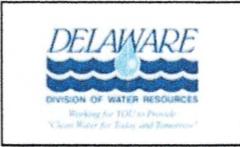


Permit Number:

282325



APPLICATION - PERMIT ON-SITE WASTEWATER SYSTEM



(Please Type or Print Legibly)

OWNER'S NAME: Chesapeake District of the Wesleyen Church Corp Delaware and Chesapeake District of the Religious Corp

PHONE: 302-398-3618

ADDRESS: 240 Delaware Ave, Harrington, DE 19952

PROJECT LOCATION: 1143 Paradise Alley Rd, Felton, DE 19943

TAX/MAP #: 6-00-14900-01-0100 (Eval. #574200)

APPLICATION PREPARER:

Edwin Tennesfoss, PE

DNREC

LICENSE #: 6240C

PREPARER'S ADDRESS: P.O. Box 2, 39 Commerce St, Harrington, DE 19952

PHONE: (302) 542-0774

I hereby affirm that the information provided on this document is accurate and complete.

Preparer's Signature: [Signature] Date: 2/16/26

By signing this permit application, the preparer further certifies they were physically present at the site.



-SEPTIC DESIGN CRITERIA-

(Please check all boxes that apply)

System Type: (CF = Cap & Fill / FD = Full Depth)

- Gravity (FD) [checked], Gravity (CF) [], Pressure Dose (FD) [], Pressure Dose (CF) [], Low Pressure Pipe (FD) [], Low Pressure Pipe (CF) [], Temporary Holding Tank [], Permanent Holding Tank [], Elevated Sand Mound [], Wisconsin At-Grade [], Subsurface Micro Irrigation [], Peat Bio- Filter [], Other []

- Bed or Trench [checked], Gravelless Chamber [], Sand-lined [], Stone/Gravel [checked], Tire Chips [], Yes [], No [checked]

Existing System Malfunctioning [] Yes [] No [checked] N/A

Pre-Treatment Units

- Septic Tank [checked], Other []

Central Water Available [] Yes [checked] No (If yes, please state Utility Name:)

Type of Construction:

- Replacement [], New Construction [checked], Component Replacement [], Repair to Existing System [], Reason: []

Authorization to Use Existing System

Permit #: [], Present Condition: [], Structure to be connected: []

of Bedrooms: 500 seats - 2 services, Avg. Percolation Rate: 40, Gallons Per Day Flow: 2400, Minimum Sq. Ft. Req'd: 5009, Sq. Ft. Proposed: 5022



PAID \$ 250.00 02/20/2026

PAID \$ 210.00 02/20/2026



INDEX OF DRAWINGS	
Sheet Number	Sheet Title
1	INDEX & GENERAL NOTES
2	SITE OVERVIEW
3	PLOT PLAN
4	TRENCH DETAIL
5	DOSING TANK DETAIL
6	VALVE VAULT DETAIL

- CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS AND ALL SITE FEATURES (ISOLATION DISTANCES, SLOPE DIRECTION/PERCENTAGE, MEASUREMENTS, ETC.) PRIOR TO INSTALLATION. IF DISCREPANCIES ARE FOUND IN THE FIELD, CONTRACTOR SHALL IMMEDIATELY CONTACT THE DESIGNER AT (302) 841-7901.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT (811) AT LEAST (3) WORKING DAYS PRIOR TO EXCAVATION, TO HAVE EXISTING UNDERGROUND UTILITIES LOCATED AND MARKED.
- DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL WORK MUST BE PERFORMED IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
- THIS PERMIT DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION IN WETLANDS. IF SUCH CONSTRUCTION IS ANTICIPATED, THE OWNER SHOULD OBTAIN NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO CONSTRUCTION. THE SYSTEM SHALL BE INSTALLED PER THE APPROVED PERMIT AND ALL APPLICABLE REGULATIONS SET FORTH BY DNREC. ANY CHANGES TO THE PERMIT SHALL BE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION. ANY CHANGES TO THE APPROVED PERMIT WITHOUT PRIOR APPROVAL OF THE DESIGNER OR DNREC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL LAY-OUT ENTIRE SYSTEM ON SITE TO ENSURE THAT ALL COMPONENTS CAN BE INSTALLED IN ACCORDANCE WITH PERMIT CONDITIONS. SHOULD ANY SITE CHANGES OR PROBLEMS AFFECTING PERMIT CONDITIONS BE NOTED, INCLUDING BUT NOT LIMITED TO SOILS COMPACTION IN DISPOSAL AREAS, THE CONTRACTOR SHALL NOTIFY DNREC (302-739-9947 OR 302-856-5461) AND THE ENGINEER (DAVID HEATWOLE 302-841-7901) BEFORE PROCEEDING WITH CONSTRUCTION.
- IF HIGH WATER CONDITIONS ARE ENCOUNTERED ON SITE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR ADDITIONAL INSTRUCTIONS REGARDING TANK INSTALLATION TO PREVENT TANK LEAKAGE OR FLOTATION. PLACEMENT OF TANKS INTO WATER DEPTHS OF 30" OR MORE IS CAUSE FOR THIS NOTIFICATION. THIS APPLIES TO ALL TANKS.
- ALL TANKS ARE TO BE RATED BY THE MANUFACTURER FOR ADEQUATE STRUCTURAL STRENGTH AT THE ACTUAL DEPTH OF INSTALLATION.
- ALL TREES WITHIN 10' MIN OF DISPOSAL AREAS ARE TO BE REMOVED.
- A DNREC LICENSED SITE EVALUATOR SHALL BE ON-SITE TO VERIFY SUITABILITY OF SOILS IN DISPOSAL AREA AFTER TREES HAVE BEEN REMOVED IN A WOODED SITE PRIOR TO CONSTRUCTION.
- ALL ELECTRICAL WORK SHALL BE COMPLETED BY A LICENSED ELECTRICIAN IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION. BURIED ELECTRICAL CABLES SHALL BE RUN IN PVC CONDUIT.
- FINAL GRADING SHALL PREVENT SURFACE WATER FROM PONDING OVER THE WASTEWATER DISPOSAL AREA / DRAINFIELD.
- CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE BETWEEN THE WASTEWATER DISPOSAL AREA / DRAINFIELD AND EXISTING OR PROPOSED STRUCTURES.
- THIS DESIGN LAYOUT IS BASED ON INFORMATION REPORTED IN THE SITE EVALUATION, STATEMENTS BY OWNER AND OTHER INTERESTED PARTIES, AND OUR OWN PRE-DESIGN SITE OBSERVATIONS AND MEASUREMENTS. NEITHER A PROPERTY SURVEY NOR PROPERTY LINE STAKEOUT HAS BEEN PERFORMED AS PART OF THIS DESIGN WORK. AS SUCH, SITEWORKS ENGINEERING, LLC IS NOT RESPONSIBLE FOR DWELLING PLACEMENT OR ACTUAL LOCATION OF PROPERTY LINES. THIS DESIGN MAY NO LONGER BE VALID IF SITE CONDITIONS OR LAYOUTS CHANGE.
- LOW PRESSURE PIPE DISPOSAL SYSTEMS SHALL BE INSTALLED WITH A TRENCHER PER DNREC REGULATIONS.
- GRAVITY DISPOSAL SYSTEMS MAY REQUIRE A DNREC APPROVED LIFT STATION PACKAGE TO OVERCOME ELEVATION DIFFERENCES FROM THE SEPTIC TANK TO THE DRAINFIELD.
- DISTRIBUTION BOXES ASSOCIATED WITH GRAVITY DISPOSAL SYSTEMS SHALL MAINTAIN MINIMUM 5-FOOT SEPARATION FROM TRENCH/BED DRAINFIELDS.
- ALL PIPING AND FITTINGS SHALL BE PRESSURE RATED SCHEDULE 40 PVC.
- CHANGES TO THE OWTDS LOCATION SHALL REQUIRE A PRE-CONSTRUCTION AS-BUILT APPROVED BY DNREC PRIOR TO INSTALLATION. PRE-CONSTRUCTION AS-BUILTS WILL BE BILLED AS AN EXTRA EXPENSE TO THE CONTRACTOR OR OTHER RESPONSIBLE PARTY.
- ALL SYSTEMS SHALL BE INSPECTED IN ACCORDANCE WITH DNREC REGULATIONS. EQUIPMENT NECESSARY FOR INSPECTIONS (GENERATOR, HOSES, WATER, PRESSURE GAUGES, ETC.) SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR OR HIS/HER REPRESENTATIVE SHALL BE PRESENT DURING THE INSPECTION. CONTRACTOR SHALL NOTIFY DESIGNER MINIMUM 48 HOURS IN ADVANCE TO SCHEDULE ALL INSPECTIONS.
- ANY ADDITIONAL SITE VISITS REQUIRED FOR DESIGNER APPROVAL WILL BE BILLED AS AN EXTRA TO THE CONTRACTOR AND SHALL BE PAID PRIOR TO COMPLETION OF THE INSPECTION REPORT.



INDEX & GENERAL NOTES

1143 PARADISE ALLEY RD
 FELTON, DE 19943
 KENT COUNTY, DE - MISPILLION HUNDRED
 TAX MAP #: 6-00-14900-01-0100
 OWNED BY & PREPARED FOR: CALVARY WESLEYAN CHURCH

SCALE: NONE

DATE: 2/2/2026

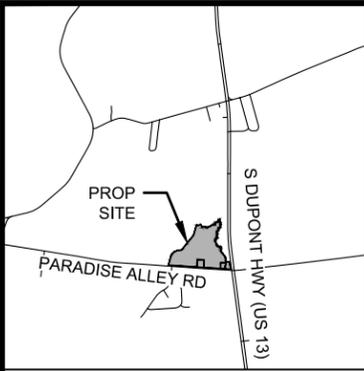
SHEET 1 OF 6

DESIGN BY: DLC

REVIEW BY: ET

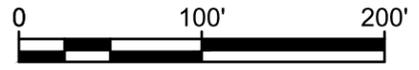
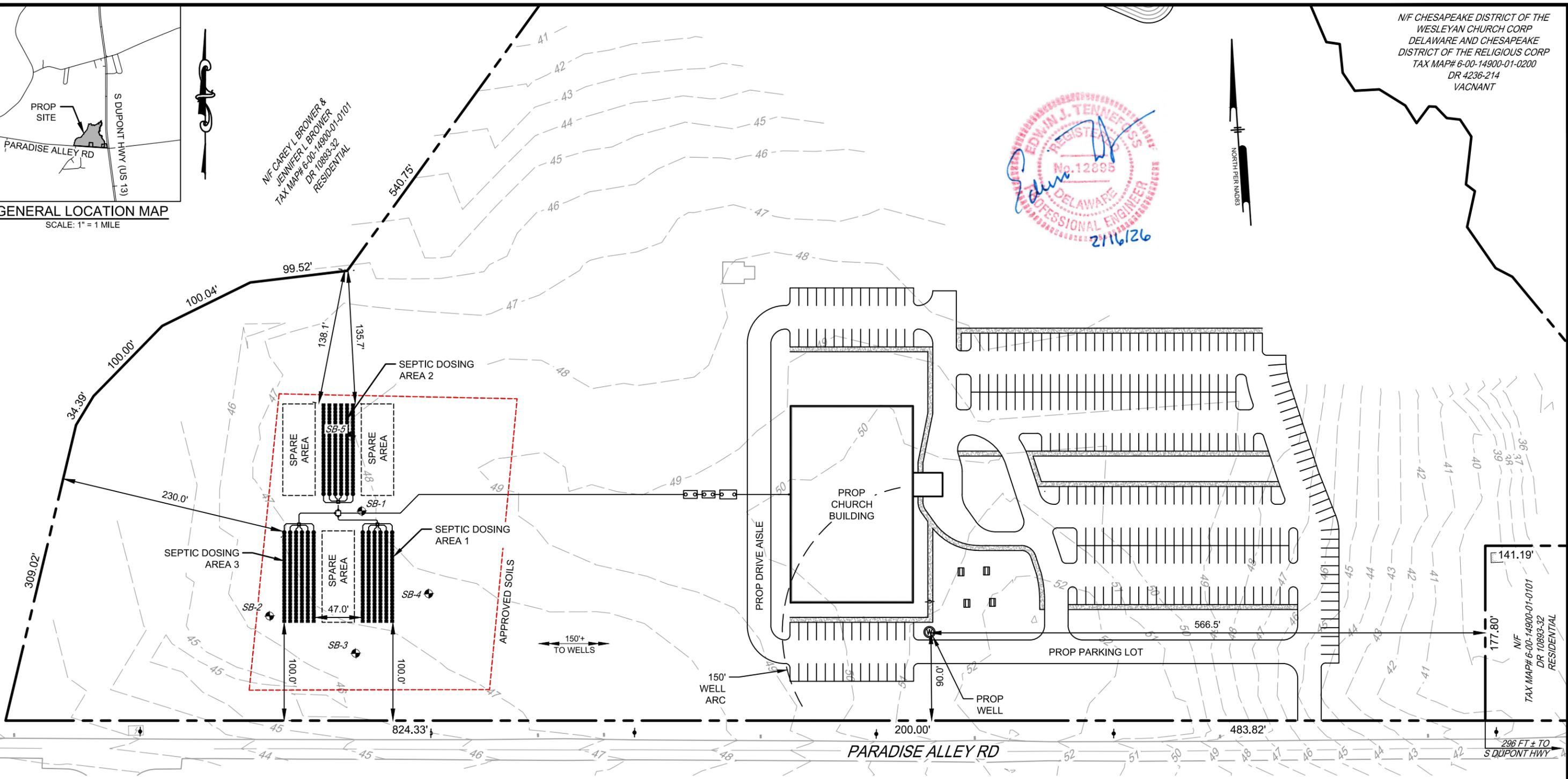
JOB NO. : 25-777

N/F CHESAPEAKE DISTRICT OF THE
WESLEYAN CHURCH CORP
DELAWARE AND CHESAPEAKE
DISTRICT OF THE RELIGIOUS CORP
TAX MAP# 6-00-14900-01-0200
DR 4236-214
VACNANT



GENERAL LOCATION MAP
SCALE: 1" = 1 MILE

N/F CAREY L. BROWNER &
JENNIFER L. BROWNER
TAX MAP# 6-00-14900-01-0101
DR 10893-32
RESIDENTIAL



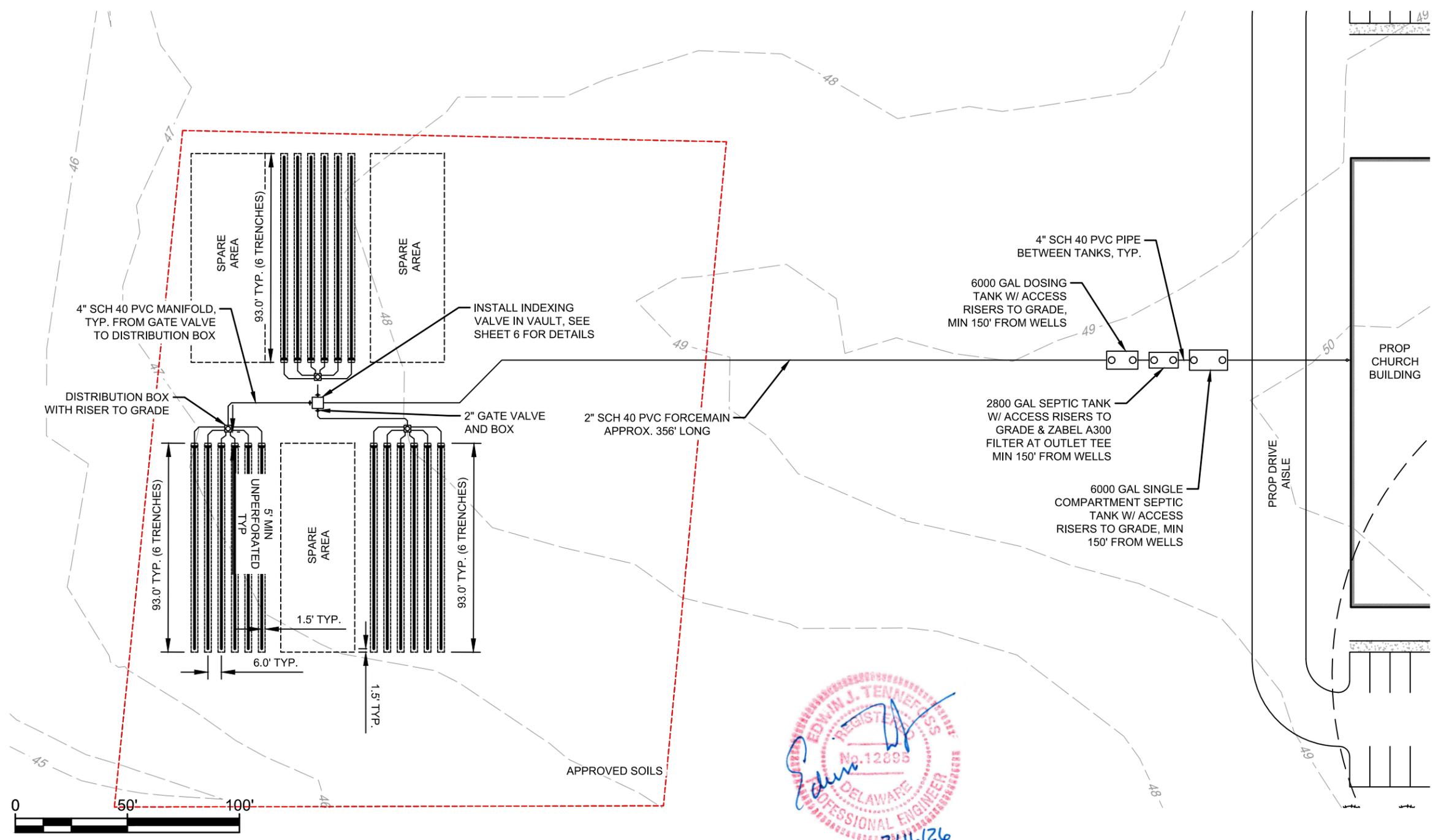
- NOTES:**
- TREES LOCATED WITHIN 10' OF STONE BED (EDGE OF TREE TO EDGE OF STONE BED) ARE TO BE REMOVED.
 - THERE ARE NO WATER COURSES OR WATER BODIES WITHIN 100-FEET OF THE PROPOSED DISPOSAL AREA.

OWNER'S/AUTHORIZED AGENT SIGNATURE: *Callie D.* DATE: 2/5/26

LEGEND

PROPERTY LINE	---
PROP. LINE ADJ.	- - - - -

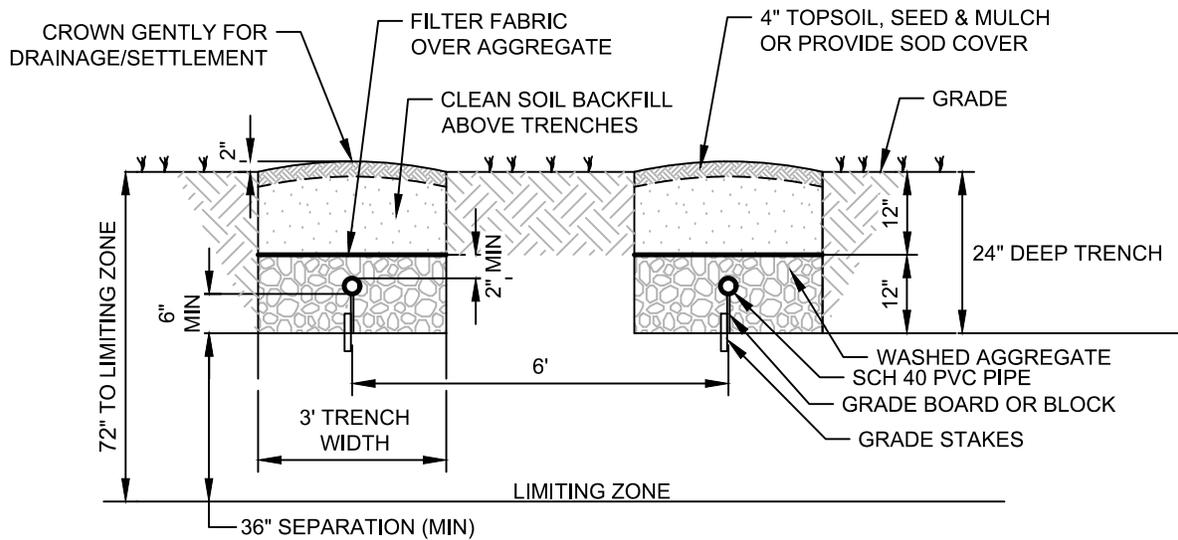
<h1 style="margin: 0;">SITEWORKS</h1> <h2 style="margin: 0;">ENGINEERING LLC</h2> <p style="font-size: small; margin: 0;">PO BOX 2, 39 COMMERCE ST, HARRINGTON, DE 19952 Phone: (302) 841-7901</p>		<p>SITE OVERVIEW</p> <p>1143 PARADISE ALLEY RD, FELTON, DE 19943 KENT COUNTY, DE - MISPELLION HUNDRED TAX MAP #: 6-00-14900-01-0100 OWNED BY & PREPARED FOR: CHESAPEAKE DISTRICT OF THE WESLEYAN CHURCH CORP DELAWARE AND CHESAPEAKE DISTRICT OF THE RELIGIOUS CORP</p>			
SCALE: 1" = 100'	DATE: 2/2/2026	SHEET 2 OF 6	DRAWN BY: DLC	REVIEW BY: ET	JOB NO. : 25-777



NOTES:

1. THIN WALL PIPE TO BE ASTM D 2729: 0.070 THICK WALLS
2. EDGE OF STONE TRENCH TO BE 10' MIN. TO HOME/BLDG, PROPERTY LINE, AND TREES

<h1 style="margin: 0;">SITWORKS</h1> <h2 style="margin: 0;">ENGINEERING LLC</h2> <p style="font-size: small; margin: 0;">PO BOX 2, 39 COMMERCE ST, HARRINGTON, DE 19952 Phone: (302) 841-7901</p>		<p>PLOT PLAN</p> <p>1143 PARADISE ALLEY RD, FELTON, DE 19943 KENT COUNTY, DE - MISPELLION HUNDRED TAX MAP #: 6-00-14900-01-0100 OWNED BY & PREPARED FOR: CHESAPEAKE DISTRICT OF THE WESLEYAN CHURCH CORP DELAWARE AND CHESAPEAKE DISTRICT OF THE RELIGIOUS CORP</p>			
SCALE: 1" = 50'	DATE: 2/2/2026	SHEET 3 OF 6	DRAWN BY: DLC	REVIEW BY: ET	JOB NO. : 25-777



TRENCH CROSS SECTION



NOTES

1. SEE SHEET 3 FOR SPACING OF LINES.
2. TYPAR TO BE STYLE 3201 BY DUPONT (OR EQUAL FILTER FABRIC BY OTHER MANUFACTURER). PROVIDE A 2" OVERLAP BOTH SIDES OF THE TRENCH.
3. CONTRACTOR TO PROVIDE OWNER WITH ONE ADAPTER TO CONNECT MALE END OF GARDEN HOSE TO LATERAL UPRIGHT END FOR ANNUAL BACKFLUSHING OF LINES AS RECOMMENDED BY DNREC (i.e. 3/4" NPT FEM/ 3/4" NHR FEMALE FITTING).
4. THE BOTTOM OF EACH INDIVIDUAL LATERAL LINE SHALL BE RUN LEVEL

SITWORKS
ENGINEERING LLC
 PO BOX 2, 39 COMMERCE ST, HARRINGTON, DE 19952 Phone: (302) 542-0774

TRENCH DETAIL

1143 PARADISE ALLEY RD
 FELTON, DE 19943
 KENT COUNTY, DE - MISPILLION HUNDRED
 TAX MAP #: 6-00-14900-01-0100
 OWNED BY & PREPARED FOR: CALVARY WESLEYAN CHURCH

SCALE: NTS

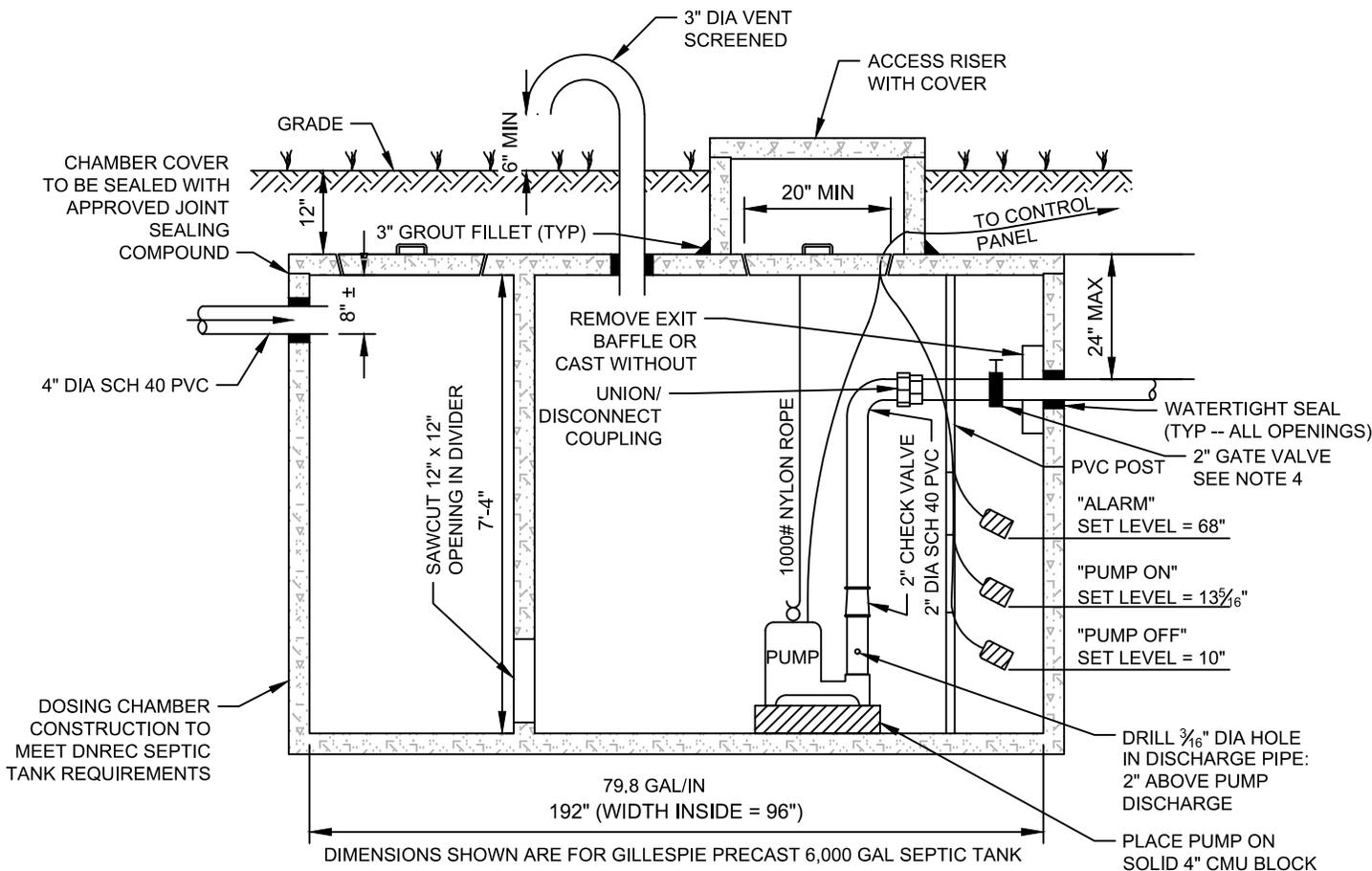
DATE: 2/2/2026

SHEET 4 OF 6

DESIGN BY: DLC

REVIEW BY: ET

JOB NO. : 25-777



ELEVATION VIEW

PUMP VOL PER 1/3 CYCLE = 264 GAL BY FLOATS
 267 GAL BY TIMER CONTROL
 NOTE, 1 FULL CYCLE = DOSING ALL THREE BEDS

TIMER SETTING:
 RUN: 10 MIN. 40 SEC
 OFF: 2.5 HOURS

PUMP:
 GOULDS MODEL
 WS0511B (1/2 HP)



NOTES:

- ALL ELECTRICAL CONNECTIONS INSIDE TANK TO BE EXPLOSION PROOF, CORROSION RESISTANT AND WATERPROOF
- ELECTRICAL INSTALLATIONS SHALL MEET ALL REQUIREMENTS OF NEC. LATEST EDITION
- CONTACT ENGINEER FOR INSPECTION OF SYSTEM INSTALLATION AND OPERATION PRIOR TO PLACING THE DOSING TANK IN OPERATION
- MAXIMUM DEPTH FROM GRADE TO INVERT OF DOSING CHAMBER TO BE 9'-0"
- EXCAVATION LIMITS SHALL EXTEND AT LEAST 2 FEET BEYOND TANK PERIMETER
- ALL DOSING CHAMBER COMPONENTS SHALL BE FIELD TESTED TO ENSURE ACCURACY, WATER TIGHTNESS, AND PROPER OPERATION OF ALL PUMPS AND ALARM CONTROLS.
- EQUIPMENT:
 - FLOAT SWITCHES – MERCURY TUBE TYPE SEALED IN FLOAT BALL AND RATED FOR VOLTAGE AND AMPERAGE OF SERVICE. FLOATS ARE NOT TO BE LOCATED DIRECTLY BELOW TANK INLET
 - ENCLOSURES – TO BE RATED FOR MOUNTING LOCATION NEMA-1 FOR INSIDE USE OR NEMA-3R FOR OUTSIDE USE
 - HIGH LEVEL ALARM – TO OPERATE ON SEPARATE 115 VOLT AC CIRCUIT FROM PUMP, ALARM TO ACTIVATE BOTH RED-LITE AND BELL OR BUZZER

SITWORKS
 ENGINEERING LLC
 PO BOX 2, 39 COMMERCE ST, HARRINGTON, DE 19952 Phone: (302) 542-0774

DOSING TANK DETAIL

1143 PARADISE ALLEY RD
 FELTON, DE 19943
 KENT COUNTY, DE - MISPILLION HUNDRED
 TAX MAP #: 6-00-14900-01-0100
 OWNED BY & PREPARED FOR: CALVARY WESLEYAN CHURCH

SCALE: NTS

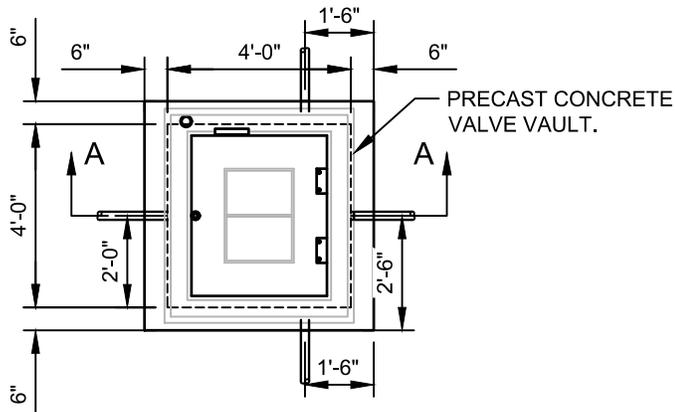
DATE: 2/2/2026

SHEET 5 OF 6

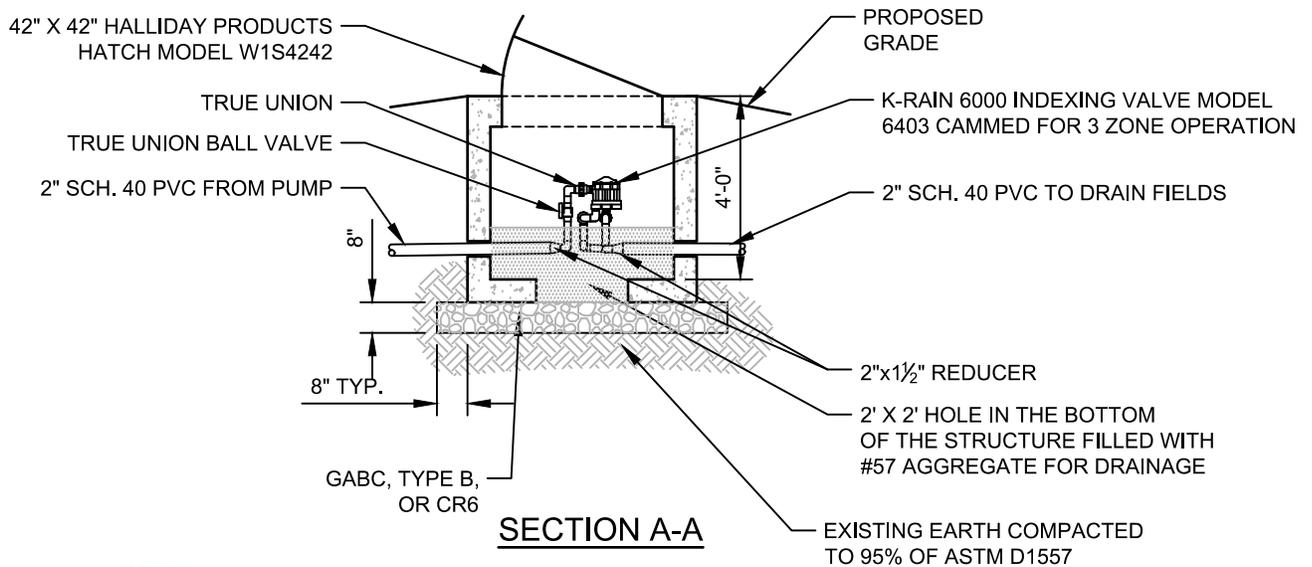
DESIGN BY: DLC

REVIEW BY: ET

JOB NO. : 25-777



PLAN VIEW



SECTION A-A



SITWORKS
ENGINEERING LLC
 PO BOX 2, 39 COMMERCE ST, HARRINGTON, DE 19952 Phone: (302) 542-0774

VALVE VAULT DETAIL

1143 PARADISE ALLEY RD
 FELTON, DE 19943
 KENT COUNTY, DE - MISPILLION HUNDRED
 TAX MAP #: 6-00-14900-01-0100
 OWNED BY & PREPARED FOR: CALVARY WESLEYAN CHURCH

SCALE: NTS

DATE: 2/2/26

SHEET 6 OF 6

DESIGN BY: DLC

REVIEW BY: ET

JOB NO. : 25-777



WS_B Series

Model 3886 **1/2 HP**

SUBMERSIBLE SEWAGE PUMP

FEATURES

Impeller: Cast iron, semi-open, dynamically balanced, non-clog with pump out vanes for mechanical seal protection. Optional Silicon bronze impeller available.

Casing: Cast iron volute type for maximum efficiency. Designed for easy installation on A10-20 guide rail or base elbow rail systems.

Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE sealing faces for superior abrasive resistance, stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components.

Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association
File #LR38549

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Sewage systems
- Dewatering/Effluent
- Water transfer

SPECIFICATIONS

Pump

- Solids handling capabilities: 2" maximum
- Discharge size: 2" NPT
- Capacities: up to 185 GPM
- Total heads: up to 38 feet TDH
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent

MOTORS

- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer. All ratings are within the working limits of the motor.
- Class B insulation

Single phase (60 Hz):

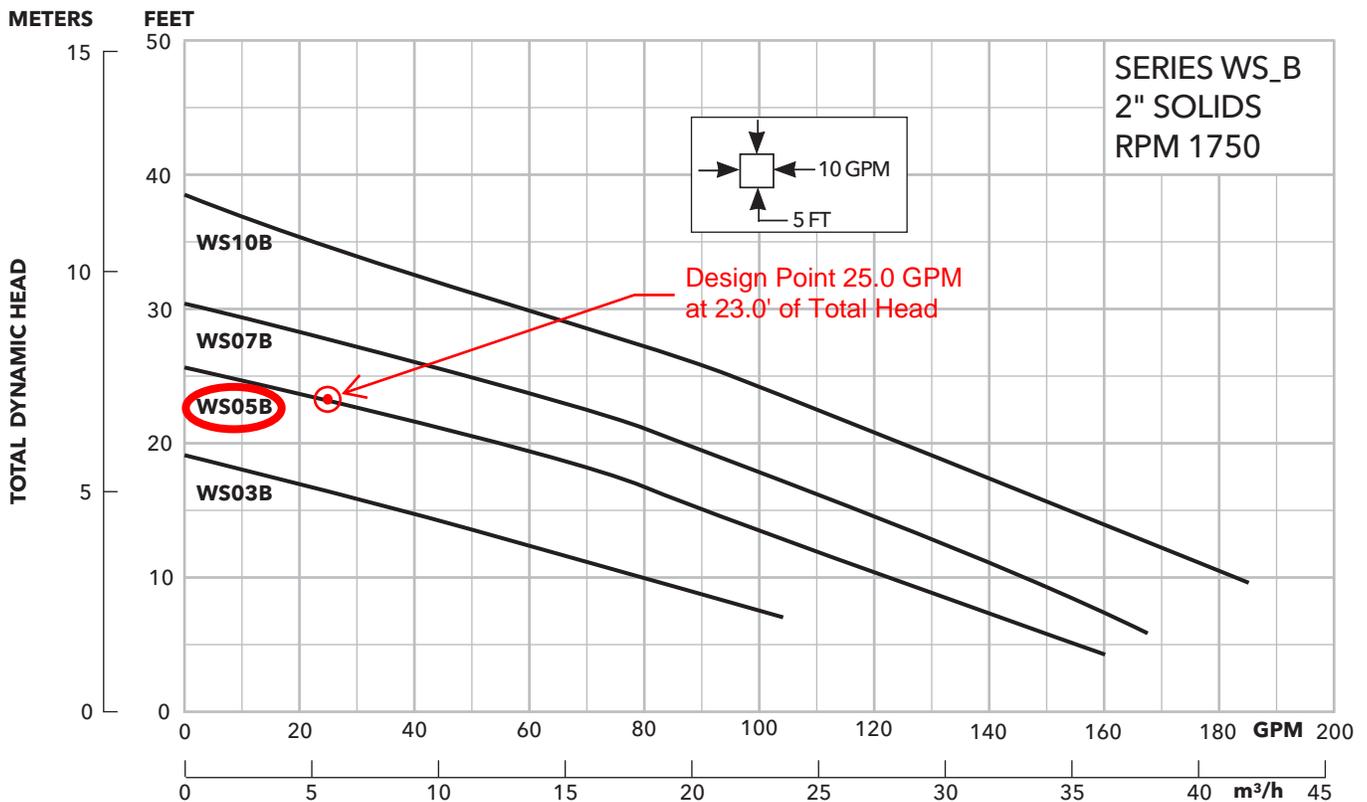
- All single phase models feature capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- 1/3 - 1 HP models have NEMA three prong grounding plugs.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- **Bearings:** Upper and lower heavy duty ball bearing construction.
- **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- **Motor Cover O-ring:** Assures positive sealing against contaminants and oil leakage.

MODELS

Order Number	HP	Phase	Volts	RPM	Impeller Dia. (In.)	Max. Amps	LRA	KVA Code	Full Load Motor Eff.	Resistance		Wt. (Lbs.)				
										Start	Line-Line					
WS0311B	0.33	1	115	1750	4.69	10.7	30.0	M	54	11.9	1.7	63				
WS0318B			208			6.8	19.5	K	51	9.1	4.2					
WS0312B			230			4.9	14.1	L	53	14.5	8.0					
WS0511B	0.5	3	115		5.00	5.00	14.5	31.1	J	55	9.3	1.4	65			
WS0518B			208				8.0	19.5	K	51	9.1	4.2				
WS0512B			230				7.3	16.5	J	54	11.7	5.6				
WS0538B	3	3	200			5.75	5.75	3.8	12.3	K	75	NA		6.7	85	
WS0532B			230					3.3	9.7	K	75	NA		9.9		
WS0534B			460					1.7	4.9	K	75	NA		39.4		
WS0537B	1	1	575				5.38	5.38	1.4	4.3	K	68		NA		47.8
WS0718B			208						11.0	39.0	K	65		2.6		1.4
WS0712B			230						9.4	24.8	J	57		4.8		2.3
WS0738B	0.75	3	200		5.75			5.75	4.1	21.2	H	74	NA	4.3		85
WS0732B			230						3.6	17.3	J	76	NA	5.6		
WS0734B			460						1.8	8.9	J	76	NA	22.4		
WS0737B	1	3	575	5.75		5.75		1.5	7.3	J	71	NA	29.2			
WS1018B			208					14.0	39.0	K	65	2.6	1.4			
WS1012B			230					12.3	30.5	H	60	4.3	1.8			
WS1038B	1	1	200			5.75		5.75	6.0	21.2	H	74	NA	4.3	85	
WS1032B			230						5.8	17.3	J	76	NA	5.6		
WS1034B			460						2.9	8.9	J	76	NA	22.4		
WS1037B	1	3	575		5.75			5.75	2.4	7.3	J	71	NA	29.2		



MODEL TD Control Panel

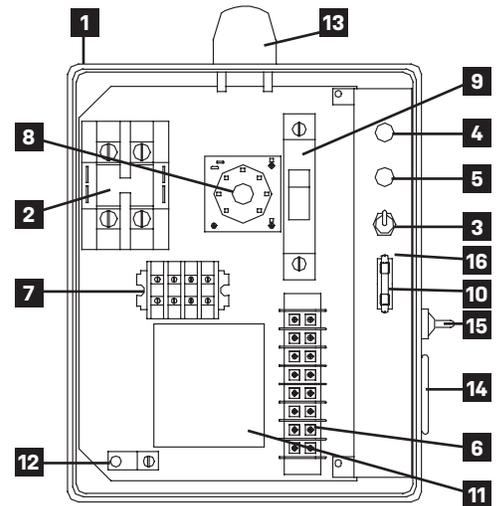
Single phase, simplex timed dosing pump control.

The Model TD control panel provides a reliable means of controlling one single phase pump in onsite septic installations. A programmable timer activates a magnetic motor contactor to turn the pump on and off. A low level cutout float overrides the timer to prevent the pump from running dry. An alarm float activates the audio/visual alarm system indicating a high liquid level. Common applications include sand filter systems, pressure distribution systems, mound systems, or any application requiring a timed dose.

PANEL COMPONENTS

1. **Enclosure** measures 10 x 8 x 4 inches (25.40 x 20.32 x 10.16 cm) NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
2. **Magnetic Motor Contactor** controls pump by switching electrical lines.
3. **HOA Switch** for manual pump control.
4. **Control Fuse**
5. **Alarm Fuse**
6. **Float Switch Terminal Block**
7. **Incoming Power Terminal Block**
8. **Programmable Timer** with separate variable controls allows for setting the on and off times from .05 seconds to 30 hours.
9. **Circuit Breaker** provides pump disconnect and branch circuit protection.
10. **Spare Fuse**
11. **Backplate Label** includes diagram of float, pump, and power connections.
12. **Ground Lug**

NOTE: Timer Installation Label and Pump/Float Switch Installation Specification Label are located inside the panel on enclosure cover.



Model Shown TD1W914X

STANDARD ALARM PACKAGE

13. **Red Alarm Beacon** provides 360° visual check of alarm condition.
14. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
15. **Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
16. **Horn Silence Relay** (mounted under bracket).

NOTE: other options available.



FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes two 20' float switches
- Available with EZconnex® float system
- Complete with step-by-step installation instructions
- Five-year limited warranty

OPTIONAL FEATURE

- **34" (86.36cm) Panel Mounting Post** (Factory Installed). Includes Duplex Installation Kit (Enclosure upsized to 10" x 8" x 6" (25.4 x 20.32 x 15.24 cm). Max. Enclosure size 14" x 12" x 6" (35.56 x 30.48 x 15.24 cm)



SJE RHOMBUS

1-888-DIAL-SJE • 1-218-847-1317

1-218-847-4617 Fax

email: customer.service@sjeinc.com

www.sjerrhombus.com

B.61

California Prop 65 requires the following:  WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**SEE REVERSE SIDE FOR ORDERING INFORMATION.
SEE PRICE BOOK FOR LIST PRICE.**

DOUBLE FLOAT® Pump Switch

Mercury activated, wide-angle switch designed to control pumps up to 1 HP at 120 VAC and 2 HP at 230 VAC.

This mercury activated, wide-angle pump switch provides automatic control of pumps in non-potable water and sewage applications. It is well-suited for confined applications requiring an accurate pumping range. It is not sensitive to rotation or turbulence. This switch is voltage sensitive - use with correct voltage.

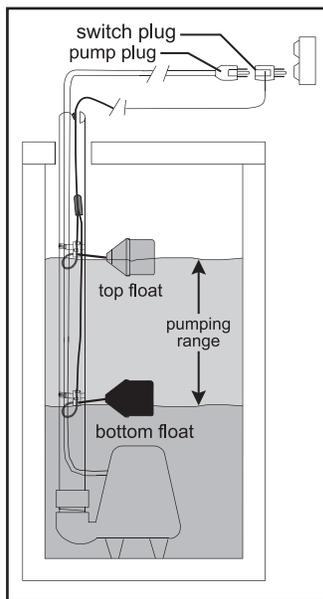
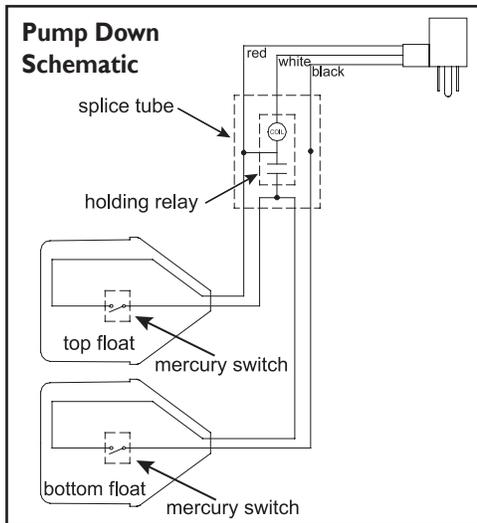
The **Double Float®** pump switch consists of two floats and a splice tube. Each float contains a heavy-duty mercury switch. The splice tube contains a holding relay which enables the floats to function in series.

The holding relay eliminates pump chatter in turbulent conditions allowing the **Double Float®** pump switch to operate relay control panels for larger pump applications.



FEATURES

- Controls pumps up to 1 HP at 120 VAC and 2 HP at 230 VAC.
- Adjustable pumping range of 1.75 to 48 inches (4.45 to 122 cm) with increased pumping range up to 6 feet (1.8 meters) available.
- Includes standard mounting clamps and boxed packaging.
- UL Recognized for use in non-potable water and sewage.
- CSA Certified.
- Five-year limited warranty.



SPECIFICATIONS

Cable attached to float housing: flexible 14 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE)

Cable above splice: flexible 14 gauge, 3 conductor (UL, CSA) SJTW, water-resistant, thermoplastic

FLOATS: 3.38 inch diameter x 4.55 inch long (8.58 x 11.56 cm) high impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140°F (60°C)

MERCURY SWITCH: mercury-to-mercury contacts, hermetically sealed in a steel capsule

ELECTRICAL:

120 VAC 50/60Hz Single Phase:

Maximum Pump Running Current:

15 amps

Maximum Pump Starting Current:

55 amps

Recommended Pump HP:

1 HP or less

230 VAC 50/60Hz Single Phase:

Maximum Pump Running Current:

12 amps

Maximum Pump Starting Current:

35 amps

Recommended Pump HP:

2 HP or less

NOTE: This switch must be used with pumps that provide integral thermal overload protection.

OPTIONS

This switch is available:

- for pump down or pump up applications as specified by part number.
- with a 120 VAC or 230 VAC piggy-back plug.
- without a plug for direct wiring (120 VAC units can only be used with 120 VAC applications within specified amp ratings. 230 VAC units can only be used with 230 VAC applications within specified amp ratings).
- in standard cable lengths of 15, 20, or 30 feet and 5 or 10 meters (longer lengths available).

California Prop 65 requires the following: WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**SEE REVERSE SIDE FOR ORDERING INFORMATION.
SEE PRICE BOOK FOR LIST PRICE.**



SJE RHOMBUS®

1-888-DIAL-SJE • 1-218-847-1317

1-218-847-4617 Fax

email: customer.service@sjeinc.com

www.sjerhombus.com

DOUBLE FLOAT® Pump Switch

Mercury activated, wide-angle switch designed to control pumps up to 1 HP at 120 VAC and 2 HP at 230 VAC.

ORDERING INFORMATION

PUMP DOWN 		PUMP UP 		Shipping Weight
Part #	Description	Part #	Description	
1002022	15DFD1WP	1002030	15DFU1WP	3.63 lbs.
1002024	15DFD2WP	1002032	15DFU2WP	3.64 lbs.
1002026	15DFD1WOP	1002034	15DFU1WOP	3.55 lbs.
1002028	15DFD2WOP	1002036	15DFU2WOP	3.51 lbs.
1002038	20DFD1WP	1002046	20DFU1WP	4.04 lbs.
1002040	20DFD2WP	1002048	20DFU2WP	4.08 lbs.
1002042	20DFD1WOP	1002050	20DFU1WOP	3.97 lbs.
1002044	20DFD2WOP	1002052	20DFU2WOP	4.01 lbs.
1002054	30DFD1WP	1002062	30DFU1WP	4.95 lbs.
1002056	30DFD2WP	1002064	30DFU2WP	4.99 lbs.
1002058	30DFD1WOP	1002066	30DFU1WOP	4.86 lbs.
1002060	30DFD2WOP	1002068	30DFU2WOP	4.87 lbs.

D = Pump Down U = Pump Up 1 = 120 VAC 2 = 230 VAC

WP = With Plug WOP = With Out Plug

NOTE: Descriptions are grouped by cable length measured in feet (15, 20, 30).
SEE PRICE BOOK FOR LIST PRICE.

OPTIONS

PACKAGING

Boxed - standard
Bagged - optional
Bulk - optional; must be ordered in master carton quantities.

Please contact customer service for details/pricing.

ADDITIONAL CABLE

Longer cable lengths available. Please call for details.

UL Recognized for
Water & Sewage



LR54245



SPECIFICATIONS

PUMPING RANGE: 1.75 to 48 inches (4.45 cm to 122 cm), increased pumping range available. Call factory for quote.

CABLE ATTACHED TO FLOAT HOUSING: flexible 14 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE)

CABLE ABOVE SPLICE: flexible 14 gauge, 3 conductor (UL, CSA) SJTW, water-resistant thermoplastic

FLOAT: 3.38 inch diameter x 4.55 inch long (8.58 cm x 11.5 cm), high impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140°F (60°C)

ELECTRICAL:

Voltage 50Hz/60Hz Single Phase	Max. Pump Run Current	Max. Pump Start Current	Recommended Pump HP
120 VAC	15 amps	55 amps	1 HP or less
230 VAC	12 amps	35 amps	2 HP or less

NOTE: This switch must be used with pumps that provide integral thermal overload protection.

OTHER INFORMATION

PUMP DOWN is normally open contacts for emptying.

PUMP UP is normally closed contacts for filling.

DIRECT WIRING

120 VAC units used for direct wiring (without plug) can **only** be used with **120 VAC** applications within specified amp ratings.

230 VAC units used for direct wiring (without plug) can **only** be used with **230 VAC** applications within specified amp ratings.



SJE RHOMBUS.

www.sjrhombus.com
customer.service@sjinc.com

Call or fax your order!

1-888-DIAL-SJE (1-888-342-5753) • Fax 218-847-4617

Product offering and pricing are subject to change without notice.
Please visit www.sjrhombus.com for the most current information.



KENT COUNTY LEVY COURT

555 Bay Road, Dover, Delaware 19901-3615
(302) 744-2300 -- FAX (302) 736-2279

"Serving Kent County With Pride"

PROPERTY RECORD REPORT

Parcel Information:

Parcel ID: 6 00 14900 01 0100 000
User Account #: 28147
Tax Account ID: 28147
Property Code: R -
Property Type: Residential - Vacant Land
Improvement Status: N/A
Deed BVP: D 4236/214
Plat Book: 00000

GIS Cord: E-456337 N-354417
Flood Plain: N/A
Zoning: AR - Agricultural Residential
Lot #: Acres: 31.3
Total Living Area: 0 SQFT
Total Beds/Baths/Half Baths: 0 / 0 / 0
Legal Description: N SD PARADISE ALLEY RD 31.3 A
 1143 PARADISE ALLEY RD

Owner Information:

Name(s): CHESAPEAKE DISTRICT OF
 THE WESLEYAN CHURCH CORP
 DELAWARE
 CHESAPEAKE DISTRICT OF THE
 RELIGIOUS CORP
Address: 240 DELAWARE AVENUE,
 HARRINGTON, DE 19952

District Information:

Levy Court District: 6TH
Fire: 48_F Felton Community
Ambulance: 48_A Felton Community
School: SC22 LAKE FOREST
Sewer:
Sewer ID:
Trash:
Light:
Stormwater:
Tax Ditch:

Assessed Values:

Land: \$164,500
Buildings: \$0
Yard: \$0
Total: \$164,500

Location Information:

Location Address: 1143 PARADISE ALLEY
 RD, FELTON, DE 19943
Subdivision:

Transfers:

Recorded Date: 12/28/2007
Sale Date: 1/1/1900
Price: \$0
Legal Ref: D 4236-214

County Billing:

Pending: \$0.00
Base Tax: \$0.00
Penalty / Interest: \$0.00
Other: \$0.00
Total Due: \$0.00

Permits:

Permit #: 2011-2534-DEMS
Status: AP
Application: 11/10/2011
Issued: 11/10/2011
C of O:

Permit #: 2011-1645-DEMO
Status: AP
Application: 7/12/2011
Issued: 7/13/2011
C of O:

Permit #: 2004-57-AGRI
Status: CL
Application: 1/7/2004
Issued: 1/7/2004
C of O:

Sewer Billing:

Account #:
Customer #:
Units: 0.0
Balance: \$0.00

Kent County Levy Court has made all attempts to ensure the correctness and suitability of information under our control and to correct any problems or errors which have been brought to our attention, no representation or guarantee can be made as to the correctness or suitability of that information or any other information presented, referenced, or implied. The information provided in this document is for reference only so anyone using this information should first consult original records and personally verify the accuracy of any information/data provided in the document. The use of this information is at your own risk.

System Curve: Calvary Wesleyan Pump Station

SYSTEM CURVE - HAZEN WILLIAMS
 WHERE $4.73 Q^{1.85} L/C^{1.85} d^{4.87}$ = friction head
 WHERE $V^2/2G$ = velocity head
 WHERE $M V^2/2G$ = minor loss head

February 14, 2026

STATIC HEAD 13

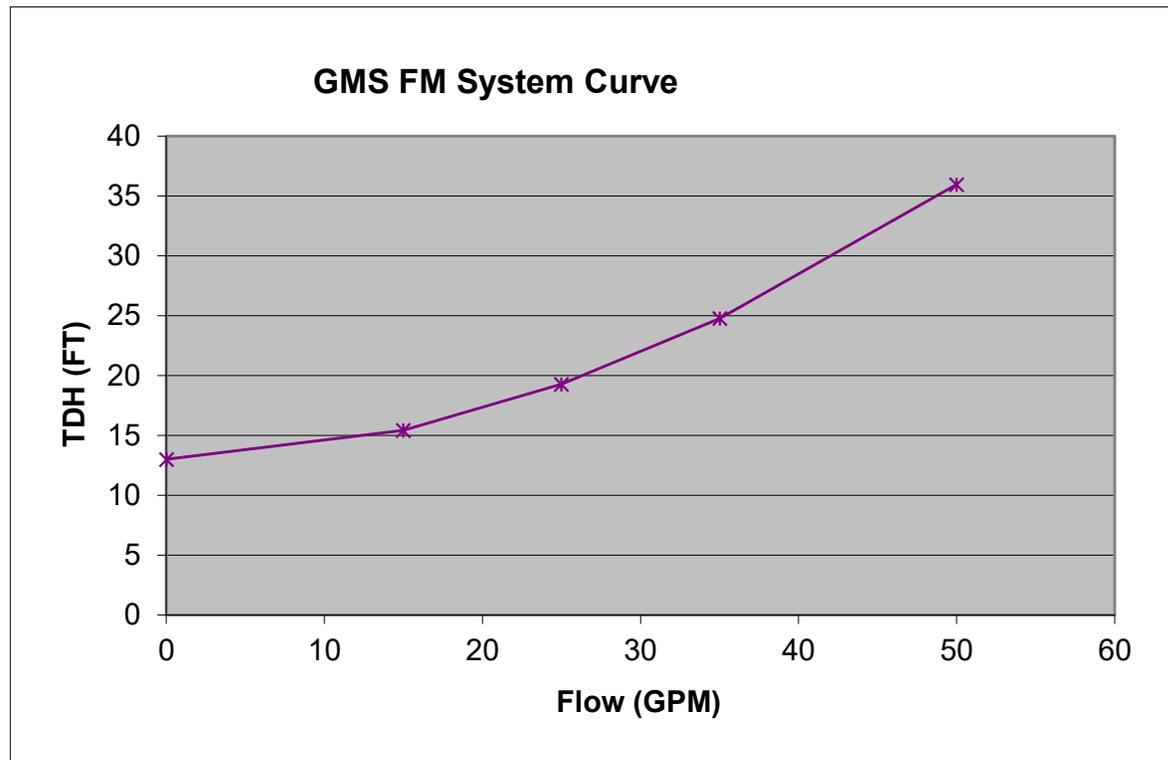
FOR LENGTH 1 :
 ENTER C : 140
 ENTER DIA. (inches) : 2
 ENTER LENGTH (ft) : 10
 ENTER MINOR COEF : 6

FOR LENGTH 2:
 ENTER C : 140
 ENTER DIA. (inches) : 2
 ENTER LENGTH (ft) : 356
 ENTER MINOR COEF : 2

FOR LENGTH 3:
 ENTER C : 140
 ENTER DIA. (inches) : 4
 ENTER LENGTH (ft) : 46
 ENTER MINOR COEF : 3

ENTER Q-1 : 0
 ENTER Q-2 : 15
 ENTER Q-3 : **25**
 ENTER Q-4 : 35
 ENTER Q-5 : 50

DATA OUTPUT TABLE							
Q (gpm)	Hstat (ft)	Hf (ft)	Hm (ft)	Hv (ft)	TDH (ft)	TDH (psi)	Velocity (fps)
0	13	0.000	0.000	0.000	13.000	5.63	0.00
15	13	2.083	0.291	0.036	15.410	6.67	1.51
25	13	5.360	0.809	0.099	19.267	8.34	2.52
35	13	9.988	1.585	0.194	24.767	10.72	3.53
50	13	19.322	3.235	0.395	35.952	15.56	5.04





Calvary Wesleyan Church

Property Address: 1143 Paradise Alley Rd

Felton, DE 19943

Tax Map No. 6-00-14900-01-0100-00001

Septic Equalization - Projected Flows (1000 seat church)

	Sat	Sun	Mon	Tue	Wed	Thur	Fri	Total	Ave. Flow / Day
Total GPD Generated	2,500	5,400	200	370	510	375	0	9,355	1,336
Gallons in the Dosing Tank - Start of the Day	0	100	3,100	900	0	0	0		
Daily Dosing Volume (Gal)	2,400	2,400	2,400	2,400	2,400	2,400	2,400		
Gallons in Dosing Tank - End of the Day	100	3,100	900	0	0	0	0		
Effective Dosing Tank Volume Remaining (6,000) Gal Tank	5,900	2,900	5,100	6,000	6,000	6,000	6,000		

Event Description	Day of the Week	Persons in Attendance	GPD / Unit	GPD Flow
Office Staff	Mon - Thur	10	20	200
Worship & Kids Ministry	Sunday	1,000	5	5,000
Student Ministry - Evening	Sunday	80	5	400
Small Group	Tue	18	5	90
Student Crew Nights	Tue	16	5	80
Worship Team Practice	Wed	14	5	70
Recovery Group	Wed	20	5	100
Adult Small Group	Wed	8	5	40
Womens's Small Group	Wed	15	5	75
Grief Share Small Group	Wed	5	5	25
Senior Adjult Group	Thur	20	5	100
Misc. Committee Meetings	Thur	15	5	75
Special Gathering (Wedding, Funeral, Etc.)	Sat	500	5	2,500