

RE: Letter of Determination for CCN Requirement
Nguyen RV Park
3147 Fisk Road,
Cookeville, TN 38506

26-00018

To whom it may concern:

As the owner of the proposed RV Park, located at 3147 Fisk Road, Cookeville, TN 38506, I am requesting a letter of determination for the CCN requirement. Contained herein, please find the approved sewer plans, SOP application, and draft permit for the campground project, which includes 70 RV sites and 1 office building.

We assume full responsibility for the construction and permanent maintenance of a private sewer system. This system will be exclusively managed and maintained by the campground. The system will be used by registered guests and employees of the campground and will not be accessible to neighboring properties or the general public.

The responsibility of the campground for its private sewer system is binding and will run with the land; this responsibility shall apply to all subsequent property owners should the campground transfer ownership.

Should additional information be required, or if there are any questions, please feel free to contact me at the information provided below. I appreciate your time and consideration.

Best Regards,

Judy Nguyen
Owner
931-284-5526
peachtreeshorttermrental@gmail.com



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

Davy Crockett Tower, 9th Floor
500 James Robertson Parkway
Nashville, Tennessee 37243-1204

January 12, 2026

Mr. Kyler Layne, PE
e-copy: klayne@farmermorgan.com
Farmer Morgan
PO Box 592
Pikeville, TN 37367

Subject:

County: Putnam
Wastewater Project Number: 24.0712
Project: Nguyen RV Park

Dear Mr. Layne:

The Tennessee Department of Environment and Conservation, Division of Water Resources, acknowledges the receipt of your construction documents on September 12, 2024 with additional information received through January 5, 2026.

This letter serves as approval of construction of a 0.009175 MGD treatment facility composed of two ECOPOD reactors, drip irrigation system, and STEP collection system for an office and 71 RV slips.

The STEP collection system will consist of 10 STEP tanks, 4,744 linear feet of 4-inch sanitary sewer, and 866 linear feet of 2-inch low pressure sanitary sewer.

Approval is granted in accordance with certain requirements of the Water Quality Control (WQC) Act of 1977 and Regulations of the Water Quality Control Board. **On the coversheet(s) of the site's set of plans and specifications, an approval date and its expiration date will be stamped by the division. Any indication of tampering with the bound set of documents will be subject to investigation and prosecution.** One complete set of construction documents, bearing the official stamp, must be kept at the construction site.

Approval expires one year from the stamped approval date (January 12, 2026) unless construction is either underway or complete. Any request for extension must be made prior to this expiration date. Significant deviations from the approved plan documents must be submitted and approved in writing before such changes are made. Minor changes made during construction need not have prior written approval. Modifications, however, may be required by this Department should the changes be deemed inappropriate. It is advisable, therefore, to obtain prior approval in cases where the significance of the change is uncertain.

The Division of Water Resources is authorized to inspect the construction work to verify compliance with the approved plans and specifications, which are on the site. Therefore, the engineer shall notify our staff at the Cookeville Environmental Field Office by calling (931) 520-6688 before the start of construction.

TDEC's approval of this land application waste treatment system shall not be construed as creating a presumption of correct operation nor as warranting by the commissioner that the approved facilities will reach the designated goals. T.C.A. § 69-3-108(i). Similarly, TDEC's issuance of a state operating permit in no way guarantees that this land application system will function properly. Notwithstanding these approvals, owners and operators are required to ensure that operation of this system does not result in pollution of waters of the state, including groundwater.

Approval of these construction documents should not be construed as a permit for any activities related to this project. Activities which may require a permit under the WQC Act and Regulations include, but are not limited to, the following: streambank vegetation removal; creek crossing(s) for equipment or utility lines; construction within twenty (20) feet of a stream bank; construction in or near a marshy area or wetland, and/or land disturbance equal to or greater than one acre. Additionally, this approval does not authorize connection and use of sewer that will cause or contribute to collection system overflow or overload of receiving wastewater treatment facility.

The Cookeville Environmental Field Office should also be contacted for determinations regarding whether modification of the existing NPDES or SOP permit, an Aquatic Resource Alteration Permit (ARAP) and/or a National Pollutant Discharge Elimination System (NPDES) construction stormwater permit will need to be obtained prior to the beginning of construction of this project.

The Division's most recent *Design Criteria for Review of Sewage Works Construction Plans and Documents* is available on our website: <https://www.tn.gov/environment/permit-permits/water-permits1/plans-review-and-approval-for-sewage-works-construction-projects.html>.

To expedite matters, please reference the assigned wastewater project number **24.0712** on any future correspondence. If you have any questions, please feel free to contact Mr. Michael Bascom, EI at (423) 585-7879 or by email at Michael.Bascom@tn.gov.

Sincerely,



Angela Jones, PE, CPM
Manager, Engineering Services Unit

cc: Water-Based Systems File
Ms. Judy Nguyen, Owner, peachtreeshorttermrental@gmail.com
Mr. Brad Ulmer, TDEC-Environmental Manager 3, TDEC Division of Water Resources, Brad.Ulmer@tn.gov

NGUYEN RV PARK WASTEWATER TREATMENT STEP SEWER SYSTEM, COLLECTION AND DRIP DISPERSAL PLANS PUTNAM COUNTY, TN

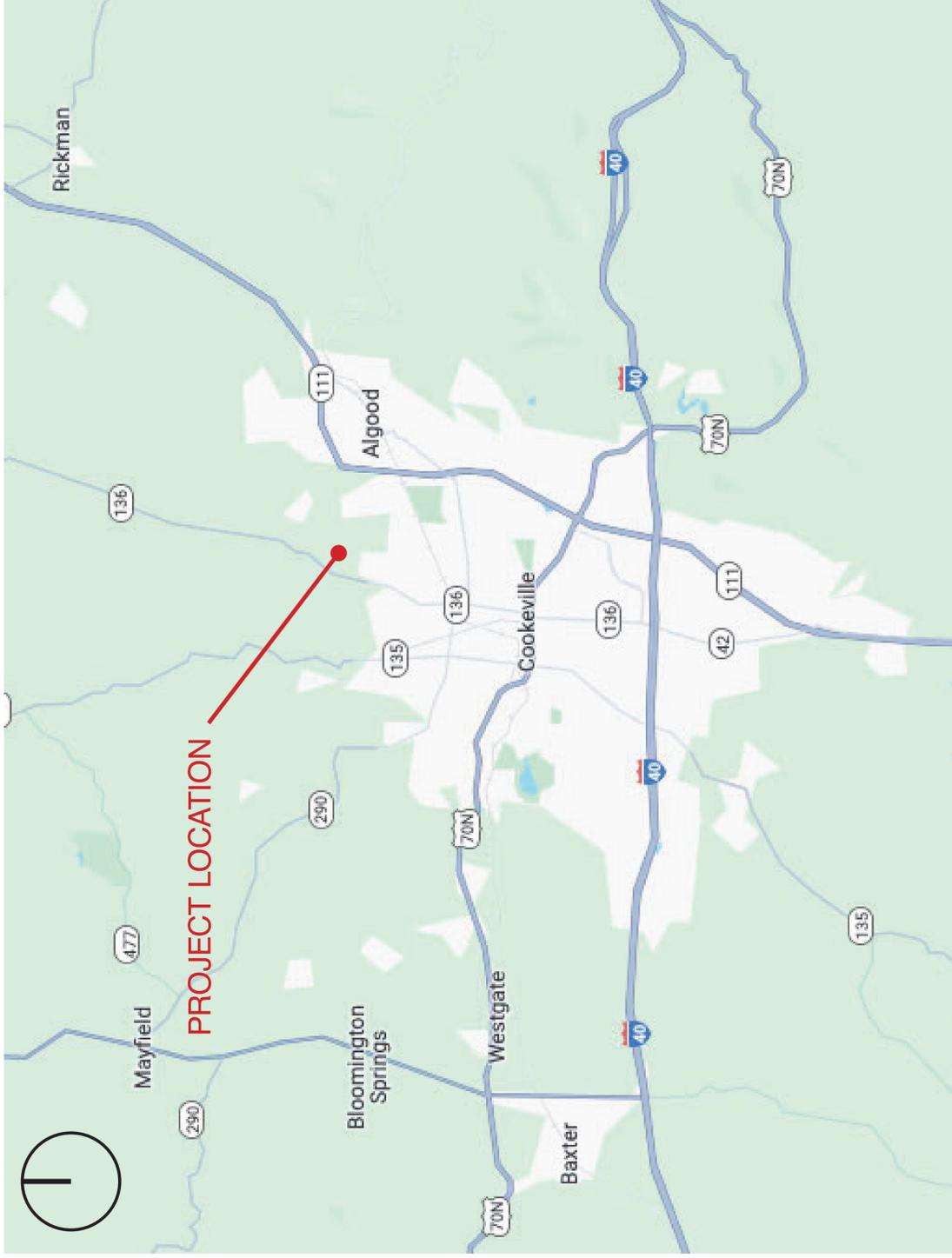
| | | |
|--------------|--------|------|
| TN. | Year | 2025 |
| FM Project # | 227101 | |



DESIGN DATA

Number of RV Slips Served: 71
 Design Flow/Lot: 125 GPD
 Number of Offices Served: 1
 Design Flow/Lot: 300 GPD
 Total Design Flow: 9,175 GPD
 Land Application Loading Rate: 0.2 GPD/S.F.
 Land Application Area Required: 1.05 Acres
 Drip Line Spacing: 5' O.C.

SOP - _____



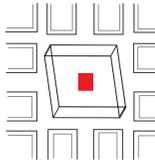
Index of Sheets

| Description | Sheet No. |
|------------------------|-----------|
| Title Sheet | 1.1 |
| Sewer Collection Plan: | 1.2 |
| Dispersal System Plan: | 1.3-1.4 |
| Treatment Site Plan: | 1.5 |
| Profile View: | 2.1-2.3 |
| Details: | |

CONTACTS

Engineer Firm:
 Farmer | Morgan
 441 Spring St.
 Pikeville, TN 37367
 (615)-761-9002
 Benjamin Farmer

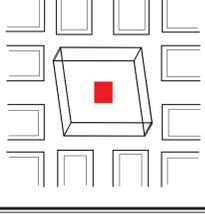
Owner:
 Owner Representative
 3147 Fisk Road
 Cookeville, TN 38506
 (417)-257-5578
 Rick Duke



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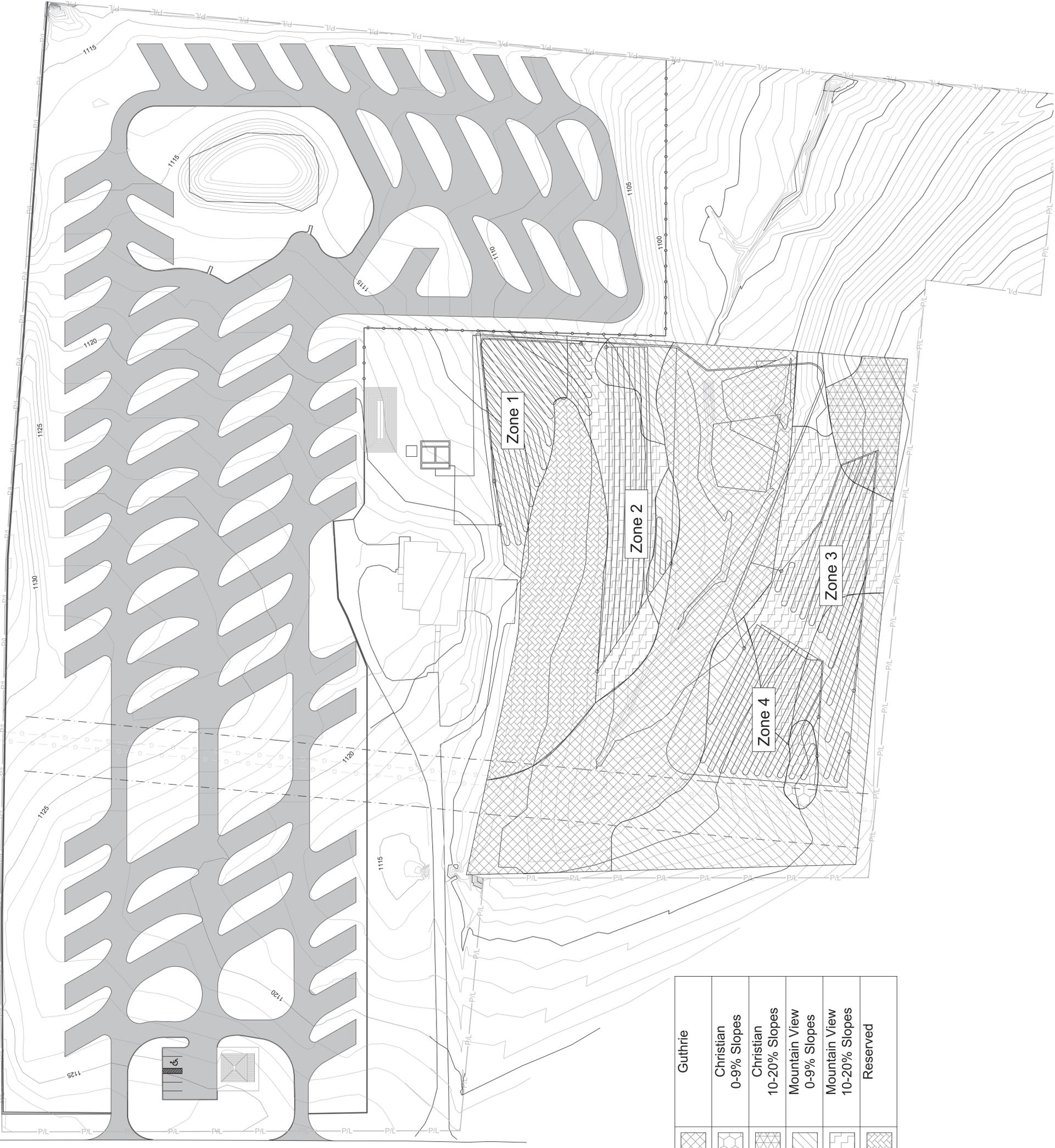
THE NGUYEN RV PARK
STEP SEWER COLLECTION SYSTEM
 PUTNAM COUNTY, TENNESSEE

Date: 09/10/2024
 Drawn By: KL
 Project: FM: 227101
 Revisions:
 (1) 11/11/2024
 (2)
 (3)

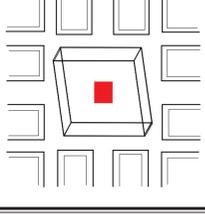
0 25 50 100
 SCALE: 1"=50'-0"

DISPERSAL SYSTEM

1.2



| | |
|--|--------------------------------|
| | Guthrie |
| | Christian 0-9% Slopes |
| | Christian 10-20% Slopes |
| | Mountain View 0-9% Slopes |
| | Mountain View 10-20% Slopes |
| | Reserved |



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THE NGUYEN RV PARK
STEP SEWER COLLECTION SYSTEM
PUTNAM COUNTY, TENNESSEE

Date: 09/10/2024
Drawn By: FM: 227101
Project: NTS
Revisions: (1) (2) (3)

Scale: N.T.S.
0 25 50 100

TREATMENT SYSTEM

1.3

TANK SIZES

| TANK | QTY | WIDTH (FT) | LENGTH (FT) | HEIGHT (FT) | SWD (FT) | VOLUME (GAL) |
|---------------------------|-----|------------|-------------|-------------|--------------------|----------------------------------|
| GREASE TRAP (BY OTHERS) | TBD | TBD | TBD | TBD | TBD | TBD |
| FLOW EQ | 1 | 25 | 4 | 10 | 1.5 MIN. 8.25 MAX. | 6,200 TOTAL 5,000 OPERATIONAL |
| ECOPOD TREATMENT SYSTEM | 2 | 12 | 14 | 10 | 8.5 | 10,700 EA 21,400 TOTAL |
| DOSING (DESIGN BY OTHERS) | 1 | 25 | 4.25 | 10 | 2.5 MIN. 8.25 MAX. | 6,600 TOTAL 4,600 OPERATIONAL |
| TOTAL CIP EXTERIOR | - | 27 | 26.25 | 11 | - | - |

ALL DIMENSIONS ARE INSIDE OF TANK UNLESS NOTED OTHERWISE.
EXTERIOR DIMENSIONS ARE BASED ON 12" THICK CAST-IN-PLACE CONCRETE WALLS. ACTUAL THICKNESS AND REINFORCING REQUIREMENTS SHALL BE PER STRUCTURAL ENGINEER OF RECORD REQUIREMENTS.

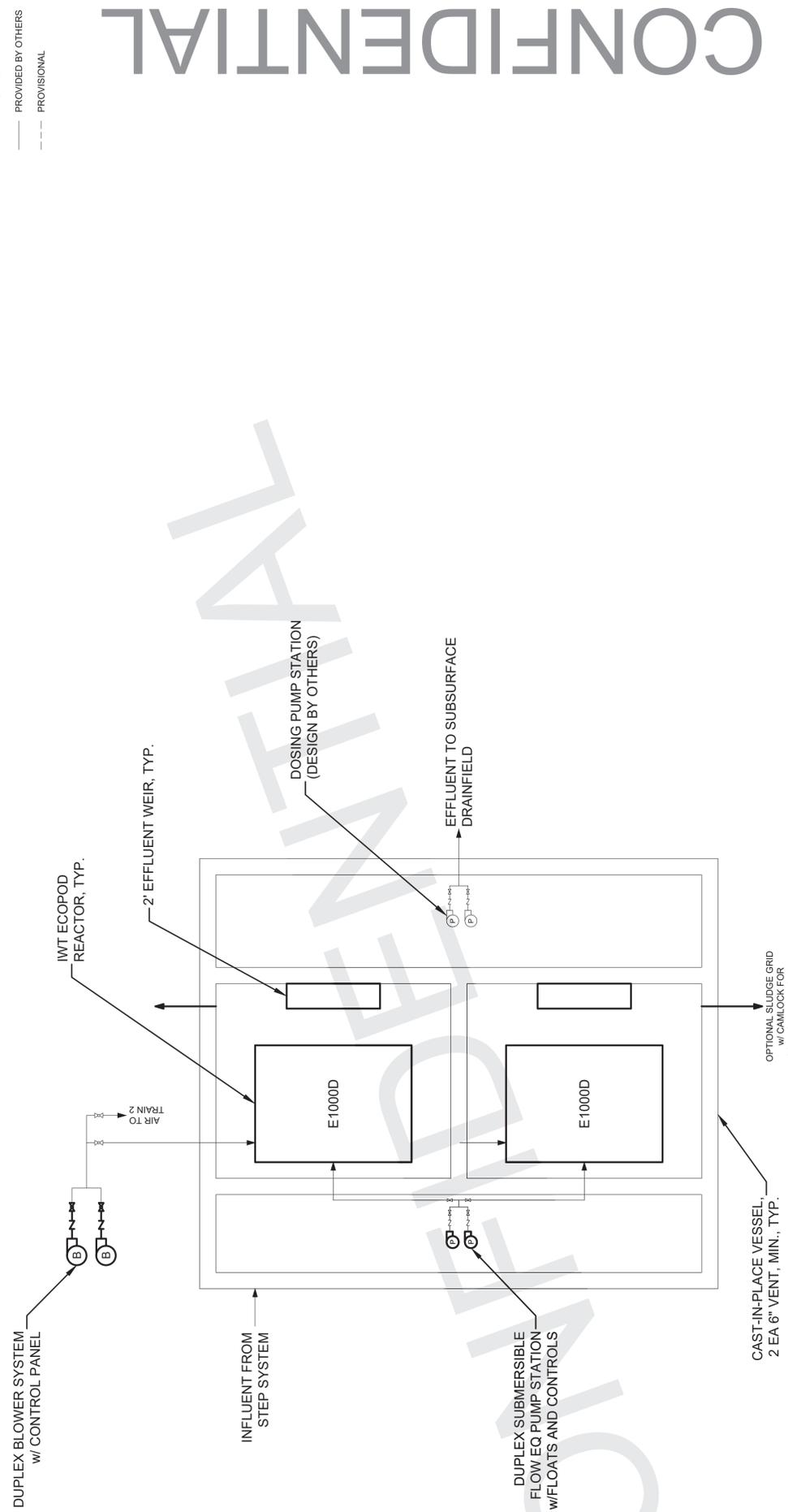
MOTOR LOADS

| DEVICE | QTY | CONCURRENTLY OPERATING | POWER (HP) | VOLTAGE (V) | FULL LOAD CURRENT (A) |
|--------------------------------|-----|------------------------|------------|-------------|-----------------------|
| FLOW EQ PUMP | 2 | 1 | 0.4 | 230V - 1PH | 4.5 |
| MAIN AIR BLOWER | 2 | 1 | 5 | 230V - 1PH | 23 |
| DOSING PUMP (DESIGN BY OTHERS) | TBD | TBD | TBD | TBD | TBD |

FLOW SUMMARY

| FLOW PARAMETER | GPD | GPM | M ³ /D |
|--------------------------|-------|-----|-------------------|
| AVERAGE DAILY FLOW (ADF) | 9,175 | 6.4 | 35 |

— PROVIDED BY IWT
- - - PROVIDED BY OTHERS
- - - - - PROVISIONAL



FLOW EQ
ECOPOD TREATMENT SYSTEM
DOSING (DESIGN BY OTHERS)

- PROCESS DIAGRAM NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUT(S) OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DESIGN EFFLUENT FLOW AND LOAD TO THE EFFLUENT WATER QUALITY DENOTED IN THE PROCESS SCHEMATIC SUMMARY.
 - CONCRETE TANK SIZES, TANK VOLUMES, AND OPERATIONAL VOLUMES ARE PRELIMINARY. CONCRETE TANK SIZES, TANK VOLUMES, AND OPERATIONAL VOLUMES ONLY. FINAL DESIGN VALUES SHALL BE ESTABLISHED BY THE ENGINEER OF RECORD.
 - SEE THE PROJECT SPECIFIC QUOTE FOR MORE INFORMATION REGARDING SCOPE OF SUPPLY AND CORRESPONDING TERMS AND CONDITIONS.
 - ENTIRE SYSTEM TO BE PROVIDED WITH CONTROL PANEL(S) FOR ALL EQUIPMENT.

- ☒ DIAPHRAGM VALVE
- ☒ GLOBE/NEEDLE VALVE
- ☒ BALL VALVE
- ☒ CHARACTERIZED BALL VALVE
- ◊ BALL CHECK VALVE
- ⊘ PLUG VALVE
- 1/1 BUTTERFLY VALVE
- ||| GATE VALVE
- ☒ 3-WAY VALVE
- ∟ CHECK VALVE
- ⊘ BLOWER
- ⊘ MECHANICAL PUMP
- ⊘ AIR LIFT PUMP
- ⊘ MIXER
- ⊘ FLOW METER
- ⊘ CHEMICAL DOSING PUMP
- ⊘ FILTER
- ⊘ ULTRAVIOLET DISINFECTION UNIT
- ⊘ BAR SCREEN
- ⊘ MECHANICAL BAR SCREEN
- ⊘ TABLET FEEDER
- ⊘ DISC FILTER

WASTELOAD SUMMARY:
 INFLUENT WASTELOAD AS PROVIDED BY ENGINEER OF RECORD:
 600 mg/L (46 LB/D) BOD₅
 600 mg/L (46 LB/D) TSS
 600 mg/L (46 LB/D) NH₃-N
 66 F (20 C) WATER TEMPERATURE (ASSUMED)

EFFLUENT TARGETS:
 30 mg/L BOD₅ 30-D AVERAGE
 30 mg/L TSS 30-D AVERAGE (ASSUMED)

ORGANIC LOADING:
 0.0011 LB BOD₅/D/FT² (6.3 g BOD₅/DM²) TO BOD REACTOR
 0.043 LB BOD₅/D/FT² (210 g BOD₅/DM²) TO BOD REACTOR

AERATION SYSTEM DESIGN:
 SOR: 50 LB O₂/D
 ECOPOD AIR DEMAND: 225 SCFM
 SITE ELEVATION: 1,120 FT AMSL
 MAXIMUM AIR TEMPERATURE: 115 F
 MINIMUM PROCESS AIR INLET FLOW: 254 ICFM
 MINIMUM SCOUR AIR INLET FLOW: 269 ICFM
 MINIMUM SCOUR AIR FLOW: 289 ICFM
 SELECTED BLOWER: GARDNER DENVER MODEL 4L @ 2.7 PSIG
 SELECTED MOTOR: 5 HP

CONFIDENTIAL

| REV# | DATE | INITIALS | DESCRIPTION |
|------|----------|----------|----------------------------|
| A | 04/15/24 | KAJ | REVISED PER OAGCC COMMENTS |

| | |
|--------------|------------|
| PROJECT NO. | 24-0111 |
| HORIZ. SCALE | N/A |
| VERT. SCALE | N/A |
| DATE | 04/11/2024 |
| DRAWN BY | KIS |
| DESIGNED BY | KAJ |
| DRAWING NO. | P1.0 |
| SHEET NO. | 01 of 03 |

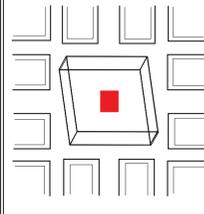
NGUYEN RV PARK WWTF
3147 FISK RD, COOKVILLE, TN 38506

INFILTRATOR WATER TECHNOLOGIES, LLC
4 BUSINESS PARK RD, OLD SAYBROOK, CT 06475
WWW.INFILTRATORWATER.COM
PHONE: (800) 221-4436 / EMAIL: INFO@INFILTRATORWATER.COM

PROCESS DIAGRAM NOTES: THIS DRAWING IS A PRELIMINARY DESIGN. IT IS THE USER'S RESPONSIBILITY TO VERIFY THE ACCURACY OF ALL INFORMATION AND TO DETERMINE THE APPLICABILITY TO A SPECIFIC PROJECT. THE USER ASSUMES ALL LIABILITY FOR THE USE AND/OR THE ENGINEER OF RECORD'S PROPERTY OF IWT. NO PART OF THIS DRAWING SHALL BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN PERMISSION OF IWT. THIS INFORMATION IS BASED ON SPECIFIC INFORMATION PROVIDED TO THE ENGINEER OF RECORD AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER OF RECORD.

PRELIMINARY

PROCESS DIAGRAM



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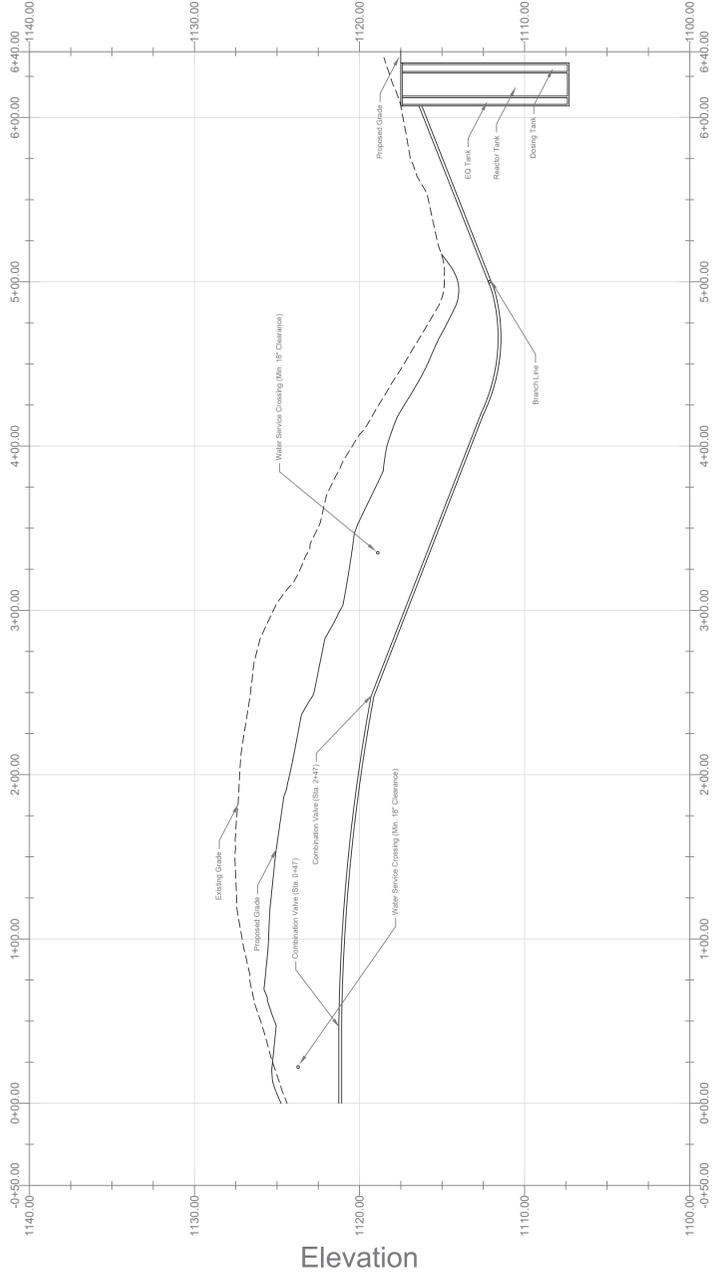
**THE NGUYEN RV PARK
 STEP SEWER COLLECTION SYSTEM
 PUTNAM COUNTY, TENNESSEE**

Date: 09/10/2024
 Drawn By: KL
 Project: FM: 227101
 Revisions:
 (1)
 (2)
 (3)

SCALE: 1" = 50'-0"
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PROFILE VIEW

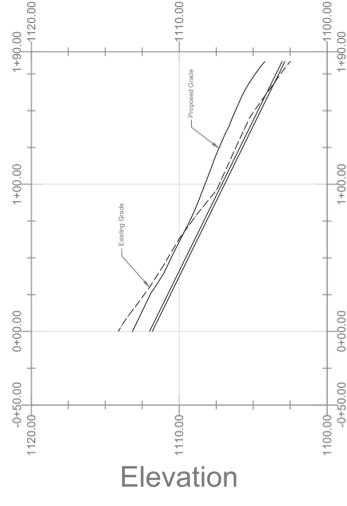
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Station

Collection Line A

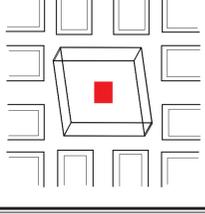
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 Vertical: 1" = 5'



Station

Collection Line B

Horizontal: 1" = 50'
 Vertical: 1" = 5'



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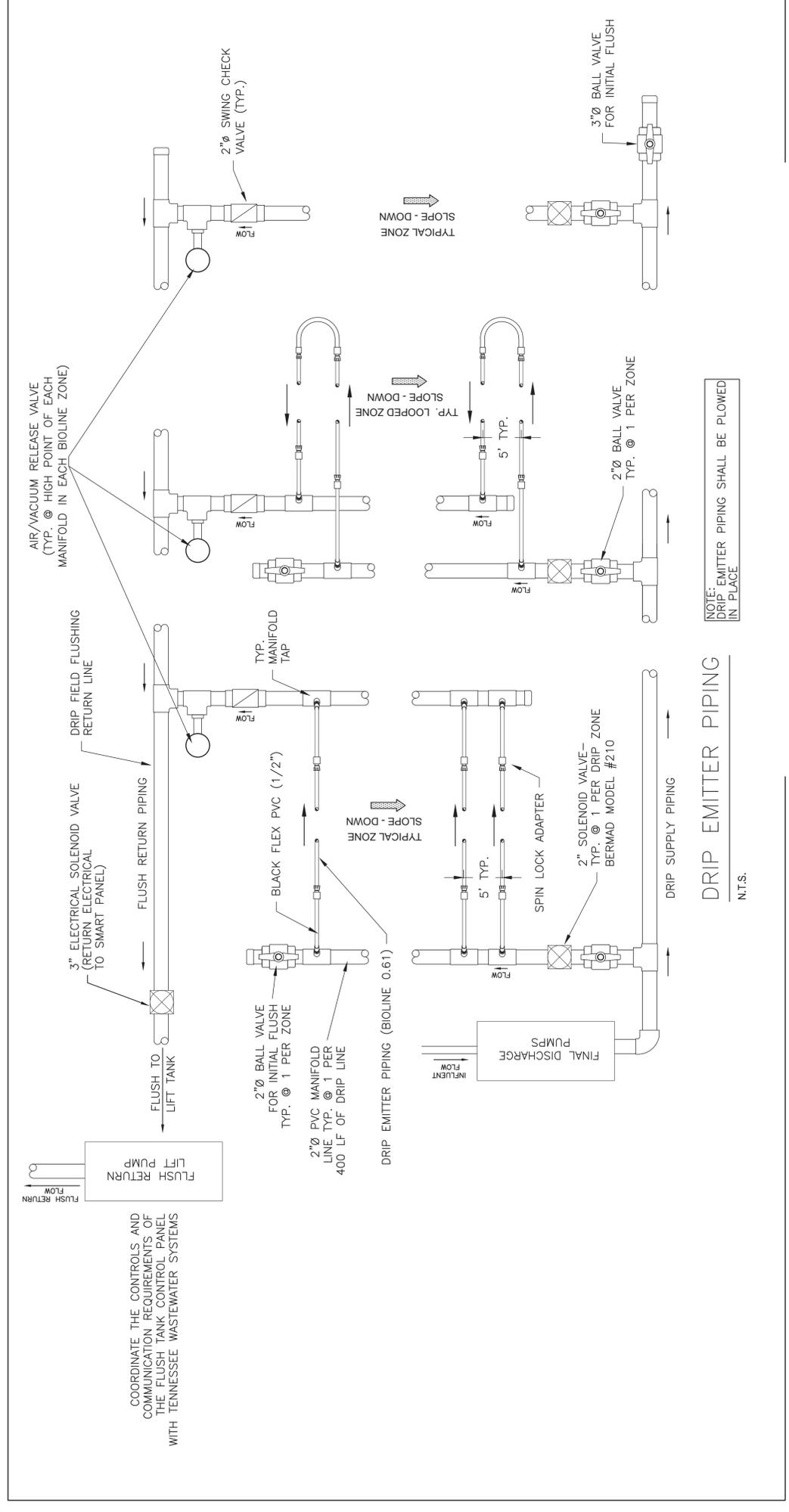
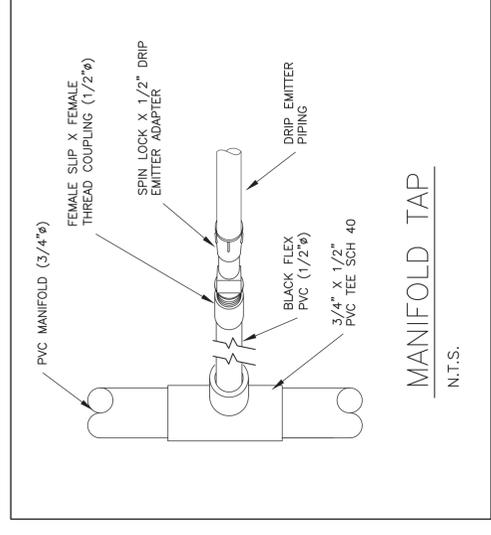
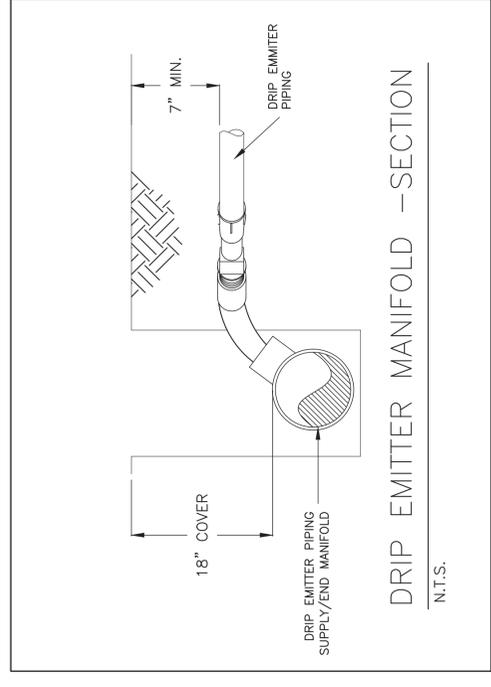
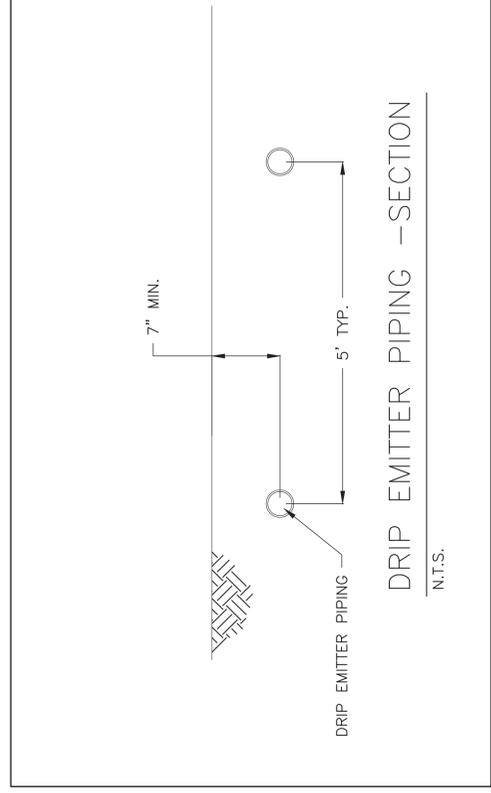
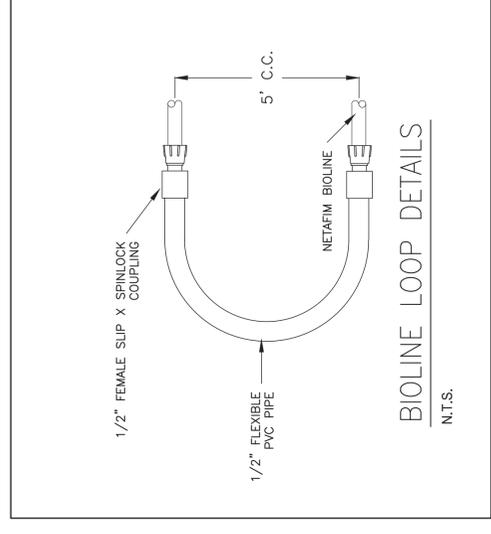
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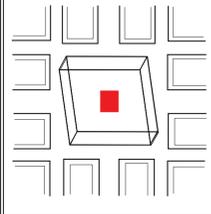
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DETAILS

2.1



COORDINATE THE CONTROLS AND COMMUNICATION REQUIREMENTS OF THE FLUSH TANK CONTROL PANEL WITH TENNESSEE WASTEWATER SYSTEMS



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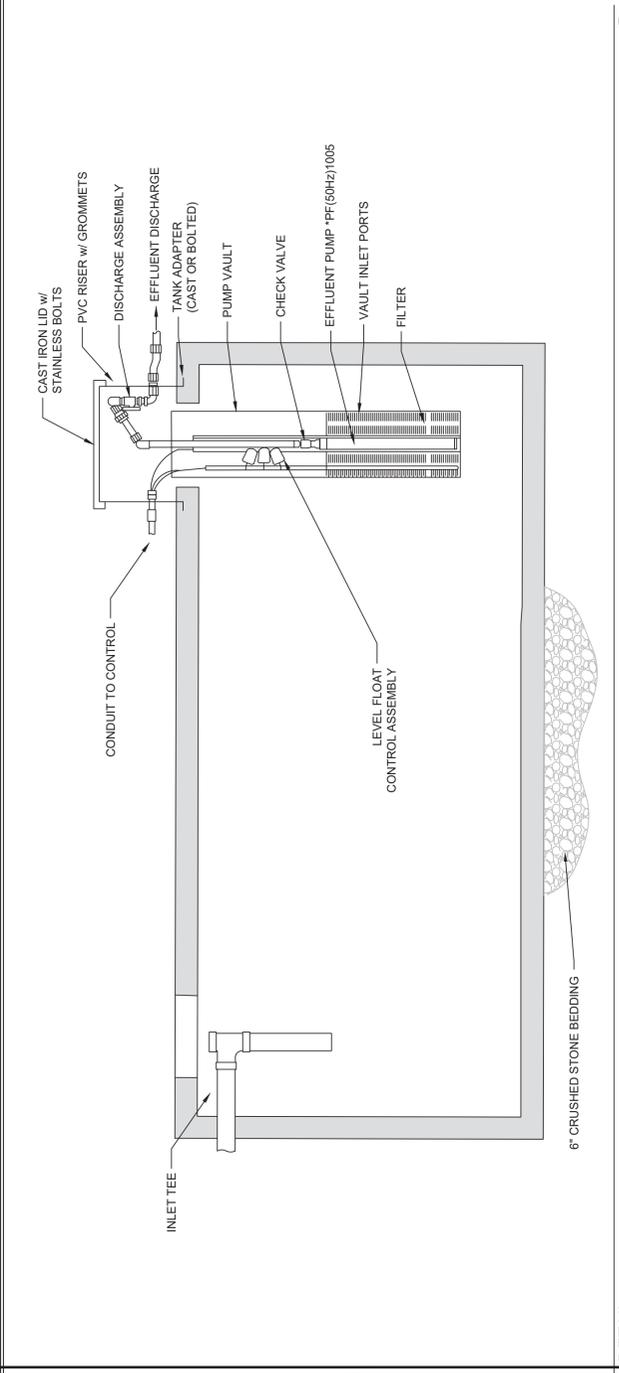
THE NGUYEN RV PARK
STEP SEWER COLLECTION SYSTEM
 PUTNAM COUNTY, TENNESSEE

Date: 09/10/2024
 Drawn By: KL
 Project: FM: 227101
 Revisions:
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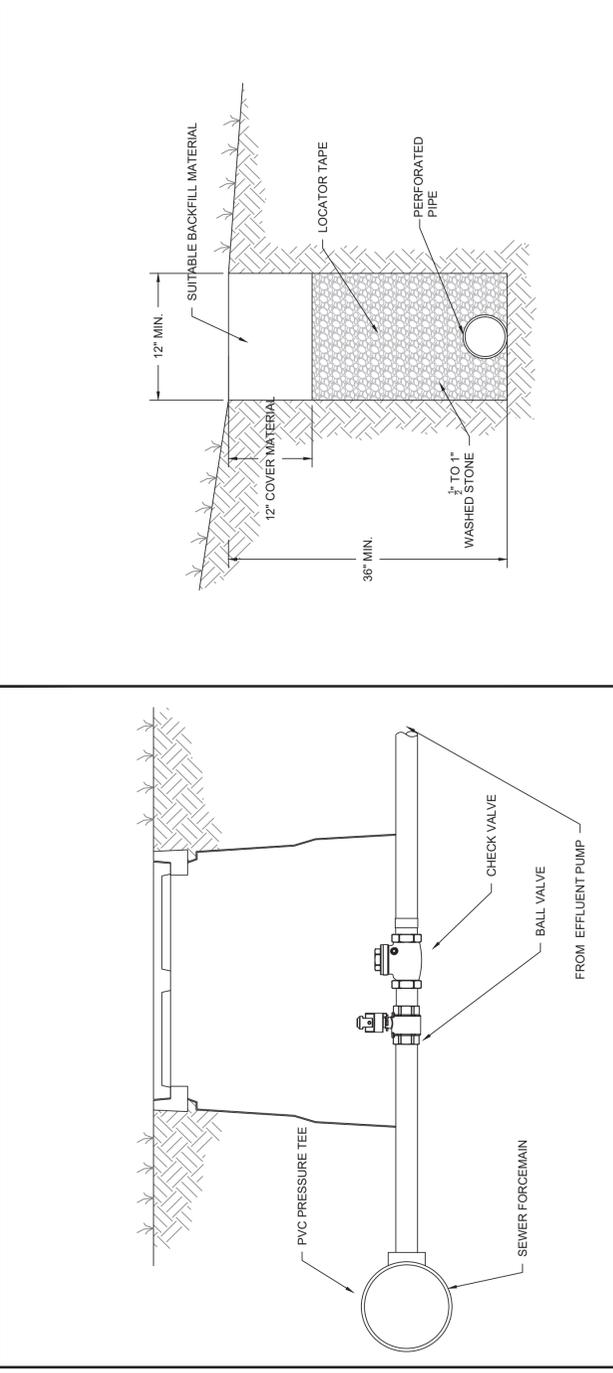
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DETAILS

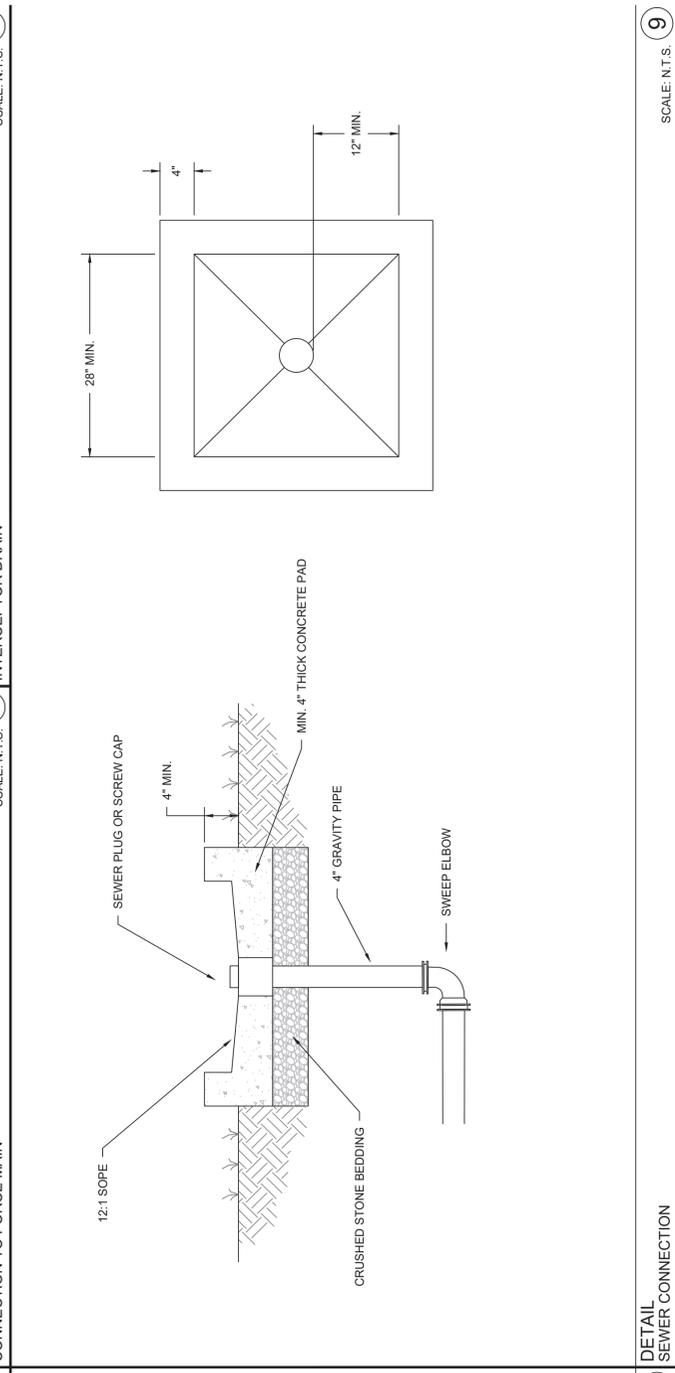
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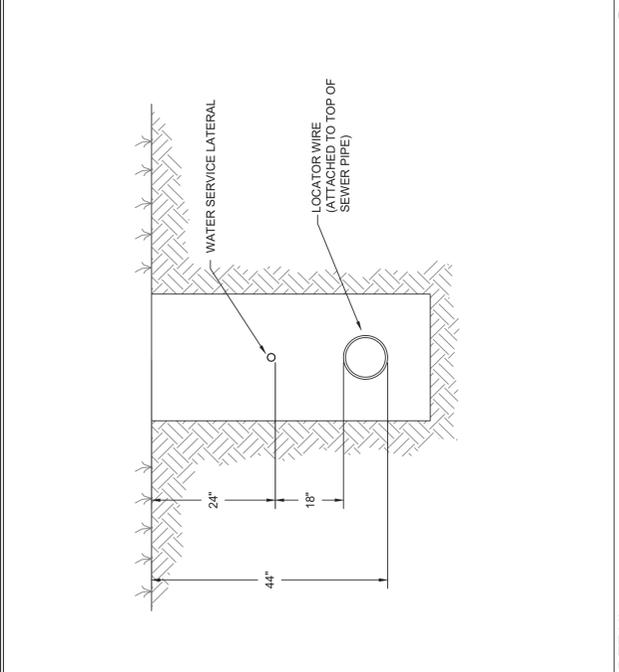
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 DETAIL STEP TANK



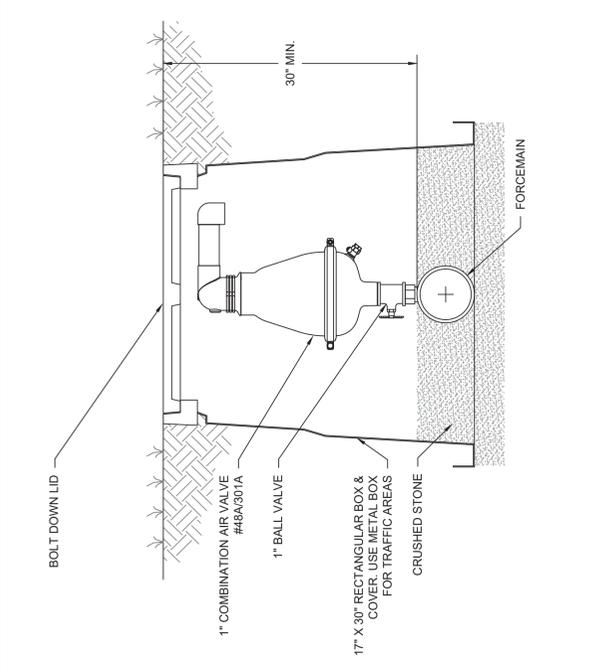
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 DETAIL CONNECTION TO FORCE MAIN



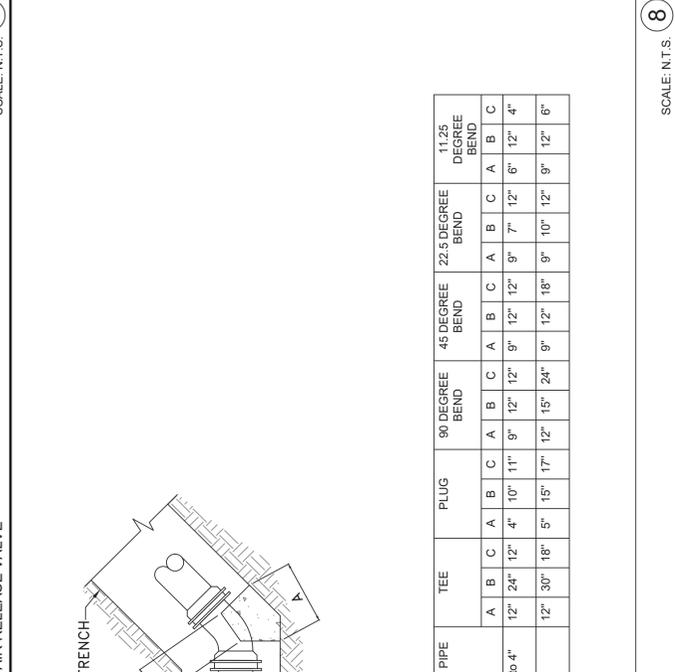
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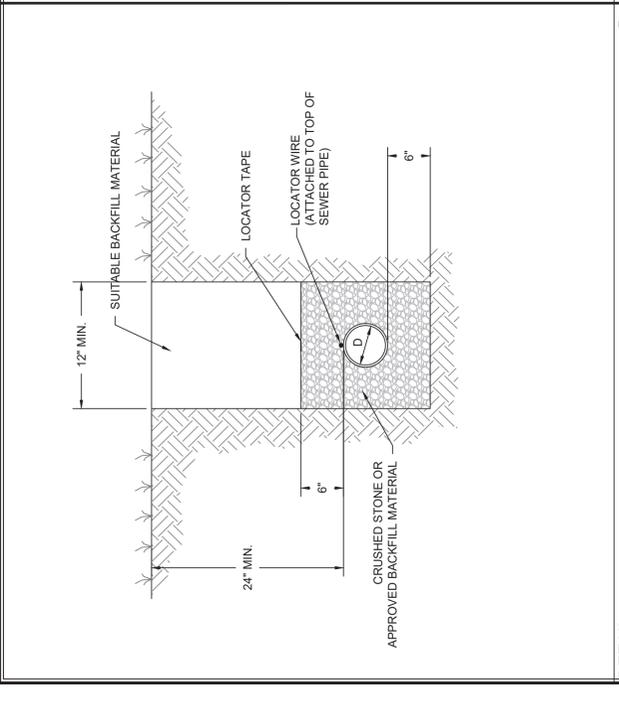
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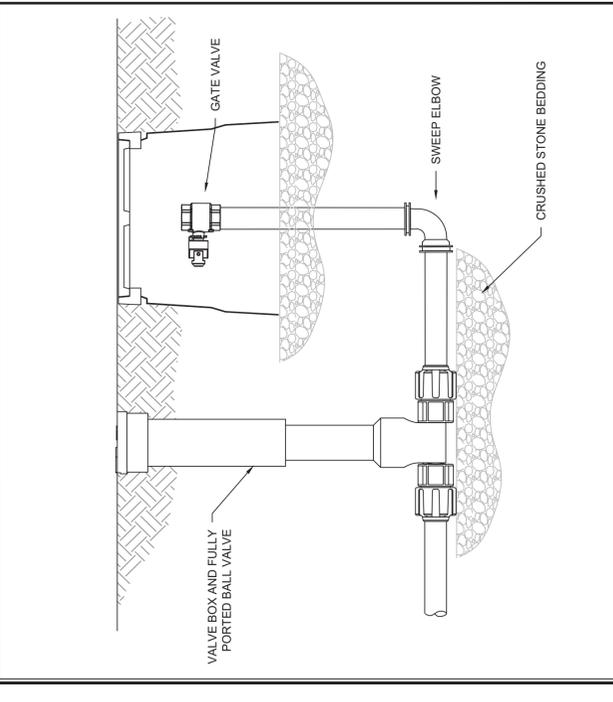
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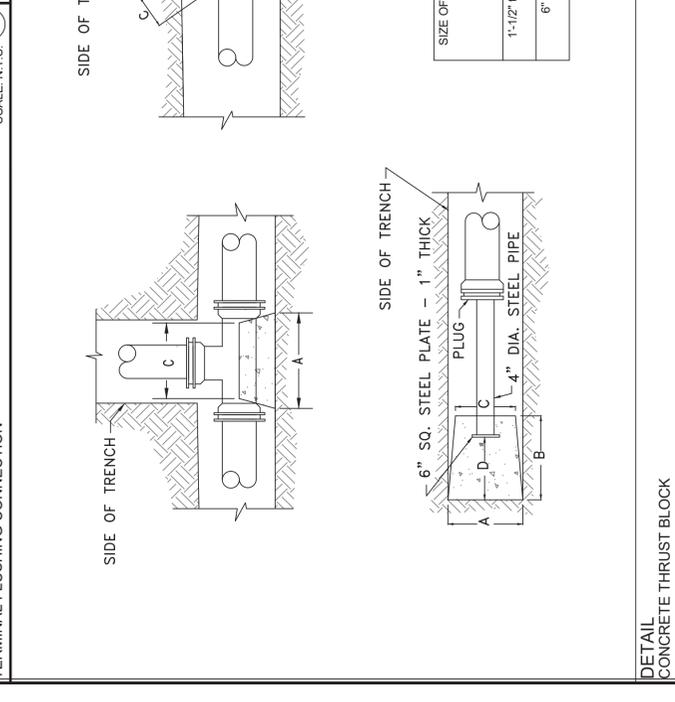
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 DETAIL CONCRETE THRUST BLOCK



1 SCALE: N.T.S.
 DETAIL EXCAVATION TRENCH

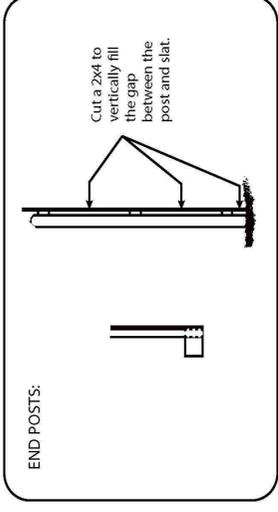
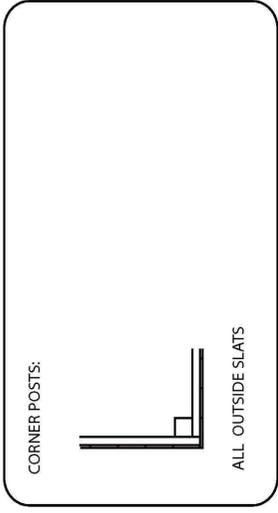
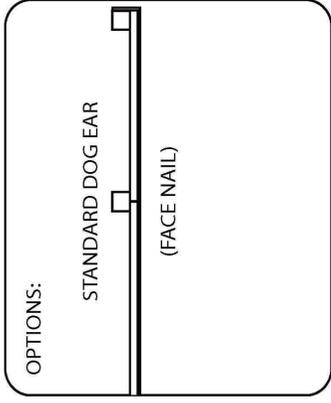
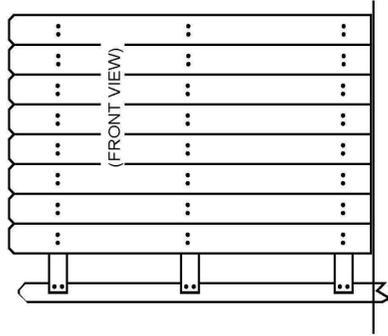
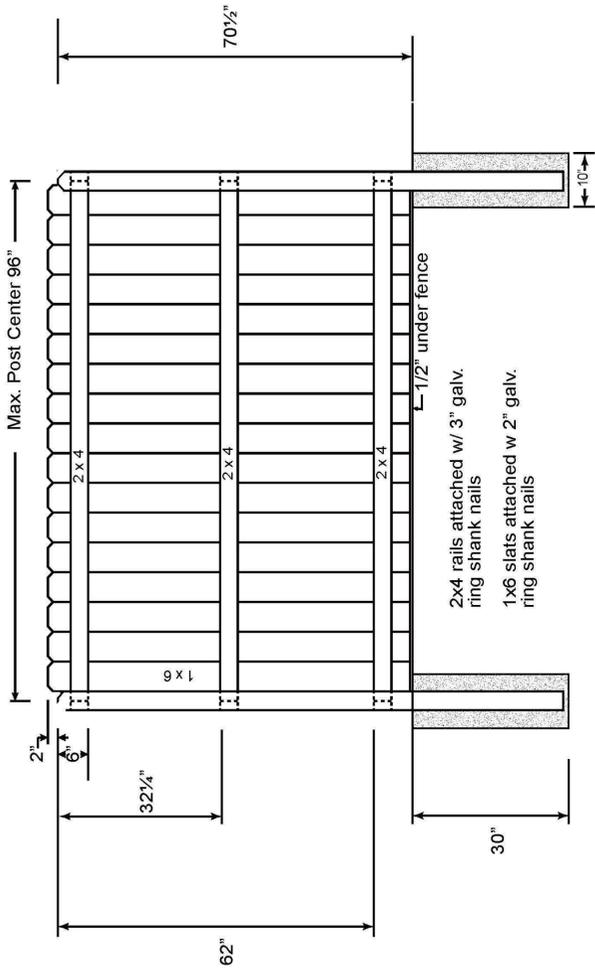


4 SCALE: N.T.S.
 DETAIL TERMINAL FLUSHING CONNECTION



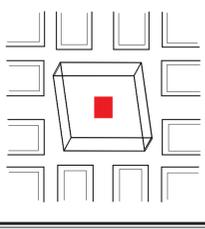
9 SCALE: N.T.S.
 DETAIL SEWER CONNECTION

DOG EAR FENCE



Privacy Fence Construction Notes:

- Contractor shall install privacy fence around perimeter of the treatment facility where noted on the drawings.
- Contractor shall install one 3-ft wide single privacy walk-through gate. Gate shall be constructed to industry standards. Gate shall have the same dog-eared design appearance as the privacy fence. Gate shall be lockable from the outside.
- Contractor shall install one double drive-through gate with two hinged swinging panels. Each hinged singling panel shall be 7-ft wide, with the entire open drive-through distance being 14-ft wide. Gates shall have the same dog-eared design appearance as the privacy fence. Gate shall be constructed to industry standards. Gate shall be lockable from the inside only.
- All privacy fence wood shall be pressure-treated wood.



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THE NGUYEN RV PARK
STEP SEWER COLLECTION SYSTEM
PUTNAM COUNTY, TENNESSEE

| | |
|------------|-------------------|
| Date: | 09/10/2024 |
| Drawn By: | KL, DD |
| Project: | FM: 227101 |
| Revisions: | (1) (2) (3) |

SCALE: N.T.S.
0 25 50 100
DETAILS

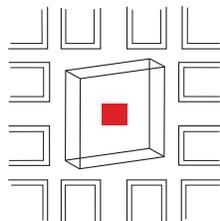
2.3

**THE NGUYEN RV PARK
STATE OPERATING
PERMIT APPLICATION**

Submitted For:
Judy Nguyen

September 09, 2024

By:



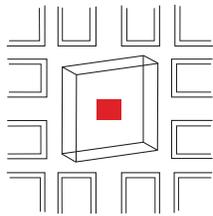
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Benjamin B. Farmer, PLA, ASLA, AICP

Principal, Managing Partner

bfarmer@farmermorgan.com

P.O. Box 592

Pikeville, TN 37367

O: 615.933.3857

M: 334.444.2893

Kyler Layne, P.E.

Civil Engineer

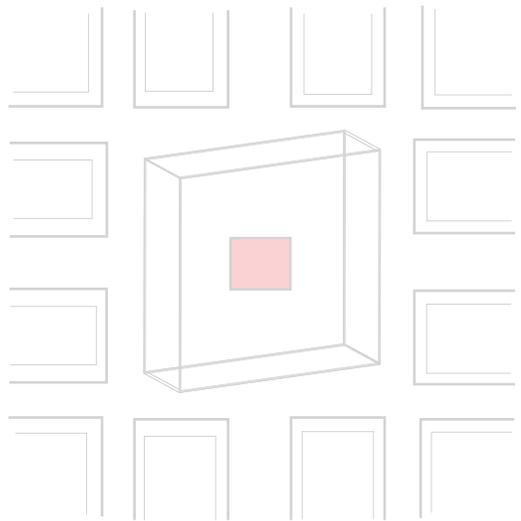
klayne@farmermorgan.com

O: 615.933.3857



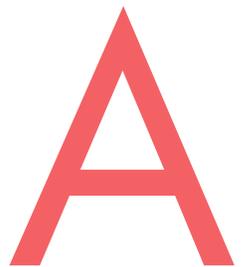
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SOP PERMIT
APPLICATION





SOP PERMIT APPLICATION



Tennessee Department of Environment and Conservation
 Division of Water Resources
 William R. Snodgrass - Tennessee Tower
 312 Rosa L. Parks Avenue, 11th Floor
 Nashville, Tennessee 37243-1102
 (615) 532-0625

APPLICATION FOR A STATE OPERATION PERMIT (SOP)

Type of application: New Permit Permit Reissuance Permit Modification

Permittee Identification: (Name of city, town, industry, corporation, individual, etc., applying, according to the provisions of Tennessee Code Annotated Section 69-3-108 and Regulations of the Tennessee Water Quality Control Board.)

Permittee Name
(applicant): Judy Nguyen

Permittee Address: 3147 Fisk Road, Cookeville, TN 38506

| | | | |
|------------------------------------|------------------------------------------------|--------------|---------------|
| Official Contact: Judy Nguyen | Title or Position: Owner | | |
| Mailing Address: 3147 Fisk Road | City: Cookeville | State: TN | Zip: 38506 |
| Phone number(s): 931-284-5526 | E-mail: peachtreeshorttermrentals@gmail.com | | |

| | | | |
|----------------------------------|---------------------------------------|--------------|---------------|
| Optional Contact: Rick Dake | Title or Position: Project Manager | | |
| Address: 3147 Fisk Road | City: Cookeville | State: TN | Zip: 38506 |
| Phone number(s): 417-257-5578 | E-mail: rddake@icloud.com | | |

Application Certification (must be signed in accordance with the requirements of Rule 0400-40-05-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

| | | |
|-----------------------------------------------------|---------------|------------------|
| Name and title; print or type Judy Nguyen, Owner | Signature | Date 09-06-24 |
|-----------------------------------------------------|---------------|------------------|

CN 1251 (Rev. 03-19)

(continued)

RDA 2366



SOP PERMIT APPLICATION



SOP APPLICATION - page 2

Permit Number: SOP-_____

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------|-------------------|
| Facility Identification: | | Existing Permit No. | |
| Facility Name: Nguyen RV Park Treatment Facility | | County: Putnam | |
| Facility Address or Location: 3147 Fisk Road, Cookeville, TN 38506 | | Latitude: 36.209005 | |
| | | Longitude: -85.479941 | |
| Name and distance to nearest receiving waters: Bear Creek, Approx. 1.5 miles | | | |
| If any other State or Federal Water/Wastewater Permits have been obtained for this site, list their permit numbers: | | | |
| Name of company or governmental entity that will operate the permitted system: Martest, Inc. | | | |
| Operator address: P.O. Box 22, Celina, TN 38551 | | | |
| Has the owner/operator filed for a Certificate of Convenience & Necessity (CCN), or an amended CCN, with the Tennessee Regulatory Authority (TRA) (may be required for collection systems and land application treatment systems)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | | |
| If the applicant listed above does not yet own the facility/site or if the applicant will not be the operator, explain how and when the ownership will be transferred or describe the contractual arrangement and renewal terms of the contract for operations. | | | |
| Complete the following information explaining the entity type, number of design units, and daily design wastewater flow: | | | |
| <u>Entity Type</u> | <u>Number of Design Units</u> | | <u>Flow (gpd)</u> |
| <input type="checkbox"/> City, town or county | No. of connections: | | |
| <input type="checkbox"/> Subdivision | No. of homes: | Avg. No. bedrooms per home: | |
| <input type="checkbox"/> School | No. of students: | Size of cafeteria(s): No. of showers: | |
| <input type="checkbox"/> Apartment | No. of units: | No. units with Washer/Dryer hookups: No. units without W/D hookups: | |
| <input type="checkbox"/> Commercial Business | No. of employees: | Type of business: | |
| <input type="checkbox"/> Industry | No. of employees: | Product(s) manufactured: | |
| <input type="checkbox"/> Resort | No. of units: | | |
| <input type="checkbox"/> Camp | No. of hookups: | | |
| <input checked="" type="checkbox"/> RV Park | No. of hookups: 71 | No. of dump stations: | 8,875 |
| <input type="checkbox"/> Car Wash | No. of bays: | | |
| <input checked="" type="checkbox"/> Other | Office: 1 | | 300 |
| Describe the type and frequency of activities that result in wastewater generation. Treatment and land application of typical domestic waste. | | | |

CN 1251 (Rev. 03-19)

RDA 2366



SOP PERMIT APPLICATION

SOP APPLICATION - page 3

Permit Number: SOP-_____

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Engineering Report (required for collection systems and/or land application treatment systems): | <input type="checkbox"/> N/A |
| <input checked="" type="checkbox"/> Prepared in accordance with Rule 0400-40-05-.03 and Section 1.2 of the State of Tennessee Design Criteria for Sewage Works | |
| <input checked="" type="checkbox"/> Attached, or | |
| <input type="checkbox"/> Previously submitted and entitled: | Approved? <input type="checkbox"/> Yes. Date: <input type="checkbox"/> No |
| Operation and Maintenance Inspection Schedule Submitted: | Approved? <input type="checkbox"/> Yes. Date: <input type="checkbox"/> No |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Wastewater Collection System: | <input type="checkbox"/> N/A |
| System type (i.e., gravity, low pressure, vacuum, combination, etc.): Combination | |
| System Description: 4" diameter gravity sewer pipe and 2" diameter low pressure pipe | |
| Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): See Section B | |
| In the event of a system failure describe means of operator notification: Pumps have alarms & Redundancy | |
| List the emergency contact(s) (name/phone): Jason Hamilton, 931-397-3666 | |
| For low-pressure systems, who is responsible for maintenance of STEP/STEG tanks and pumps or grinder pumps (list all contact information)? Owner: Judy Nguyen, peachtreeshorttermrentals@gmail.com, 931-284-5526 | |
| Approximate length of sewer (excluding private service lateral): 5610 linear feet | |
| Number/hp of lift stations: | / Number/hp of lift pumps / |
| Number/volume of low pressure and or grinder pump tanks | 10 / 1500-3000 |
| Number/volume septic tanks | / |
| Attach a schematic of the collection system. <input checked="" type="checkbox"/> Attached | |
| If this is a satellite sewer and you are tying in to another sewer system complete the following section, listing tie-in points to the sewer system and their location (attach additional sheets as necessary): | |
| <u>Tie-in Point</u> | <u>Latitude (xx.xxxx°)</u> |
| | <u>Longitude (xx.xxxx°)</u> |
| | |
| | |



| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Land Application Treatment System: | <input type="checkbox"/> N/A |
| Type of Land Application Treatment System: <input checked="" type="checkbox"/> Drip <input type="checkbox"/> Spray <input type="checkbox"/> Other, explain: | |
| Type of treatment facility preceding land application (recirculating media filters, lagoons, other, etc.): | Fixed bed bio-reactor |
| Attach a treatment schematic. <input checked="" type="checkbox"/> Attached | |
| Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): | See Section B |
| For New or Modified Projects: Name of Developer for the project: | Judy Nguyen |
| Developer address and phone number: | 3147 Fisk Rd., Cookeville, TN 38506 |
| For land application, list: Proposed acreage involved: | Approximately 1.2 acres |
| Inches/week gpd/sq.ft loading rate to be applied: | 0.2 gpd/sf |
| Is wastewater disinfection proposed? | |
| <input type="checkbox"/> Yes Describe land application area access: | |
| <input checked="" type="checkbox"/> No Describe how access to the land application area will be restricted: | Fenced off |
| Attach required additional Engineering Report Information (see website for more information) | |
| <input checked="" type="checkbox"/> Topographic map (1:24,000 scale presented at a six inch by six inch minimum size) showing the location of the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in decimal degrees should also be included. | |
| <input checked="" type="checkbox"/> Scaled layout of facility showing the following: lots, buildings, etc. being served, the wastewater collection system routes, the pretreatment system location, the proposed land application area(s), roads, property boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection areas, sinkholes and wetlands. | |
| <input checked="" type="checkbox"/> Soils information for the proposed land disposal area in the form of a Water Resources Soils Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils information should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile description for each soil mapped. | |
| <input checked="" type="checkbox"/> Topographic map of the area where the wastewater is to be land applied with no greater than ten foot contours presented at a minimum size of 24 inches by 24 inches. | |
| <input type="checkbox"/> Describe alternative application methods based on the following priority rating: (1) connection to a municipal/public sewer system, (2) connection to a conventional subsurface disposal system as regulated by the Division of Groundwater Protection, and/or (3) land application. | |



SOP PERMIT APPLICATION

SOP APPLICATION - page 5

Permit Number: SOP-_____

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <p>For Drip Dispersal Systems Only: Unless otherwise determined by the Department, sewage treatment effluent wells, i.e. large capacity treatment/drip dispersal systems after approval of the SOP Application, will be issued an UIC tracking number and will be authorized as Permit by Rule per UIC Rule 0400-45-06-.14(2) and upon issue of a State Operating Permit and Sewage System Construction Approval by the Department. Describe the following:</p> | <input type="checkbox"/> N/A |
| <p>The area of review (AOR) for each Drip Dispersal System shall, unless otherwise specified by the Department, consist of the area lying within a one mile radius or an area defined by using calculations under 0400-45-06-.09 of the Drip Dispersal System site or facility, and shall include, but not be limited to general surface geographic features, general subsurface geology, and general demographic and cultural features within the area. Attach to this part of the application a general characterization of the AOR, including the following: (This can be in narrative form) See Section C</p> | |
| <p><input checked="" type="checkbox"/> A general description of all past and present groundwater uses as well as the general groundwater flow direction and general water quality. See Section D</p> | |
| <p><input checked="" type="checkbox"/> A general description of the population and cultural development within the AOR (i.e. agricultural, commercial, residential or mixed) See Section E</p> | |
| <p><input checked="" type="checkbox"/> Nature of injected fluid to include physical, chemical, biological or radiological characteristics. See sect. F</p> | |
| <p><input checked="" type="checkbox"/> If groundwater is used for drinking water within the area of review, then identify and locate on a topographic map all groundwater withdrawal points within the AOR, which supply public or private drinking water systems. Or supply map showing general location of publicly supplied water for the area (this can be obtained from the water provider) See Section G</p> | |
| <p><input type="checkbox"/> If the proposed system is located within a wellhead protection area or source water protection area designated by Rule 0400-45-01-.34, show the boundary of the protection area on the facility site plan.</p> | |
| <p><input checked="" type="checkbox"/> Description of system, Volume of injected fluid in gallons per day based upon design flow, including any monitoring wells See Section H</p> | |
| <p><input checked="" type="checkbox"/> Nature and type of system, including installed dimensions of wells and construction materials See sect I</p> | |

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <p>Pump and Haul:</p> | <input checked="" type="checkbox"/> N/A |
| <p>Reason system cannot be served by public sewer:</p> | |
| <p>Distance to the nearest manhole where public sewer service is available:</p> | |
| <p>When sewer service will be available:</p> | |
| <p>Volume of holding tank: gal.</p> | |
| <p>Tennessee licensed septage hauler (attach copy of agreement):</p> | |
| <p>Facility accepting the septage (attach copy of acceptance letter):</p> | |
| <p>Latitude and Longitude (in decimal degrees) of approved manhole for discharge of septage:</p> | |
| <p>Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.):</p> | |



SOP PERMIT APPLICATION



SOP APPLICATION - page 6

Permit Number: SOP-_____

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Holding Ponds (for non-domestic wastewater only): | <input checked="" type="checkbox"/> N/A |
| Pond use: <input type="checkbox"/> Recirculation <input type="checkbox"/> Sedimentation <input type="checkbox"/> Cooling <input type="checkbox"/> Other (describe): | |
| Describe pond use and operation: | |
| If the pond(s) are existing pond(s), what was the previous use? | |
| Have you prepared a plan to dispose of rainfall in excess of evaporation? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| If so, describe disposal plan: | |
| Is the pond ever dewatered? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| If so, describe the purpose for dewatering and procedures for disposal of wastewater and/or sludge: | |
| Is(are) the pond(s) aerated? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Volume of pond(s): _____ gal. Dimensions: | |
| Is the pond lined (Note if this is a new pond system it must be lined for SOP coverage. Otherwise, you must apply for an Underground Injection Control permit.)? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Describe the liner material (if soil liner is used give the compaction specifications): | |
| Is there an emergency overflow structure? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| <i>If so, provide a design drawing of structure.</i> | |
| Are monitoring wells or lysimeters installed near or around the pond(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| <i>If so, provide location information and describe monitoring protocols (attach additional sheets as necessary):</i> | |

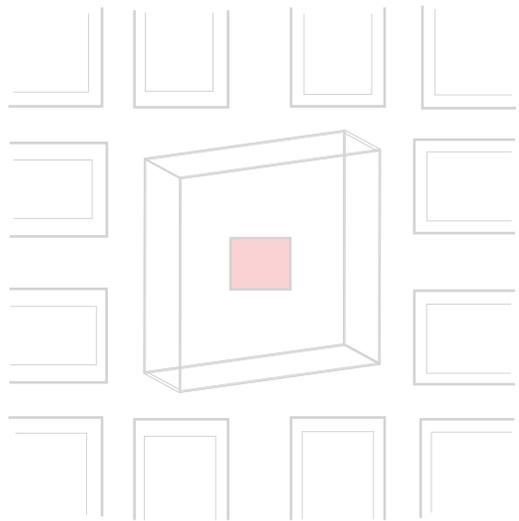


SOP PERMIT APPLICATION

SOP APPLICATION - page 7

Permit Number: SOP-_____

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------|
| Mobile Wash Operations: | | <input checked="" type="checkbox"/> N/A |
| <input type="checkbox"/> Individual Operator | <input type="checkbox"/> Fleet Operation Operator | |
| Indicate the type of equipment, vehicle, or structure to be washed during normal operations (check all that apply): | | |
| <input type="checkbox"/> Cars | <input type="checkbox"/> Parking Lot(s): | sq. ft. |
| <input type="checkbox"/> Trucks | <input type="checkbox"/> Windows: | sq. ft. |
| <input type="checkbox"/> Trailers (Interior washing of dump-trailers, or tanks, is prohibited.) | <input type="checkbox"/> Structures (describe): | |
| <input type="checkbox"/> Other (describe): | | |
| Wash operations take place at (check all that apply): | | |
| <input type="checkbox"/> Car sales lot(s) | <input type="checkbox"/> Public parking lot(s) | |
| <input type="checkbox"/> Private industry lot(s) | <input type="checkbox"/> Private property(ies) | |
| <input type="checkbox"/> County(ies), list: | <input type="checkbox"/> Statewide | |
| Wash equipment description: | | |
| <input type="checkbox"/> Truck mounted | <input type="checkbox"/> Trailer mounted | |
| <input type="checkbox"/> Rinse tank size(s) (gal.): | <input type="checkbox"/> Mixed tanks size(s) (gal.): | |
| <input type="checkbox"/> Collection tank size(s) (gal.): | Number of tanks per vehicle: | |
| Pressure washer: _____ psi (rated) _____ gpm (rated) | | |
| <input type="checkbox"/> gas powered <input type="checkbox"/> electric | | |
| Vacuum system manufacturer/model: | | Vacuum system capacity: _____ inches Hg |
| Describe any other method or system used to contain and collect wastewater: | | |
| List the public sewer system where you are permitted or have written permission to discharge waste wash water (include a copy of the permit or permission letter): | | |
| Are chemicals pre-mixed, prior to arriving at wash location? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Describe all soaps, detergents, or other chemicals used in the wash operation (attach additional sheets as necessary): | | |
| Chemical name: | Manufacturer: | Primary CAS No. or Product No. |
| | | |
| | | |
| | | |
| | | |



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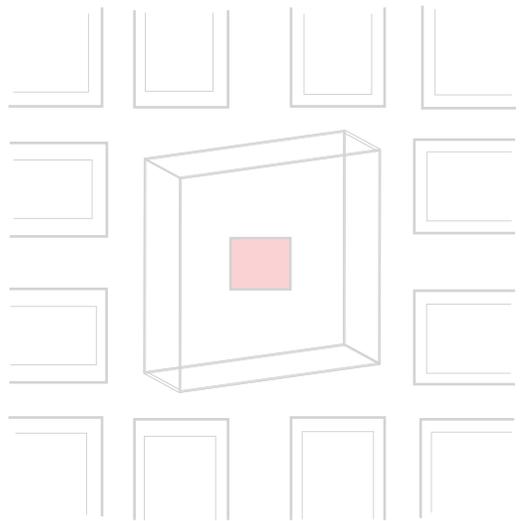
RESPONSE TO BYPASS
OF SYSTEM DISCHARGES

B



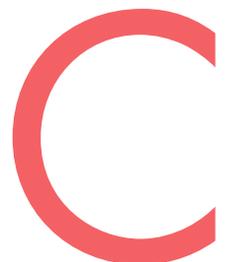
RESPONSE TO BYPASS OF SYSTEM DISCHARGES

Each RV slip and office has approximately 2.5x the anticipated daily storage in the STEP tanks in the event of power or equipment failures. Generators can be connected to the pump stations and treatment system as necessary during a prolonged power outage. Heavy rains have a minimal impact on a watertight collection system.



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AREA OF
REVIEW





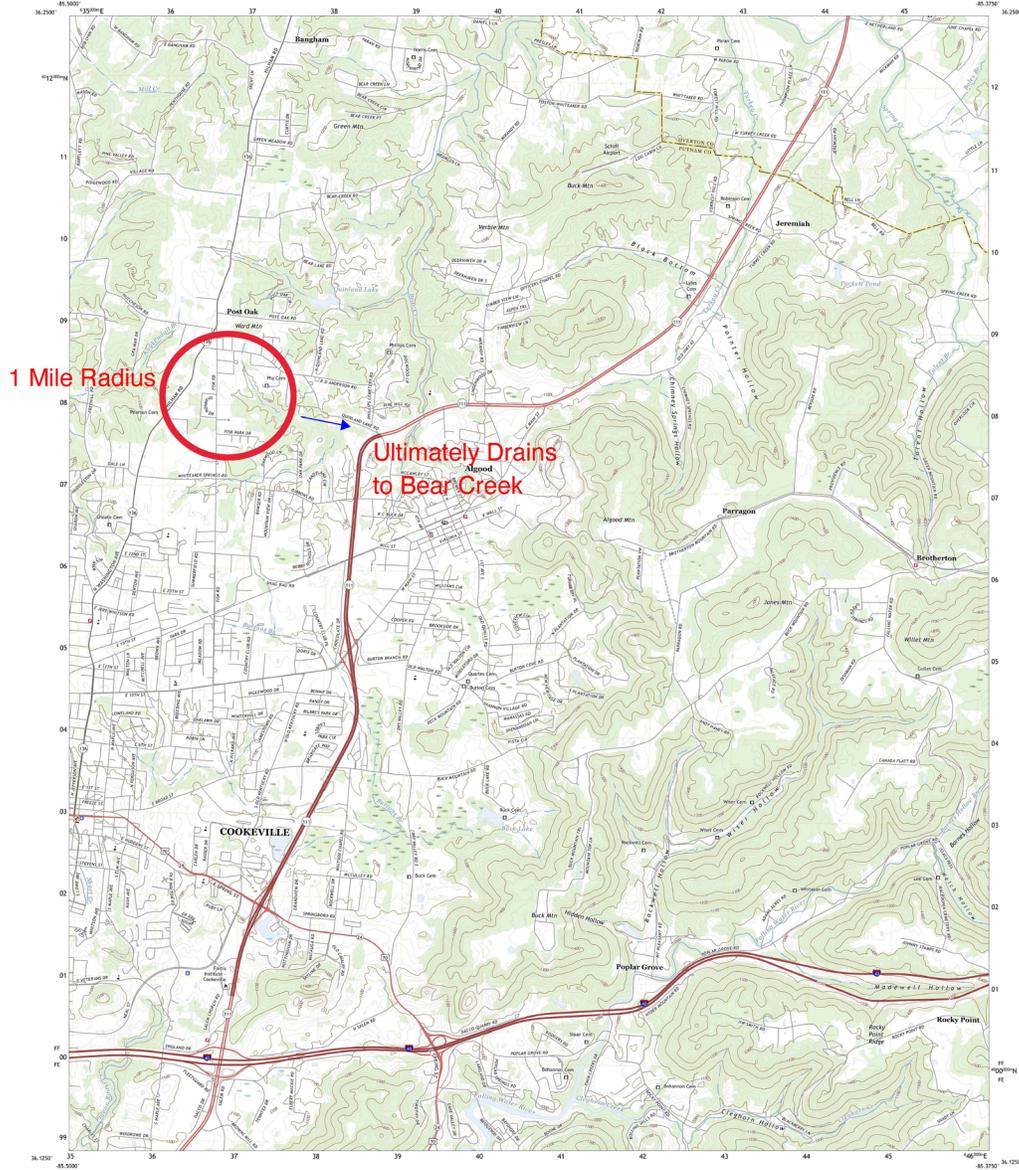
AREA OF REVIEW



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

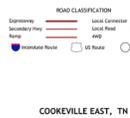
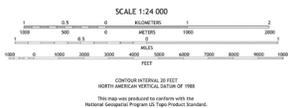
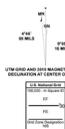


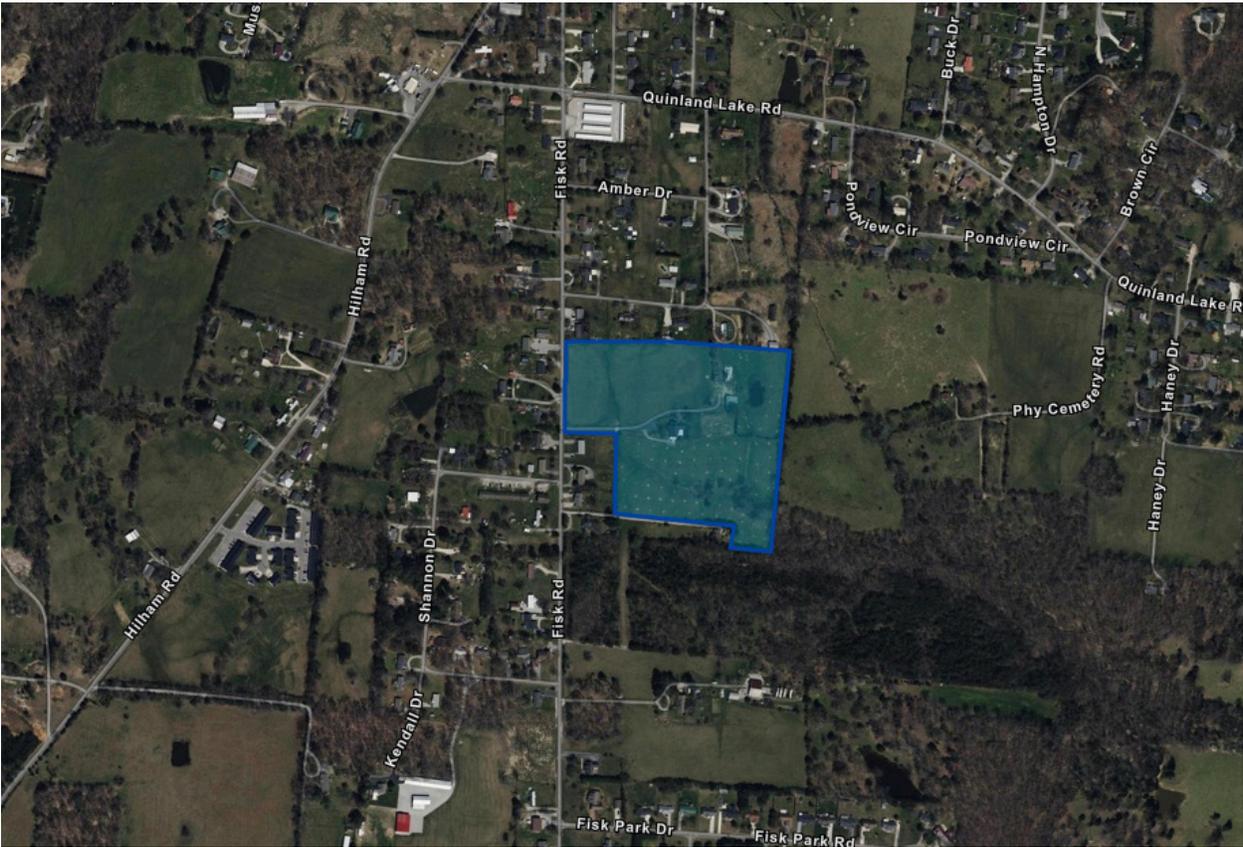
COOKEVILLE EAST QUADRANGLE
TENNESSEE
7.5-MINUTE SERIES



Produced by the United States Geological Survey
 using data from the 1980s
 National Wetlands Inventory (NWI) and
 1:50,000 scale topographic maps (USGS 7.5-MINUTE SERIES).
 The NWI data was generated for the public domain through a government
 information policy and is shown. Other information shown
 is not a product of the USGS.

Source: NWI, June 2014 - October 2014
 U.S. Census Bureau, 2000
 National Wetlands Inventory, 2001
 National Hydrography Dataset, 2002
 National Wetlands Inventory, 2002
 Multiple sources, see metadata file 50191_2011
 USGS, 2011
 National Wetlands Inventory, 1981





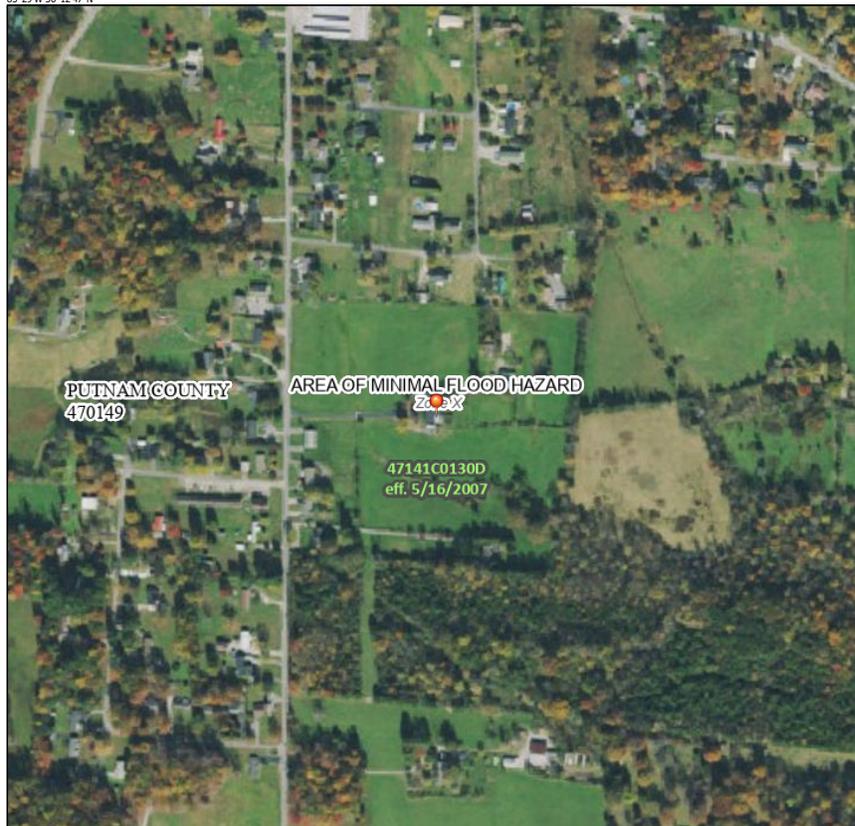


AREA OF REVIEW

National Flood Hazard Layer FIRMette



85°29'W 36°12'47"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

| | | |
|----------------------------|--|------------------------------------------------------|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) Zone A, V, A99 |
| | | With BFE or Depth Zone AE, AO, AH, VE, AR |
| | | Regulatory Floodway |

| | | |
|-----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
| | | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | | Area with Reduced Flood Risk due to Levee. See Notes, Zone X |
| | | Area with Flood Risk due to Levee Zone D |

| | | |
|-------------|--|-----------------------------------------------|
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard Zone X |
| | | Effective LOMRs |
| | | Area of Undetermined Flood Hazard Zone D |

| | | |
|--------------------|--|----------------------------------|
| GENERAL STRUCTURES | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |

| | | |
|----------------|--|-------------------------------------------|
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance |
| | | 17.6 Water Surface Elevation |
| | | Coastal Transsect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| | | Coastal Transsect Baseline |
| OTHER FEATURES | | Profile Baseline |
| | | Hydrographic Feature |

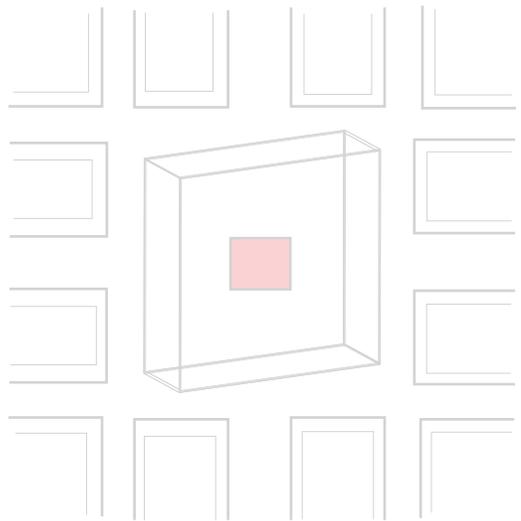
| | | |
|------------|--|---------------------------|
| MAP PANELS | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/20/2024 at 10:49 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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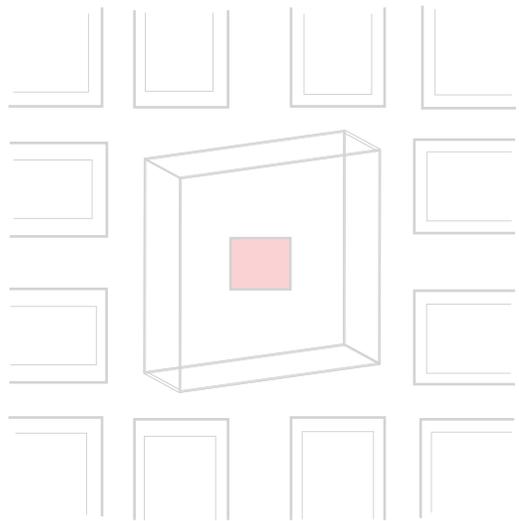
GROUNDWATER
GENERAL DESCRIPTION





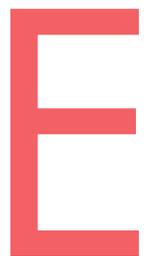
GROUNDWATER GENERAL DESCRIPTION

The attached USGS quadrangle map indicates that the Nguyen RV Park wastewater treatment area drains to the southeast eventually discharging into Bear Creek. The overall site is approximately 17.43 acres. The topography is primarily rolling slopes with moderate slopes ranging from 0-20%. The property is bordered by Fisk Road along the west side and by residential or farmland on the north, east, and south. The majority of the site is farmland / pasture with sparse shrubbery and trees along property boundaries and drainage areas. The property is served by the Bangham Water Utility District.



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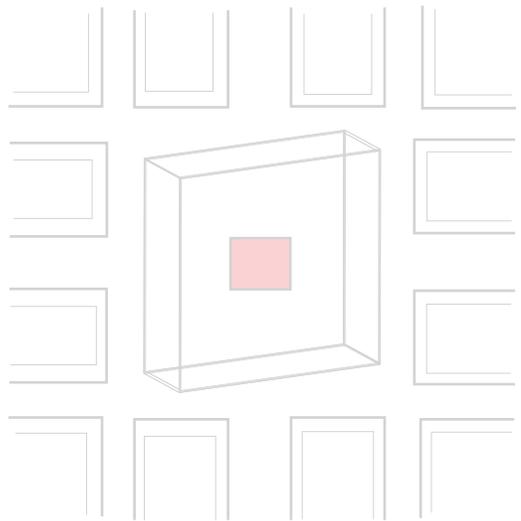
POPULATION
GENERAL DESCRIPTION





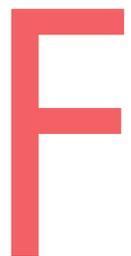
POPULATION GENERAL DESCRIPTION

The majority of the Area of Review is residential and agricultural land used primarily for pasture or hay.



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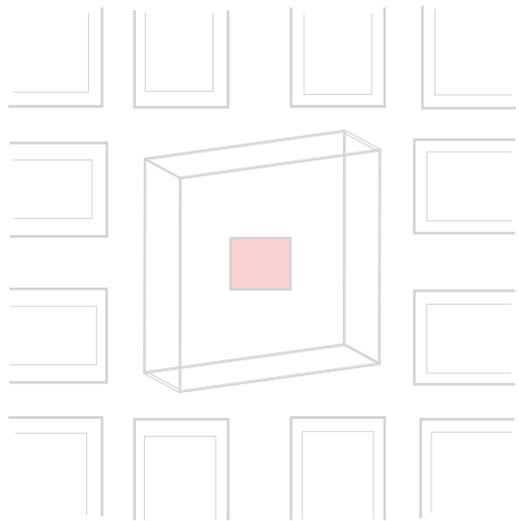
NATURE
OF FLUID





NATURE OF FLUID

The Nguyen RV Park (71 slips) will have an anticipated discharge of 9,175 gdp of domestic wastewater. The effluent quality is typical domestic residential treated wastewater that meets the State Operating Permit and Design Criteria limits.



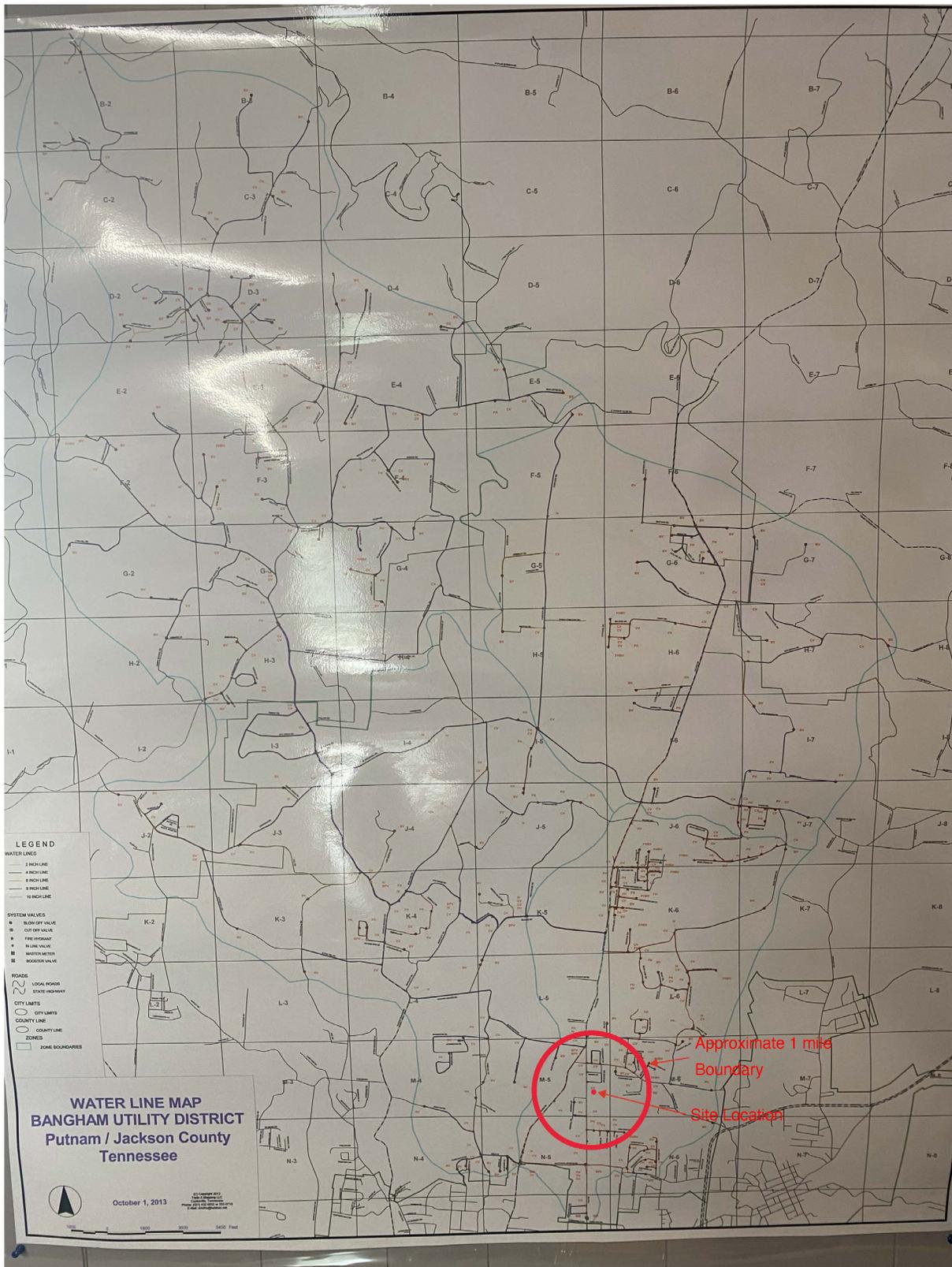
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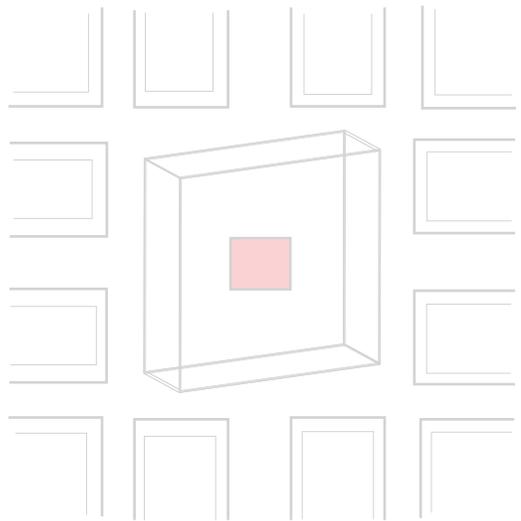
GENERAL LOCATION OF
PUBLICLY SUPPLIED WATER



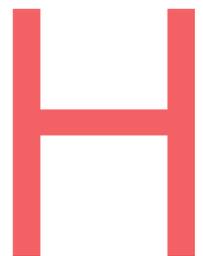


GENERAL LOCATION OF PUBLIC SUPPLIED WATER





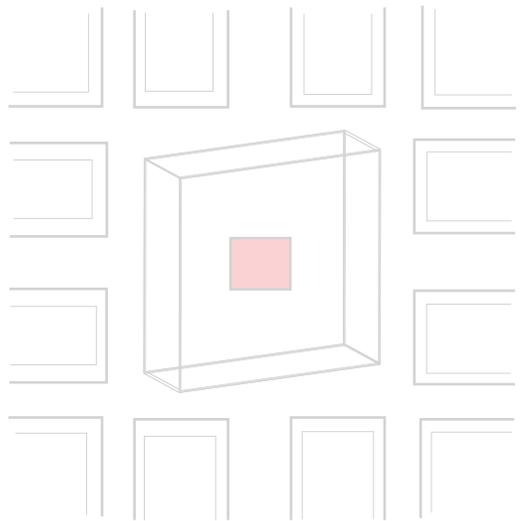
FARMER | MORGAN
DESCRIPTION
OF SYSTEM





DESCRIPTION OF SYSTEM

The treated wastewater of approximately 9,175 gpd is distributed through drip lines with pressure compensating emitters. The drip lines are to be installed on 2-foot centers along the contours. Drip lines are plowed into the soils that have been tested and approved by a soil scientist for the use of drip irrigation dispersal systems at an approximate depth of 7-8 inches below the surface. Distribution of the treated wastewater is managed through solenoid valves and controlled by a programmable PLC.



FARMER | MORGAN

NATURE AND
TYPE OF SYSTEM





NATURE AND TYPE OF SYSTEM

Wastewater from the RV park will first be collected in STEP tanks by gravity lines. Water is pumped from the tank via a low pressure collection line to ECOPOD reactor discharging into the dosing tank and then distributed through the drip dispersal lines within the approved soils.

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STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

Davy Crockett Tower, 9th Floor
500 James Robertson Parkway
Nashville, Tennessee 37243

October 14, 2024

Judy Nguyen
Owner

e-copy: peachtreeshorttermrental@gmail.com
3147 Fisk Road
Cookeville, TN 38506

Subject: **Draft of State Operating Permit No. SOP-24024**
Judy Nguyen
Nguyen RV Park Treatment Facility
Cookeville, Putnam County, Tennessee

To whom it may concern:

Enclosed please find one copy of the draft state operating permit SOP-24024, which the Division of Water Resources (the Division) proposes to issue. The issuance of this permit is contingent upon your meeting all of the requirements of the Tennessee Water Quality Control Act and the rules and regulations of the Tennessee Water Quality, Oil and Gas Board.

TDEC's approval of this land application waste treatment system shall not be construed as creating a presumption of correct operation nor as warranting by the commissioner that the approved facilities will reach the designated goals. T.C.A. § 69-3-108(i). Similarly, TDEC's issuance of a state operating permit in no way guarantees that this land application system will function properly. Notwithstanding these approvals, owners and operators are required to ensure that operation of this system does not result in pollution of waters of the state, including groundwater.

If you disagree with the provisions and requirements contained in the draft permit, you have thirty (30) days from the date of this correspondence to notify the division of your objections. If your objections cannot be resolved, you may appeal the issuance of this permit. This appeal should be filed in accordance with Section 69-3-110, Tennessee Code Annotated.

If you have questions, please contact the Cookeville EFO at 1-888-891-TDEC; or, at this office, please contact Cookeville Cookeville at Cookeville or by E-mail at *Cookeville*.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brad Harris", with a stylized flourish at the end.

Brad Harris, P.E.
Manager, Land-Based Systems

Enclosure

cc: Permit File

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

Davy Crockett Tower-9th Floor
500 James Robertson Parkway
Nashville, Tennessee 37243

Permit No. SOP-24024

PERMIT

For the operation of Wastewater Treatment Facilities

In accordance with the provision of Tennessee Code Annotated section 69-3-108 and Regulations promulgated pursuant thereto:

PERMISSION IS HEREBY GRANTED TO

Judy Nguyen
Nguyen RV Park Treatment Facility
Cookeville, Putnam County, Tennessee

FOR THE OPERATION OF

Fixed Bed bio-reactor to a fenced drip dispersal field system located at latitude 36.209862 and longitude -85.47884 in Putnam County, Tennessee to serve 71 RV sites and an office space by the Nguyen RV Park Treatment Facility. The design capacity of the system is .009175 MGD and will be dispersed on approximately 1.2 acres of suitable soils.

This permit is issued as a result of the application filed on September 9, 2024, in the office of the Tennessee Division of Water Resources. This permit is contingent on the submission and department approval of construction plans, specifications and other data in accordance with rules of the department. Updated plans and specifications must be approved before any further construction activity.

This permit shall become effective on:

This permit shall expire on:

Issuance date:

for April Grippo
Director

A. GENERAL REQUIREMENTS

The treatment system shall be monitored by the permittee as specified below:

| <u>Parameter</u> | <u>Sample Type</u> | <u>Daily Maximum</u> | <u>Monthly Average</u> | <u>Measurement Frequency</u> |
|------------------|--------------------|----------------------|------------------------|------------------------------|
| Flow * | Totalizer | | | Daily |
| BOD ₅ | Grab | 45 mg/l | N/A | Once/Year |
| Ammonia as N | Grab | Report | N/A | Once /Quarter |
| <i>E. Coli</i> | Grab | 941 colonies/100 ml | N/A | Once /Quarter |

No E. Coli monitoring if fields are fenced

* Report average daily flow for each calendar month.

Sampling requirements in the table above apply to effluent being discharged to the drip irrigation plots.

This permit allows the operation of a wastewater drip irrigation, treatment, and storage system with disposal of treated wastewater through approved drip dispersal areas. There shall be no discharge of wastewater to any surface waters or to any location where it is likely to enter surface waters. There shall be no discharge of wastewater to any open throat sinkhole. In addition, the drip irrigation system shall be operated in a manner preventing the creation of a health hazard or a nuisance.

TDEC's approval of this land application waste treatment system shall not be construed as creating a presumption of correct operation nor as warranting by the commissioner that the approved facilities will reach the designated goals. T.C.A. § 69-3-108(i). Similarly, TDEC's issuance of a state operating permit in no way guarantees that this land application system will function properly. Notwithstanding these approvals, owners and operators are required to ensure that operation of this system does not result in pollution of waters of the state, including groundwater.

The land application component shall be operated and maintained to ensure complete hydraulic infiltration within the soil profile, transmission of the effluent away from the point of application, and full utilization of the soil profile as a portion of the treatment system.

Instances of surface saturation, ponding or pooling within the land application area as a result of system operation are prohibited. Instances of surface saturation, ponding or pooling shall be promptly investigated and noted on the Monthly Operations Report. The report shall include

details regarding location(s), determined cause(s), the actions taken to eliminate the issue, and the date the corrective actions were made. Any instances of surface saturation, ponding or pooling not associated with a major precipitation event not corrected within three days of discovery shall be reported to the local Environmental Field Office at that time for investigation. Surface saturation, ponding or pooling resulting in the discharge of treated wastewater into Waters of the State or to locations where it is likely to move to Waters of the State shall be immediately reported to the local Environmental Field Office, unless the discharge is separately authorized by a NPDES permit.”

All drip fields shall be fenced sufficiently to prevent or impede unauthorized entry as well as to protect the facility from vandalism. Fencing shall be a minimum of four feet in height. Fencing shall be constructed of durable materials. Gates shall be designed and constructed in a manner to prevent or impede unauthorized entry. All designs are subject to division approval. Fence shall be installed prior to beginning of operation.

All drip lines shall be buried and maintained 6 to 10 inches below the ground surface.

The site shall be inspected by the certified operator or his/her designee, at a minimum, once per fourteen days (default) OR in accordance with an operating and maintenance inspection schedule in the permit administrative file record. The default inspection frequency will apply if an operating and maintenance inspection schedule is not submitted to be a part of the permit administrative file record. The operating and maintenance inspection schedule shall at a minimum evaluate the following via onsite visits or telemetry monitoring or a combination of the two:

- the condition of the treatment facility security controls (doors, fencing, gates, etc.),
- the condition of the drip area security controls (doors, fencing, gates, etc.),
- the condition of the site signage,
- the operational status of the mechanical parts of the treatment system (pumps, filters, telemetry equipment, etc.)
- the condition of the UV bulbs (if applicable)
- the condition of the land application area including the location of any ponding
- the name of the inspector
- the description of any corrective actions

Submission of the schedule, or revisions to the schedule, may be submitted to the division electronically. The schedule shall be submitted on or before the effective date of the permit. The permittee is responsible for maintaining evidence that the schedule, or revisions, have been submitted to the division.

B. MONITORING PROCEDURES

1. Representative Sampling

Samples and measurements taken in compliance with the monitoring requirements specified above shall be representative of the volume and nature of the monitored discharge, and shall be taken at the following location(s):

Effluent to drip irrigation plots.

2. Test Procedures

Unless otherwise noted in the permit, all pollutant parameters shall be determined according to methods prescribed in Title 40, CFR, Part 136.

C. DEFINITIONS

The "daily maximum concentration" is a limitation on the average concentration, in milligrams per liter, of the discharge during any calendar day.

The "**monthly average concentration**", other than for *E. coli* bacteria, is the arithmetic mean of all the composite or grab samples collected in a one-calendar month period.

A "grab sample" is a single influent or effluent sample collected at a particular time.

For the purpose of this permit, "*continuous monitoring*" means collection of samples using a probe and a recorder with at least one data point per dosing cycle.

A "quarter" is defined as any one of the following three-month periods: January 1 through March 31, April 1 through June 30, July 1 through September 30, and/or October 1 through December 31.

"Wastewater" for the purpose of this permit means "sewage" as defined in TCA 69-3-103

D. REPORTING

1. Monitoring Results

Monitoring results shall be recorded consistent with the general requirements imposed in Part A above OR in accordance with the operating and maintenance inspection schedule in the permit administrative file record and submitted quarterly.

Submittals shall be postmarked no later than 15 days after the completion of the reporting period. A copy should be retained for the permittee's files. Monitoring results shall be reported in a format approved by the division. Operation reports and any communication regarding compliance with the conditions of this permit must be sent to:

Division of Water Resources
Cookeville Environmental Field Office
1221 South Willow Avenue
Cookeville, TN 38506

Sampling results may be submitted electronically to: DWRWW.Report@tn.gov.

The first operation report is due on the 15th of the month following the quarter containing the permit effective date. Until the construction of the treatment system is complete and the treatment system is placed into operation, operational reports shall report “monitoring not required”.

2. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in Rule 0400-40-05-.07(2)(h)2, the results of such monitoring shall be included in the calculation and reporting of the values required in the Quarterly Operation Report. Such increased frequency shall also be indicated.

3. Falsifying Reports

Knowingly making any false statement on any report required by this permit may result in the imposition of criminal penalties as provided for in Section 69-3-115 of the Tennessee Water Quality Control Act.

4. Signatory Requirement

All reports or information submitted to the commissioner shall be signed and certified by the persons identified in Rules 0400-40-06-.03 (4) (a-c).

PART II

A. GENERAL PROVISIONS

1. Duty to Reapply

The permittee is not authorized to discharge after the expiration date of this permit. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information and forms as are required to the Director of Water Resources (the "Director") no later than 180 days prior to the expiration date.

2. Right of Entry

The permittee shall allow the Director, or authorized representatives, upon the notification of permittee and presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or where records are required to be kept under the terms and conditions of this permit, and at reasonable times to copy these records;

b. To inspect at reasonable times any monitoring equipment or method or any collection, treatment, pollution management, or discharge facilities required under this permit; and

c. To sample at reasonable times any discharge of pollutants.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Water Resources.

4. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems (and related appurtenances) for collection and treatment which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory and process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. Backup continuous pH and flow monitoring equipment are not required.

The monitoring frequency stated in this permit shall not be construed as specifying a minimum level of operator attention to the facility. It is anticipated that visits to the treatment facility by the operator will occur at intervals frequent enough to assure proper operation and maintenance, but in no case less than one visit every fourteen days OR in accordance with an operating and maintenance inspection schedule in the permit administrative file record. If monitoring reports, division's inspection reports, or other information indicates a problem with the facility, the permittee may be subject to enforcement action and/or the permit may be modified to include increased parameter monitoring, increased monitoring frequency or other requirements as deemed necessary by the division to correct the problem. The permittee shall ensure that the certified operator is in charge of the facility and observes the operation of the system frequently enough to ensure its proper operation and maintenance regardless of the monitoring frequency stated in the permit.

Dilution water shall not be added to comply with effluent requirements.

5. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

6. Severability

The provisions of this permit are severable. If any provision of this permit due to any circumstance, is held invalid, then the application of such provision to other circumstances and to the remainder of this permit shall not be affected thereby.

7. Other Information

If the permittee becomes aware that he failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, then he shall promptly submit such facts or information.

B. CHANGES AFFECTING THE PERMIT

1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility.

2. Permit Modification, Revocation, or Termination

a. This permit may be modified, revoked and reissued, or terminated for cause as described in Section 69-3-108 (h) of the Tennessee Water Quality Control Act as amended.

b. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

3. Change of Ownership

This permit may be transferred to another person by the permittee if:

a. The permittee notifies the Director of the proposed transfer at least 30 days in advance of the proposed transfer date;

b. The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage, and liability between them; and

c. The Director, within 30 days, does not notify the current permittee and the new permittee of his intent to modify, revoke or reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

4. Change of Mailing Address

The permittee shall promptly provide to the Director written notice of any change of mailing address. In the absence of such notice the original address of the permittee will be assumed to be correct.

C. NONCOMPLIANCE

1. Effect of Noncompliance

Any permit noncompliance constitutes a violation of applicable State laws and is grounds for enforcement action, permit termination, permit modification, or denial of permit reissuance.

2. Reporting of Noncompliance

a. 24-Hour Reporting

In the case of any noncompliance which could cause a threat to public drinking supplies, or any other discharge which could constitute a threat to human health or the environment, the required notice of non-compliance shall be provided to the appropriate Division environmental field office within 24 hours from the time the permittee becomes aware of the circumstances. (The environmental field office should be contacted for names and phone numbers of emergency response personnel.)

A written submission must be provided within five days of the time the permittee becomes aware of the circumstances unless this requirement is waived by the Director on a case-by-case basis. The permittee shall provide the Director with the following information:

- i. A description of the discharge and cause of noncompliance;
- ii. The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- iii. The steps being taken to reduce, eliminate, and prevent recurrence of the non-complying discharge.

b. Scheduled Reporting

For instances of noncompliance which are not reported under subparagraph 2.a. above, the permittee shall report the noncompliance on the Quarterly Operation Report. The report shall contain all information concerning the steps taken, or planned, to reduce, eliminate, and prevent recurrence of the violation and the anticipated time the violation is expected to continue.

3. Overflow

a. "**Overflow**" means the discharge of wastewater from any portion of the collection, transmission, or treatment system other than through permitted outfalls.

b. Overflows are prohibited.

c. The permittee shall operate the collection system so as to avoid overflows.

d. No new or additional flows shall be added upstream of any point in the collection system, which experiences chronic overflows (greater than 5 events per year) or would otherwise overload any portion of the system. Unless there is specific enforcement action to the contrary, the permittee is relieved of this requirement after: 1) an authorized representative of the Commissioner of the Department of Environment and Conservation has approved an engineering report and construction plans and specifications prepared in accordance with accepted engineering practices for correction of the problem; 2) the correction work is underway; and 3) the cumulative, peak-design, flows potentially added from new connections and line extensions upstream of any chronic overflow point are less than or proportional to the amount of inflow and infiltration removal documented upstream of that point. The inflow and infiltration reduction must be measured by the permittee using practices that are customary in the environmental engineering field and reported in an attachment to a Monthly Operating Report submitted to the local TDEC Environmental Field Office on a quarterly basis. The data measurement period shall be sufficient to account for seasonal rainfall patterns and seasonal groundwater table elevations.

e. In the event that more than 5 overflows have occurred from a single point in the collection system for reasons that may not warrant the self-imposed moratorium or completion of the actions identified in this paragraph, the permittee may request a meeting with the Division of Water Resources EFO staff to petition for a waiver based on mitigating evidence.

4. Upset

a. "**Upset**" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the permittee

demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- i. An upset occurred and that the permittee can identify the cause(s) of the upset;
- ii. The permitted facility was at the time being operated in a prudent and workman-like manner and in compliance with proper operation and maintenance procedures;
- iii. The permittee submitted information required under "Reporting of Noncompliance" within 24-hours of becoming aware of the upset (if this information is provided orally, a written submission must be provided within five days); and
- iv. The permittee complied with any remedial measures required under "Adverse Impact."

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the waters of Tennessee resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

6. Bypass

- a. "**Bypass**" is the intentional diversion of wastewater away from any portion of a treatment facility.
- b. Bypasses are prohibited, unless:
 - i. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - iii. For anticipated bypass, the permittee submits prior notice, if possible at least ten days before the date of the bypass; or
 - iv. For unanticipated bypass, the permittee submits notice of an unanticipated bypass within 24 hours from the time that the permittee becomes aware of the bypass.

c. A bypass that does not cause effluent limitations to be exceeded may be allowed only if the bypass is necessary for essential maintenance to assure efficient operation.

d. "Severe property damage" when used to consider the allowance of a bypass means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

D. LIABILITIES

1. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Notwithstanding this permit, the permittee shall remain liable for any damages sustained by the State of Tennessee, including but not limited to fish kills and losses of aquatic life and/or wildlife, as a result of the discharge of wastewater to any surface or subsurface waters. Additionally, notwithstanding this Permit, it shall be the responsibility of the permittee to conduct its wastewater treatment and/or discharge activities in a manner such that public or private nuisances or health hazards will not be created.

2. Liability Under State Law

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law.

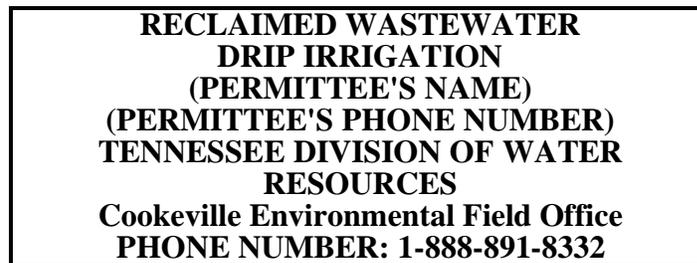
PART III OTHER REQUIREMENTS

A. CERTIFIED OPERATOR

The waste treatment facilities shall be operated under the supervision of a Biological Natural System certified wastewater treatment operator in accordance with the Water Environmental Health Act of 1984.

B. PLACEMENT OF SIGNS

The permittee shall place a sign at the entrance to the land application area if fenced or all reasonable approaches to the land application area. The sign should be clearly visible to the public. The minimum sign size should be two feet by two feet (2' x 2') with one inch (1") letters. The sign should be made of durable material



No later than sixty (60) days from the effective date of the permit, the permittee shall have the above sign(s) on display in the location specified. New facilities must have the signs installed upon commencing operation.

C. ADDITION OF WASTE LOADS

The permittee may not add wasteloads to the existing treatment system without the knowledge and approval of the division.

D. SEPTIC (STEP) TANK OPERATION

The proper operation of this treatment system depends, largely, on the efficient use of the septic tank. The solids that accumulate in the tank shall be removed at a frequency that is sufficient to insure that the treatment plant will comply with the discharge requirements of this permit.

E. SEPTAGE MANAGEMENT PRACTICES

The permittee must comply with the provisions of Rule 0400-48-01-.22. If the septage is transported to another POTW for disposal, the permittee shall note the amount of septage wasted in gallons and name of the facility the hauler intends to use for disposal of the septage on the monthly operation report. Sludge or any other material removed by any treatment works must be disposed of in a manner which prevents its entrance into or pollution of any surface or subsurface waters. Additionally, the disposal of such sludge or other material must be in compliance with the Tennessee Solid Waste Disposal Act, TCA 68-31-101 et seq. and Tennessee Hazardous Waste Management Act, TCA 68-46-101 et seq.

F. OWNERSHIP OF THE TREATMENT FACILITIES

a. The permittee shall own the treatment facilities (and the land upon which they are constructed) including the land to be utilized for wastewater dispersal. A perpetual easement (properly recorded) may be accepted in lieu of ownership. Evidence of ownership of the treatment facility land application site(s) and/or a copy of the perpetual easement(s) must be furnished to the division for approval prior to construction of the wastewater collection and dispersal system. Signed agreements stating the intent of the existing landowner to transfer ownership may be provided to support permit issuance. Evidence of such ownership or access rights must be provided to, and approved by, the Commissioner prior to commencement of operation.

b. Where the treatment facility serves private homes, condominiums, apartments, retirement homes, nursing homes, trailer parks, or any other place where the individuals being served have property ownership, rental agreements, or other agreements that would prevent their being displaced in the event of abandonment or noncompliance of the sewerage system, ownership of the treatment facilities must be by a municipality, a public utility, a wastewater authority, or a privately owned public utility (having a Certificate of Convenience and Necessity from the Tennessee Public Utility Commission) or another public agency.

Attachment 1

RATIONALE

Judy Nguyen
STATE OPERATION PERMIT NO. SOP-24024
Cookeville, Putnam County, Tennessee

Permit Writer: Bryan Pope

FACILITY CONTACT INFORMATION:

Judy Nguyen
Owner
Phone: () 284-5526
peachtreeshortermrental@gmail.com
3147 Fisk Road
Cookeville, TN 38506

- Activity Description:** Treatment of domestic wastewater via a decentralized waste water system to support construction of Nguyen RV Park Treatment Facility
- Facility location:** Latitude 36.209862 and Longitude -85.47884
- Name of the nearest stream:** No discharge allowed.
- Treatment system:** Fixed Bed bio-reactor to a fenced drip dispersal field
- Permit period:** This permit will be issued for a five year period effective from the issuance date on the title page.
- Terms & Conditions:** BOD₅ is a standard measure of sewage strength. The 45 mg/L daily maximum limit is the required treatment standard for domestic waste water in Tennessee. Ammonia and BOD₅ reporting serve to demonstrate the treatment system is meeting minimum treatment standards. Land application, versus stream discharge, enables reduced monitoring frequency for these parameters. Narrative conditions for drip disposal and septage management are proposed in support of proper system operation to prevent runoff to streams and avoidance of nuisance conditions. E.coli limits apply when the disposal area is not fenced.
- Financial Security:** Privately-owned public utilities provide financial security to the Public Utility Commission to comply with TCA 69-3-122.
- Annual Maintenance Fee:** An annual maintenance fee for the permit will apply after permit issue and upon receipt of an invoice. The fee is currently \$350.00 for non-discharging facilities with influent flow less than 0.075 MGD.

**Items Requisite for
Operation:**

This draft permit proposes terms and conditions for planning purposes and to seek public comment on the potential water quality impacts of the proposed activity. Actual operation of the sewerage system is contingent on the following items (items may occur in any order):

- Approval of sewerage system construction plans and specifications per TCA 69-3-108(i),
- Final construction inspection and submission of O &M manual per Rule 0400-40-02-.09,
- Issuance of a Certificate of Convenience and Necessity (CCN) by the Public Utility Commission,
- Utility ownership of sewerage system assets consistent with Rule 0400-40-16-.02(8). Sewerage system assets broadly consist of those units integral to the collection, treatment and disposal of both the solid and liquid component of sewage (i.e. septic tanks and pumps, collection lines, treatment system and drip irrigation area and related appurtenances), and
- Final issue of the permit.