications involving facility changes, have any other types of future physical climate risks been considered, including tropical and extratropical cyclones, wind, and changes in average/peak precipitation and temperature? | Not Applicable | | |

¹ “Major” projects are those identified in Uniform Procedures Act regulations at 6 NYCRR 621.4.

| Pump/Lift Station(s) | |
|---|--|
| 8. Are there pump/lift station(s) owned by the permittee? If yes, how many? If no, skip to Certification | Yes, 3 Pump Stations |
| 9. Please describe the type and extent of any past flooding events at the pump/lift station(s). | No known flooding events at the facility. |
| 10. What are the applicable Flood Insurance Rate Map (FIRM) Nos. and effective dates? | 36019C0613E, effective 12/7/2023 & 36019C0611E, effective 12/7/2023 |
| 11. a. Are any pump/lift stations located in a FEMA designated flood zone? If yes, which stations and what zone type? If no, skip to question 12 | No |
| b. What is the lowest ground elevation at each pump/lift station? (ft) | |
| c. What are the BFEs , future BFEs, and target elevations for critical equipment (future BFE + 3 ft) for each pump/lift station? | |
| d. Compare questions 10.b. and 10.c. Are any pump/lift stations below the target elevation? | |
| 12. What climate risk mitigation strategies are in place at the pump/lift stations? Are any future projects anticipated that provide further opportunity to address climate risk? | Groundwater testing reported water table at 20' below existing grade.. |

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

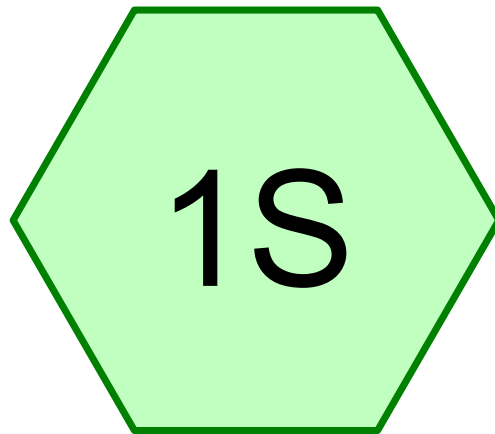
I have demonstrated consideration of current and future physical climate risk.

| | |
|---|---------------------------------------|
| Name (print or type first and last name) Matt Bokus | Official Title EH&S Manager |
| Signature <i>Matt Bokus</i> | Date Signed 10/29/24 |

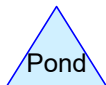
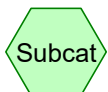
List of Attachments

Additional Resources/Information

- Flood Risk Management Guidance - <https://www.dec.ny.gov/energy/102559.html>
- Estimating Guideline Elevations - https://www.dec.ny.gov/docs/administration_pdf/craestelevguidelines.pdf
- Asset Management Guide - <https://www.dec.ny.gov/chemical/101412.html>
- Sea Level Rise Projections - <https://www.dec.ny.gov/regulations/103877.html>
- Ground Elevations - <https://ngmdb.usgs.gov/topoview/viewer/#13/43.2885/-74.4839>
- Flood Insurance Rate Maps - <https://msc.fema.gov/portal/home>
- Ten State Standards – <https://www.health.state.mn.us/communities/environment/water/docs/tenstates/tenstatestan2014.pdf>
- TR-16 – <https://neiwpc.org/learning-center/tr-16-guides-design-wastewater-treatment-works/>



(new Subcat)



21025 PR - Infiltration Basin

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Page 2

Area Listing (all nodes)

| Area (acres) | CN | Description (subcatchment-numbers) |
|-----------------|-----------|---------------------------------------|
| 0.004 | 80 | >75% Grass cover, Good, HSG D (1S) |
| 0.057 | 98 | Water Surface, HSG D (1S) |
| 0.061 | 97 | TOTAL AREA |

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Page 3

Soil Listing (all nodes)

| Area (acres) | Soil Group | Subcatchment Numbers |
|-----------------|---------------|-------------------------|
| 0.000 | HSG A | |
| 0.000 | HSG B | |
| 0.000 | HSG C | |
| 0.061 | HSG D | 1S |
| 0.000 | Other | |
| 0.061 | | TOTAL AREA |

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Ground Covers (all nodes)

| HSG-A (acres) | HSG-B (acres) | HSG-C (acres) | HSG-D (acres) | Other (acres) | Total (acres) | Ground Cover | Subcatchment Numbers |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------------|-------------------------|
| 0.000 | 0.000 | 0.000 | 0.004 | 0.000 | 0.004 | >75% Grass cover, Good | 1S |
| 0.000 | 0.000 | 0.000 | 0.057 | 0.000 | 0.057 | Water Surface | 1S |
| 0.000 | 0.000 | 0.000 | 0.061 | 0.000 | 0.061 | TOTAL AREA | |

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NY -Schluter 24-hr S1 1-yr Rainfall=1.87"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points x 2
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 1S: (new Subcat)

Runoff Area=2,674 sf 93.01% Impervious Runoff Depth=1.54"
Tc=6.0 min CN=97 Runoff=0.15 cfs 0.008 af

Total Runoff Area = 0.061 ac Runoff Volume = 0.008 af Average Runoff Depth = 1.54"
6.99% Pervious = 0.004 ac 93.01% Impervious = 0.057 ac

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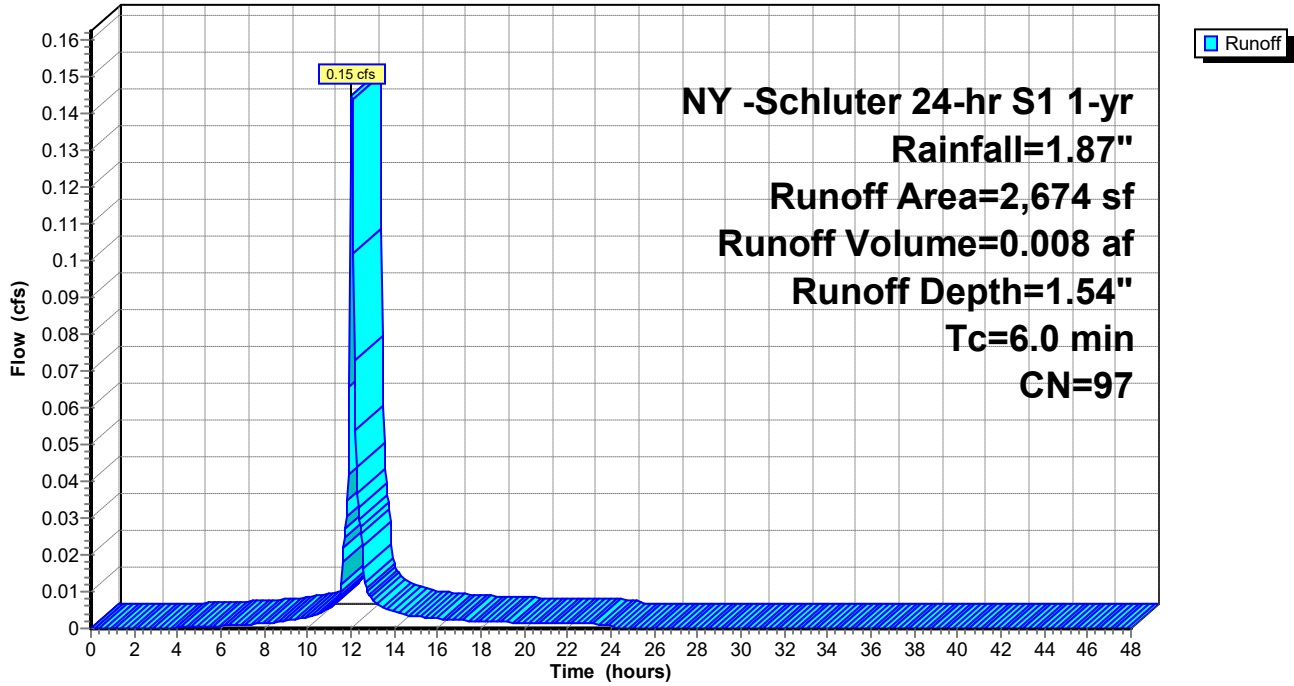
NY -Schluter 24-hr S1 1-yr Rainfall=1.87"

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Subcatchment 1S: (new Subcat)

Hydrograph



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NY -Schluter 24-hr S1 2-yr Rainfall=2.14"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points x 2
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 1S: (new Subcat)

Runoff Area=2,674 sf 93.01% Impervious Runoff Depth=1.81"
Tc=6.0 min CN=97 Runoff=0.16 cfs 0.009 af

Total Runoff Area = 0.061 ac Runoff Volume = 0.009 af Average Runoff Depth = 1.81"
6.99% Pervious = 0.004 ac 93.01% Impervious = 0.057 ac

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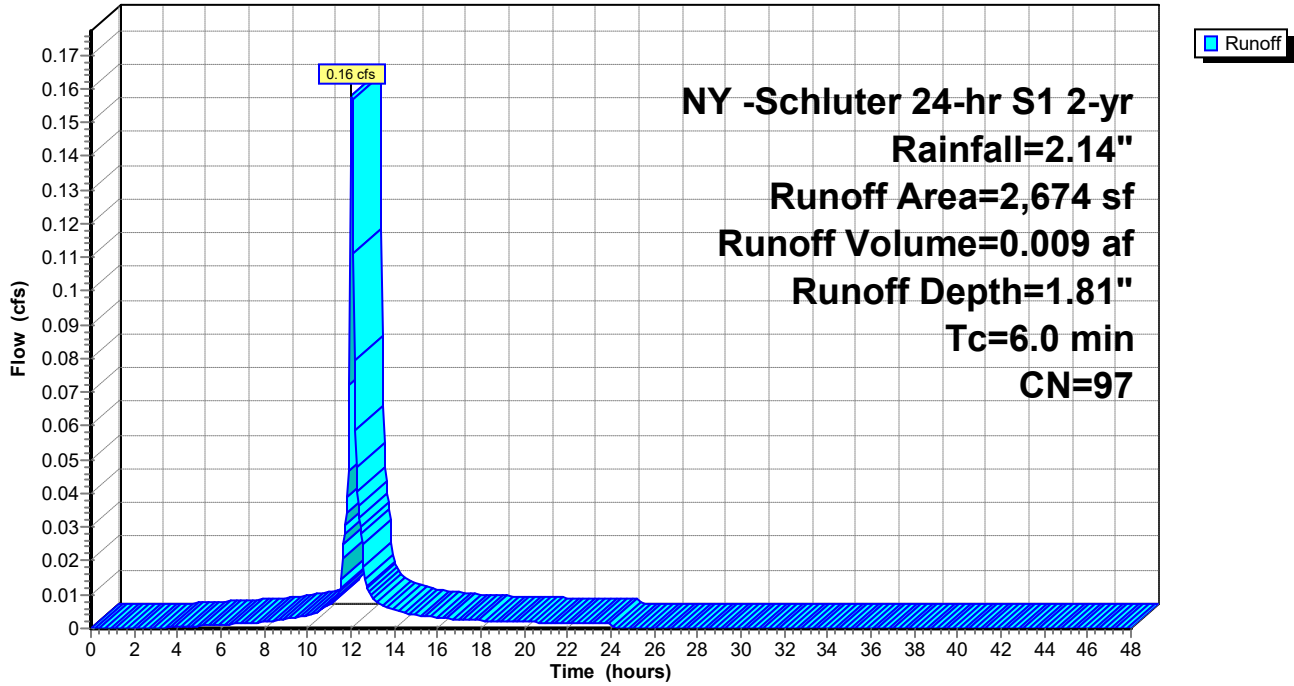
NY -Schluter 24-hr S1 2-yr Rainfall=2.14"

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Subcatchment 1S: (new Subcat)

Hydrograph



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NY -Schluter 24-hr S1 5-yr Rainfall=2.61"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points x 2
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 1S: (new Subcat)

Runoff Area=2,674 sf 93.01% Impervious Runoff Depth=2.27"
Tc=6.0 min CN=97 Runoff=0.19 cfs 0.012 af

Total Runoff Area = 0.061 ac Runoff Volume = 0.012 af Average Runoff Depth = 2.27"
6.99% Pervious = 0.004 ac 93.01% Impervious = 0.057 ac

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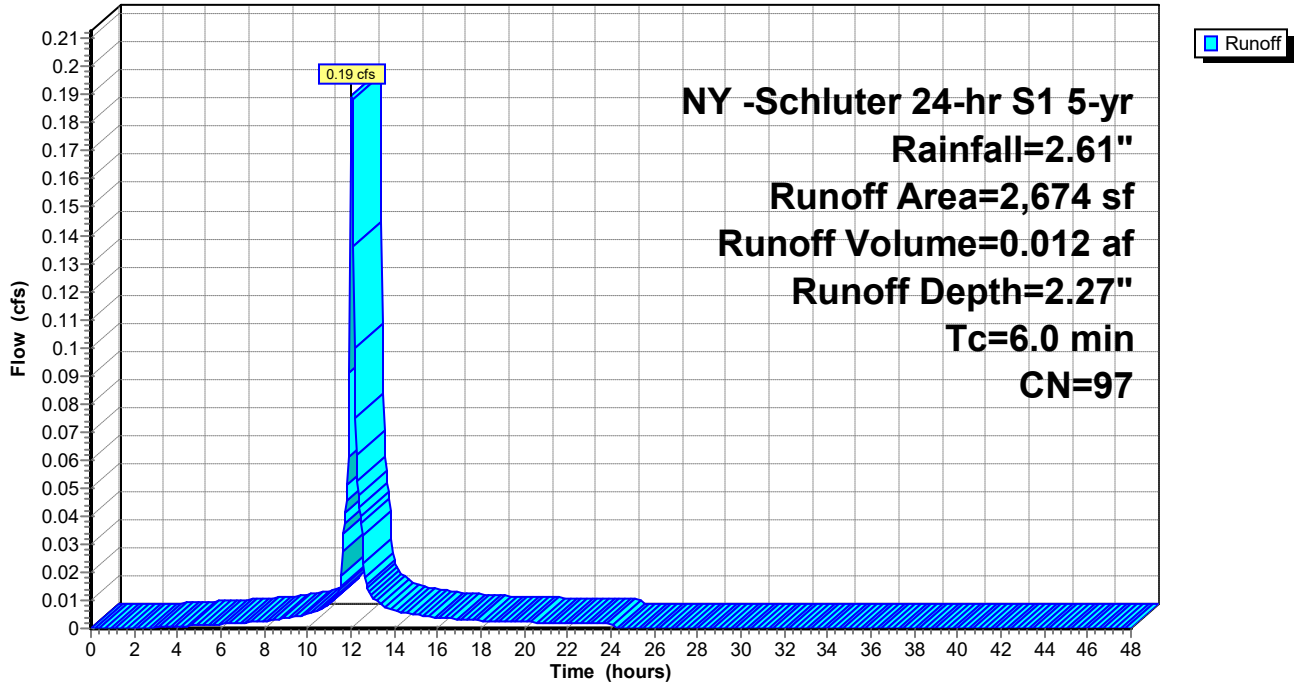
NY -Schluter 24-hr S1 5-yr Rainfall=2.61"

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Subcatchment 1S: (new Subcat)

Hydrograph



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NY -Schluter 24-hr S1 10-yr Rainfall=3.04"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points x 2
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

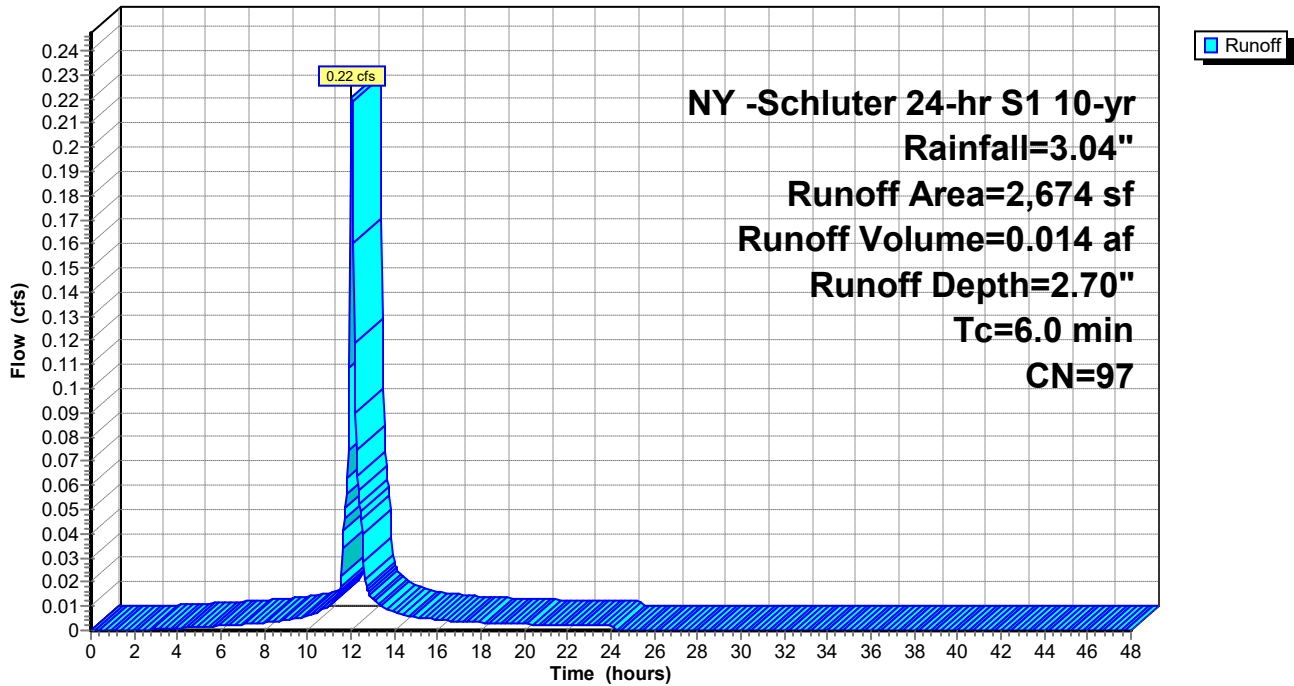
Subcatchment 1S: (new Subcat)

Runoff Area=2,674 sf 93.01% Impervious Runoff Depth=2.70"
Tc=6.0 min CN=97 Runoff=0.22 cfs 0.014 af

Total Runoff Area = 0.061 ac Runoff Volume = 0.014 af Average Runoff Depth = 2.70"
6.99% Pervious = 0.004 ac 93.01% Impervious = 0.057 ac

Subcatchment 1S: (new Subcat)

Hydrograph



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NY -Schluter 24-hr S1 25-yr Rainfall=3.71"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points x 2
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 1S: (new Subcat)

Runoff Area=2,674 sf 93.01% Impervious Runoff Depth=3.36"
Tc=6.0 min CN=97 Runoff=0.27 cfs 0.017 af

Total Runoff Area = 0.061 ac Runoff Volume = 0.017 af Average Runoff Depth = 3.36"
6.99% Pervious = 0.004 ac 93.01% Impervious = 0.057 ac

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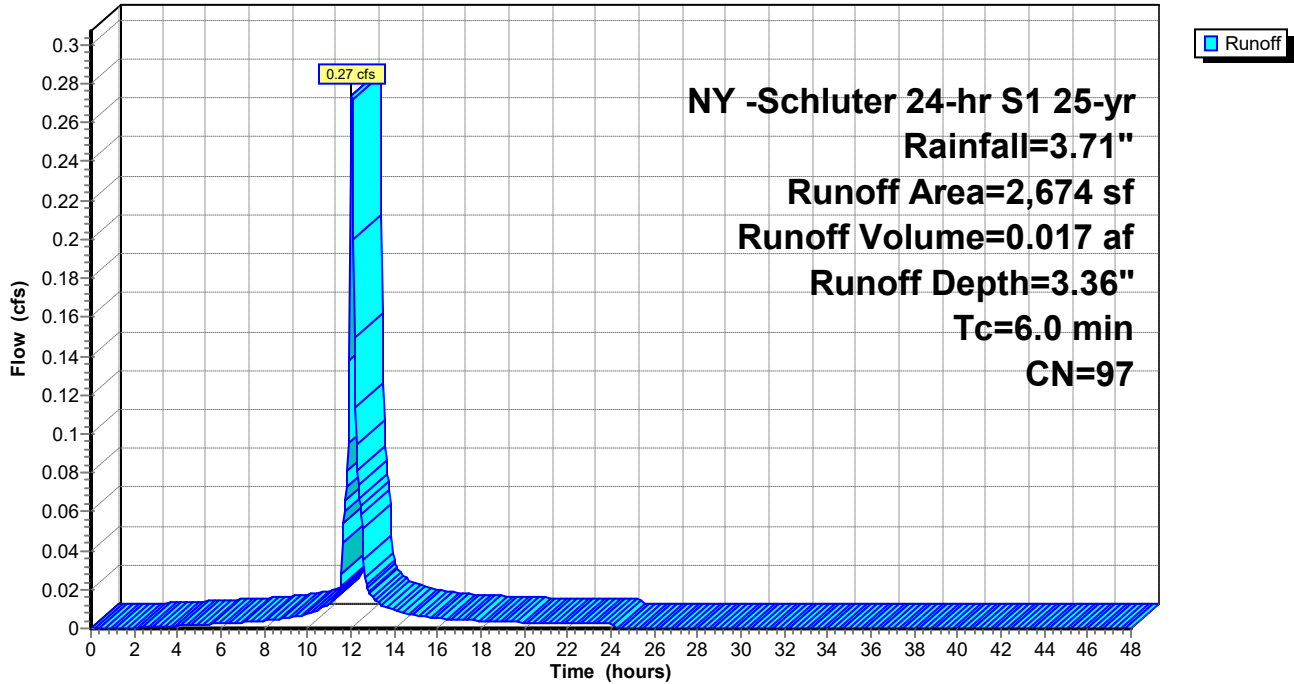
NY -Schluter 24-hr S1 25-yr Rainfall=3.71"

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Subcatchment 1S: (new Subcat)

Hydrograph



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NY -Schluter 24-hr S1 50-yr Rainfall=4.32"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points x 2
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 1S: (new Subcat)

Runoff Area=2,674 sf 93.01% Impervious Runoff Depth=3.97"
Tc=6.0 min CN=97 Runoff=0.32 cfs 0.020 af

Total Runoff Area = 0.061 ac Runoff Volume = 0.020 af Average Runoff Depth = 3.97"
6.99% Pervious = 0.004 ac 93.01% Impervious = 0.057 ac

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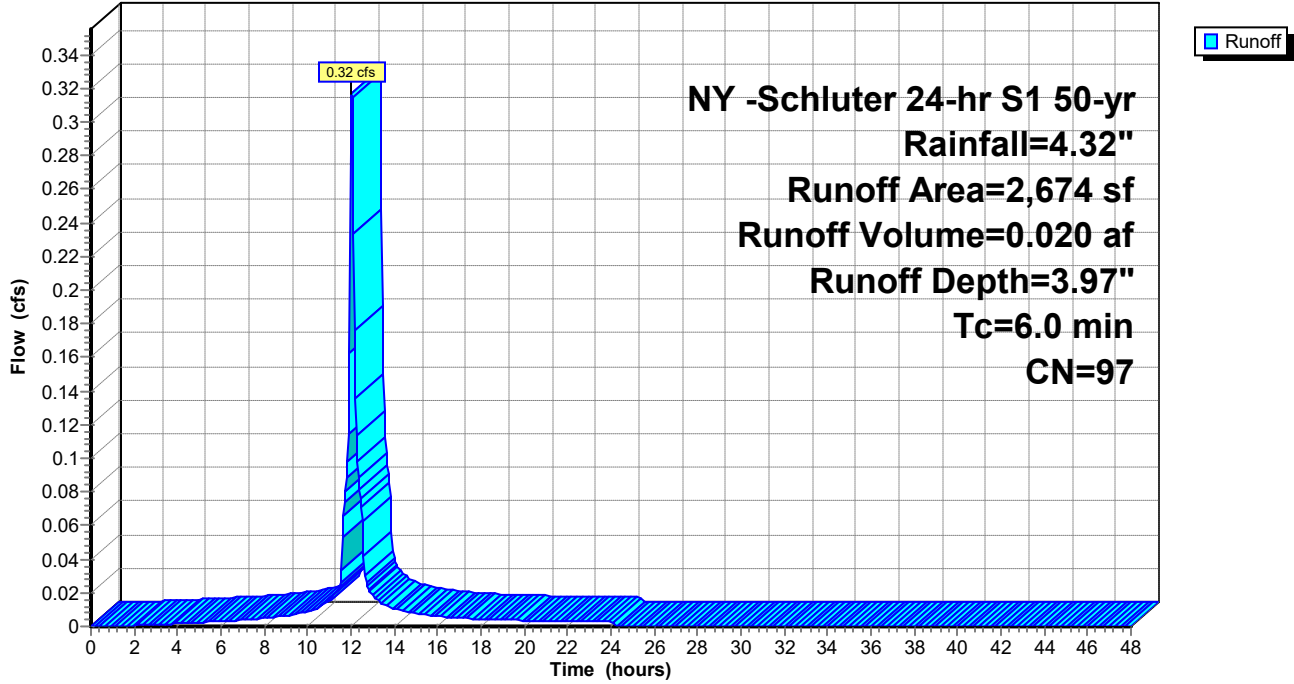
NY -Schluter 24-hr S1 50-yr Rainfall=4.32"

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Subcatchment 1S: (new Subcat)

Hydrograph



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NY -Schluter 24-hr S1 100-yr Rainfall=5.03"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points x 2
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

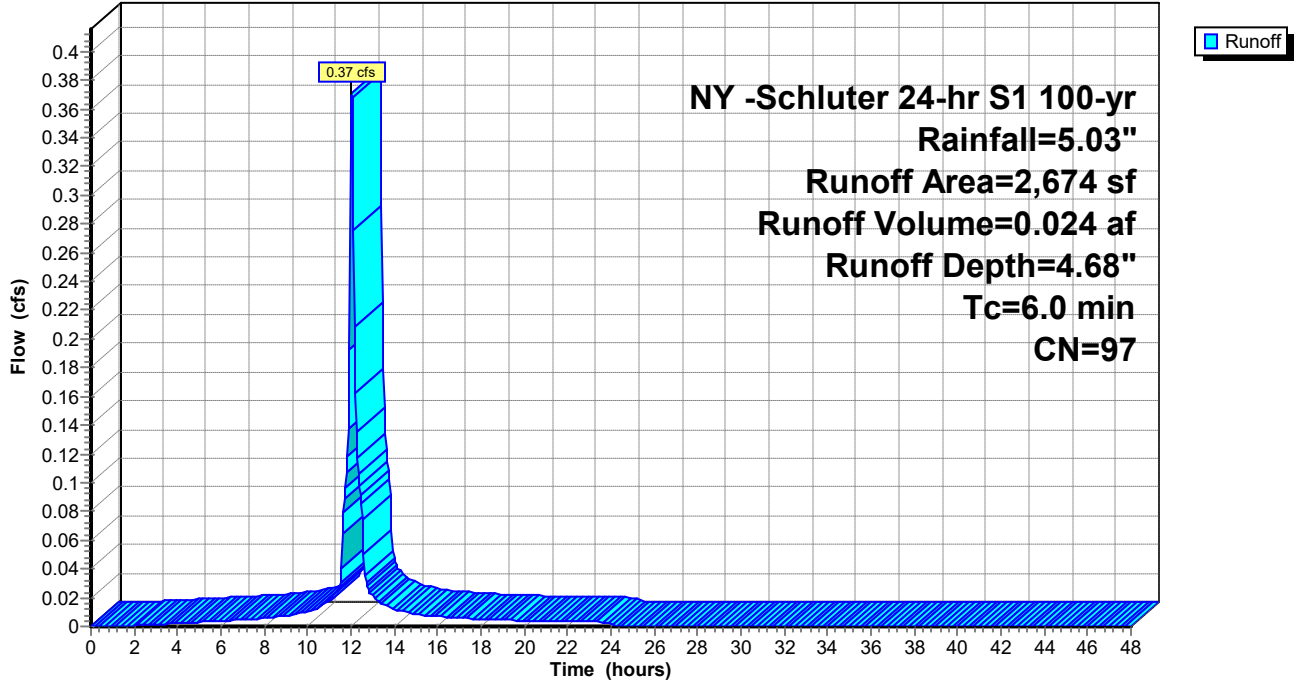
Subcatchment 1S: (new Subcat)

Runoff Area=2,674 sf 93.01% Impervious Runoff Depth=4.68"
Tc=6.0 min CN=97 Runoff=0.37 cfs 0.024 af

Total Runoff Area = 0.061 ac Runoff Volume = 0.024 af Average Runoff Depth = 4.68"
6.99% Pervious = 0.004 ac 93.01% Impervious = 0.057 ac

Subcatchment 1S: (new Subcat)

Hydrograph



Engineering Report

for

On-Site Wastewater Treatment System

Prepared for:
UMS Property LLC

Located at:
194 Pleasant Ridge Road
Plattsburgh, NY 12901

February 01, 2024
Rev 6-13-24
Rev 9-9-24
Rev 10-14-24
Rev 12-12-24

Prepared by:
Robert M. Sutherland P.C.

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SECTION 1 – FACILITY PLANNING AND PERMITTING

1.1 - Introduction

The proposed facility at the UMS Campus will be served by an on-site wastewater treatment system (OWTS). This engineering report will document the design process & assumptions, and calculations used to size the wastewater facility. This report intends to assist the facility owners with the ongoing operation and maintenance of the facility after its construction and to assist the regulatory agencies to help them ensure compliance with the State's water quality standards. The "*NYS Design Standards for Intermediate Sized Wastewater Treatment Systems, 2014*" (Design Standards) were followed to design this proposed expansion.

1.2 – Project Plans

The proposed OWTS is depicted on the project plan entitled "Produced Facility Site Plan," dated September 10, 2024. Please refer to the project plans for additional information regarding the proposed OWTS.

1.3 – State Pollutant Discharge Elimination System (SPDES)

Following the construction of the proposed OWTS, the facility must be certified by a licensed professional engineer before it can be used. The SPDES permit may require construction inspections conducted by a professional engineer. Any problems encountered during the construction process should be brought to the attention of the design engineer.

SECTION 2 – PROJECT EVALUATION

2.1 – Site Evaluation

Initial investigation of the project site and testing began by Robert M. Sutherland, PC (RMS) in the spring of 2023. This testing consisted of sporadic deep holes to confirm the general depth and texture of the existing soil and to identify any limiting features such as rock or high groundwater. The results of this testing indicated that the soil conditions encountered were consistent with National Resource Conservation Services (NRCS) soil mapping for this area. A suitable location to construct a soil absorption system was identified during these initial investigations.

Percolations tests were conducted in the area of the proposed system to confirm the application rate used in the basis of the design. Refer to the project plans for locations and results.

2.2 – Horizontal Separation

The location of the proposed soil absorption system was evaluated to determine if sufficient horizontal separation exists relative to various features of concern. Table 1 below provides the measured and required horizontal separation distances.

| Table 1 – Horizontal Separation Distances to Proposed Absorption System Location | | |
|---|---------------------------------|---------------------------------|
| <i>Feature of Concern</i> | <i>Measured Distance (feet)</i> | <i>Required Distance (feet)</i> |
| Existing Well | None on site | 100 |
| Water Line | 39.77 | 10 |
| Surface Waterbody | None Present | 100 |
| NYSDEC Wetland | 573.46 | 100 |
| Interceptor Drain | None Present | 50 |
| Stormwater Infiltration | 274.97 | 50 |
| Building Foundation | 31 | 20 |
| Property Line | 52.02 | 10 |

2.3 – Soil Evaluation

In 2023 RMS dug a test pit (B-13), near the proposed septic fields, finding 6” of black topsoil atop 18” of red brown sandy loam followed by 48” of tan sandy loam with a percolation rate of 2 minutes. No evidence of high groundwater, mottling, or shallow ledge. Additional deep borings were conducted throughout the site that revealed groundwater table at depths greater than 30 feet, with rock at depths greater than 50 feet. The approximate location of this test pit is provided on the project plans (Sheet C406). Based on the results of these tests, a review of National Resource Conservation Services soil mapping, and other observations made at the site, the soil conditions at the location of the proposed absorption system appear highly uniform, and no significant variability in the soil conditions is expected at this location.

2.4 – Wastewater Characterization

With the facility not utilizing any production water or cooling tower or boiler blow down water, almost all waste water generated from the facility will be waste from the bathroom facilities. The only non-bathroom waste would be the floor washing machines that could add up to 500 gallons a day. The floor wash equipment will discharge to a floor sink that will be equipped with a bag filter to remove any large particulates and allow settlement of and dirt and sands. Therefore, this waste will not introduce any additional pollutants to our septic system. This waste will discharge through two locations around the building, being pumped to a centralized septic tank, and finally to the leach field. Filter backwash from Reverse Osmosis (RO) using the Town’s potable water for the humidification system will outfall to a separate basin onsite which will infiltrate 100% of the Maximum Daily Flow over 24 hours into the ground.

2.5 – Average Daily Design Flow

The average daily hydraulic flow rates of 15 GPD/person is used to size the absorption field based on NYSDEC guidelines. Low-flow fixtures will be used for all new fixtures within the proposed building which will result in a 20% reduction from this value. With an estimated 200 employees in the facility over a 24 hour period, an estimated maximum flow of 2,400 GPD is expected (200x12=2,400). The automatic floor cleaning system will contribute an extra 500 GPD, taking our total maximum flow to 2,900 GPD. Adding in an additional 30% for future growth would yield a total daily flow of 3,770 gallons, or approximately 3,800 gallon per day design value. Due to the size of the facility, a single gravity sewer is not feasible, so the project will have two primary discharges out of the building. Each discharge is sized based on the percentage of fixture units versus the overall fixture count. Each of these discharges will then be pumped to the central leach field.

The Reverse Osmosis backwash was estimated through modeling of the planned facility and calculations for space humidification. The estimations performed by Dubois & King, Inc and utilized for this application can be seen below in Table 1. Given that the Water to Fogging Nozzles will dissipate into the air contributing to humidity, the only waste generated from this activity is from backwashing the system with the same potable water used for the fogging nozzles. This waste generated from backwash is estimated to be twice the demand required by the Fogging Nozzles. Therefore, as seen below the most waste generated per day is in the month of January, averaging 15,173 Gallons per day. In addition, the area of the infiltration basin and small landscaped area draining into the pond was modeled using HydroCAD and accounted for in Volumetric Calculations. A summary of the catchment area can be seen in Table 2 below. For design purposes it was assumed a 100-YR storm event would occur during the month of January. The runoff area analysed consisted of 2,674 Sq-ft with a curve number of 97. The curve number was derived assuming the total infiltration basin area of 2,487 Sq-Ft is full of water prior to the 100-YR runoff event. Given the fogging nozzels discharge the most during the dryest season, it is unlikely to experience a 100-Yr runoff event in tandem with the greatest discharge from the RO system. Furthermore, it was conservatively assumed that infiltration doesn't begin until the pond is full. The infiltration basin bottom area of 541.50 Sq-Ft is proposed to infiltrate 100% of this design volume into the ground at a rate 2 Ft per hour resulting in the full pond draining ~4 hours. A dry well has been proposed to ensure infiltration is not limited by cold weather. Finally, the pond was designed to provide the total design volume at one foot below the infiltration basin top, providing a foot of freeboard.

Table 1

| Water to Fogging Nozzles | Jan | Feb | Mar | Apr | May | June |
|---|-----------|-----------|-----------|-----------|---------|--------|
| Facility Pounds H2O/Month | 1,962,657 | 1,681,429 | 1,615,074 | 1,004,509 | 373,134 | 74,553 |
| Facility Gallons/Month | 235,185 | 201,486 | 193,534 | 120,370 | 44,713 | 8,934 |
| Facility Avg. Gallons/Day | 7,587 | 7,196 | 6,243 | 4,012 | 1,442 | 298 |
| | | | | | | |
| Water Discharge to Waste | Jan | Feb | Mar | Apr | May | June |
| Avg. Estimated Backwash Gallons/Month = | 470,370 | 402,971 | 387,069 | 240,741 | 89,425 | 17,867 |
| Avg. Estimated Backwash Gallons/Day = | 15,173 | 14,392 | 12,486 | 8,025 | 2,885 | 596 |

Table 1 (cont.)

| Water to Fogging Nozzles | July | Aug | Sept | Oct | Nov | Dec | Annual |
|---|-------|--------|---------|---------|---|-----------|-----------|
| Facility Pounds H2O/Month | 8,062 | 51,807 | 148,789 | 515,612 | 772,241 | 1,565,600 | 9,773,469 |
| Facility Gallons/Month | 966 | 6,208 | 17,829 | 61,786 | 92,538 | 187,606 | 1,171,155 |
| Facility Avg. Gallons/Day | 31 | 200 | 594 | 1,993 | 3,085 | 6,052 | 3,209 |
| | | | | | | | |
| Water Discharge to Waste | July | Aug | Sept | Oct | Nov | Dec | Annual |
| Avg. Estimated Backwash Gallons/Month = | 1,932 | 12,416 | 35,659 | 123,572 | 185,075 | 375,212 | 2,342,310 |
| Avg. Estimated Backwash Gallons/Day = | 62 | 401 | 1,189 | 3,986 | 6,169 | 12,104 | 6,417 |
| | | | | | Total Water to Humidification System Gallons/Year | | 3,513,464 |

Table 2

| Basin Area: 2,674 Sq-ft | | | |
|-----------------------------------|-------------------------------|--------------------------|--------------------|
| Composite Curve Number: 97 | | | |
| | | | |
| RainFall Event | Depth of Rainfall (in) | Peak Runoff (cfs) | Volume (cf) |
| 1-yr | 1.87 | 0.15 | 348.48 |
| 2-yr | 2.14 | 0.16 | 392.04 |
| 5-yr | 2.61 | 0.19 | 522.72 |
| 10-yr | 3.04 | 0.22 | 609.84 |
| 25-yr | 3.71 | 0.27 | 740.52 |
| 50-yr | 4.32 | 0.32 | 871.20 |
| 100-yr | 5.03 | 0.37 | 1045.44 |

SECTION 3 – PRIMARY & SECONDARY TREATMENT

3.1 – Septic Tanks

At each of the sanitary outlets from the building, septic tanks will provide primary treatment as seen on the utility plans. Due to the majority of the sanitary flow occurring during the primary 8-hour shift, the septic tanks have been upsized based on a 24-hour equivalent of said flow. A flow duration of 10-hour equivalents was used based on the employee distribution over the three shifts with the majority occurring during the primary 8-hour day shift. Due to the minimum capacity required, each system will utilize two tanks in series. The proposed septic tanks will be equipped with effluent filters and ventilation pipes. Due to the installation of an outlet filter, high water alarms will be installed within the septic tanks to alert the operator of any blockages.

After filtration through the septic tanks, wastewater will flow to auxiliary holding tanks. The purpose of these tanks is to provide additional storage volume in the event of pump failure. The site is equipped with generator back-up power so power outages would not have a negative effect on the system operations.

The wastewater will eventually flow into a pump chamber, where it will then be sent to centrally located absorption fields.

SECTION 4 – ABSORPTION BED SYSTEM

Absorption trenches are proposed to provide the final treatment and disposal of the septic tank effluent.

4.1 – Soil Application Rate

Based on the Design Standards, for soils with a percolation rate between 1-5 minutes, the recommended soil application rate is 1.20 gpd/ft².

4.2 – Pressure Distribution Absorption Field Sizing

At the total design flow rate of 3,800 gpd, a minimum of 1,600 LF of absorption trench is required. Two fields are proposed, each with dimensions of eight (8), 2' wide by 100' long trenches, giving a total absorption area of 3,200 ft².

4.3 – Distribution Piping

The proposed trenches will be dosed utilizing equalized timed doses via the proposed pump chamber. Pressurized effluent from the pump will be alternated between two separate distribution boxes, providing even distribution throughout the field. It will be divided into eight 6" dia. lateral lines, each with a length of 100'.

4.4 – Pump Dosing System

The ideal dose volume required is between 75% and 85% of the volume of the distribution piping:

Trenches Volume = (75% to 85%)*(8)*(100)*(0.2) = 120 to 136 cf or 897 to 1,017 gallons
Force Main = (14.5)*(0.022) = .32 cf or 2 gallons

Ideal Dose Volume = 899 to 1019 gallons

With the absorption field broken down into two separate absorption areas, and alternating fields every 6 hours, each side will receive 50% of the total volume, or 1900 gallons per day. With a dosing rate of 950 gallons per field, each field will receive an average of 2 doses per day.

SECTION 5 – OPERATIONS AND MAINTENANCE

The septic tanks must be opened and visually inspected at least once per year; however, more frequent inspections are recommended. Accumulated sludge and scum must be removed before the depth of either exceeds one-fourth of the liquid depth of the tanks so that settleable solids cannot escape. Removed sludge must be disposed of at a permitted facility capable of handling septage. A recommended schedule for performing maintenance on the system is provided below:

Spring:

- Open and visually inspect the septic tank, and use a "sludge judge" to measure the depth of the sludge and scum levels. Inspect around the tank for signs of leakage or excessive corrosion.
- Open and visually inspect the pump station. Ensure that both pumps and alarms are in working order.

Summer:

- Periodically mow absorption fields so that grass does not exceed 6" in length. Take note of any wet spots or other abnormalities.

Fall:

- Open and inspect the septic tank, and use a "sludge judge" to measure the depth of the sludge and scum levels. Visually inspect the tank for signs of leakage or excessive corrosion.
- Open and visually inspect the pump station. Ensure that both pumps and alarms are in working order.

Winter:

- Don't stockpile snow on top of absorption fields

Helpful tools that will assist operation and maintenance of the facility:

- Clear plastic sludge sampler such as the “sludge judge”.
- Steel manhole hook to allow easy access to tanks and manholes for inspection.
- Do not enter septic tank or pump stations without proper authorization and permits.

It is recommended that a log book be kept to record maintenance activities, tank pump outs, and any observations or problems encountered with the system.