

October 30, 2025

**VIA ELECTRONIC FILING**

Electronically Filed in TPUC Docket  
Room on October 30, 2025 at 3:30 p.m.

Shilina B. Brown  
Senior Assistant Attorney General  
Office of the Tennessee Attorney General  
Consumer Advocate Division  
P.O. Box 20207  
Nashville, TN 37202-0207  
[Shilina.Brown@ag.tn.gov](mailto:Shilina.Brown@ag.tn.gov)

**RE: *Application of Limestone Water Utility Operating Company, LLC, to Expand its Certificate of Convenience and Necessity to Serve the Ross Way Subdivision, TPUC Docket No. 25-00050***

Dear Ms. Brown:

We are in receipt of your inquiry and requests regarding the minimum filing requirements in the above-referenced docket. Please find the responses from Limestone Water Utility Operating Company, LLC (“Limestone”) below.

**Rule 1220-04-13-.17(2)(a) General Information**

1. *Rule 1220-04-13-.17(2)(a)2.* The rule requires an organizational chart showing each officer and key personnel by name and title. **The Company filed Exhibit 5. This is an organizational chart but there are only titles and no names are listed for each position as required by the rule. Please file a complete organizational chart replacing Exhibit 5 with a complete chart of employee names with each title.**

**Response:** Please see **Attachment “DR 1 – Limestone Org Chart”** for an updated organizational chart showing each officer and key personnel by name and title. Exhibit 8 to the Application provides officers and key personnel.

2. *Rule 1220-04-13-.17(2)(a)3.* The rule requires a list of owners, members and officers of utility. Provide address, telephone number, and percentage of ownership of each individual. If different, list the names of owners, members and officers located in TN. **The Petition states that Josiah Cox is the sole officer. Provide a breakdown of the rule**

*Neuhoff Building  
1320 Adams Street, Suite 1400  
Nashville, TN 37208*

MELVIN J. MALONE  
615.651.6705  
C 615.948.7801  
[melvin.malone@butlersnow.com](mailto:melvin.malone@butlersnow.com)

*T 615.651.6700  
F 615.651.6701  
[www.butlersnow.com](http://www.butlersnow.com)*

requirement for each Tennessee entity – Tennessee CSWR, LLC, Limestone Water UHC, LLC and Limestone Water UOC, LLC – and file in the Docket.

**Response:** Josiah Cox is the sole officer of each of the Tennessee Companies. His address and phone number are: Limestone Water Utility Operating Company, LLC c/o Josiah Cox 1630 Des Peres Rd., Suite 140 St. Louis, MO 63131 (314) 380-8544.

3. *Rule 1220-04-13-.17(2)(a)7.* The rule requires a complete description of the geographic territory to be served by the applicant, including the name and location of development (subdivision) and the number of acres. Include the name of the subdivision or development and the name of the wastewater system as stated in the TDEC permit. In addition, provide a legible map of the area with the proposed service territory clearly and accurately plotted. There is an inconsistency regarding the Ross Way development. The Petition (p. 4) states it is “approximately 6.71-acre subdivision in Sevier County, Tennessee. This is a residential apartment complex.” The SOP Application (Exhibit 1) states that the development is a subdivision consisting of 5 homes with an average of 17 bedrooms per home. In the Direct Testimony of Todd Thomas (Exhibit 9), his description follows that of the SOP Application of consisting of “5 homes with a total of 85 bedrooms for 57 equivalent units on approximately 6.71 acres.” The permit issued by TDEC states that “Ross Way subdivision consists of 5 dwelling units with 17 bedrooms each.” Please confirm that the development is that of 5 buildings of an apartment complex. If not apartments, please describe the development. A copy of the final permit is attached as “CA MFR Review Exhibit 1 – Final SOP.”

**Response:** Limestone has confirmed that the Ross Way Subdivision development will consist of 5 homes with a combined total of 85 bedrooms.

4. *Rule 1220-04-13-.17(2)(a)7(iii).* The rule asks for a map to show access roads and names of access roads (if available) and the other utilities necessary to provide wastewater service. Exhibit 1 is a map, but it does not include all surrounding road names and properties. File an exhibit that meets this requirement in the docket.

**Response:** Please see Attachment “DR 2 – Ross Way Subdivision Map.”

5. *Rule 1220-04-13-.17(2)(a)7(iv).* The rule asks for a map of all residences and habitable structures served by the wastewater system. Exhibit 1 is a map, but it does not include a map of the residences and habitable structures. File a map that shows the details of this requirement in the docket.

**Response:** Please see Attachment “DR 2 – Ross Way Subdivision Map.”

6. *Rule 1220-04-13-.17(2)(a)11.* The rule states to identify the builder or developer that has requested the utility to provide wastewater service. Include name of company, name of primary contact, title, mailing address, email address, and phone number. **Mr. Harris’ position in the FYIYSM is not provided. Please clarify Mr. Harris’ position and title with the developer.**

**Response:** Limestone has confirmed that the development company is FYIYSM, LLC. The primary contact for this development is Jeff Harris. Mr. Harris is the Developer of this subdivision for FYIYSM, LLC.

Rule 1220-04-13-.17(2)(c) Managerial Ability

1. *Rule 1220-04-13-.17(2)(c)3.* The rule asks for copies of all contracts related to any pending merger or acquisition of the applicant, corporate parent or affiliate. **Has Limestone obtained a waiver from the Commission for the requirements of this rule?**

**Response:** In the Application, Limestone maintained that it has complied with this rule. In the alternative, Limestone requested a waiver.

Rule 1220-04-13-.17(2)(d) Technical Capability

1. *Rule 1220-04-13-.17(2)(d)1.* The rule asks for a copy of the application for the State Operating Permit (SOP) filed with TDEC. Include a letter from TDEC indicating the receipt of a complete application. Include any engineering and/or design reports submitted to TDEC, such as the Design Development Report and the Detailed Soils Investigation Report. If an operating permit has been issued, provide a copy of the permit. The utility shall file a copy of the TDEC permit in the docket file prior to providing service. **After a review of Petition, the Consumer Advocate could not locate copy of the engineer reports and/or design reports. A final permit has been issued and is attached as “CA MFR Review Exhibit 1 – Final SOP.”**

**Response:** Please see Attachment “DR 3 – Ross Way Site Plans.”

2. *Rule 1220-04-13-.17(2)(d)2.* The rule asks for a copy of the State Operator Certificate for the wastewater system operator of record. If the operator is a contract employee of the utility, provide a copy of the employment contract. **A copy of the license for Dana Douglas**

was attached as Exhibit 18. However, after review of the Petition, the Consumer Advocate cannot locate a copy of a contract for Dana Douglas. In review of documents available in the TDEC Dataviewer, the Consumer Advocate found an email from Limestone dated January 15, 2025, which states that Dana Douglas is no longer with the Company. A copy of this email is attached as “CA MFR Review Exhibit 2 – Dana Douglas.” Please confirm that Dana Douglas is the certified operator, and who employs him. If Mr. Douglas is an employee of a third party, please share a copy of the contract.

**Response:** Limestone has determined that Dana Douglas will not be the certified operator of this system. Please see **Attachment “DR 4 – State Operator Certificate”** for a copy of the certified operator, employed by West Creek.

3. *Rule 1220-04-13-.17(2)(d)4.* The rule asks for a list of any complaint(s), notices of violation or administrative action filed with or issued by a regulatory agency. Identify the nature of the complaint notices of violation or administrative action, which agency is involved, and how the issue was or is being resolved. **The Company provided no information in response to this requirement. Therefore, the Consumer Advocate reviewed TDEC’s public dataviewers for information and found the following (A copy of all the documents or screen shots are attached collectively as “CA MFR Review Exhibit 3 – Complaints & Enforcement”:**

- Candlewood Lakes Drinking Water System.
  - 2025.02.05 – Settlement Agreement (still active).
- Shiloh Falls Wastewater System (
  - 2025.03.27 – Compliance Evaluation Inspection & Notice of Violation – saturation and runoff.
  - 2025.04.15 – Limestone Response to NOV
- Grassland Wastewater System (Cartwright Creek).
  - 2023.02.13 - WPC22-0086 – TDEC Consent Order (still active)
  - 2025.07.25 – Notice of Violation – Release of Sewage.
  - Note: Multiple Citizen Complaints – screen shots of complaints filed with TDEC provided in collective exhibit
  - 2025.08.01 – Limestone Response to NOV
- Hideaway Wastewater System (Cartwright Creek).
  - 2024.11.07 – Notice of BOD Exceedance.
- Laurel Creek.
  - 2025.07.02 – Final Inspection Letter – Plans not followed. Need corrected as-built plan filed.

**Response:** Please see **Attachment “Limestone NOVs.”**

Candlewood Lakes - Limestone has included the Settlement Order in the provided attachment. Limestone is working on setting up a meeting with TDEC to discuss the well drillers not being named.

Shiloh Falls – Limestone had a meeting regarding the CAP on 8/21/2025. Limestone submitted final plans to satisfy the CAP on 9/12/2025.

Grasslands – This system has reached the end of its useful life, and Limestone is working to complete a total replacement of the system.

Hideaway – Please see the currently active agreement extension to address past exceedances in the provided attachment. Limestone’s third-party engineering firm is planning to submit their engineering report by 10/31/2025.

Laurel Creek – Corrected as-built plans filed 7/3/2025 and Limestone closed on this system 7/10/2025.

#### Rule 1220-04-13-.17(2)(e) Financial Capability

1. *Rule 1220-04-13-.17(2)(e)7.* The rule asks that the Petitioner indicate the identity of the owner(s) of the wastewater system once construction is complete. If a party other than the utility pays the cost of construction and transfers ownership of the wastewater system to the applicant, provide a detailed breakdown of the estimated amount of contributed capital that will be recorded on the applicant's financial books. **The Company states that it will be owner of the system once construction is complete. However, the Consumer Advocate could not locate a “detailed breakdown of the estimated amount of contributed capital that will be recorded on the applicant’s financial books.” Provide the required information or if you have provided it through an exhibit in your current filing, specify the exhibit.**

**Response:** Please see Exhibit 14 of Limestone’s Application.

2. *Rule 1220-04-13-.17(2)(e)9.* The rule requires the Company to provide estimates of costs and customers added by month for the first five (5) years based upon the construction build-out schedule for developers in the service area of the proposed wastewater system. For each year, by month, provide an estimated number of customers by customer class anticipated to be served by the wastewater system. Include the utility's basis and assumptions used for this projection. Provide this information in a spreadsheet in Microsoft Excel format with all assumptions clearly documented. **In its response identified as #9, the Company’s response was “not applicable.” However, if the real response is the one identified in #10, which states that all customers will be connected**

shortly after construction, please explain how all customers will be hooked up in Year 1. Please confirm which is the correct response. Is it #9 or #10 for this particular rule.

**Response:** The correct response to this rule is what was provided in #9. This development is going to be completed in one phase, therefore there will not be additional customers added following completion of that phase. Please see Exhibit 12 to the Application for the estimate of costs and customers that will be on the system at the completion of that phase.

3. *Rule 1220-04-13-.17(2)(e)10.* The rule asks for documentation describing bonding requirements imposed by municipal governments for the proposed wastewater system. In its response identified as #10, the Company states that since the development is in one phase, this requirement is not applicable. Please explain how this requirement is not applicable since the development is in one phase. If the real answer is actually the Company's response identified as item #11, which is "not applicable" please confirm that the local government does not require a bond for the proposed wastewater system. Please confirm which is the correct response #10 or #11 for this particular rule.

**Response:** Limestone has requested this information from the developer. Once that information has been provided, the Company will supplement this response.

4. *Rule 1220-04-13-.17(2)(e)11.* This rule requires a performance bond from the developer or builder of the wastewater system made to ensure construction of the wastewater system. The performance bond should be for an amount equal to or greater than the cost of the system as provided in contracts between builder, developer and/or utility. In its response identified as #11, the Company states the rule is "not applicable." Please explain how this requirement is not applicable. Or is the answer actually in #12, the developer will provide a bond when available. Do you have an estimate of when such a bond will be required? Please provide that date. Please confirm which is the correct response #11 or #12 for this particular rule.

**Response:** Limestone has requested this information from the developer. Once that information has been provided, the Company will supplement this response.

5. *Rule 1220-04-13-.17(2)(e)12.* The rule asks for a list of all funding sources available for the proposed wastewater system. In the Company's response identified as #12 it states that the developer would fund all necessary construction and would provide assurance in the form of a bond. Do you have an estimate of when such a bond will be required. Please provide that date. However, the Company's response identified as #13 might be the actual answer since it states that the proposed system will be constructed by the developer, and

that Limestone has access to funding from CSWR, if needed. If this is the actual answer, how will CSWR ensure that the ratepayers are not burdened by having to complete the wastewater system due to the developer's failure to do so? Please confirm which is the correct response #12 or #13 for this particular rule.

**Response:** The correct response to this rule is the response provided to #12. Limestone has requested this information from the developer. Once that information has been provided, the Company will supplement this response.

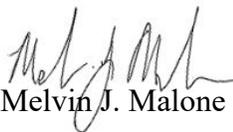
6. *Rule 1220-04-13-.17(2)(e)13.* The rule asks for information demonstrating compliance with the financial security requirement of Rule 1220-04-13-.07. Although this is subsection (12) of the rule, it is identified as response #14. It appears that the numbering in Appendix A of the Company's petition may be misnumbered. Is it correct that the response is actually #14 and Exhibit 15?

**Response:** Limestone has determined that Exhibit 15, provided in the Application, is the correct exhibit to satisfy this rule.

Should you have any questions, please do not hesitate to contact me.

Very truly yours,

BUTLER SNOW LLP

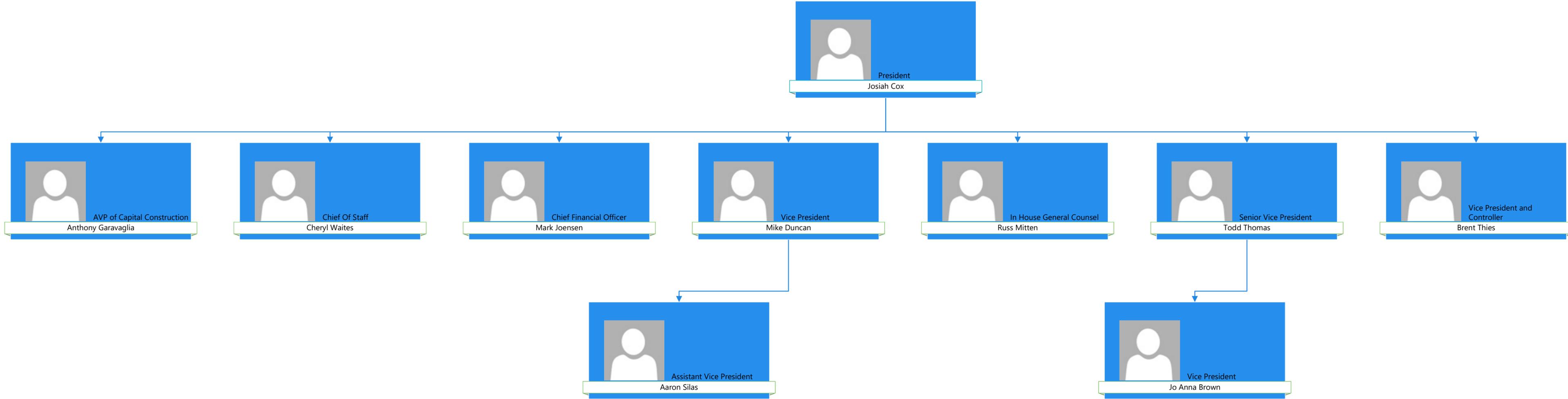


Melvin J. Malone

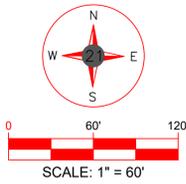
Attachments

cc: TPUC Docket Manager  
Timothy Atwood, Central States Water Resources  
Vance Broemel, Consumer Advocate Division  
Karen H. Stachowski, Consumer Advocate Division

# **DR 1 – LIMESTONE ORG CHART**

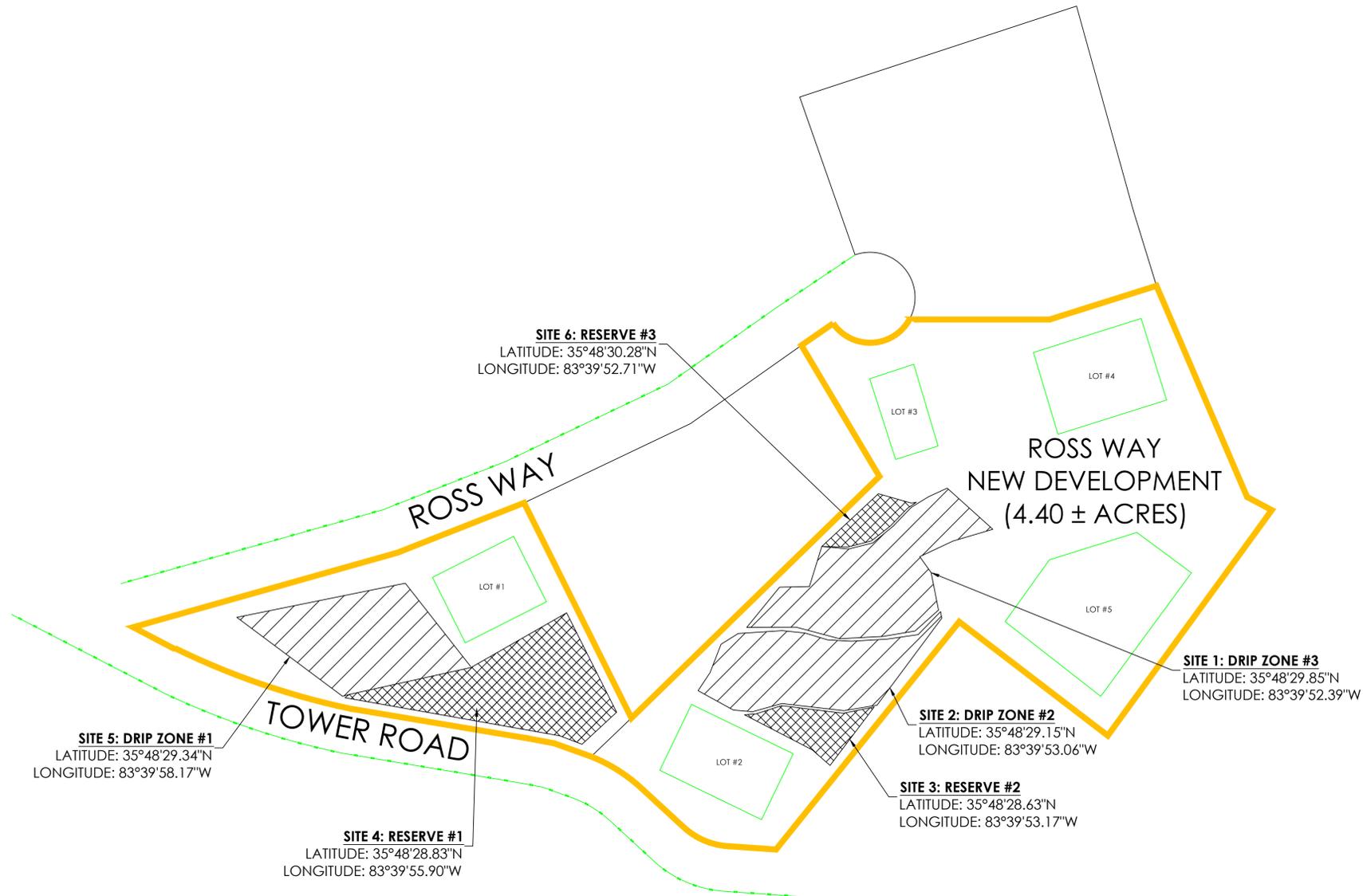


# **DR 2 – ROSS WAY SUBDIVISION MAP**



\*ALL PLATS HAVE BEEN ACCOUNTED FOR

# PROPOSED SERVICE AREA MAP ROSS WAY (WASTEWATER) SEVIER COUNTY, TN



### MAP LEGEND

BUILDING	
RIGHT OF WAY	
UTILITY SERVITUDE PER RECORD PLAT	
LOT LINE	
SUBDIVISION OUTLINE	
UTILITY AREA SERVICED	

#### MAP DISCLAIMER:

This document is a graphic representation of the approximate service area for a utility system. It is solely to provide a visual of the area of the system. This drawing does not constitute a property boundary survey and shall not be used to convey property.

#### Utility Note Disclaimer:

The service area shown hereon are depicted based on the service area map provided by the system manager and the Certificate of Convenience and Necessity (CCN). 21 Design Group, Inc performed no field verification of the layout and are unable to determine the exact location at this time. The location represents approximate location only and should not be construed as being 100% accurate. It is shown to provide general service area of the system to assist with ordering title work and preparation of scope for a License Land Surveyor. This sketch should not be used to interpret encroachments.

DATE:	08/08/2025
PROJECT NO:	0512-25
DRAWN BY:	A.M.D.
SCALE:	1"=60'
SHEET NAME:	SERVICE AREA MAP



1351 Jefferson, Suite 301  
Washington, MD 63090  
mail@21designgroup.net  
P: 636-432-5029

# **DR 3 – ROSS WAY SITE PLANS**

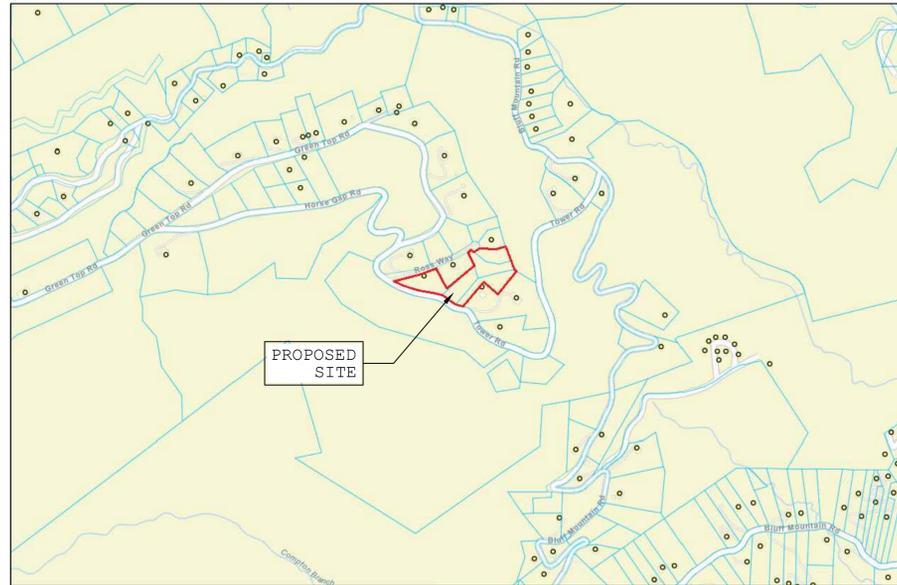
# ROSS WAY

## WASTEWATER TREATMENT SYSTEM DESIGN

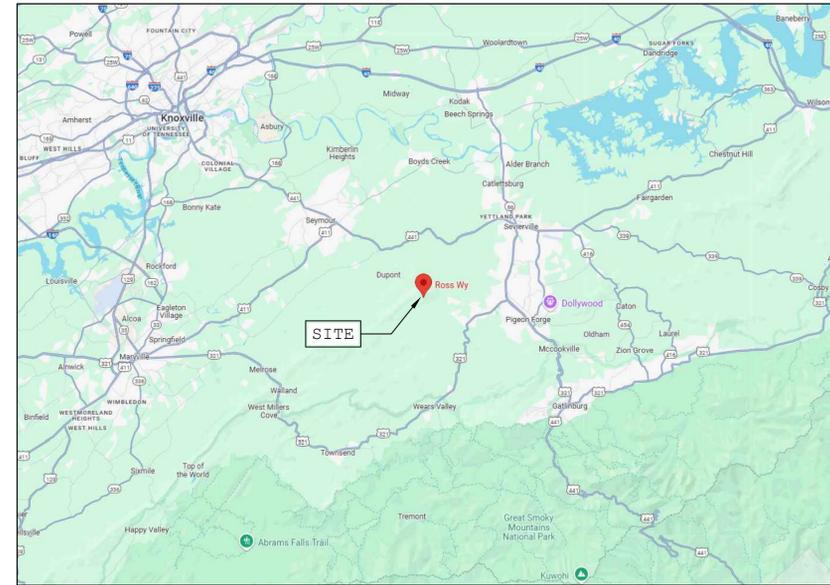
### FOR JEFF HARRIS

### PROJECT LOCATION

### TOWER ROAD, SEVIER COUNTY, TN



**PARCEL MAP**  
NOT TO SCALE



**VICINITY MAP**  
NOT TO SCALE

ROSS WAY SHEETS	
Sheet Number	Sheet Title
CV	COVER SHEET
1.0	EXISTING CONDITIONS
1.1	SOIL SCIENTIST MAP
1.2	OVERALL SITE PLAN
2.0	PROCESS FLOW DIAGRAM
3.0	SCHEMATIC LAYOUT
3.1	AX100 POD DETAILS
3.2	AX100 BERM
3.3	AX100 AIR INLET
3.4	UV FILTER FLOWMETER
3.5	MAIN TREATMENT TANK DETAILS
3.6	RECIRCULATION BLEND TANK
4.0	TREATMENT PLANT SITE PLAN
5.0	ELECTRICAL ONE LINE DIAGRAM
6.0	DRIPFIELD LAYOUT
6.1	DRIP FIELD SCHEMATIC LAYOUT
6.2	DRIP FIELD DETAILS
6.3	DRIP FIELD DETAILS
7.0	COLLECTION SYSTEM
7.1	COLLECTION SYSTEM DETAILS
7.2	HOME STEP TANK DETAILS
8.0	PLANT ROOM DETAILS

**OWNER/ CONTACT**

**JEFF HARRIS**

----

**ENGINEER**

**CODY MCELROY PE**

**DSH & ASSOCIATES, 10519  
LEXINGTON DR, KNOXVILLE, TN**



SHEET SET GROUP:  
**WWTP**

ENGINEER  
**CODY MCELROY PE**

**DSH & ASSOCIATES,  
10519 LEXINGTON  
DR, KNOXVILLE,  
TN**

CLIENT  
**JEFF HARRIS**

----

PROJECT  
**ROSS WAY**

**Tower Road,  
Sevier County, TN**

DATE CREATED  
**12/13/24**

DATE PRINTED  
**12/17/24**

DATE REVISION  
----

SCALE

DESIGNED BY  
**DH**

DRAWN BY  
**CD**

CHECKED BY  
**CM**

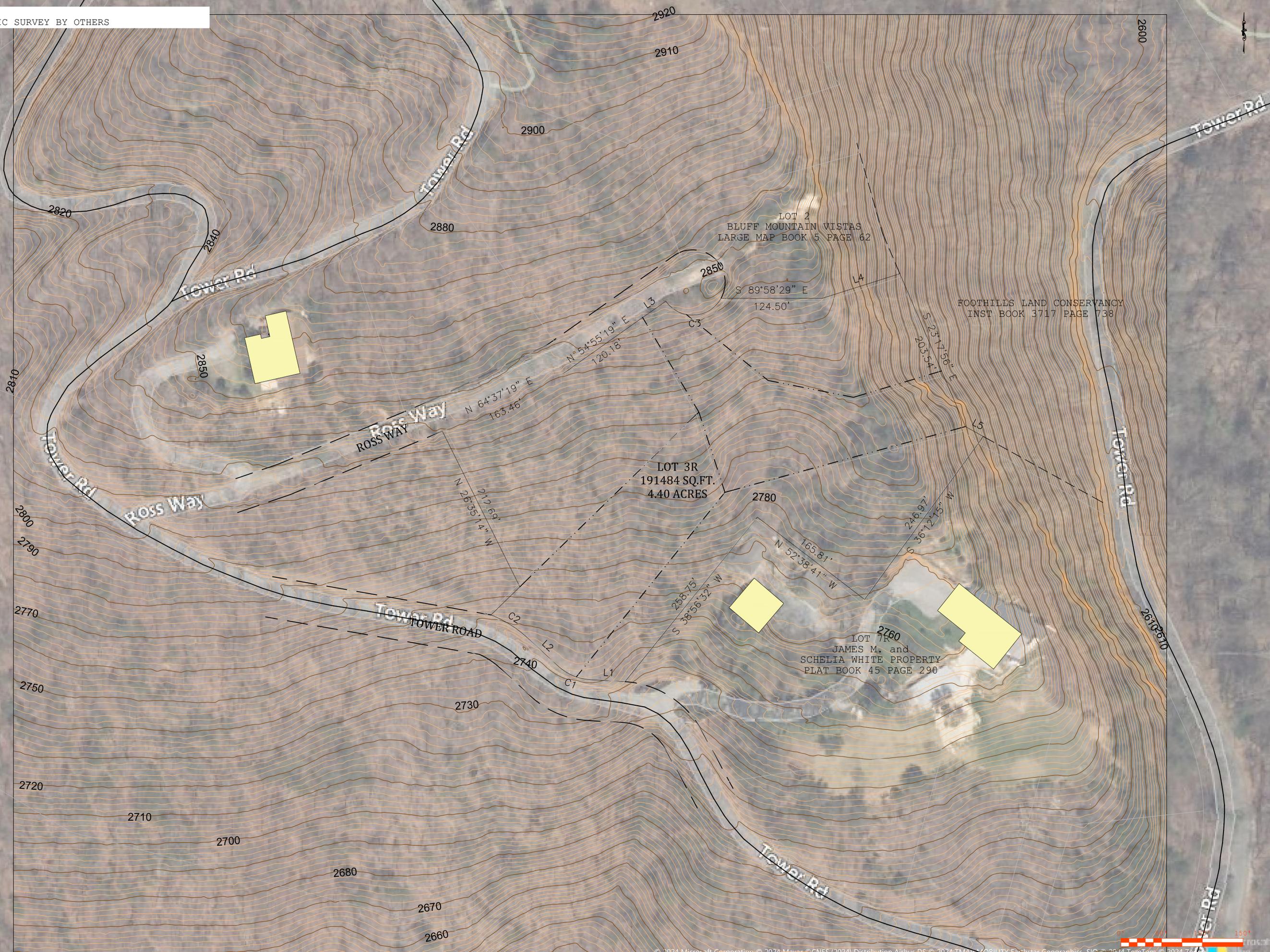
PROJECT NUMBER  
**247**

SHEET TITLE  
**COVER SHEET**

SHEET NUM. REV.  
**CV** ----

NOTE  
TOPOGRAPHIC SURVEY BY OTHERS

NOTES



SHEET SET GROUP:  
WWTP

ENGINEER  
CODY MCELROY PE

DSH &  
ASSOCIATES,  
10519 LEXINGTON  
DR, KNOXVILLE,  
TN

CLIENT  
JEFF HARRIS

PROJECT  
ROSS WAY

Tower Road,  
Sevier County, TN

DATE CREATED  
12/13/24

DATE PRINTED  
12/17/24

DATE REVISION  
----

SCALE  
1" = 50'

DESIGNED BY  
DH

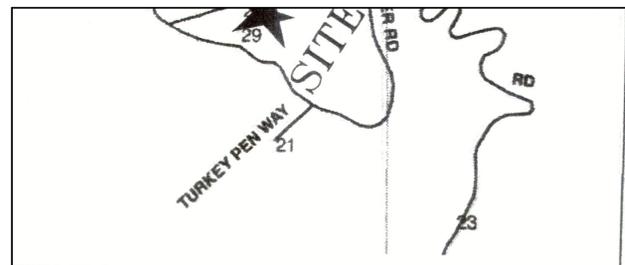
DRAWN BY  
CD

CHECKED BY  
CM

PROJECT NUMBER  
247

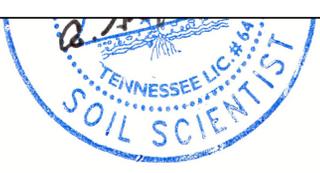
SHEET TITLE  
EXISTING  
CONDITIONS

SHEET NUM.	REV.
1.0	----

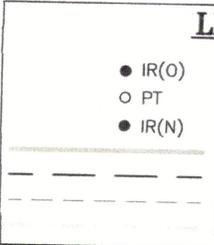


Map TOTAL ACRES = 4.40

Sevier County, Tennessee  
 Extra High Intensity Soils Map  
 Soil Map Completed by: A. Grant Dunn 08-19-24  
 Signature Date



DSH & ASSOCIATES  
 NOTES



**ZONING**  
 R-1 SEVIER CO  
**BUILDING SET**  
 FRONT = 20'  
 SIDE = 10'  
 REAR = 10'  
 7.5' UTILITY AND  
 15' UTILITY AND  
 EXTERIOR LOT

**CERTIFICATION OF STREET NAMES**

STREET NAMES HAVE BEEN APPROVED BY THE SEVIER COUNTY COMMUNICATIONS DISTRICT, ARE IN COMPLIANCE WITH E-911 SPECIFICATIONS AND DO NOT CONFLICT WITH OTHER STREET NAMES IN THE COUNTY.

E-911 COORDINATOR \_\_\_\_\_

**STATE OF OWNERSHIP AND DEDICATION**

I AM (WE ARE) THE OWNER(S) OF THE PROPERTY SHOWN AND I (WE) HEREBY ADOPT THE PLAN OF SUBDIVISION WITH CONSENT, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES, AND ALLEYS, WALKS, PARKS, AND OTHER OPEN SPACE TO PUBLIC USE NOTED.

PRINT OWNER 1 \_\_\_\_\_  
 SIGNATURE OWNER 1 \_\_\_\_\_  
 PRINT OWNER 2 \_\_\_\_\_  
 SIGNATURE OWNER 2 \_\_\_\_\_

**COUNTY HEALTH DEPARTMENT**

GRANTED FOR LOTS \_\_\_\_\_

TENNESSEE, AS BEING SUITABLE FOR SUBSURFACE SEWAGE DISPOSAL AND ATTACHED RESTRICTIONS. PRIOR TO ANY CONSTRUCTION OF A PERMANENT, THE PLANS FOR THE EXACT HOUSE/STRUCTURE APPROVED AND A SSD SYSTEM PERMIT ISSUED BY THE DIVISION OF HEALTH, WATER TAPS, WATER LINES, UNDERGROUND UTILITIES AND BE LOCATED AT THE SIDE PROPERTY LINES UNLESS OTHERWISE NOTED. FILLING OR ALTERATIONS OF THE SOIL CONDITIONS MAY VOID THIS PERMIT.

COUNTY HEALTH DEPARTMENT DATE \_\_\_\_\_

**DEPARTMENT NOTES AND RESTRICTIONS**

DESIGN WILL DETERMINE THE ACTUAL NUMBER OF BEDROOMS FOR WHICH THIS PERMIT IS ISSUED.

STANDARD INDIVIDUAL SUBSURFACE SEWAGE.

PROVIDING A MAXIMUM OF \_\_\_\_\_ BEDROOMS

STANDARD INDIVIDUAL SUBSURFACE SEWAGE.

Arthur Grant Dunn Soil Consultation; with Kyle Green

I, Arthur Grant Dunn, affirm that this soil map has been prepared in accordance with accepted standards of soil science practice and the standards and methodologies established in the NRSC Soil Survey Manual and USDA Soil Taxonomy. No other warranties are made or implied.

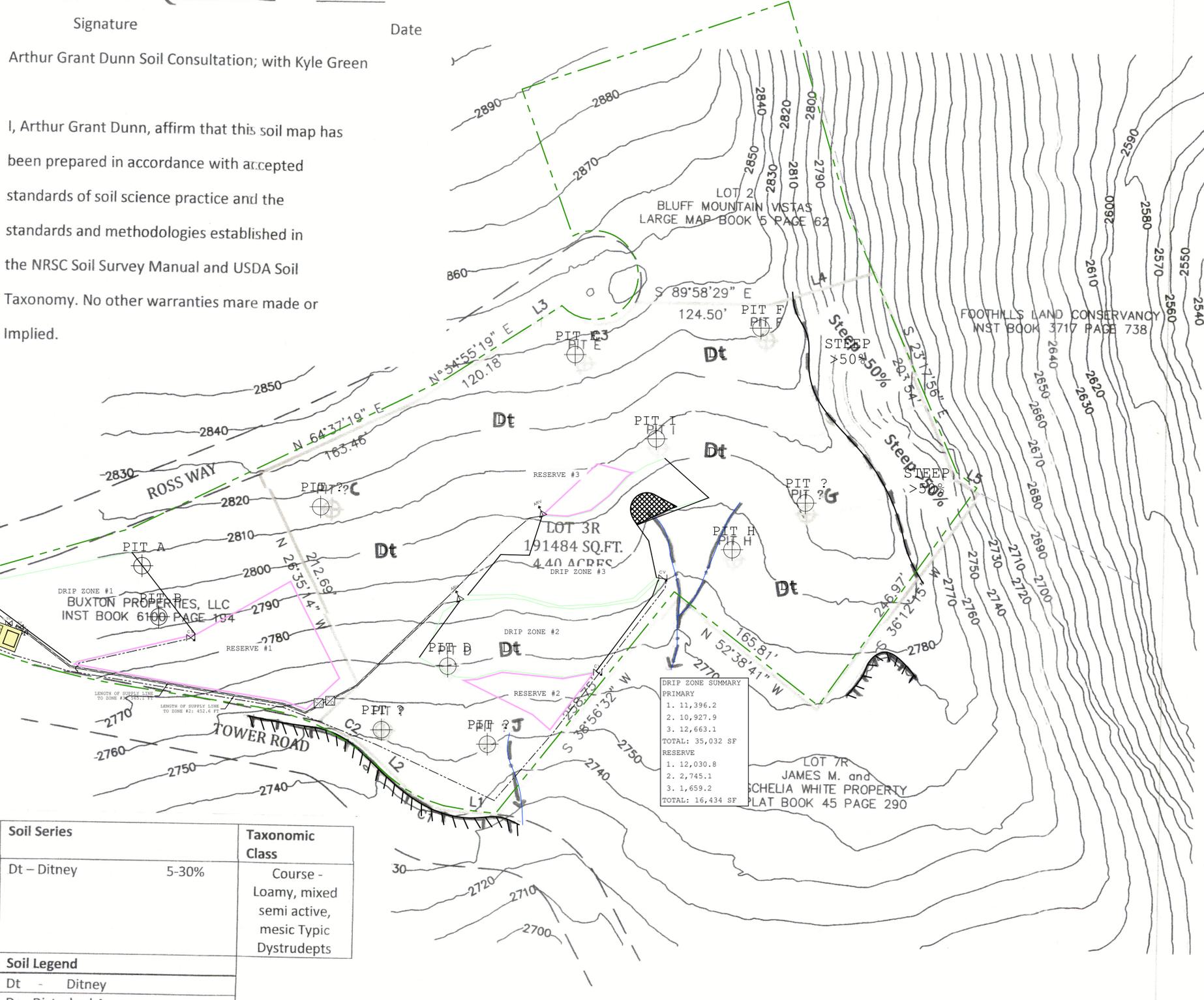
Soil Series		Taxonomic Class
Dt - Ditney	5-30%	Course - Loamy, mixed semi active, mesic Typic Dystrudepts

Soil Legend	
Dt - Ditney	
Ds - Disturbed Area	
Drainage Way	
Perennial	25'
Intermittent	15'
NM - Not Mapped	
Cut Bank	25'

Notes:  
 Any Cutting, Filling, Or Compacting



**DRIP ZONE SUMMARY**

PRIMARY
1. 11,396.2
2. 10,927.9
3. 12,663.1
TOTAL: 35,032 SF
RESERVE
1. 12,030.8
2. 2,745.1
3. 1,659.2
TOTAL: 16,434 SF

**NOTES:**

- SETBACKS TO MEET CURRENT ZONING REGULATIONS.
- PROPERTY IS SUBJECT TO ANY AND ALL APPLICABLE EASEMENTS, ENCUMBRANCES, NOTATIONS, SETBACKS, RESTRICTIONS, COVENANTS, RIGHTS OF WAYS, ZONING ORDINANCES, SUBDIVISION REGULATION AND LEASE AGREEMENTS AS RECORDED IN THE COUNTY REGISTER OF DEEDS.
- SURVEYOR MAKES NO REPRESENTATION AS TO THE STATUS OF TITLE. NO TITLE SEARCH WAS PERFORMED.
- THE PREPARER OF THIS PLAT MAKES NO REPRESENTATION AS TO THE



SHEET SET GROUP:	WWTP
ENGINEER	CODY MCELROY PE
DSH & ASSOCIATES,	10519 LEXINGTON DR, KNOXVILLE, TN
CLIENT	JEFF HARRIS
PROJECT	ROSS WAY
Tower Road,	Sevier County, TN
DATE CREATED	12/13/24
DATE PRINTED	12/17/24
DATE REVISION	---
SCALE	1" = 50'
DESIGNED BY	DH
DRAWN BY	CD
CHECKED BY	CM
PROJECT NUMBER	247
SHEET TITLE	SOIL SCIENTIST MAP
SHEET NUM.	1.1
REV.	---

NOTE  
 SITE PLAN BY OTHERS EXCEPT FOR WASTEWATER  
 COLLECTION SYSTEM, TREATMENT AND DISPOSAL

NOTES



SHEET SET GROUP:  
 WWTP

ENGINEER  
 CODY MCELROY PE

DSH &  
 ASSOCIATES,  
 10519 LEXINGTON  
 DR, KNOXVILLE,  
 TN

CLIENT  
 JEFF HARRIS

PROJECT  
 ROSS WAY

Tower Road,  
 Sevier County, TN

DATE CREATED  
 12/13/24

DATE PRINTED  
 12/17/24

DATE REVISION  
 ---

SCALE  
 1" = 50'

DESIGNED BY  
 DH

DRAWN BY  
 CD

CHECKED BY  
 CM

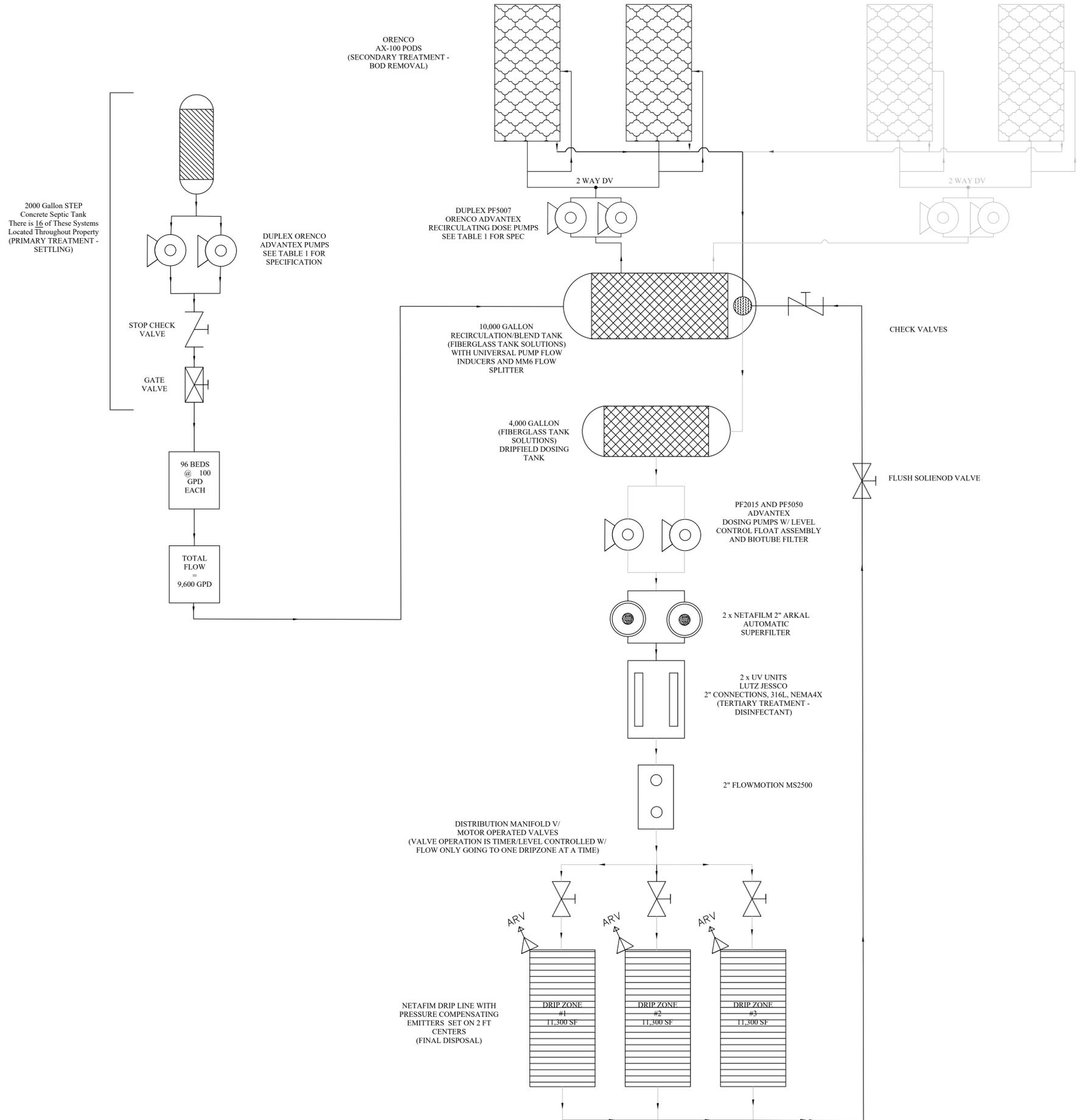
PROJECT NUMBER  
 247

SHEET TITLE  
 OVERALL SITE  
 PLAN

SHEET NUM. REV.  
 1.2 ---



OPTIONAL AX100 PODS  
REQUIRED ONLY IF EFFLUENT  
CONCENTRATION EXCEEDS  
MANUFACTURER DISCHARGE  
LIMITS.



SHEET SET GROUP:  
**WWTP**

ENGINEER  
**CODY MCELROY PE**

**DSH & ASSOCIATES,**  
10519 LEXINGTON  
DR, KNOXVILLE,  
TN

CLIENT  
**JEFF HARRIS**

PROJECT  
**ROSS WAY**

**Tower Road,**  
**Sevier County, TN**

DATE CREATED  
**12/13/24**

DATE PRINTED  
**12/17/24**

DATE REVISION  
----

SCALE  
**NO SCALE**

DESIGNED BY  
**DH**

DRAWN BY  
**CD**

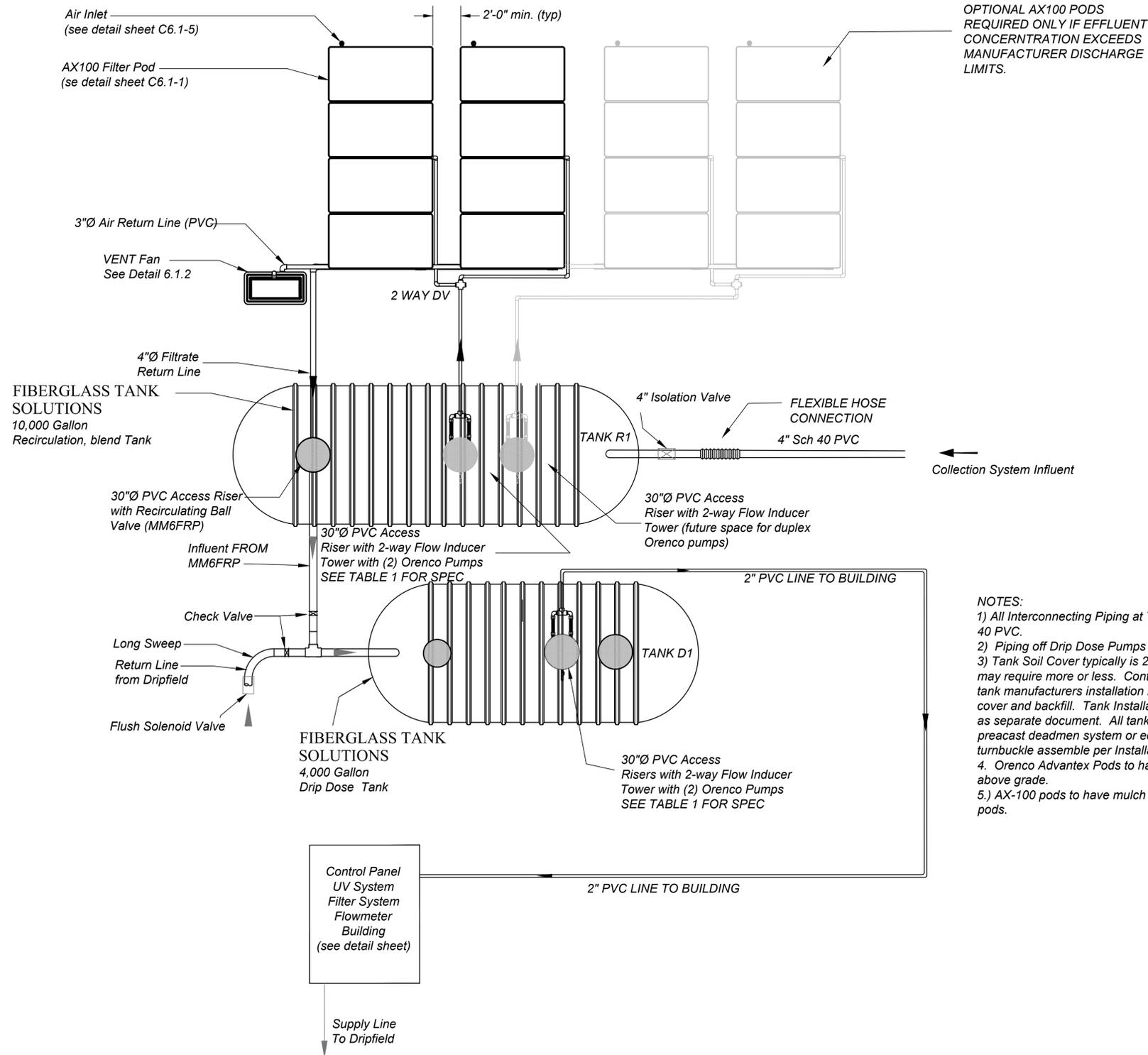
CHECKED BY  
**CM**

PROJECT NUMBER  
**247**

SHEET TITLE  
**WWTP PROCESS  
FLOW DIAGRAM**

SHEET NUM.	REV.
<b>2.0</b>	----

# Treatment Plant Layout



OPTIONAL AX100 PODS  
REQUIRED ONLY IF EFFLUENT  
CONCENTRATION EXCEEDS  
MANUFACTURER DISCHARGE  
LIMITS.

- NOTES:
- 1) All Interconnecting Piping at Treatment Facility to be schd 40 PVC.
  - 2) Piping off Drip Dose Pumps will be 2" sch. 40 PVC
  - 3) Tank Soil Cover typically is 24". However Site Conditions may require more or less. Contractor to follow Fiberglass tank manufacturers installation instructions with regard to cover and backfill. Tank Installation Manual to be submitted as separate document. All tanks must have be secured with precast deadmen system or equivalent w/holding strap and turnbuckle assemble per Installation Manual.
  4. Orenco Advantex Pods to have minimum exposure of 6" above grade.
  - 5.) AX-100 pods to have mulch placed around and between pods.



SHEET SET GROUP:  
**WWTP**

ENGINEER  
**CODY MCELROY PE**

**DSH & ASSOCIATES,**  
10519 LEXINGTON  
DR, KNOXVILLE,  
TN

CLIENT  
**JEFF HARRIS**

----

PROJECT  
**ROSS WAY**

**Tower Road,**  
**Sevier County, TN**

DATE CREATED  
**12/13/24**

DATE PRINTED  
**12/17/24**

DATE REVISION  
----

SCALE  
**NO SCALE**

DESIGNED BY  
**DH**

DRAWN BY  
**CD**

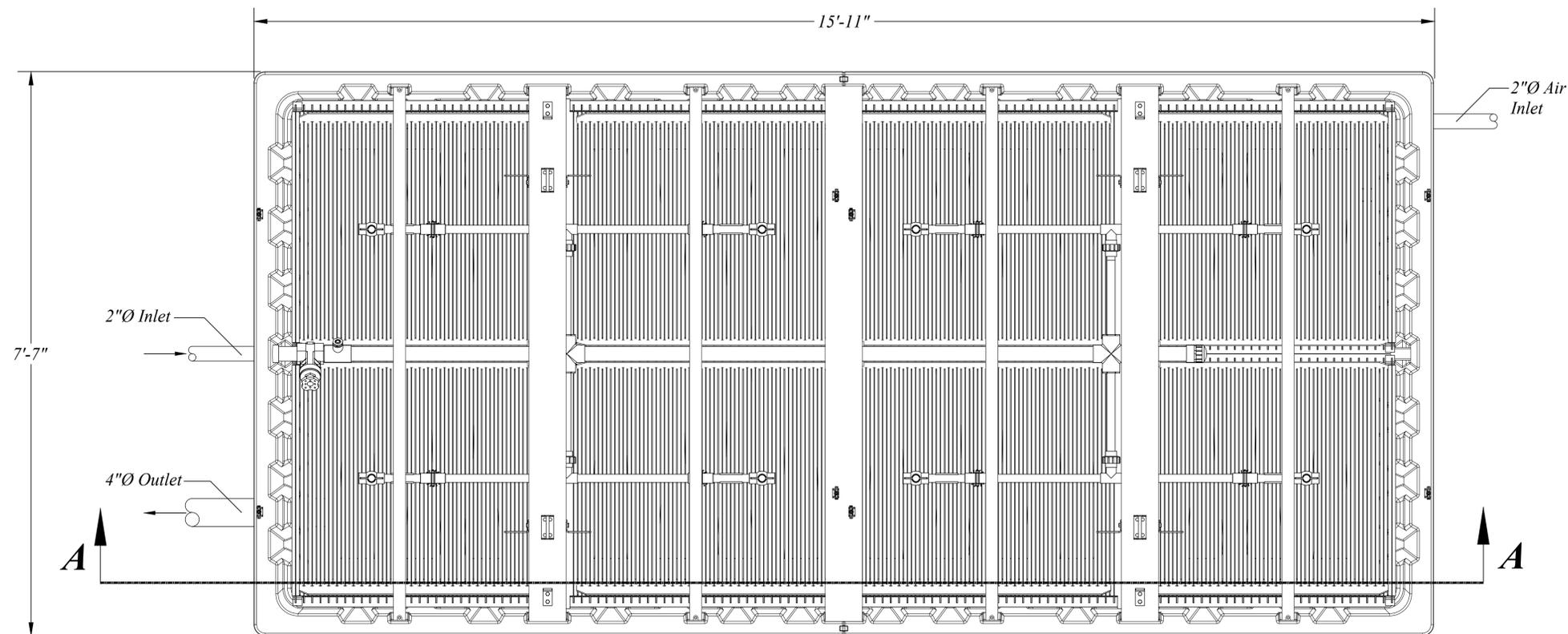
CHECKED BY  
**CM**

PROJECT NUMBER  
**247**

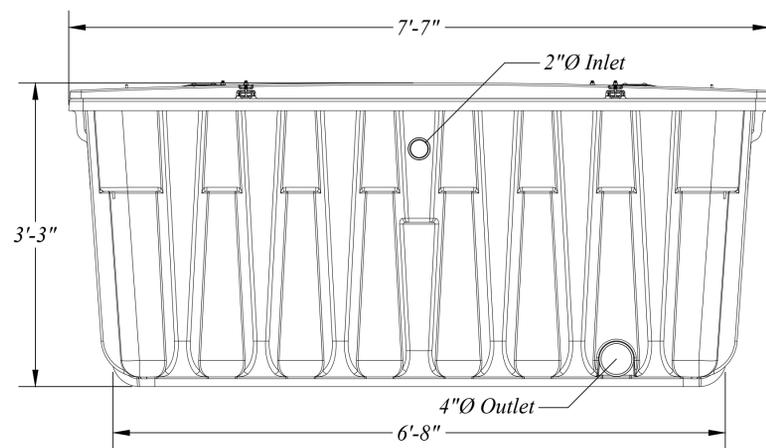
SHEET TITLE  
**WASTE WATER  
TREATMENT PLANT  
LAYOUT**

SHEET NUM. REV.  
**3.0** ----

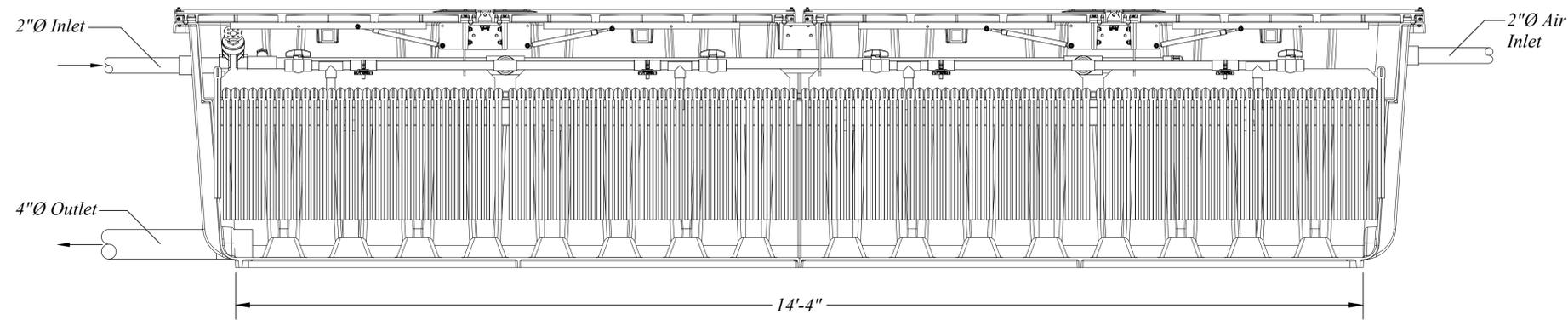
# 2 POD



**AX100 Plan View**  
Scale: 1" = 2'-0"



**AX100 End View**  
Scale: 1" = 2'-0"



**Section A-A**  
Scale: 1" = 2'-0"

SHEET: ###



© Orenco Systems, Inc.  
Portions or all of this Proposed System Configuration Drawing, as appropriate, may be reproduced and integrated into the site-specific layout and configuration of a system by its designer.

**Disclaimer:** This Proposed System Configuration Drawing is provided solely as a design aid and illustrates one possible configuration of a system that would comply with Orenco's design criteria for the requirements and/or specifications that have been communicated to Orenco (based on third-party standards testing protocols and performance reports, as applicable). Design decisions, including the actual layout and configuration of the system and its viability for the project, are at the sole discretion of the systems's designer.

**AdvanTex® AX100  
Treatment System**

**Filter Pod Dimensions**

Drawn By: **BAS**

Reviewed By: **JL**

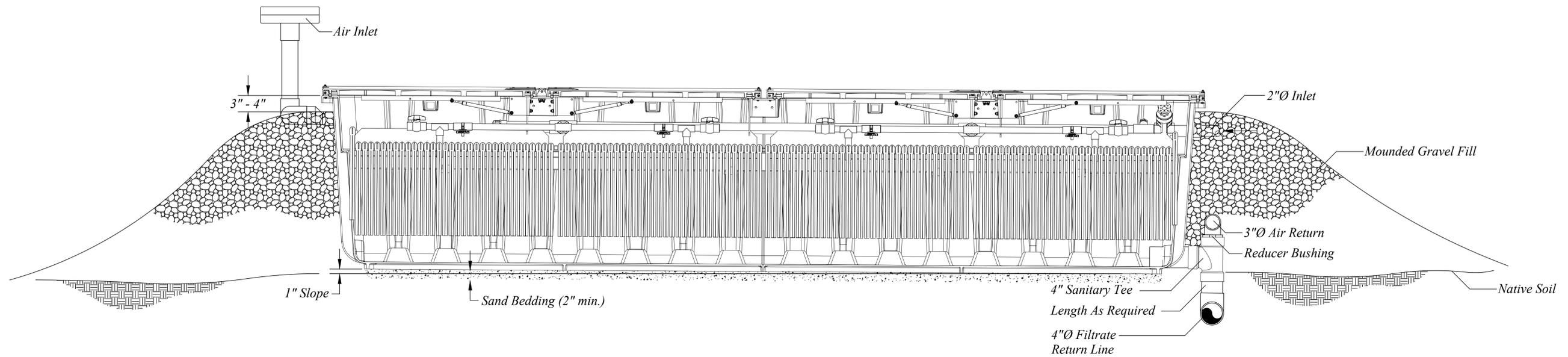
File: **AX100 POD WITH DIMS.DWG**

Scale: **1" = 2'-0"**

Sheet: **1 OF 1**

Rev: **4.0**

Date: **4/25/2022**



**Bermed Pod Detail**  
**(Manifold Air Inlet Option)**  
*Scale: 1" = 2'-0"*

SHEET: ###



© Orenco Systems, Inc.  
 Portions or all of this Proposed System Configuration Drawing, as appropriate, may be reproduced and integrated into the site-specific layout and configuration of a system by its designer.

**Disclaimer:** This Proposed System Configuration Drawing is provided solely as a design aid and illustrates one possible configuration of a system that would comply with Orenco's design criteria for the requirements and/or specifications that have been communicated to Orenco (based on third-party standards testing protocols and performance reports, as applicable). Design decisions, including the actual layout and configuration of the system and its viability for the project, are at the sole discretion of the systems's designer.

**AdvanTex® AX100 Treatment System Berming Detail**

**AX100 Berm Detail**

Drawn By: *BAS*

Reviewed By: *JL*

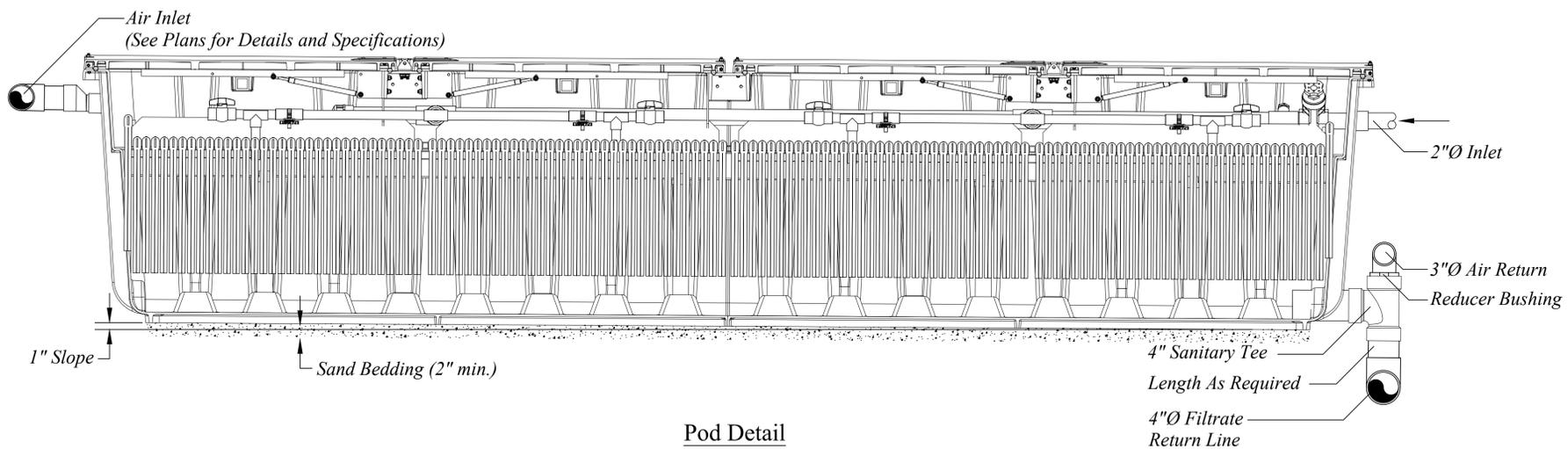
File: *AX100 BERM DETAIL.DWG*

Scale: *AS SHOWN*

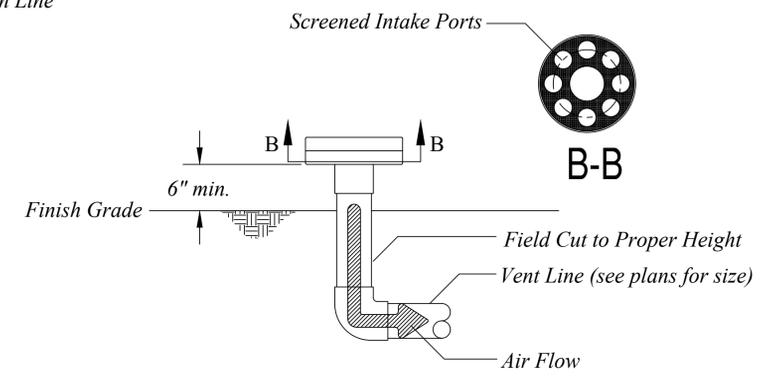
Sheet: *1 OF 1*

Rev: *5.0* Date: *4/25/2022*

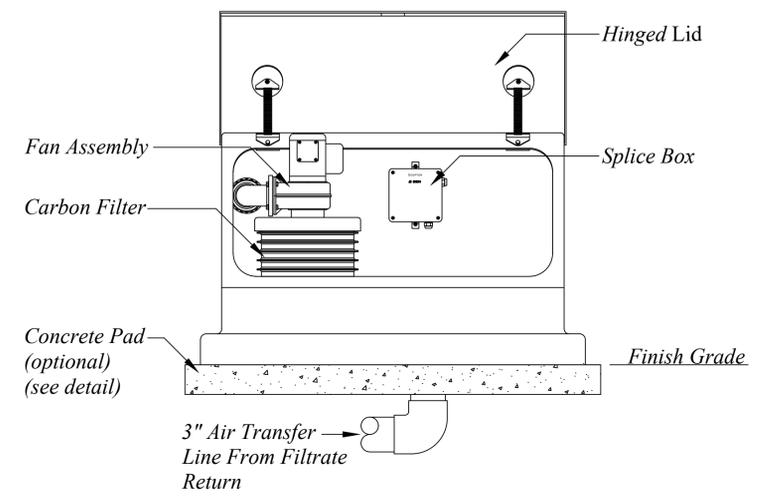
**AdvanTex® AX100 System**  
**Ventilation Details**



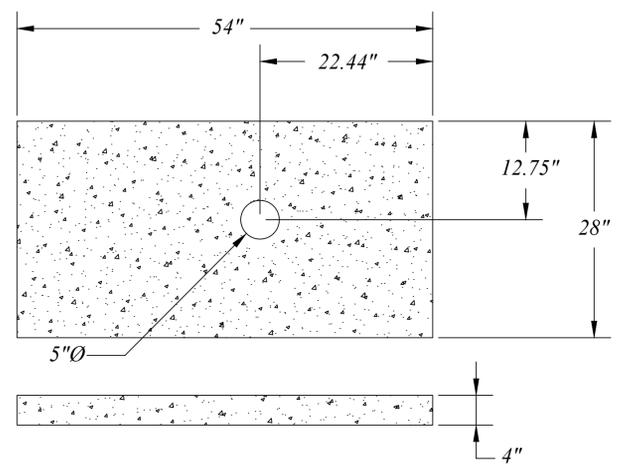
**Pod Detail**  
 Scale: 1" = 2'-0"



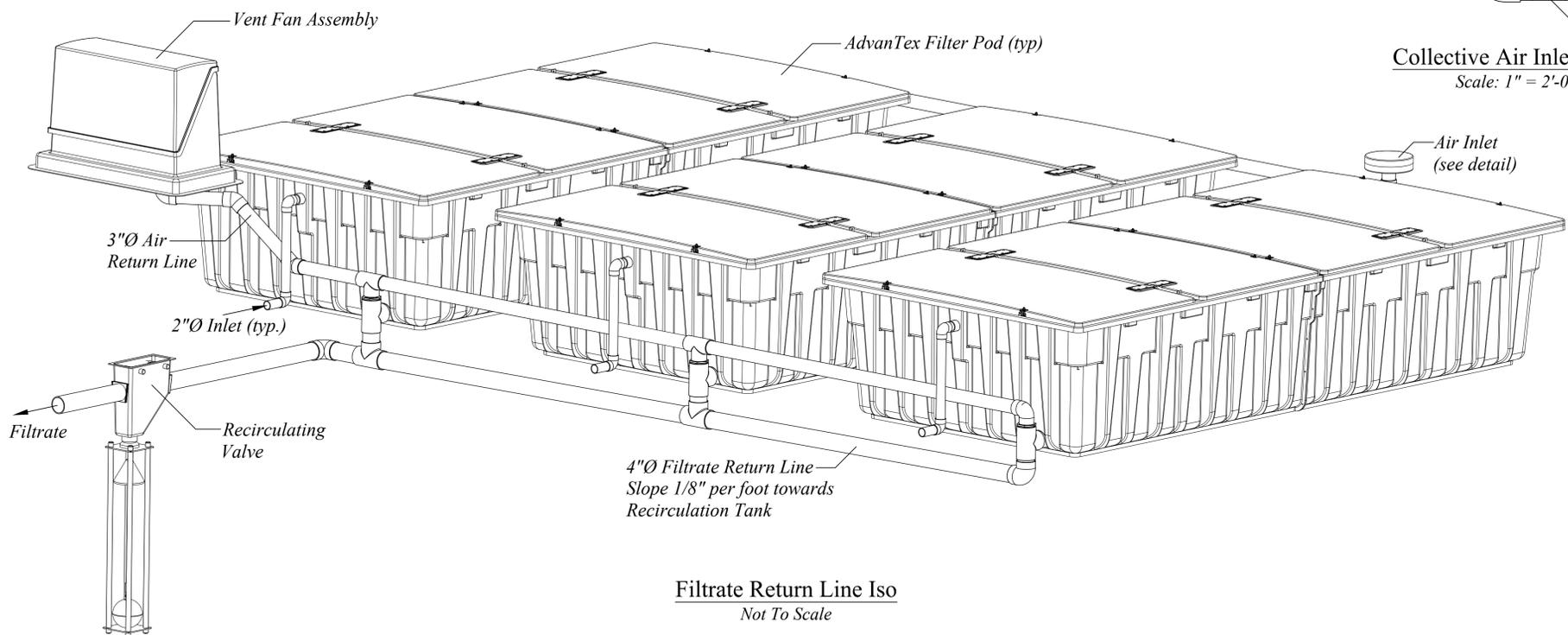
**Collective Air Inlet Detail**  
 Scale: 1" = 2'-0"



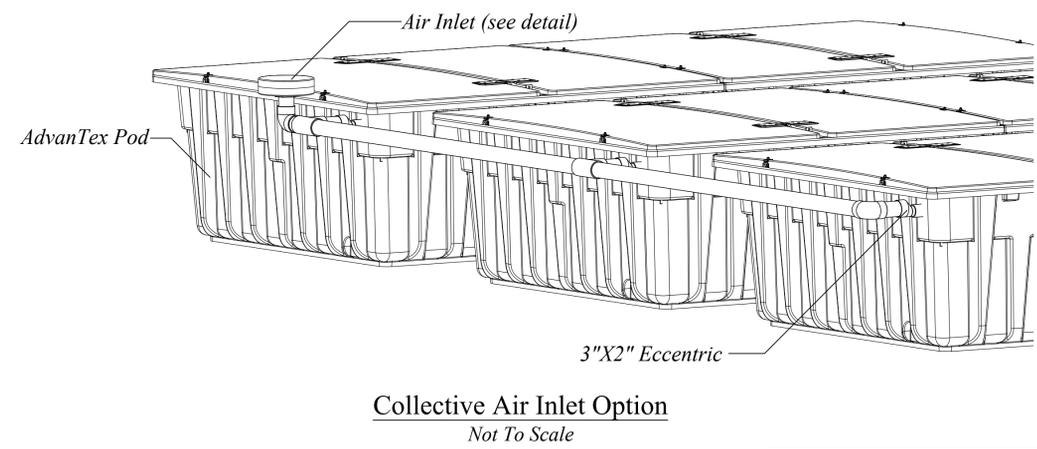
**Above Ground Fan Assembly**  
 Scale: 1" = 2'-0"



**Optional Fan Assy Pad Detail**  
 Scale: 1" = 2'-0"



**Filtrate Return Line Iso**  
 Not To Scale



**Collective Air Inlet Option**  
 Not To Scale



© Orenco Systems, Inc.  
 Portions or all of this Proposed System Configuration Drawing, as appropriate, may be reproduced and integrated into the site-specific layout and configuration of a system by its designer.

**Disclaimer:** This Proposed System Configuration Drawing is provided solely as a design aid and illustrates one possible configuration of a system that would comply with Orenco's design criteria for the requirements and/or specifications that have been communicated to Orenco (based on third-party standards testing protocols and performance reports, as applicable). Design decisions, including the actual layout and configuration of the system and its viability for the project, are at the sole discretion of the systems's designer.

**AdvanTex® AX100 Treatment System Ventilation**  
**Collective air inlet details**

Drawn By:	BAS	Scale:	As SHOWN
Reviewed By:	JL	Sheet:	1 OF 1
File:	COLLECTIVE AIR INLET DETAILS.DWG	Rev:	5.0
Date:	4/25/2022		

SHEET: ###



SHEET SET GROUP: ####

ENGINEER  
THIS IS A LONG  
ENGINEER NAME2  
SOMEWHERE IN  
TN2

CLIENT  
CLIENT NAME MR  
SMITH2  
THIS IS A LONG  
ADDRESS IN  
KNOXVILLE2

PROJECT  
####

THIS IS A LONG  
LOCATION PLACE  
IN TENNESSEE

DATE CREATED  
12/13/24

DATE PRINTED  
12/17/24

DATE REVISION  
####

SCALE

DESIGNED BY  
AWO2

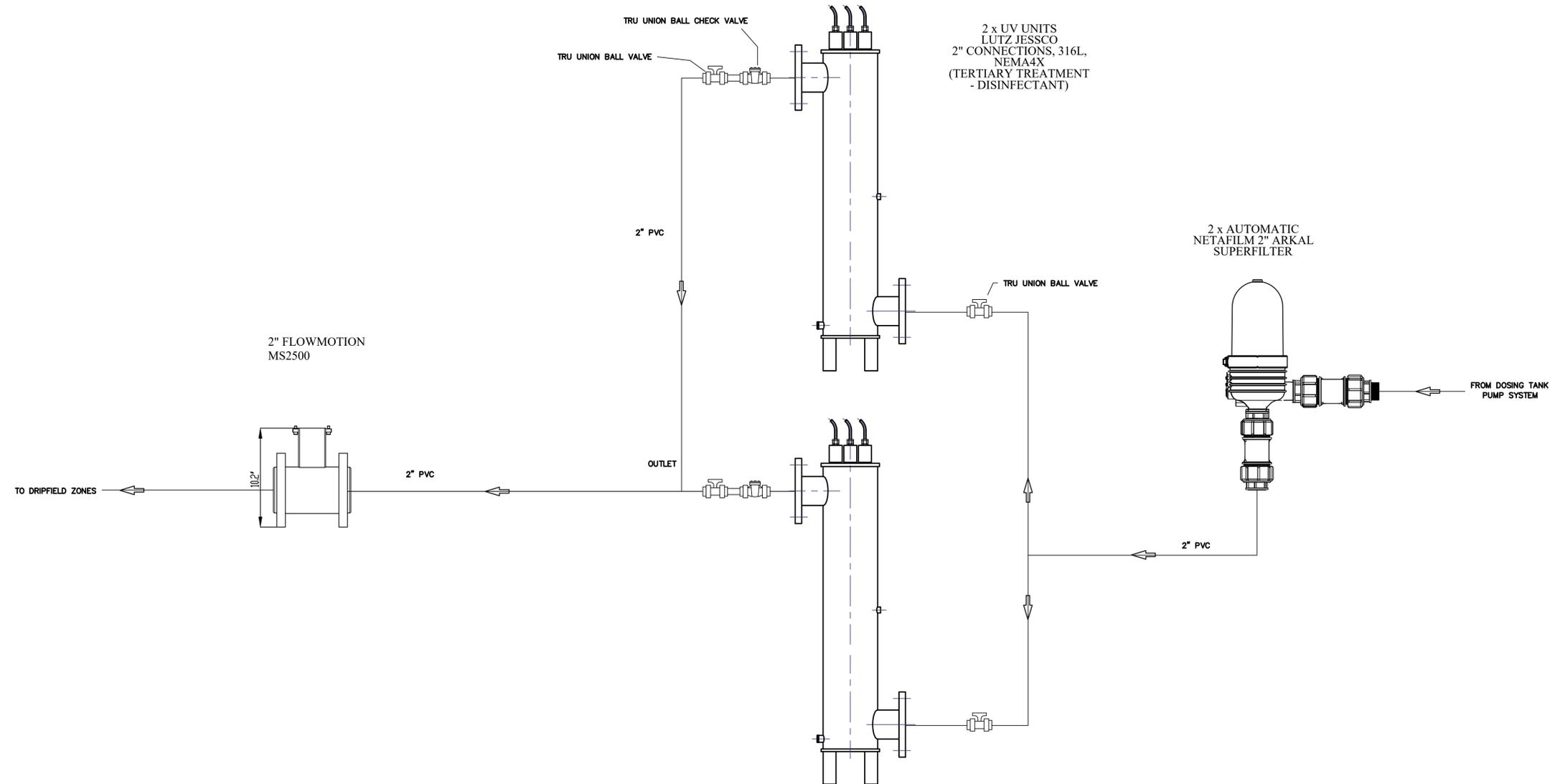
DRAWN BY  
CD2

CHECKED BY  
AWO2

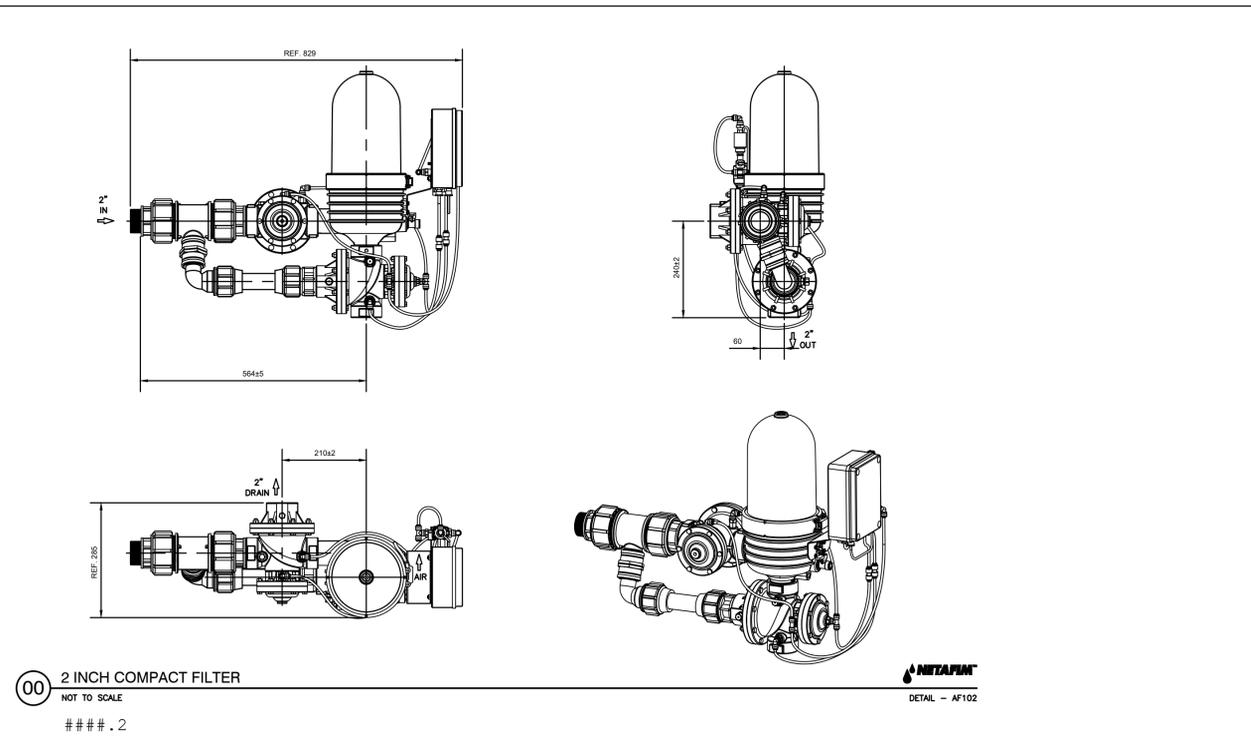
PROJECT NUMBER  
####

SHEET TITLE  
FLOW METER, UV,  
FILTER DETAILS

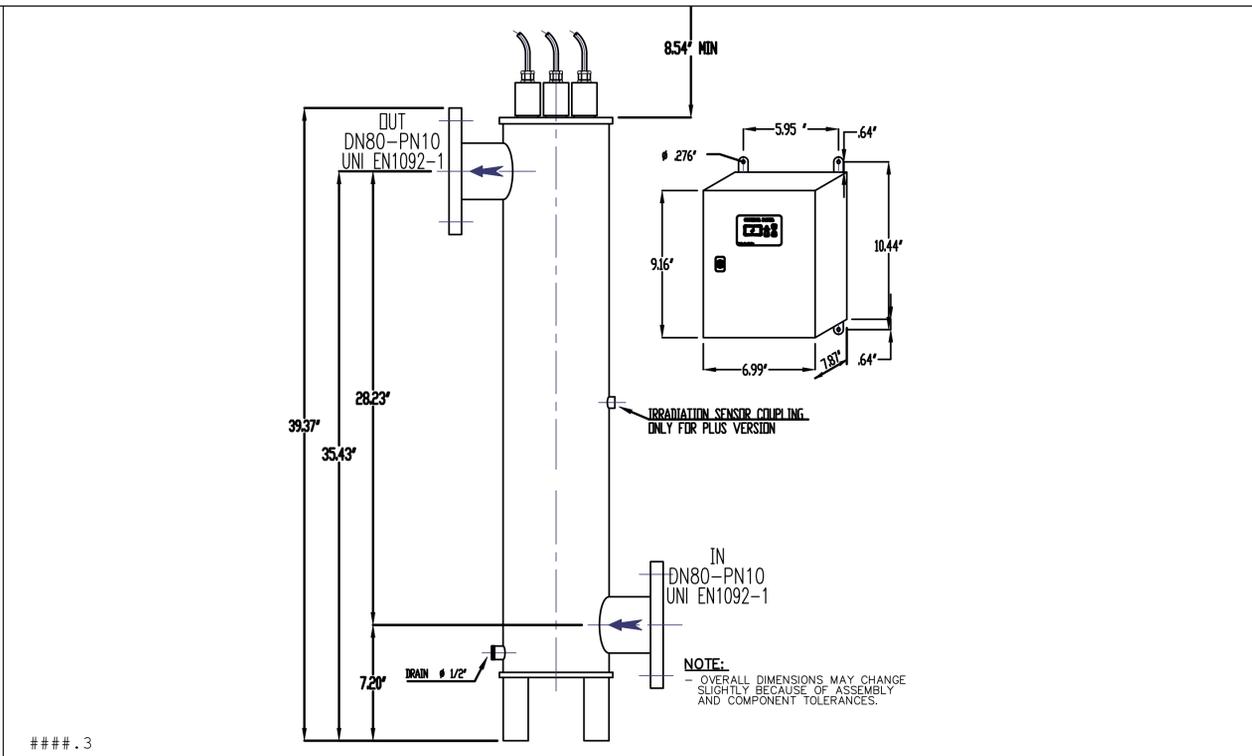
SHEET NUM. REV.  
#### ####



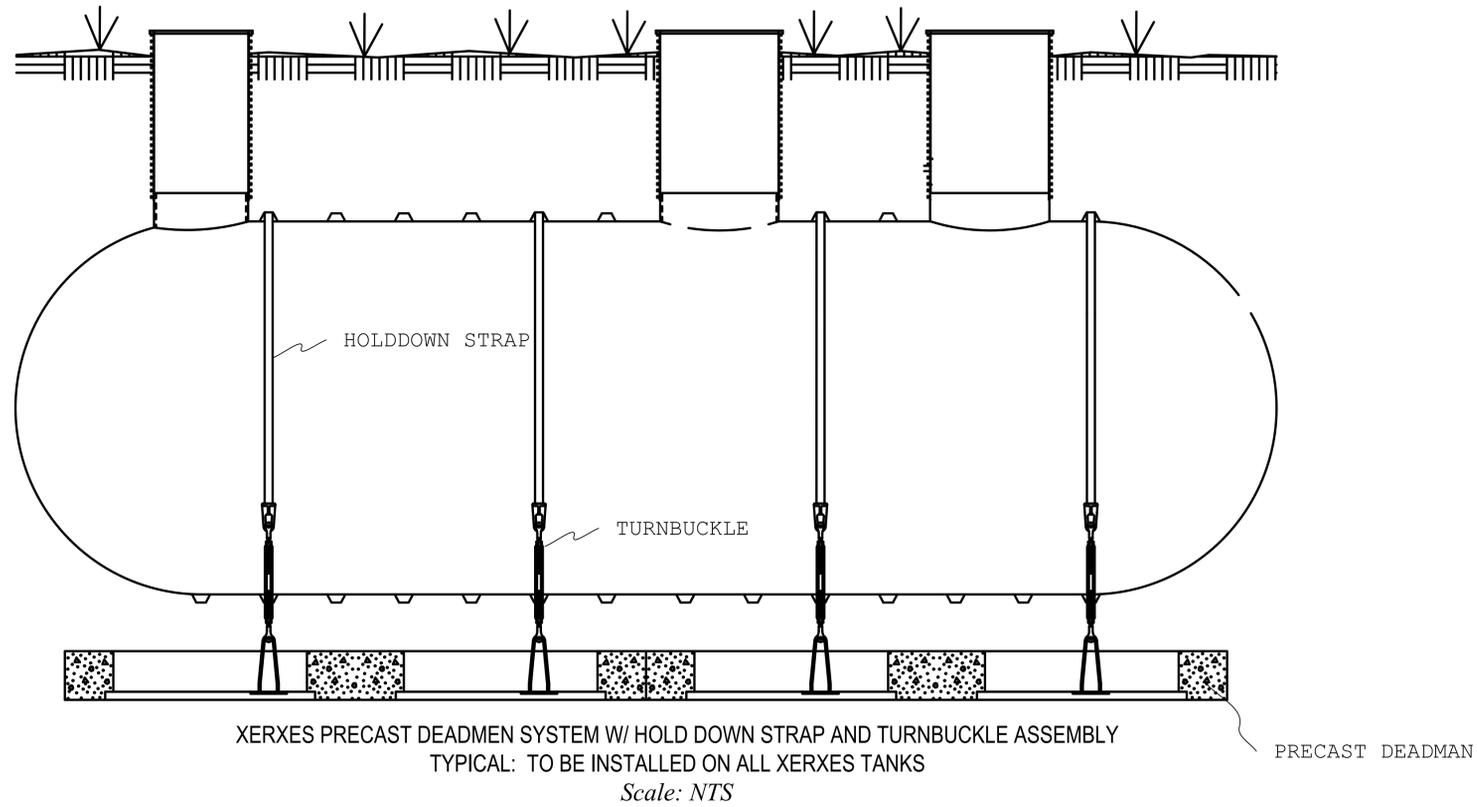
UV/FILTER/MAG METER LAYOUT DETAIL  
NTS  
####.1



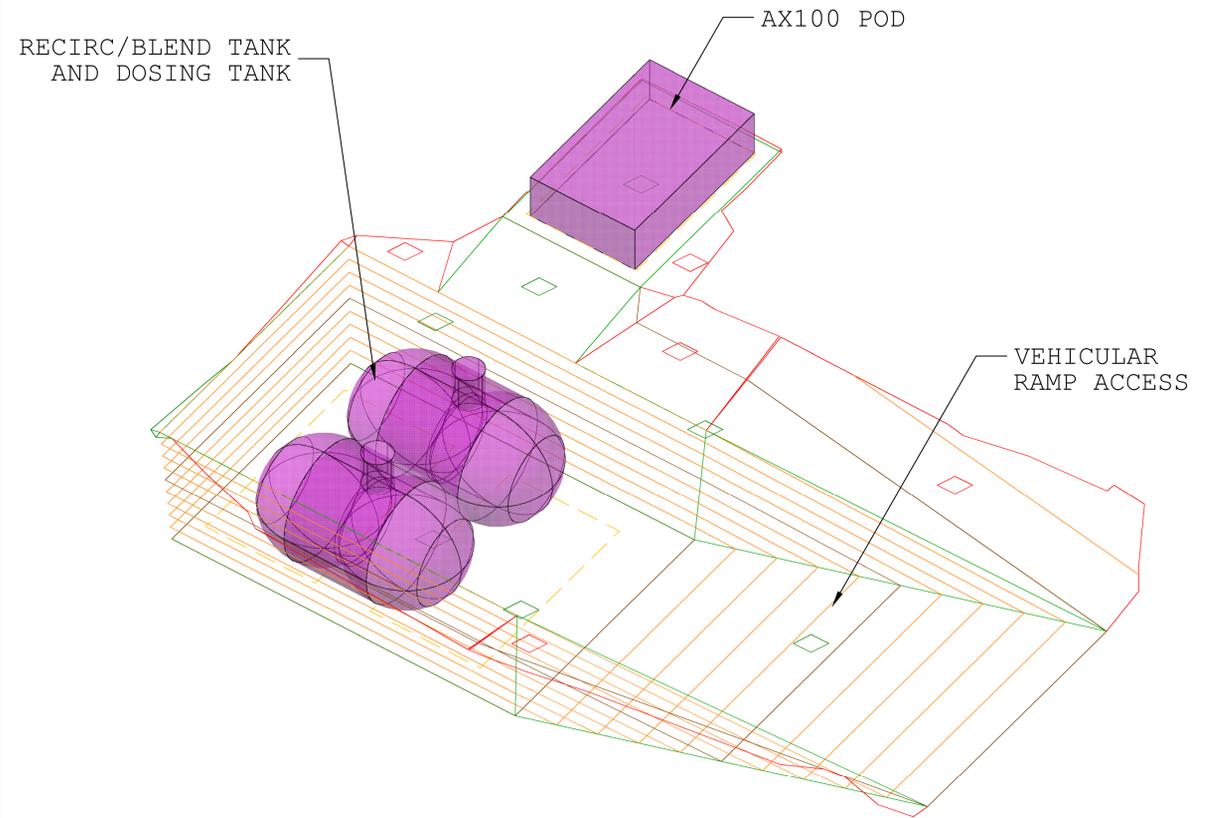
00 2 INCH COMPACT FILTER  
NOT TO SCALE  
####.2



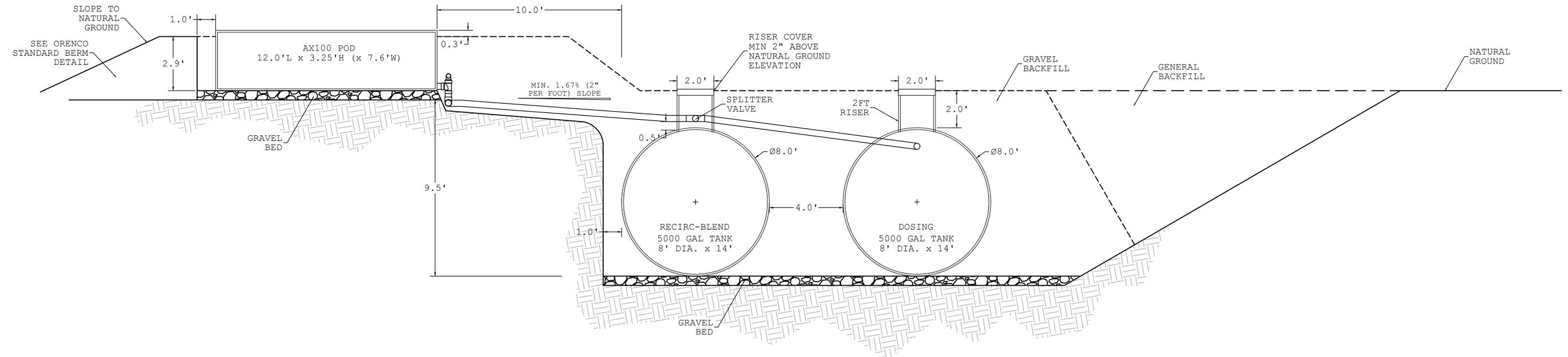
####.3



TANK DEADMAN DETAILS  
NTS



TANK EXCAVATION DETAIL  
NTS



TANK PLACEMENT DETAILS  
NTS



SHEET SET GROUP: ###

ENGINEER  
THIS IS A LONG  
ENGINEER NAME2  
SOMEWHERE IN  
TN2

CLIENT  
CLIENT NAME MR  
SMITH2  
THIS IS A LONG  
ADDRESS IN  
KNOXVILLE2

PROJECT  
###

THIS IS A LONG  
LOCATION PLACE  
IN TENNESSEE

DATE CREATED  
12/13/24

DATE PRINTED  
12/17/24

DATE REVISION  
###

SCALE

DESIGNED BY  
AWO2

DRAWN BY  
CD2

CHECKED BY  
AWO2

PROJECT NUMBER  
###

SHEET TITLE  
TANK ELEVATIONS

SHEET NUM. REV.  
###



SHEET SET GROUP: ####

ENGINEER  
THIS IS A LONG ENGINEER NAME2 SOMEWHERE IN TN2

CLIENT  
CLIENT NAME MR SMITH2  
THIS IS A LONG ADDRESS IN KNOXVILLE2

PROJECT  
####

THIS IS A LONG LOCATION PLACE IN TENNESSEE

DATE CREATED 12/13/24

DATE PRINTED 12/17/24

DATE REVISION ####

SCALE

DESIGNED BY AWO2

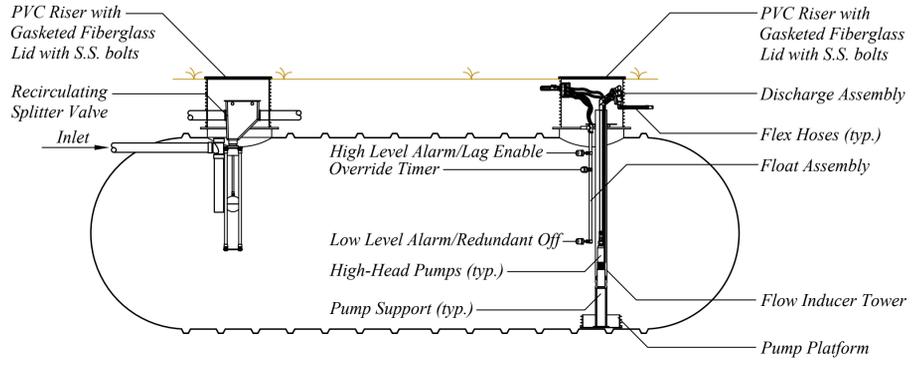
DRAWN BY CD2

CHECKED BY AWO2

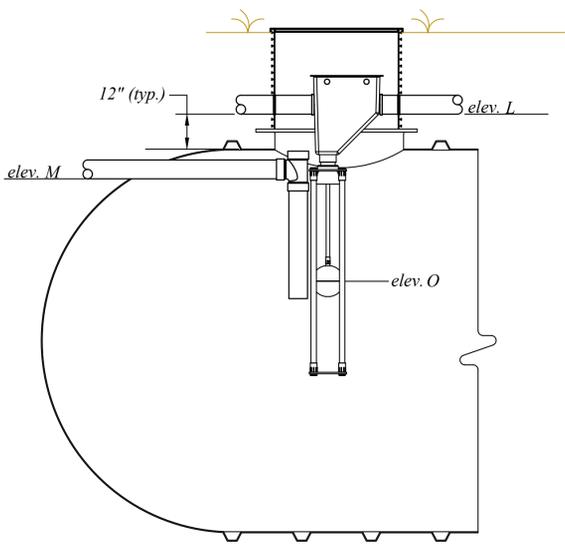
PROJECT NUMBER ####

SHEET TITLE  
TANK AND BASIN DETAILS

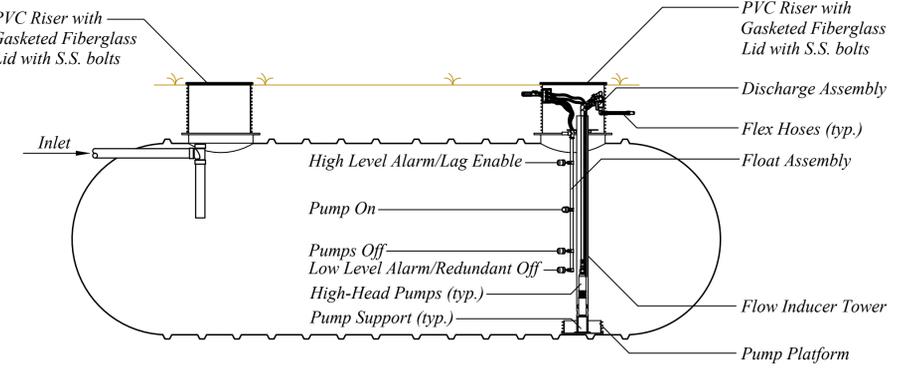
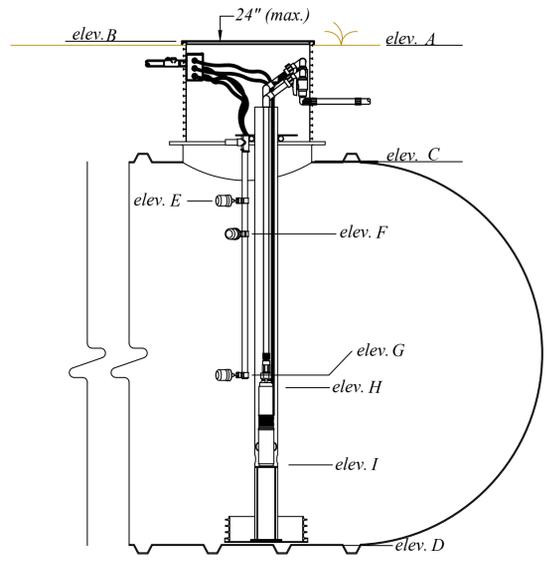
SHEET NUM. REV.  
#### ##



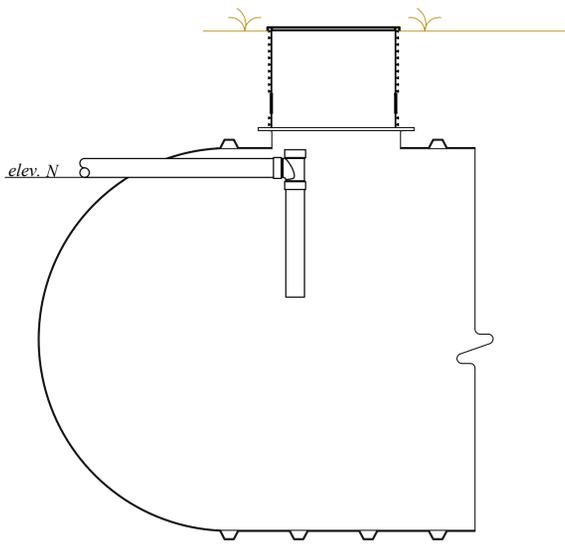
Recirculation Tank  
Scale: NTS



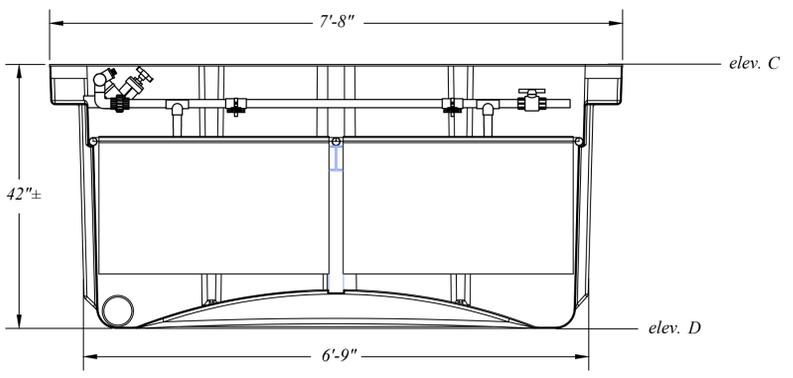
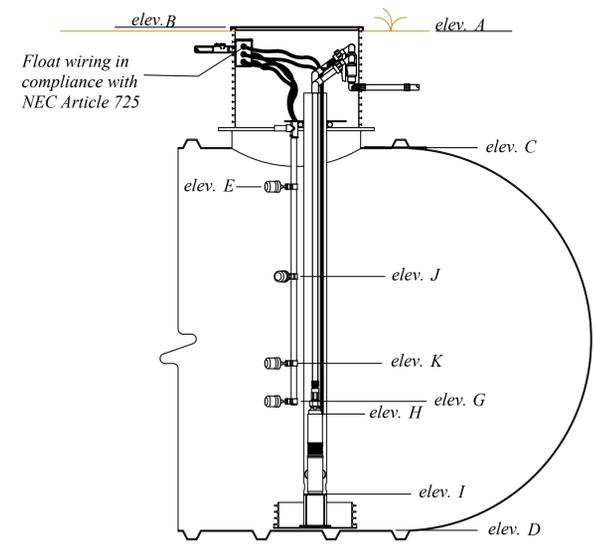
Recirculation Tank Float and RSV Settings  
Scale: NTS



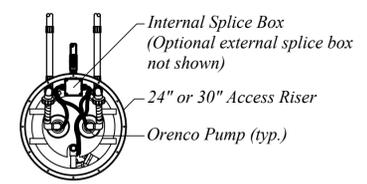
Dose Tank  
Scale: NTS



Dose Tank Float Settings  
Scale: NTS



AX100 Settings  
Scale: NTS



Duplex Flow Inducer  
Typical Plumbing Example  
Scale: 1" = 3'-0"

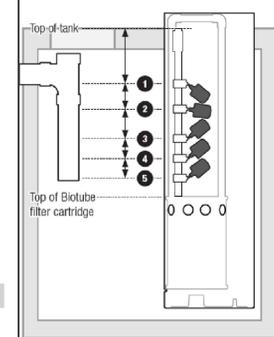
Two-Pump (Duplex) Systems, Demand-Dose

- High-Level Alarm or High-Level Alarm/Lag Pump Enable: Set at the same elevation as the tank inlet's invert.
- Lag Pump Enable (if used): Set 2in (51mm) below the switch above it.
- Lead Pump On: Set 2in (51mm) below the switch above it.
- Pumps Off: Set 1½in (38mm) below the switch above it.
  - Set this switch at least 5in above the top of the filter cartridge if a Redundant Off/Low-Level Alarm (R/O) is used. If an R/O float switch is not used, set this switch at least 3in (76mm) above the top of the filter cartridge.
- Redundant Off/Low-Level Alarm (if used): Set 3in (76mm) below the switch above it.
  - Set this switch at least 3in (76mm) above the top of the filter cartridge.
  - Make sure this float switch is above the pump's minimum liquid level.

Two-Pump (Duplex) Systems, Timed-Dose

- High-Level Alarm or High-Level Alarm/Lag Pump Enable: Set at the same elevation as the tank inlet's invert.
- Lag Pump Enable (if used): Set 2in (51mm) below the switch above it.
- Timer Override: Set 2in (51mm) below the switch above it.

Two-pump (duplex) float switch settings



EXTRACT FROM ORENCO INSTRUCTIONS FOR FLOAT SWITCH SETTINGS AND ADJUSTMENTS NOVEMBER 2024



SHEET SET GROUP: WWTP

ENGINEER  
CODY MCELROY PE

DSH & ASSOCIATES,  
10519 LEXINGTON  
DR, KNOXVILLE,  
TN

CLIENT  
JEFF HARRIS

PROJECT  
ROSS WAY

Tower Road,  
Sevier County, TN

DATE CREATED  
12/13/24

DATE PRINTED  
12/17/24

DATE REVISION  
---

SCALE  
#####

DESIGNED BY  
DH

DRAWN BY  
CD

CHECKED BY  
CM

PROJECT NUMBER  
247

SHEET TITLE  
TREATMENT PLANT  
SITE PLAN

SHEET NUM. REV.  
4.0 ---

LOT #1  
75x65  
15  
BEDRM

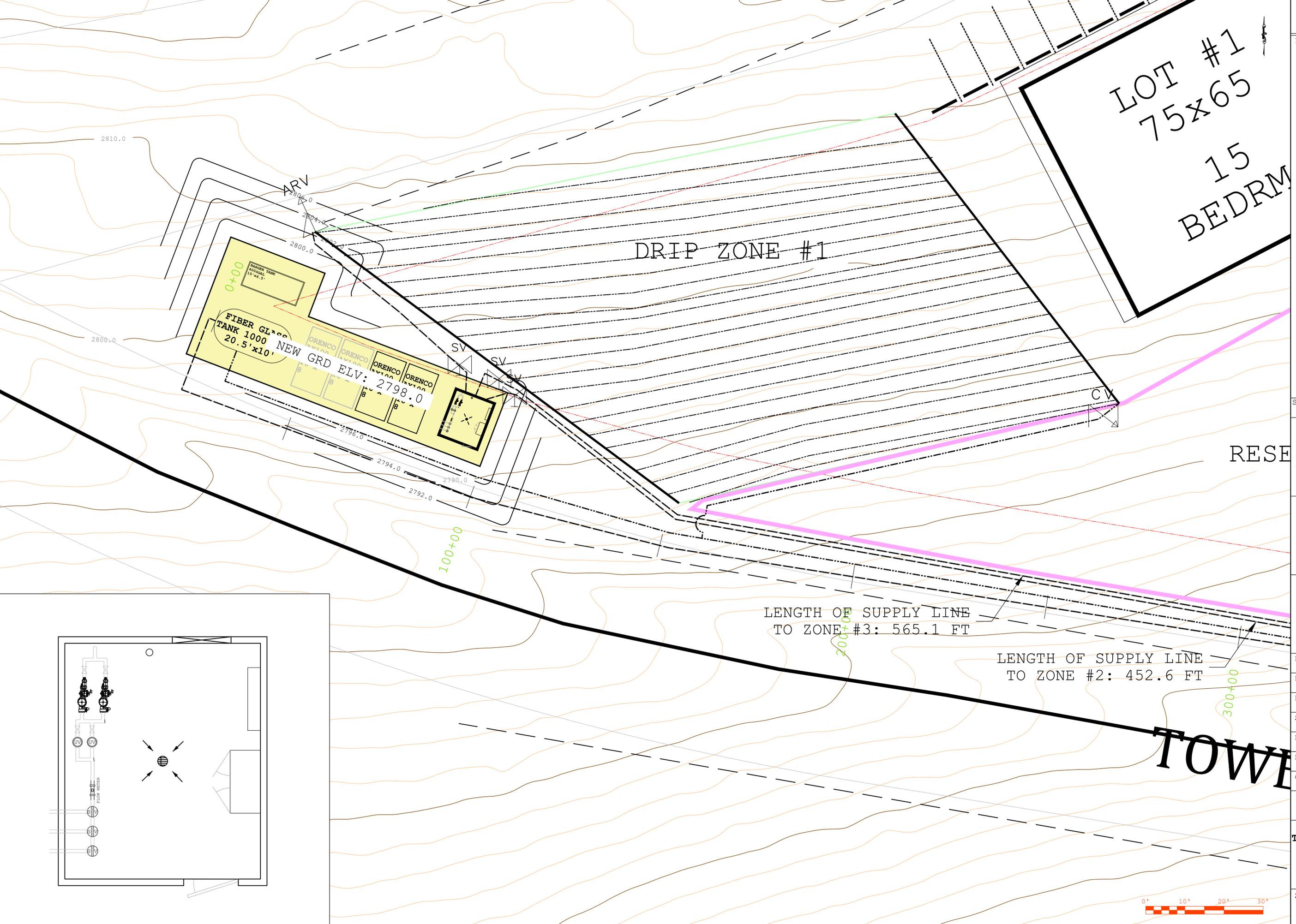
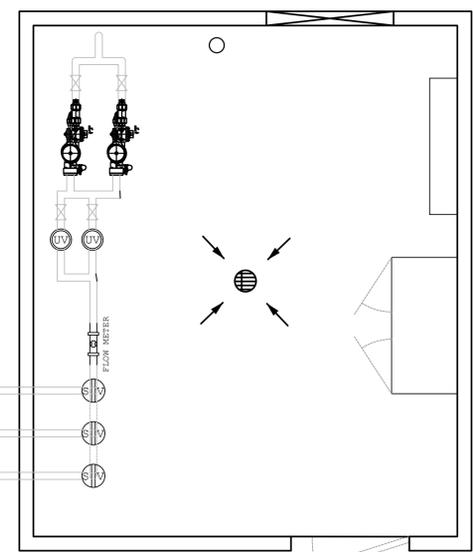
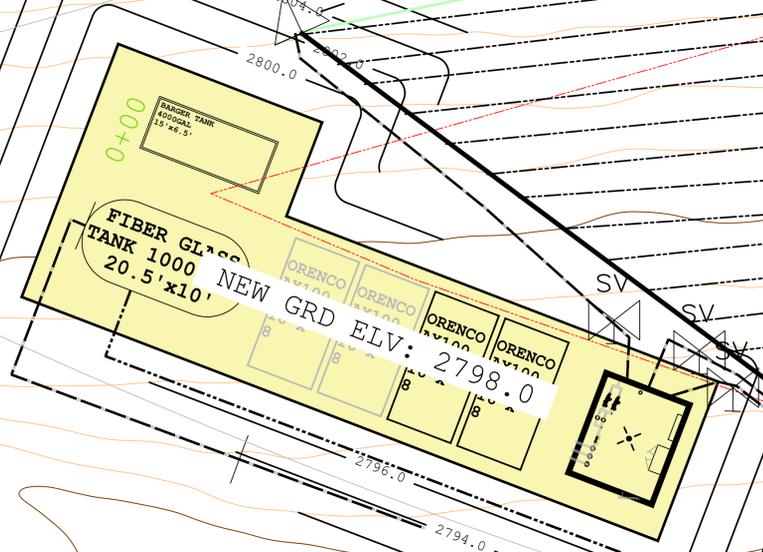
DRIP ZONE #1

RESE

LENGTH OF SUPPLY LINE  
TO ZONE #3: 565.1 FT

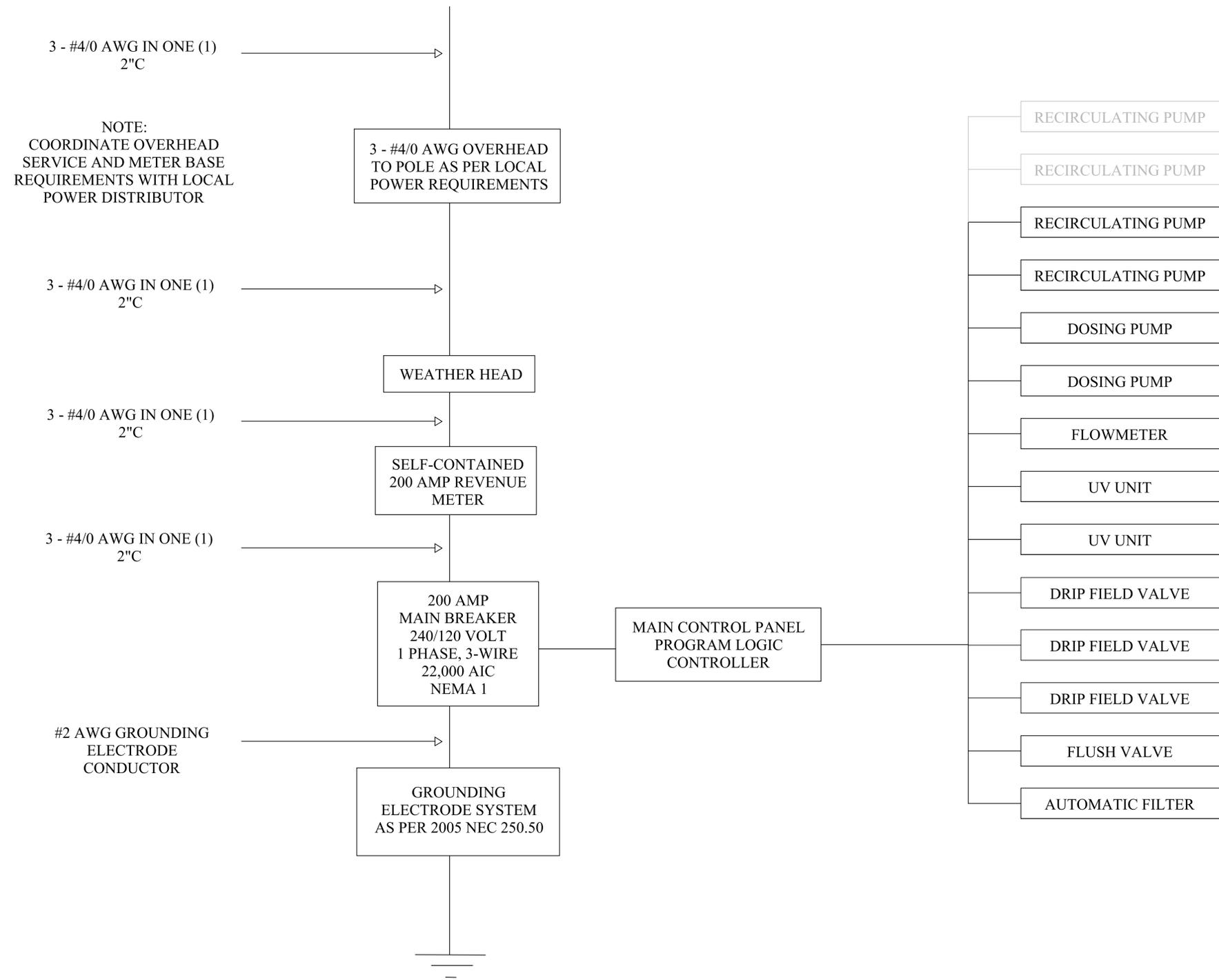
LENGTH OF SUPPLY LINE  
TO ZONE #2: 452.6 FT

TOWER



### PRIMARY POWER

### SECONDARY POWER



OPTIONAL AX100 PODS  
 REQUIRED ONLY IF EFFLUENT  
 CONCERNTRATION EXCEEDS  
 MANUFACTURER DISCHARGE  
 LIMITS. PROVIDE CAPACITY  
 FOR ADDITIONAL PUMPS IN  
 ELECTRICAL SYSTEM

SHEET SET GROUP: **WWTP**

ENGINEER  
**CODY MCELROY PE**

**DSH & ASSOCIATES,**  
 10519 LEXINGTON  
 DR, KNOXVILLE,  
 TN

CLIENT  
**JEFF HARRIS**

----

PROJECT  
**ROSS WAY**

**Tower Road,**  
**Sevier County, TN**

DATE CREATED **12/13/24**

DATE PRINTED **12/17/24**

DATE REVISION ----

SCALE **#####**

DESIGNED BY **DH**

DRAWN BY **CD**

CHECKED BY **CM**

PROJECT NUMBER  
**247**

SHEET TITLE  
**ELECTRICAL ONE  
 LINE DIAGRAM**

SHEET NUM.	REV.
<b>5.0</b>	----



SHEET SET GROUP: **WWTP**

ENGINEER: **CODY MCELROY PE**

**DSH & ASSOCIATES,**  
10519 LEXINGTON DR, KNOXVILLE, TN

CLIENT: **JEFF HARRIS**

PROJECT: **ROSS WAY**

**Tower Road, Sevier County, TN**

DATE CREATED: **12/13/24**

DATE PRINTED: **12/17/24**

DATE REVISION: **---**

SCALE: **1" = 50'**

DESIGNED BY: **DH**

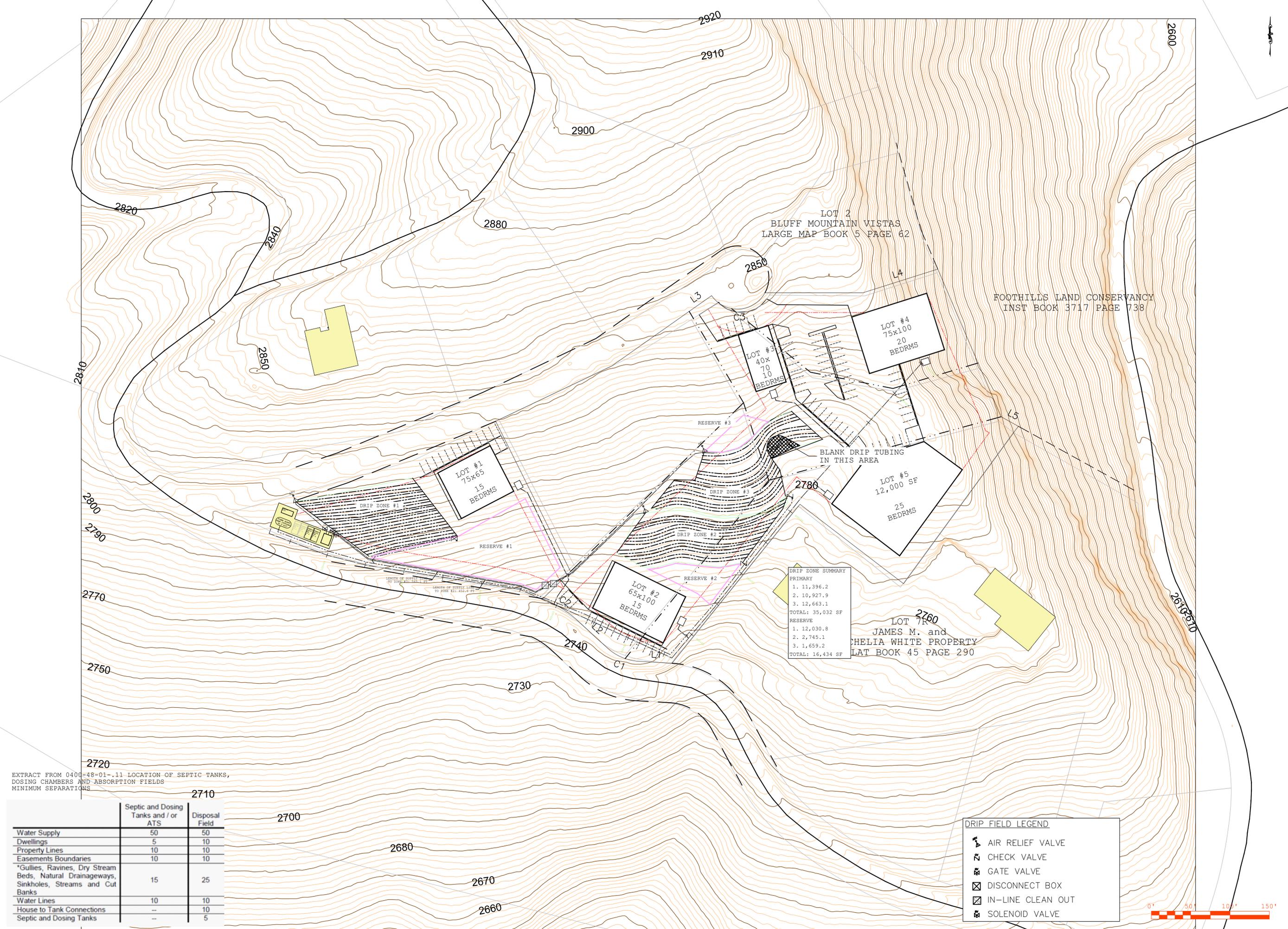
DRAWN BY: **CD**

CHECKED BY: **CM**

PROJECT NUMBER: **247**

SHEET TITLE: **DRIPFIELD LAYOUT**

SHEET NUM.: **6.0** REV.: **---**



**DRIP ZONE SUMMARY**

PRIMARY
1. 11,396.2
2. 10,927.9
3. 12,663.1
TOTAL: 35,032 SF
RESERVE
1. 12,030.8
2. 2,745.1
3. 1,659.2
TOTAL: 16,434 SF

**DRIP FIELD LEGEND**

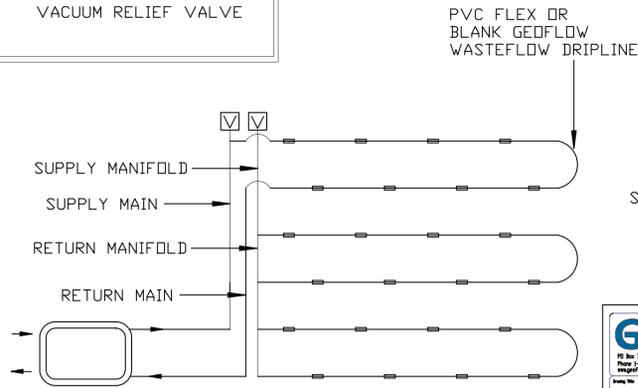
	AIR RELIEF VALVE
	CHECK VALVE
	GATE VALVE
	DISCONNECT BOX
	IN-LINE CLEAN OUT
	SOLENOID VALVE

EXTRACT FROM 0400-48-01-.11 LOCATION OF SEPTIC TANKS, DOSING CHAMBERS AND ABSORPTION FIELDS MINIMUM SEPARATIONS

	Septic and Dosing Tanks and / or ATS	Disposal Field
Water Supply	50	50
Dwellings	5	10
Property Lines	10	10
Easements Boundaries	10	10
*Gullies, Ravines, Dry Stream Beds, Natural Drainageways, Sinkholes, Streams and Cut Banks	15	25
Water Lines	10	10
House to Tank Connections	--	10
Septic and Dosing Tanks	--	5

**LEGEND**

- WASTEFLOW HEADWORKS WITH BIODISC FILTER AND FLUSH VALVES
- VACUUM RELIEF VALVE



**Geoflow**

PO Box 7721, Greensboro, NC 27417  
Phone: 1-800-850-2388  
http://www.geoflow.com

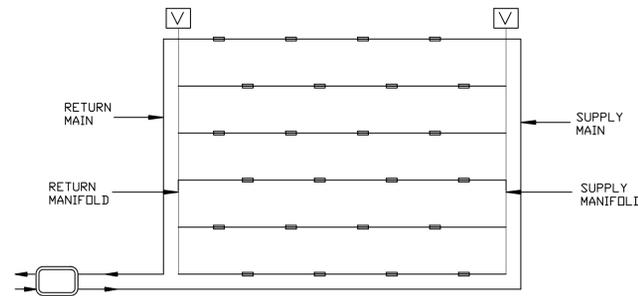
Drawn By: A TDM 6/2/23

Checked By: A TDM 6/2/23

Project No: GF586\_SingleZoneLooped

**LEGEND**

- WASTEFLOW HEADWORKS WITH BIODISC FILTER AND FLUSH VALVES
- VACUUM RELIEF VALVE



**Geoflow**

PO Box 7721, Greensboro, NC 27417  
Phone: 1-800-850-2388  
http://www.geoflow.com

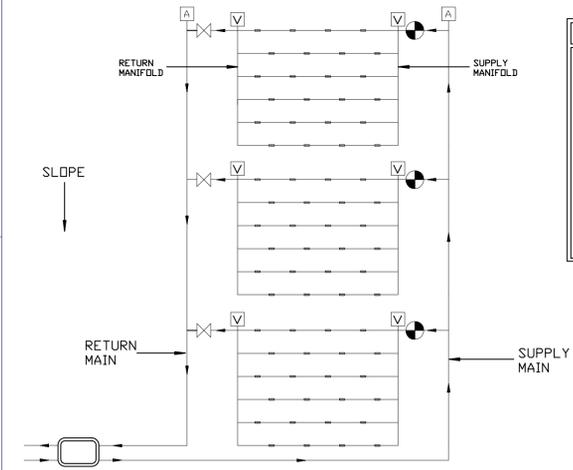
Drawn By: A TDM 6/2/23

Checked By: A TDM 6/2/23

Project No: GF585\_Single Zone

**LEGEND**

- BIODISC HEADWORKS AUTO WITH FILTER AND FIELD FLUSH VALVES
- AIR RELEASE VALVE
- VACUUM RELIEF VALVE
- ZONE VALVE
- CHECK VALVE



**Geoflow**

PO Box 7721, Greensboro, NC 27417  
Phone: 1-800-850-2388  
http://www.geoflow.com

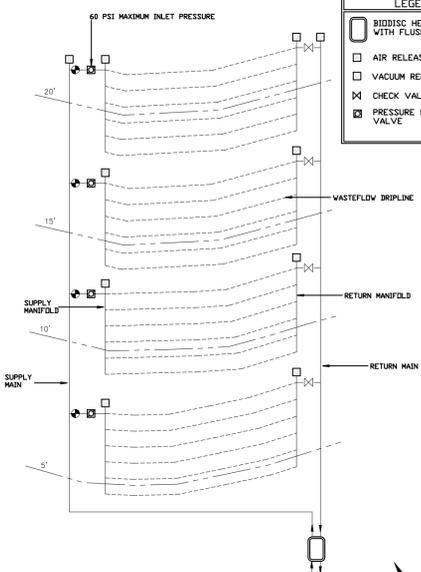
Drawn By: A TDM 6/2/23

Checked By: A TDM 6/2/23

Project No: GF588\_MultiZone

**LEGEND**

- BIODISC HEADWORKS WITH FLUSH VALVES
- AIR RELEASE VALVE
- VACUUM RELIEF VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE



**Geoflow**

PO Box 7721, Greensboro, NC 27417  
Phone: 1-800-850-2388  
http://www.geoflow.com

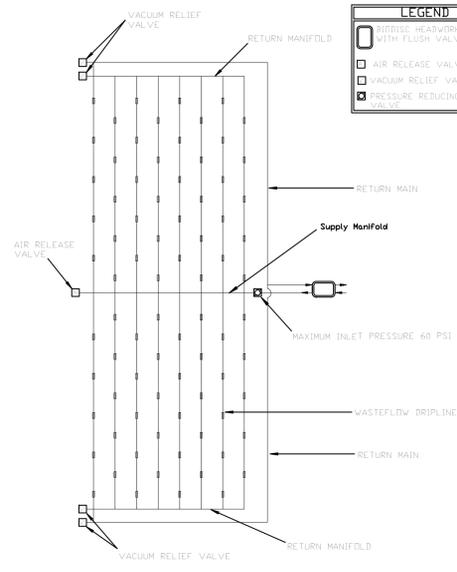
Drawn By: A TDM 6/3/23

Checked By: A TDM 6/3/23

Project No: GF607b\_SlopeLayout\_MultiZone

**LEGEND**

- BIODISC HEADWORKS WITH FLUSH VALVES
- AIR RELEASE VALVE
- VACUUM RELIEF VALVE
- PRESSURE REDUCING VALVE



**Geoflow**

PO Box 7721, Greensboro, NC 27417  
Phone: 1-800-850-2388  
http://www.geoflow.com

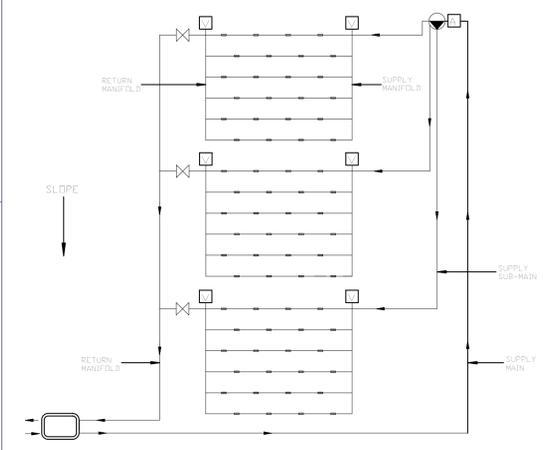
Drawn By: A ALL 4/1/23

Checked By: A ALL 4/1/23

Project No: G-DFX-XX-2008D-X-2005V-X

**LEGEND**

- BioDisc Headworks With Filter and Field Flush Valves
- Air Release Valve
- Vacuum Relief Valve
- Check Valve
- Index Valve



**Geoflow**

PO Box 7721, Greensboro, NC 27417  
Phone: 1-800-850-2388  
http://www.geoflow.com

Drawn By: A ALL 4/1/23

Checked By: A ALL 4/1/23

Project No: G-DFX-XX-2008D-X-2005V-X

USE THIS SCHEMATIC FOR DRIP FIELD LAYOUT

SHEET SET GROUP: WWTP

ENGINEER  
**ALAN OGLE**

TAO ENGINEERING LLC, 948 HORTON ROAD S.E. CLEVELAND, TN 37323

CLIENT  
**MARK JOOMA**

10444 OOTLEWAH GEORGETOWN ROAD HAMILTON TN 423-503-5869

PROJECT  
**MORGAN FARM**

OOTLEWAH GEORGETOWN RD HAMILTON COUNTY

DATE CREATED 2024-12-13

DATE PRINTED 2024-12-17

DATE REVISION

SCALE NTS

DESIGNED BY AWO

DRAWN BY CD

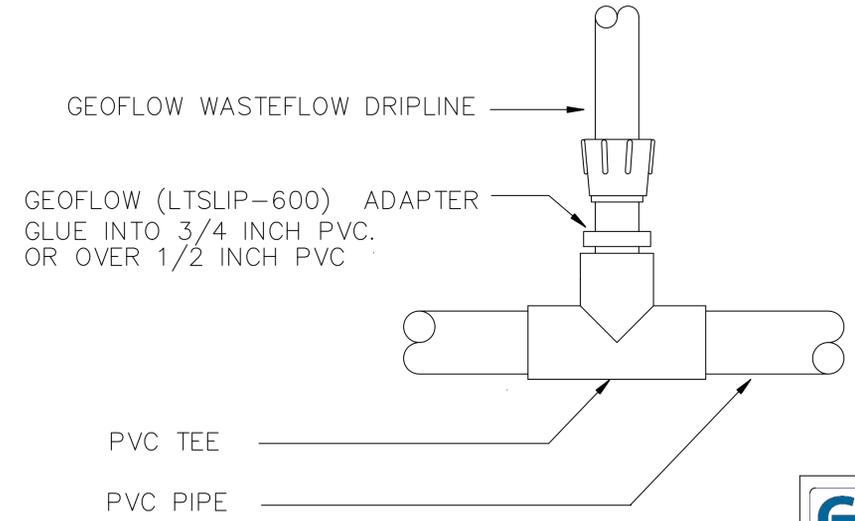
CHECKED BY AWO

PROJECT NUMBER 181

SHEET TITLE ACCEPTABLE DRIP FIELD CONFIGURATIONS

SHEET NUM. 3.1

REV. ---

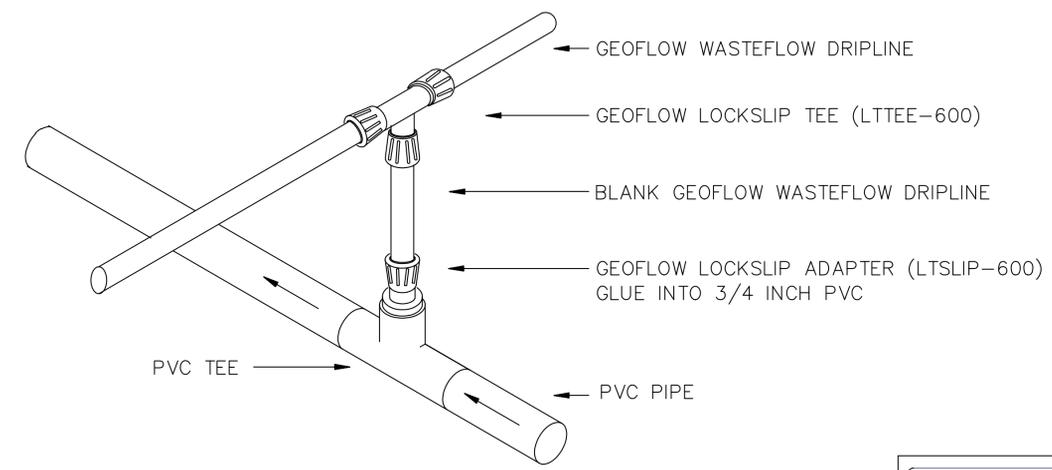


**Geoflow**  
 PO Box 77571 Greensboro, NC 27417  
 Phone 1-888-828-3388  
 www.geoflow.com

Drawing Title  
 Manifold Connection

Sheet	REV	Drawn by	Blank Date	Approved by
	A	HSDM	6/3/23	

Fig No.  
 GF504LS\_ManifoldConnection

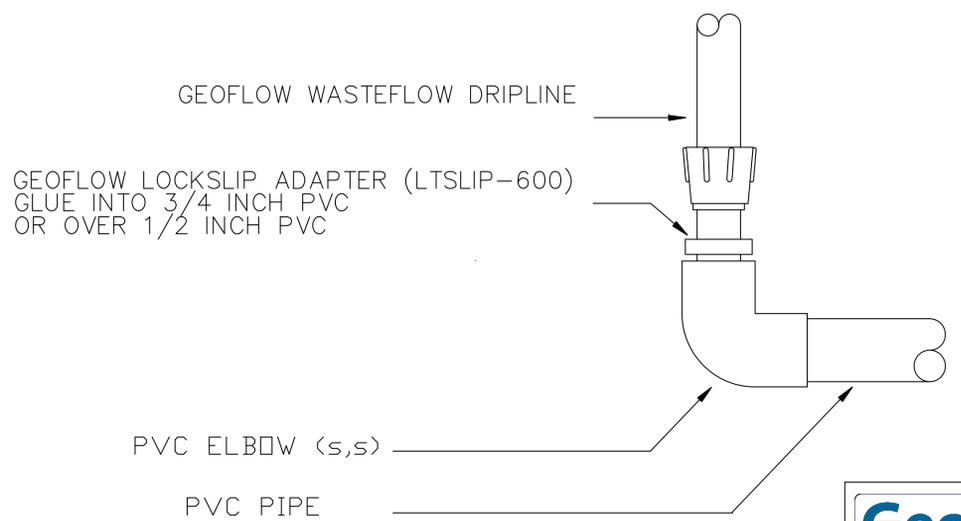


**Geoflow**  
 PO Box 77571 Greensboro, NC 27417  
 Phone 1-888-828-3388  
 www.geoflow.com

Drawing Title  
 Manifold Connection Center Feed

Sheet	REV	Drawn by	Blank Date	Approved by
	A	HDM	6/3/23	

Fig No.  
 GF510\_ManifoldConnection\_CenterFeedRiser

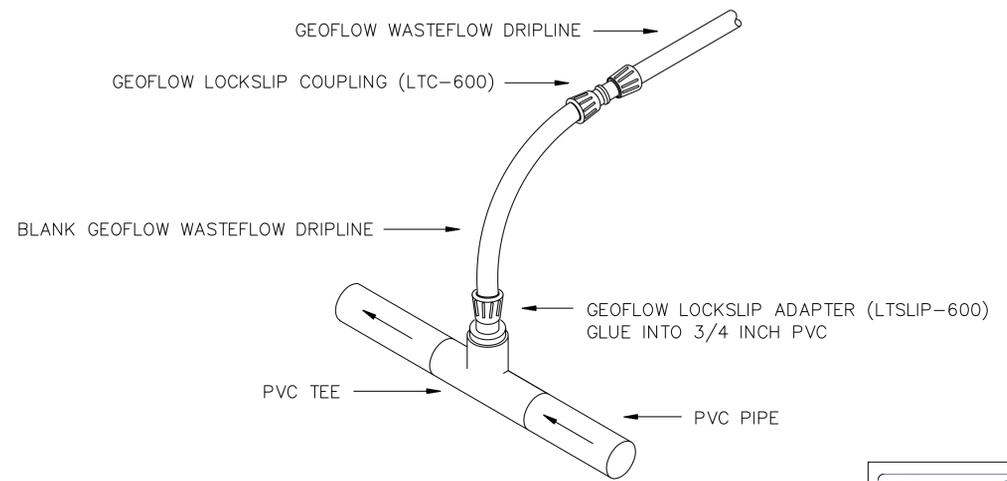


**Geoflow**  
 PO Box 77571 Greensboro, NC 27417  
 Phone 1-888-828-3388  
 www.geoflow.com

Drawing Title  
 Manifold Connection PVC Elbow

Sheet	REV	Drawn by	Blank Date	Approved by
	A	HDM	6/3/23	

Fig No.  
 GF506LSManifoldConnection



**Geoflow**  
 PO Box 77571 Greensboro, NC 27417  
 Phone 1-888-828-3388  
 www.geoflow.com

Drawing Title  
 Manifold Connection - End Feed

Sheet	REV	Drawn by	Blank Date	Approved by
	A	HDM	6/3/23	

Fig No.  
 GF511\_ManifoldConnection\_WFPlainRiserElbow

SHEET SET GROUP:  
**WWTP**

ENGINEER  
**ALAN OGLE**

**TAO ENGINEERING LLC, 948 HORTON ROAD S.E. CLEVELAND, TN 37323**

CLIENT  
**MARK JOOMA**

**10444 OOTLEWAH GEORGETOWN ROAD HAMILTON TN 423-503-5869**

PROJECT  
**MORGAN FARM**

**OOTLEWAH GEORGETOWN RD HAMILTON COUNTY**

DATE CREATED  
**2024-12-13**

DATE PRINTED  
**2024-12-17**

DATE REVISION  
 ---

SCALE  
**NTS**

DESIGNED BY  
**AWO**

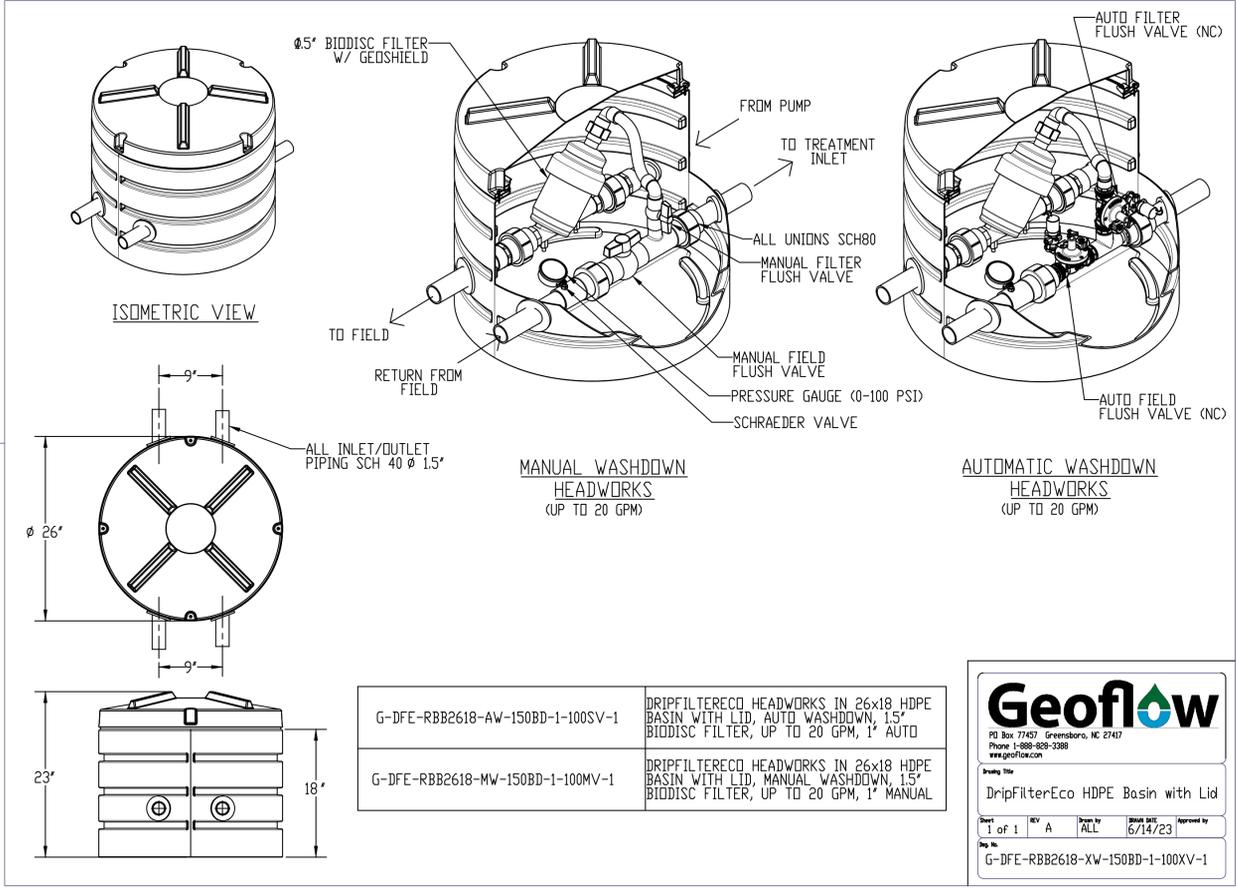
DRAWN BY  
**CD**

CHECKED BY  
**AWO**

PROJECT NUMBER  
**181**

SHEET TITLE  
**DRIP FIELD MANIFOLDS**

SHEET NUM. REV.  
**3.2** ---



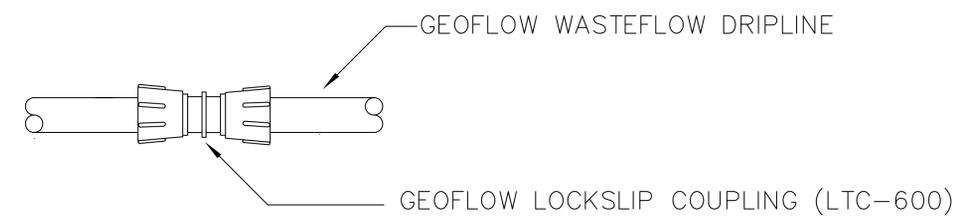
G-DFE-RBB2618-AW-150BD-1-100SV-1	DRIPFILTERECO HEADWORKS IN 26x18 HDPE BASIN WITH LID, AUTO WASHDOWN, 1.5" BIODISC FILTER, UP TO 20 GPM, 1" AUTO
G-DFE-RBB2618-MW-150BD-1-100MV-1	DRIPFILTERECO HEADWORKS IN 26x18 HDPE BASIN WITH LID, MANUAL WASHDOWN, 1.5" BIODISC FILTER, UP TO 20 GPM, 1" MANUAL

**Geoflow**  
 PO Box 77457 Greensboro, NC 27417  
 Phone: 1-888-929-1388  
 www.geoflow.com

Drawing Title  
 DripFilterEco HDPE Basin with Lid

Sheet 1 of 1 REV A Drawn by ALL Date 6/14/23 Approved by

Part No.  
 G-DFE-RBB2618-XW-150BD-1-100XV-1



**Geoflow**  
 PO Box 77571 Greensboro, NC 27417  
 Phone: 1-888-929-1388  
 www.geoflow.com

Drawing Title  
 Lockslip Coupling

Sheet 1 of 1 REV A Drawn by HDM Date 6/3/23 Approved by

Part No.  
 GF501-Lock Slip Coupling

SHEET SET GROUP: **WWTP**

ENGINEER  
**CODY MCELROY PE**

DSH ASSOCIATES  
 10519 LEXINGTON AVE  
 KNOXVILLE TN

CLIENT  
**MARK JOOMA**

10444 OOTLEWAH  
 GEORGETOWN ROAD  
 HAMILTON TN  
 423-503-5869

PROJECT  
**MORGAN FARM**

OOTLEWAH GEORGETOWN  
 RD HAMILTON COUNTY

DATE CREATED  
**2024-12-13**

DATE PRINTED  
**2024-12-17**

DATE REVISION  
 ---

SCALE  
**NTS**

DESIGNED BY  
**CM**

DRAWN BY  
**CD**

CHECKED BY  
**DH**

PROJECT NUMBER  
**181**

SHEET TITLE  
**GEOFLOW PART REFERENCING**

SHEET NUM. REV.  
**3.3** ---

G-DFX-XX-200BD-X-200SV-X

1 2 3 4 5 6 7

PART NUMBER TABLE			
1	BRAND	G	GEOFLOW
2	PRODUCT LINE	DFE	DripFilterECO
		DFP	DripFilterPRO
3	FILTER FLUSH ACTION	MW	MANUAL WASHDOWN
		AW	AUTO WASHDOWN
		AB	AUTO BACKWASH
4	FILTER SIZE/TYPE	200	2"
		BD	BiDisc
5	FILTER QTY	-X	RACK QUANTITY
6	VALVE SIZE/TYPE	200	2"
		SV	SOLENOID VALVE
7	VALVE QTY	-X	RACK QUANTITY

DRAWING MODEL DETAILS W/ DRAWING SHEETS					
PART NUMBER	FILTER RACKS	TOTAL FILTERS	SOLENOID RACKS	TOTAL SOLENOIDS	DRAWING SHEET
G-DFP-AW-200BD-1-200SV-1	1	3	1	4	2
G-DFP-AW-200BD-1	1	3	0	0	TBD
G-DFP-AW-200BD-2	2	6	0	0	5
G-DFP-200SV-1	0	0	1	4	3/4
G-DFP-200SV-2	0	0	2	8	3/4
G-DFP-200SV-3	0	0	3	12	TBD
G-DFP-200SV-4	0	0	4	16	TBD

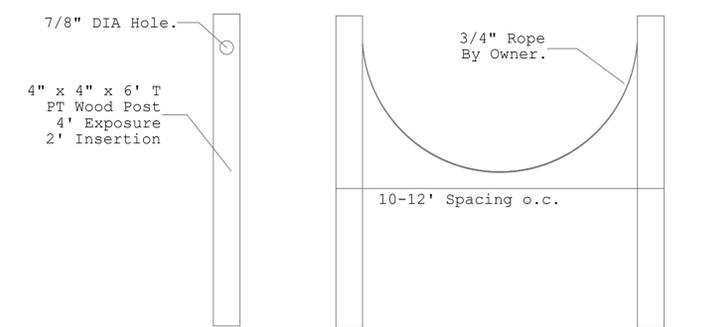
- NOTES:
- Residential headworks models DripFilterEco
  - Commercial headworks models DripFilterPro
  - Qty 3 filters per rack
  - Qty 4 solenoids per rack

**Geoflow**  
 PO Box 77571 Greensboro, NC 27417  
 Phone: 1-888-929-1388  
 www.geoflow.com

Drawing Title  
 DripFilter Master Drawing

Sheet 1 of 5 REV A Drawn by ALL Date 4/1/23 Approved by

Part No.  
 G-DFX-XX-200BD-X-200SV-X



3.1.5 DRIP ZONES FENCE DETAIL

COLLECTION SYSTEM LEGEND

-  AIR RELIEF VALVE
-  CHECK VALVE
-  GATE VALVE
-  DISCONNECT BOX
-  IN-LINE CLEAN OUT
-  END LINE CLEAN OUT
-  FORCE MAIN 2"
-  FORCE MAIN 4"
-  1.5" GRAVITY COLLECTION



SHEET SET GROUP: ####

ENGINEER  
**THIS IS A LONG  
 ENGINEER NAME2  
 SOMEWHERE IN  
 TN2**

CLIENT  
**CLIENT NAME MR  
 SMITH2  
 THIS IS A LONG  
 ADDRESS IN  
 KNOXVILLE2**

PROJECT  
**####**  
**THIS IS A LONG  
 LOCATION PLACE  
 IN TENNESSEE**

DATE CREATED  
**12/13/24**

DATE PRINTED  
**12/17/24**

DATE REVISION  
**####**

SCALE  
**1" = 100'**

DESIGNED BY  
**AWO2**

DRAWN BY  
**CD2**

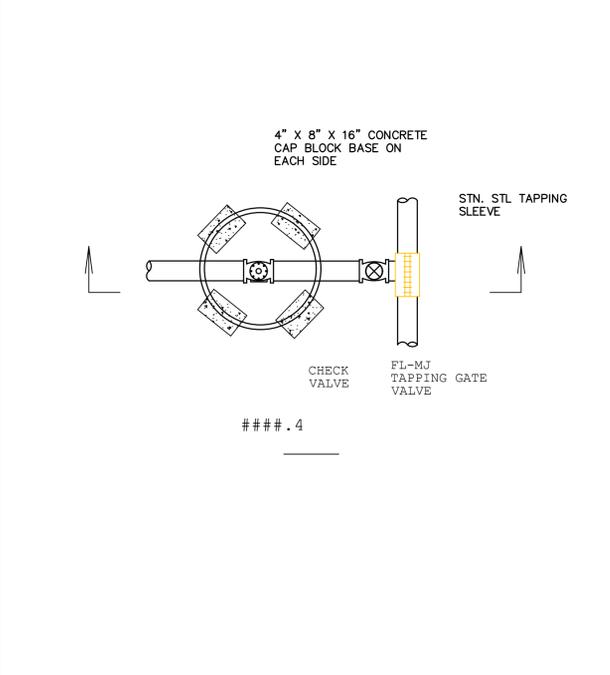
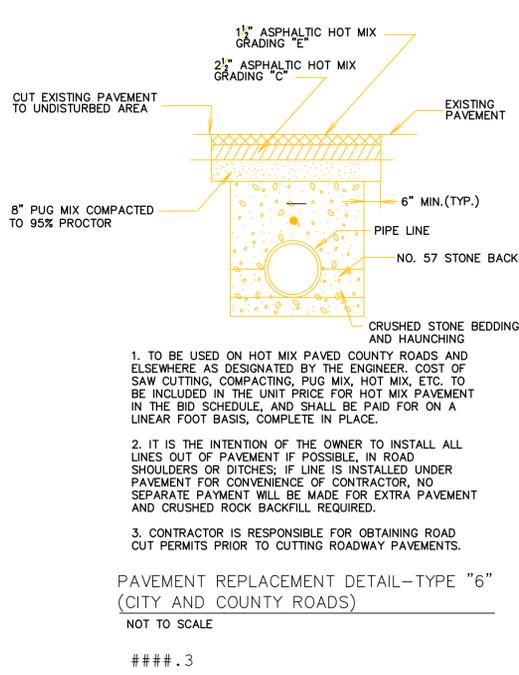
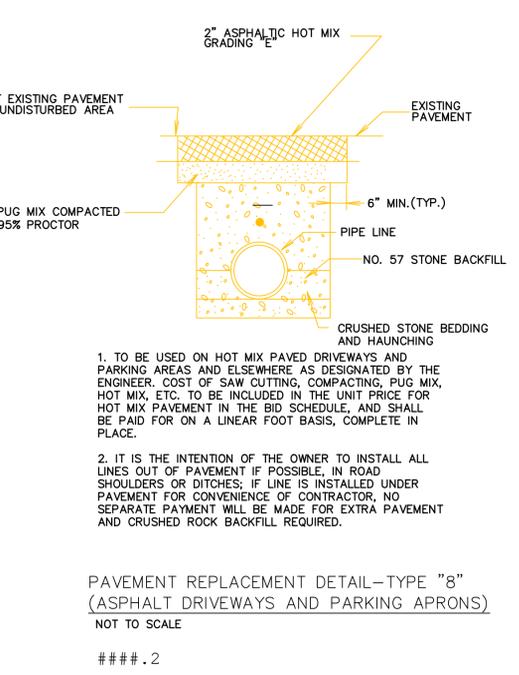
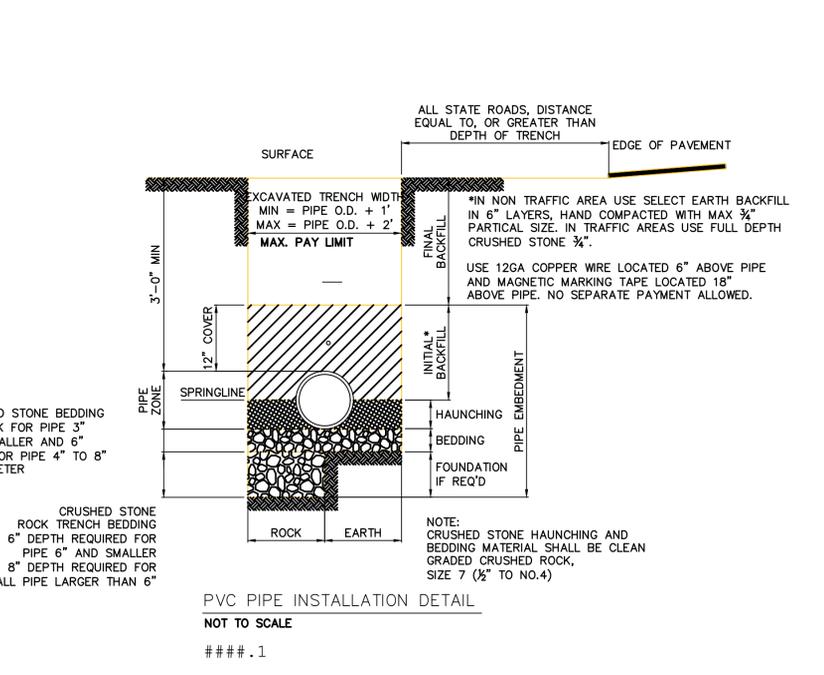
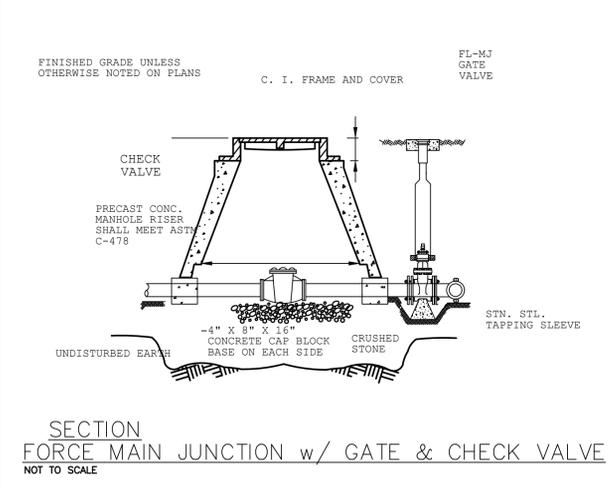
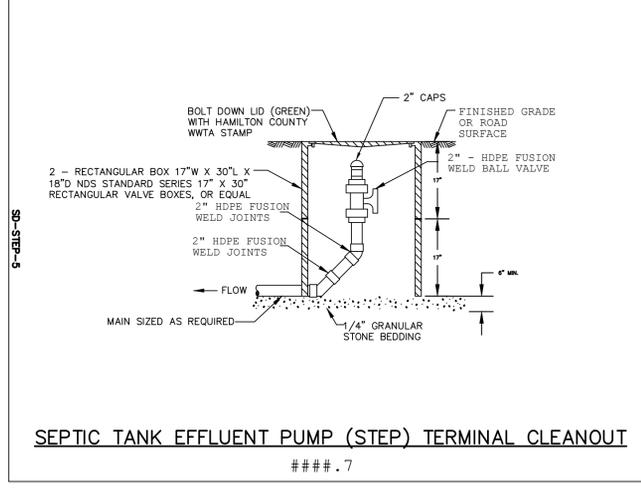
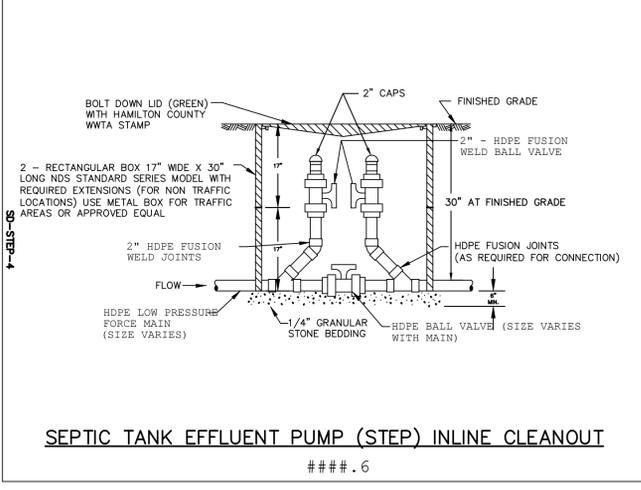
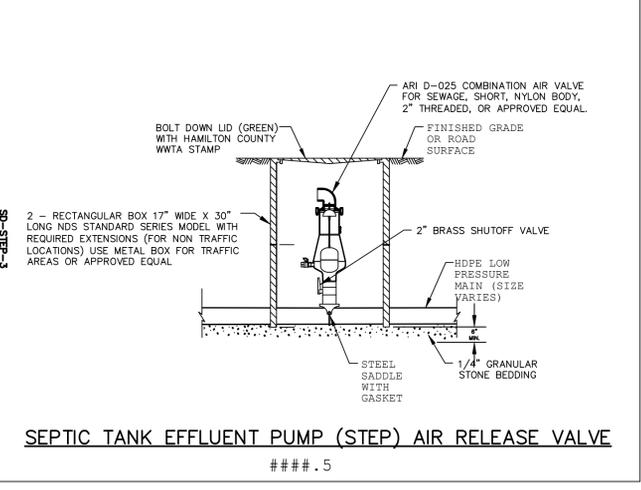
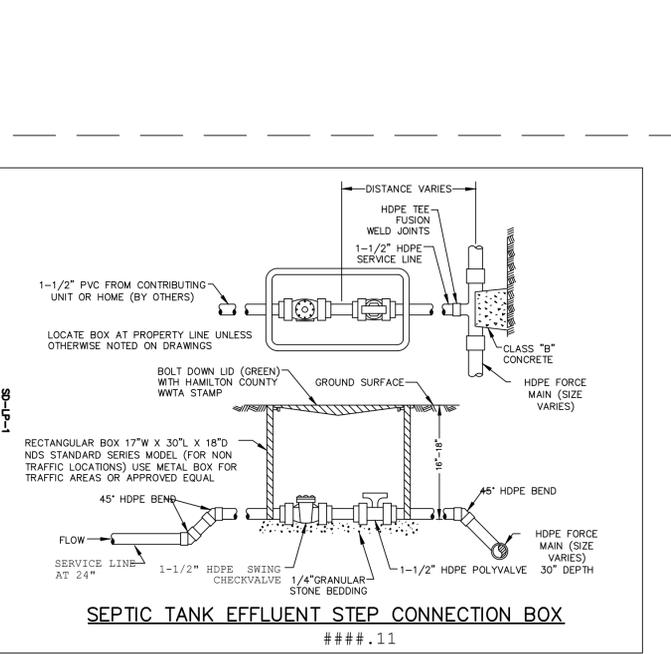
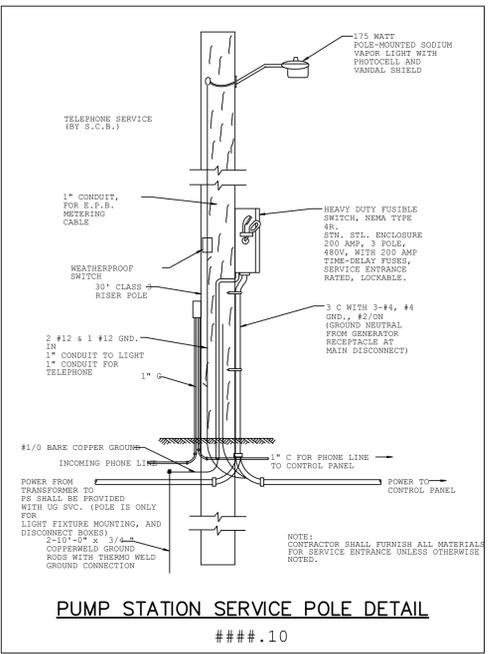
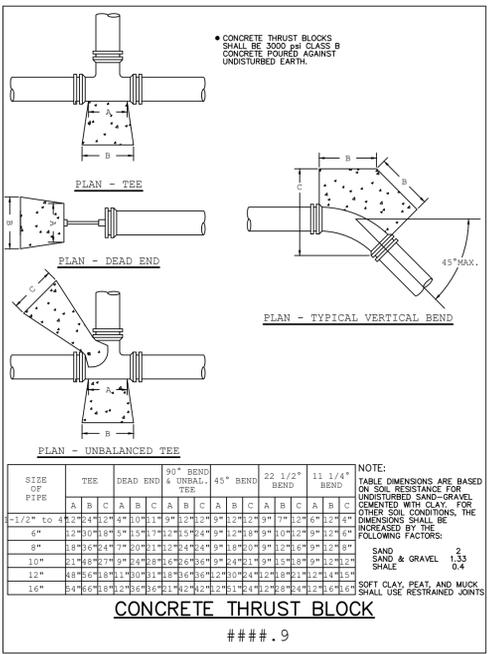
CHECKED BY  
**AWO2**

PROJECT NUMBER  
**####**

SHEET TITLE  
**####**

SHEET NUM.	REV.
####	####





SHEET SET GROUP: ###

ENGINEER  
THIS IS A LONG  
ENGINEER NAME2  
SOMEWHERE IN  
TN2

CLIENT  
CLIENT NAME MR  
SMITH2  
THIS IS A LONG  
ADDRESS IN  
KNOXVILLE2

PROJECT  
###

THIS IS A LONG  
LOCATION PLACE  
IN TENNESSEE

DATE CREATED  
12/13/24

DATE PRINTED  
12/17/24

DATE REVISION  
###

SCALE  
NTS

DESIGNED BY  
AWO2

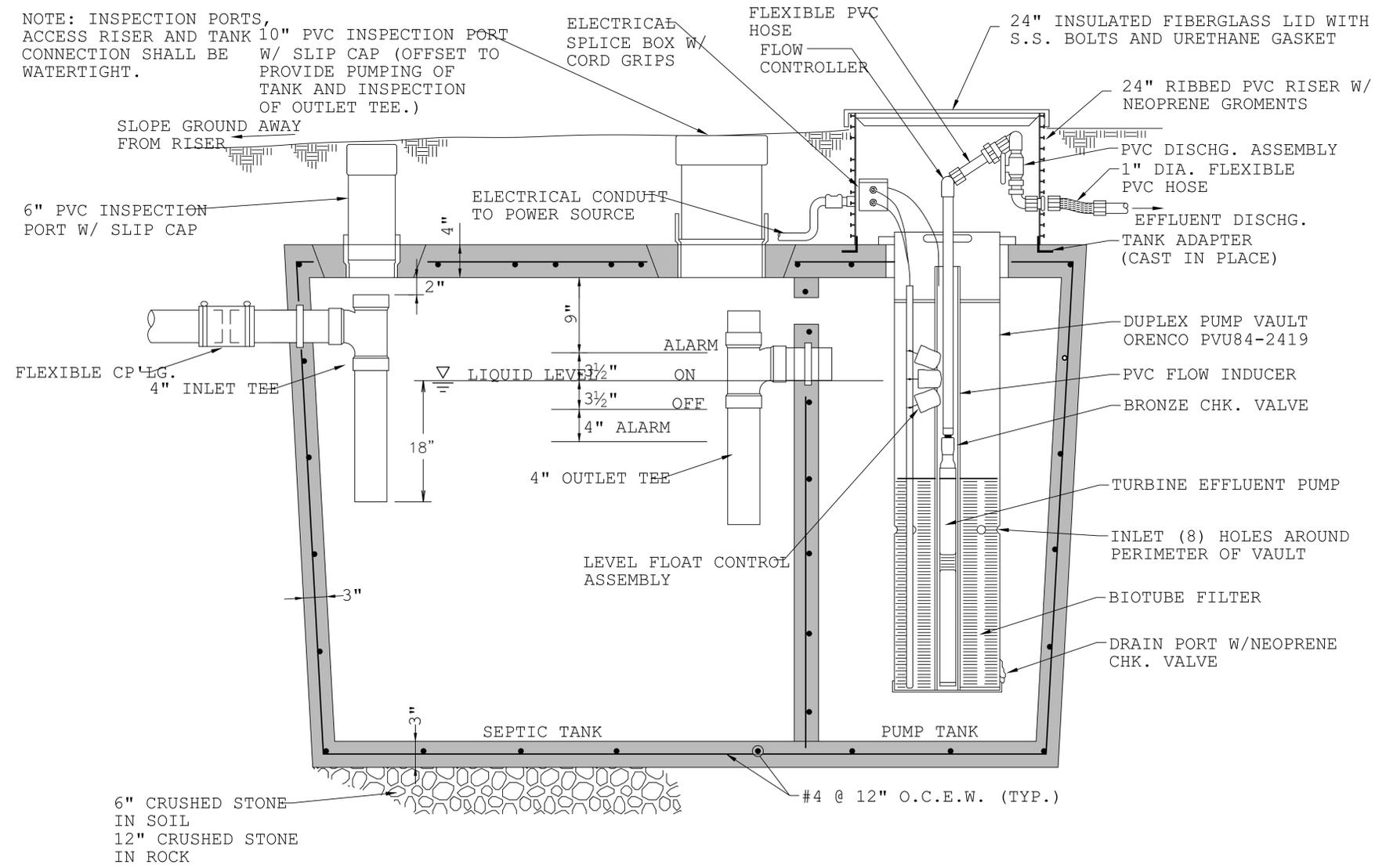
DRAWN BY  
CD2

CHECKED BY  
AWO2

PROJECT NUMBER  
###

SHEET TITLE  
COLLECTION  
SYSTEM DETAILS

SHEET NUM. REV.  
### ##



## SEPTIC TANK EFFLUENT PUMP (STEP) INSTALLATION DETAIL

Septic tank sizing per home			
Flow/bedroom	100 GPD		
Min volume	3 x daily flow		
Bedrooms	Daily flow	Min. tank volume	Selected tank
Num	GPD	GAL	GAL
2	200	600	1,000
3	300	900	1,000
4	400	1,200	1,500
5	500	1,500	1,500
6	600	1,800	2,000
7	700	2,100	2,100
8	800	2,400	2,500
9	900	2,700	3,000
10	1,000	3,000	3,000

\* add 300 GAL for each additional bedroom



SHEET SET GROUP: ####

ENGINEER  
 THIS IS A LONG  
 ENGINEER NAME2  
 SOMEWHERE IN  
 TN2

CLIENT  
 CLIENT NAME MR  
 SMITH2  
 THIS IS A LONG  
 ADDRESS IN  
 KNOXVILLE2

PROJECT  
 ####

THIS IS A LONG  
 LOCATION PLACE  
 IN TENNESSEE

DATE CREATED  
 12/13/24

DATE PRINTED  
 12/17/24

DATE REVISION  
 ####

SCALE  
 NTS

DESIGNED BY  
 AWO2

DRAWN BY  
 CD2

CHECKED BY  
 AWO2

PROJECT NUMBER  
 ####

SHEET TITLE  
 COLLECTION TANK  
 DETAILS

SHEET NUM. REV.  
 #### ##

7/15/24, 2:31 PM Worldwide Steel Building - 3D Designer

**Building Specs**  
 Width: 12'  
 Length: 12'  
 Height: 10'  
 Roof Type: Gabled  
 Roof Pitch: 4":12"  
 Frame Type: Open Web Tapered

**Colors**  
 Roof Color: Taupe  
 Wall Color: Light Stone  
 Trim Color: Taupe  
 Soffit Color: Gray

**Interior**  
 F Wall: Enclosed  
 B Wall: Enclosed  
 L Wall: Enclosed  
 R Wall: Enclosed

**Roof Options**  
 F Gable Entry: 2'

**Half Trusses**  
 Walk Door Solid Qty: 1

**Windows & Doors**  
 Item Sizes:  
 Walk Door Solid: w36' x h76'

Quality • Durability • Experience • Design • Strength • Versatility • Service • Value

worldwidesteelbuildings.com • (800) 825-0316  
 10606 State Route YY Peculiar, MO 64078

https://www.worldwidesteelbuildings.com/3d-building-designer/ 1/1

7/15/24, 2:31 PM Worldwide Steel Building - 3D Designer

**Building Specs**  
 Width: 12'  
 Length: 12'  
 Height: 10'  
 Roof Type: Gabled  
 Roof Pitch: 4":12"  
 Frame Type: Open Web Tapered

**Colors**  
 Roof Color: Taupe  
 Wall Color: Light Stone  
 Trim Color: Taupe  
 Soffit Color: Gray

**Interior**  
 F Wall: Enclosed  
 B Wall: Enclosed  
 L Wall: Enclosed  
 R Wall: Enclosed

**Roof Options**  
 F Gable Entry: 2'

**Half Trusses**  
 Walk Door Solid Qty: 1

**Windows & Doors**  
 Item Sizes:  
 Walk Door Solid: w36' x h76'

Quality • Durability • Experience • Design • Strength • Versatility • Service • Value

worldwidesteelbuildings.com • (800) 825-0316  
 10606 State Route YY Peculiar, MO 64078

https://www.worldwidesteelbuildings.com/3d-building-designer/ 1/1

7/15/24, 2:33 PM Worldwide Steel Building - 3D Designer

**Building Specs**  
 Width: 12'  
 Length: 12'  
 Height: 10'  
 Roof Type: Gabled  
 Roof Pitch: 4":12"  
 Frame Type: Open Web Tapered

**Colors**  
 Roof Color: Taupe  
 Wall Color: Light Stone

**Interior**  
 F Wall: Enclosed  
 B Wall: Enclosed  
 L Wall: Enclosed  
 R Wall: Enclosed

**Roof Options**  
 F Gable Entry: 2'

**Half Trusses**  
 Walk Door Solid Qty: 1

**Windows & Doors**  
 Item Sizes:  
 Walk Door Solid: w36' x h76'  
 Slider Window: w3' x h3'

Quality • Durability • Experience • Design • Strength • Versatility • Service • Value

worldwidesteelbuildings.com • (800) 825-0316  
 10606 State Route YY Peculiar, MO 64078

https://www.worldwidesteelbuildings.com/3d-building-designer/ 1/1

SHEET SET GROUP: **WWTP**

ENGINEER  
**CODY MCELROY PE**

DSH & ASSOCIATES  
 10519 LEXINGTON DR,  
 KNOXVILLE, TN

CLIENT  
**JEFF HARRIS**

PROJECT  
**ROSS WAY**

TOWER ROAD, SEVIER  
 COUNTY, TN

DATE CREATED  
**2024-12-13**

DATE PRINTED  
**2024-12-17**

DATE REVISION  
 ---

SCALE  
**#####**

DESIGNED BY  
**DH**

DRAWN BY  
**CD**

CHECKED BY  
**CM**

PROJECT NUMBER  
**247**

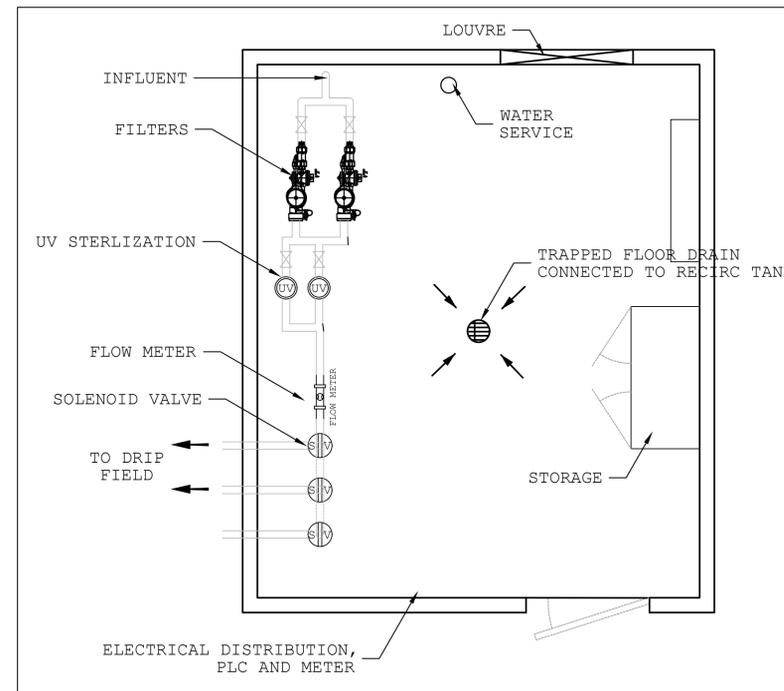
SHEET TITLE  
**PLANT ROOM  
 DETAILS**

SHEET NUM. REV.  
**8.0** ---

TYPICAL 10'x12' STEEL ENCLOSURE FOR PLANT EQUIPMENT

LIST OF PLANT EQUIPMENT:

- SOLENOID VALVE(S)
- ARKAL AUTOMATIC FILTER(S)
- LUTZ JESSCO UV SANITIZATION
- FLOW METER(S)
- PLC
- ELECTRICAL DISTRIBUTION BOARD AND METER



TYPICAL LAYOUT 12'x12' TREATMENT BUILDING

# **DR 4 – STATE OPERATOR CERTIFICATE**

STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
WATER AND WASTEWATER OPERATOR CERTIFICATION BOARD

I.D. NO.

**2289**

EXPIRATION DATE

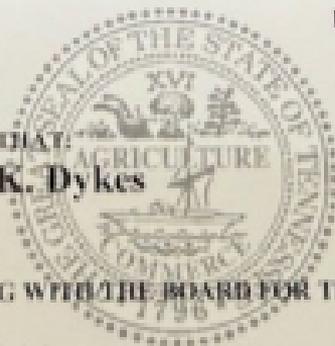
**12/31/2025**

THIS IS TO CERTIFY THAT

**Darian K. Dykes**

IS IN GOOD STANDING WITH THE BOARD FOR THE CLASSIFICATIONS  
LISTED:

**WW4, CS2**



# **LIMESTONE NOVs**



STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER RESOURCES  
Davy Crockett Tower  
500 James Robertson Parkway, 9<sup>th</sup> Floor  
Nashville, Tennessee 37243

Apr 15, 2025  
Mr. Brad Thibault  
Limestone Utility Candlewood Lakes  
389 Candlewood Drive  
Saulsbury, TN 38067  
P. O. Box 158  
Wartrace, Tennessee 37138

Subject: **DIRECTOR'S ORDER NO. DWS24-0053  
LIMESTONE UTILITY – CANDLEWOOD LAKES  
HARDEMAN COUNTY, TENNESSEE  
DEMAND LETTER**

*Sent via email to: [bthibault@cswrgroup.com](mailto:bthibault@cswrgroup.com) & [krista@cswrgroup.com](mailto:krista@cswrgroup.com)*

Dear Mr. Thibault,

The Settlement Agreement and Order DWS24-0053 for Limestone Utility - Candlewood Lakes was signed on February 5, 2025. The Settlement Agreement and Order specified that the upfront penalty of \$4,534 was to be paid 31 days after signature. The Settlement Agreement and Order also stipulated that proof of hiring an engineer must be submitted 30 days after signature, and the design plans from the engineer were to be submitted 60 days after signature. These two requirements each carries a penalty of \$1,000.00. The sum if \$6,534 is now due upon receipt of this letter. Please be advised that 90 days after signature of the Settlement Agreement and Order Limestone Utility is required to submit proof of hiring a drilling company licensed in the State of Tennessee to avoid the penalty of \$4,000.00. I am enclosing a copy of the Settlement Agreement and Order for your convenience.

Payment should be submitted to the following address, including Order DWS24-0053 on the check.

Treasurer, State of Tennessee  
Division of Fiscal Services, Consolidated Fees  
TN Department of Environment and Conservation  
Davy Crockett Tower  
500 James Robertson Parkway, 6<sup>th</sup> Floor  
Nashville, Tennessee 37243

Apr 15, 2025

Mr. Brad Thibault

Letter

Page 2

If you or your attorney has questions concerning this correspondence, please contact Tom Moss at (615) 917-4135 or you may contact Jessica Murphy at (615) 390-0675.

Sincerely,

A handwritten signature in cursive script that reads "Jessica Murphy".

Jessica Murphy, Manager  
Compliance and Enforcement Unit

EJM: TAM

cc: DWR – EFO-M

DWR – Enforcement File

OGC (via email)





**LIMESTONE WATER**

Utility Operating Company

A CSWR Managed Utility

July 24, 2025

Jessica Murphy, Manager  
Enforcement and Compliance Unit  
Division of Water Resources  
Davy Crockett Tower  
500 James Robertson Pkwy, 9<sup>th</sup> Floor  
Nashville, Tennessee 37243

**RE: Cartwright Creek - Hideaway WWTP  
SOP No. SOP-07090  
Thompson Station, Williamson Co., TN  
Case number – WPC23-0125**

Dear Ms. Murphy,

This letter is submitted in response to your July 10<sup>th</sup>, 2025 Order and Demand letter regarding Hideaway WWTP located in Williamson County. The goal of this letter is to request an extension for the corrective action requiring an Engineering Report submittal.

TDEC verbiage of corrective action:

1. *“The Respondent shall submit an Engineering Report (ER), to the Division, for its approval, within forty-five days after receipt of this Order. The report shall include plans to operate 10 or modify the facility to treat the current flow rate effectively, as well as how the facility will change or upgrade to handle additional flow should the remaining connections be established for the original design flow. In the ER a solids handling process shall be established for the current flow and if the flow were to increase. The solids handling equipment must be maintained per the approved designs submitted to the Division and all solids shall be disposed of in accordance with 40 CFR § 503 et seq. A project schedule with milestone completion dates for any intended upgrades or operational modifications shall be provided.”*

Limestone UOC request:

1. Due to the requirements, Limestone UOC must contract the requested requirement for an engineering report to a firm that has a licensed P.E. The engineering firm has stated that they would need a 90-day extension to conduct a site visit and research data to be able to perform the duties mandated. This would extend the due date to October 22<sup>nd</sup> 2025. Also given the extensive backdate of the violations, it will require a larger investigation to ensure diligence and accuracy.



**LIMESTONE WATER**

**Utility Operating Company**

A CSWR Managed Utility

We appreciate your consideration of this extension request and Limestone Water UOC remain committed to resolving these compliance matters responsibly and promptly. Please do not hesitate to contact me via email at [JJJOHNSON@CSWRGROUP.COM](mailto:JJJOHNSON@CSWRGROUP.COM) should you require additional documentation or clarification.

Sincerely,

*Joe Johnson*

Joe Johnson

CSWR – EHS Compliance Coordinator