

October 30, 2025

VIA ELECTRONIC FILING

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Room on October 30, 2025 at 3:26p.m.

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Consumer Advocate Division
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Karen.Stachowski@ag.tn.gov

RE: *Application of Limestone Water Utility Operating Company, LLC, to Expand its Certificate of Convenience and Necessity to Serve the Sugar Loaf Road Subdivision, TPUC Docket No. 25-00053*

Dear Ms. Stachowski:

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. The employees in these positions are not named as required by the rule. Please file a complete organizational chart replacing Exhibit 5 with a complete chart of employee names with each title in the Docket.

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

2. ***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

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TDEC permit. In addition, provide a legible map of the area with the proposed service territory clearly and accurately plotted. There is internal consistency regarding the Sugar Loaf Subdivision. The Petition (p. 58 and Appendix A) states it is 58.40 acres with 18 residential lots. In the Direct Testimony of Todd Thomas (Exhibit 9 – page 12), he describes Sugar Loaf as being 20.47 acres with 10 lots. Please confirm which is correct, the Petition or Mr. Thomas’ Testimony.

Response: Limestone has confirmed that the Application is correct. The Sugar Loaf Road Subdivision development is 58.40 acres with 18 lots. Mr. Thomas’s will make this clarification or correction during this testimony at the hearing before the Commission.

- 3. Rule 1220-04-13-.17(2)(a)7(i).** The rule asks for a map to show the location of the wastewater system, i.e., treatment plant, pre-application treatment facilities, collection infrastructure, building(s) for equipment, drip fields, disposal fields and/or wetland cells. Include the physical address of the wastewater system and the associated latitude and longitude coordinates. Exhibit 1 lacks any clearly identified detail required by the rule. For example, there are no clearly marked areas for the plant, drip fields, buildings for equipment, and no physical address. Please file a correct map in the Docket.

Response: Please see Attachment “DR 2 – Sugar Loaf Road Map.”

- 4. Rule 1220-04-13-.17(2)(a)7(ii).** The rule asks for a map to show names of surrounding streets. Exhibit 1 does not have the names of the surrounding streets and roads. Please file a corrected map in the Docket.

Response: Please see Attachment “DR 2 – Sugar Loaf Road Map.”

- 5. 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 does not show the access roads (if available) and the other utilities necessary to provide service. Please file a corrected map in the Docket.

Response: Please see Attachment “DR 2 – Sugar Loaf Road Map.”

- 6. 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 does not include a map of the

residences and habitable structures. Please file a map that shows the details of this requirement in the docket.

Response: Please see Attachment “DR 2 – Sugar Loaf Road Map.”

7. **Rule 1220-04-13-.17(2)(a)8.** The rule asks for a description of the type of proposed wastewater system to be constructed including the design capacity and the maximum potential number of customers the utility will service in the proposed service area. Indicate the technology used for the system (e.g., membrane, sand filter, wetland cell and/or lagoon). The type of system and design capacity should match the type and design capacity of the associated TDEC permit and permit application. There are internal inconsistencies in the Company’s Petition and supporting documentation. The Petition (p. 58 and Appendix A) states that the development is 58.40 acres with 18 residential lots. In the Direct Testimony of Todd Thomas (Exhibit 9 – page 12), he describes Sugar Loaf development as being 20.47 acres with 10 lots. Please confirm which is correct, the Petition or Mr. Thomas’ Testimony.

Response: Limestone has confirmed that the Application is correct. The Sugar Loaf Road Subdivision development is 58.40 acres with 18 lots. Mr. Thomas’s will make this clarification or correction during his testimony at the hearing before the Commission.

8. **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. Exhibit 21 SOP names the developer as Chris Mouhourtis; Petition at 2 & 11 and Testimony at 5:8, 12:14, 13:6 and 15:1 name Mr. Mouhourtis, but in Testimony at 12:10 the developer is identified as Mr. Howell. Please file confirmation of the developer in the Docket.

Response: Limestone has confirmed the developer of the system is Chris Mouhourtis. Mr. Thomas will make this clarification or correction during the hearing before the Commission.

Rule 1220-04-13-.17(2)(b) Property Rights-Public Need

1. **Rule 1220-04-13-.17(2)(b)3.** The rule asks for all contracts or agreements between the builder(s) of the treatment and/or collection system, the utility, and the property and/or subdivision developer that show entitlement or ownership to the land, system specifications, costs for the wastewater system, timeline for the system to be built, and rights to the system once it is completed. Documents presented by the applicant

should be signed by all parties and bear marks or stamps, such as those provided by notaries or public officials, as necessary. Testimony states that Mr. Mouhourtis will construct the system, but the contractor's license (Exhibit 20) is for DSH. Please confirm if Mr. Mouhourtis is contracted with DSH. Also file the contract between the Developer and DSH.

Response: Limestone has confirmed that Mr. Mouhourtis is contracted with DSH. Please see **Attachment "DR 3 – Sugar Loaf DSH Contract."**

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. Please confirm that 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.

2. **Rule 1220-04-13-.17(2)(c)4.** Proof that the party contracted to install the proposed system has a valid and current contractor's license by the applicable licensing board of the State of Tennessee. If the builder has contracted with DSH to construct the system (see Rule 1220-04-13-.17(2)(b)3 above), then this requirement has been satisfied. If the contractor is not DSH, please identify the contractor and provide its Tennessee license.

Response: Limestone has confirmed with the developer of the system that the contractor of the system is DSH Associates.

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 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. A draft permit has been issued and is attached as "CA MFR Review Exhibit 1 – draft SOP" and the engineer report is attached as "CA MFR Review Exhibit 2 – Engineer Report." The Consumer Advocate could not locate any engineering and/or design reports submitted to TDEC. Please provide copies of these required documents.

Response: Please see Attachment “DR 4 – Sugar Loaf Road 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 19. 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 3 – Dana Jackson.” Please confirm that Dana Jackson is the certified operator, and who employs him. If Mr. Jackson 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 5 – 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 4 – 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
 - 2025.04.17 – Limestone Corrective Action Plan (CAP) – deadline of 6/1/2025 for final design plans to be submitted
 - 2025.04.21 – TDEC Letter confirming receipt of CAP
 - 2025.08.01 – TDEC NOV (failure to follow CAP – no final design plans submitted).
- Grassland Wastewater System (Cartwright Creek).
 - 2023.02.13 - WPC22-0086 – TDEC Consent Order (still active)
 - 2025.07.16 – Notice of Incomplete Permit Application

- 2025.07.23 – Limestone email to TDEC about Permit application with attachment (permit).
- 2025.07.25 – Notice of Violation – Release of Sewage.
- 2025.07.29 – Limestone Response to NOV
- Note: Multiple Citizen Complaints – screen shots of complaints filed with TDEC provided in collective exhibit
- 2025.07.25 – Email about Grasslands SSO & Photos
- 2025.07.29 – Limestone Response to NOV
- 2025.08.13 – July 2025 Monthly Operation Report (MOR) – non-compliance with permit limits for CBOD5 (daily \leq 10mg/L) and Ammonia N (daily \leq 4mg/L).
- 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)8.*** The rule asks for a tariff showing products, services, terms, conditions and proposed rates to be charged for wastewater service. A tariff should include all pass-through fees, including but not limited to, customer deposits, disconnect or reconnect fees, late fees, tap fees, escrow fees, bond fees, franchise fees

and taxes. Confirm this is Phase I rates from TPUC Docket No. 24.00044. Also, please confirm that these rates could change after Phase II of TPUC Docket No. 24-00044.

Response: Please see **Attachment “DR 6 – Limestone Current Tariff.”** Please also see Limestone’s September 26, 2025, Responses to the Commission’s Data Request.

2. **Rule 1220-04-13-.17(2)(e)9.** The rule asks for 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. Appendix A states “Not Applicable” for this rule. Please explain why this is not applicable and provide the required information. Also, provide any spreadsheet in the native excel format.

Response: This development is going to be completed in one phase, therefore there will not be additional customers added following completion of this phase. Please see Exhibit 12 to the Application.

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. The Company states that since the development is in one phase, this requirement is not applicable. Please confirm that the local government does not require a bond for the proposed wastewater system.

Response: Limestone has confirmed with the developer that the City of Sevierville does require a bond and has been acquired by the developer and provided to the City of Sevierville. Limestone is in the process of obtaining a copy of this bond and will submit it to the Commission as soon as it becomes available.

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 the Petition’s Appendix, the Company states this rule is not applicable but also states that it has funding from CSWR to complete construction, if necessary. This response does not appear to comply with the intent of the rule which is to ensure that the Company and its ratepayers are left with the funding to complete a system. Please provide

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a copy of a performance bond from the developer. Please explain how this rule is not applicable to Limestone.

Response: Please see **Attachment “DR 7 – Performance Bond – Sugar Loaf Road.”**

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

Very truly yours,

BUTLER SNOW LLP

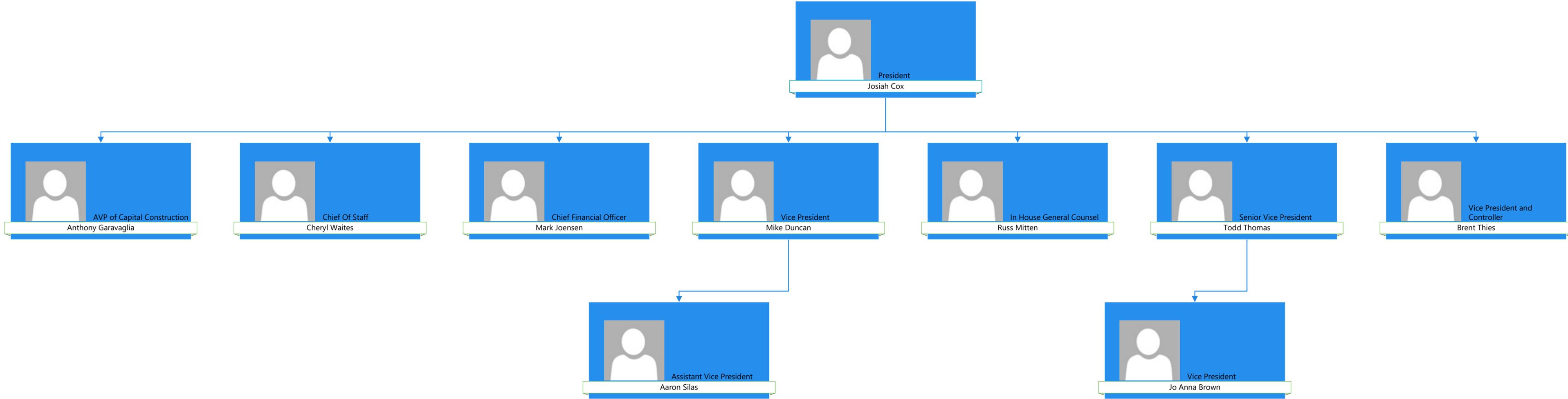


Melvin J. Malone

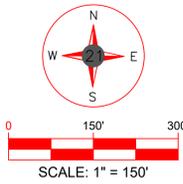
Attachments

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

DR 1 – LIMESTONE ORG CHART

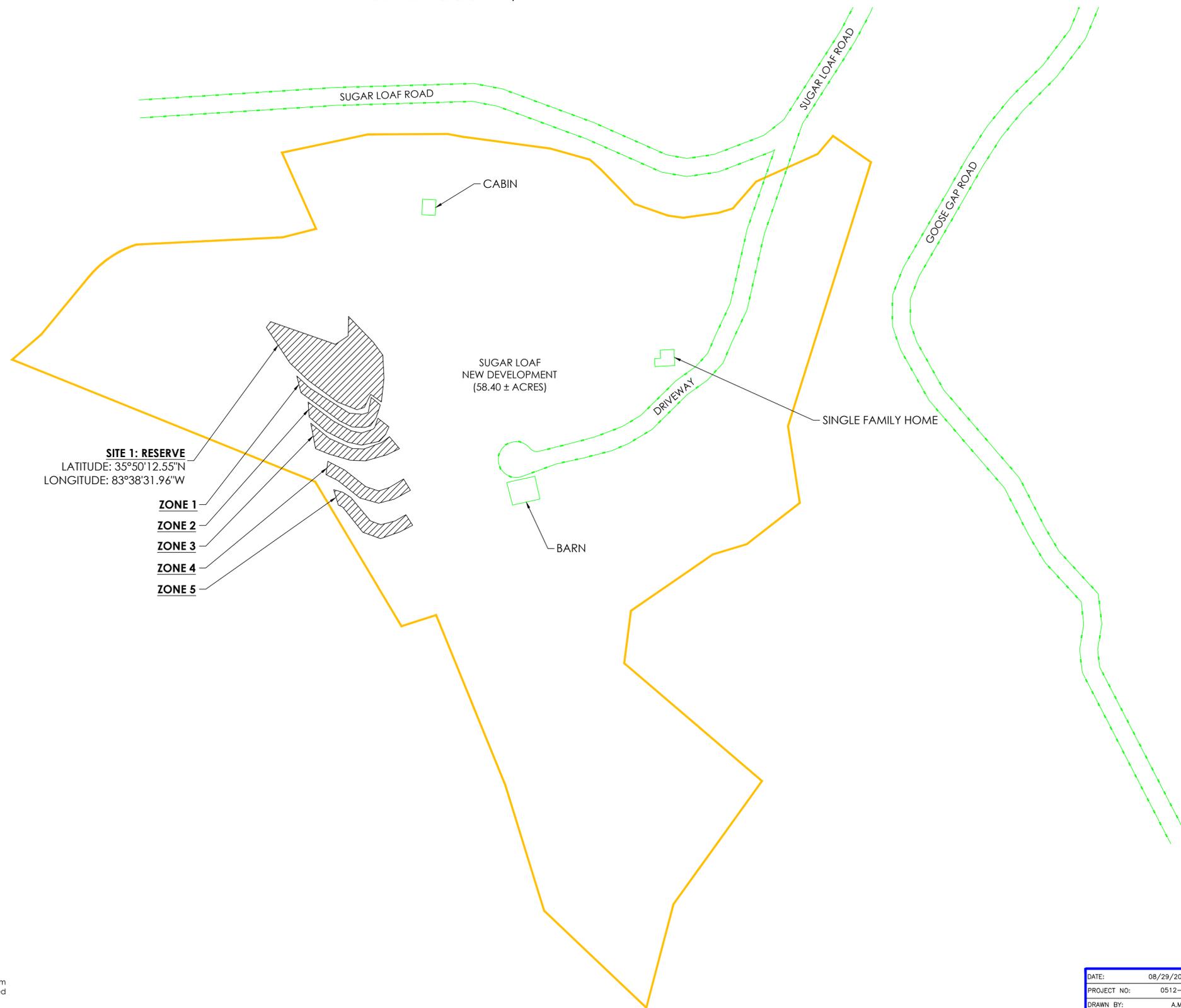


DR 2 – SUGAR LOAF ROAD MAP



*ALL PLATS HAVE BEEN ACCOUNTED FOR

PROPOSED SERVICE AREA MAP SUGARLOAF (WASTEWATER) SEVIER COUNTY, TN



MAP LEGEND

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:	08/29/2025
PROJECT NO:	0512-25
DRAWN BY:	A.M.D.
SCALE:	1"=150'
SHEET NAME:	SERVICE AREA MAP



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Washington, MO 63090
mail@21designgroup.net
P: 636-432-5029

DR 3 – SUGAR LOAF DSH CONTRACT

1415 Sugar Loaf Road Development

Waste Water System Construction Support

CONSTRUCTION CONTRACT

THIS CONTRACT is made and entered into as of the October 20, 2025 by and between DSH & Associates, LLC, (hereinafter referred to as Contractor), and Chris Mouhourtis (hereinafter referred to as OWNER).

WITNESSETH:

Contractor hereby agrees to provide certain services in connection with construction or improvement of Owner' property in accordance with plans and specifications dated 5/1/25 which are attached and incorporated herein by reference (the "Plans and Specifications", Appendix A), and in accordance with any written change orders which OWNER may hereafter make, from time to time. Such construction or improvement (hereinafter referred as the "Project") shall take place in Sevierville, TN and is commonly known as 1415 Sugar Loaf Road Development. The real property to be constructed or improved on the real property are hereinafter jointly referred to as the "Property". In connection with the Project, Contractor agrees to provide the following services:

1. Contractor shall provide all labor and equipment necessary to complete the Project in accordance with the Plans and Specifications including but not limited to execution of written change orders which may result in increases or decreases in the cost for changes in the work. Contractor, as part of the work, will provide all labor and will purchase on behalf of the OWNER material required. Material invoices will be provided directly to OWNER for payment directly to respective suppliers. Contractor will provide all supervision in connection with the project. Contractor shall perform the work set forth herein in a good and workman like manner. Change orders will be submitted to client for approval prior to execution of the change scope of work in the field. Contractor will not proceed with field work until the OWNER's Engineer/Architect approves the SOW specified in Appendix A. All change orders will be approved by OWNER prior to proceeding with the work.
 - a. This contract only includes the installation of the waste water treatment plant and associated drip fields. It does not include installation of the waste water collection system.
2. OWNER agrees to pay all DSH labor/material/equipment costs and DSH Oversight/overhead fee as outlined in the table of costs in Appendix B and highlighted in YELLOW. All line items will be paid on a per unit basis with the exception of the flat fee of **\$75,527** required for the Oversight/Overhead. This amount includes \$5,000 for commissioning the system prior to

handing over to the Utility. The total units will be determined by OWNER/DSH after installation thru as-built survey and material quantities purchased. OWNER agrees to pay for all material required to complete the job. This includes but is not limited to all plumbing, electrical, gravel, etc as outlined in the plans. In addition, OWNER will provide excavation crews/equipment required to install all tanks, pods, and treatment building. DSH will direct OWNER's crews on installation details. If DSH purchases any material/equipment for the project, DSH will submit vendor invoices for payment to OWNER to pay direct.

3. Scope of work are outlined in YELLOW in Appendix A. Costs associated with scope of work are included in Appendix B.
4. The construction estimate for the entire system is approximately **\$540,704** and includes all costs, taxes, and overhead associated with the project according to the Plans and Specifications attached (Cost Estimate attached as Appendix B). However, OWNER has already paid for some of the equipment required for the project. There are still some material purchases that will be required including gravel, piping, electrical, and mechanical components.
5. DSH will submit invoices on a monthly basis for work that has been complete. OWNER agrees to pay monthly invoices based on work completed to-date and according to the agreed to unit rates outlined in Appendix B.
6. OWNER agrees not to schedule other work at the building site unless Contractor's consent is obtained. Contractor agrees not to withhold consent unreasonably. OWNER agrees to indemnify Contractor for any claims for bodily injury or property damage caused by workmen performing other work under OWNER's direction and Contractor shall indemnify and hold OWNER harmless for any claims for bodily injury or property damage caused by Contractor, its employees, agents, Contractor and / or invitees.
7. Contractor agrees that OWNER's or OWNER's representatives may inspect the construction work at reasonable times and it fully understood and agreed that Contractor shall have control over the performance and sequencing of the work. Title and all risks of loss of materials, supplies, appliances, equipment, and other items shall pass to OWNER when the project is complete, with the exception of Contractor's tools and equipment, and the tools and equipment owned by any Contractor which are used in the Project. If defects are identified by OWNER or their representatives, the Contractor will be given a minimum of 30 days to fix the defect or else be considered in breach of contract.
8. The estimated construction period is 4 months. Anticipated start date is November 15, 2025. Contractor will mobilize to site within 2 weeks from client notice to proceed. Contractor agrees to complete, within a reasonable time, all work in a good and workmanlike manner and in accordance with plans, subject to delays caused by abnormal weather conditions, lack of or unavailability of materials or labor, causality losses or other cause not within Contractor's reasonable control.
9. The Contractor shall obtain all workers' compensation (if required by the State), commercial general liability insurance and comprehensive liability insurance necessary to protect Contractor from claims for damages due to bodily injury, including death, and for damages to

property that may arise out of and during operations under this Contract. The OWNER shall purchase its own liability insurance including fire and casualty insurance to the full insurable value of the project. Each party shall issue a certificate of insurance to the other prior to the commencement of construction. It is understood and agreed that Contractor shall indemnify and hold OWNER harmless from any and all injury occurring on the property, including but not limited to any claim by a third party or Contractor's potential personal injury claim.

10. This Contract may not be amended or modified except by written agreement signed by Contractor and OWNER. This Contract supersedes and replaces all prior written and oral agreements of the parties and contains the entire agreement of the parties. All prior oral agreements and written agreements per e-mail confirmation are incorporated herein in good standing. In the event of any action or dispute between OWNER and Contractor arising out of this contract, the losing party shall pay the prevailing party a reasonable sum for attorneys fees incurred by such prevailing party.
11. A one year warranty will be provide at the completion of the project for all work completed. The warrantee will include on products and materials supplied by DSH. The SOS supplied equipment warrantee is not included. All work will be executed according to local, state, and federal laws.
12. Prior to proceeding with any task or subtask outlined in the attached scope of work, the Contractor shall ensure that all plans and specifications associated with that task or sub-task have been approved by either the County Engineer, TDEC, or an Engineer identified by the OWNER. In addition, any review by agencies that require a change in scope of work will be treated as a change order to the contract. These change orders will be approved by OWNER and Contractor prior to proceeding.
13. This Contract shall be construed and interpreted under the laws of the State of Tennessee.
14. Contractor shall be responsible for all reasonable measures necessary to protect any property and improvements adjacent to the property/project. Any damage to adjacent properties and improvements, if caused by Contractor or its subcontractors, shall be promptly repaired by Contractor at its expense and cost.
15. Contractor acknowledges that it has visited and examined the property and has examined the physical conditions relative to the work and is able to perform such work in accordance to the contract.
16. Contractor represents and warrants that it is qualified and able to perform the work required by the contractor as set forth in this contract.

Appendix B
Cost Estimate
4/24/24

Sugar Loaf Road Project

Waste water treatment system

Cost Estimate: This is a COST PLUS Contract Pricing

TOTAL: \$ 540,705

10/20/25

Assumptions

The waste water treatment system consists of the following elements:

Each house has own collection tank and disconnect

Waste water treatment plant - 18 homes/100 bedrooms only

Does not included STEP tank installation at each home - Builders Responsibility

Contract will be a unit rate contract - client only pays for # of units installed at unit rate listed.

No cost for force main from homes to WWTP area is included

No extension of water lines are included to treatment plant

No overhead power costs are included. Overhead power must be provided by Owner

ITEM	UNIT	QUANTIT	RATE	TOTAL \$	Contract Type
EQUIPMENT					
WWTP Equipment					
AX100 Orenco Treatment Pods	pod	3	\$	99,876.00	Cost Plus
Recirculation and Dosing Tanks	tanks	1	\$	63,404.00	Cost Plus
Fan	Fan	1	\$	-	Cost Plus
UV System	Unit	1	\$	18,957.00	Cost Plus
PLC Control Panel	Unit	1	\$	-	Cost Plus
Drip Field Equipment	Unit	1	\$	20,300.00	Cost Plus
Equipment Taxes	Unit	1	\$	19,241.02	Cost Plus
SUB-TOTAL				\$ 221,778.02	
SUBCONTRACT LABOR & Materials					
Force Main System around roads	LF	0	\$ 25	\$ -	Cost Plus
Disconnect boxes at each house	Unit	0	\$ 600	\$ -	Cost Plus
Materials to each home	Unit	0	1000	\$ -	Cost Plus
Borings under roads and driveways	Unit	0	\$ 2,500	\$ -	Cost Plus
Bush hog drip field area	drip field	1	\$ 12,000	\$ 12,000	Cost Plus
Supply FM	LF	1200	\$ 12	\$ 14,400	Cost Plus
Return FM	LF	1000	\$ 12	\$ 12,000	Cost Plus
Supply Headers	LF	250	\$ 20	\$ 5,000	Cost Plus
Return Headers	LF	250	\$ 20	\$ 5,000	Cost Plus
Gravel	Num	1	\$ 15,000	\$ 15,000	Cost Plus
Treatment Blding	Num	1	\$ 20,000	\$ 20,000	Cost Plus
DRIP FIELD - material	LF	20000	\$ 1	\$ 20,000	Cost Plus
Drip Field installation (no materials)	LF	20000	\$ 3	\$ 65,000	Cost Plus
WWTP excavation, grade, backfill	NUM	1	\$ 20,000	\$ 20,000	Cost Plus
Extend electrical to new WWTP	NUM	1	\$ 5,000	\$ 5,000	Cost Plus
WWTP Eletrical	Unit	1	\$ 25,000	\$ 25,000	Cost Plus
WWTP Plumbing	Unit	1	\$ 25,000	\$ 25,000	Cost Plus
WWTP commissioning	NUM	1	\$ 5,000	\$ 5,000	Cost Plus
SUB-TOTAL				\$ 248,400	
SUB - TOTAL				\$ 470,178	
DSH OVERSIGHT/OVERHEAD				\$ 70,527	
Surveying/Engineering Support				\$ -	
TOTAL				\$ 540,705	

Appendix C

Contractor's Rate Table & Invoicing Process

Payment/Invoicing Process

2.0 INVOICES

Each invoice shall specify the type of payment requested: progress payment or final payment. Progress payment invoices shall cover a period not to exceed 30 calendar days and shall be supported by documents as may be reasonably required by OWNER. For each invoice requesting progress payments, the Contractor shall estimate the percentage of work completed and the rationale used to determine work completed.

All invoices shall include: Contractor's invoice shall also reference the Purchase Order and any Change Order numbers, shall include an itemized statement of charges and copies of receipts for properly reimbursable expenses and shall state any prompt payment discounts. All Invoices Shall Reference: OWNER Job Number, Subcontract Number, and OWNER Project Manager. Contractor shall pay all applicable sales or use taxes and shall state on each invoice that all such taxes have been paid to the appropriate taxing jurisdiction Contractor shall place invoice for payment on the OWNER web page - under the invoice files.

3.0 PAYMENT

OWNER shall pay Contractor within 7 days of receipt of the invoice. Every attempt will be made by OWNER to pay the Contractor ASAP after receipt of invoice - therefore beating the 7 days. OWNER shall electronically transfer funds to the Contractor designated bank account. OWNER shall notify Contractor within 2 days after receipt of invoice from Contractor of any deficiencies identified by OWNER in the invoice or supporting documentation which may prohibit approval. Payments made to the Contractor by OWNER on such invoices shall relieve OWNER of all further obligations for work covered by such payments. Contractor agrees that OWNER shall have the right to set-off against any amounts which may become payable by OWNER to Contractor under this Subcontract any amounts which Contractor may owe to OWNER, whether arising under this Contractor or others. The acceptance by Contractor of final payment under this subcontract shall operate as a full release of OWNER from any and all claims of Contractor and its agents for all Work performed.

DR 4 – SUGAR LOAF ROAD PLANS

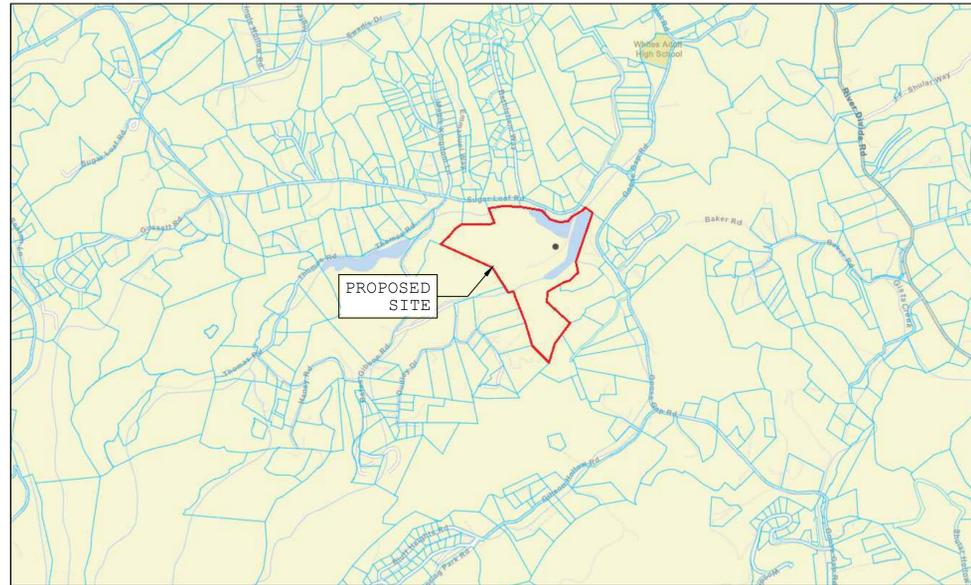
1415 SUGAR LOAF RD

WASTEWATER TREATMENT SYSTEM DESIGN

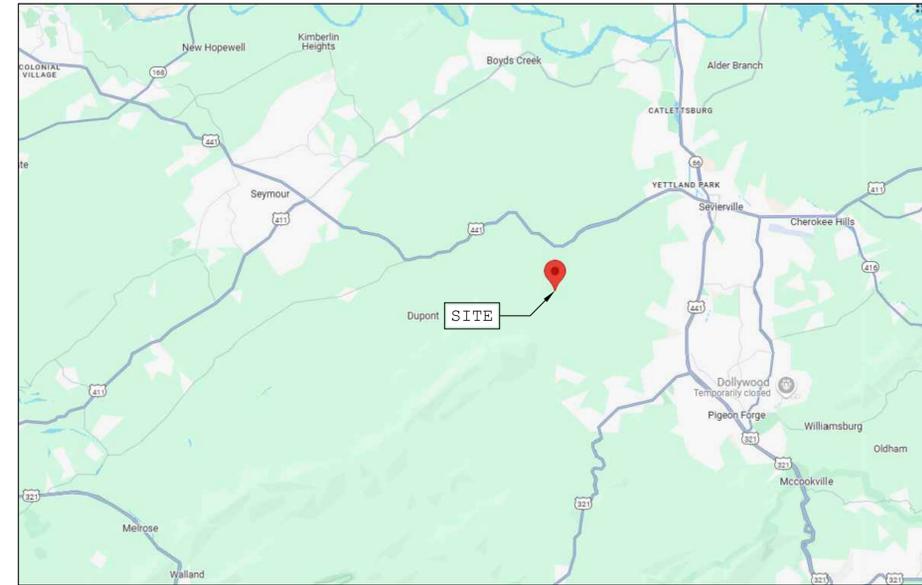
FOR CHRIS MOUHOURTIS

PROJECT LOCATION

1415 SUGAR LOAF RD, SEVIER COUNTY, TN



PARCEL MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

1415 Sugar Loaf Rd	
Sheet Number	Sheet Title
CV	COVER
1.0	EXISTING CONDITIONS
1.1	SOIL SCIENTIST MAP
1.2	OVERALL SITE PLAN
2.0	PROCESS FLOW DIAGRAM
3.0	SCHEMATIC DIAGRAM
3.1	AX100 POD DETAILS
3.2	AX100 BERM
3.3	AX100 AIR INLET
3.4	UV FILTER DETAIL
3.5	MAIN TANKS DETAILS
3.6	RECIRCULATION BLEND TANK
4.0	WWTP SITE PLAN
5.0	ELECTRICAL ONE LINE DIAGRAM
6.0	DRIPFIELD LAYOUT
6.1	DRIP FIELD SCHEMATIC
6.2	DRIP FIELD DETAILS 1
6.3	DRIP FIELD DETAILS 2
7.0	COLLECTION SYSTEM
7.1	COLLECTION SYSTEM DETAILS
7.2	STEP TANK DETAIL
8.0	PLANT ROOM ENCLOSURE

OWNER/ CONTACT

CHRIS MOUHOURTIS
Cor13.chris@gmail.com

ENGINEER

CODY MCELROY PE
DSH & ASSOCIATES, 10519
LEXINGTON DR, KNOXVILLE, TN



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DR, KNOXVILLE,
TN

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PROJECT
1415 SUGAR LOAF RD

1415 Sugar Loaf Rd, Sevier County, TN

DATE CREATED **2/20/25**

DATE PRINTED **2/27/25**

DATE REVISION ----

SCALE

DESIGNED BY **DH**

DRAWN BY **CD**

CHECKED BY **CM**

PROJECT NUMBER **254**

SHEET TITLE
COVER

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

NOTE
TOPOGRAPHIC SURVEY BY OTHERS

NOTES

SHEET SET GROUP:
WWTP

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CODY MCELROY PE

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ASSOCIATES,
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DR, KNOXVILLE,
TN

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Rd, Sevier
County, TN

DATE CREATED
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DATE PRINTED
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DATE REVISION

SCALE
1" = 100'

DESIGNED BY
DH

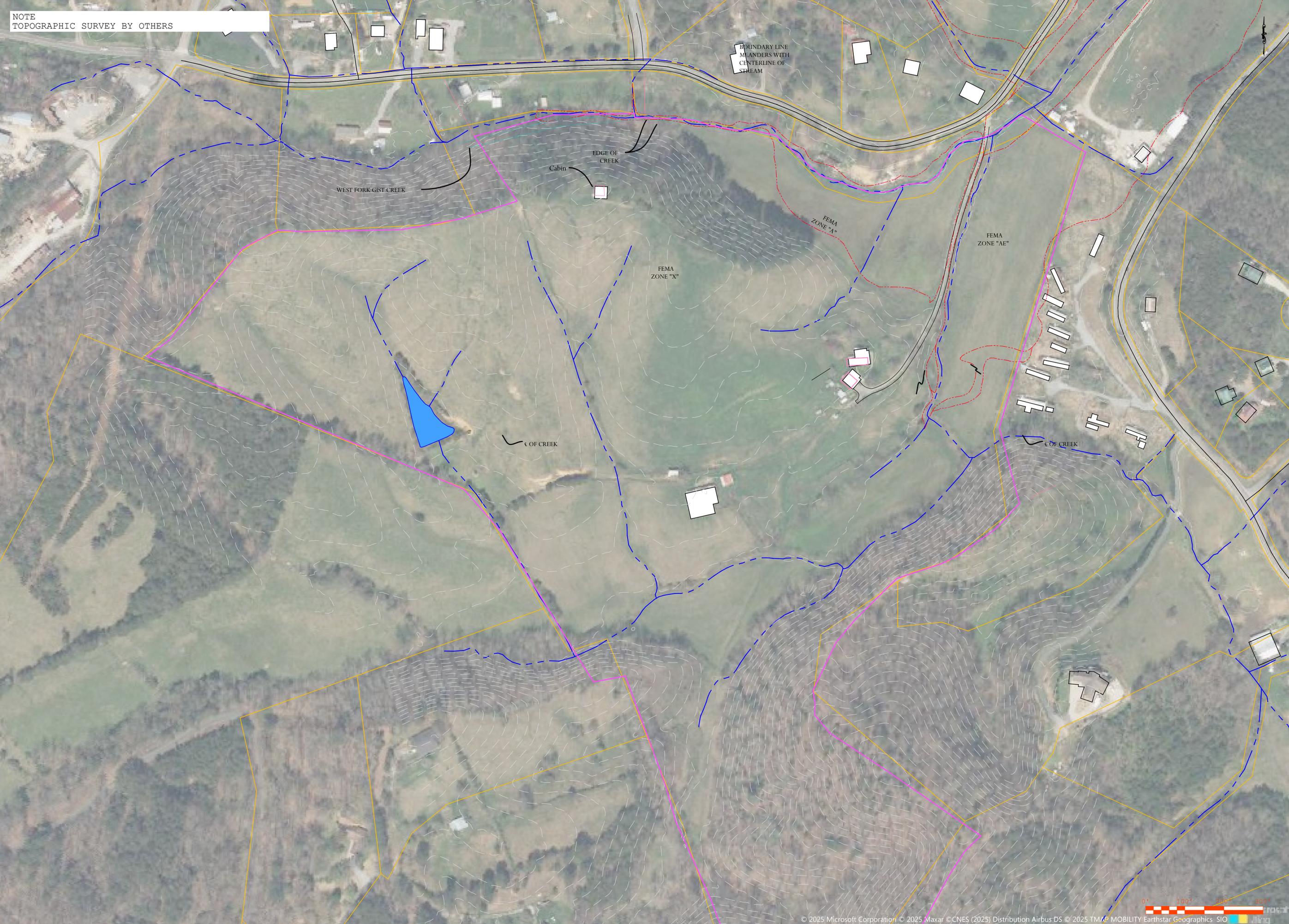
DRAWN BY
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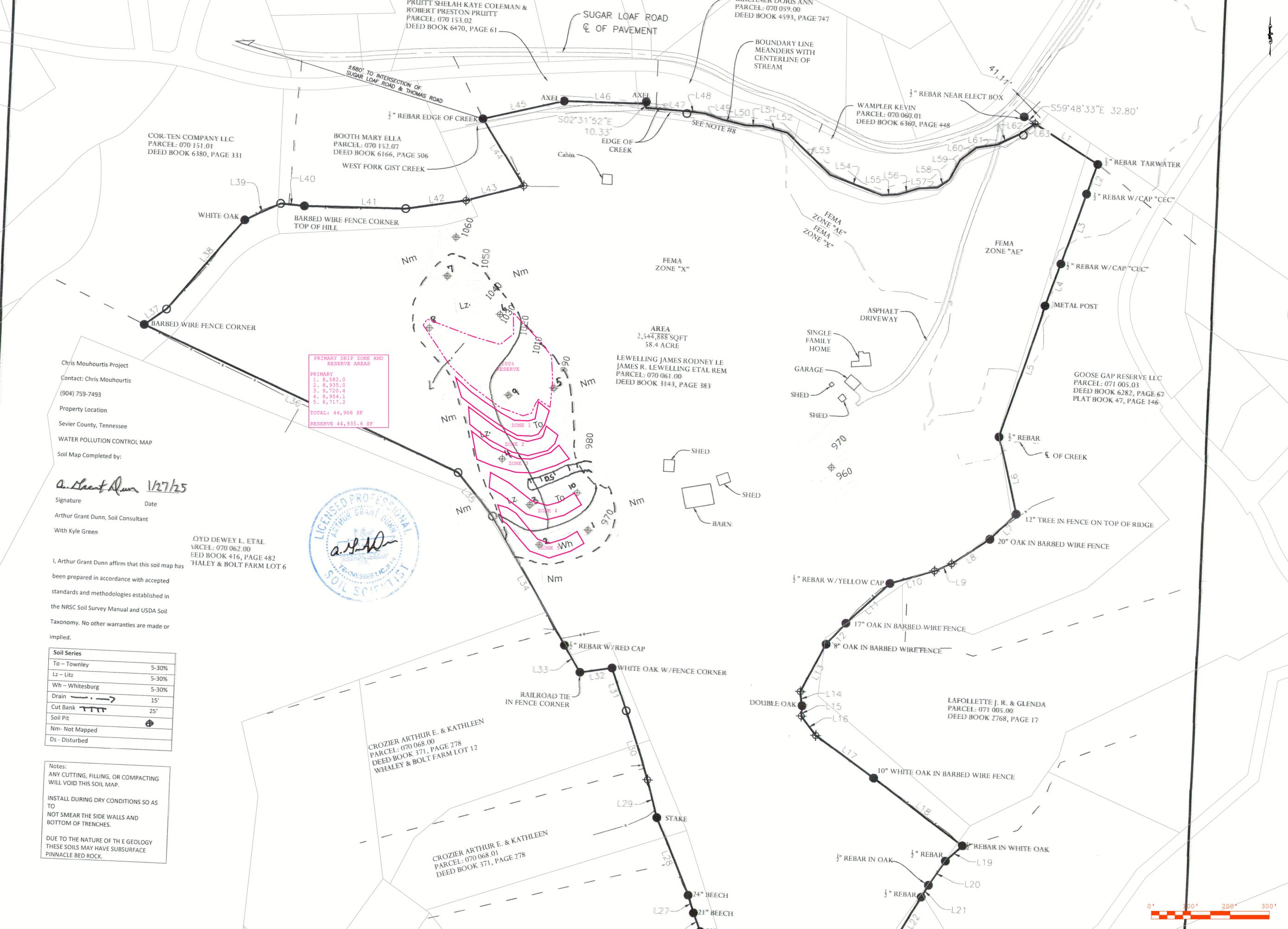
CHECKED BY
CM

PROJECT NUMBER
254

SHEET TITLE
EXISTING
CONDITIONS

SHEET NUM. REV.
1.0 ----





Chris Mouhourtis Project
Contact: Chris Mouhourtis
(904) 759-7493
Property Location
Sevier County, Tennessee
WATER POLLUTION CONTROL MAP
Soil Map Completed by:
Arthur Grant Dunn 1/27/25
Signature Date
Arthur Grant Dunn, Soil Consultant
With Kyle Green



OYD DEWEY L. ETAL
PARCEL: 070 062.00
DEED BOOK 416, PAGE 482
HALEY & BOLT FARM LOT 6

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



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



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SCALE **1" = 100'**

DESIGNED BY **DH**

DRAWN BY **CD**

CHECKED BY **CM**

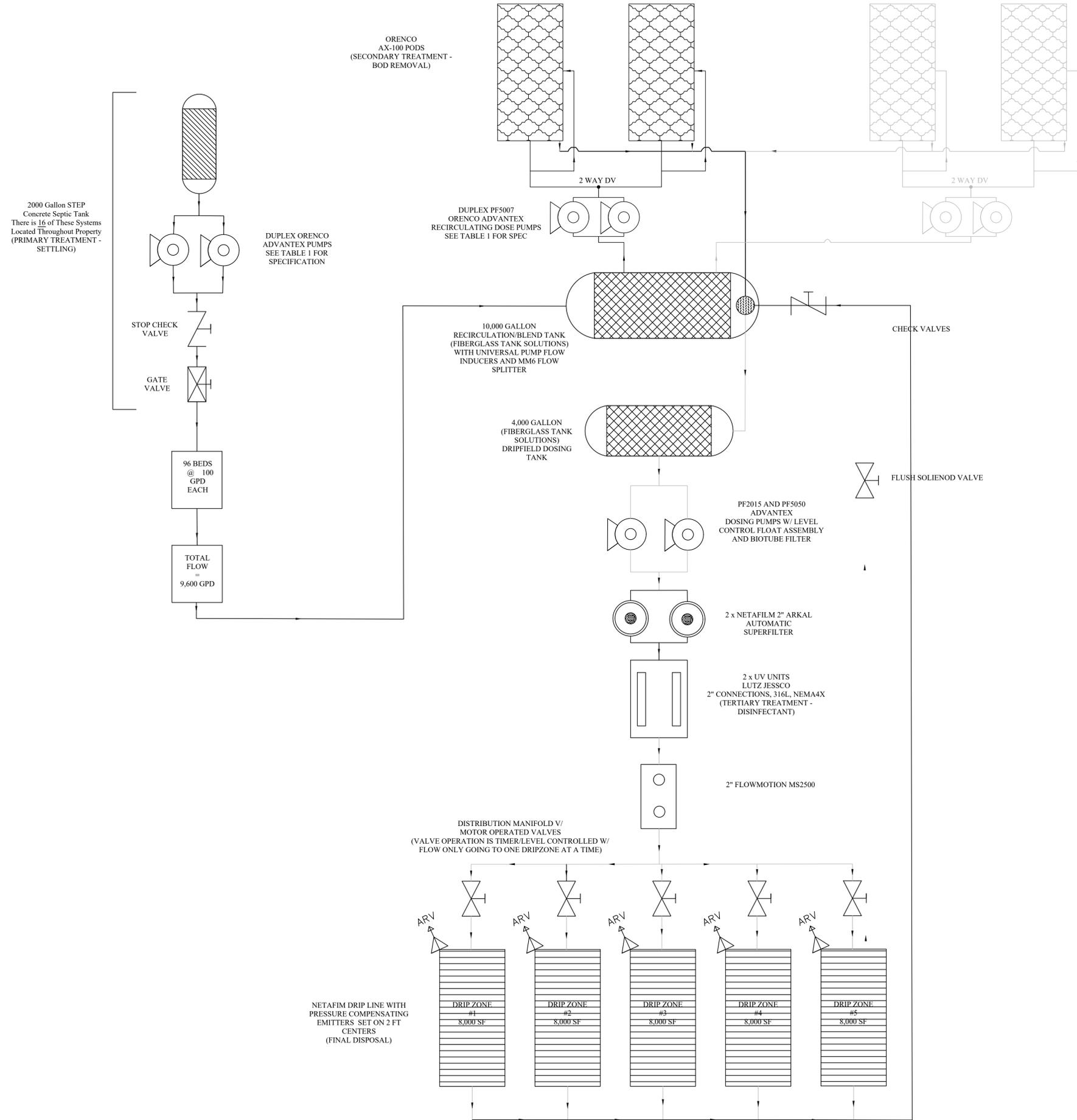
PROJECT NUMBER
254

SHEET TITLE
OVERALL SITE
PLAN

SHEET NUM.	REV.
1.2	---



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



2000 Gallon STEP
Concrete Septic Tank
There is 16 of These Systems
Located Throughout Property
(PRIMARY TREATMENT -
SETTLING)

DUPLEX ORENCO
ADVANTEK PUMPS
SEE TABLE 1 FOR
SPECIFICATION

ORENCO
AX-100 PODS
(SECONDARY TREATMENT -
BOD REMOVAL)

DUPLEX PF5007
ORENCO ADVANTEK
RECIRCULATING DOSE PUMPS
SEE TABLE 1 FOR SPEC

10,000 GALLON
RECIRCULATION/BLEND TANK
(FIBERGLASS TANK SOLUTIONS)
WITH UNIVERSAL PUMP FLOW
INDUCERS AND MM6 FLOW
SPLITTER

4,000 GALLON
(FIBERGLASS TANK
SOLUTIONS)
DRIPFIELD DOSING
TANK

PF2015 AND PF5050
ADVANTEK
DOSING PUMPS W/ LEVEL
CONTROL FLOAT ASSEMBLY
AND BIOTUBE FILTER

2 x NETAFILM 2" ARKAL
AUTOMATIC
SUPERFILTER

2 x UV UNITS
LUTZ JESSCO
2" CONNECTIONS, 316L, NEMA4X
(TERTIARY TREATMENT -
DISINFECTANT)

2" FLOWMOTION MS2500

DISTRIBUTION MANIFOLD V/
MOTOR OPERATED VALVES
(VALVE OPERATION IS TIMER/LEVEL CONTROLLED W/
FLOW ONLY GOING TO ONE DRIPZONE AT A TIME)

NETAFILM DRIP LINE WITH
PRESSURE COMPENSATING
EMITTERS SET ON 2 FT
CENTERS
(FINAL DISPOSAL)

STOP CHECK
VALVE

GATE
VALVE

96 BEDS
@ 100
GPD
EACH

TOTAL
FLOW
=
9,600 GPD

CHECK VALVES

FLUSH SOLIENOD VALVE

DRIP ZONE
#1
8,000 SF

DRIP ZONE
#2
8,000 SF

DRIP ZONE
#3
8,000 SF

DRIP ZONE
#4
8,000 SF

DRIP ZONE
#5
8,000 SF



SHEET SET GROUP:
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LOAF RD

1415 Sugar Loaf
Rd, Sevier
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DATE REVISION

SCALE
NO SCALE

DESIGNED BY
DH

DRAWN BY
CD

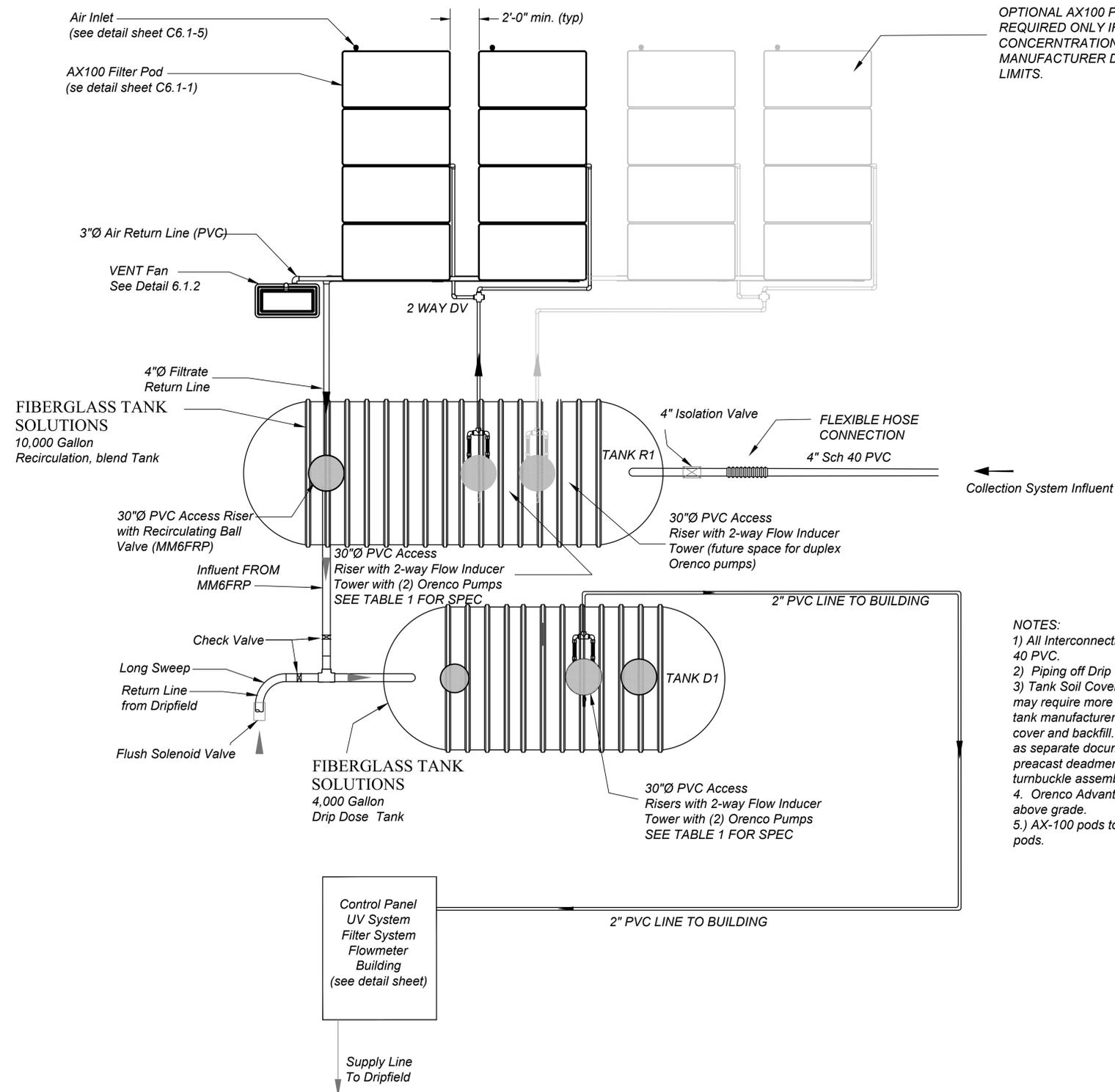
CHECKED BY
CM

PROJECT NUMBER
254

SHEET TITLE
WWTP PROCESS
FLOW DIAGRAM

SHEET NUM. REV.
2.0 ---

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**

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County, TN**

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DATE REVISION **----**

SCALE **NO SCALE**

DESIGNED BY **DH**

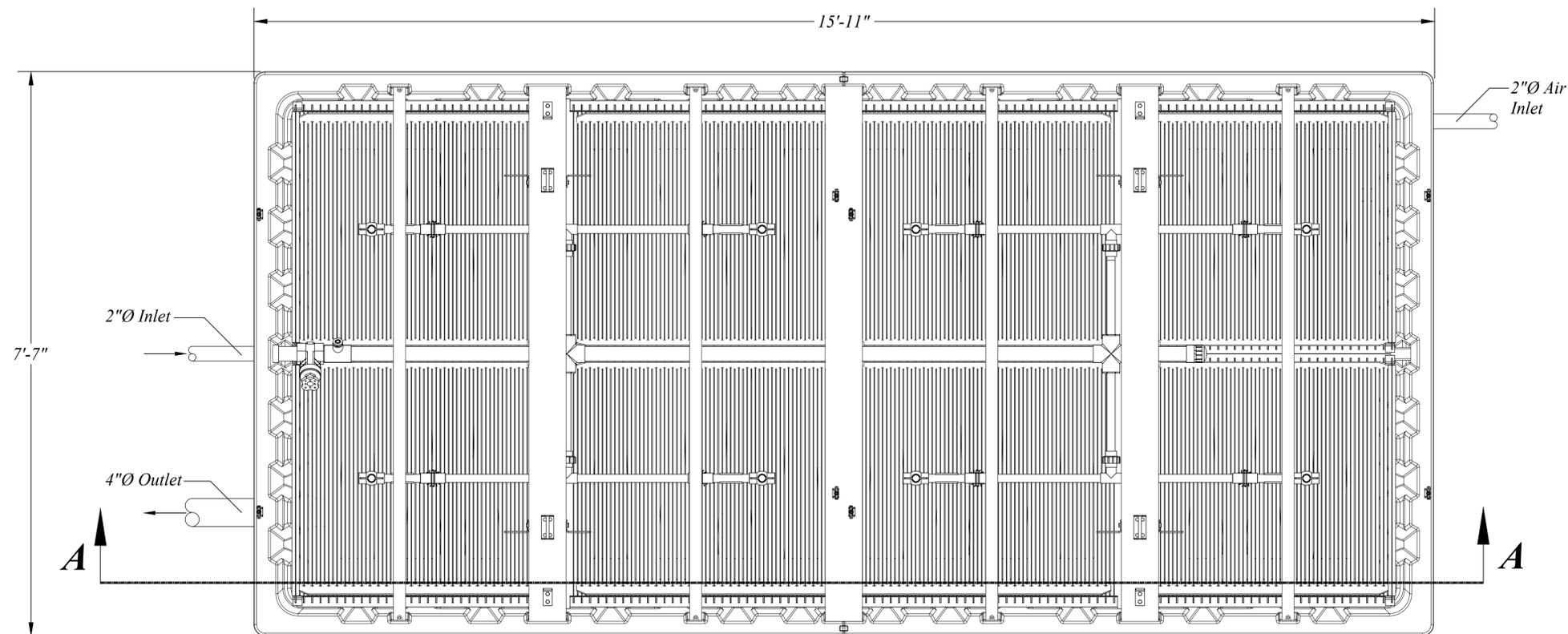
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CHECKED BY **CM**

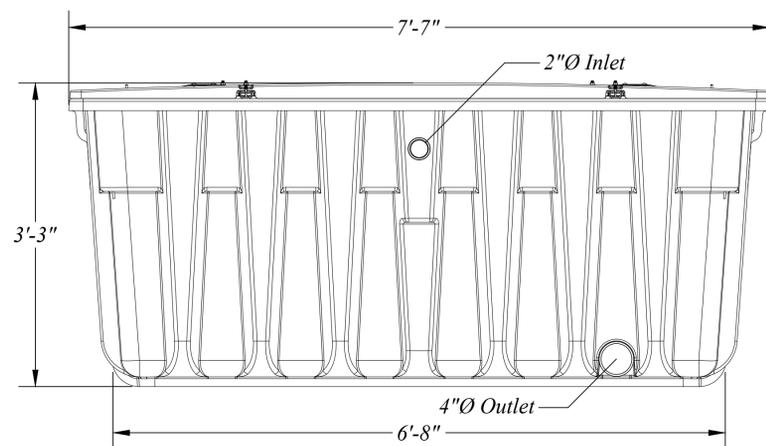
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SHEET TITLE
**WASTE WATER
TREATMENT PLANT
LAYOUT**

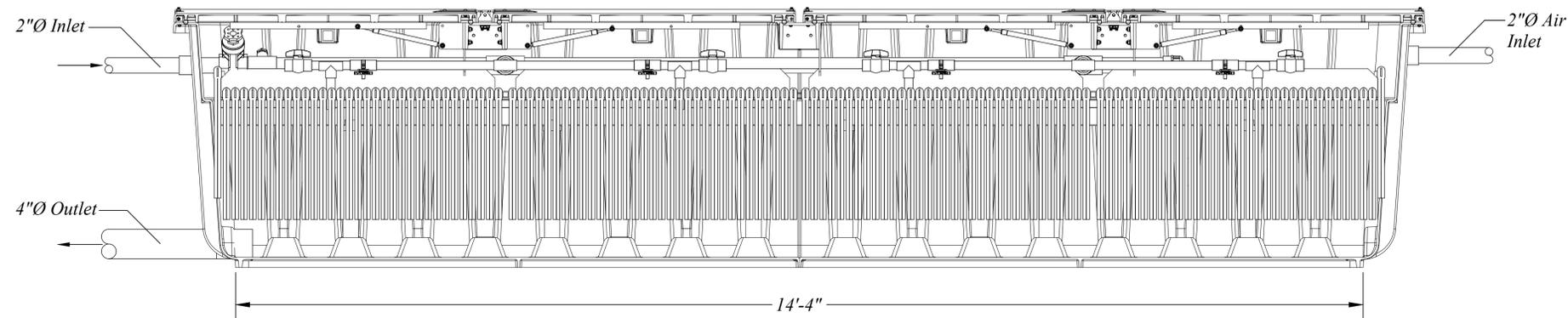
SHEET NUM. **3.0** REV. **----**



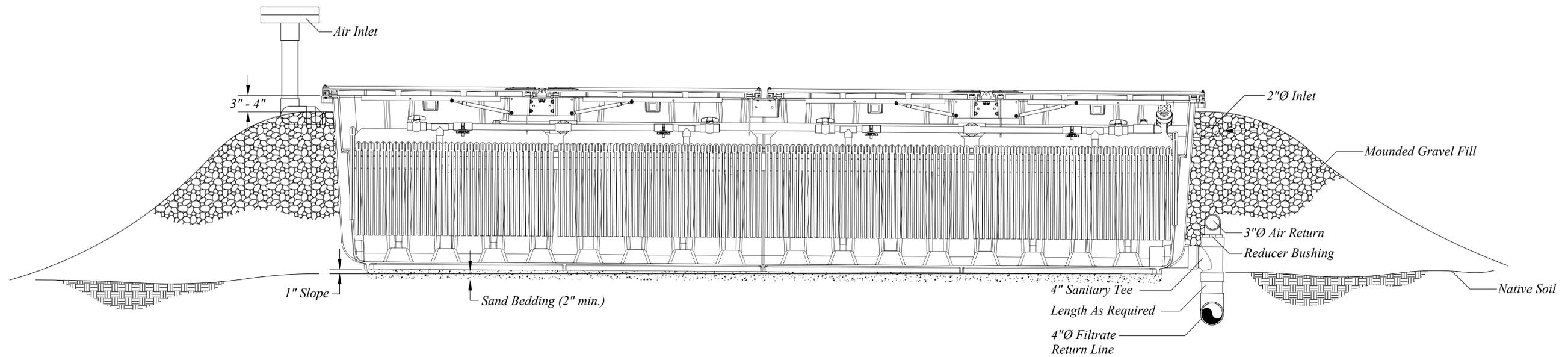
AX100 Plan View
Scale: 1" = 2'-0"



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



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



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



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 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*

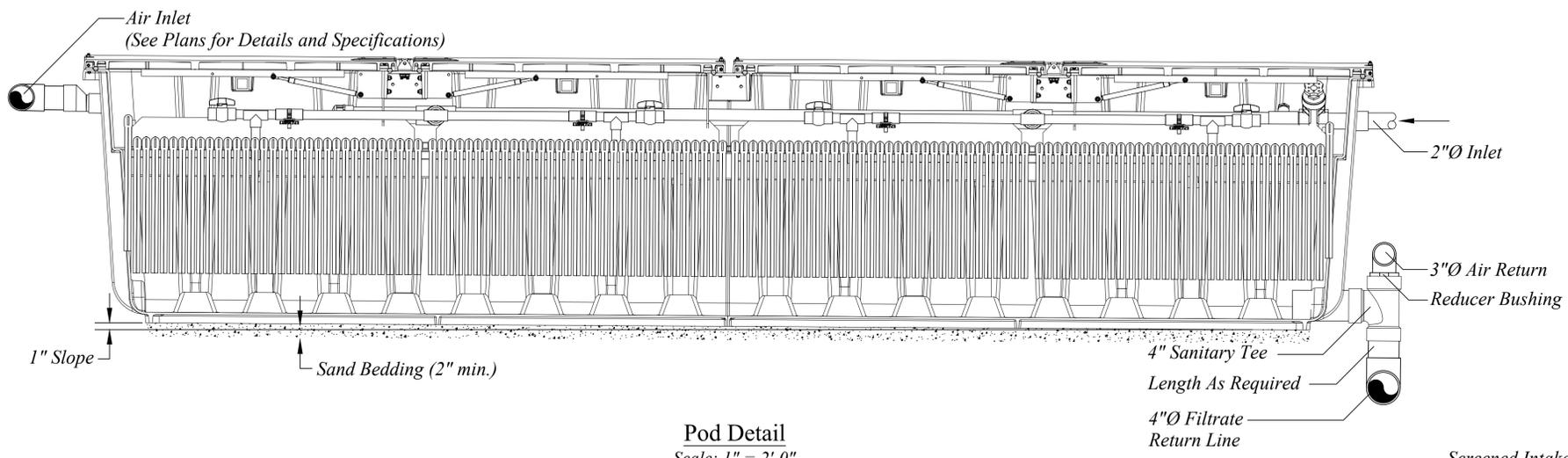
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Scale: *As Shown*

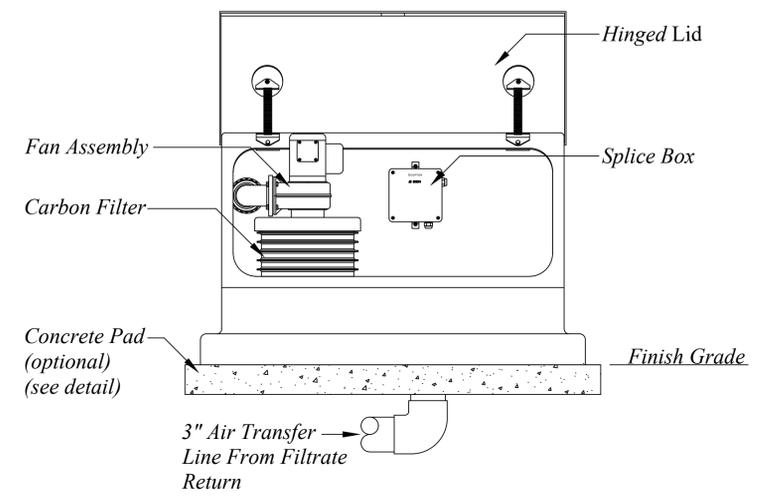
Sheet: *1 OF 1*

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

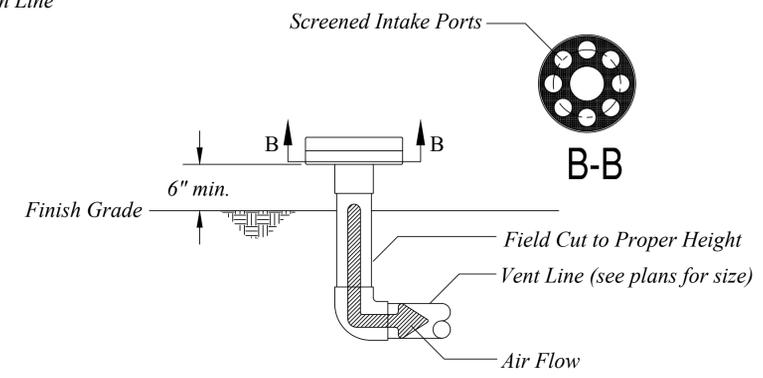
AdvanTex® AX100 System
Ventilation Details



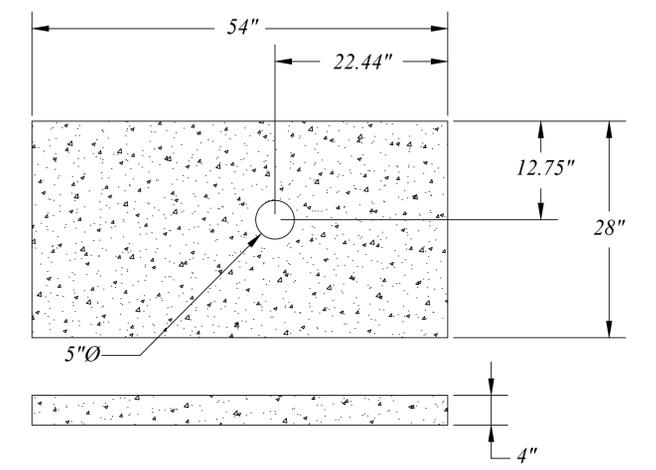
Pod Detail
 Scale: 1" = 2'-0"



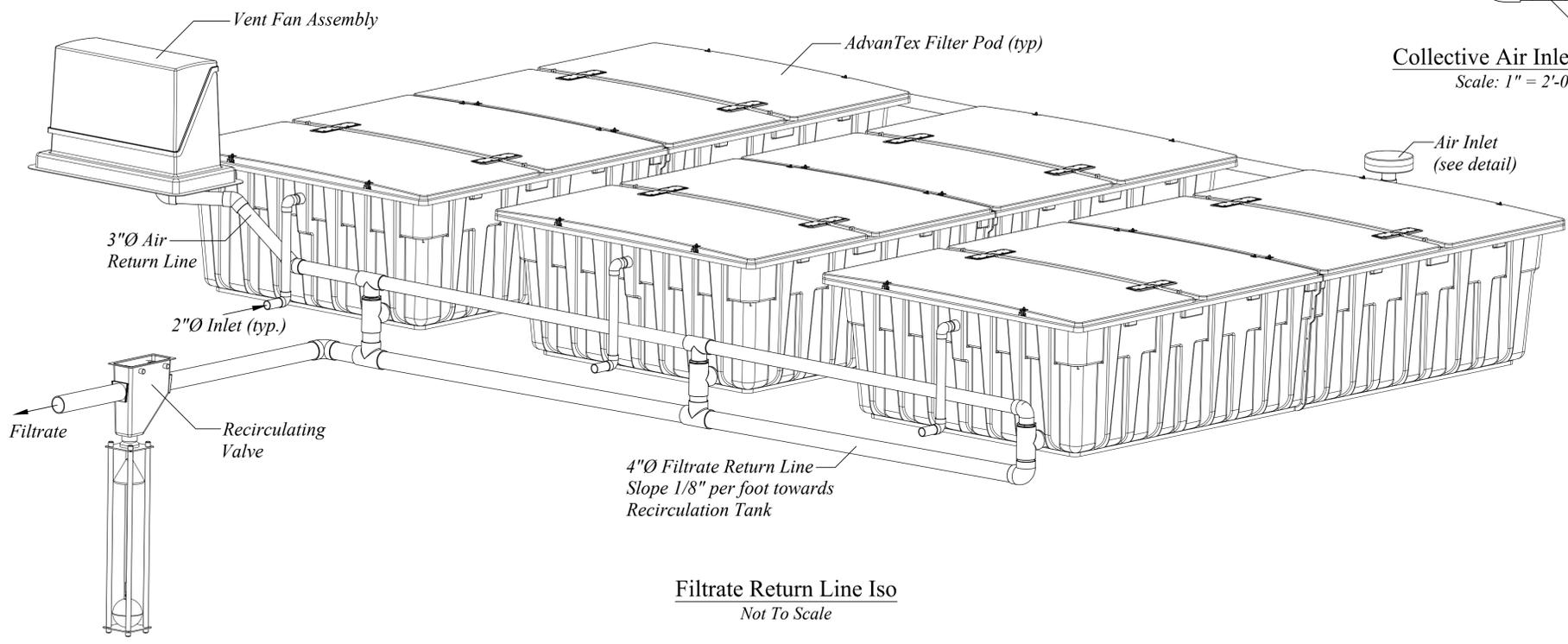
Above Ground Fan Assembly
 Scale: 1" = 2'-0"



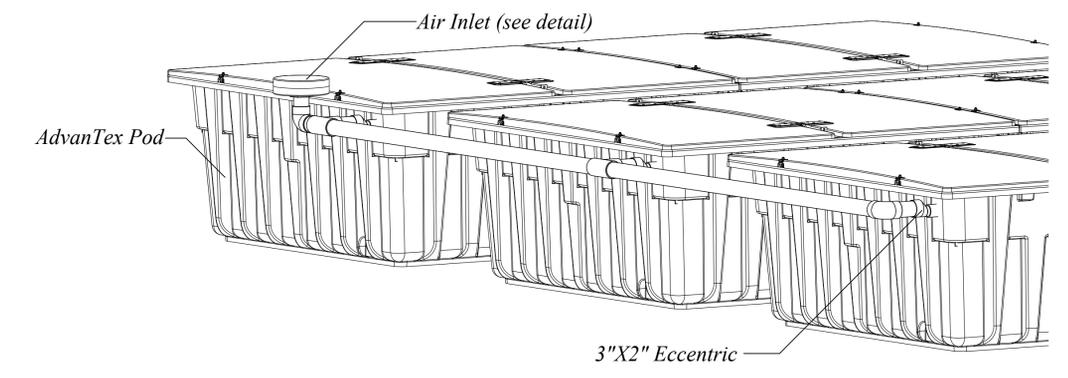
Collective Air Inlet Detail
 Scale: 1" = 2'-0"



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



Filtrate Return Line Iso
 Not To Scale



Collective Air Inlet Option
 Not To Scale

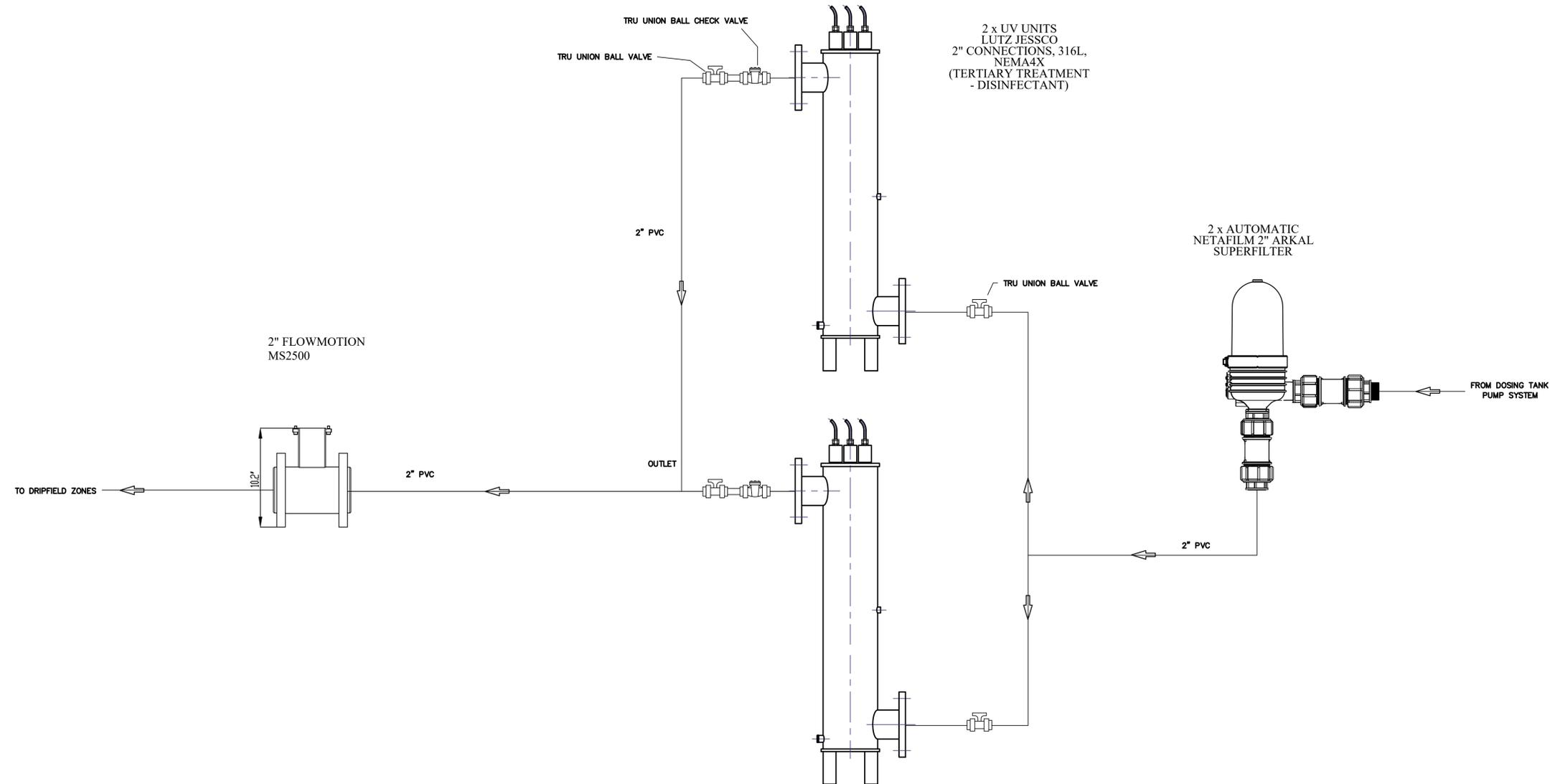


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AdvanTex® AX100 Treatment System Ventilation
Collective air inlet details

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		



UV/FILTER/MAG METER LAYOUT DETAIL
NTS 3.4.1



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PROJECT
1415 SUGAR
LOAF RD

1415 Sugar Loaf
Rd, Sevier
County, TN

DATE CREATED
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SCALE

DESIGNED BY
DH

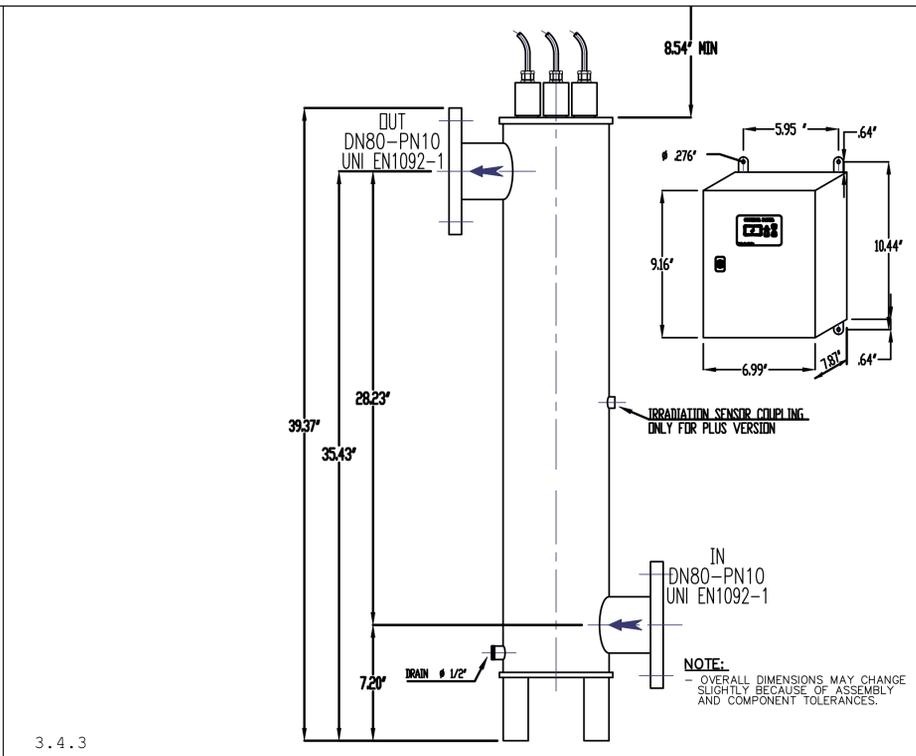
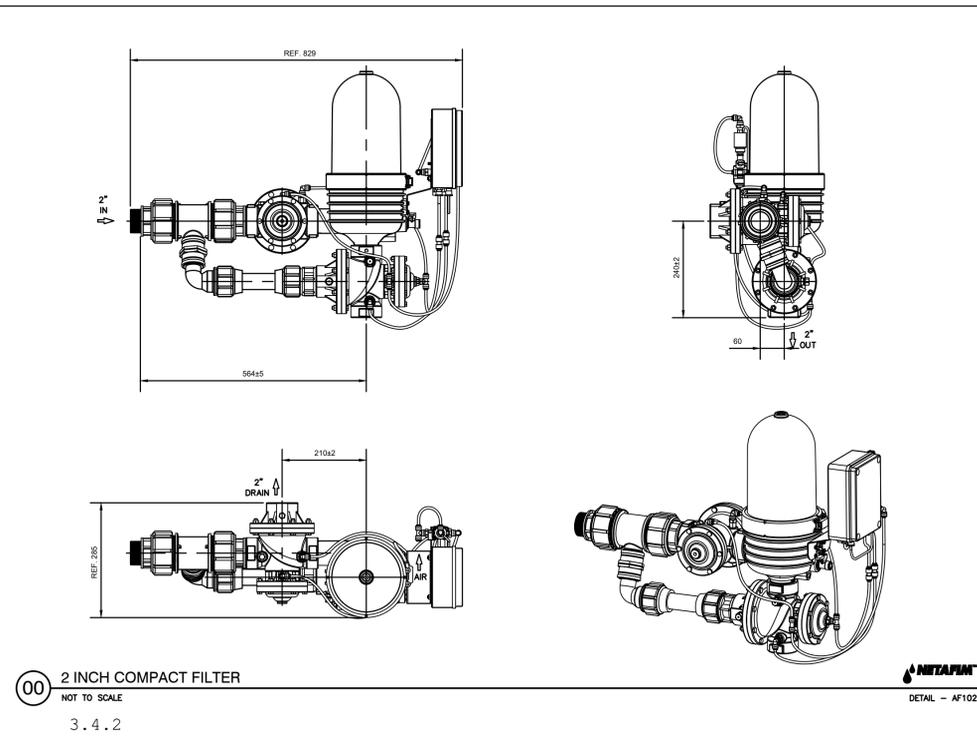
DRAWN BY
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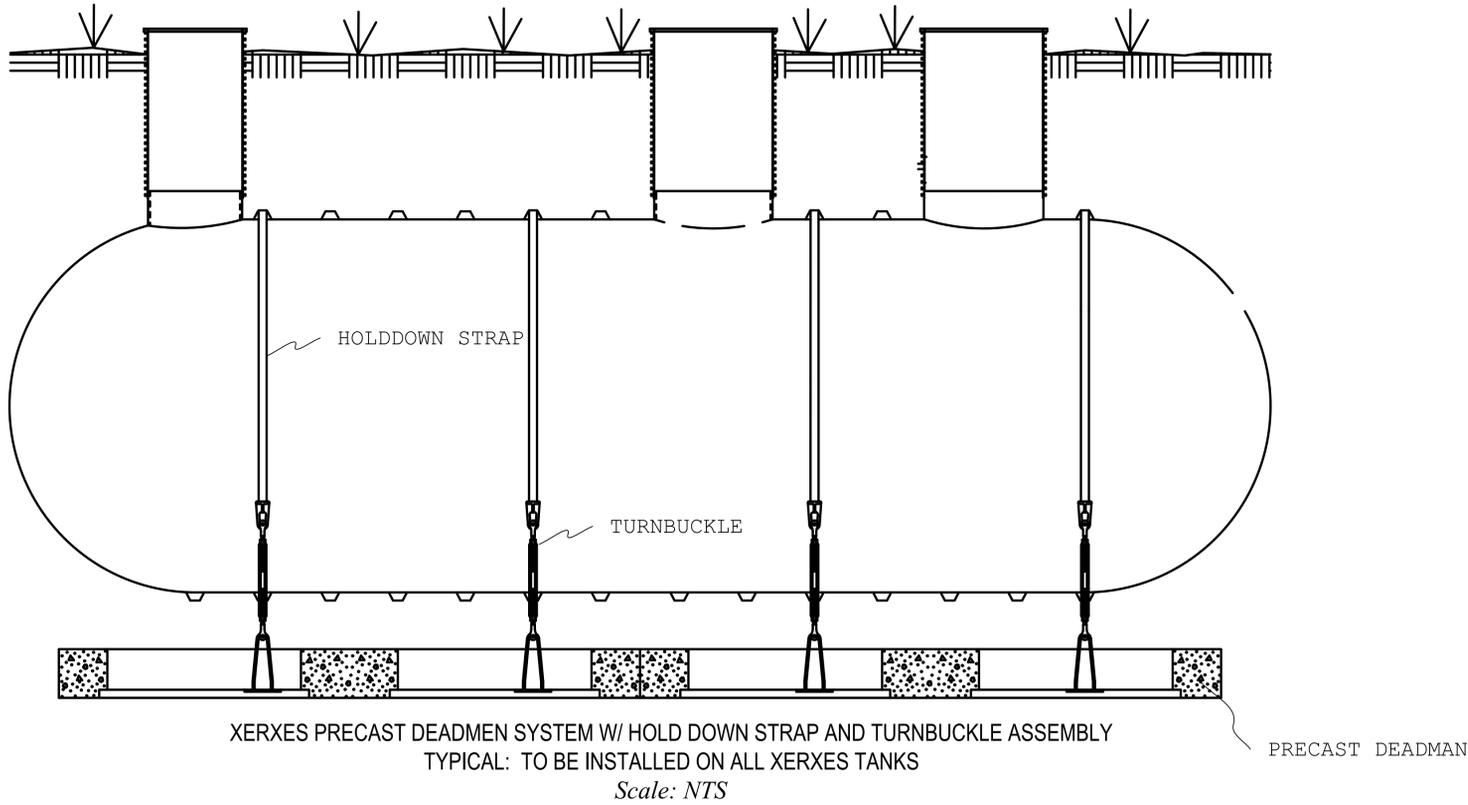
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PROJECT NUMBER
254

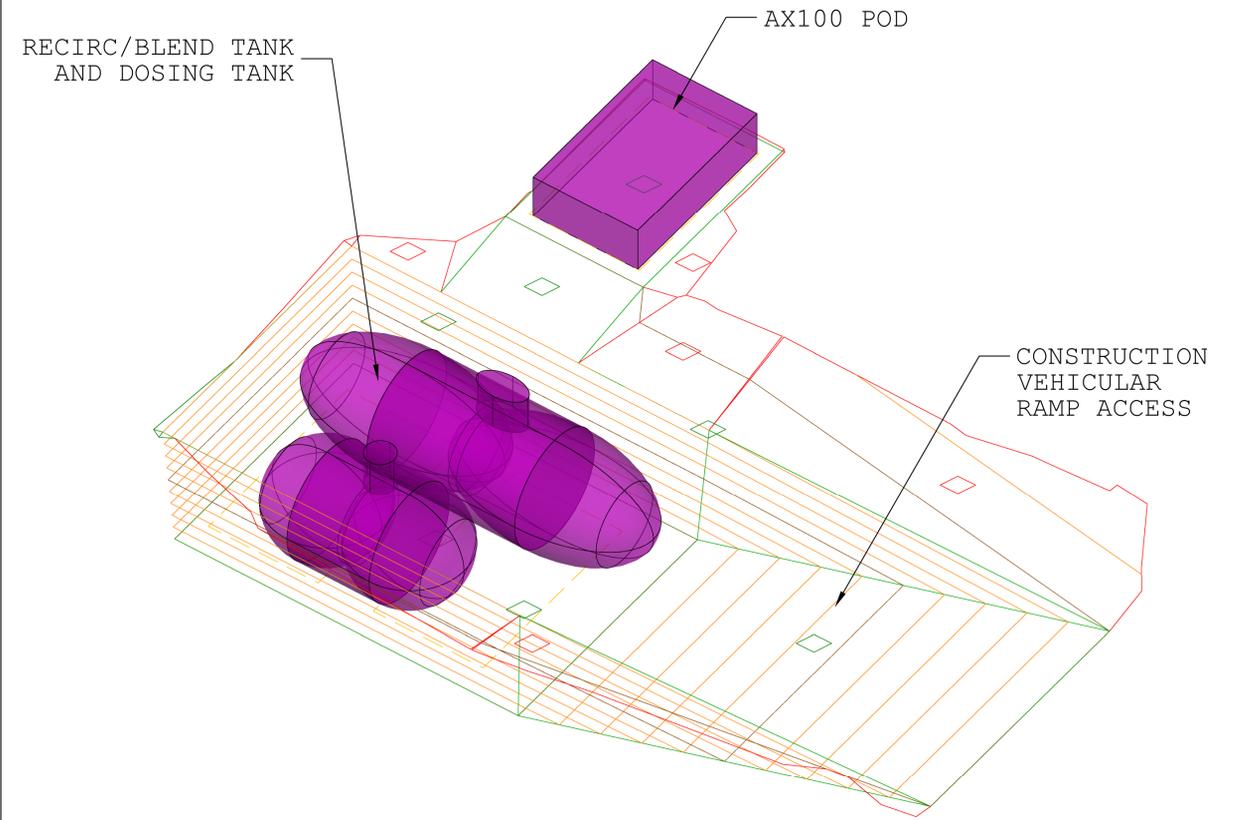
SHEET TITLE
FLOW METER, UV,
FILTER DETAILS

SHEET NUM. REV.
3.4 ---

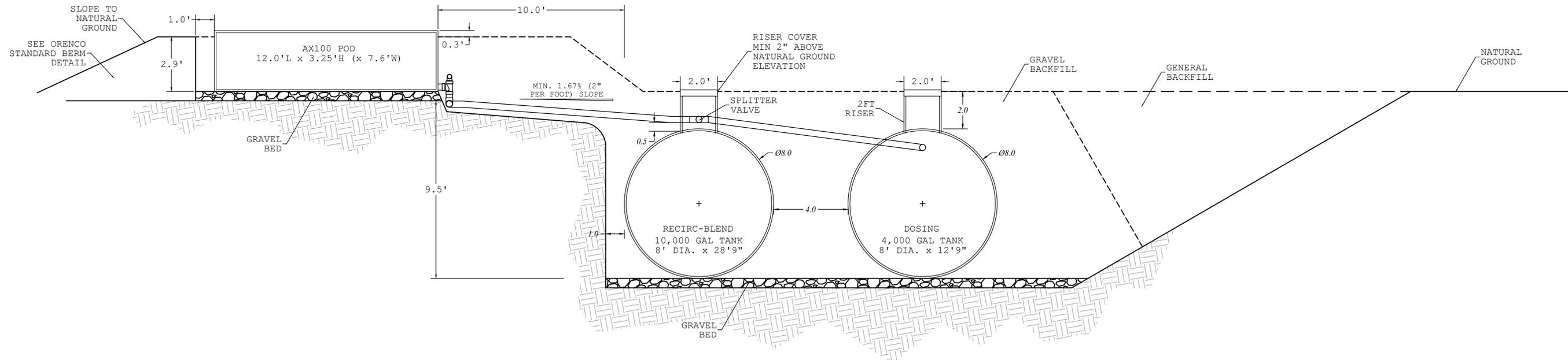




TANK DEADMAN DETAILS
NTS



TANK EXCAVATION DETAIL
NTS



TANK PLACEMENT DETAILS
NTS



SHEET SET GROUP:
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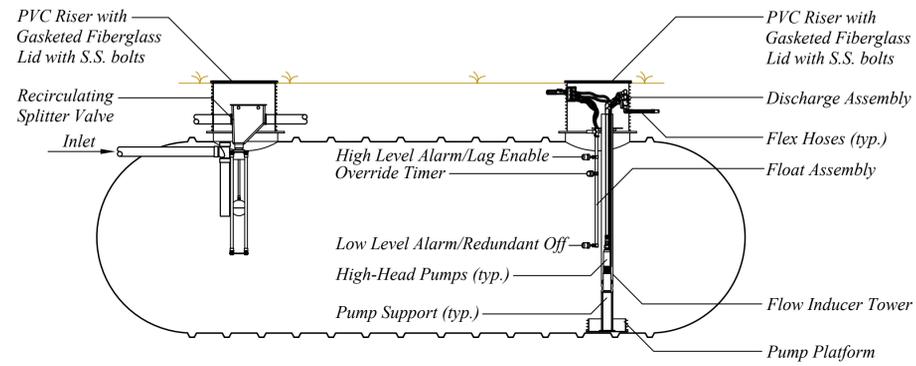
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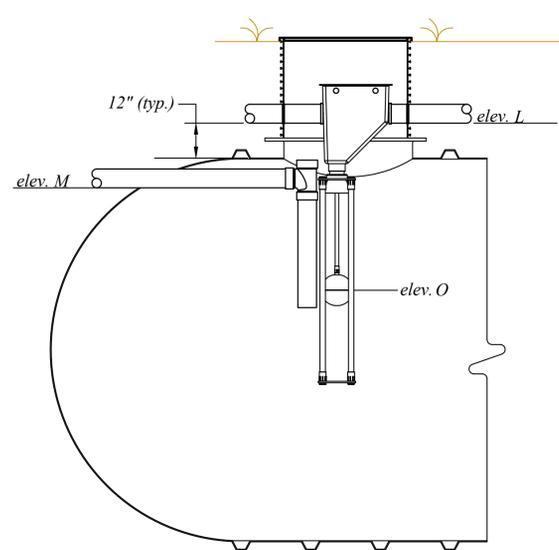
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SHEET TITLE
TANK ELEVATIONS

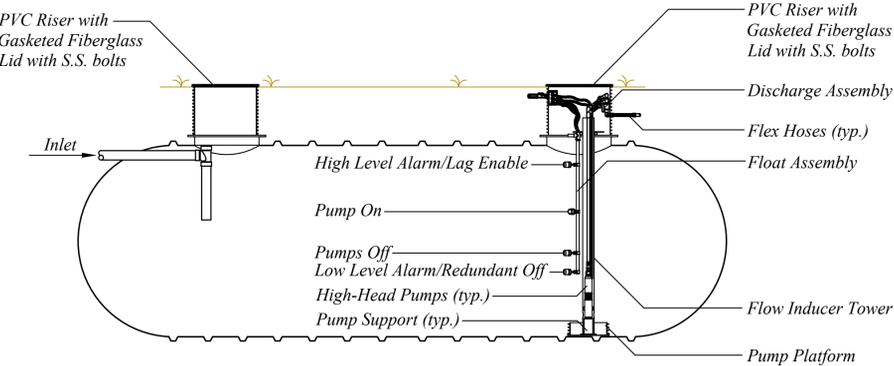
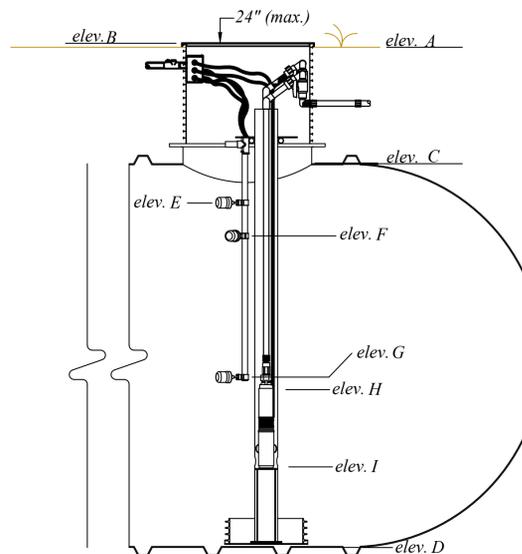
SHEET NUM.	REV.
3.5	---



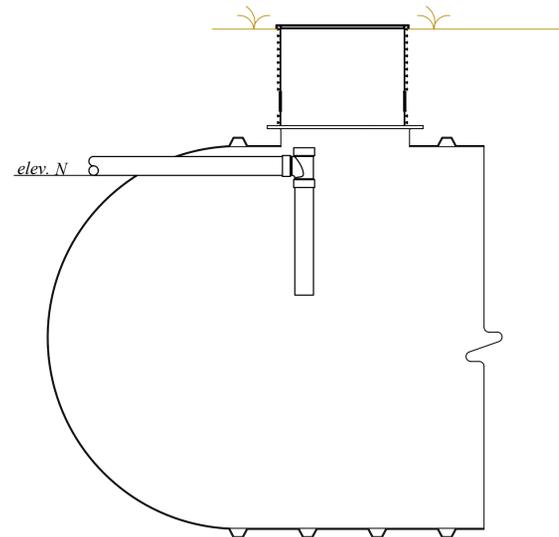
Recirculation Tank
Scale: NTS



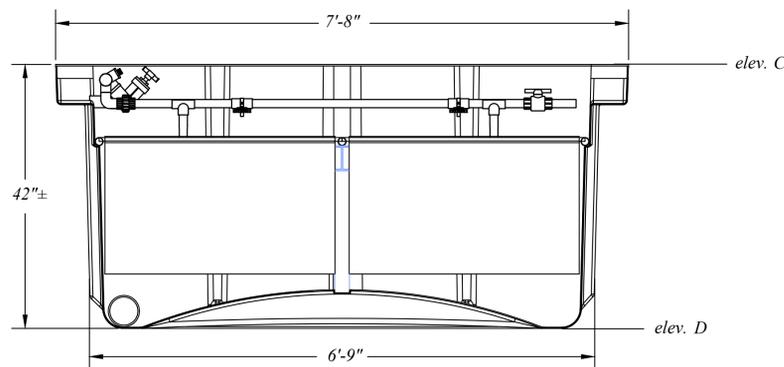
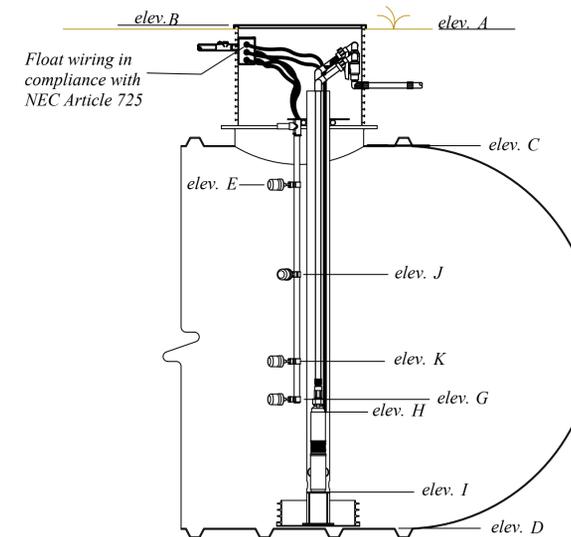
Recirculation Tank Float and RSV Settings
Scale: NTS



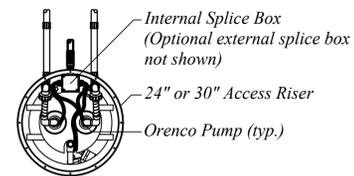
Dose Tank
Scale: NTS



Dose Tank Float Settings
Scale: NTS



AX100 Settings
Scale: NTS



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

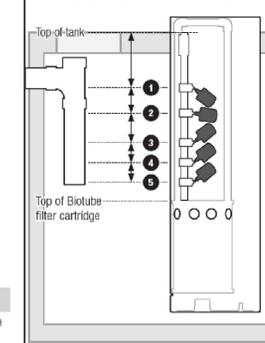
Two-Pump (Duplex) Systems, Demand-Dose

- 1 **High-Level Alarm or High-Level Alarm/Lag Pump Enable:** Set at the same elevation as the tank inlet's invert.
- 2 **Lag Pump Enable (if used):** Set 2in (51mm) below the switch above it.
- 3 **Lead Pump On:** Set 2in (51mm) below the switch above it.
- 4 **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.
- 5 **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

- 1 **High-Level Alarm or High-Level Alarm/Lag Pump Enable:** Set at the same elevation as the tank inlet's invert.
- 2 **Lag Pump Enable (if used):** Set 2in (51mm) below the switch above it.
- 3 **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



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1415 Sugar Loaf Rd, Sevier County, TN

DATE CREATED **2/20/25**

DATE PRINTED **2/27/25**

DATE REVISION ---

SCALE ---

DESIGNED BY **DH**

DRAWN BY **CD**

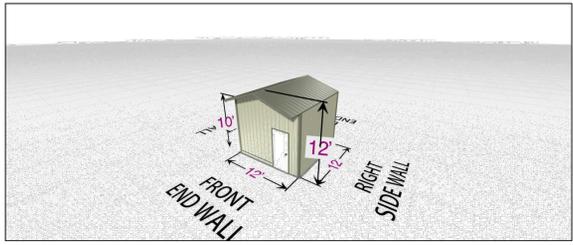
CHECKED BY **CM**

PROJECT NUMBER **254**

SHEET TITLE
TANK AND BASIN DETAILS

SHEET NUM. **3.6** 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

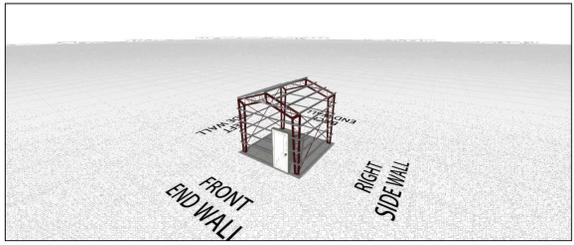
Windows & Doors
 Item Sizes:
 Walk Door Solid: w36' x h76'

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

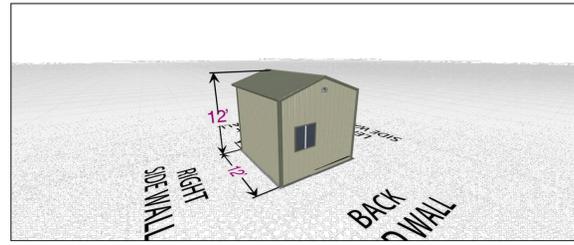
Windows & Doors
 Item Sizes:
 Walk Door Solid: w36' x h76'

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

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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

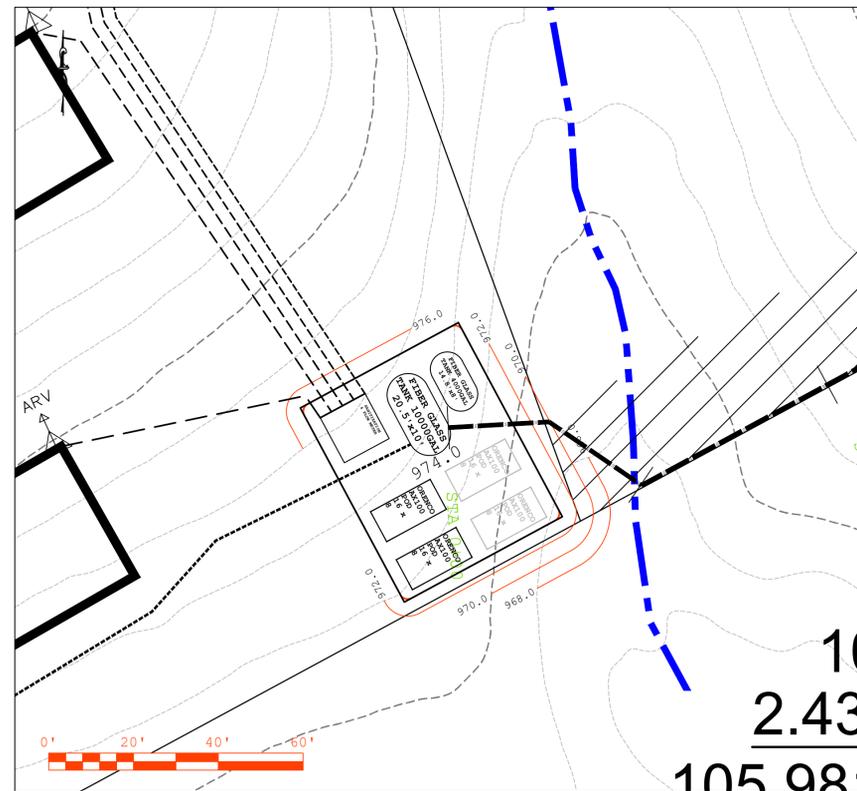
Windows & Doors
 Item Sizes:
 Walk Door Solid: w36' x h76'
 Slider Window: w3' x h3'

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

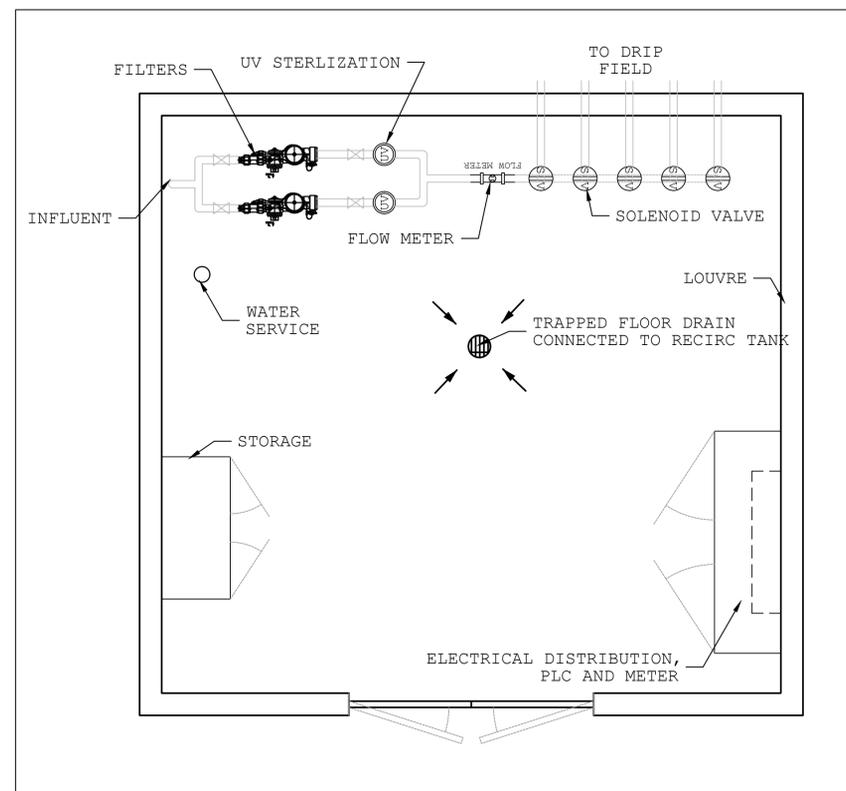
worldwidesteelbuildings.com • (800) 825-0316
 10606 State Route YY Peculiar, MO 64078

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

SHEET SET GROUP: **WWTP**
 ENGINEER
CODY MCELROY PE
 DSH & ASSOCIATES
 10519 LEXINGTON DR,
 KNOXVILLE, TN



WWTP GRADING SCALE 1"=20'



TYPICAL LAYOUT 12'x12' TREATMENT BUILDING NTS

TYPICAL 12'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

CLIENT
CHRIS MOUHOURTIS
 COR13.CHRIS@GMAIL.COM

PROJECT
1415 SUGAR LOAF RD
 1415 SUGAR LOAF RD,
 SEVIER COUNTY, TN

DATE CREATED
2025-02-20

DATE PRINTED
2025-02-27

DATE REVISION

SCALE
#####

DESIGNED BY
DH

DRAWN BY
CD

CHECKED BY
CM

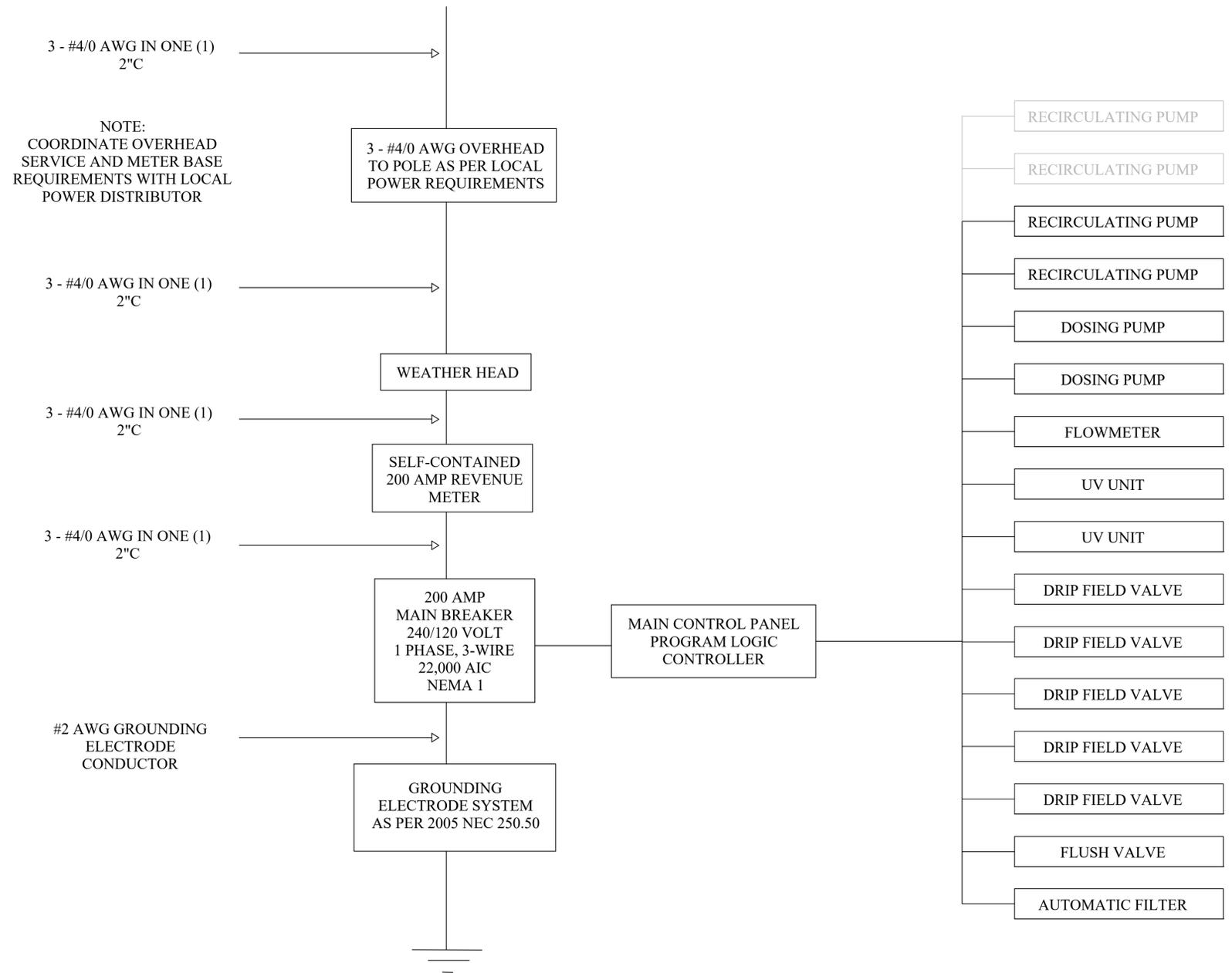
PROJECT NUMBER
254

SHEET TITLE
PLANT ROOM ENCLOSURE & WWTP GRADING

SHEET NUM. REV.
4.0 ---

PRIMARY POWER

SECONDARY POWER



SHEET SET GROUP: **WWTP**

ENGINEER
CODY MCELROY PE

DSH & ASSOCIATES,
10519 LEXINGTON
DR, KNOXVILLE,
TN

CLIENT
CHRIS MOUHOURTIS
COR13.CHRIS
@GMAIL.COM

PROJECT
1415 SUGAR LOAF RD

1415 Sugar Loaf Rd, Sevier County, TN

DATE CREATED **2/20/25**

DATE PRINTED **2/27/25**

DATE REVISION ----

SCALE

DESIGNED BY **DH**

DRAWN BY **CD**

CHECKED BY **CM**

PROJECT NUMBER
254

SHEET TITLE
ELECTRICAL ONE LINE DIAGRAM

SHEET NUM. **5.0** REV. ----



SHEET SET GROUP: WWTP

ENGINEER
CODY MCELROY PE

DSH & ASSOCIATES,
10519 LEXINGTON DR, KNOXVILLE, TN

CLIENT
CHRIS MOUHOURTIS
COR13.CHRIS@GMAIL.COM

PROJECT
1415 SUGAR LOAF RD

1415 Sugar Loaf Rd, Sevier County, TN

DATE CREATED 2/20/25

DATE PRINTED 2/27/25

DATE REVISION ---

SCALE 1" = 50'

DESIGNED BY DH

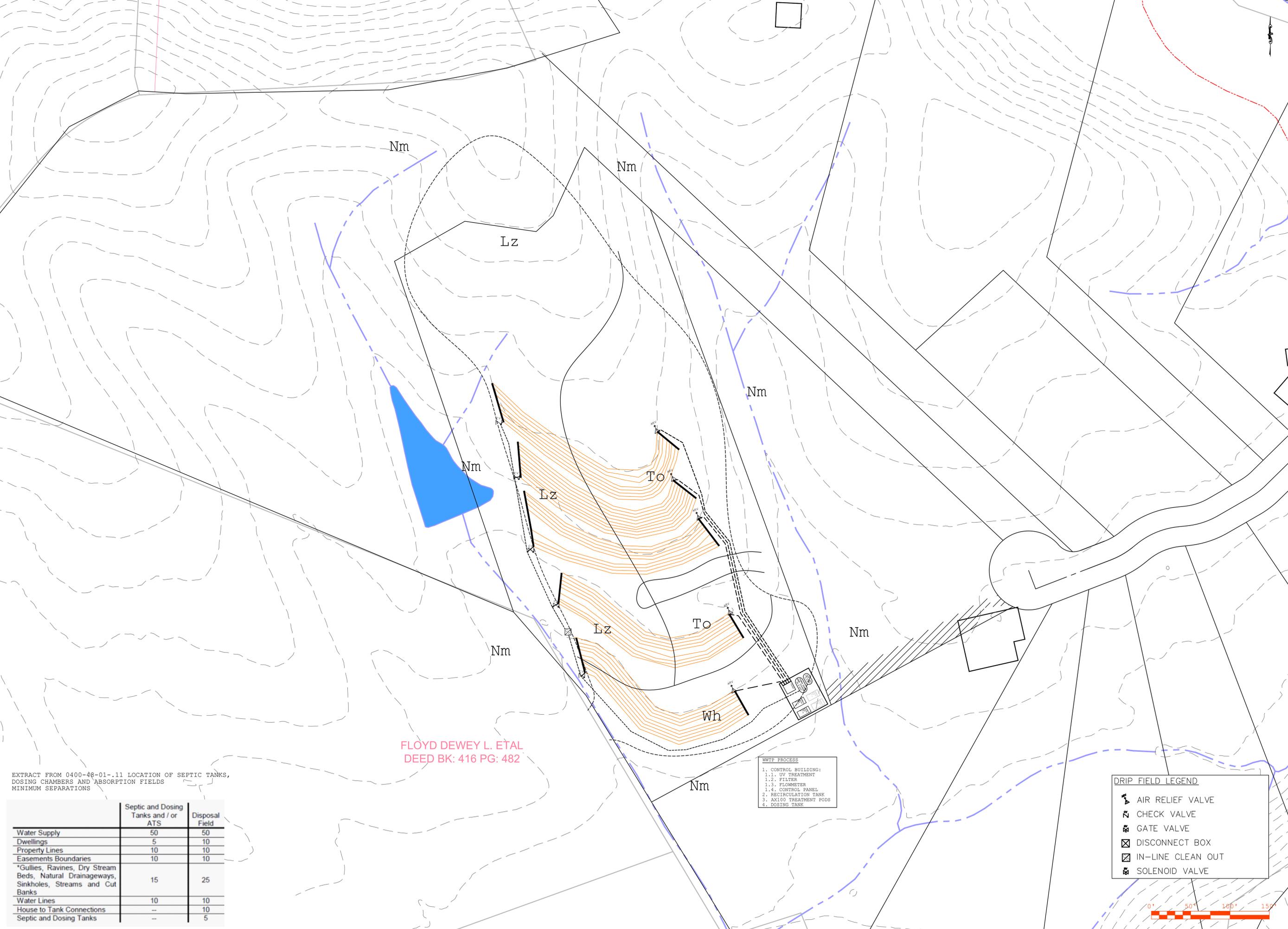
DRAWN BY CD

CHECKED BY CM

PROJECT NUMBER 254

SHEET TITLE
DRIPFIELD LAYOUT

SHEET NUM. 6.0 REV. ---



FLOYD DEWEY L. ETAL
DEED BK: 416 PG: 482

- WWTP PROCESS
1. CONTROL BUILDING:
 - 1.1. UV TREATMENT
 - 1.2. FILTER
 - 1.3. FLOWMETER
 - 1.4. CONTROL PANEL
 2. RECIRCULATION TANK
 3. AXI00 TREATMENT PODS
 4. DOSING TANK

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

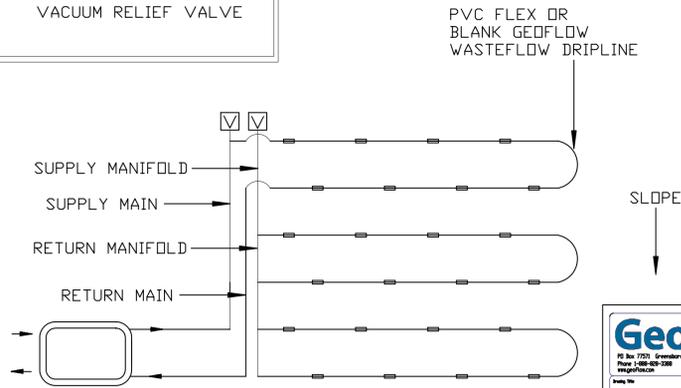


EXTRACT FROM 0400-48-01-.11 LOCATION OF SEPTIC TANKS, DOSING CHAMBERS AND ABSORPTION FIELDS MINIMUM SEPARATIONS

	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

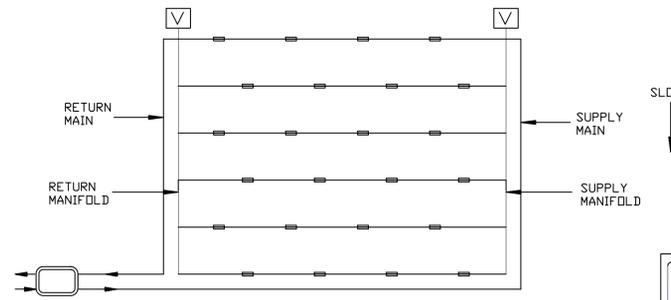
PO Box 7721, Greenville, NC 27417
Phone: 252-850-2388
http://www.geoflow.com

Drawn By: A TDM 6/2/23

Project No: GF586_SingleZoneLooped

LEGEND

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



Geoflow

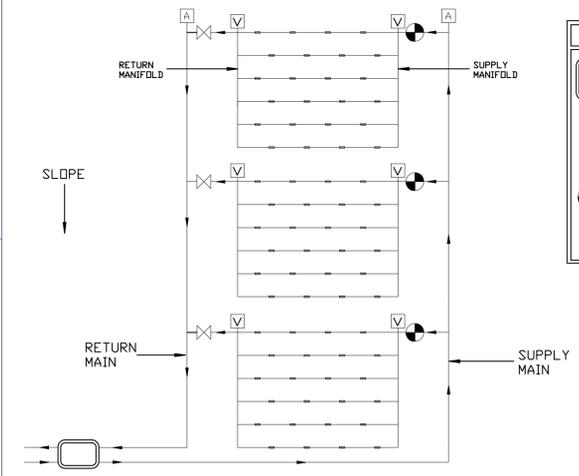
PO Box 7721, Greenville, NC 27417
Phone: 252-850-2388
http://www.geoflow.com

Drawn 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

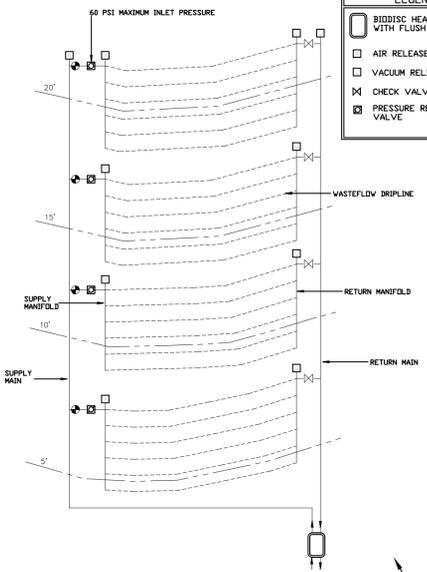
PO Box 7721, Greenville, NC 27417
Phone: 252-850-2388
http://www.geoflow.com

Drawn 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

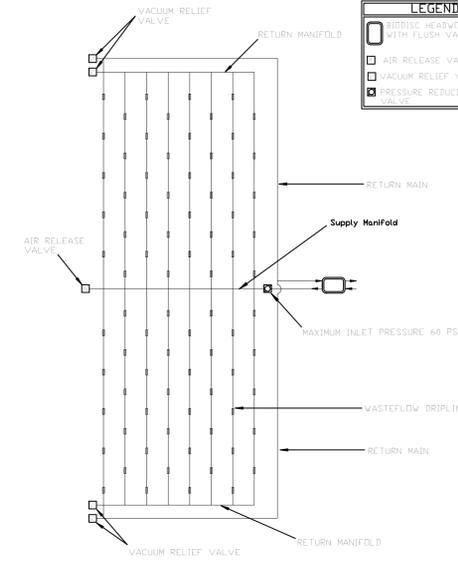
PO Box 7721, Greenville, NC 27417
Phone: 252-850-2388
http://www.geoflow.com

Drawn 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

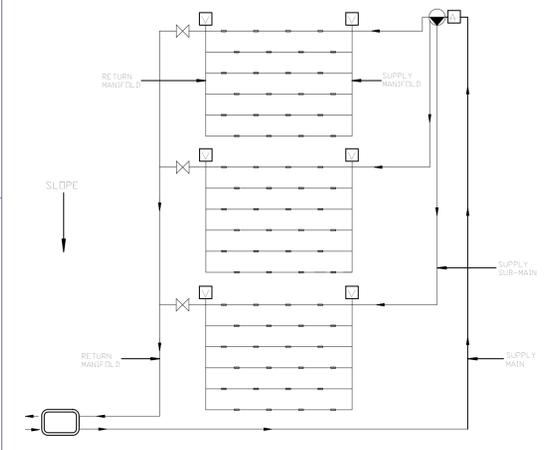
PO Box 7721, Greenville, NC 27417
Phone: 252-850-2388
http://www.geoflow.com

Drawn 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, Greenville, NC 27417
Phone: 252-850-2388
http://www.geoflow.com

Drawn 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: CODY MCELROY PE

DSH & ASSOCIATES
10519 LEXINGTON DR,
KNOXVILLE, TN

CLIENT: CHRIS MOUHOURTIS
COR13.CHRIS@GMAIL.COM

PROJECT: 1415 SUGAR LOAF RD
1415 SUGAR LOAF RD,
SEVIER COUNTY, TN

DATE CREATED: 2025-02-20

DATE PRINTED: 2025-02-27

DATE REVISION: ---

SCALE: NTS

DESIGNED BY: DH

DRAWN BY: CD

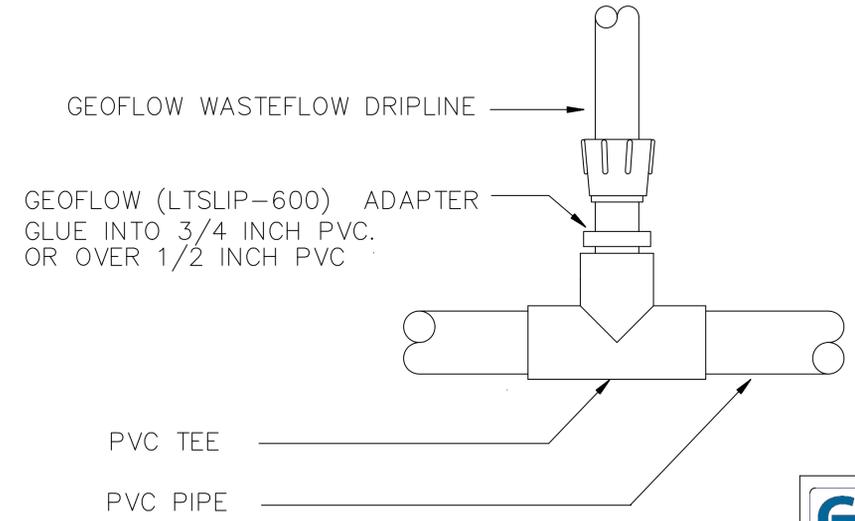
CHECKED BY: CM

PROJECT NUMBER: 254

SHEET TITLE: DRIP FIELD SCHEMATIC

SHEET NUM.: 6.1

REV.: ---

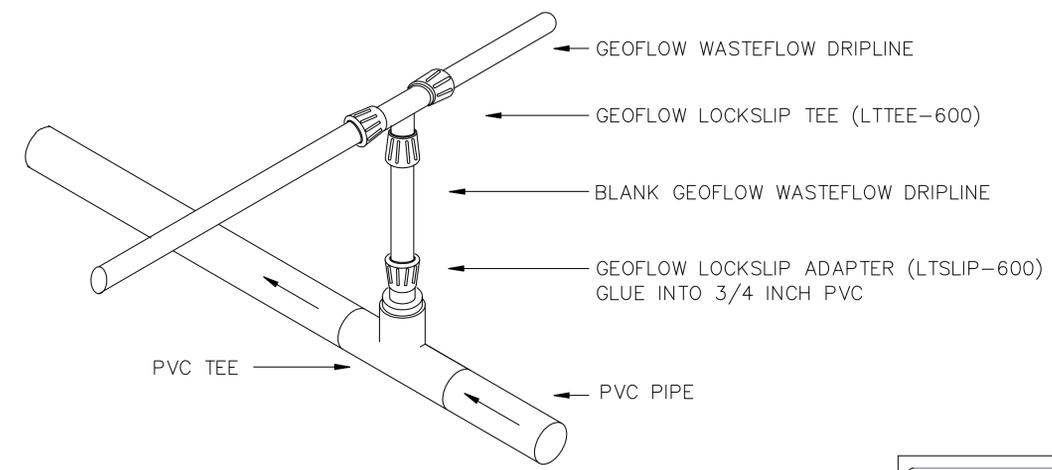


Geoflow
 PO Box 77571 Greensboro, NC 27417
 Phone 1-888-828-3388
 www.geoflow.com

Drawing Title
 Manifold Connection

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

Fig No.
 GF504LS_ManifoldConnection

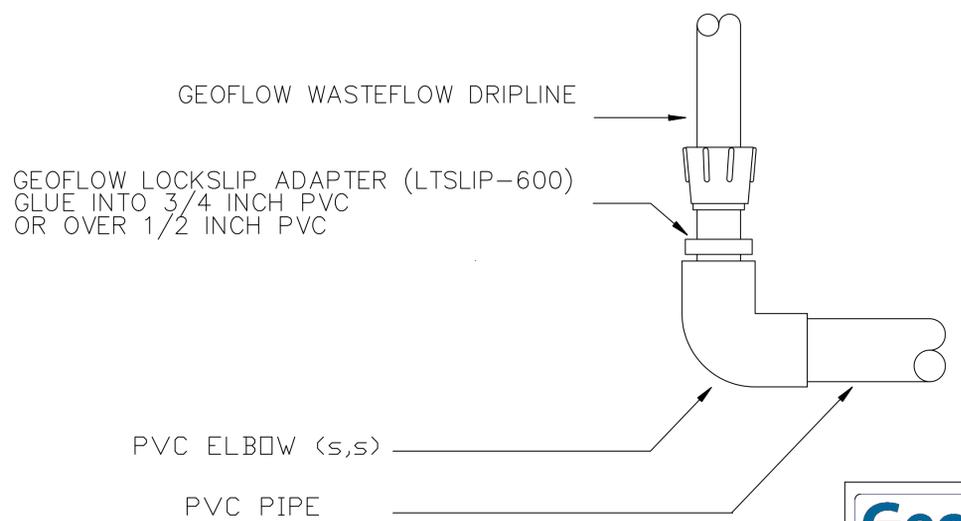


Geoflow
 PO Box 77571 Greensboro, NC 27417
 Phone 1-888-828-3388
 www.geoflow.com

Drawing Title
 Manifold Connection Center Feed

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

Fig No.
 GF510_ManifoldConnection_CenterFeedRiser

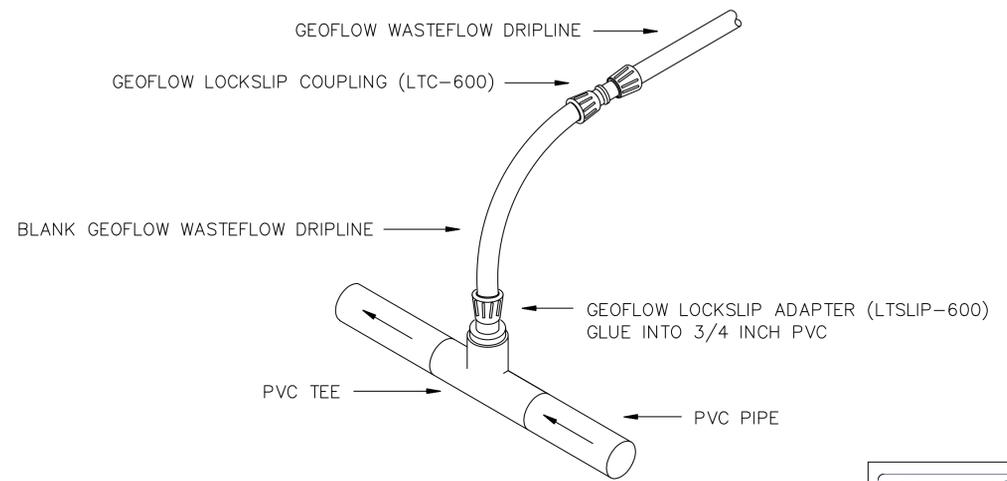


Geoflow
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 Phone 1-888-828-3388
 www.geoflow.com

Drawing Title
 Manifold Connection PVC Elbow

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

Fig No.
 GF506LSManifoldConnection



Geoflow
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 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
CODY MCELROY PE

DSH & ASSOCIATES
 10519 LEXINGTON DR,
 KNOXVILLE, TN

CLIENT
CHRIS MOUHOURTIS
 COR13.CHRIS@GMAIL.COM

PROJECT
1415 SUGAR LOAF RD
 1415 SUGAR LOAF RD,
 SEVIER COUNTY, TN

DATE CREATED
2025-02-20

DATE PRINTED
2025-02-27

DATE REVISION

SCALE
NTS

DESIGNED BY
DH

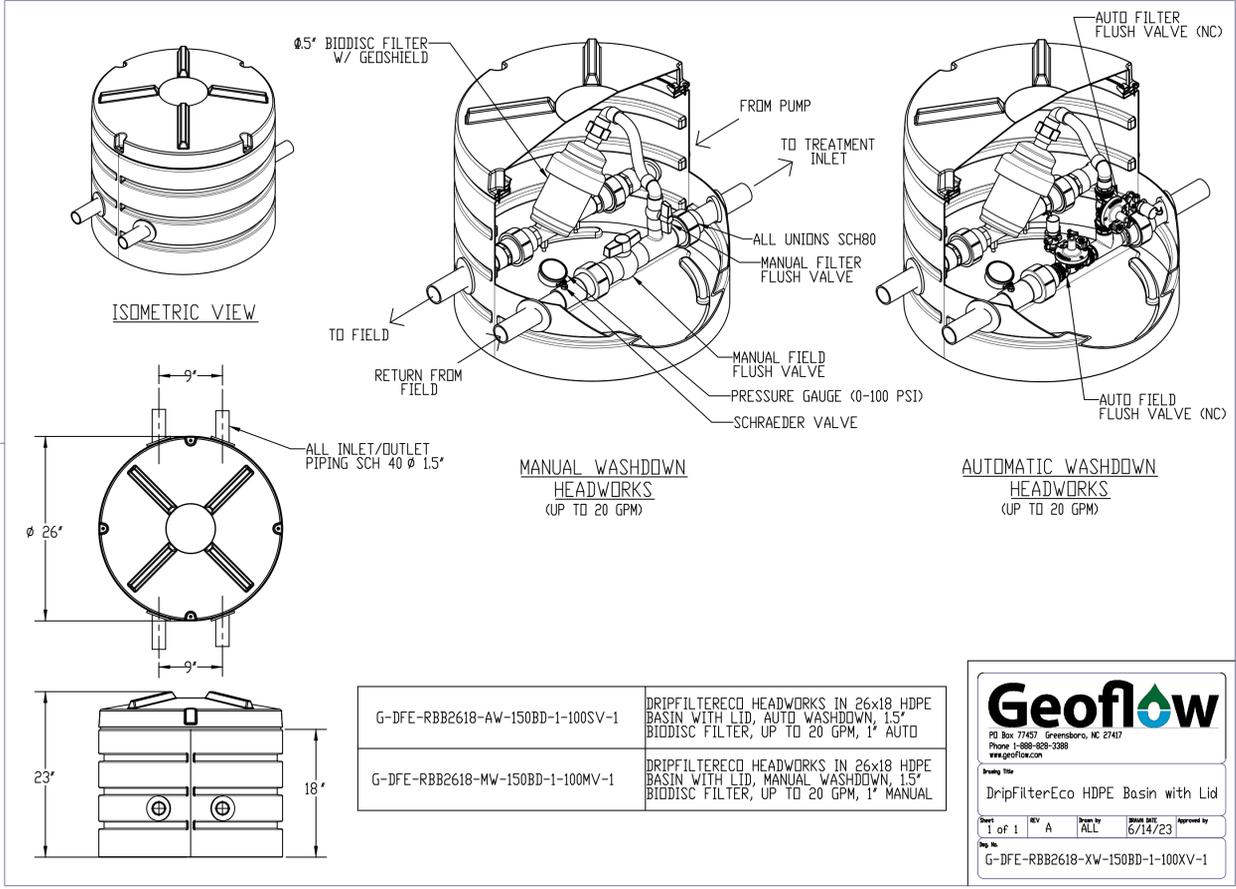
DRAWN BY
CD

CHECKED BY
CM

PROJECT NUMBER
254

SHEET TITLE
DRIP FIELD DETAILS 1

SHEET NUM. REV.
6.2 ---



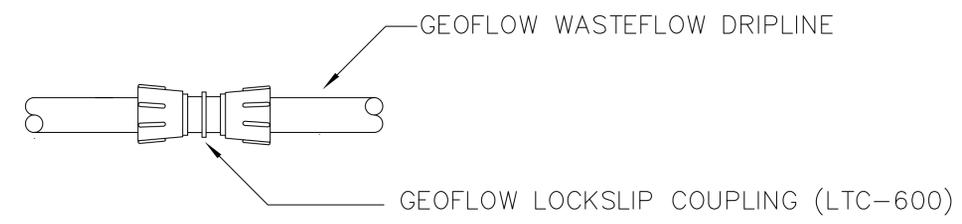
G-DFE-RBB2618-AW-150BD-1-100SV-1	DRIPFILTERECO HEADWORKS IN 26x18 HDPE BASIN WITH LID, AUTO WASHDOWN, 1.5" BIODISC FILTER, UP TO 20 GPM, 1" AUTO
G-DFE-RBB2618-MW-150BD-1-100MV-1	DRIPFILTERECO HEADWORKS IN 26x18 HDPE BASIN WITH LID, MANUAL WASHDOWN, 1.5" BIODISC FILTER, UP TO 20 GPM, 1" MANUAL

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 DR,
 KNOXVILLE, TN

CLIENT
CHRIS MOUHOURTIS
 COR13.CHRIS@GMAIL.COM

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	BioDisc
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

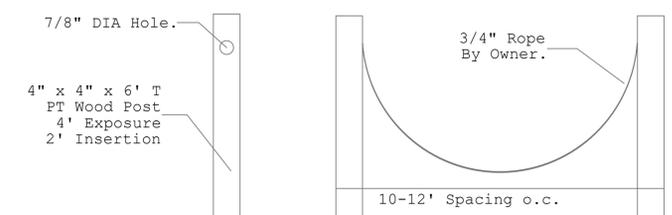
- NOTES:
- Residential headworks models DripFilterEco
 - Commercial headworks models DripFilterPro
 - Qty 3 filters per rack
 - Qty 4 solenoids per rack

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

PROJECT
1415 SUGAR LOAF RD
 1415 SUGAR LOAF RD,
 SEVIER COUNTY, TN

DATE CREATED
2025-02-20

DATE PRINTED
2025-02-27

DATE REVISION

SCALE
NTS

DESIGNED BY
DH

DRAWN BY
CD

CHECKED BY
CM

PROJECT NUMBER
254

SHEET TITLE
DRIP FIELD DETAILS 2



SHEET SET GROUP: **WWTP**

ENGINEER
CODY MCELROY PE

DSH & ASSOCIATES,
10519 LEXINGTON
DR, KNOXVILLE,
TN

CLIENT
CHRIS MOUHOURTIS
COR13.CHRIS
@GMAIL.COM

PROJECT
**1415 SUGAR
LOAF RD**

**1415 Sugar Loaf
Rd, Sevier
County, TN**

DATE CREATED
2/20/25

DATE PRINTED
2/27/25

DATE REVISION

SCALE
1" = 100'

DESIGNED BY
DH

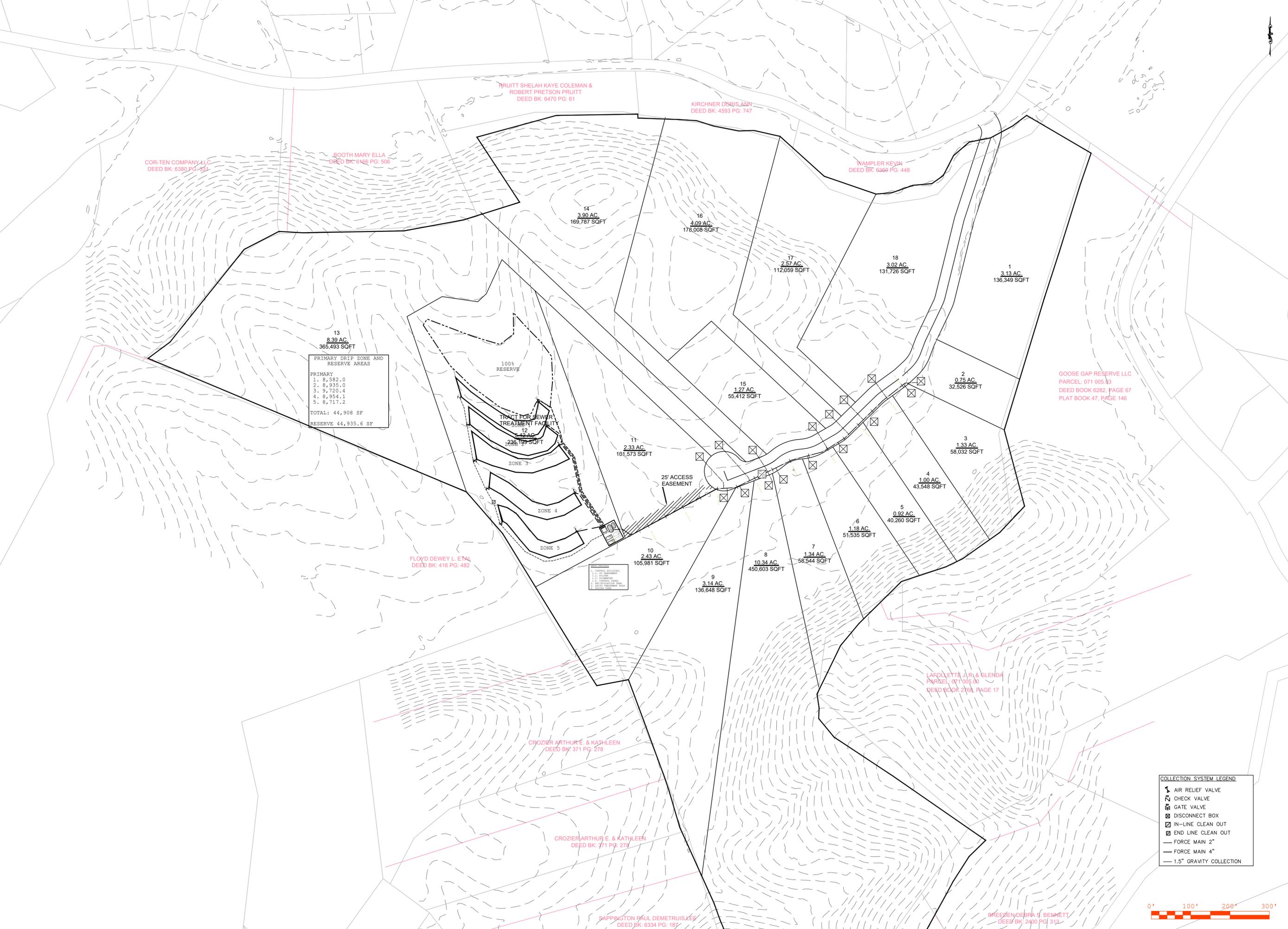
DRAWN BY
CD

CHECKED BY
CM

PROJECT NUMBER
254

SHEET TITLE
**COLLECTION
SYSTEM**

SHEET NUM. REV.
7.0 ---



13
8.39 AC.
365,493 SQFT

PRIMARY DRIP ZONE AND RESERVE AREAS

PRIMARY

- 8,582.0
- 8,935.0
- 9,720.4
- 8,954.1
- 8,717.2

TOTAL: 44,908 SF
RESERVE 44,935.6 SF

LEGEND

- 1. CONTROL BUILDING
- 2. 25' EASEMENT
- 3. PERMITS
- 4. CONTROL BUILDING
- 5. ALLIANCE TREATMENT PLANT

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



COR-TEN COMPANY LLC
DEED BK: 6380 PG: 231

BOOTH MARY ELLA
DEED BK: 6168 PG: 506

FRUITT SHELAH KAYE COLEMAN &
ROBERT PRETSON FRUITT
DEED BK: 6470 PG: 61

KIRCHNER D'SEIS ANN
DEED BK: 4593 PG: 747

WAMPLER KEVIN
DEED BK: 6369 PG: 448

GOOSE GAP RESERVE LLC
PARCEL: 071 005 03
DEED BOOK 6282, PAGE 67
PLAT BOOK 47, PAGE 146

FLOYD DEWEY L. ETAL
DEED BK: 416 PG: 482

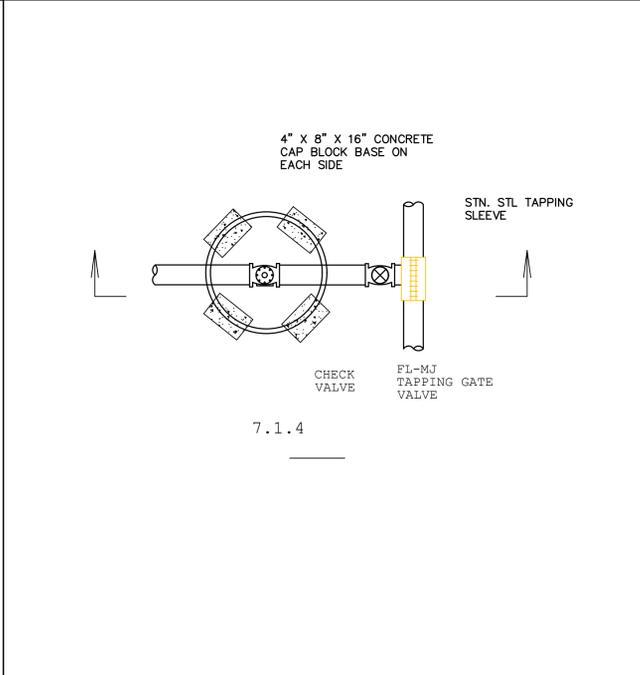
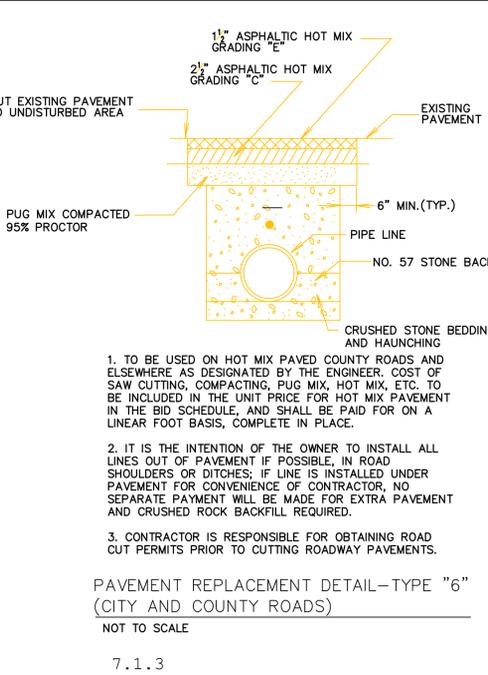
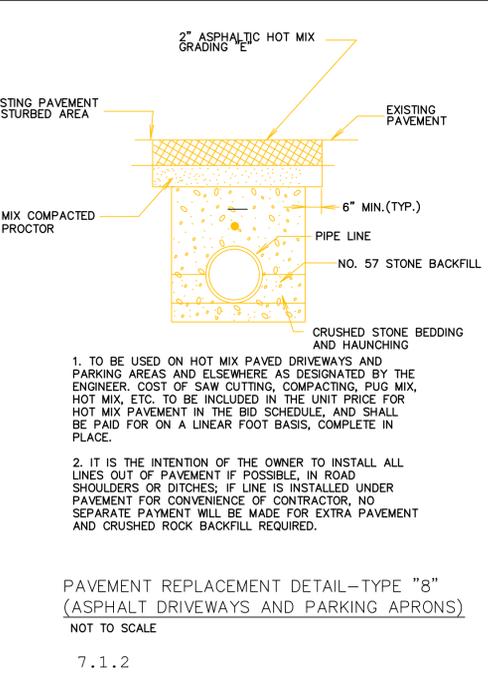
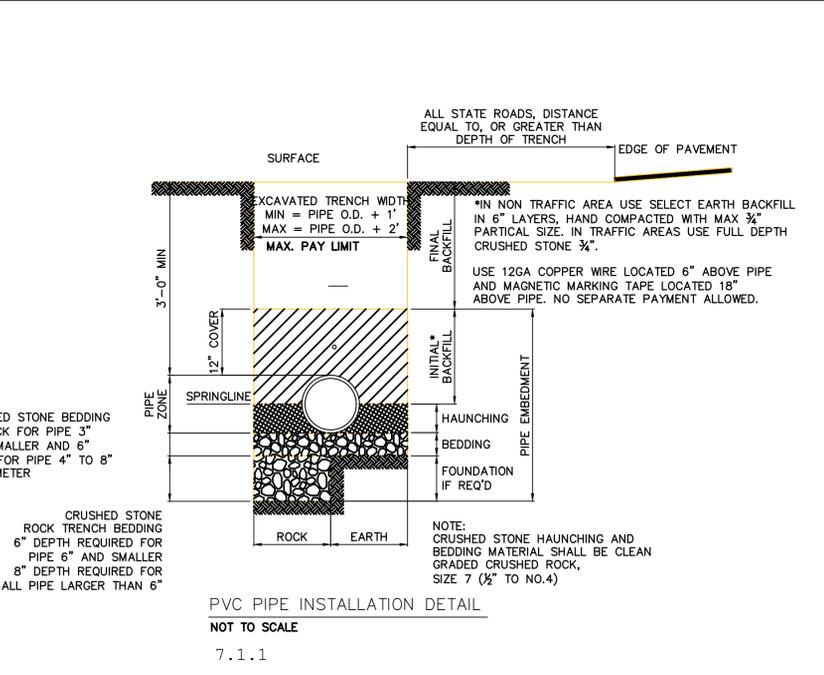
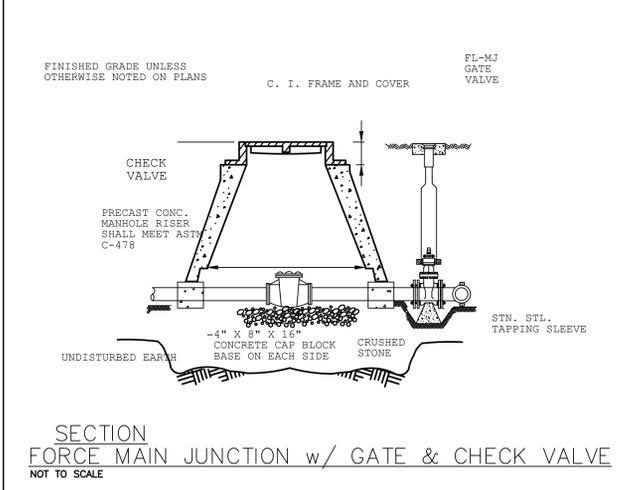
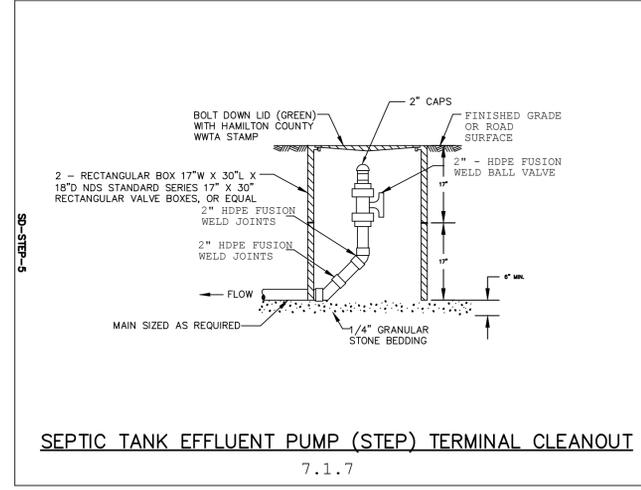
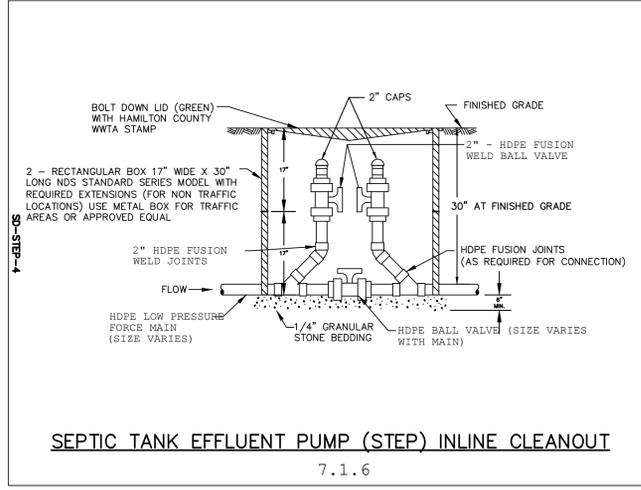
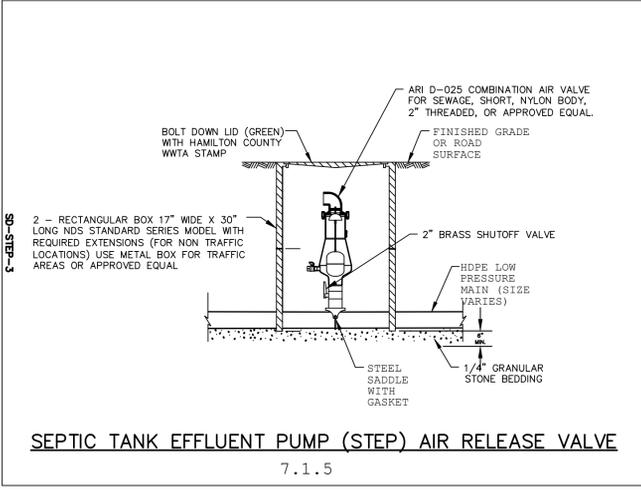
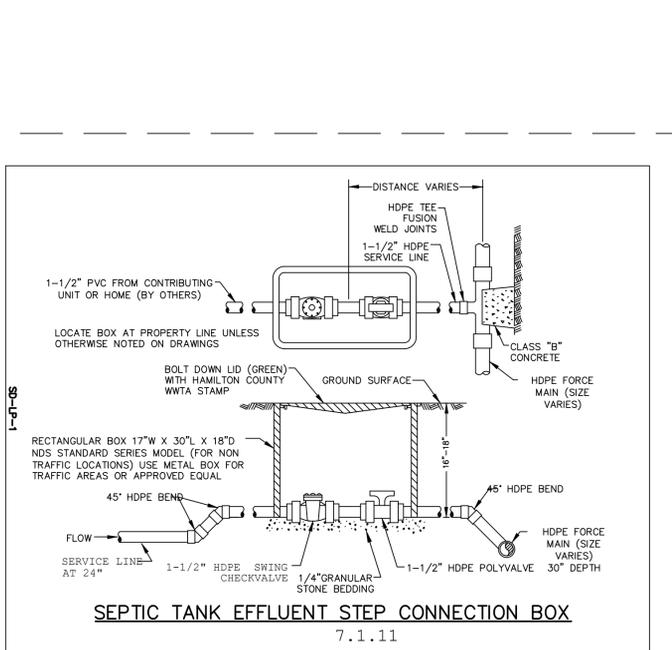
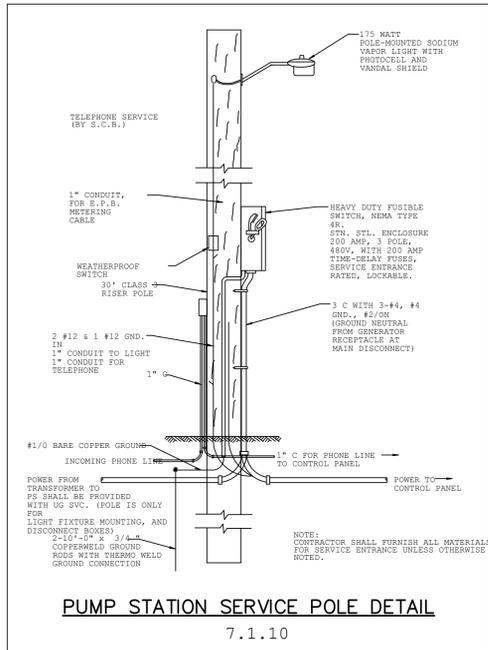
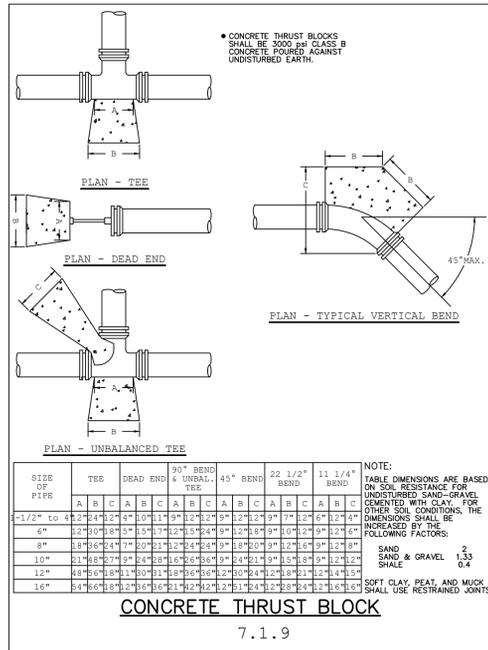
CROZIER ARTHUR E. & KATHLEEN
DEED BK: 371 PG: 278

CROZIER ARTHUR E. & KATHLEEN
DEED BK: 371 PG: 278

SAPPINGTON PAUL DEMETRIUS,EE
DEED BK: 6334 PG: 187

LAFOLLETTE J. R. & GLENDA
PARCEL: 071 005 00
DEED BOOK 2768, PAGE 17

BREEZEN/DEBRA S. BENNETT
DEED BK: 2400 PG: 312



SHEET SET GROUP: WWTP

ENGINEER
CODY MCELROY PE

DSH & ASSOCIATES,
10519 LEXINGTON DR, KNOXVILLE, TN
CLIENT
CHRIS MOUHOURTIS
COR13.CHRIS@GMAIL.COM

PROJECT
1415 SUGAR LOAF RD

1415 Sugar Loaf Rd, Sevier County, TN

DATE CREATED 2/20/25

DATE PRINTED 2/27/25

DATE REVISION ---

SCALE NTS

DESIGNED BY DH

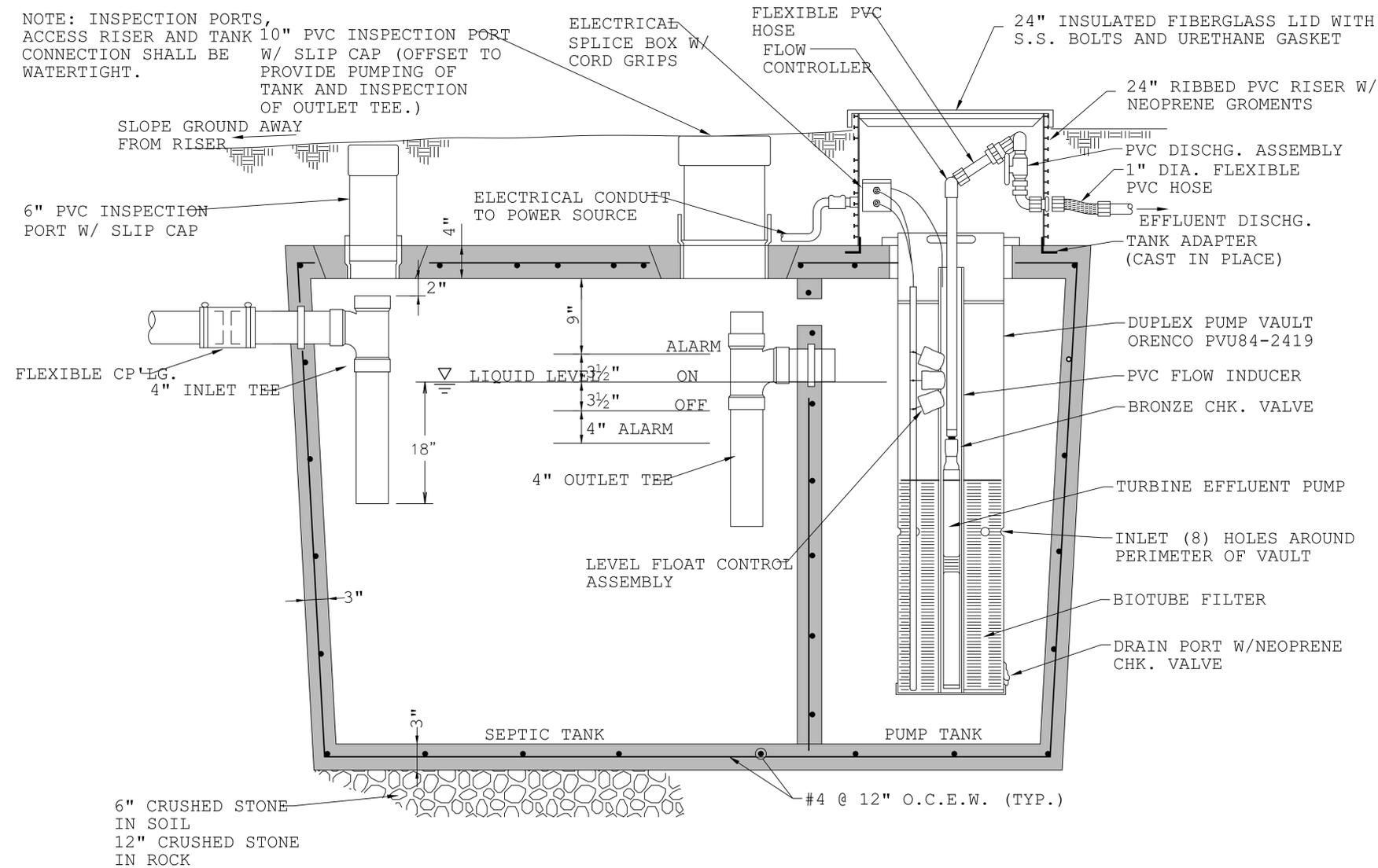
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CHECKED BY CM

PROJECT NUMBER 254

SHEET TITLE
COLLECTION SYSTEM DETAILS

SHEET NUM. 7.1
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: WWTP

ENGINEER
CODY MCELROY PE

DSH & ASSOCIATES,
10519 LEXINGTON DR, KNOXVILLE, TN

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COR13.CHRIS@GMAIL.COM

PROJECT
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1415 Sugar Loaf Rd, Sevier County, TN

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NTS

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DH

DRAWN BY
CD

CHECKED BY
CM

PROJECT NUMBER
254

SHEET TITLE
COLLECTION TANK DETAILS

SHEET NUM. REV.
7.2 ----

DR 5 – STATE OPERATOR CERTIFICATE

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

I.D. NO.

2289

EXPIRATION DATE

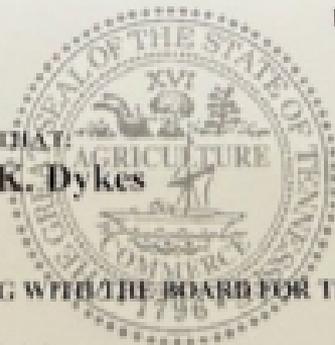
12/31/2025

THIS IS TO CERTIFY THAT

Darian K. Dykes

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

WW4, CS2



DR 6 – CURRENT LIMESTONE TARIFF

Limestone Water UOC

Water & Wastewater Service Tariff

Rate Schedules

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SCHEDULE OF RATES & CHARGES – WATER SERVICE (PHASE 1 of 2)

Availability: This rate is available to water customers located at the following systems:

Aqua Utilities

For Metered Service

Monthly Minimum (Includes 0 gallons)

For service through all meter sizes \$31.00 / month

Commodity Charge: \$3.05 / 1,000 gallon

Availability: This rate is available to water customers located at the following systems:

Candlewood Lakes

For Unmetered Service

Monthly Minimum: \$50.00 / month

Non-Recurring Charges:

Service Connection/Tap Fee Charge:	
<u>Aqua</u>	\$1,425
Disconnection Charge:	\$35.00
Reconnection Charge:	\$35.00
Returned Check Charge:	\$16.00
Late Payment Charge:	5%
Meter Tampering Penalty Fee	\$250.00

Rate Case Expense Surcharge (Per Connection) \$2.79
((\$250K to be collected over 3 years)

SCHEDULE OF RATES & CHARGES – SEWER SERVICE (PHASE 1 of 2)

Availability: This rate is available to sewer Customers located at the following systems:

Aqua Utilities

Residential: Monthly Flat Rate

For service through all meter sizes \$35.00 / month

Commercial: Monthly Flat Rate per Equivalent Residential Unit*:

Monthly Rate: \$35.00 / month

Availability: This rate is available to sewer Customers located at the following systems:

Grassland

Residential:

1-2 Bedroom \$65.00 / month

3 Bedroom \$70.00 / month

4 Bedroom \$75.00 / month

5 Bedroom \$75.00 / month

Commercial: Monthly Flat Rate per Equivalent Residential Unit*:

Monthly Rate: \$168.96 / month

Availability: This rate is available to sewer Customers located at the following systems:

Arrington/Hardeman/Hideaway

Residential:

All: \$75.00 / month

Commercial: Monthly Flat Rate per Equivalent Residential Unit*:

Monthly Rate: \$168.96 / month

Availability: This rate is available to sewer Customers located at the following systems:

Chapel Woods

Residential:

All: \$40.00 / month

Availability: This rate is available to sewer Customers located at the following systems:

Shiloh Falls

Residential:

All: \$25.00 / month

Commercial: Monthly Flat Rate per Equivalent Residential Unit*:

Monthly Rate: \$55.60 / month

Availability: This rate is available to sewer Customers located at the following systems:

Lakeside Estates (DSH)

Residential:

All: \$55.00 / month

Commercial: Monthly Flat Rate per Equivalent Residential Unit*:

Monthly Rate: \$55.00 / month

Non-Recurring Charges:

Service Connection/Tap Fee Charge:

Aqua	\$1,425
Cartwright	\$10,000
Shiloh Falls	\$850
Lakeside Estates (DSH)	\$3,750
Disconnection Charge:	\$35.00
Reconnection Charge:	\$35.00
Returned Check Charge:	\$16.00
Late Payment Charge:	5%
Rate Case Expense Surcharge (Per Connection)	\$2.79
(\$250K to be collected over 3 years)	

*Equivalent Residential Units (“ERU’s”) have been assigned to each Commercial Customer utilizing typical wastewater flow rates derived from the Tennessee Department of

Environment and Conservation “Plans Review and Approval of Sewage Works Construction Plans and Documents”.

Limestone Water UOC

Water & Wastewater Service Tariff

Rules and Regulations

RULES AND REGULATIONS

A. Statement of Purpose

The general purpose of these rules and regulations are to establish procedures for furnishing water, sewerage and sewage treatment services on a uniform basis to Customers within the service area boundaries of Limestone Water Utility Operating Company.

B. Rates, Rules and Regulations Governing Rendering of Service

1. A copy of all Rates, Rules, Regulations and Conditions of Service is on file with the Commission and may be inspected by the public by contacting the Company.
2. All Services furnished by the Company shall be subject to these Rates, Rules, Regulations and Conditions of Service, and are made a part of all applications or contracts (both oral and written) for service. They are subject to revision, change, modification or cancellation by the Company, subject to the approval of the Commission, or by the Commission through utility industry orders and rules. The failure of the Company to enforce any of the terms of these Rates, Rules, Regulations and Conditions of Service shall not diminish or sacrifice its right to do so.
3. Upon request by an Applicant or Customer, the Company shall supply without charge, a copy of applicable rate schedules.

C. Definition of Terms

1. Applicant – An Applicant is any person, firm, corporation, or government entity making an application for service and may include developers.
2. Collection Sewer – A pipeline, including force pipelines, gravity sewers, interceptors, trunk sewers, manholes, and necessary appurtenances, including service tees, wyes, and saddles, which is owned and maintained by the Company, located on public property or on private easements, and used

to transport sewage waste from the Customer's Lateral Sewer to the point of disposal. A "Pressure Collection Sewer" is a Collection Sewer, including tees, wyes, and saddles, operated under pressure from pump units owned and operated by customers connecting to the Collection Sewer.

3. Commercial Service – The words Commercial Service shall mean the provision of service to a Customer whose primary use is for other than the Customer's personal dwelling.
4. Commission - The word Commission shall mean the Tennessee Public Utility Commission.
5. Company - The word Company shall mean Limestone Water Utility Operating Company.
6. Company Service Pipe – The portion of the water Service Pipe extending from the Distribution Main to and including the Curb Cock, or the outlet connection of the Meter, installed and maintained at the cost and expense of the Company.
7. Curb Cock – A valve on the Company Service Pipe, located at or near the Customer's property line, and used to shut off water service to the Premises. The Curb Cock is owned and maintained by the Company.
8. Customer - The word Customer shall mean any person, firm, corporation, association or government unit furnished water and/or sewerage services by the Company.
9. Customer Service Pipe – The portion of water service pipe from the inlet to the Meter if applicable, or to the Curb Cock if no meter is in place, to the Customer's Premises, installed and maintained at the cost and expense of the Customer.
10. Discontinuance of Service – Disconnection or termination of service not at Customer request.
11. Distribution Main – The Distribution Main means water pipe owned, operated, or maintained by the Company and used for the purpose of distribution of water and to which the Company Service Pipe is connected.

12. Engineer - The word Engineer shall mean the consulting engineer of Limestone Water.
13. Grinder Pump – The individual Grinder Pump installed at each applicable Customer’s Premises that receives and pumps sewage from the Customer through the remainder of the Customer’s Lateral Sewer to the Company’s Collection Sewer. This includes the pump, the pump sump, electrical control panel, and interconnecting wiring. The Grinder Pump and all attendant components are installed and maintained at the cost and expense of the Customer. Additionally, the Customer is responsible for all costs of maintaining the pump sump including the pumping of any accumulated sludge.
14. Lateral Sewer – The words Lateral Sewer shall mean the piping extending from the Collection Sewers to the Customer’s Premises (for Customers with gravity only sewer connections) and shall include the Service Box (for Customers with Grinder Pumps), installed and maintained at the cost and expense of the Customer.
15. Main - The word “Main” shall mean a water pipe, owned, operated and maintained by a utility, which is used for the purpose of transmission or distribution of water but is not a water service pipe.
16. Meter - The word “Meter” shall mean any device for measuring the quantity of water used as a basis for determining charges for water service to a Customer.
17. Premise - The word “Premises” as used herein shall be restricted to the following:
 1. A building under one roof owned or leased by one Customer and occupied as one (1) residence or one (1) place of business; or
 2. A combination of buildings owned or leased by one (1) Customer, on one (1) common enclosure occupied by one (1) family as a residence or one (1) corporation or firm as a place of business;
 3. Each unit of a multiple house or building separated by a solid vertical partition wall occupied by one (1) family as a residence or one (1) firm as a place of business; or

4. A building owned or leased by one (1) Customer and having a number of apartments, offices, or lofts which are rented to tenants using in common one (1) hall and one (1) or more means of entrances; or
5. A building two (2) or more stories high under one (1) roof owned or leased by one (1) Customer and having an individual entrance for the ground floor occupants and one for the occupants of the upper floors; or
6. A combination of buildings, such as a garden-type apartment, owned by one (1) Customer, on one (1) common enclosure, none of the individual buildings of which is adapted to separate ownership; or
7. A public building, or
8. A single plot, used as a park or recreational area

18. Residential Service - The words Residential Service shall mean the provision of wastewater service to a Customer whose primary use is for the Customer's personal dwelling.

19. Service Box – For Customers with Grinder Pumps, a below ground valve assembly installed at each individual Customer's property that connects to the Customer's lateral sewer and where the Customer's Service line is connected. The Service Box is owned and maintained by the Customer.

20. Termination of Service – Disconnection or termination of service at Customer request.

D. Access to Property:

1. Company shall have access at all reasonable hours to meters, service connections, and other property owned by it which may be located on Customer's Premises for purposes of installation, maintenance, operation, or removal of its property at the time service is to be terminated. Any employee of the Company whose duties require him to enter the Customer's premises shall wear a distinguishing uniform or other insignia, identifying him as an employee of the Company, or carry on his person a badge or other identification which will identify him/her as an employee or agent of the Company, the same to be shown by him/her upon request.

E. Commencement of Service

1. General

1. A prospective Customer shall not connect or reconnect service, nor employ any person to do so, without authorization by the Company.
2. The Company shall not be under any duty to permit connection or to supply water or sewer service to any Customer whose Premises does not abut on a Distribution Main or Collection Sewer.
 - i. Any Distribution Mains and/or Collection Sewers required to service such abutting properties shall be constructed at the cost of the Applicant, and these sewers shall become the property of the Company to be credited to the account for contribution in aid of construction. If the said Applicant does not wish to construct his own Distribution Mains and/or Collection Sewers, the Company may construct them and charge the Applicant the total project costs for the same. The Applicant shall obtain at its expense the easements required by the Company for any Distribution Mains and/or Collection Sewers. Plans for any Distribution Main and/or Collection Sewer extensions shall be reviewed and approved by the Engineer prior to construction.
3. Requests by Governmental Units for public fire protection service will be governed by these rules and shall only be permitted to the extent that Distribution Mains and water storage facilities are of adequate size to accommodate fire protection service.
4. All Applicants must make application to the Company in a manner prescribed by the Company, setting forth all purposes for which service will be used.
5. Applications for service, when accepted by the Company, shall cover only the Premises and uses applied for.
6. The Customer, in accepting conditions for service, is responsible for all service furnished until the Customer notifies the Company to terminate the service for its account or until the Company has accepted a new service application for the Premises.
7. Any change in the identity of a Customer will require new application, and the Company may, after notice, discontinue service until such new application has been made and accepted.

2. Installation and Maintenance of service lines

1. Water

- i. Where Company Distribution Mains are or may be installed, the Company will install the Company Service Pipe provided the Company Service Pipe is required for general water service to Premises abutting such mains.
- ii. Company Service Pipes for construction or temporary service shall be installed and removed at the Customer's expense.
- iii. A Customer Service Pipe shall not extend from one dwelling, building, structure or parcel of real estate to another dwelling, building, structure or parcel of real estate across a public street or across a property line unless the property line crossed is located within a building complex.
- iv. The Company will make all connections to its Distribution Mains and will specify the size, kind, quality and location of all materials used in the Company Service Line.
- v. The Company Service Pipe shall be furnished, installed and maintained only by the Company and shall remain under its sole ownership, control and jurisdiction.
- vi. Service Pipes for Private Fire Protection Service from the Distribution Main to the curb or property line shall be permitted at the sole discretion of the Company and shall consider the size of Distribution Mains and the adequacy of water storage equipment. Private Fire Protection Service shall be requested by contacting the Company.
- vii. The Customer's Service Pipe shall be installed and maintained by the Customer, free from leaks and other defects, at their own expense and risk, and for failure to do so, water service may be discontinued. The Customer's Service Pipe shall be installed in accordance with applicable governmental regulations and Company specifications below the frost line on firm and continuous earth to give unyielding and permanent support.
- viii. For new Customer Service Lines, the Customer shall install their Customer Service Line to the Meter, Curb Cock or property line at a point approved by the Company, after which the Company will install the Company Service Line from the Distribution Main to the Customer's Service Line.
- ix. Where the Company's Service Line is already installed to the Meter, Curb Cock, or property line, the Customer shall connect with the Company Service Pipe as installed.

- x. The Customer shall make all changes in the Customer's Service Pipe required on account of changes of grade or other causes.
- xi. No fixture shall be attached to, or any branch made in, the Company Service Pipe between the Meter and the Distribution Main, other than by authorized employees of the Company.
- xii. There shall be no more than one Customer Service Pipe supplying a single Premise, unless otherwise approved by the Company.
- xiii. If a Customer, occupant, owner, or any of their agents should damage Company property, repairs shall be made only by the Company, but at the Customer's expense.
- xiv. The Customer shall install and properly maintain on their Customer Service Line a shutoff valve approved by the Company. It shall be in an accessible location, protected from freezing and adequate to shut off and drain all plumbing. Further, where a Customer's Service Line is branched or arranged to supply more than one building, additional valves shall be installed in such manner that service to one of the buildings may be shut off without shutting off service to other buildings. A drawing showing the layout of branched Customer Service Lines and shutoff valves may be required to be submitted and approved by the Company prior to installation of the Customer Service Lines and shutoff valves.
- xv. A Customer Service Line which is irregularly located because there was not a Distribution Main abutting the Premises at the time the Customer Service Line was installed, shall be required at the Customer's expense, to be relocated and connected to the Distribution Main abutting the Premises when replacement becomes necessary.

2. Sewer

i. Grinder Pumps

- I. All applicable Customers must have an approved Grinder Pump and collection system which meets the specifications as established by the Company.

ii. Special Pretreatment Sewage Requirements

- I. For all sewerage connections, in addition to the customary tap fees, the Company reserves the right to require any nonresidential user to provide special treatment for any high strength effluent before discharge

into its sewerage system. In the event that the Customer or Applicant proposes to discharge, or actually consistently discharges, an abnormally high volume or strength of waste, the Company may require the Customer or Applicant to install a pretreatment facility, grease trap or other device on the Premises, to prevent the exceeding of discharge limits, or other adverse impacts upon the Company's system. The installation of any such device as well as its operation and maintenance shall be the responsibility of the Customer or Applicant, and subject to the approval and inspection of the Company. Additionally, if excessive volumes or high strength of sewage are received, the Company may require the Customer to monitor flow volume in order to adjust the monthly sewer service rate.

F. Meters

1. The Company shall have the right to place a Meter on any service pipe and charge for water service by Meter measurement if necessary.
2. All Meters, except fire Service line Meters, shall be furnished, installed, maintained, tested, repaired, removed and replaced only by the Company and shall remain its property. In case of damage to any Meter by reason of any act, neglect or omission on the part of the Customer (such damages occasioned by fire, hot water, accident or misuse), the Customer shall reimburse the Company for the cost of repairing or replacing the Meter.
3. The Company reserves the right to determine the kind, size and type of Meter that shall be placed on any service pipe.
4. Meters may be located either in an outdoor Meter box or vault, or inside the Customer's Premises, at the option of the Company.
5. If the Meter is to be installed inside, it shall be located as near as possible to the point where the service pipe enters the building in a clean, dry, safe place not subject to wide temperature variations so that the Meter may easily be examined, read or removed. The Customer shall, at their expense, provide suitable pipe connections and shut-off valves, one each at the inlet and outlet sides of the Meter, and other appropriate fittings designed by the Company.
6. If the Meter is to be installed in a Meter box or vault, it shall be located in a convenient and readily accessible location at or near the street right-of-way line. Meter boxes or vaults for settings for single Meters shall be furnished, installed and maintained by the Company. The Company shall at its expense,

provide suitable pipe connection and shutoff valves, and such other fittings as may be designated by the Company. Upon a request by the Customer before the original installation is made, the Meter box or vault will be located at the point requested, if feasible under proper utility standards. The Meter box or vault may be constructed to protect the Meter from freezing and damage by vehicular traffic, and its location and design shall prevent, as far as possible, the inflow of surface water.

7. Separate Premises shall be separately metered and billed, and only one Premise shall be supplied through one Meter.
8. The Company reserves the right to put seals and locks on all Meters or Meter couplings.
9. No Customer shall remove or cause or permit the removal of a Meter by their agents once it has been installed by the Company, and any change in location of the Meter desired by the Customer shall first be approved by the Company in writing, but in any situation shall be made by the Company at the Customer's expense. Violation of this tariff provision may result in the Customer being charged a Meter tampering penalty fee in accordance with the tariff.
10. If a Customer requests an additional self-serving Meter or Meters for their Premises (i.e. lawn sprinkling or swimming pool), the Company will make the requested installation at the expense of the Customer and billing will occur as provided in Rule E.
11. The Company may at any time, remove the Meter for routine tests, repair, or replacement.
12. Meters may register in either U.S. gallons or cubic feet. Meter readings in units or hundred cubic feet may be converted to units of hundred gallons for billing purposes if the existing schedule of charges is stated in gallon units. The factor used for making a conversion is one cubic foot as being equivalent to seven and forty-eight hundredths (7.48) U.S. gallons.
13. Every water Meter shall be tested as required by these rules prior to its installation either by the manufacturer, the Company, or any approved organization equipped for Meter testing. Meters with oil-enclosed gear trains should be stored in an inverted position, and, unless so stored, shall be tested immediately before installation. All water Meters removed from service for repair or testing in accordance with these rules shall be restored to the prescribed limits of accuracy by these rules before again being place in service.
14. The Company shall maintain records of the following data, where applicable, for each Meter and/or associated metering device until retirement: (a) the

- complete identification – manufacturer, number, and type; and (b) the dates of installation and removal from service, together with the location.
15. All Meters used for measuring quantity of water delivered to a Customer shall be in good mechanical condition and shall be adequate in size and design for the type of service which they measure and shall be accurate to the following standards.
 16. For determination of minimum test flow and normal test flow limits, the Commission will use as a guide the appropriate standard specifications of the American Water Works Association for the various types of Meters.
 17. Displacement Meters shall be tested at each of the rates of flow stated above for the various size Meters. A Meter shall not be placed in service if it registers less than ninety-five percent (95%) of water passed through it at the minimum flow or over-registers or under-registers more than two percent (2%) at the intermediate or maximum limit, except that a repairs Meter shall not over-register or under-register more than two percent (2%) of the intermediate and maximum flow and shall register not less than the following appropriate percentage of the water passed through it at the minimum test flow: If manufactured on or after January 1, 1947 – ninety percent (90%). If manufactured prior to January 1, 1947 – eighty-five percent (85%).

G. Multiple Meter Settings

1. When more than one Meter setting is installed at a Customer's Premises because of conditions warranted and determined by the Customer, each Meter setting shall be treated separately as if it belonged to a separate Customer, and the registrations of such Meters will not be combined.
2. When more than one Meter setting is installed on a Customer's Premises because of conditions warranted and determined by the Company, the registration of all such Meters shall be combined and the minimum charge shall be the sum of the individual minimum charges for all such Meters.

H. Meter Testing

1. Company shall adopt schedules for periodic and routine tests and repairs of its Meters. The Company will make a test of the accuracy of registration of a Meter upon written request by a Customer. The Customer will be required to bear the full cost of any subsequent test of their Meter if requested at less than eighteen (18) months after the preceding test, and accuracy of the Meter is found to be in compliance with rules of the Commission. The results of such tests will be reported to the Customer in writing within ten (10) days after the

- test is complete or the Customer shall be given the opportunity of being present at such requested tests.
2. Measuring devices for test of Meter may consist of a calibrated tank for volumetric measurement or tank mounted upon scales for weight measurement. If a volumetric standard is used, it shall be accompanied by a certificate of accuracy from any standard laboratory as may be approved by the Commission. If a weight standard is used, the scales shall be tested and calibrated periodically by such approved laboratory and a record maintained of the results of the test.
 3. When basic standards are used for Meter tests, they shall be of a capacity sufficient to ensure accurate determination of accuracy and shall be subject to the approval of the Commission.
 4. By special permission of the Commission, a standard meter may be provided and used by the Company for the purpose of testing Meters in place. This standard Meter shall be tested and calibrated periodically to ensure its accuracy within the limits required by these rules and regulations. In any event, such test shall be made at least once every sixty (60) days while the standard Meter is in use and a record of such tests shall be kept by the utility.
 5. All Meters tested in accordance with these rules for periodic or complaint tests shall be tested in the condition as found in the Customer's service prior to any alteration or adjustment in order to determine the average Meter error. Tests shall be made at the intermediate and maximum rates of flow and the meter error shall be the algebraic average of the errors of the two (2) tests.
 6. Upon completion of adjustment and test of any water Meter under the provisions of these rules, the Company shall affix thereto a suitable seal in such a manner that adjustment or registration of the Meter cannot be changed without breaking the seal.
 7. Company shall maintain records of at least the last two (2) tests made of any Meter. The record of the Meter test made at the time of the Meter's retirement shall be maintained for a minimum of six (6) months. Test records shall include: (a) the date and reason for the test; (b) the reading of the Meter before making any test; (c) the accuracy "as found" at each rate of flow; (d) the accuracy "as left" of each rate of flow; and (e) in the event test of the Meter is made by using a standard Meter, the Company shall retain all data taken at the time of the test in sufficiently complete form to permit the convenient checking of the test methods and the calculations.

I. Billing:

1. The bill form used shall show: (a) the name of the Company; (b) the reading of the Meter at the beginning and at the end of the period for which the bill is rendered; (c) the dates on which the Meter was read at the beginning and end of the billing period; (d) the number and kind of units metered; (e) the gross and/or net amount of the bill; (f) the date by which the Customer must pay the bill in order to avoid any penalty; (g) a distinct marking to identify an estimated bill; (h) any conversions from meter reading units to billing units; and (i) the main office address.

J. Terms and Conditions of Billing And Payment

1. At a metered Premise, water sold shall be based on Meter measurement. Meters shall be scheduled to be read at not greater than quarterly intervals. The Company shall have the option to issue interim estimated monthly bills to Customers whose Meters are read bi-monthly. Estimated bills shall not be less than a minimum bill as prescribed in the Company's current tariffs.
2. At an unmetered Premise, water sold shall be a flat charge as stated in the Schedule of Rates and Charges.
3. Private Fire Protection Service charges shall be payable quarterly in advance.
4. Special charges shall be payable on demand.
5. All bills for service are due on or before the due date printed on the bills and considered delinquent if not paid by such date. The due date will be at least twelve (12) days after the postmarked date of the bill, if mailed, or the date of delivery if delivered by other means.
6. Customers are responsible for providing the Company with their correct addresses. Failure to receive bills will not release Customer from payment obligations.
7. The use of water by the same Customer at different Premises or localities will not be combined for billing.
8. Company may not send a customer two successive estimated bills, except due to extenuating circumstances. The Company may estimate the bill of any Customer for good cause including, but not limited to: request of Customer; inclement weather; labor or union disputes; inaccessibility of a Customer's Meter; other circumstances beyond the control of the Company or its agents and employees; and, a billing period with a varying Meter reading schedule; or the Company may render an estimated bill when a Meter is found to be not registering. In such cases, the Company shall estimate the charge for the water used by averaging the amount registered over a similar period preceding or subsequent to the period of nonregistration or for corresponding period in previous years, adjusting for any changes in the Customer's usage.

9. The Company may include charges for special services with charges for water service on the same bill if such charges are identified.

K. Disputed Bills

1. When a Customer disputes a bill, the Company will not terminate service for nonpayment so long as the Customer: (i) pays the undisputed portion of the bill, (ii) pays all future bills by the due date, and (iii) enters into bona fide discussions with the Company to settle the dispute.
2. In instances where the Customer and Company cannot agree as to what portion of a bill is undisputed, it shall be sufficient that the Customer pay an amount equal to their average bill for the twelve (12) months immediately preceding the disputed bill. In those cases where the Customer shall pay an amount equal to 1/12 of the estimated annual cost of service.
3. If the Company and the Customer arrive at a mutually satisfactory settlement of a disputed bill, the Company may enter into a settlement agreement providing for payment of the outstanding balance in installments over a reasonable period of time. Such an agreement shall be limited to the bill in dispute or the delinquent account.
4. A settlement agreement may be in writing and signed by the Customer or their representative and an authorized representative of the Company. A settlement reached by telephone may be confirmed by the Company in writing and mailed to the Customer, with instructions to sign a confirming copy and return it to the Company.
5. The Company shall not be required to enter into concurrent settlement agreements relating to the same service account.
6. The Company shall not be required to enter into a subsequent agreement with a Customer who defaults upon the terms and conditions of a previous agreement entered into within the previous twelve (12) months.
7. If the Customer fails to comply with the terms and conditions of a settlement agreement, the Company may discontinue service without further notice to the Customer.
8. If agreement cannot be reached on settlement of the dispute, the Customer may register their dispute with the Commission.

L. Adjustments to Bills

1. Service bills which are incorrect due to Meter or billing errors shall be adjusted in accordance with Commission Rules and to the known date of error or one (1) year, whichever is shorter.

2. Whenever a Meter in set service is tested and found to have over registered more than two percent (2%), the Company shall adjust the Customer's bill for the excess amount paid. If the time at which the error first developed or occurred can be definitely determined, the estimated amount of over-charge is to be based thereon.
3. Adjustment for leaks may be given as determined by the Company.

M. Denying or Discontinuing Service

1. The Company may refuse new wastewater service unless a Customer agrees in writing to a "Subscription Service Contract" that would allow either:
 - i. The Company to install and have exclusive right to use a cutoff valve in the water line between the water Meter and the Premises (or in Customer's water line where no Meter exists) in accordance with both the rules and regulations of the Company, as found in the tariff approved by the Commission, and this rule; or
 - ii. The Company to execute an agreement with a water provider to terminate water services. If the water service is discontinued based on an agreement between a water service provider and the Company, this agreement shall be submitted and on file with the Commission prior to any termination of water service in accordance with its provisions so that each Customer is treated in a just and reasonable manner.

2. Discontinuance Upon Customer's Request

1. The Customer shall notify the Company at least three (3) days in advance of the desired termination day and shall remain responsible for payment of all service until service is terminated pursuant to such request. The Company shall terminate service within three (3) working days of the requested termination date. The Customer shall not be liable for any service rendered to such address or location after the expiration of these three (3) days.
3. Termination Without Customer's Request
 1. The Company may deny or disconnect service without request by the Customer and without prior notice only:
 - i. If a condition dangerous or hazardous to life, physical safety or property exists; or

- ii. Upon order by any court, the Commission or other duly authorized public authority; or
 - iii. If fraudulent or unauthorized use is detected and the Company has reasonable grounds to believe the affected Customer is responsible for such use; or
 - iv. If the Company's regulating or measuring equipment has been tampered with and the Company has reasonable grounds to believe that the affected Customer is responsible for such tampering; or
 - v. If a Customer violates the terms of a settlement agreement described in Rule K, Disputed Bills; or
 - vi. Where the Customer's water service line or inside piping may, in the opinion of the Company, cause a cross-connection with non-potable water or otherwise jeopardize the health and safety of other Customers of the Company's facilities; or
 - vii. For violation of any of these Rules and Regulations on file with and approved by the Commission, or for any condition which adversely affects the safety of the Customer or other persons, or the integrity of the Company's delivery system.
2. The Company may discontinue Private Fire Protection Service immediately after written notice to such Customer and the appropriate Fire Department for leakage within such Private Fire Protection Service system and until such leaks are repaired.
3. In all other instances, the Company, upon providing the Customer with seven (7) days prior written notice may disconnect service for any of the following reasons:
 - i. The Customer fails to repair any leak in the Customer Service Pipe or other plumbing fixtures.
 - ii. The Customer vacates the Premises or fails to pay their bills or other charges related to their service installations or facilities in accordance with these rules and the Company's rate schedules, or otherwise violates any of these rules.
 - iii. Nonpayment of a service bill based on estimated consumption after the estimated Meter reading has been verified.
 - iv. The Customer fails to provide free and non-hazardous access to the Premises and Meter so that the Company's representatives may make Meter readings and necessary inspections and maintain, replace or remove the Meter, or fails to maintain Customer-owned meter settings. including pits and vaults.

- v. The Customer installs a new service pipe and other fixtures or alters or removes an existing service pipe or other fixtures, including the Meter, without the Company's consent.
 - vi. The Customer fails to remedy a condition or use on their Premises which, in the Company's engineering judgment, endangers the Company's distribution system.
 - vii. Misrepresentation of identity of Applicant for the purpose of obtaining water service.
 - viii. A Customer selling or providing service to other Premises not specifically included in the accepted application.
 - ix. Where two or more Premises are supplied through a single Service Pipe, any violation of the Rates, Rules, Regulations and Conditions of Service of the Company shall be deemed a violation as to all, and the Company may enforce compliance with these rules and regulations by discontinuing service. Such action, however, will not be taken until the Customer not in violation has been given reasonable notice to acquire a separate Company Service Pipe.
 - x. The Customer fails to pay for any sewer service charges and discontinuance of water service is duly authorized by the appropriate governmental unit.
 - xi. A Customer occupies a Premises already receiving water service without making application and fails to pay for water service used prior to the Company accepting such Customer's application.
4. When a prospective Customer is refused service, or an existing Customer has service disconnected under the specific provisions included in the Company's tariff approved by the Commission, the Company shall notify the Customer or prospective Customer promptly of the reason for refusal. The notification shall include an explanation of the Commission's dispute resolution process found in Rule 1220-01-03. A copy of such notification or other documentation shall be sent within five (5) business days to the local county health department and the Commission. If service is disconnected using a water shut-off valve, the utility is not required to notify the county health department.
5. Prohibited Disconnection
1. Except as otherwise provided in subsection M-1 and M-2, the Company shall postpone disconnection of Residential Service for thirty (30) days if, prior to the disconnect date specified in the disconnect notice, the

Customer provides the Company a medical statement from a licensed physician or public health official stating that disconnection would be a serious and immediate threat to the health or safety of a designated person in the household of the Customer.

2. The Company may not disconnect service to the Customer:
 - i. Due to nonpayment for service by a previous occupant of the Premises to be served.
 - ii. Upon failure to pay for goods or services not approved by the Commission.
 - iii. Upon failure to pay for concurrent service received at a separate Premises. However, if Service is discontinued or terminated at the separate Premises, any unpaid balance may be transferred to the other account on the next regular billing.
 - iv. Upon failure to pay for a different class of service received at the same or different locations: or
 - v. Upon failure to pay for service provided in the name of another Customer.
3. If a Customer proceeds with a complaint before the Commission pursuant to Commission Rules and complies with Rule K Disputed Bills.
6. Notice and procedure for Involuntary Disconnection
 1. Except as otherwise provided in Section M-2, service to any Customer shall not be disconnected for a violation of any rule or regulation of the Company or for the nonpayment of a bill, except after seven (7) days prior written notice to such Customer.
 2. The Company may discontinue service to a Customer on the date specified in the notice of discontinuation. or within a reasonable time thereafter, only between the hours of 8:00 a.m. and 4:00 p.m.
 3. Service shall not be discontinued on a day, or a day immediately preceding a day, when the services of the Company are not available to the general public for the purpose of reconnecting discontinued water service.

N. Reconnection of Service After Discontinuance

1. When service has been discontinued because of violations of the Rates, Rules, Regulations and Conditions of Water Service or because of nonpayment, a reconnection charge will be made as set forth in the schedule of the rates and charges of the Company.
2. The Company will reconnect service within the one (1) working day after it is requested provided:

1. The conditions, circumstances or practices which caused the disconnection have been corrected;
 2. Satisfactory settlement of all delinquent charges owed the Company by the Customer authorized by these rules has been made; and
 3. A responsible person is present in the Premises to see that all water outlets are closed to prevent damage from escaping water.
3. No Customer whose service has been discontinued by the Company shall re-establish service or cause service to be re-established except by the Company.

O. Modifications of Facilities at Customers Expense

1. If a Customer requests for their convenience, or by their actions requires, that the Company's facilities be relocated or modified, compatible with water utility construction practices, the Company will require reimbursement for the full cost of performing such service.
2. Where such changes become necessary due to altered or additional use on the Customer's part, such as the causing of pressure fluctuations which affect service to other Customers or damage to the Company's system, the Customer shall bear the cost of such changes in the facilities in question.

P. Requirements for Valves and Other Devices

1. Check valves, relief valves, flush valves and vacuum breakers required or recommended by this rule must be installed and maintained by, and at the cost and expense of the Customer.
2. Check and relief valves will be required for Customers having boilers, hot water heaters (heating systems) connected directly or indirectly with the Distribution Mains of the Company. The check valve must be in the supply pipe to any heating system and a relief valve between the check valve and heating system.
3. As a precaution against collapse of boilers, a vacuum valve should be installed in the steam line in case the water supply is interrupted.
4. The Company is not responsible for accidents or damages resulting from imperfect action or failure of check, relief or vacuum valves or failure of the Customer to provide necessary safety devices.
5. Any Customer desiring or requiring a pressure reducing device for water service to their Premises shall install and maintain such device at their cost and expense.

Q. Plumbing Regulation and Work

1. All plumbing work shall be done in accordance with the plumbing code of the Governmental Unit or units applicable in the Company's service area and/or regulations adopted by any duly constituted board or commission having Jurisdiction.
 2. All plumbing work connected to the Company Distribution Mains shall be submitted for Company inspection before being covered.
 3. If the Company determines plumbing work to be defective, though not necessarily in direct violation of these rules and regulations, the Company may insist it be corrected before water service is initiated.
 4. Except where the plumbing is a simple extension or additional fixture on a service in use, the plumber shall turn off the water after completion testing.
 5. No plumber, or any other person, shall initiate water service without permission from the Company.
 6. No plumber, or any other person, shall connect to the Company Distribution Main or to any service pipe or extend pipe to any Premises for the purpose of securing a supply of water until application has been made and accepted by the Company as provided in these Rates, Rules, Regulations and Conditions of Water Service.
- R. Cross Connections
1. A cross-connection is any physical connection whereby the Company's public water supply is connected with any other water supply, whether public or private, either inside or outside of any building or buildings, in such manner that a flow of water into the Company's public water supply is possible either through the manipulation of valves or because of ineffective check or back-pressure valves, or because of any other arrangement.
 2. By-pass arrangements, jumper connections, removable sections, swivel or change-over devices, and other temporary or permanent devices through which, or because of which, backflow can occur, are considered to be cross-connections.
 3. No cross-connection will be permitted unless an acceptable form of protection against contamination by backflow into the water distribution system is provided. An acceptable form of protection is one which meets the approval of the Tennessee Department of Health, or any successor agency or organization, and the local regulating health agency. The required protective device or system shall be provided and installed by the Customer and maintained by him in good working condition at their own cost and expense and shall be subject to the inspection, Testing, and approval of the Company before being placed in service, and at such times thereafter as may be deemed necessary by the Company.

4. Any cross-connection in violation of this rule shall immediately be removed or corrected in a manner acceptable to the Tennessee Department of Health, or any successor agency or organization and the local regulation health authority, and the Company. Failure to do so may result in discontinuance of water service without notice.
5. The Customer Service Pipe and all connections and fixtures attached on a Customer's Private Fire Protection Service system shall be subject to the inspection of the Company to determine compliance with its cross-connection rule before water will be turned on, and all Premises receiving a supply of water and all Service Pipes, Meters and fixtures, including any and all fixtures within the Premises, shall at all reasonable hours be subject to inspection by any duly authorized employee(s) of the Company.

S. Extension Plan

1. Water

1. This rule shall govern the extension of mains by the Company within its certified area where there are no water mains.
2. Upon receipt of a written application for a main extension, the Company will provide the applicant(s) an itemized estimate of the cost of the proposed extension. This estimate shall include the cost of all labor and materials required, including valves, fire hydrants, booster stations, storage facilities, reconstruction of existing mains (if necessary), jack and bore, and the direct costs associated with supervision, engineering, permits, and bookkeeping. The estimate will not include unanticipated costs such as rock excavation.
3. Applicant(s) shall enter into a contract with the Company for the installation of said extension and shall tender to the Company the amount determined in subsection 2 above. Any applicable New Service Connection Fee will become due after the cost incurred by the Company has been ascertained and as specified in the Schedule of Service Charges. The contract may allow the Customer to contract with an independent contractor for the installation and supply of material, except that mains of twelve (12") or greater diameter must be installed by the Company, and the reconstruction of existing facilities must be done by the Company.

4. If a developer contracts with the Company for a main extension and agrees to pay the full cost of the extension, including all labor, materials, and other associated costs, the developer will not be entitled to any refunds. These main extensions will remain the property of the Company, and the developer will have no claim to refunds for future connections or extensions.
5. The cost to single-family residential applicant(s) connecting to a main extension for which other applicant(s) paid an amount determined in subsection 2, above, subject to subsequent adjustment for actual cost, shall be as follows:
 - i. For single-family residential applicant(s) applying for service in a platted subdivision, the Company shall divide the actual cost of the extension by the number of lots abutting said extension to determine the per lot extension cost. When counting lots, corner lots which abut existing mains shall be excluded.
 - ii. For single-family residential applicant(s) applying for service in areas that are unplatted in subdivision lots, an applicant(s) cost shall be equal to the total cost of the main extension divided by the total length of the main extension in feet times one hundred (100) feet.
 - iii. For industrial, commercial, or multifamily residential applicants, the cost will be equal to the amount calculated for single-family residence in subsection 5(i) and 5(ii) above, multiplied by the flow factors of the applicants' meter. The flow factors of the various sizes of meters are as follows:

Meter Size	Flow Factor
5/8"	1.0
3/4"	1.0
1"	1.25
2"	2.9
4"	14.0

6. Refunds of funds paid by applicant(s) outside of developers for any estimated costs or actual costs of a main extension shall be made to such applicant(s) as follows:
 - i. Should the actual cost of the extension be less than the estimated cost, the Company shall refund the difference to the applicant(s) as soon as the actual cost has been ascertained.
 - ii. During the first five (5) years after the main extension is completed, the Company will refund to the applicant(s) who paid for the extension the money collected from applicant(s) in accordance with subsection 5 above. The refund will be paid within a reasonable time after the money is collected.
 - iii. The sum of all refunds to any applicant shall not exceed the total amount which the applicant(s) has paid.
7. Extensions made under this rule shall be and remain the property of the Company.
8. The Company reserves the right to further extend the main and to connect mains on intersecting streets and easements. Connecting new Customers to such further extensions shall not entitle the applicant(s) paying for the original extension to a refund for the connection of such Customers.
9. Extensions made under this rule shall be of Company-approved pipe sized to meet water service requirements. If the Company chooses to size the extension larger in order to meet the Company's overall system requirements, the additional cost caused by the larger size of pipe shall be borne by the Company.

No interest will be paid by the Company on payments for the extension made by the applicant(s).
10. If extensions are required on private roads, streets, through private property, or on private property adjacent to public right-of-way, a proper deed of easement must be furnished to the Company without cost to the Company, before the extension will be made.

2. Sewer

1. Collecting sewers will be extended within the Company's certificated service area, at the applicant's cost, if service is requested by the applicant at a location where facilities do not exist (the "applicant" is sometimes referred to in this rule as the "original applicant"). The applicant shall enter into a contract with the Company. The applicant may choose to have the Company perform all work under the terms and conditions of this tariff or have a private contractor perform the work under the terms and conditions this tariff. For purposes of this rule, an extension could include, in addition to a collecting sewer, one or more pump station or treatment plant facilities, as necessary to provide the service.
2. The pipe used in making extensions shall be of a type and size which will be reasonably adequate for the area to be served. Such determination as to size and type of pipe shall be left solely to the judgment of the Company. If the Company desires a pipe size, lift station, treatment plant, or any other facility larger than reasonably required to provide service to the applicant, the additional cost due to larger size shall be borne by the Company.
3. The Company will extend collecting sewers for the applicant under the following terms and conditions:
 - i. Upon receipt of written application for service, the Company will provide the applicant an itemized estimate of the cost of the proposed extension. Said estimate shall include the cost of all labor and materials required, including reconstruction of existing facilities if necessary, jack and bore and the direct costs associated with supervision, engineering, permits, and bookkeeping.
 - ii. The applicant shall enter into a contract with the Company for the installation of said extension and shall tender to the Company a contribution-in-aid-of-construction equal to the amount determined above, plus any appropriate fees as provided in the Schedule of Rates or the Schedule of Service Charges.

- iii. If, as a result of reasonably unforeseen circumstances, the actual cost of the extension exceeds the estimated cost of the extension, the applicant shall pay the additional cost.
4. When the applicant elects to construct an extension, the Company will connect said extension to its existing collecting sewers under the following terms and conditions:
 - i. Applicant shall enter into a contract with the Company which provides that the applicant construct said collecting sewers and/or other facilities to meet the requirements of all governmental agencies and the Company's rules. Plans for the extension shall be submitted to the Company for approval prior to construction. Applicant's choice of construction contractor is subject to approval by the Company. Applicant shall contribute said facilities to the Company with a detailed accounting of the actual cost of construction, and contribute to the Company the estimated reasonable cost of the Company's inspection.
 - ii. The Company, or its representative, shall have the right to inspect and test the extension prior to connecting it to the existing collecting sewers and acceptance of ownership.
 - iii. Connection of the extension to existing Company collecting sewers shall be made by, or under direct supervision of, the Company or its representative.
 - iv. The Company shall have the right to refuse ownership and responsibility for the sewer extension until applicant has met the contractual obligations as provided in subsection 4(i).
5. If a developer contracts with the Company to install the sewer extension and agrees to pay the full cost of the extension, including all labor, materials, and associated costs, the developer will not be entitled to any refunds. These sewer extensions will remain the property of the Company, and the developer will have no claim to refunds for future connections or extensions.

6. The cost to additional applicants connecting to the sewer contributed by the original applicant shall be as follows:
 - i. For a single-family residential applicant applying for service in a platted subdivision, the Company shall divide the actual cost of the extension, including income tax impact if any, by the number of lots abutting said extension to determine the per lot extension cost. When counting lots, corner lots which abut existing sewers shall be excluded.
 - ii. For a single-family residential applicant requesting service to areas that are not platted in subdivision lots, the applicant's cost shall be equal to the total cost of the extension times 100 feet divided by the total length of the extension in feet.
 - iii. For an industrial, commercial, or multi-family residential applicant, the cost will be equal to the amount calculated for a single-family residence in subsection 4(i) or 4(ii), as appropriate, multiplied by a water usage factor. The water usage factor shall be determined by dividing the average monthly usage in gallons by 7,000 gallons, but shall not be less than 1.

7. Refunds of contributions shall be made to the original applicant as follows:
 - i. Should the actual cost of an extension constructed by the Company actual costs for inspection by the Company be less than the estimated cost, the Company shall refund the difference as soon as the actual cost has been ascertained.
 - ii. During the first five (5) years after the extension is completed, the Company will refund to the original applicant who paid for the extension monies collected from additional applicants in accordance with subsection 4 above.
 - iii. The sum of all refunds to the applicant shall not exceed the total contribution, including income tax and inspection costs associated with the extension, which the applicant has paid.

- iv. If two or more entities are considered an original applicant, the refund shall be distributed to each entity based upon the percentage of the actual extension cost contributed by each entity.
8. Any extension made under this rule shall be and remain the property of the Company in consideration of its perpetual upkeep and maintenance.
9. The Company reserves the right to connect additional extensions to a collecting sewer contributed by the applicant. The connection of new customers to such additional extensions shall not entitle the applicant to any refund.

T. Interruptions In or Curtailment Of Water Supply

1. The Company reserves the right at any time to shut off the water in the Distribution Mains in case of accident or emergency, or for the purpose of making connections, extensions, improvements, alterations, repairs, changes, or for other proper business or utility reasons, and may restrict the use of water to reserve a sufficient supply in its reservoirs for public fire service or other emergencies whenever the public welfare may so require.
2. When, in the judgment of the Company, sufficient supplies of water are not available to meet existing and anticipated demands or to preserve and replenish water storage in amounts sufficient to provide fire protection, the Company shall have the right to restrict, limit, curtail or interrupt water service to any Customer or Customers. The Company shall not be liable for any damage by reason of any such restriction, limitation, curtailment or interruption.
3. During any period of Company imposed restricting or curtailing water service, the Company shall not supply new service or additional service to any Customer, except for residential Premises occupied for which application for service has previously been made.
4. When feasible, prior to the application of this rule, the Company shall use its best efforts to inform the public of the emergency nature of its water supply situation and request voluntary curtailment of water usage by all Customers.
5. The Company shall endeavor to maintain a supply of water to provide for the sanitary and health requirements of its residential and human needs Customers (hospitals, medical centers, nursing homes, and apartments) and

its fire protection service. The Company shall first order curtailment of usage by all Customers for sprinkling, decorative fountains, swimming pools and other similar nonessential usage. Thereafter, the Company shall curtail or limit on a pro rata basis water usage to all Customers whose average daily volume of water purchased during the preceding calendar year exceeded 100,000 gallons for any billing month during such period; provided, the Company reserves the right to order temporary, limitation or interruption of water usage for any Customer without regard to any Priority of Service when in its judgment such temporary, limitation or interruption is necessary to forestall injury to life or property. If any Customer fails to comply with any mandatory restriction, limitation or interruption of Service imposed under this paragraph (d), the Company may discontinue service to such Customer.

6. Company notice to Customers may be given by written notice or it may be given orally by any authorized agent of the Company. The notice shall be considered given when actually communicated in the case of oral notice or deposited in the United States Mail, if written.
- U. Interruptions in Wastewater Service: Where Company finds that through no fault of the Customer the Customer's wastewater service is interrupted and remains out of service in excess of twenty-four (24) hours after the Customer has notified the Company of the interruption, the Company shall refund to that Customer the pro-rata portion of the month's charges for the period of days during which the service was not provided. The Company may refund the amount owed as a credit toward the Customer's subsequent bill for service.
- V. Responsibility of Company
1. Under normal conditions of use of water, the pressure at a Customer's service connection shall be not less than twenty-five (25) psig. Pressure outside the limits specified will not be considered a violation when the variations: (a) arise from the action of the elements; (b) are infrequent fluctuations not exceeding five (5) minutes' duration; (c) arise from service interruptions; and (d) are from causes beyond the control of the utility.
 2. The Company will undertake to use reasonable care and diligence to prevent and avoid interruptions and fluctuations in water service and to maintain reasonable pressure on the distribution system, but it cannot and does not guarantee to furnish at all times any given quantity for fire or general purposes or that interruptions or fluctuations in service will not occur. In the event there occurs any excess or deficiency in the pressure, volume or supply of water for any cause whatsoever, other than willful default or neglect on the part of the Company, the Company shall not in any way or under any circumstances be

- held liable or responsible to any person, firm, corporation or Governmental unit for any resulting loss or damage.
3. Unless due to willful default or neglect on the part of the Company, the Company shall not be liable for any damages resulting from the breaking of mains or service pipes, interruption of the supply of water or cutting off water for necessary repairs or maintenance, or from any other act, omission or event.
 4. The Company shall in no event be responsible for maintaining any service line owned by the Customer, nor for damages created by sewage escaping therefrom, nor for defects in lines or fixtures on the property of the Customer. The Customer shall at all times comply with all regulations of the Commission, and of the Company, relating to the service lines and shall make all changes in his line required on account of grade or otherwise. All leaks in any pipe or fixture on the Premises of the Customer shall be immediately repaired. If the Customer fails to repair any such leak, the service may be discontinued until repairs are made.
 5. The Company shall not be considered an insurer of property or persons. or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise. The Company agrees only to furnish and provide such supply of water as shall then be available.

W. Ownership of Property

1. Water
 1. Unless otherwise agreed to, all pipe, fittings, equipment, Meters or other fixtures installed at the expense of the Company shall at all times be and remain the property of the Company and may at any time during reasonable hours be inspected by the Company and/or removed by it for repairs or replacements, or upon the Discontinuance of Service.
2. Sewer
 1. For Customers with gravity connections, the Customer shall own and maintain all piping within the Premises and exterior piping and service lines.
 2. For Customers with Grinder Pumps, the Customer shall own and maintain all piping within the Premises and external piping connecting to the Grinder Pump. The Company shall maintain the grinder pump and service line and the Customer shall be responsible for the cost of repair and maintenance of the grinder pump and service line. The Customer shall be responsible for furnishing and maintaining electrical power to the grinder pump.

**DR 7 – PERFORMANCE BOND – SUGAR
LOAF ROAD**

Power of Attorney

KNOW ALL PERSONS BY THESE PRESENTS: that Indemnity National Insurance Company, a Mississippi corporation, (hereinafter the "Company"), does hereby constitute and appoint: *****Nicole M. Campbell, Brianna Taylor Stephenson***** of *****Parrot Surety Services, LLC***** to be its true and lawful Attorney-in-Fact, with full power and authority hereby conferred to sign, seal, and execute on its behalf surety bonds or undertakings and other documents of a similar nature issued in the course of its business up to a penal sum not to exceed *****Ten Million Dollars (\$10,000,000.00)***** each, and to bind the Company thereby as fully and to the same extent as if the same were signed by the duly authorized officers of the Company.

This appointment is made under and executed pursuant to and by authority of the following Minutes of Special Actions Taken by Written Consent of the Board of Directors, which is now in full force and effect:

Authorization to Appoint Attorneys-in-Fact and the Use of Facsimile Signatures and Facsimile Seals for the Purpose of Issuing Bonds:

RESOLVED: That the president or any vice president may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the Company to execute and deliver and affix the seal of the Company to bonds and related obligatory certificates and documents; and any one of said officers may remove any such attorney-in-fact or agent and revoke any power previously granted to such person, whether or not such officer appointed the attorney-in-fact or agent.

RESOLVED: That any bonds and related obligatory certificates and documents shall be valid and binding upon the Company, (i) when signed by the president, or any vice president, and sealed with the Company seal; or (ii) when duly executed and sealed with the Company seal by one or more attorneys-in-fact or agents pursuant to and within the limits of authority evidenced by the power of attorney issued by the Company to such person or persons a certified copy of which power of attorney must be attached thereto in order for such obligation to be binding upon the Company.

RESOLVED: That the signature of any authorized officer and the seal of the Company may be affixed to any power of attorney or certification thereof authorizing the execution and delivery of any bonds and related obligatory certificates and documents of the Company and such signature and seal then so used shall have the same force and effect as though manually affixed.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Indemnity National Insurance Company has been affixed thereto in Lexington, Kentucky this 22nd day of August, 2025.



Indemnity National Insurance Company

By Thomas F. Elkins
Thomas F. Elkins, President

State of Kentucky
County of Fayette

On this 22nd day of August, 2025, before me, a Notary Public, personally came Thomas F. Elkins, to me known, and acknowledged that he is President of Indemnity National Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Indemnity National Insurance Company thereto with the authority and at the direction of said corporation.



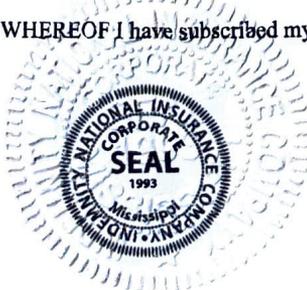
By Deborah A. Murphy
Notary Public

My Commission Expires 09/26/2029
Notary ID Number: KYNP34336

CERTIFICATE

I, James E. Hart, Secretary of Indemnity National Insurance Company, do hereby certify that the foregoing Power of Attorney is still in full force and effect, and further certify that the Minutes of Special Actions Taken by Written Consent of the Board of Directors are now in full force and effect.

IN TESTIMONY WHEREOF I have subscribed my name and affixed the seal of said Company. Dated this 30th day of September, 2025.



By James E. Hart
James E. Hart, Secretary

**SUBDIVISION
PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS: That we, COR 13 Construction Management, Inc. as principal and having an office and place of business at 1387 Heath Rd., Green Cove Springs, FL 32043 and Indemnity National Insurance Company authorized to do business in the State of Tennessee as Surety, are held and firmly bound unto the Sevier County Planning & Zoning Department as obligee, in the sum of Six Hundred Forty-Seven Thousand Eighty-Nine Dollars (\$647,089.00), lawful money of the United States of America, for which payment well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally firmly by these presents.

SIGNED, SEALED AND DATED THIS September 30, 2025

WHEREAS, COR 13 Construction Management, Inc. has entered into an agreement with the Sevier County Planning & Zoning Department as obligee, guaranteeing only that the Principal will complete all improvements as per the NPDES Permit at certain land known as Mouhourtis Property, 1415 Sugar Loaf Rd., Sevierville, TN 37876, improvements shall be completed on or before the date set forth in the agreement.

NOW, THEREFORE, the condition of this obligation is such, that if the Principal shall carry out all the terms of said agreement relating to the site improvements only and perform all the work as set forth therein all within the time set forth in said agreement, then this obligation shall be null and void, otherwise to remain in full force and effect.

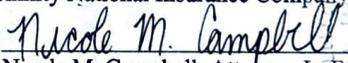
No party other than the obligee shall have any rights hereunder as against the Surety.

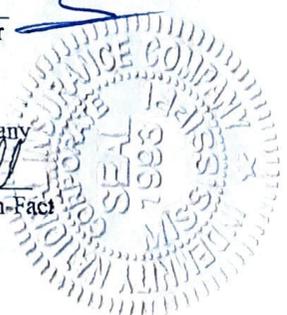
The aggregate liability of the Surety of the Bond obligation shall not exceed the sum thereof for any cause or reason whatsoever.

COR 13 Construction Management, Inc.

BY: 
Christopher Mouhourtis, Officer

Indemnity National Insurance Company

BY: 
Nicole M. Campbell, Attorney-In-Fact



PRINCIPALS ACKNOWLEDGMENT

INDIVIDUAL VERIFICATION

State of _____ County of _____

On this _____ day of _____, in the year 20_____, before me personally came

_____ to me known, and known to me to be the person(s) who is (are) described in and who executed the foregoing instrument, and acknowledges to me that he (they) executed the same.

(Signature and title of official taking acknowledgement)

PARTNERSHIP VERIFICATION

State of _____ County of _____

On this _____ day of _____, in the year 20_____, before me personally came

_____ to me known, and known to me to be the person who is described in and who executed the foregoing instrument, and acknowledges to me that he executed the same, as and for the act and deed of the said co-partnership.

(Signature and title of official taking acknowledgement)

CORPORATE VERIFICATION

State of Florida County of Clay

On this 6th day of October, in the year 2025, before me personally came

Christopher Mouhourtis to me known, who, being by me duly sworn, deposes and says that he resides in the City of Green Cove Springs, FL that he is the Officer of the COR 13 Construction Management, Inc., the corporation described in and which executed the foregoing instrument; that he knows the seal of the said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by the order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

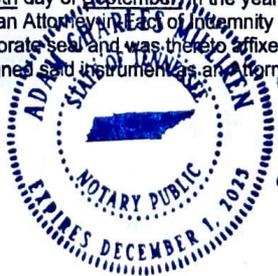


Kathy S Baker Notary Public
(Signature and title of official taking acknowledgement)

SURETY COMPANY ACKNOWLEDGEMENT

State of Tennessee County of Davidson

On this 30th day of September, in the year 2025, before me personally came Nicole M. Campbell, who, being by me duly sworn, did depose and say that he/she is an Attorney-in-Fact of Intermunity National Insurance Company and knows the corporate seal thereof; that the seal affixed to said instrument is such corporate seal and was thereto affixed by authority of the Power of Attorney of said Company, of which a Certified Copy is hereto attached, and that he/she signed said instrument as an Attorney-in-Fact of said Company by like authority.



Adria S. Wilkerson
Notary Public

LIMESTONE NOVs



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
Davy Crockett Tower
500 James Robertson Parkway, 9th 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 & 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, 6th Floor
Nashville, Tennessee 37243

Apr 15, 2025

Mr. Brad Thibault

Letter

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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, 9th 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 10th, 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 22nd 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 should you require additional documentation or clarification.

Sincerely,

Joe Johnson

Joe Johnson

CSWR – EHS Compliance Coordinator