

**BEFORE THE TENNESSEE PUBLIC UTILITY
COMMISSION AT NASHVILLE, TENNESSEE**

**IN RE: ISHA FOUNDATION, INC.)
PETITION OF DETERMINATION)**

22-00099

DOCKET NO.

**TO DETERMINE THAT A)
CERTIFICATE OF PUBLIC)
CONVENIENCE AND NECESSITY IS)
NOT REQUIRED FOR ISHA's)
PROGRAM ACCOMMODATION)
BLOCK)**

PETITION OF DETERMINATION

Pursuant to Tenn. Code Ann. 65-2-103, et seq. and Tenn. Code Ann. 65-4-201, et seq (collectively, the "Code"), Isha Foundation, Inc., a Tennessee Nonprofit Corporation, ("Petitioner"), by and through counsel, submits this Petition of Determination ("Petition") requesting the Tennessee Public Utility Commission ("Commission" or "TPUC") to determine that a Certificate of Public Convenience and Necessity ("CCN") is not required or necessary for Petitioner's proposed Program Accommodations Block project to be located on a portion of real property known as Isha Campus, and being more particularly described in Section II(6) hereof ("Project"). In support of Petitioner's position that a CCN is not required, Petitioner states as follows:

I.

DESCRIPTION OF PETITIONER, ISHA FOUNDATION, INC

1. Petitioner is a Tennessee Nonprofit corporation formed on November 23, 1998.

2. The President of Isha Foundation, Inc. is Kalpana Rajdev.
3. Petitioner's principal place of business is located at 951 Isha Lane, McMinnville, TN 37110.
4. Petitioner's services include, but are not limited to, managing, supervising, and obtaining entitlements, consents, licenses, permits, and approvals necessary for the operation of the Project.
5. All correspondence and communication with respect to this Petition should be sent to the following:

Isha Foundation, Inc.
Attn: Kalpana Rajdev
951 Isha Lane
McMinnville, TN 37110
Email: kalpana@ishausa.org

Austin, Davis & Mitchell
Attn: Thomas K. Austin
PO BOX 666
Dunlap, TN 37327
Email: taustin@austindavismitchell.com
(423) 949-4159 (office)
(423) 949-4589 (fax)

II.

DESCRIPTION OF PROJECT AND SYSTEM

6. Petitioner has a permit from Warren County to construct the Project, which is described as the Program Accommodations Block at 951 Isha Lane, McMinnville, TN 37110 which will consist of 900 studios to be used as program accommodations by Petitioner.
7. The purpose of the Project is to provide additional program accommodation space for members of the public attending the programs conducted onsite by Petitioner at the Isha Campus.

8. Petitioner has engaged Site Engineering Consultants, Inc. as the consulting engineers for the proposed Project and waste water system ("System").

9. The proposed System servicing the Project will consist of an onsite non-traditional wastewater treatment and drip disposal system, septic tanks, pump tanks, recirculating packed bed treatment filters, ultraviolet disinfection back-up storage pond, subsurface drip irrigation disposal field, and reserve subsurface drip irrigation disposal field.

10. The estimated peak daily wastewater flow is 115,250 gallons per day.

11. The System will not serve any permanent residences and will be constructed to serve only the Project.

12. The System will be privately owned by Petitioner and Petitioner will contract with a licensed and certified operator to perform the day-to-day operations, maintenance, and periodic testing of the system in accordance with the Permit, as hereafter defined.

13. The System will not serve as a public utility (as defined in the Code) providing wastewater service.

14. Petitioner will not charge or collect any fees, rates, or dues for use of the System, and if Petitioner, in the future, considers providing public utility services, Petitioner shall promptly file a petition for a CCN pursuant to the Code and Commission's rules and regulations.

15. Petitioner has the financial capability to construct and install the System.

16. Petitioner has made application with the Tennessee Department of Environment and Conservation to obtain the State Operating Permit ("Permit") for the System, which is attached hereto as Exhibit C, and incorporated herein by reference.

17. In further support of its Petition, the following exhibits are attached hereto:

a. Exhibit A: Pre-Filed Testimony of Kalpana Rajdev

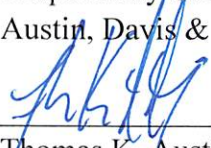
- b. Exhibit B: Site Plan for the Project
- c. Exhibit C: Application for Draft State Operating Permit
- d. Exhibit D: Letter from Jamie Reed P.E, R.L.S. dated October 12, 2022.

THEREFORE, Petitioner respectfully requests:

1. That the Commission determine that a CCN is not required for the construction, installation, or operation of the System for the Project;
2. That the Commission provide written confirmation to Petitioner that a CCN is not required so that Petitioner may submit the same to the Tennessee Department of Environment and Conservation and any other regulatory agencies or municipalities involved with approving the Project and the System; and
3. That the Commission grants such other and/or further relief as may be warranted.

This the 13th day of October, 2022.

Respectfully Submitted,
Austin, Davis & Mitchell



Thomas K. Austin BPR#31009
Counsel for Petitioner
PO BOX 666
Dunlap, TN 37327

VERIFICATION OF PETITIONER

I, Kalpana Rajdev, President of Isha Foundation, Inc., a Tennessee Nonprofit corporation, the Petitioner, verify that based on information and belief, I have knowledge of the statements in the foregoing Petition, and I declare that they are true and correct.

Kalpana Rajdev

Sworn to and subscribed before me, the undersigned Notary Public, on this 12th day of October, 2022.

Manuela McCusker

Notary Public

My commission expires:

August 27, 2025



CERTIFICATE OF SERVICE

The undersigned hereby certifies that a true and exact copy of the foregoing has been served upon the person(s) listed below this 12th day of October, 2022

Chairman Herbert H. Hilliard
Tennessee Public Utility Commission
502 Deaderick, 4th Floor
Nashville, Tennessee
37243

Thomas K. Austin

Thomas K. Austin

EXHIBIT A

Pre-Filed Testimony of Kalpana Rajdev

**IN RE: ISHA FOUNDATION, INC.)
PETITION OF DETERMINATION)**

**TO DETERMINE THAT A
CERTIFICATE OF PUBLIC
CONVENIENCE AND NECESSITY IS
NOT REQUIRED FOR ISHA's
PROGRAM ACCOMMODATION
BLOCK**

PRE-FILED TESTIMONY OF KALPANA RAJDEV

A. My name is Kalpana Rajdev. My business address is 951 Isha LN, McMinnville, TN 37110.

A. I am the President of Isha Foundation, Inc. (“Isha”).

A. No.

A. I am a medical doctor, specializing in Family Medicine and Geriatrics. I worked in long term care setting as Medical Director of two skilled care nursing homes for 15 years.

A. Isha has been in existence since November 23, 1998.

A. Isha is an internationally recognized non-profit 501(c)(3) charitable organization whose primary mission is to improve the physical, mental and spiritual well-being of all individuals

regardless of religion, race, creed, age or gender. Established over thirty-five years ago by Sadhguru Jaggi Vesudev, today Isha is run by 11 million volunteers in more than 300 city centers across the world. At the core of the Isha's activities is a customized system of physical exercises and meditations called Isha Yoga which distills powerful yogic methods for young and old alike, creating peak physical, mental and spiritual well-being. Isha also implements several large-scale human service projects to support individual growth, revitalize the human spirit, rebuild communities, and restore the environment. Isha's numerous charitable activities and community outreach have gained international accolades and have been recognized by the United Nations and governments throughout the world.

Isha is also responsible for obtaining the necessary entitlements, consents, permits, licenses, and approvals related to the proposed Rural Retreat Project and also for coordinating the installation and construction of the Project's infrastructure, wastewater system, and other improvements related to the Project.

Q7. Please describe the proposed project to be located at 951 Isha Lane.

A. The proposed project is a part of a rural retreat campus maintained by Isha at 951 Isha Lane, TN 37110 ("Isha Campus"). The Isha Campus has meditation halls for conducting residential yoga programs, hiking trails, a wellness center, and dining facilities serving healthy vegetarian meals for daily visitors. Isha receives more than 12,000 visitors every year at the Isha Campus. In addition, Isha conducts residential programs for approximately 5000 program participants each year. The proposed project of studio buildings ("Project") is critically needed to increase accommodations for the growing number of Isha residential programs offered to the public. The proposed wastewater system servicing the Project will consist of an on-site non-traditional wastewater treatment and drip disposal system, septic tanks, pump tanks, recirculating sand filter, ultraviolet disinfection, subsurface drip irrigation disposal field, and reserve subsurface drip irrigation disposal field ("System"). The estimated peak daily wastewater flow is 115,250 gallons per day.

Q8. What is the purpose of the Petition Isha Foundation, Inc. has filed?

A. That the Commission determine that a CCN is not required for the construction, installation, or operation of the System for the Project, which would allow Isha to proceed with obtaining the necessary approvals, licenses, permits, and consents from the Tennessee Department of Environment and Conservation, Warren County Planning Commission, and any other regulatory bodies and municipalities having jurisdiction over the Project and System.

Q9. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony is to provide information on Isha and explain the intent and scope of the Project and System.

Q10. What is the status of the Project?

A. The Project will have a total of six (6) buildings of which construction has already begun on two (2) of the buildings (84 units each). One of the buildings is expected to be finished by early next year and the other by the middle of the next year.

Q11. Will the System be provided as a public utility?

A. No. The System will not serve as a public utility providing wastewater service. The System will be privately owned, will not serve any permanent residences, and will be constructed to serve only the Project.

Q12. Will the Petitioner charge, collect fees, rates, or dues for the use of the System?

A. No. Petitioner will not charge or collect any fees, rates, or dues for use of the System. If Petitioner, in the future, considers providing public utility services, Petitioner will promptly file a petition for a CCN pursuant to the Code and Commission's rules and regulations.

Q13. Who will own, operate, and maintain the System?

A. The System will be privately owned by Petitioner. Petitioner will contract with a licensed and certified waste treatment operator to perform the day-to-day operations, maintenance, and periodic testing of the System in accordance with the Permits and the Water Environmental Health Act of 1984.

Q14. Are you sponsoring any exhibits other than this Pre-Filed Testimony?

A. Yes. I am sponsoring the following exhibits:

Exhibit B: Site Plan for Isha Foundation, Inc.

Exhibit C: Application for Draft State Operating Permit

Exhibit D: Letter from Jamie Reed P.E, R.L.S. dated October 12, 2022

Q15. Were the exhibits listed above prepared by you or under your direction and supervision?

A. Yes.

Q16. What do you recommend with regard to the Petition?

A. I recommend that the Petition be approved to not require a CCN.

Q17. Does this complete your testimony?

A. Yes, and I am ready to provide any additional information the Commission may need in making its decision.

AFFIDAVIT

My name is Kalpana Rajdev and the attached direct testimony is true and correct to the best of my knowledge.

Kalpana Rajdev

State of Tennessee

County of Warren

On the 12th day of October, 2022, personally appeared before me Manuela McCusker, a notary public, the above named Kalpana Rajdev known to me personally who was duly sworn and on oath executed the above Affidavit.

Manuela McCusker

Notary

My commission expires: Aug 27, 2025



My Commission Expires
August 27, 2025

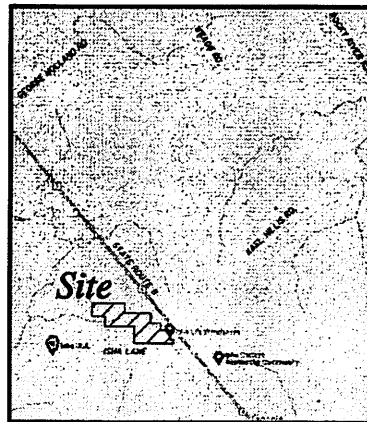
EXHIBIT B
SITE PLAN

Isha Studios

Wastewater Treatment, STEP System Collection and Drip Dispersal Plans Van Buren County, Tennessee S.O.P. No. _____ Construction Drawings

Drawing Index

Sheet No.	Title
C0.0	Cover Sheet
C0.1	Master Plan
C1.0-1.7	STEP Collection Plans
C2.0-2.7	Wastewater Treatment Plans
C3.0	Notes & Details
C3.1-3.9	STEP Details



Site Location Map
Not To Scale

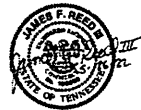


SEC, Inc. SITE ENGINEERING CONSULTANTS

ENGINEERING • SURVEYING • LAND PLANNING
LANDSCAPE ARCHITECTURE
850 MIDDLE TENNESSEE BOULEVARD • HUNTSVILLE, TENNESSEE 37139
PHONE: (615) 893-7901 • FAX: (615) 893-2567
E-MAIL: TREED@SEC-CIVIL.COM

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By: James F. Reed III Date: May 26, 2022
James F. Reed III, P.E. TN. Reg. #109038



Owner/Developer:

September Bloom INC.
110 Sara Lane
McMinnville, TN 37110

Floodplain Note:

No Portion Of This Site Lies Within The 100 Year Flood Plain
Per F.E.M.A. Community Panel No. 47179C0175C, Dated April
19th, 2010.

Total Site Land Data:

Total site area: ±31.01 Acres
Proposed Residential Multi-Family Development
Phase 1: Admin Bldg., Welcome Center, & Bldgs. A, B, & C.
Phase 2: Bldgs D, E, & F.

Yard Requirements:

Front: 30'
Secondary Front: 22'
Side: 10'
Rear: 20'

Deed Reference:

The property shown herein is Tax Map 110, Parcel 24.00 in Van
Buren County, as recorded in R.B. 300, Pg 780

STEP Design:

Minimum Design Flow = 1130 Bedrooms x 100 gpd/Room = 150
Employees / Guest x 15 gpd/person = 118,250 gpd
Design Loading Soil Rate = 0.2 gal/sd
Required Land Application Area = 13.23 Acres
Proposed Land Application Area = 13.23 Acres
Required Land Reserve Area = 6.61 Acres
Proposed Land Reserve Area = 6.61 Acres
Total Soil Required = 19.84 Acres
Total Soil Provided = 22.95 Acres

Contacts:

Survey/Engineer/Planning:

See Engineering Consultants, Inc.
850 Middle Tennessee Blvd
Huntsville, TN 37129
Phone: (615) 690-7901
Contact: James F. Reed

Caney Fork Electric Co-Op Inc:

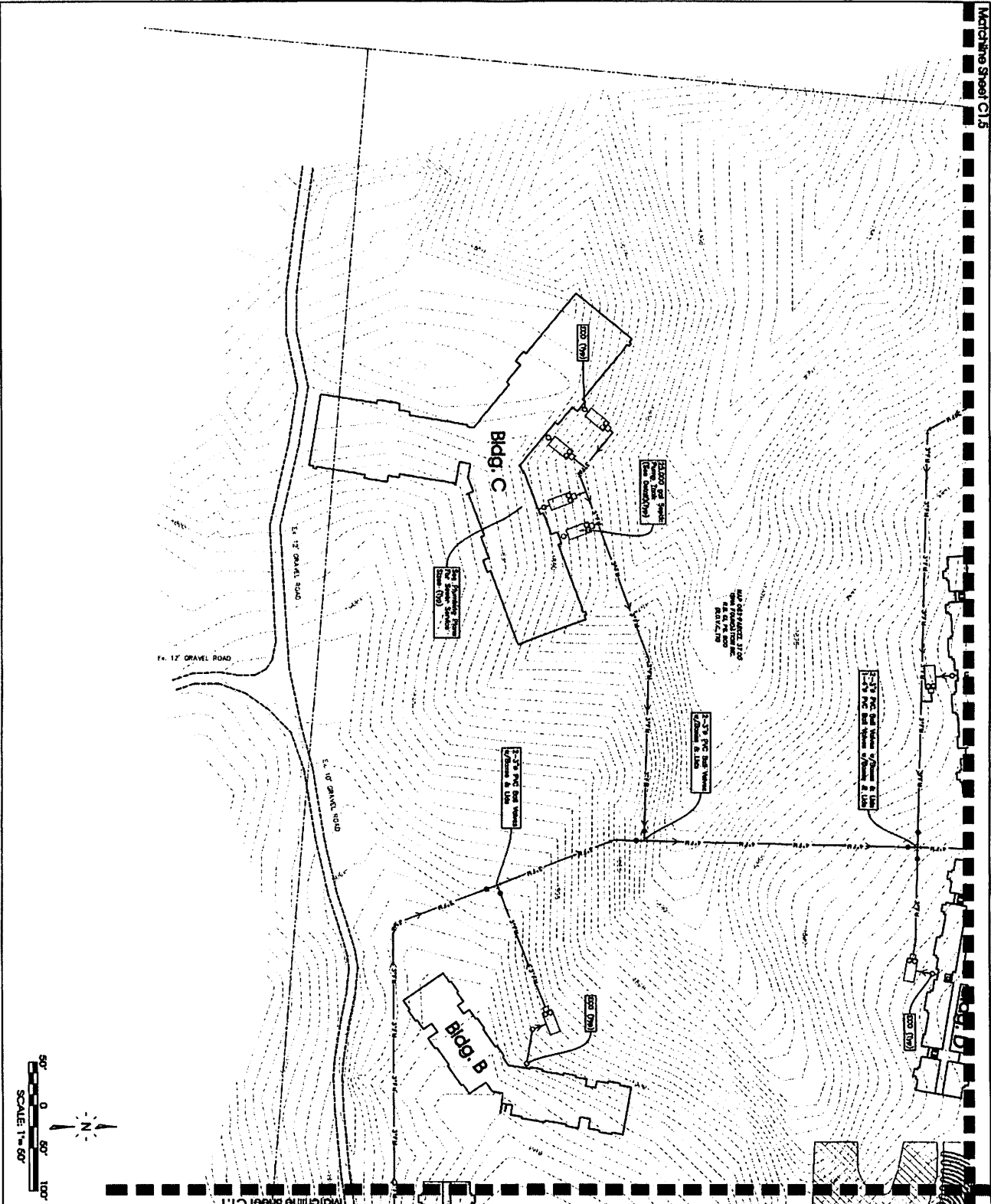
820 Smithville Highway
McMinnville, TN 37110
(615)-473-3118

Warren County Utility District:

Anthony Petham
4034 Sports Highway
McMinnville, TN 37110
Phone: (615)-655-4175

Drainage Basin: Spring Creek (Not Assessed)

Sheet: C0.0
Isha Studios
S.E.C. Project #20060
Date: 2-10-2022
Revised:



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Owner/Developer:

Project Name:

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Legend:

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SEC, Inc.

SITE ENGINEERING CONSULTANTS

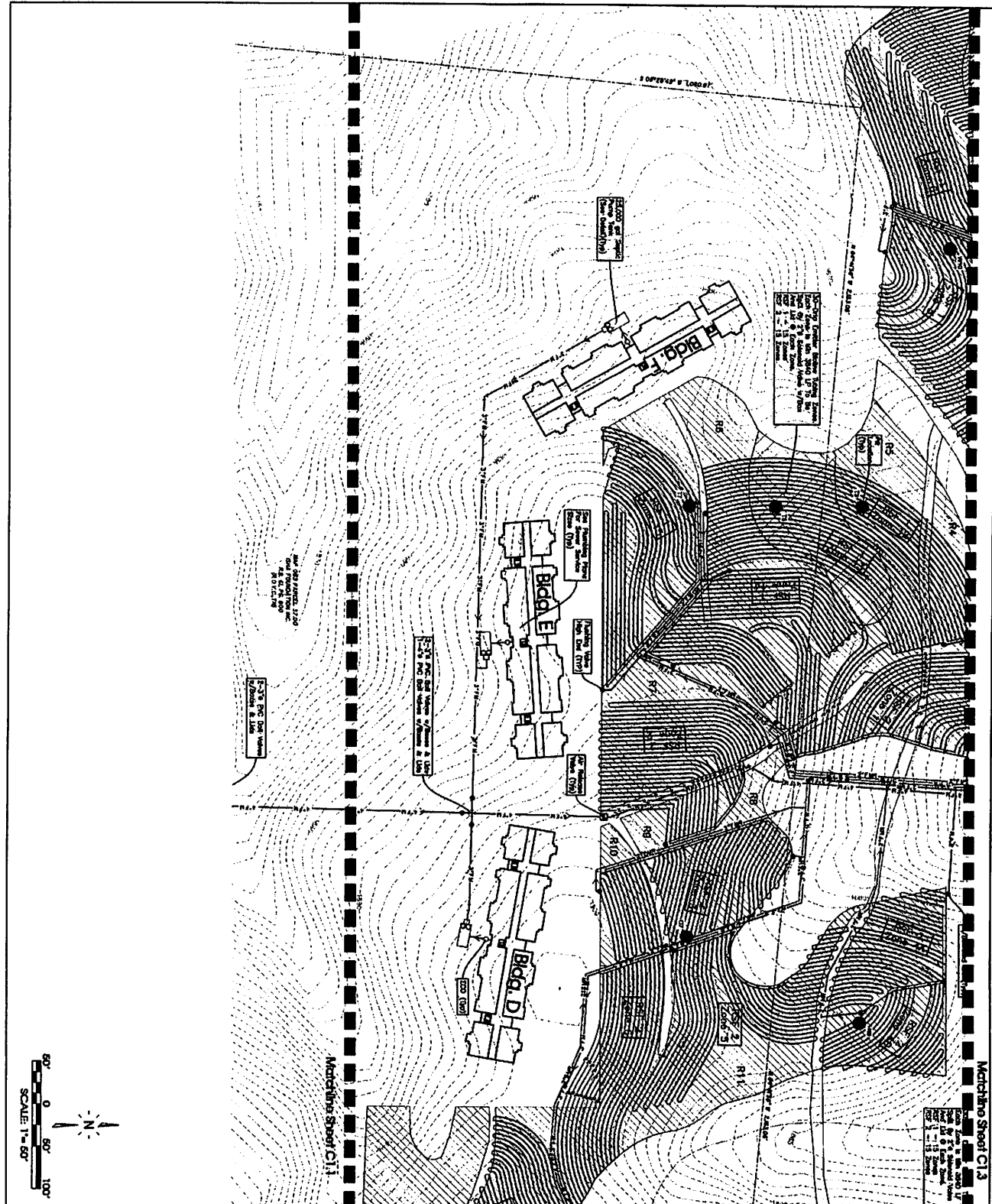
850 MIDDLE TENNESSEE BOULEVARD

MURFREESBORO, TENNESSEE 37139

PHONE: (615) 896-7000

FAX: (615) 896-7001

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Legend

1	EXIST. DRAINAGE	2	PROPOSED DRAINAGE
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Owner/Developer:

Isha Studios

Wastewater Treatment, STEP System, Collection, & Drip Dispersal Plans

Van Buren County, Tennessee

SEC, Inc.

SITE ENGINEERING CONSULTANTS

600 MIDDLE TENNESSEE BOULEVARD • MEMPHIS, TENNESSEE 38117

PHONE: (901) 800-7901 • FAX: (901) 800-7902

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STEP Collection Plan

20060

C1.2

Legend

1" = 60'

0 60' 120'

SCALE: 1" = 60'

Matchline Sheet C13



1. The soil types and locations, as shown for late Kermode are taken from a soil map provided by William Timothy Barker, S.E.C. Inc. assumes no responsibility for the accuracy or completeness of the soils shown herein.

1. Existing utility lines shown are approximate locations only. The contractor shall field verify all existing utility line locations prior to any construction. Any deviations from the design locations shall be reported to the owner or engineer prior to construction.

- The contract will provide all necessary protective measures to safeguard the contractor's interests. The contractor will be responsible for obtaining all necessary permits and licenses for the construction of the project. The contractor will be responsible for obtaining all necessary permits and licenses for the construction of the project. The contractor will be responsible for obtaining all necessary permits and licenses for the construction of the project.

Minor field adjustments may be necessary. The contractor may request to modify the location of the components through the owner and the Tennessee Division of Water Pollution Control.

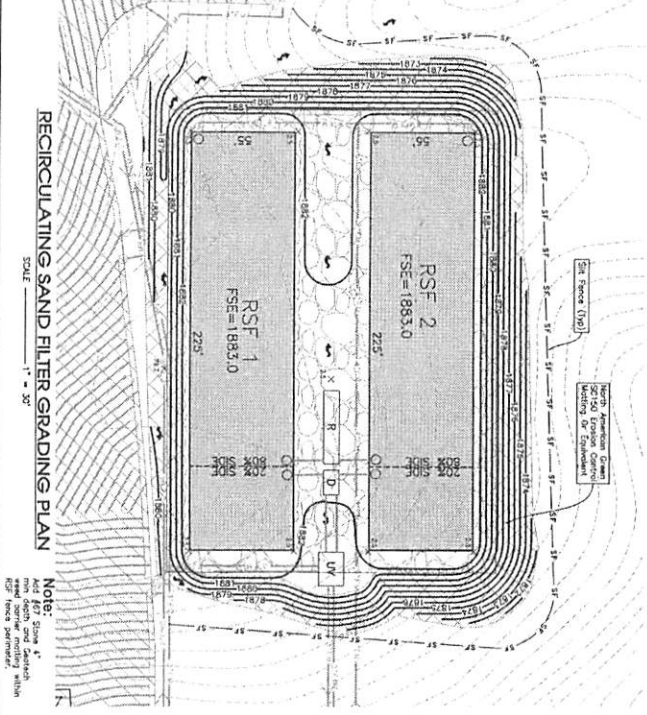
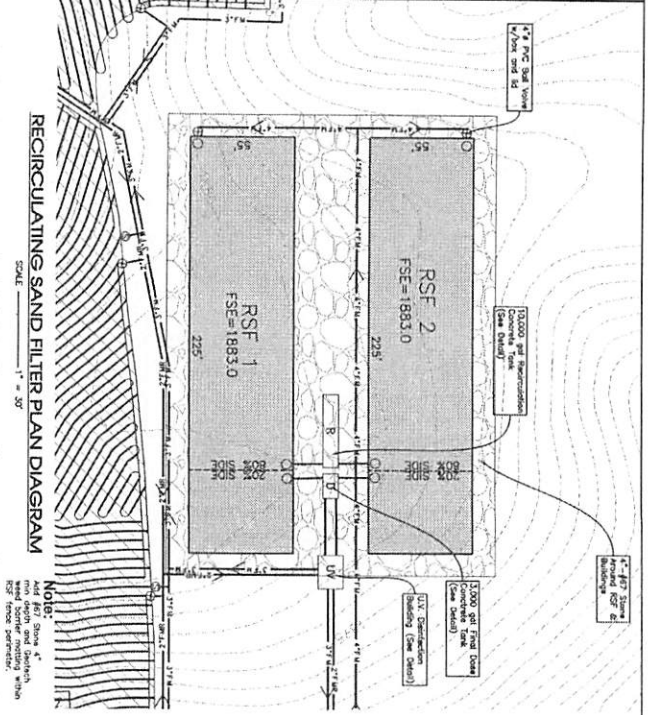
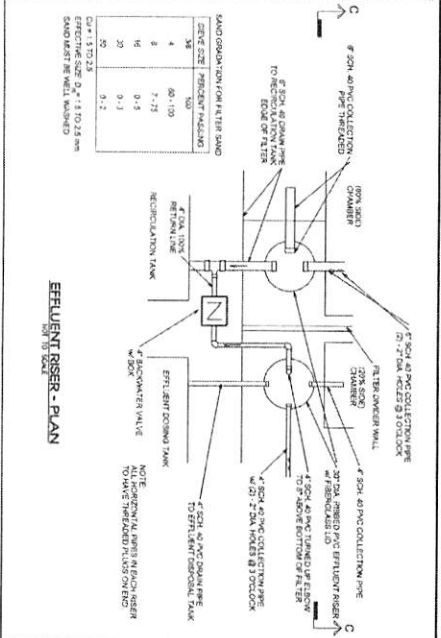
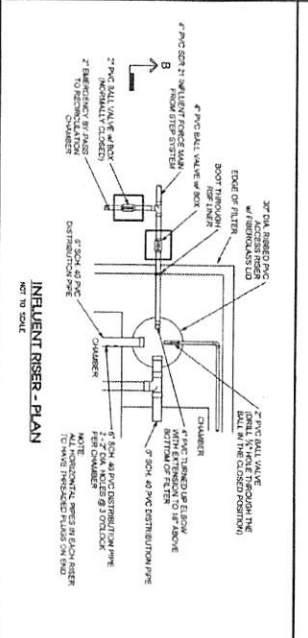
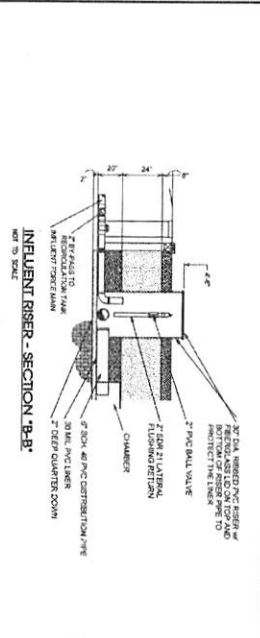
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utilities with his work. All underground utilities (water, storm sewer, and any other miscellaneous underground utilities, devices, or structures), shall be in-place prior to the placement of base course material.

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2. The contractor is responsible for clearing out all storm drainage structures, including flumes, boxes, etc. prior to completion of the project.

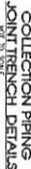
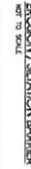
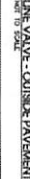
1. Emission control will be provided for all cars and its operations within the limits of the construction law, throughout the construction period to provide the city with maximum protection from erosion at all times.
2. Emission control measures are to be initiated prior to any grading operation and are to be maintained in place until stabilization of erodible soils has been accomplished.
3. The contractor must provide erosion control to minimize erosion in all areas being disturbed in accordance with the current regulations.



POLYMER
Diamond Co.
Date: 7-9-2012
C-CODED
NAT
PLC used:
H008076P
KCAL:
None
JOB no.
20060

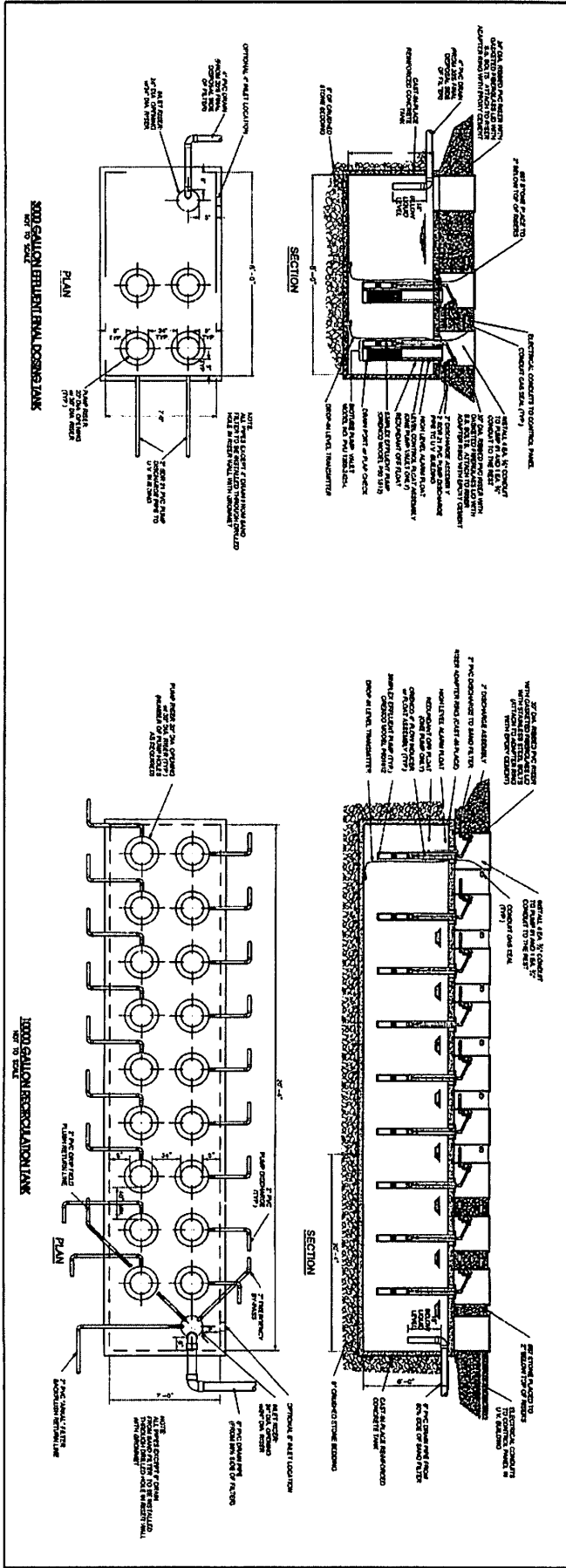
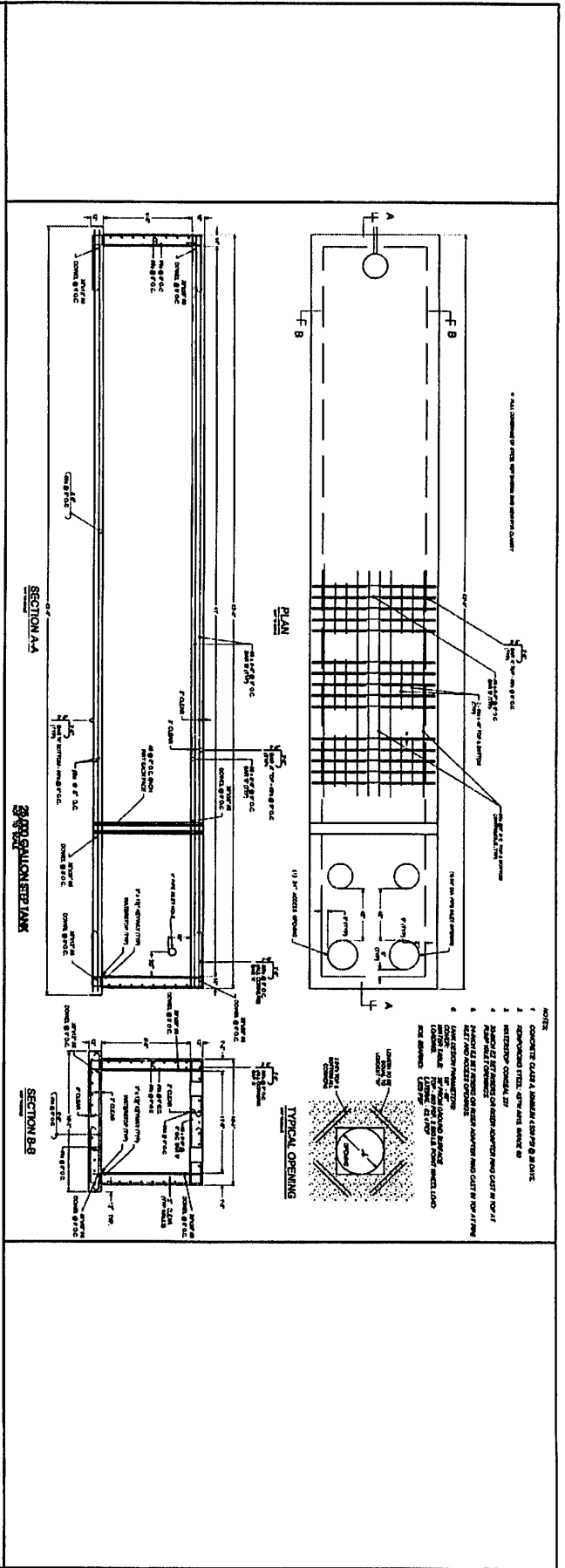
Details

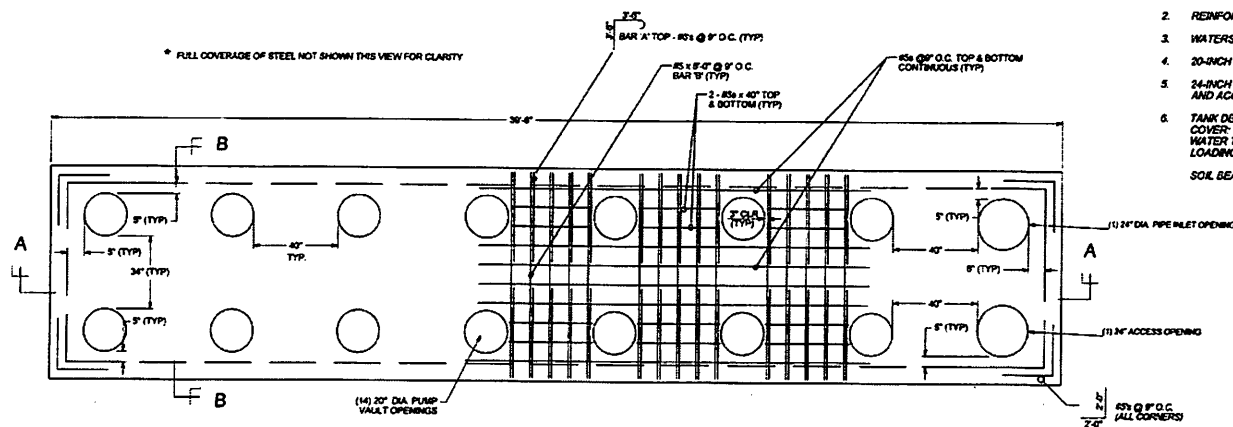
SFC, Inc. **SITE ENGINEERING CONSULTANTS**
 ENGINEERING • SURVEYING • LAND PLANNING
 LANDSCAPE ARCHITECTURE
 430 MIDDLA TENNESSEE BOULEVARD
 MEMPHIS, TENNESSEE 38112
 PHONE: (915) 760-7701 FAX: (915) 765-2762
 NO PORTION OF THIS CHARGES MAY BE ADDED WITHOUT THE EXPRESSED WRITTEN CONSENT OF S & C INC.



SEC, Inc. **SITE ENGINEERING CONSULTANTS**
ENGINEERING • SURVEYING • LAND PLANNING
LANDSCAPE ARCHITECTURE
850 MIDDLE TENNESSEE BOULEVARD MURFREESBORO, TENNESSEE 37129
PHONE: (615) 896-7901 E-MAIL: JREID@SEC-CIVIL.COM FAX: (615) 895-2667
A PORTION OF THE OFFICIAL MAP OF THE ELLIOTT ROAD DEVELOPMENT WAS PREPARED BY SEC, INC.
COPYRIGHT © E & C INC. 2002

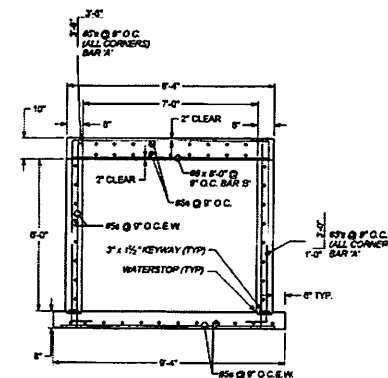
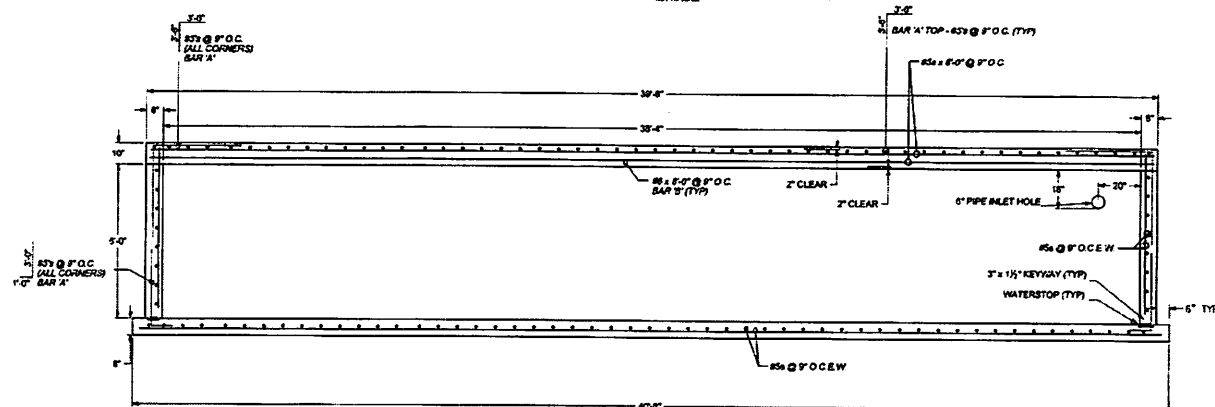
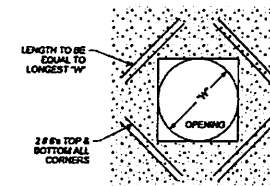
The site as shown on these unimproved drawings is identified as suitable for specific engineering, planning, design and construction. It is the sole responsibility of the user of these drawings to ensure that the site is suitable for the intended use. The user of these drawings is not to be held liable for any errors or omissions in the drawings or for any damage, loss or injury resulting therefrom. The user of these drawings is not to be held liable for any damage, loss or injury resulting therefrom. The user of these drawings is not to be held liable for any damage, loss or injury resulting therefrom.





NOTES:

1. CONCRETE: CLASS A, MINIMUM 4,500 PSI @ 28 DAYS.
2. REINFORCING STEEL: ASTM A615, GRADE 60
3. WATERSTOP: CONSEAL 231.
4. 20-INCH EZ SET RISERS OR RISER ADAPTER RING CAST IN TOP AT PUMP VAULT OPENINGS.
5. 24-INCH EZ SET RISERS OR RISER ADAPTER RING CAST IN TOP AT PIPE INLET AND ACCESS OPENINGS.
6. TANK DESIGN PARAMETERS:
 COVER: 18" - 40"
 WATER TABLE: 30" FROM GROUND SURFACE
 LOADING: TOP - 500 PSF, 2,500 LB. POINT WHEEL LOAD;
 LATERAL - 62.4 PCF
 SOIL BEARING: 1,500 PSF



NOTE:
FOR USE OF ALTERNATE DESIGN SECTION
TOP AND SIDES MUST BE CAST MONOLITHICALLY

CONSOLIDATED UTILITY DISTRICT Rutherford County, Tennessee	10,000 GALLON RECIRCULATION TANK STRUCTURAL PLAN AND SECTIONS		SF-10A
	DATE: MARCH 2022	SCALE: NONE	

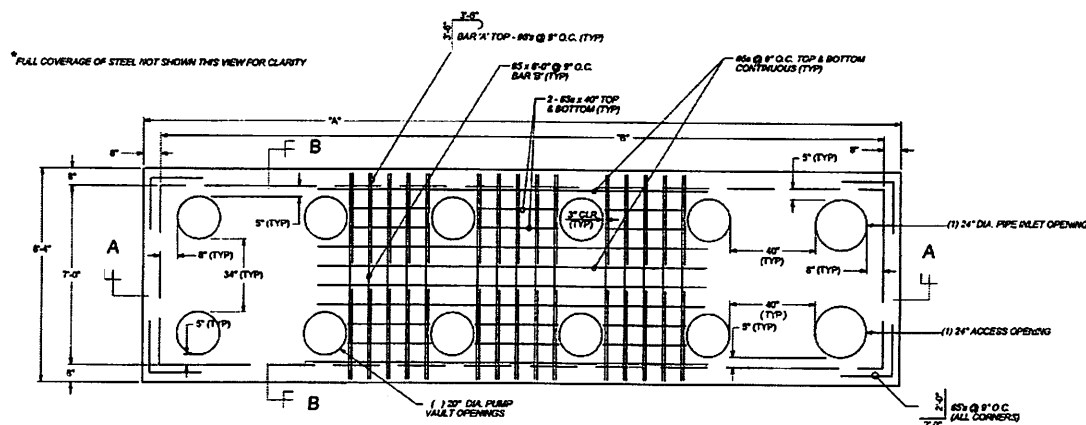
SITE ENGINEERING CONSULTANTS
SEC. Inc.
 800 N. HENRY STREET, SUITE 100
 MEMPHIS, TN 38103
 PHONE: (901) 521-1100
 FAX: (901) 521-1101
 WWW.SECINC.COM

Isha Studios
 Wastewater Treatment, STEP System,
 Collection, & Drip Dispersal Plans
 Van Buren County, Tennessee

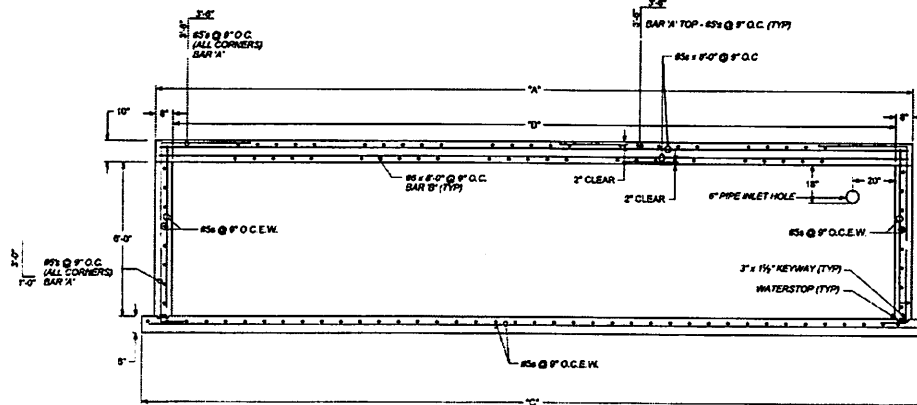
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 DATE 2-15-2022
 CHECKED BY
 DESIGNED BY
 FILE NAME
 SCALE
 SHEET NO. 22060

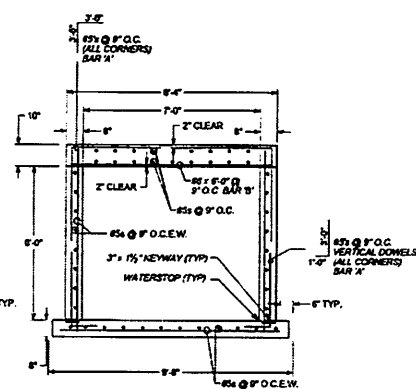
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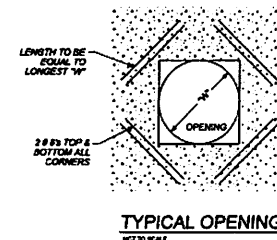
PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



TYPICAL OPENING
NOT TO SCALE

NOTES:

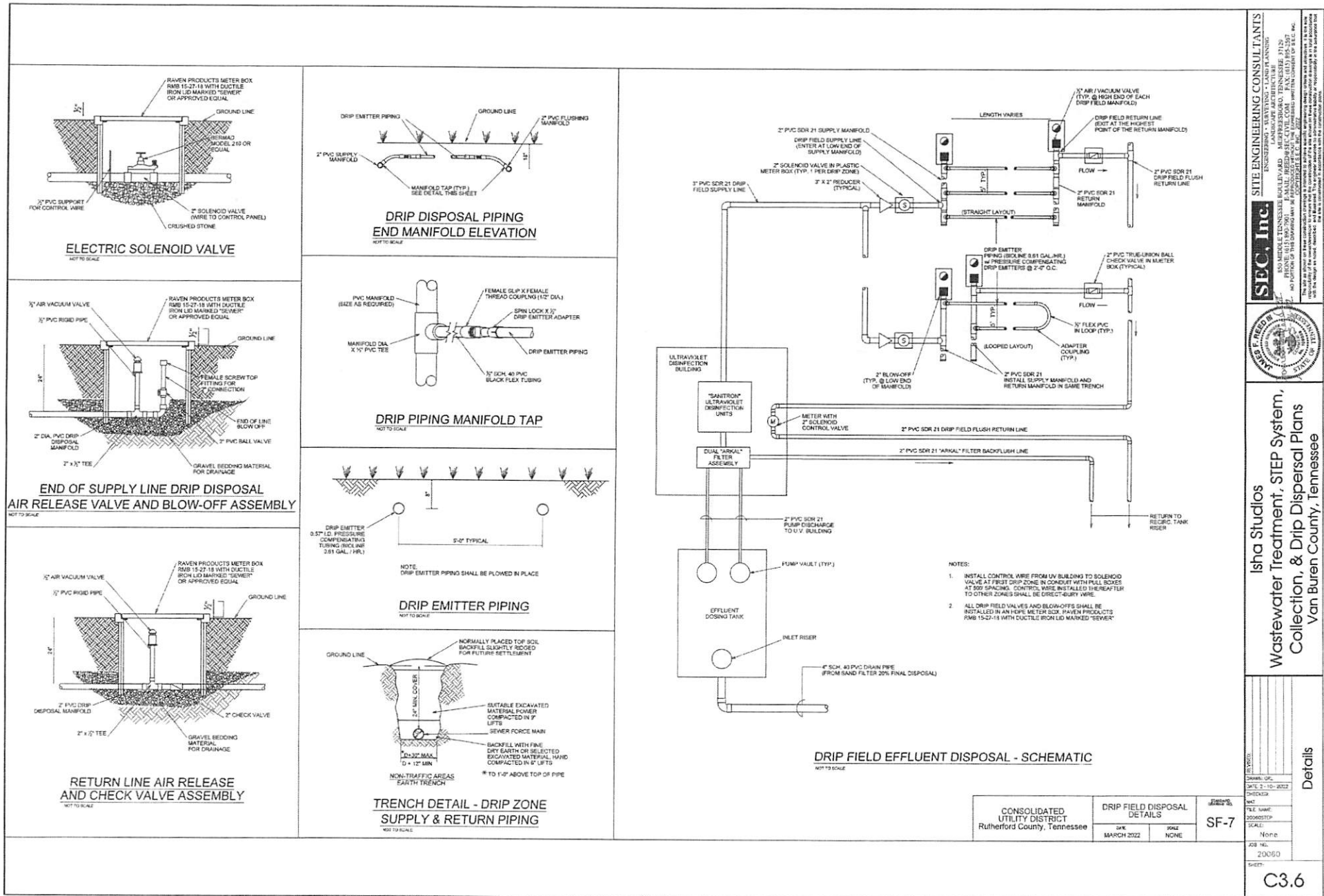
1. CONCRETE: CLASS A, MINIMUM 4,500 PSI @ 28 DAYS.
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LATERAL - 82.4 PCF
SOIL BEARING: 1,500 PSF

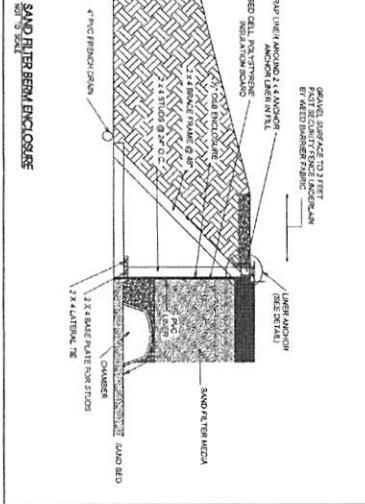
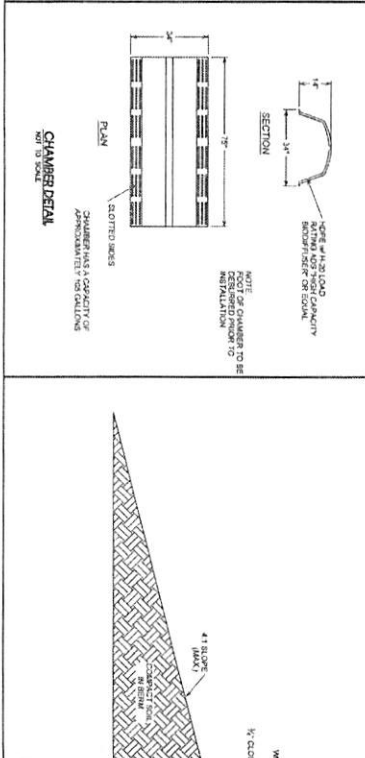
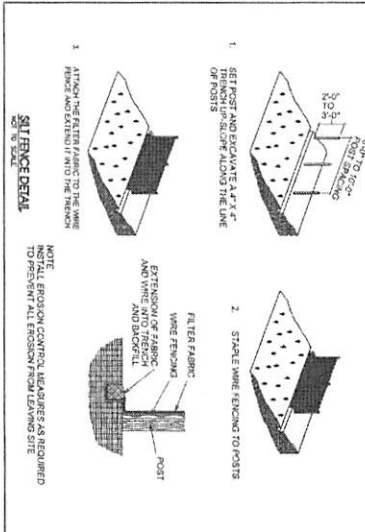
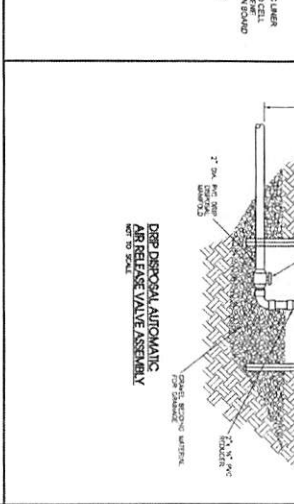
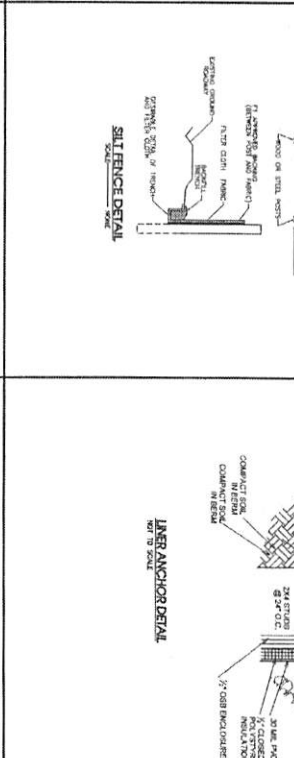
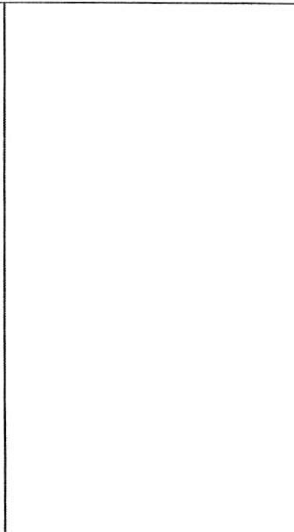
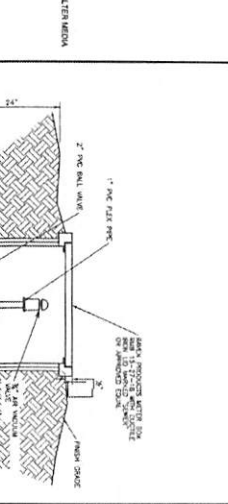
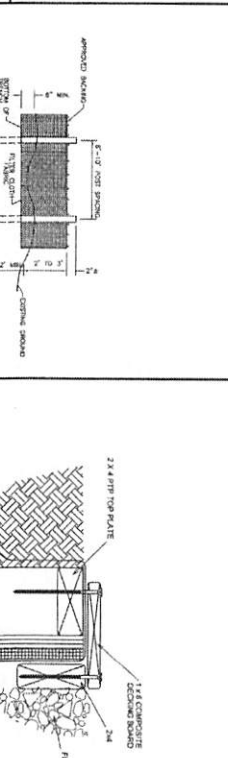
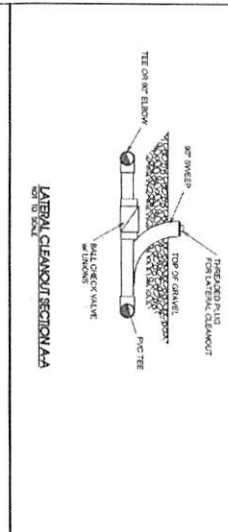
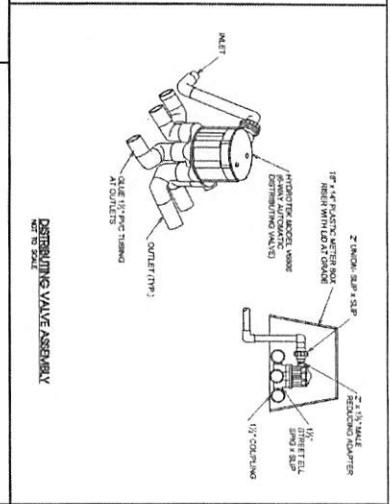
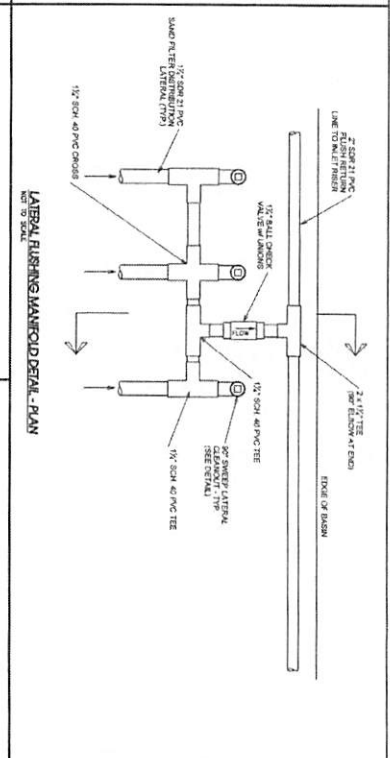
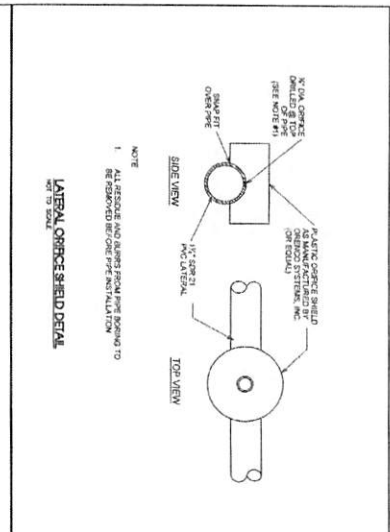
SIZE	DIM "A"	DIM "B"	DIM "C"
2000 GAL	9'-0"	5'-0"	10'-6"
3000 GAL	13'-6"	12'-0"	14'-6"
4000 GAL	17'-6"	18'-0"	18'-6"
5000 GAL	21'-0"	20'-4"	22'-0"
6000 GAL	24'-10"	24'-2"	25'-10"
8000 GAL	32'-12"	32'-2"	33'-10"

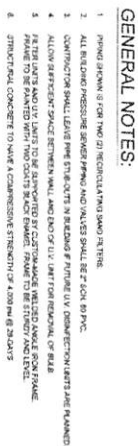
NOTE:
FOR USE OF ALTERNATE DESIGN SECTION
TOP AND SIDES MUST BE CAST MONOLITHICALLY

CONSOLIDATED UTILITY DISTRICT Rutherford County, Tennessee	RECIRCULATION & DISPOSAL TANKS STRUCTURAL DETAILS		SF-9A
	DATE MARCH 2022	SCALE NONE	

DESIGNED BY DATE 11-19-2022	CHECKED BY DATE 11-19-2022
PLACED BY DATE 11-19-2022	SCALE None
JOB NO. 20060	SHEET C3.5





3.8

Isha Studios
Wastewater Treatment, STEP System,
Collection, & Drip Dispersal Plans
Van Buren County, Tennessee



SEC, Inc. SITE ENGINEERING CONSULTANTS
 (ENGINEERING • SURVEYING • LAND PLANNING)
 LANDSCAPE ARCHITECTURE
 850 MIDDLE TENNESSEE BOULEVARD
 PHONE: (615) 890-7001 E-MAIL: JREED@SEC-CIVIL.COM FAX: (615) 890-2567
 NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF SEC, INC.
 The site as shown on these conceptual drawings is provided to illustrate a specific engineering design effort and does not constitute a warranty of the information to ensure that the conditions of the site shown on these conceptual drawings are in total conformity with the design as shown, described, and detailed. The engineer assumes no administrative liability, or responsibility for the execution of the work shown on these conceptual drawings.

EXHIBIT C
APPLICATION FOR DRAFT STATE OPERATING PERMIT



STATE OPERATING PERMIT APPLICATION SOP

**ISHA Studios Treatment Facility
Recirculating Media Filter & Drip Dispersal
951 ISHA Lane**

**IRM Utility
Van Buren County, TN**

Updated 6-16-22

SEC, Inc.

SITE ENGINEERING CONSULTANTS
ENGINEERING • SURVEYING • LAND PLANNING
150 MIDDLE TENNESSEE BLVD • MURFREESBORO, TENNESSEE 37129
PHONE (615) 890-7901
WWW.SEC-CIVIL.COM



Table of Contents

<u>Section</u>	<u>Title</u>
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1.0	SOP Permit Application
2.0	Area of Review
3.0	Ground Water General Description
4.0	Population General Description
5.0	Nature of Fluid
6.0	General Location of Publicly Supplied Water
7.0	Description of System
8.0	Nature and Type of System
9.0	Flow Schematic

1.0 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 **ISHA Foundation**
(applicant):

Permittee

Address: **951 ISHA Lane, McMinnville, TN**

Official Contact:

Saran Subramanian

Title or Position:

Mailing Address:

951 Isha Lane

City:

McMinnville

State:

TN

Zip:

37110

Phone number(s):

931-636-3087

E-mail:

saran@ishausa.org

Optional Contact:

Jeffrey W. Cox Jr.

Title or Position:

Vice President

Address:

7709 Edwards Pl Blvd

City:

Corryton

State:

TN

Zip:

37721

Phone number(s): **865 712 4307**

E-mail: IRMUtility@gmail.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

KALPANA H. RAJDEV, PRESIDENT

Signature

Date

6-21-2022

Facility Identification:		Existing Permit No.	
Facility Name:	ISHA Studio Treatment Facility	County:	Van Buren
Facility Address or Location:	951 Isha Lane, McMinnville, TN	Latitude:	35° 34' 10"
		Longitude:	-85° 34' 04"
Name and distance to nearest receiving waters: Spring Creek			
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list their permit numbers: N/A			
Name of company or governmental entity that will operate the permitted system: IRM Utility Inc.			
Operator address: 3444 Saint Andrews Drive, Baneberry, TN			
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. N/A			
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 type="checkbox"/> RV Park	No. of hookups:	No. of dump stations:	
<input type="checkbox"/> Car Wash	No. of bays:		
<input checked="" type="checkbox"/> Other		Res studios apts & community bldg	115,250gpd
Describe the type and frequency of activities that result in wastewater generation. Regional Treatment Facility - Typical Residential Sanitary Sewer			

Engineering Report (required for collection systems and/or land application treatment systems):	<input type="checkbox"/> N/A
<input 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.): Septic tank effluent with small diameter gravity/pressure collection	
System Description: SDR 17 PVC pressure pipe ranging from 3"Ø to 8"Ø and required fittings	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Cellular Telemetry Notification	
In the event of a system failure describe means of operator notification: Cellular Telemetry Notification	
List the emergency contact(s) (name/phone): Billy Cox - 865 712 4307	
For low-pressure systems, who is responsible for maintenance of STEP/STEG tanks and pumps or grinder pumps (list all contact information)? IRM Utility Inc	
Approximate length of sewer (excluding private service lateral): As required	
Number/hp of lift stations: As required/0.5 HP Number/hp of lift pumps /	
Number/volume of low pressure and or grinder pump tanks /	
Number/volume septic tanks as needed/varies	
Attach a schematic of the collection system. <input checked="" type="checkbox"/> Attached	
If this is a satellite sewer and you are tying into 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>	
N/A	

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.): Recirculating Media Filter	
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.): Cellular Telemetry Notification	
For New or Modified Projects: Name of Developer for the project: ISHA. c/o Mr. Saran Subramanian	
Developer address and phone number: 951 ISHA Lane, McMinnville, TN 37110 Saran 931-636-3087	
For land application, list: Proposed acreage involved: 20.0± 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: Fence	
Attach required additional Engineering Report Information (see <u>website</u> 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.	

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:	<input checked="" type="checkbox"/> N/A
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)	
<input type="checkbox"/> A general description of all past and present groundwater uses as well as the general groundwater flow direction and general water quality.	
<input type="checkbox"/> A general description of the population and cultural development within the AOR (i.e. agricultural, commercial, residential or mixed)	
<input type="checkbox"/> Nature of injected fluid to include physical, chemical, biological or radiological characteristics.	
<input 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)	
<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.	
<input type="checkbox"/> Description of system, Volume of injected fluid in gallons per day based upon design flow, including any monitoring wells	
<input type="checkbox"/> Nature and type of system, including installed dimensions of wells and construction materials	

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

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>	

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.

APPLICATION FOR A STATE OPERATION PERMIT (SOP)
INSTRUCTIONS

Purpose of this form A completed SOP application must be submitted to obtain SOP coverage. This permit is required to operate a sewage, industrial waste or other waste collection and/or treatment system that does not have a point source discharge to any surface or subsurface waters. This form must be submitted at least 180 days before starting any new activity, before an existing permit expires, or when renewing a permit.

Complete the form Type or print clearly, using black or blue ink; not markers or pencil. Answer each item or enter "N/A," for not applicable. If you need additional space, attach a separate piece of paper to the SOP application. Applicants may be required to submit engineering reports, plans and specifications. Contact the division for the applicable items, or refer to Appendix 1-D of the state Design Criteria for Sewage Works for more information. **The application will be considered incomplete without supplying all of the required information, Engineering Reports, and an original signature.**

Permittee Identification/Facility Identification Describe and locate the project, use the legal or official name of the facility or site. Provide the latitude and longitude (expressed in decimal degrees) of the center of the site, which can be located on USGS quadrangle maps. The quadrangle maps can be obtained at 1-800-USA-MAPS, or at the Census Bureau world wide web site: <http://www.census.gov/cgi-bin/gazetteer>. Attach a copy of a portion of a 7.5-minute quad map, showing location of site, with boundaries at least one mile outside the site boundaries. If business is mobile give the owner of operations' home, or business office address, and list all current areas of operation by city and county.

Wastewater Collection System These types of systems require engineering reports, refer to Appendix 1-D of the state Design Criteria for Sewage Works for more information.

Land Application Treatment System These types of systems require engineering reports, refer to Appendix 1-D of the state Design Criteria for Sewage Works for more information. Public access to the treatment area must be restricted, if disinfection is not part of the treatment. Applicants completing this section of the application must also complete the Wastewater Collection System section.

Pump and Haul These types of systems may require engineering reports, refer to Appendix 1-D of the state Design Criteria for Sewage Works for more information.

Holding Ponds Given that annual rainfall onto open ponds exceeds annual evaporation (in Tennessee), the permittee must develop a written plan (to be retained on site and be available to the division upon request) that addresses how excess rainfall will be disposed of in compliance with the no discharge requirement of this permit. Treatment ponds are not to be used for stormwater treatment or storage. All new and existing point source industrial stormwater discharges associated with industrial activity require coverage under the

APPLICATION FOR A STATE OPERATION PERMIT (SOP)
INSTRUCTIONS - CONTINUED

Tennessee industrial stormwater multi-sector general permit TMSP, refer to the [website](#) for more information. Describe the system for re-routing surface runoff away from ponds in the rainfall disposal plan.

Mobile Wash Operations Indicate whether the operation is run by an individual or a corporation with a fleet of vehicles equipped to wash and collect waste waters. If a corporation, indicate the home office as the "Official Contact". Indicate if operations take place at specific sites and list those counties that apply. Note that this permit covers operations for all of Tennessee. Operations indicated as "statewide" generally apply as a fleet type operation and each office location shall be individually permitted. Equipment may be truck or trailer-mounted, or both, indicate all that applies. Soaps, detergents, and other chemicals used should be non-toxic and biodegradable. All "chemically enhanced" (soaps, detergents, and other chemicals) waste-wash waters must be collected for proper disposal. If no chemically enhanced washwaters are used, clear-wash waters may travel by sheet flow to a gravel or grassy area where there is no opportunity to enter waters of the state. There should be no discharge to a storm water inlet, ditch, conveyance, stream, etc. If you are unsure of your wash area drainage, contact the area Environmental Field Office (EFO) prior to setting up your wash operation.

Fees Refer to the TDEC-DWR Environmental Protection Fund Fee Rule 0400-40-11-.02. Links to publications are available on Department of Environment and Conservation, Division of Water Resources webpage and the webpage for the Tennessee Secretary of State.

Submitting the form and obtaining more information Note that this form must be signed by the chief executive officer, owner, or highest-ranking elected official. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit a complete application electronically to water.permits@tn.gov (preferred) or to the appropriate EFO for the county(ies) where the facility is located, addressed to **Attention: DWR, Permit Section**. Please keep a copy for your records.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Barlett	38133	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Dr	38305-4316	Chattanooga	1301 Riverfront Parkway Suite 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

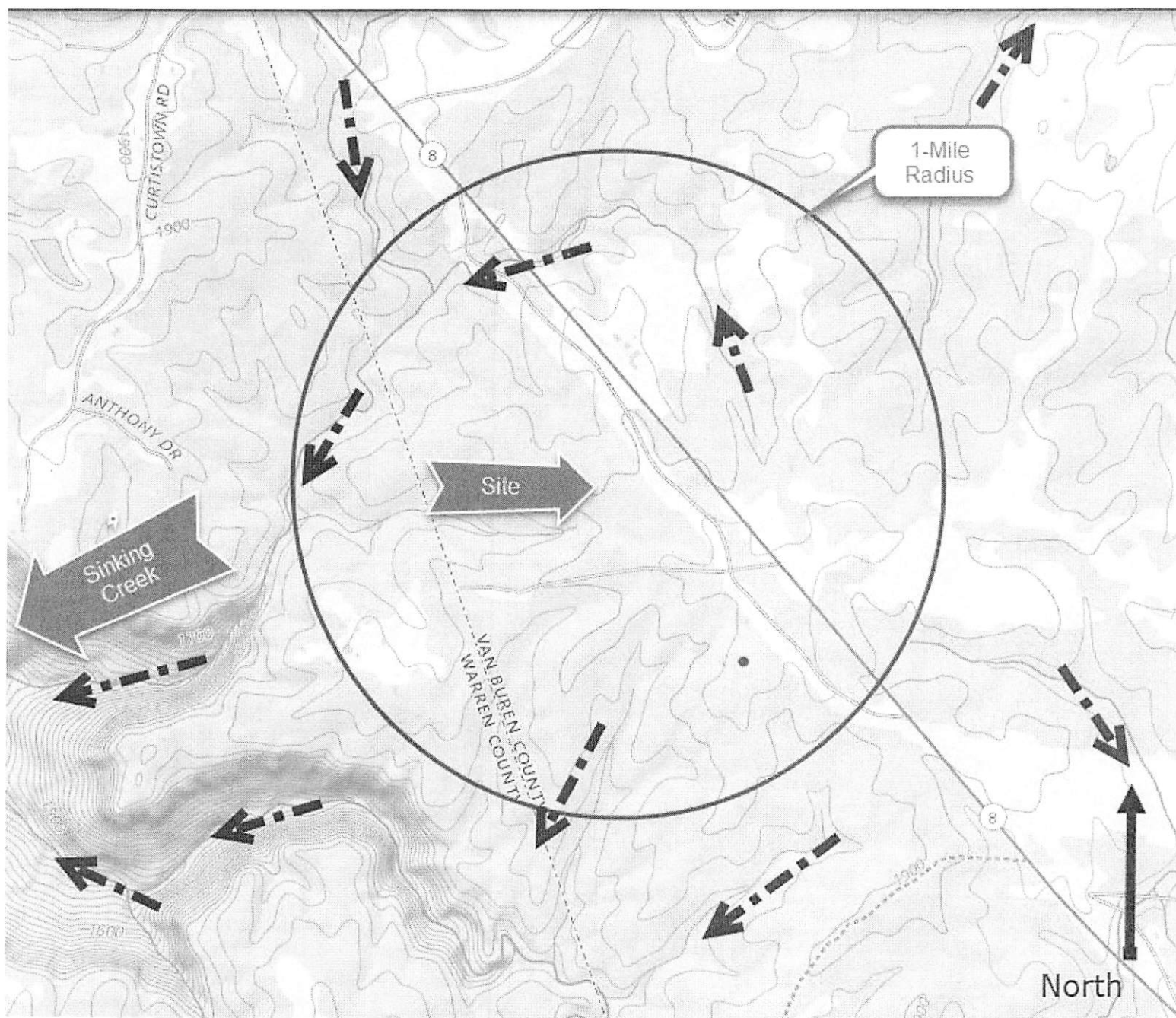
APPLICATION FOR A STATE OPERATION PERMIT (SOP)
INSTRUCTIONS - CONTINUED

Upon receipt of the required items, the division conducts a review of the material, and the applicant is notified of any deficiencies. When all the deficiencies have been corrected, the division makes a determination of whether to publish a draft permit. When a draft permit is generated, a public notice is issued and published in a local newspaper. The draft permit is then reviewed by the applicant, and division field staff. The general public also has an opportunity to review the permit. Based on public response, a public hearing may be held. After considering public comments and a final review, the permit may be issued. The entire process normally takes from five (5) to nine (9) months. Permits are normally valid for five (5) years, except those for pump and haul systems, which are generally valid for one (1) year.

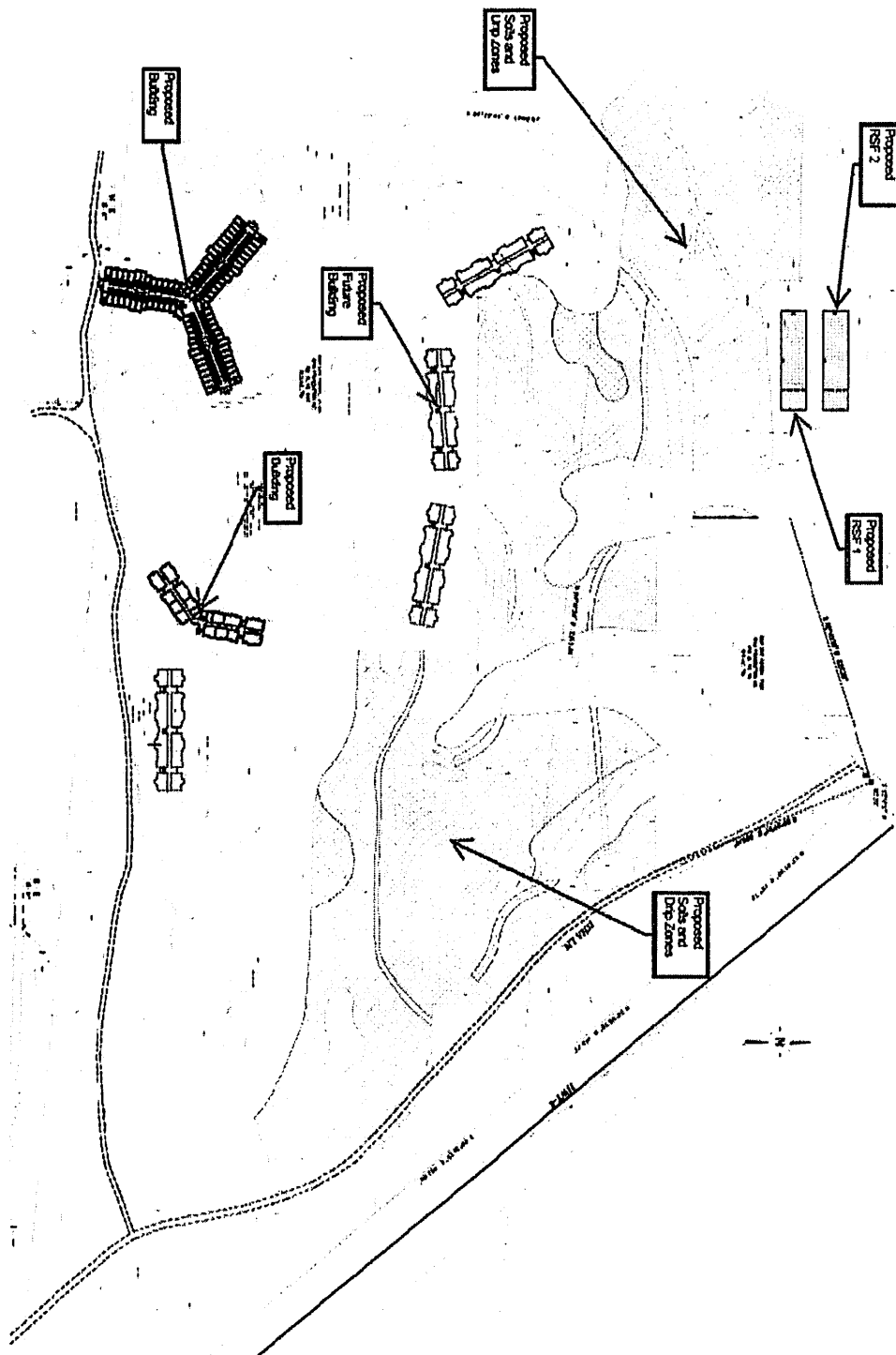
The division has the right to inspect a facility when deemed necessary. In addition, the division has the right to revoke or suspend any permit for violation of permit conditions or any other provisions of the Tennessee Water Quality Control Act and other water pollution control rules.

The division is responsible for regulating any activity, which involves a potential discharge in order to protect waters of the State from pollution and to maintain the highest possible standards in water quality.

2.0 Area of Review



Area of Review

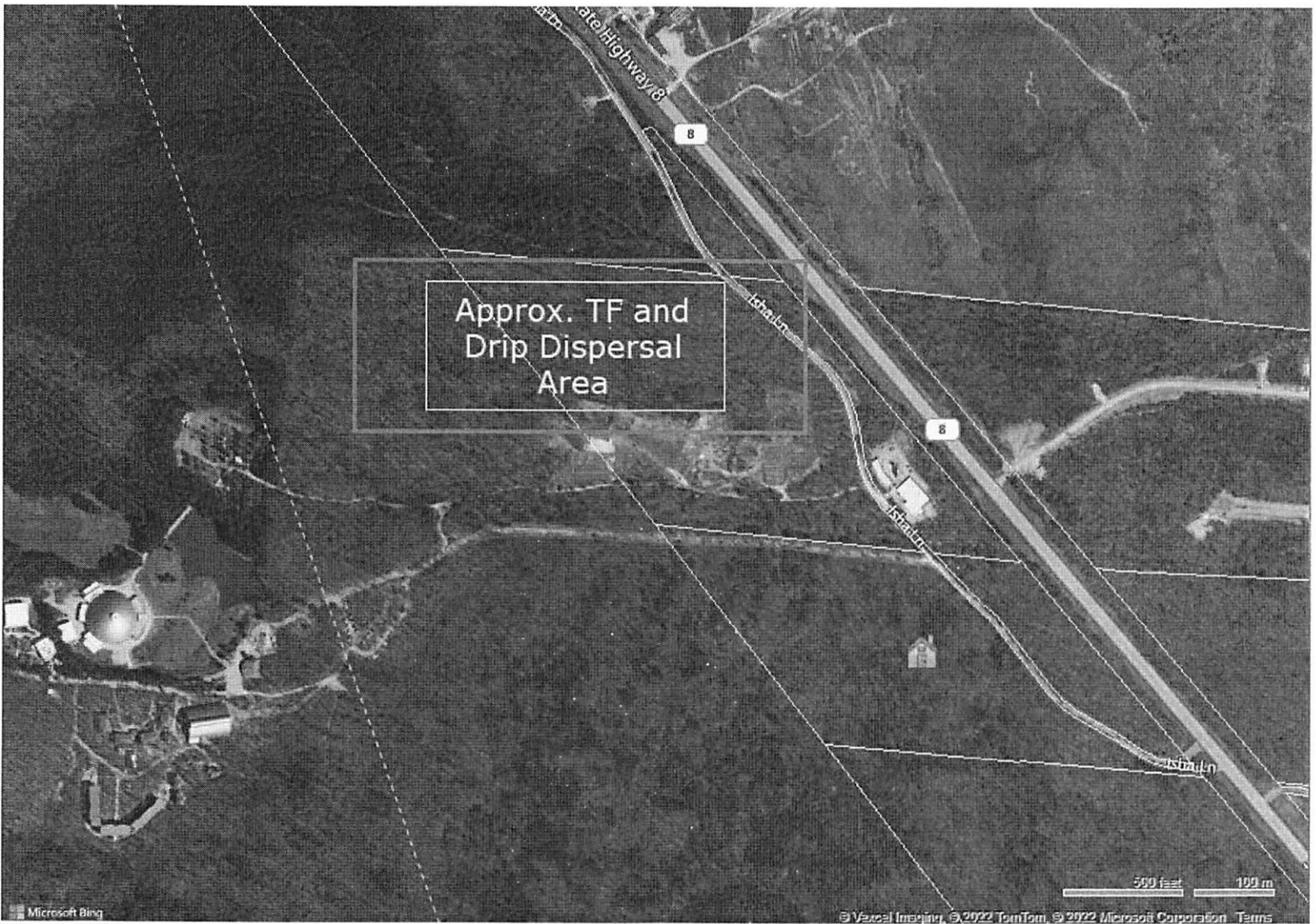


Master Plan With Lidar Top



FEMA MAP 100-Year Floodplain

SEC Project No. 20060



Aerial Map

3.0 Groundwater General Description

The attached USGS maps indicate the ISHA Studio Drip Dispersal Expansion area drainage flow path is to the southwest to Spring Creek watershed. See attached maps.

4.0 Population General Description

The majority of the Area of Review is agricultural land used primarily for pasture and large lot residential. Sparse residential subdivisions have been developed but remain spread out due to the lack of wastewater service. See attached aerial map of property.

5.0 Nature of Fluid

ISHA Studio TF is currently designed to accommodate typical residential sanitary wastewater effluent after primary treatment has been accomplished by the interceptor tank(s) at the source.

ISHA Studio TF Drip Dispersal Expansion will have a peak design discharge of approximately 115,250 gpd.

6.0 General Location of Publicly Supplied Water

Warren County Utility District supplies public drinking water within the AOR.

Warren County Utility District

4034 Sparta Hwy, McMinnville, TN 37110

Warren County Utility District Information (931) 668-4175

7.0 Description of System

Treated wastewater approximately 115,250 gpd is pumped and distributed to HDPE drip lines with pressure compensating emitters. The drip lines are to be installed on 5-foot centers along the contours with the emitters spaced at 2-foot centers along the drip lines. Drip lines are plowed into the soils that have been approved by a certified soil scientist and placed at an approximate depth of 7-8 inches below the ground surface. Distribution of the treated wastewater is managed through solenoid valves and controlled by a programmable PLC.

Daily Flow	
5 -126 Bedroom Condo Design Flow	
Number of Bedrooms	630.0 bedrooms
Daily Flow for 3-BR	100 gpd/br
Design Daily Flow	63,000 gpd
Studio 3 - 500 rooms	
Number of Bedrooms	500.0 bedrooms
Daily Flow for 3-BR	100 gpd/br
Design Daily Flow	50,000 gpd
Total Design Daily Flow	113,000 gpd
Admin Bldg - 10,000 sf - 50 persons	
Number of employees / quest	50.0 person
Daily Flow per person	15 gpd/person
Design Daily Flow	750 gpd
Total Design Daily Flow	113,750 gpd
Welcome Center - 10,000 sf	
Number of employees / quest	100.0 person
Daily Flow per person	15 gpd/person
Design Daily Flow	1,500 gpd
Total Design Daily Flow	115,250 gpd

Land Application Area

Land Application Area	0.2 gal/sf/day*
Total Area Required	576250 s.f.
or	13.23 acres

* assumed soil absorption rate

Number of Required Zones

Length per zone (@ 5' o.c.)	3840 L.F.
Number of Zones	30.0 Zones
Total Length	115250 L.F.

Land Reserve Area

Area per lot	50% S.F./lot
Total Area Required	288125 acres
or	6.61 acres
Total Area Required	864375 s.f.
Total Area Required	19.84 acres

Sand Filter Size

5 gal/S.F./day	
115,250 gpd	
Area Req'd	23,050 S.F.
Use Filter No.	2-55' x 225'

8.0 Nature and Type of System

The ISHA Studio TF designed for 115,250 GPD wastewater treatment capacity. A Recirculating Media Filter (RMF) 2-(225'x55') will be added as the primary treatment.

Disposal Capacity: This application is proposing to allow for drip disposal soils for land application for approximately 115,250 LF of drip disposal lines (30 zones at 3,840 LF per zone)

9.0 Flow Schematic

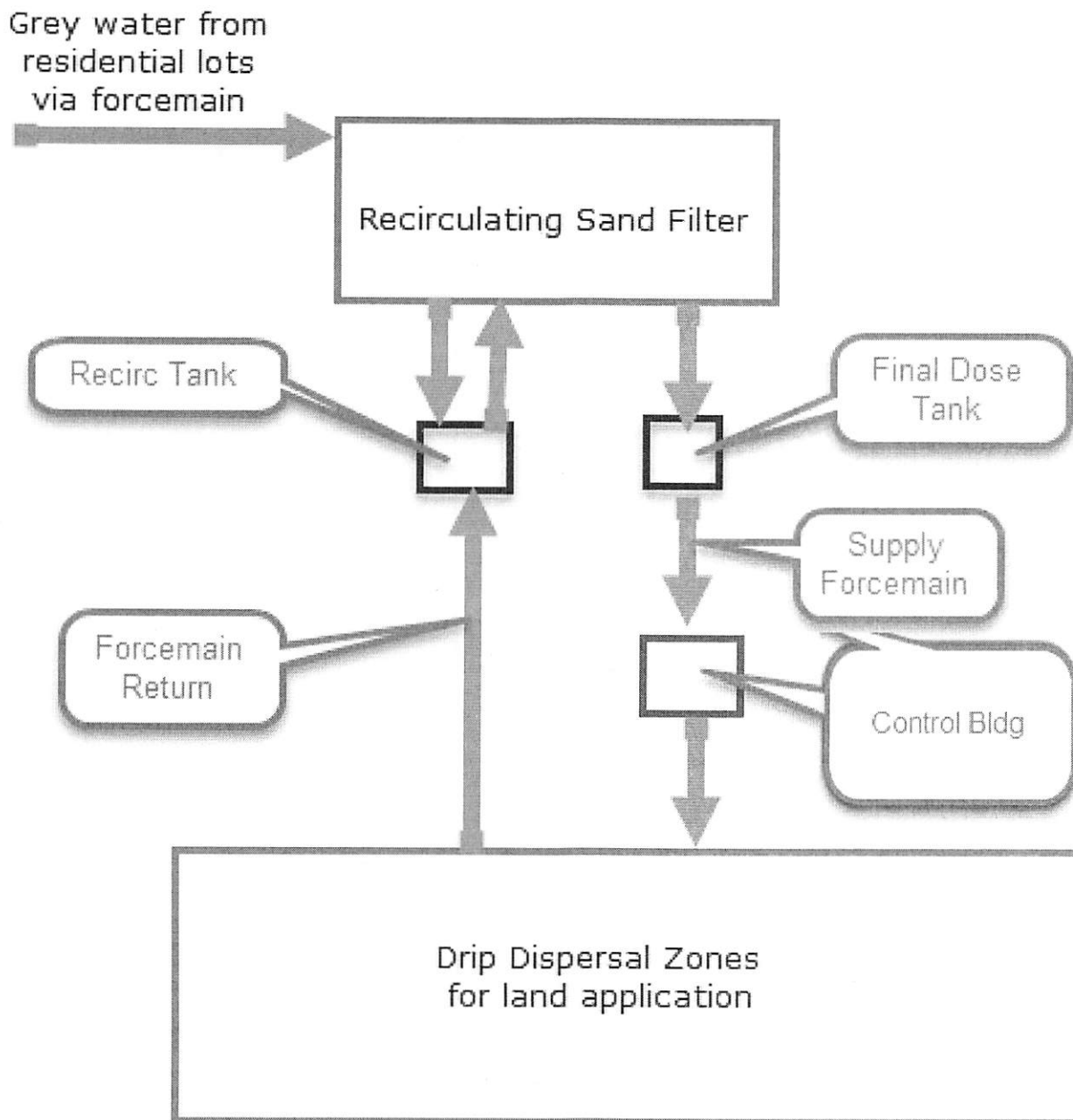


EXHIBIT D
LETTER FROM JAMIE REED P.E., R.L.S. DATED OCTOBER 12, 2022

Preliminary Project Discussion for Sewage Works Construction Projects
Background Information
Engineer/ Owner

Project Name: ISHA Studios TF

NPDES or SOP Number (if existing):

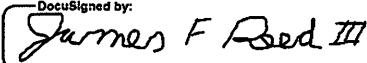
- A. Identification of parties
 - a. Applicant **ISHA Foundation**
 - b. Permittee **IRM Utilities Inc**
 - c. Consulting Engineer **Jamie Reed P.E., R.L.S.**
 - d. Funding Agencies (if applicable) **None**
- B. Entity to sign off on compliance with local codes (i.e. building inspector) **IRM Utilities Inc**
- C. Project Purpose and Objectives

The ISHA Studios Treatment Facility is located at 951 Isha Lane, McMinnville, TN. The ISHA Studios Treatment Facility is designed with an effluent limit of 115,250 gpd. It is the intention of Tennessee Wastewater to install a Recirculating Media Filter (RMF) Treatment System, 10,000-gal recirculation tank, 3,000-gal final dose tank, control building and 30 zones at 3840 LF/ per zone of drip dispersal as the land application for a total of 20 acres, to be installed on the existing treatment facility property. This facility will be designed to serve the sewage needs of the ISHA Studios service territory.

- D. Map of general service area (see attached service territory map)
 - a. Probable site and construction area **see pdf of plans**
 - b. Adjacent properties **see pdf of plans**
 - c. Significant waters of the State **See PER**
 - d. Geological features **see pdf of plans**
 - e. Property boundaries **see pdf of plans**
- E. Existing Inflow and Infiltration (see above) **Proposed drip dispersal design flow 115,250 GPD**
- F. Influent characteristics
 - f. Last 12 MORs (if applicable) **none**
 - g. Industrial dischargers **none**
- G. System capacity
 - h. Hydraulic
 - i. Average Daily Dry Weather Flow – ADDWF
 - ii. Average Daily Flow - ADF
 - iii. Peak Flow **0.115 MGD**
 - iv. Design Flow **0.115 MGD**
 - i. Nutrient

- i. Influent loads
 - 1. Average Daily Dry Weather Flow - ADDWF
 - 2. Average Daily Flow – ADF **0.115 MGD**
 - 3. Design Flow **0.115 MGD**
 - j. Treatment/ Conveyance
 - i. Accommodation of variability of loads **drip dispersal no direct discharge**
- H. Procurement methodology
 - k. Design-bid-build **No**
 - l. Design build **No**
 - m. Preselection of equipment/processes **IRM Utilities Inc will install per construction plans**
 - a. Relationships of various agencies involved **Van Burren County Planning (planning authority), Warren County Utility District, TDEC (approvals)**
 - n. How and when ownership/access/easements will be transferred to wastewater operational entity **currently exist**
- I. Reliability class of components and electrical service
 - o. Operator certification level **IRM Utilities Inc**
 - p. Manpower requirements **1 person**
- J. Proposed project schedule **projected start date July 2022**
- K. Provide copy of PER if already prepared PDF sent

This 12th day of October, 2022

DocuSigned by:

A6488EG885E6427...
Jamie Reed, P.E, R.L.S