

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0285064
APS ID 1081255
Authorization ID 1427512

Applicant, Facility and Project Information

Applicant Name	<u>Diane Daniels</u>	Facility Name	<u>Daniels Properties SRSTP</u>
Applicant Address	<u>226 Rankin Road</u> <u>Washington, PA 15301-3182</u>	Facility Address	<u>795 S Bridge Road</u> <u>Prosperity, PA 15329-1136</u>
Applicant Contact	<u>Ryan Allinder</u>	Facility Contact	<u>Ryan Allinder</u>
Applicant Phone	<u>(724) 825-9723</u>	Facility Phone	<u>(724) 825-9723</u>
Client ID	<u>375336</u>	Site ID	<u>862861</u>
SIC Code	<u>8800</u>	Municipality	<u>South Franklin Township</u>
SIC Description	<u>Private Households</u>	County	<u>Washington</u>
Date Application Received	<u>February 16, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>March 16, 2023</u>	WQM App. No.	<u>6323400</u>
Project Description	<u>New NPDES permit application.</u>		



Summary of Review

The PA Department of Environmental Protection (PADEP/Department) received a new Part I NPDES and Part II WQM permit applications from Fred R. Brant (consultant) of F.R. Brant Company on behalf of Mr. David W Poole (applicant) on May 9, 2022. The applications are for a proposed Small Flow Treatment Facility (SFTF/SRSTP) located in South Huntingdon Township, Westmoreland County with an average design flow of 500 GPD and 0.9 lbs. BOD5/day from a proposed 4-bedroom single-family residence. The proposed discharge is into Barren Run through Outfall 001.

This fact sheet is developed in accordance with 40 CFR §124.56

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
√		Reza H. Chowdhury, E.I.T. / Project Manager 	March 16, 2023
√		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	March 17, 2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 4' 0"</u>	Longitude	<u>-80° 18' 42"</u>
Quad Name	<u>Prosperity</u>	Quad Code	<u>1803</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Tenmile Creek (TSF)</u>	Stream Code	<u>40285</u>
NHD Com ID	<u>99411718</u>	RMI	<u>31.85</u>
Watershed No.	<u>19-B</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>Name</u>		
Nearest Downstream Public Water Supply Intake	<u>Tri County Jt. Municipal Authority, Centerville Boro, Washington County</u>		
PWS Waters	<u>Monongahela River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>65.27</u>	Distance from Outfall (mi)	<u>32.58</u>

Changes Since Last Permit Issuance: None, new application.

Other Comments:

Anti-Degradation Requirement:

Chapter 93.4a(b) of the Department’s rules and regulations require that “Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.” The discharge is into a stream segment designated as Trout Stocking (TSF). No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

Class A Wild Trout Streams:

No Class A Wild Trout Fishery will be impacted by this discharge.

303d Listed Streams:

The receiving stream segment is not impaired.

Treatment Facility summary:

The application was submitted for a new SRSTP named Daniels Property SRSTP that will be constructed to serve an existing 3-bedroom single dwelling located in 795 S Bridge Road, Prosperity, PA 15329. The proposed discharge will be into Tenmile Creek (TSF) through Outfall 001.

The details of the proposed treatment plant will be discussed in the Internal Review & Recommendation (IR&R) that will accompany the WQM permit under WQM permit number 6323400. In summary, the proposed treatment plant will be a Singular Bio-Kinetic Model 960-500 treatment tank, followed by a Hydro-Kinetic Bio-Film Reactor with a model AT 1500 UV disinfection system and discharge into Tenmile Creek through Outfall 001.

The proposed treatment technology isn't listed in the SFTF Manual, therefore, the facility doesn't qualify for coverage under general PAG04 permit.

Development of effluent limitations:

Flow monitoring:

Flow monitoring will be placed in this permit in accordance with DEP's SOP BCW-PMT-003 revised May 17, 2019. The reporting frequency set forth is once a year and sample type is Estimate (for SRSTP.)

Biochemical Oxygen Demand (BOD₅)

An average annual BOD₅ limit of 10 mg/l and IMAX limit of 20 mg/l will be placed in this permit. These limits are consistent with the SOP.

Total Suspended Solids (TSS)

An average annual BOD₅ limit of 10 mg/l and IMAX limit of 20 mg/l will be placed in this permit. These limits are consistent with the SOP.

Fecal Coliform:

A year-round annual average and IMAX limit of 200 No./100 ml will be placed in this permit.

UV:

The SOP indicates that it is not necessary to require UV intensity or transmittance monitoring in the permit for SRSTPs/SFTFs.

The Design Engineer's Report stated that the UV system will be inspected and cleaned on a monthly basis, the Singulair-HKBFR Combo will have regular service every six months, and the UV bulb will be changed annually.

The Design Engineers Report accompanied with the WQM permit indicated that the proposed treatment plant can treat the wastewater to generate an effluent that will have maximum BOD₅ of 6.0 mg/l, TSS of 10.0 mg/l, less than 200 no./100 ml of fecal coliform.

Act 537 Planning was approved under PADEP Code 63955-22-188 on August 18, 2022.

Proposed Effluent Limitations and Monitoring Requirements

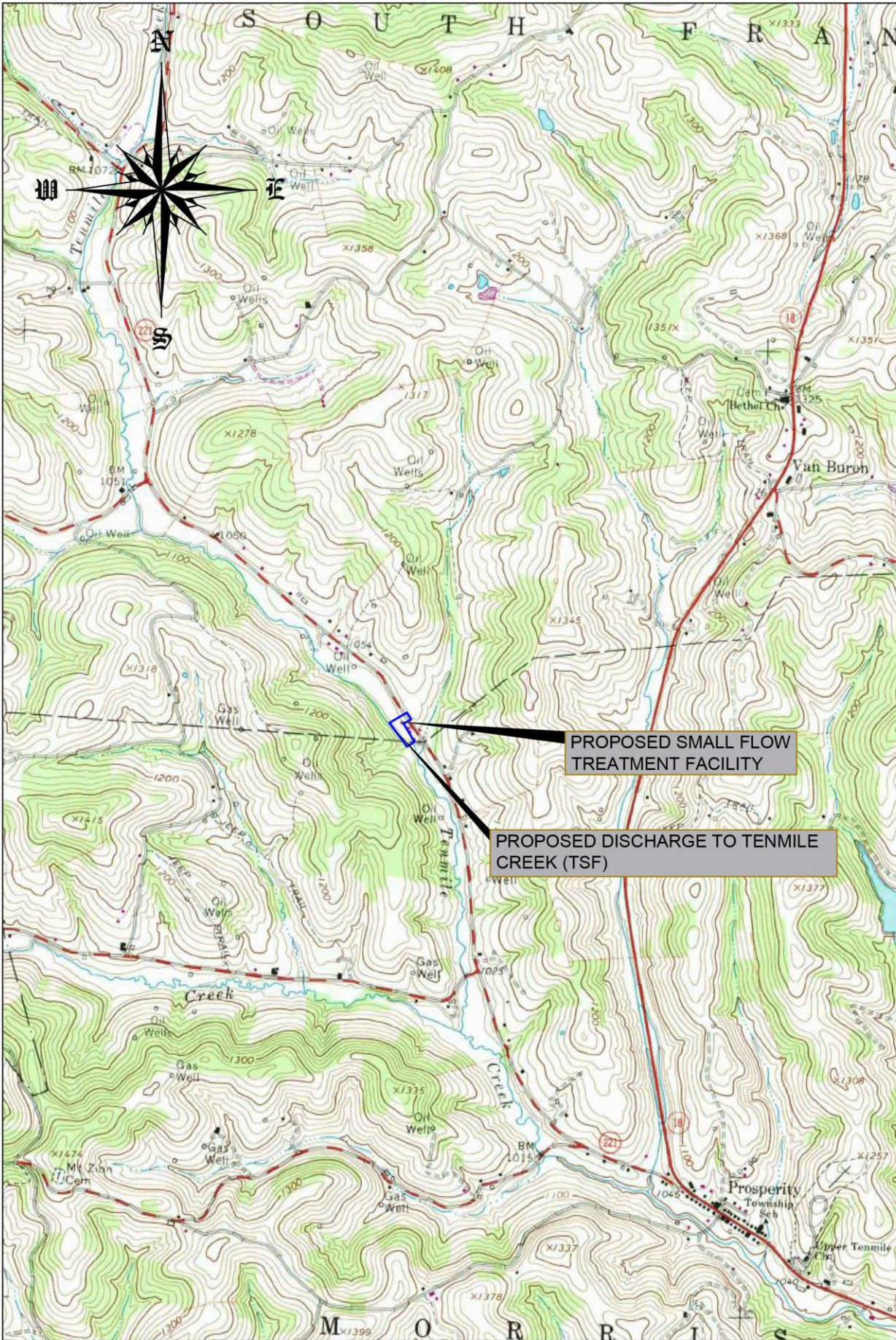
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: After last treatment unit

Other Comments: None



engineers • surveyors
F.R. BRANT COMPANY
 317 Vanyo Road, Berlin, PA 15530 - 814.279.2093

DATE	REVISION

CLIENT
HAPCHUK, INC.
 226 RANKIN ROAD
 WASHINGTON, PA 15301

PROJECT
LOCATION PLAN
DANIELS PROPERTY
 SMALL FLOW TREATMENT FACILITY
 SOUTH FRANKLIN TWP., WASHINGTON CO., PA

DATE
 2.03.2022
 SCALE
 1"=200'
 DRAWING
 1350 HAPCHUK
 LAYOUT
 Location Plan
 SHEET NO.

L-1



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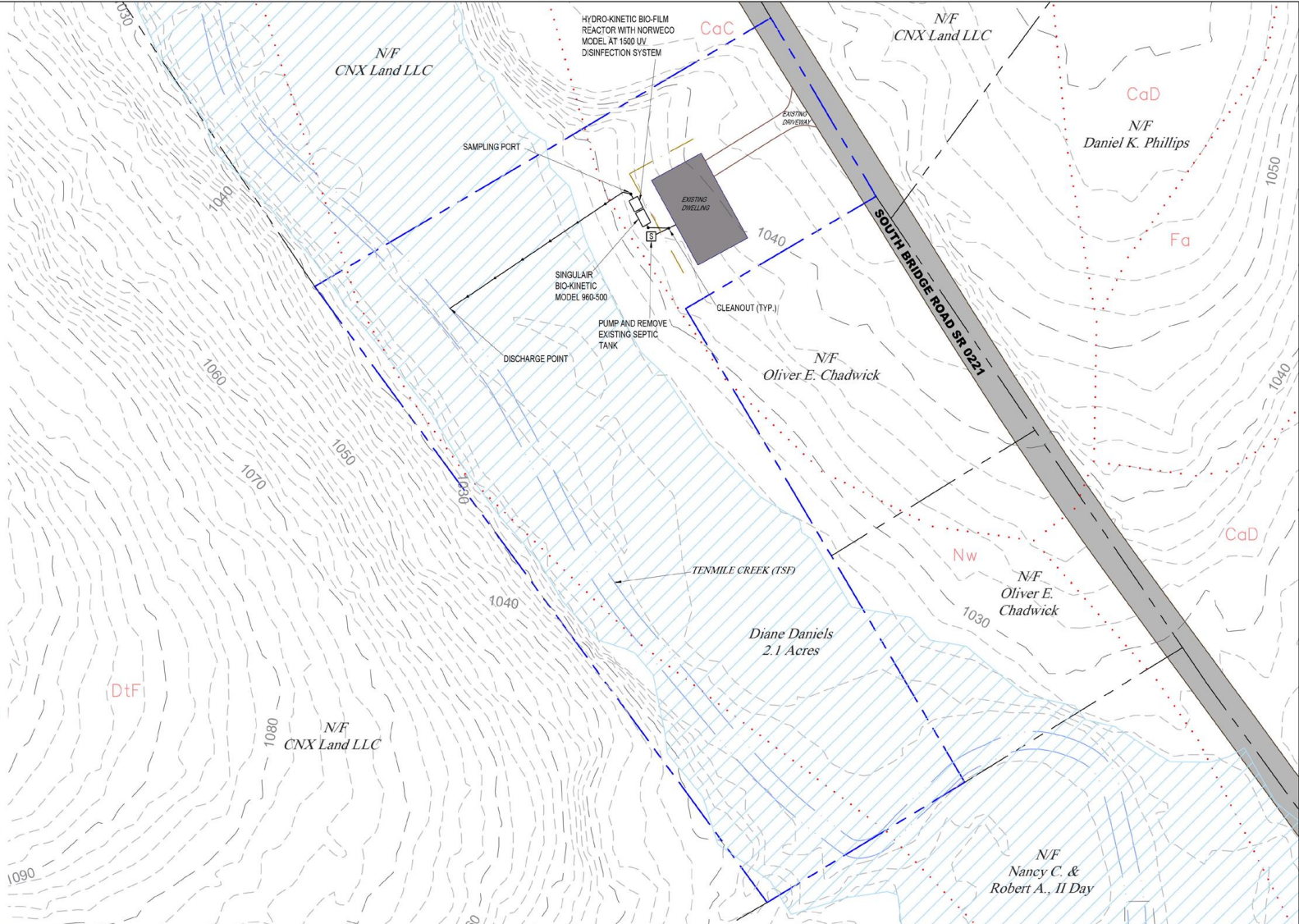
- NOTES:
1. MAINTAIN ALL REQUIRED ISOLATION DISTANCES.
 2. PROPERTY LINES WERE PLOTTED FROM DEED DESCRIPTIONS.
 3. CONTRACTOR MAY USE CONCRETE OR PLASTIC TANKS

LEGEND

- PROPERTY LINES (SUBJECT PARCEL)
- PROPERTY LINES (ADJOINING PARCELS)
- INDEX CONTOUR (10 FT)
- INTERVAL CONTOUR (2 FT)
- SOIL TYPE BOUNDARIES

FLOODPLAIN

SCALE: 1" = 50'



BR engineers • surveyors
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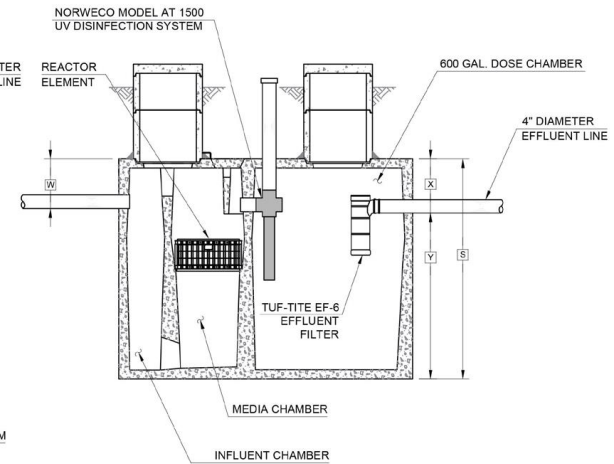
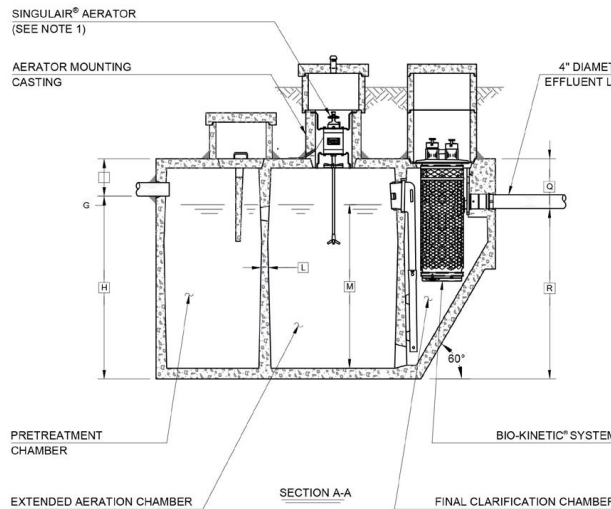
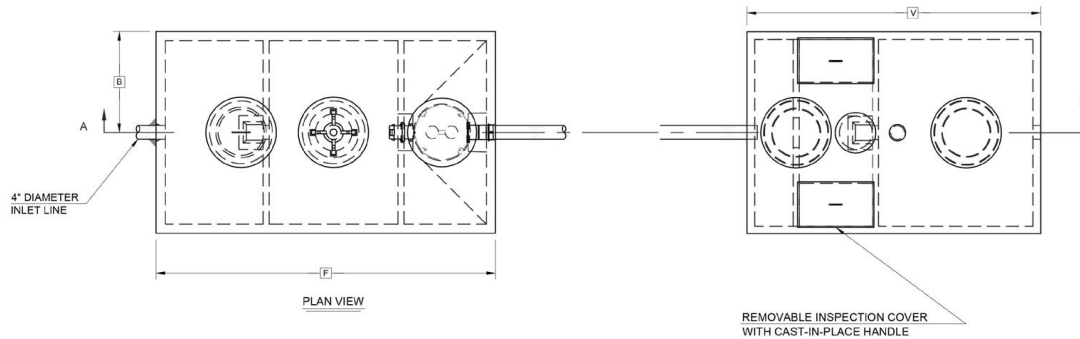
PROJECT
DANIELS PROPERTY
SMALL FLOW TREATMENT FACILITY
SOUTH FRANKLIN TWP., WASHINGTON COUNTY, PA

DATE	8/24/2022
SCALE	1"=50'
DRAWING	1350 Hapchuk
LAYOUT	
SFTF-1	

SHEET NO.
1 OF 4

GENERAL NOTES:

- ① SINGULAIR® AERATOR, AS TESTED AND ACCEPTED BY NSF.
- ② FALL THROUGH SINGULAIR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ③ ON DEEPER INSTALLATIONS, RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING, BIO-FILM REACTOR RISER, AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE. INSPECTION COVER ON PRETREATMENT CHAMBER MUST BE DEVELOPED TO WITHIN TWELVE INCHES OF GRADE.
- ④ TANK REINFORCED PER ACI STD. 318-05.
- ⑤ REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS. REACTOR LID IS SECURED.
- ⑥ CONTACT THE LOCAL, LICENSED SINGULAIR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS AND CONFIRMATION OF CRITICAL DIMENSIONS.



NOTE: TOTAL SYSTEM CAPACITY: 2,355 GALLONS
RATED CAPACITY: 500/600 GALLONS PER DAY



CRITICAL DIMENSIONS (SEE NOTE 6)

A	1'-0"	N
B	2'-9"	O
C		P
D		Q
E		R
F	9'-3"	S
G	1'-0"	T
H	5'-0"	U
I		V
J		W
K		X
L	0'-2"	Y
M	4'-6"	Z

SINGULAIR BIO-KINETIC MODEL 960-500 & HYDRO-KINETIC BIO-FILM REACTOR

N.T.S.



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226 RANKIN ROAD
WASHINGTON, PA 15301

PROJECT
DANIELS PROPERTY
SMALL FLOW TREATMENT FACILITY
SOUTH FRANKLIN TWP., WASHINGTON COUNTY, PA

DATE
8/24/2022
SCALE
N.T.S.
DRAWING
1350 Hapchuk
LAYOUT
SFTF-2

SHEET NO.

2 OF 4