JOHN H. ALLGAIR, PE, PP, LS (1983-2001)
DAVID J. SAMUEL, PE, PP, CME
JOHN J. STEFANI, PE, LS, PP, CME
JAY B. CORNELL, PE, PP, CME
MICHAEL J. McCLELLAND, PE, PP, CME
GREGORY R. VALESI, PE, PP, CME



SEE ATTACHED PERMIT CONDITIONS PERMIT EXPIRES

MAR 24 2025

BRUCE M. KOCH, PE, PP, CME
LOUIS J. PLOSKONKA, PE, CME
TREVOR J. TAYLOR, PE, PP, CME
BEHRAM TURAN, PE, LSRP
LAURA J. NEUMANN, PE, PP
DOUGLAS ROHMEYER, PE, CFM, CME
ROBERT J. RUSSO, PE, PP, CME
JOHN J. HESS, PE, PP, CME
KEITH CHIARAVALLO, PE, CME

Date:	March 24, 2023				
Date of Plan: _January 24, 2023					
Revision Date	of Plan: March 23, 2023				

Sent Via Electronic Mail

Matthew J. Olejarski Principal Registered Environmental Health Specialist Gloucester County Department of Health and Human Services 204 East Holly Ave Sewell, NJ 08080

RE: Municipal Code: 11

Block(s) 5601 Lot(s) 16 Address: 3132 South Black Horse Pike, Williamstown, NJ 08094

Dear Mr. Olejarski:

Please be advised that submitted septic design for the above referenced block(s) and lot(s) have been reviewed by this office. Based on this review, we recommend the following actions:

APPROVAL	DISAPPROVAL/RESUBMIT FOR REVIEW
х	

This application is subject to all other outside agency approvals were applicable. If disapproval/resubmit for review is noted above, reasons for same are listed below:

Very truly yours,

CME Associates

Edward F. D'Armiento, PE, CME, CFM

03/24/2023

Consulting Engineer

Date

cc: Shane Papson - Applicant

South Jersey Engineers, LLC - Applicant's Engineer

Monroe Township



ADDITIONAL SEPTIC SYSTEM PERMIT REQUIREMENTS Monroe Twp., Block 5601, Lot 16

- 1. Contractor to confirm positive drainage away from field prior to construction.
- Consulting & Municipal Engineers (CME) to inspect the excavation of the disposal area to a depth of 9.50 - 9.75 feet (elevation 89.25) from existing grade, upslope elevation 98.75 - 99.00.
- 3. Excavation must be 30 x 37 feet and disposal bed must be 30 x 37 feet.
- 4. Engineer must inspect and certify compaction and elevation of suitable fill material to elevation 95.50.
- Installer shall cease work if he is unable to install the disposal field with LOI at elevation 95.50 and contact the design engineer and CME.
- 6. CME to inspect the backfill prior to placing stone.
- 7. CME to inspect the bedding prior to placing topsoil.
- 8. CME to inspect the final grade.
- 9. Engineer must certify suitability of fill material by appropriate testing.
- 10. Please provide a copy of a water tightness test of the septic tank in accordance with the regulations
- 11. No parking or driving with the disposal area.
- 12. Trees within 10 feet of the disposal area to be removed prior to the system installation, and if any tree roots of 1" or greater are observed during the excavation, that tree shall also be removed
- 13. Connecting pipes must be PVC (ASTM D 2665)—schedule 40, SDR-21 or SDR-26.
- 14. Connecting pipes going under a driveway shall be PVC Schedule 80 or equivalent
- 15. Distribution pipes for system must be PVC ASTM D-2729, D-3033 or D-3034; Polyethylene, straight wall (ASTM F-810); Styrene-Rubber (ASTM D-2852, D-3298); ABS (ASTM D-2751)
- 16. All laterals must be directly connected directly to the distribution box.
- 17. No soil from the excavation may be reused for backfill.
- 18. No irrigation heads permitted on or within 10 feet of the disposal field.
- 19. Minimum 6" Effluent filter must be utilized with handle with adequate extension to allow access for cleaning through manhole
- 20. Design not approved for garbage disposal system
- 21. Design not approved for an ejector pump
- 22. Design not approved for expansion attic
- 23. 48-Hour advanced notice required for scheduling all on-site inspections with CME
- 24. Existing system to be pumped and properly abandoned, please provide pumping receipts
- 25. Receipts to be provided for all material installed. (sand and stone). A gradation sheet must be submitted to CME prior to the installation of any stone. Per N.J.A.C. 7:9A 10.3 (e) 2, the stone gradation must meet the requirements of AASHTO size #3, #4, or #24.
- 26. A permanent, non-corrosive marker a minimum of six square inches in size shall be attached to the manhole cover or riser immediately below the cover. The marker shall include the administrative authority under which the system was installed, the date of installation, the type of system, the total design criteria in gallons per day, and the municipality, block, and lot number.

PLEASE NOTE: THE APPLICANT IS RESPONSIBLE FOR OBTAINING ALL OTHER REQUIRED FEDERAL, STATE OR LOCAL APPROVALS PRIOR TO THE COMMENCEMENT OF WORK UNDER THIS APPROVAL, INCLUDING BUT NOT LIMITED TO, NJDEP PERMITS TO CONDUCT ACTIVITIES IN FRESHWATER WETLANDS, FRESHWATER WETLAND TRANSITION AREAS, OR FLOOD PLAIN JURISDICTIONS. FAILURE TO OBTAIN THESE PERMITS PRIOR TO CONDUCTING REGULATED ACTIVITIES WITHIN THESE AREAS MAY RESULT IN REMOVAL OF THE SYSTEM AND OR THE ASSESSMENT OF SIGNIFICANT CIVIL PENALTIES.

APPLICANT SHALL NOTIFY CME REGARDING A MODIFICATION OF PLANS OR SPECIFICATIONS FOR THE SUBSURFACE DISPOSAL SYSTEM APPROVED HEREIN; ANY MODIFICATION TO THE PLANS OR SPECIFICATIONS MADE WITHOUT PRIOR APPROVAL FROM CME SHALL RENDER THIS APPROVAL NULL AND VOID, AND REQUIRE A NEW APPLICATION BE SUBMITTED AND APPROVED BY CME BEFORE WORK MAY RESUME

IF IT IS NOT POSSIBLE TO BRING THE SYSTEM INTO CONFORMANCE WITH 7:9A, THE SYSTEM SHALL BE BROUGHT AS CLOSE TO CONFORMANCE WITH THE REQUIREMENTS OF 7:9A AS POSSIBLE, PROVIDED THE STSTEM AS IMPROVED RESULTS IN A DISCHARGE THAT IS PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

APPLICATION SHALL BE SUBMITTED ELECTRONICALLY TO CME FOR REVIEW BY DESIGN ENGINEER PAYMENT SHALL BE SUBMITTED TO GCHD (CHECK OR MONEY ORDER ONLY)
ONSITE INSPECTIONS MUST BE SCHEDULED VIA EMAIL: GCHD@CMEUSA1.COM

MUNICIPALITY MONROE TOWNSHIP	
Form 1-General Information 1. Type of Permit Needed	
New Construction (\$350.00)	
X Alteration (\$300,00)Expansion/Change of use X MalfunctionNo Expansion/Change of t Repair in Kind (Engineer required) (\$135.00)	use
Revision (\$175.00)	YES/NO
X Permit Renewal (\$100.00) - Ejector Pump Incorporated: YES	S/MO Convenience use YES/MO
Property for Sale: YES / NO Settlement Date: -Expansion Attic Incorporated: YES / In-Law Suite Incorporated: YES /	ES/NO Attached / Detached
MONROE	
2. Location of Project: Municipality TOWNSHIP Block 5601 Lot 16 Street Address 3132 SOUTH BLACK HORSE PIKE, WILLIAMSTOWN, NJ Zip 08094	
	SEE ATTACHED
3. Name of Applicant (print) SHANE PAPSON: Present Address: 640 WEST PINEY HOLLOW, WILLIAMSTOWN, NJ 08094	PERMIT CONDITIONS
Applicant's Phone Number:	— PERMIT EXPIRES
Applicant's Agent Name and Applicant's Email address:	
	MAR 2 4 2025
4. Type of Facility: Residential: Number of Dwelling Units: 1 Number of Bedrooms 4 Duplex: Yes	No X
Commercial/Institutional: Specify Type of Establishment: N/A	N5
5. Type of Wastes to be discharged:	
Sanitary Sewage X Industrial Waste (NJDEP Approval requ	ulred)
Other-Specify Type:	
6. Water Supply: X Individual Municipal If individual, will existing well be utilized? You	,
· · · · · · · · · · · · · · · · · · ·	esNo^
7. Other Approvals/Certification/Waivers/Exemptions (Attach to application) Pinelands Commission: Provide certificate of filing	3
Municipal MUA Waiver/Municipal Ordinance Review Letter/Municipal Stamp on plans/Convenience Ba	sement Bathroom
NIDEP-Bureau of Flood Plain Management Other-Specify:	
i hereby certify that the information furnished on Form 1 of this application is true. I am aware that false to prosecution.	swearing is a crime in this State and subject
1 10	00.77
Signature of Applicant Date 7	0000
	Marie Control of the
FOR AGENCY USE ONLY	
Application Denled-Reason for Denial:	
- x	
Application ApprovedApplication Approved Subject to Approval by:	
Date of Action 03/24/2023	
Date of Action 03/24/2023 Signature	
REV. DATE 8-14-20 - REV. AS PER COUNTY H.D. COMMENTS	
REV. DATE 2-16-23 - REV. AS PER COUNTY H.D. COM	MENTS
REV. DATE 2-28-23 - REV. AS PER COUNTY H.D. COM	MENTS
REV. DATE 3-23-23 REV. AS PER COUNTY H.D. COM	MENTS

APPLICATION SHALL BE SUBMITTED ELECTRONICALLY TO CME FOR REVIEW BY DESIGN ENGINEER PAYMENT SHALL BE SUBMITTED TO GCHD (CHECK OR MONEY ORDER ONLY)
ONSITE INSPECTIONS MUST BE SCHEDULED VIA EMAIL: GCHD@CMEUSA1.COM

	MUNICIPALITY	MONROE TOV	WSHIP			
Form 2a-General Site Evaluation Data	Block	<i>5601</i> Lot	16		14 15	
1. Name of Site Evaluator (print): SC	OUTH JERSEY ENGINEE	RS, L.L.C.		ğ.		
2. Business Address: P.O. BOX 140	06, VOORHEES, NJ 08	043				
3. Business Phone: (856) 651—5	9050					
Excessively Stony Sand Dunes	Check appropriate categor _Bedrock Outcrop Disturbed Ground Steep Slopes TIONS/IMPROVEMENTS	Wetlands Sink Hole	es			
5. Soil Logs-Enter on Form 2b-Use on	e sheet for each soil log.					
6. Considerations Relating to Disturb	ed Ground:					
a) Type of Disturbance (Check approp Filled Area Excav Subsurface Drains		Re-Graded Are	ea .			
b) Pre-existing Natural Ground Surface Elevation Relative to Existing Ground S			Method	of Identification		
c) Suitability of Disturbed Ground Unsuitable: Objects Subject to Disinte Excessively Coarse Proctor Test performed-% Standard Pr		ne				
 Hydraulic Head Test: Hydraulically Restrictive Horizon: De Piezometer A: Depth to Bottom Piezometer B: Depth to Bottom 		Vater Level (24 hrs).)De	epth of Water Level	(24 hrs.)	
d) Witnessed by	Signature		Date			
8. Attachments (Check items included XSite Plan X Key Map Showing Location of Site on U Another Accurate Map X Key Map Showing Location of Site on U Other-Specify	.S.G.S. Quadrangle or				**************************************	
9. I hereby certify that the information that falsification of data is in violation of N.J.A.C. 7: 14-8.			8: IOA-I et seq.) and			
Signature of Soil Evaluator	M	Date	1-24-23			
Signature of Professional Engineer		License	# GE28106			
	,	1		100		

MUNICIPALITY Monroe Township (3132 South Blackhorse Pike) Form 2b - Soil Log and Interpretation Block 5601 Lot 16 1.Log Number TP#1 Method (Check One): Boring 2. Soil Log Witnessed by: Waived Depth Munsel Color Name and Symbol: Estimated Textural Class: (inches) Estimated Volume % Coarse Fragment, if present; Structure: Top-Bottom Moist or Dry Consistence; Mottling-Abundance, Size and Contrast, if present 0"-10" brown Loamy Sand; sub-angular blocky, friable (10yr 5/3)10"-30" strong brown (7.5yr 5/8) fine Sandy Loam; sub-angular blocky, friable 30"-70" strong brown (7.5yr 5/8) Sandy Clay Loam; sub-angular blocky, friable 70"-100" yellowish red medium to fine Sandy Loam; sub-angular blocky, friable (5yr 5/8)100"-133" yellowish brown (10yr 5/6) fine to very fine Sandy Loam; sub-angular blocky, friable 3. Ground Water Observations: XXX Seepage - Indicate Depth Pit/ Boring Flooded-Depth after Hours 4. Soil Limiting Zones (Check Appropriate Categories): Fractured Rock Substratum- Depth to Top Massive Rock Substratum - Depth to Top Excessively Coarse Horizon - Depth to Bottom Excessively Course Substratum - Depth to Top Hydraulically Restrictive Horizon - Depth Top to Bottom Hydraulically Restrictive Substratum - Depth to Top Perched Zone of Saturation - Depth Top to Bottom Regional Zone of Saturation - Depth to Top NE 5. Soil Suitability Classification: 6. I hereby certify that the information furnished on form 2b of this application is true and accurate. I am aware that falsification of data is a violation of the water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8. Signature of Site Evaluator Date Signature of Professional Engineer License # GE28106

"SOIL LOGS ARE FOR SEPTIC SYSTEM USE ONLY AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE"

MUNICIPALITY Monroe Township (3132 South Blackhorse Pike) Form 2b - Soil Log and Interpretation Block 5601 Lot 16 1.Log Number TP#2 Method (Check One): Profile Pit Boring Witnessed by: Waived 2. Soil Log Depth Munsel Color Name and Symbol: Estimated Textural Class; Estimated Volume % Coarse Fragment, if present; Structure; (inches) Top-Bottom Moist or Dry Consistence; Mottling-Abundance, Size and Contrast, if present 0"-13" brown. Loamy Sand; sub-angular blocky, friable (10yr 5/3)13"-80" strong brown (7.5yr 5/8) fine Sandy Loani; sub-angular blocky, friable 80"-112" strong brown (7.5yr 5/8)Sandy Clay Loam; sub-angular blocky, friable 112"-1001 yellowish red (5yr 5/8) medium to fine Sandy Loam / Loamy Sand; sub-angular blocky, friable 100"-133" yellowish brown (10yr 5/6) medium to fine Loamy Sand / Sand; single grain, loose, Gravel 40% 3. Ground Water Observations: Seepage - Indicate Depth XXX Pit/ Boring Flooded-Depth after Hours 4. Soil Limiting Zones (Check Appropriate Categories): Fractured Rock Substratum- Depth to Top Massive Rock Substratum - Depth to Top Excessively Coarse Horizon - Depth to Bottom Excessively Course Substratum - Depth to Top Hydraulically Restrictive Horizon - Depth Top to Bottom Hydraulically Restrictive Substratum - Depth to Top Perched Zone of Saturation - Depth Top to Bottom Regional Zone of Saturation - Depth to Top NE 5. Soil Suitability Classification: 6. I hereby certify that the information furnished on form 2b of this application is true and accurate. I am aware that falsification of data is a violation of the water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C 17:14-8. Signature of Site Evaluator Date Signature of Professional Engineer

"SOIL LOGS ARE FOR SEPTIC SYSTEM USE ONLY AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE"

License #

GE28106

APPLICATION SHALL BE SUBMITTED ELECTRONICALLY TO CME FOR REVIEW BY DESIGN ENGINEER
PAYMENT SHALL BE SUBMITTED TO GCHD (CHECK OR MONEY ORDER ONLY)
ONSITE INSPECTIONS MUST BE SCHEDULED VIA EMAIL: GCHD@CMEUSA1.COM

	M	UNICIPALIT	Υ	MONRO	E TOWNSHIP				
Form 3a. Soil Permeabi	ility Data	Lot	16	Block	5601				
Assign a number for ea Of or 3g. Use one shee				how test	data and calcular	tions on Form	3b, 3c, 3d, 3	ве,	
l. Summary of Date - E	Enter date for eac	ch test replicate o	on a separa	te line.					
est Type of Test	Replic (number)	(letter)	(inches)	Resul				_	
* SELECT FILL TO	BE TESTED F	OR PERMEABI	LITY = 6	-20 IN/	HR WHEN PR	OPERLY COI	MPACTED	IN-PLACE	*
TUBE	1	A/B	TP1	(68")	K2			- 1	
TUBE	1	A/B		(116")	K3				
TUBE	1	A/B		(83")	K2			_	90.00
TUBE		· A /B	TP2	(121*)	K4			_	36.01
								-	
For tube permeamete umber. For percolation fer second filling, negon Design Permeability/overage of Test Replication	on test report in native otherwise. Percolation Rate	ninutes per inch.	. For basin umber <i>6–</i> 2	flooding t	est report result R (SELECT FIL	as positive if I			
umber. For percolation fter second filling, negree. Design Permeability/	on test report in n ative otherwise. Percolation Rate tes	ninutes per inch.	. For basin umber <i>6–</i> 2	flooding t 20 IN/H gle Replic	est report result R (SELECT FIL	as positive if I			
umber. For percolation fter second filling, negon Design Permeability/ Everage of Test Replicates for Replicates	on test report in n ative otherwise. Percolation Rate tes	ninutes per inch.	. For basin umber <i>6—,</i> Sin	flooding t 20 IN/H gle Replic	est report result R (SELECT FIL	as positive if I			
umber. For percolation fter second filling, negrows. Design Permeability/ overage of Test Replication lowest of Replicates. Type of Limiting Zono.	on test report in native otherwise. Percolation Ratestes e Identified items included):	ninutes per inch.	. For basin umber 6–. Sin Test Numl	flooding t 20 IN/H gle Replic	est report result R (SELECT FIL	as positive if I			
umber. For percolation fter second filling, negon Design Permeability/ Everage of Test Replicates for Replicates	on test report in native otherwise. Percolation Rate tes e Identified items included): meter Test Data lityClass Rating Test Data - Numbe	- Number of Sherest Data - Number of Sheets	. For basin umber 6 Sin Test Num	flooding t	est report result R (SELECT FIL	as positive if I			
umber. For percolation fter second filling, negrous permeability/overage of Test Replication for the first second filling zone which is the first second filling zone. Attachments (Check form 3b - Tube Permeabiorm 3c - Soil Permeabiorm 3d - Percolation Total fermeabiorm 3d - Percolation Total fermeability fer	on test report in native otherwise. Percolation Ratestes e Identified items included): meter Test Data- lity Class Rating Test Data - Number est Data - Number est Data - Number	- Number of She est Data - Number of Sheets of Sheets r of Sheets	. For basin umber 6 Sin Test Num	flooding t	est report result R (SELECT FIL	as positive if I			
umber. For percolation fter second filling, negrous permeability/overage of Test Replication for the first Replication of Replicates. Type of Limiting Zono Attachments (Check form 3b - Tube Permeabing Test Percolation Toom 3d - Percolation Test Test Percorn 3d - Percolation Test Test Test Test Test Test Test Test	on test report in native otherwise. (Percolation Rate: tes e Identified items included): meter Test Data- lity Class Rating Test Data - Number est Data - Number	- Number of She est Data - Number of Sheets of Sheets r of Sheets nber of Sheets	Test Num ets 8 ber of Shee	flooding to the flooding to th	est report result R (SELECT FIL ate	chments there	to) is true a	completely	within 24 hours
umber. For percolation fter second filling, negrother second filling Percolation Toler and Second filling Testing Second filling Se	on test report in native otherwise. (Percolation Rate: tes e Identified items included): meter Test Data- ility Class Rating Test Data - Number st Data - Nu	- Number of She est Data - Number of Sheets of Sheets r of Sheets nber of Sheets	Test Num ets 8 ber of Shee	flooding to the flooding to th	est report result R (SELECT FIL ate	chments there	to) is true a	completely	within 24 hours

MUNICIPALITY	MONROE						ě
Form 3b. Tube Perme	ameter Test Data						
1. Test Number	1	Replicate Letter	A	Date Collecte	ad 3/12/2020]	
2. Material Tested]Fill	Х. Те	st in Native Soi	- Indicate Depth	TP1 (6	38")
3. Type of Sample		Undisturbed		Х	Disturbed		
4. Sample Dimensions	Inside Radius of Samp Length of Sample, in in		1.905		9	*	4
Sample Weight (Wt. Sample Volume (L.x.	nination (Disturbed Sam Tube Containing Sampl 2.54 cm/inch x 3.14R²), e Wt./Sample Volume), g	e - Wt. Empty Tube cc	150.89 86.83 1.74			4	37
6. Standpipe Used: Indicate internal Rad	x No dius, cm	Yes					
At the Beginning of E At the End of Each T	el above Rim of Test Ba Each Test Interval, H1 est Interval, H2 Drop (Add additional lin		3.0		· ,	· •	
Time, Start of Test Interval, T1 (min.sec)		Length of Test Interval, T, (min)				*	
0.00	57.24	57.41			4	4	
0.00	57.30	57.49				2.	,
0.00	57.57	57.95			,		
	-		٠٠ لري				300 gr
			and the same				
9. Calculation of Perme	eability:		, , , , , , , , , , , , , , , , , , ,	× "	A 5 5	,	
K. (in/hr) = 60 min/hr	x r ² /R ² x L(in)/T(min) x lr	n (H1/H2)			8 (2) S		8 0
k= 60 min/hr	x x 3/		x ln(3/2)				
k=	1.26		¥				
		8.				8 9	2
10. Defects in the Sami	ole (Check appropriate i	tems).	<u>4</u>	÷		8	
	CracksWorm Cha		nole			25	· 1
		,	ileis	•	, we		
	tactLarge Grave			×,			
	_SmeeringCompa	N	Č.		·.		
OtherSpecif	fy			1			8
						4 , 4	
11. I hereby certify that	the information furnished	ed on form 3b of this ap	plication is true a	nd accurate. I	am aware :		1.84
	is a violation of the Wat		9 92		· ·		
	es as prescribed in N.J.					o.	
	praceinou iii 14.0.1	7/	- V:		(e) (c)		
Cianatura of Oita Caratur	· ·	1/2		D-4-	F14 4/0000		
Signature of Site Evalua	IUI -	- I-1-A-		Date	5/14/2020		· e
		1 1 //		160			٠.
Signature of Profession	al Engineer			License #	GE28106	•	

	MUNICIPALITY	MONROE								
	Form 3b. Tube Perm	eameter Test Data								
	1. Test Number	1	Replica	ite Letter	В	Date Collec	ted 3/12/2020			
	2. Material Tested		Fill		X Tes	st in Native So	il - Indicate Dep	th	ΓΡ1 (68")	10
ř	3. Type of Sample		Undisturbed	· · · · · · · · · · · · · · · · · · ·		Х	Disturbed			
	4. Sample Dimension	s Inside Radius of San	nple Tube R in o	em 🎏	1.905	•				
		Length of Sample, in		[F. 17	3			* 5	,	
	5. Bulk Density Determine	mination (Disturbed Sa	mples Only):						€2 •2	
	Sample Weight (Wt.	Tube Containing Sam	ple - Wt. Empty 1		151.68			•		
	Sample Volume (L. X	2.54 cm/inch x 3.14R ² e Wt./Sample Volume)), CC	ļ	86.83		** E			
	built beliefly (bumpi	e vil./Gample volume)	, grams/cc	<u> </u>	1.75					
		. 25				e.				
	6. Standpipe Used:	xNo	Yes		·				2	
	Indicate internal Ra	dius, cm				re:			e x	
ý.	7 Height of water Lev	el above Rim of Test B	lacin in Inches:	9.50	·					
	At the Beginning of I	Each Test Interval, H1	asin'in inches.	_	3.0	٠				
	At the End of Each		a 5		2.0	enty as	e.			í
	0 D-4 - 04/4 - 1 - 1		i i		4		*			×
	B. Rate of Vvater Leve	l Drop (Add additional	lines if needed):	77%	3	3 1				÷
	Time, Start of Test	Time, Start of Test	Length of Test	Interval	4. · · · · · · · · · · · · · · · · · · ·					
	Interval, T1	Interval, T1	T, (min)							
	(min.sec)	(min.sec)						3	7	
1	0.00	66.10	66.16	•	pre i	90	,			
-	0.00	66.33	66.55			*				
ŀ	0.00	66.36	66.60		- 4					
t					4					
_		· .		ا	1			•	12 4	9
. (. Calculation of Perme	eability:	g % 2		si:		•		4	ě
	i			Te t	T en			e		
1	K_{i} (in/hr) = 60 min/hr	$x r^2/R^2 \times L(in)/T(min) x$	în (H1/H2)		. ##					
	k= 60 min/hr	x x 3/		∄x In(3	3/2)					
L		1.10		27	W					
							¥ ×	*		
1	Defects in the Sample	ple (Check appropriate	items):	į.					e	
_	xNoneC	CracksWorm Ch	annelsRo	ot Channels			*			
_	Soil/Tube Cor	ntactLarge Grave	elLarge R	oots		140				
-	Dry Soil	_SmeeringComp	pactation	*						
	OtherSpecif	fy								
			40		4 4 8					
1	1. I hereby certify that	the information furnish	ed on form 3b of	this applicat	ion is true and	d accurate. La	am aware	to e		
th	at falsification of data	is a violation of the Wa	iter and Pollution	Control Act	(N.J.S.A. 58:1	0A-1 et sen)				i
aı	nd is subject to penalti	es as prescribed in N.J	A.C. 7:14.	***	,			*		
			//	, i,		*			* *	
S	gnature of Site Evalua	itor	1/1	1 3		Date	5/14/2020		0: E	
		· · · · · · · · · · · · · · · · · · ·	11	//	#. · · · · ·	Date	5/ P4/2020	-		
Si	gnature of Professions	al Engineer		/ -)		License #	GE29406	t (s		
i,	3		- /	—	1 , 1	-100H3C #	GE28106	-		

WONICIPALITY	MONROE		'- Y _k				*
Form 3b. Tube Perm	eameter Test Data			#. E	,		
1. Test Number	1	Replicate L	etier A	Date Collect	ed 3/12/2020		
2. Material Tested]Fill	X	Test in Native So	il - Indicate Dept	h TP1 (116")
3. Type of Sample		Undisturbed		Х	Disturbed		
4. Sample Dimension	s Inside Radius of Sam Length of Sample, in		1.905	is S	p g		
Sample Weight (Wt. Sample Volume (L x	nination (Disturbed San Tube Containing Samp 2.54 cm/inch x 3.14R²), e Wt./Sample Volume),	le - Wt. Empty Tube	149.07 86.83 1.72			100	
Standpipe Used: Indicate internal Ra	x No	Yes			ž.	a	
7. Height of water Lev At the Beginning of I At the End of Each	el above Rim of Test Ba Each Test Interval, H1 Fest Interval, H2	asin in inches:	3.0 2.0			·÷	ii.
8. Rate of Water Leve	Drop (Add additional li	nes if needed):					
Time, Start of Test Interval, T1 (min.sec)	Time, Start of Test Interval, T1 (min.sec)	Length of Test Inter T, (min)	val,	*			
0.00	15.33	15.54	7	ž.			
0.00	15.45	15.75					
0.00	15.57	15.95					
2							
				* 2			300
	x r²/R² x L(in)/T(min) x l	n (H1/H2)					
k≈ 60 min/hr	x x 3/	15.95	x ln(3/2)	a V			
k=	4.58	~ .	j. 4			e e	
xNoneC	ole (Check appropriate i	nnelsRoot Cl					
	tactLarge Grave		* ***		• "		
	SmeeringComp	actation	· ·	9.		18.5	5 * 0
Other—Specif	у	· · · · · · · · · · · · · · · · · · ·	- A		160		
11. I hereby certify that	the information furnished	ed on form 3b of this	application is true	and accurate. I	am aware	*	(
nat falsification of data	is a violation of the Wat	er and Pollution Cor	itrol Act (N.J.S.A.	58:10A-1 et seq)			
and is subject to penalti	es as prescribed in N.J.	A.C. 7:148.					
i ĝi lit		//	5. 气管				
Signature of Site Evalua	itor _		- 1. 2	Date	5/14/2020		
Signature of Profession	al Engineer	· '/		License #	GE28106	`.	

MUNICIPALITY	MONROE]	i.				7
Form 3b. Tube Perm	eameter Test Data			. *			
1. Test Number	11	Replicate Lette	er B	Date Collecte	ed 3/12/2020		
2. Material Tested]Fill	ХТ	est in Native Soil	- Indicate Dept	h TP1 (116	3")
3. Type of Sample		Undisturbed	N	Х	Disturbed		W.
4. Sample Dimension	s Inside Radius of Samp Length of Sample, in i	ole Tube, R, in cm	1.905			*	
*· ·	mination (Disturbed Sam				- i		
Sample Weight (Wt. Sample Volume (L x	Tube Containing Sample 2.54 cm/inch x 3.14R²), e Wt./Sample Volume), g	e - Wt. Empty Tube	148.56 86.83 1.71	*			
·							*
Standpipe Used: Indicate internal Ra	x No dius, cm	Yes			∞ x ⁷,	5	e:
7. Height of water Lev At the Beginning of I At the End of Each 1	el above Rim of Test Ba Each Test Interval, H1 Fest Interval, H2	sin in inches:	3.0		4 12		ίλ ·
8. Rate of Water Leve	Drop (Add additional lin	es if needed):			20 20 - 10		31 74,
Time, Start of Test Interval, T1 (min.sec)	Time, Start of Test Interval, T1 (min.sec)	Length of Test Interval T, (min)				r, w w	
0.00	19.02	19.04	1	,			*
0.00	19.29	19.48			*	*	
0.00	19.53	19.88					
					i		
		•	·			5 .	ver .
9. Calculation of Perme	eability:				1		
K, (in/hr) = 60 min/hr	$x r^2/R^2 x L(in)/T(min) x lr$	(H1/H2)	array in the same of the same	2.0	8	2	e th
k= 60 min/hr	x x 3/		x ln(3/2)	* [∞]			£
	3.67						
10. Defects in Hea O		4.0			:		
	ole (Check appropriate it					8 8	
Soil/Tube Con	racksWorm Char tactLarge Gravel	neisRoot Chan	ņeis			* *	?
Dry Soil	Smooring Common	Large Roots	m				
OtherSpecif	SmeeringCompa	ictation			3		
Otheropech	у		e per de	3		a E	*
11 I hereby certify that	the information fundable	d 6 Ob6-11					147
hat falsification of data	the information furnishe	o on form 3b of this ap	plication is true a	ind accurate. I ar	n aware		***
and is subject to negalti	is a violation of the Wate es as prescribed in N.J.A	A C 7:148	1 MCL (IV.J.S.M. 58	o. TUA-1 et seq)		10	,
h despess to portain	-c so presented in N.J.A	172			~	3-	(4)
Signature of Site Evalua	tor	-D		Date	5/14/2020		
Signature of Professions	al Engineer	11		License #	GE28106		
		/ [. 3		

MUNICIPALITY	MONROE		: ppr. : E F ::		*	*
Form 3b. Tube Perme	eameter Test Data	garden ag 's	**			* " ; 5
1. Test Number	1	Replicate Lette	er A	Date Collect	ed 3/12/2020	
2. Material Tested	F		X	est in Native So	I - Indicate Depth	TP2 (83")
3. Type of Sample		Indisturbed	ďΣ	Х	Disturbed	
	Inside Radius of Sample Length of Sample, in inc	hes	1,905			¥
Sample Weight (Wt. Sample Volume (L x	nination (Disturbed Sampl Tube Containing Sample 2.54 cm/inch x 3.14R²), co Wt./Sample Volume), gra	- Wt. Empty Tube	151.53 86.83 4 1.75			
6. Standpipe Used: Indicate internal Rad	x No	Yes			·	8 . 8 .
At the Beginning of E At the End of Each T	el above Rim of Test Basin ach Test Interval, H1 est Interval, H2 Drop (Add additional lines	Pierri d	3.0			
Time, Start of Test Interval, T1 (min.sec)	Time, Start of Test Le Interval, T1 (min.sec)	ength of Test Interva T, (min)		<i>}</i>	. "	
0.00	43.08	43.13]:	•		
0.00	43.24 43.45	43.39 43.75		*	,	± 6 8 8
0.00	40.40	43.73				
Calculation of Perme	ability:			ý o		ij
K (in/hr) = 60 min/hr	x r²/R² x L(in)/T(min) x ln (Udainos	· · · · · · · · · · · · · · · · · · ·			*
k= 60 min/hr	X x 3/	43.75	x ln(3/2)			
	1.67		<u> </u>	ψ.		* **
10. Defects in the Samo	le (Check appropriate iter	ns):				• 5 .
x None C	racksWorm Chann	els Root Char	nels			2.00
Soil/Tube Con		Large Roots	7			
Dry Soil	SmeeringCompact					
OtherSpecifi						
					÷	
11. I hereby certify that	the information furnished	on form 3b of this ap	plication is true	and accurate. I a	m aware	. 3
hat falsification of data i	s a violation of the Water	and Pollution Contro	I Act (N.J.S.A. 5	8:10A-1 et seq)	1	
	es as prescribed in N.J.A.				en ø	(A)
Signature of Site Evalua	tor	1/1		Date	5/14/2020	4 4
Signature of Professiona	l Engineer	1 Up	1	License #	GE28106	9 g g g g g g g g g g g g g g g g g g g
						<i>a</i>

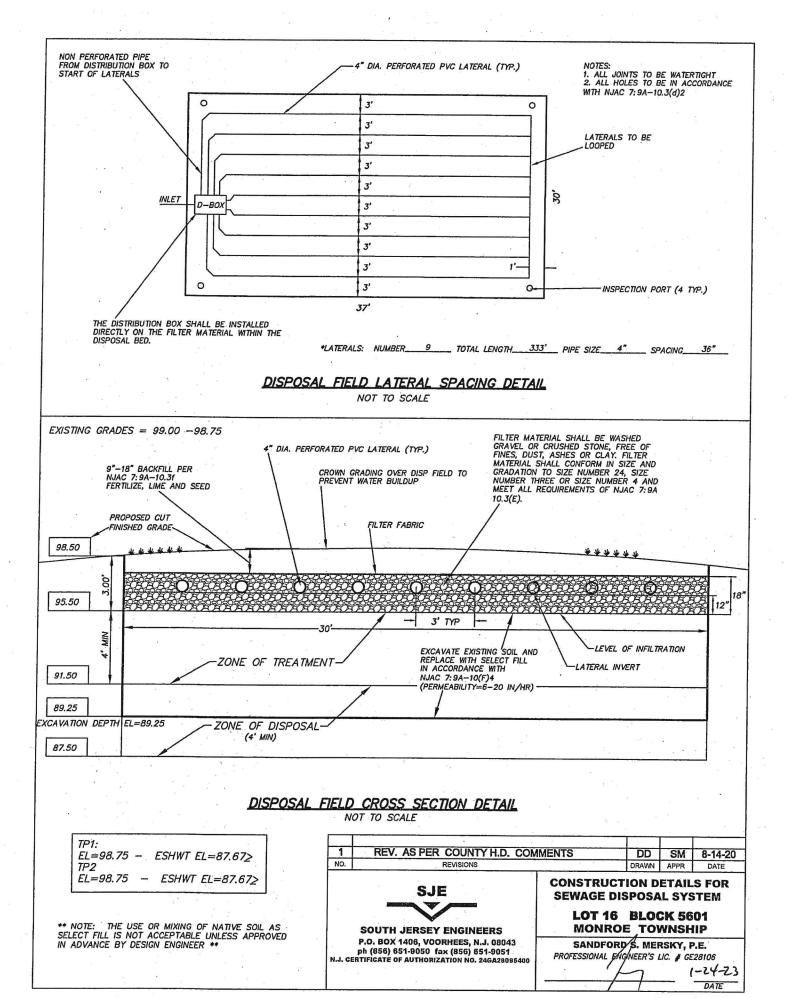
MUNICIPALITY MONROE
Form 3b. Tube Permeameter Test Data
1. Test Number 1 Replicate Letter B Date Collected 3/12/2020
Material Tested Fill X Test in Native Soil - Indicate Depth TP2 (83)
3. Type of Sample Undisturbed X Disturbed
4. Sample Dimensions Inside Radius of Sample Tube, R, in cm Length of Sample, in inches
5. Bulk Density Determination (Disturbed Samples Only): Sample Weight (Wt. Tube Containing Sample - Wt. Empty Tube Sample Volume (L x 2.54 cm/inch x 3.14R²), cc Bulk Density (Sample Wt./Sample Volume), grams/cc 1.70
6. Standpipe Used:x NoYes Indicate internal Radius, cm
7. Height of water Level above Rim of Test Basin in inches: At the Beginning of Each Test Interval, H1 At the End of Each Test Interval, H2 3.0 2.0
8. Rate of Water Level Drop (Add additional lines if needed):
Time, Start of Test Time, Start of Test Length of Test Interval, Interval, T1 Interval, T1 T, (min) (min.sec) (min.sec)
0.00 51.38 51.63 0.00 51.45 51.74
0.00 52.08 52.13
9. Calculation of Permeability: K, (in/hr) = 60 min/hr x r²/R² x L(in)/T(min) x ln (H1/H2)
k= 60 min/hr x/ x 3/ 52.13 x ln(3/2)
1.40
10. Defects in the Sample (Check appropriate items): xiNoneCracksWorm ChannelsRoot Channels
Soil/Tube ContactLarge GravelLarge Roots
Dry SoilSmeeringCompactation OtherSpecify
11. I hereby certify that the information furnished on form 3b of this application is true and accurate. I am aware
that falsification of data is a violation of the Water and Pollution Control Act (N.J.S.A. 58:10A-1 et seq)
and is subject to penalties as prescribed in N.J.A.C. 7:14-8.
Signature of Site Evolution
Signature of Site Evaluator Date 5/14/2020
Signature of Professional Engineer License # GE28106
Signature of Professional Engineer License # GE28106

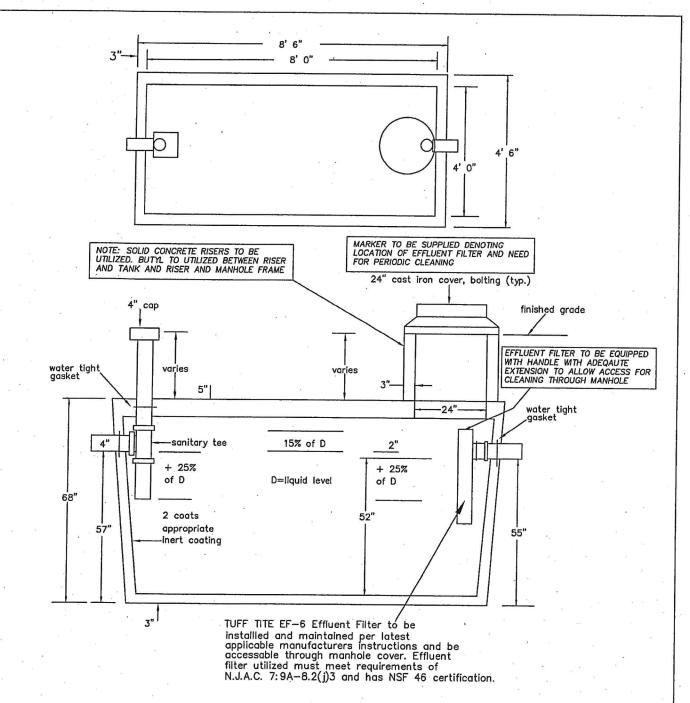
MUNICIPALITY	MONROE		. »i				
Form 3b Tube Perme	eameter Test Data						
1. Test Number		7 Deslicate Latter			: 		
		Replicate Letter	A	Date Collect	ed 3/12/2020	י י	
2. Material Tested]Fill	Х Т	est in Native So	il - Indicate Dep	oth TP2 (12	1")
3. Type of Sample		Undisturbed		Х	Disturbed		
5. Bulk Density Detern Sample Weight (Wt. Sample Volume (L x	s Inside Radius of Sam Length of Sample, in nination (Disturbed San Tube Containing Samp 2.54 cm/inch x 3.14R²)	inches inples Only): ile - Wt. Empty Tube	1.905 / 3 / 145.63 86.83				
Bulk Density (Sample	Wt./Sample Volume),	grams/cc	1.68				
Standpipe Used: Indicate internal Rad	x No	Yes		r		B	
At the Beginning of E At the End of Each T	el above Rim of Test Ba ach Test Interval, H1 est Interval, H2 Drop (Add additional li		3.0 2.0				red
Time, Start of Test Interval, T1 (min.sec)	Time, Start of Test Interval, T1 (min.sec)	Length of Test Interval, T, (min)		· K	5	×	
0.00	6.39	6.64					
0.00	6.48	6.79	• • • • • •				53
0.00	7.05	7.08	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
				is .			
9. Calculation of Perma K, (in/hr) = 60 min/hr k= 60 min/hr	ability: x r²/R² x L(in)/T(min) x I x x 3/		ln(3/2)		,		2 500 2
	10.30	7.00	11(3/2)				
10. Defects in the Samp	ele (Check approprieto	tomalı					
		nnelsRoot Chann	ale				
	tactLarge Grave		GIO		Vites		
	SmeeringComp						3
OtherSpecifi							
hat falsification of data i	s a violation of the Wat	ed on form 3b of this app er and Pollution Control	lication is true a	ind accurate. I a	ım aware	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	· '12
and is subject to penaltie	es as prescribed in N.J.	A.C. 7:14-8.	1		,		
Signature of Site Evalua	tor	1	4 2	Date	5/14/2020	* 3.	
Signature of Professiona	I Engineer	1				•	
ngiliatare of Fibressiona				License #	GE28106	- %	:

MUNICIPALITY	MONROE					
Form 3b. Tube Perme	ameter Test Data					
1. Test Number	11	Replicate Let	tter B	Date Collect	ed 3/12/2020	
2. Material Tested]Fill	XT	est in Native So	il - Indicate Depth	TP2 (121")
3. Type of Sample		Undisturbed	···· ; E	X	Disturbed	
4. Sample Dimensions	Inside Radius of Sam Length of Sample, in i	ole Tube, R, in cm	1.905			
Sample Weight (Wt. Sample Volume (L x 2	ination (Disturbed Sam Fube Containing Samp 2.54 cm/inch x 3.14R²), Wt./Sample Volume),	le - Wt. Empty Tube	148.14 86.83 1.71			a,
ř			er er			
Standpipe Used: Indicate Internal Rad	x No lius, cm	Yes		e d'		
7. Height of water Leve At the Beginning of E At the End of Each To 8. Rate of Water Level	ach Test Interval, H1 est Interval, H2		3.0 2.0			
Time, Start of Test Interval, T1 (min.sec)	¥	Length of Test Interv T, (min)	al,			
0.00	6.19	6.31	1			1.44
0.00	6.22 6.27	6.36 6.44	-1:			\$ 19 m
					3	* .
			J		n	
Calculation of Permea	ability:	r * a * y				
K, $(in/hr) = 60 \text{ min/hr } x$	$r^2/R^2 \times L(in)/T(min) \times li$	(H1/H2)	1			
k= 60 min/hr	x x 3/	6.44	x in(3/2)	×		
k= 1	1.33	600 600			? ·	
10. Defects in the Samp	le (Check appropriate i	tems):				
	acksWorm Cha		innels			٧.,
Soil/Tube Cont	actLarge Gravel					
	SmeeringCompa	actation				
OtherSpecify						
A 1 hh		1.4	and the same	*		
1. I hereby certify that t	ne information furnishe	d on form 3b of this a	pplication is true a	nd accurate. I a	ım aware	
hat falsification of data is and is subject to penaltie	s as proposibled in N	er and Pollution Contr	ol Act (N.J.S.A. 58	:10A-1 et seq)		*
und is subject to benattle	s as prescribed in N.J./	4.0. 7:14-8.	N			
ignature of Site Evaluat	or	M		Date	5/14/2020	
ignature of Professional	Engineer	1//		License #	GE28106	. * · · · · · · · · · · · · · · · · · ·
		1 (pote of			

APPLICATION SHALL BE SUBMITTED ELECTRONICALLY TO CME FOR REVIEW BY DESIGN ENGINEER PAYMENT SHALL BE SUBMITTED TO GCHD (CHECK OR MONEY ORDER ONLY)
ONSITE INSPECTIONS MUST BE SCHEDULED VIA EMAIL: GCHD@CMEUSA1.COM

MUNICIPALITY MONROE TOWNSHIP
Form 4. General Design Data
1. Volume of Sanitary Sewage, gallons per day. 680 GAL/DAY (200 gallons for first bedroom, 150 each additional)
X Residential: No. of Dwelling Units
X Commercial/Industrial - Indicate type of establishment and show method of calculation.
OFFICE SPACE IN POLE BARN IS 240 SQUARE FOOT (WITH 1 EMPLOYEE)
2. Alterations of Repairs $ 240 \text{ SF } X 0.125 = 30 \text{ GAL/DAY} + 650 \text{ GAL/DAY} = 680 \text{ GAL/DAY} $
Reason for Alteration or Repair (Check appropriate categories): Expansion or Change in Use Upgrade Existing Facilities
X Correct Malfunctioning SystemOther Specify
b) X Describe Nature of Alteration or Repairs: NEW ISDS PER NJAC 7:9A
3. System Components: NEW 1000 GAL SEPTIC TANKS #1 & #2
or officer components.
a) Grease Trap Capacity, gals Show Calculation Used: b) Septic Tank Capacities, gals: First (Single) Compartment gal
Second Compartment gal Third Compartment gal C Effluent Distribution
rivernod:A Gravity Flow Gravity Dosing Pressure Dosing
Dosing Device:PumpSiphon
d) Dosing Tank Capacities, gals: Total Capacity Dose Volume
Reserve Capacity
e) Laterals: Number9Total Length333' Pipe Size4" Spacing36"
f) Connecting Pipe: Size 4"Length 35'
g) Manifold: Size 'D' BOX Length
h) Disposal Field: Type of Installation SRB
Design Permeability (Percolation Rate) 6–20 IN/HR (SELECT FILL) Trenches: WidthTotal Length
Bed: Area
bea. Area
Seepage Pits: Design Percolation RateNumber of Pits
Total Percolating Area Provided
4. Attachments (Check items included):
X General Plan of System Showing Location of All System Components
XCross-Sections of Each System Component Including Grease Trap, Septic X MUA Waiver
XTank, Dosing Tank, Disposal Field, Seepage Pits and InterceptorBuoyancy Calculations
DrainsCommercial Flow Calculations
Pump Performance CurveNJDEP Approvals
Other Specify
5. I hereby certify that the information furnished on Form 4 of this
application (and attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act
(N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in
NJ.A.C. 7:14-8.
Signature of Discognismal Fusions (1-211-2-2)
Signature of Professional Engineer Date 1-24-23
PROFESSIONAL /ENGINEER'S LIC. # GE28106
REV. DATE 8-14-20 - REV. AS PER COUNTY H.D. COMMENTS



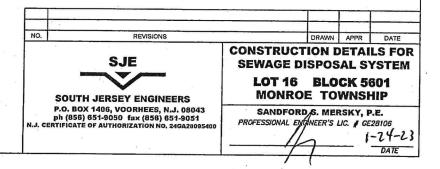


As Manufactured by Mershon Concrete — Bordentown, NJ or approved equal (1—800—MERSHON)

1000 GAL SEPTIC TANKS #1 & #2 W/ EFFLUENT FILTER (NTS)

Notes:

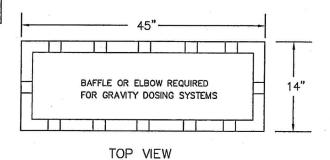
- 1. Tank is 4000 psi concrete steel reinforced
- 2. Concrete conforms to ACI 318-16-4.5.1 and ACI 318-16-4.5.2
- Tank complies with all requirements of NJDEP Chapter 199 7:9A-8.2
- Tank to be tested for water tightness in accordance with N.J.A.C. 7:9A-8.2(m).
- Tank access opening labeling to be in accordance with N.J.A.C. 7:9A-8.2(I2)

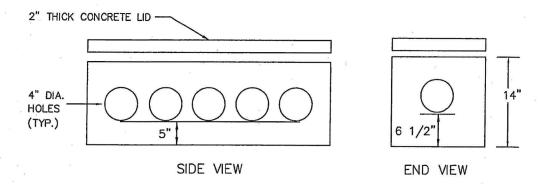


THE DISTRIBUTION BOX SHALL BE SET ON A LAYER OF GRAVEL OR A CONCRETE FOOTING EXTENDING DOWNWARD BELOW THE MAXIMUM EXPECTED DEPTH OF FROST PENETRATION. WHERE GRAVEL IS USED, THE GRAVEL SHALL EXTEND A MINIMUM OF SIX INCES BEYOND THE SIDES OF THE DISTRIBUTION BOX.

- 1. DISTRIBUTION BOX TO BE CONSTRUCTED IN ACCORDANCE WITH N.J.A.C. 7:9A-9.4(a).
- 2. ACCESS OPENINGS MUST BE ADEQUATE IN SIZE AND LOCATED TO FACILITATE REMOVAL OF ACCUMULATED SOLIDS AND INSPECTION OF THE INLET AND ALL OUTLETS.
- 3. ALL ACCESS OPENINGS SHALL BE EXTENDED TO WITHIN 12 TO 18 INCHES OF THE FINISHED GRADE SURFACE.
- 4. ACCESS OPENINGS SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO PREVENT THE ENTRANCE OF SURFACE WATER.

NOTE: INSTALLER TO INSURE DISTRIBUTION BOX IS LEVEL AND THAT ALL OUTLET PIPES ARE SET AT THE SAME ELEVATION. SPEED LEVELERS OR ALTERNATE METHOD TO BE USED TO INSURE THAT ALL OUTLET PIPES ARE LEVEL.





1 INLET, 11 OUTLET W/GASKETS

Notes:

1. All dimensions are approximated.

2. 4000 PSI Concrete

3. Reinforcing - 1.6 x 1.6 WWF.

Dimensions

Length - 45"

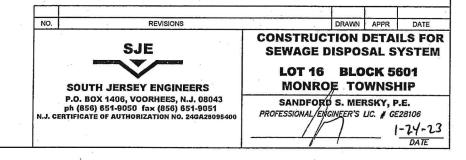
Width - 14"

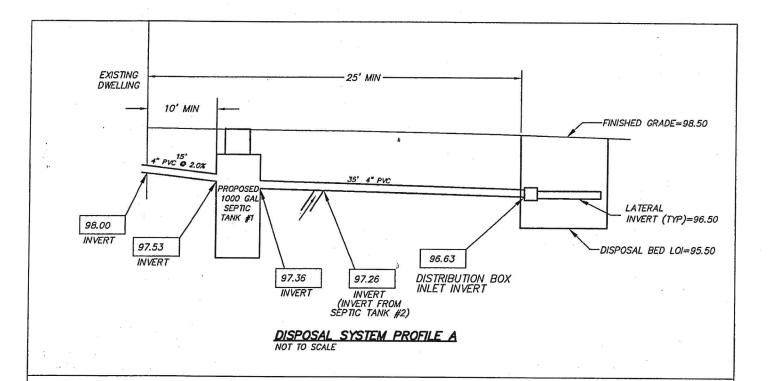
Height - 14"

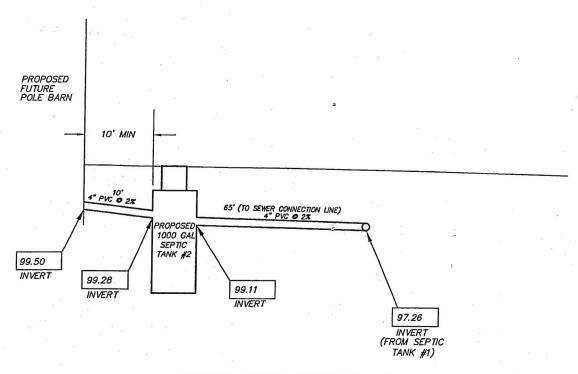
As Manufactured by Mershon Concrete — Bordentown, NJ or approved equal (1-800-MERSHON)

11 HOLE DISTRIBUTION BOX

NOT TO SCALE







DISPOSAL SYSTEM PROFILE B NOT TO SCALE

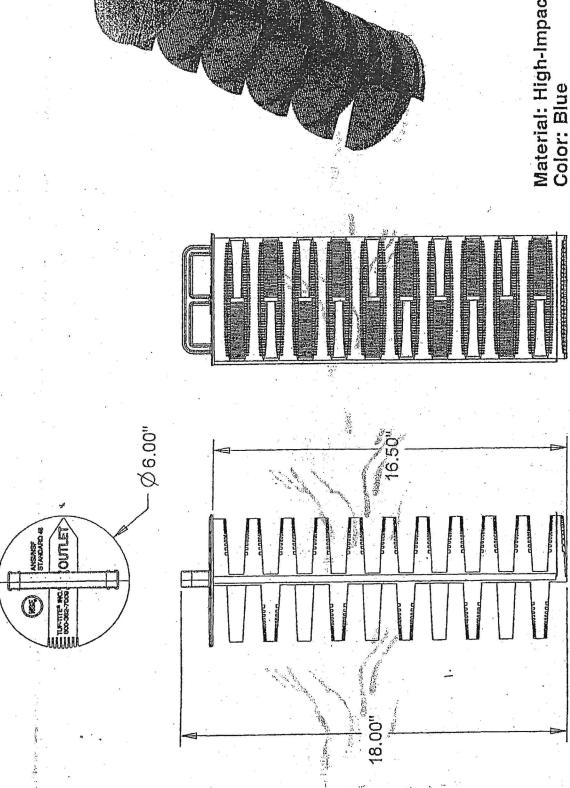
					r	
1 REV. AS PER COUNTY H.D. COMMENTS			DD	SM	3-23-23	
NO.	REVISIONS		DRAWN	APPR	DATE.	
SJE		CONSTRUCTION DETAILS FOR SEWAGE DISPOSAL SYSTEM				
	SOUTH JERSEY ENGINEERS		6 BLO			
P.O. BOX 1406, VOORHEES, N.J. 08043		SANDFORE'S, MERSKY, P.E.				

P.O. BOX 1406, VOORHEES, N.J. 08043 ph (856) 651-9050 fax (856) 651-9051 N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA28095400

PROFESSIONAL BYOMER'S LIC. # GE28106

1-24-23

DATE





PART #: Drainage and Septic Products

TELEPHONE: TOLL FREE: FAX:

847.550.1011 800.382.7009 847.550.8004

6" EFFLUENT FILTER PART NAME:

EF-6

Google Maps 3132 S Black Horse Pike Williamstown, NJ

Map data @2020

IMPORTANT INFORMATION FOR THE SEPTIC SYSTEM END-USER

Your septic system has been designed to provide you with many years of trouble free service. Please take the time to review the following facts and information relative to the use and operation of the system:

- 1. Your system has been designed to accommodate a specific number of bedrooms and occupants. Be sure to contact your county board of health or the design engineer prior to expanding the living area of your home to insure that your system continues to comply with regulations.
- 2. Your county board of health has issued you an operational permit. For all purposes, your individual system is now treated under the law in a similar manner to a municipal sewer system. Fines and penalties may be imposed upon users who have malfunctioning systems.
- Puniping of the system every three (3) years is highly recommended in order to prevent system failure. System inspections should be performed on an as-needed basis.
- 4. The use of acid-based cleaning solutions are not recommended.
- 5. Water conditioners and other similar devices should not be introduced into the system. The system has not been designed for use with garbage disposal systems; and the use of such can lead to premature pumping requirements or system failure.
- 6. Trees or other rooted plants should not be placed in the vicinity of the disposal field, as the roots will eventually destroy the piping network. A grass covering is recommended. Exposure to the sun and wind, while not necessary, will enhance the operation of the system.
- The use of water conservation devices is highly recommended. Excess water flow, faucet drips, leaking toilet components, etc. are cause for system failure.
- 8. Disposal of any toxic wastes into the system is prohibited and can cause ground water pollution. The end effect can be contamination of your well and those of your neighbors. Severe fines can imposed in these cases. Paints, thinners, chemicals, photo developers, etc. are examples of items that can cause ground water pollution.
- 9. All modifications to the system must be approved by your county board of health (and the Pinelands Commission, when applicable).

 Emergency repairs shall be reported immediately.
- 10. A HOMEOWNER'S GUIDE TO SEPTIC SYSTEMS is available from the State of New Jersey, Division of Water Resources. CN031, Trenton, NJ 08625. A similar publication (EB-10) is available from Rutgers University, Cook College, New Brunswick, NJ. Please contact the design engineer should you have any difficulty in obtaining these publications.

DESIGN CRITERIA AND LIMITS OF LIABILITY

The ISDS design is primarily based upon soil profile pits and testing performed in accordance with N.J.A.C. 7:9a, improvements readily identifiable at the surface, inputs and surveys from the applicant and adjacent property owners, and public records (if provided by the applicant). The location of subsurface improvements which are not readily visible from the surface, such as existing wells, ISDS, and underground utilities may be estimated if written records are not available to support an exact location.

Prior to installation, it is the applicant's, installer's and well driller's responsibility to verify that all proposed and existing improvements, wells and ISDS, subsurface or otherwise, are as shown on this plan. If this plan is in error, South Jersey Engineers, L.L.C.'s sole liability shall be to correct or revise the plan as required to the extent allowable by N.J.A.C. 7:9a. South Jersey Engineers, L.L.C. shall not be liable in any way for installations which proceed without this required verification, or systems

which cannot be installed due to unknown or undiscovered subsurface improvements.

Soil conditions may vary from those observed in profile pits and used as a basis for design. In the event that soil conditions observed during installation are not as predicted, South Jersey Engineers, L.L.C.'s soil liability shall be to correct or revise the ISDS plan as required. South Jersey Engineers, L.L.C. shall not be liable for any additional ISDS cost or expense incurred by the applicant as a result of revisions, or any other determinations relative to overall site suitability as a result of varying soil conditions.

Elevations of existing building sewer lines, if applicable, are estimated. Accordingly, it may be determined during installation that pumping is required when not originally specified on ISDS plans, or that pumping can be eliminated when originally specified. In either case, South Jersey Engineers, L.L.C. will revise ISDS plans without additional charge (excepting new construction). However, the cost of county fees and any additional equipment required during installation shall be borne by the applicant.

Soil testing performed for the ISDS design are for ISDS applications only, and shall not be utilized for any other purpose, including but not limited to determination of dwelling clevations. Upon request by the client, additional soil testing will be performed at the proposed dwelling location for an additional fee. The "regional zone of saturation", also known as the "estimated seasonal high water table (ESHWT)", is an estimate of the high ground water level at the test location. However, this is an estimated value and other factors, such as lack of soil mottling, may preclude an accurate reading. Accordingly, South Jersey Engineeris, L.L.C. shall not be held liable in the event that the ESHWT is later determined to be at an elevation higher than that originally estimated:

Soil testing for the ISDS misst be performed by backhoe per N.J.A.C. 7:9a. The backhoe is a large machine and can possibly cause damage to the property above and beyond that caused by the test pit excavations. While South Jersey Engineers, L.L.C. and/or their backhoe subcontractors will call for an underground utility markout it is possible that the markout may not be accurate or that private subsurface utilities may not be located. Also, the applicant is aware that excavations performed by the backhoe may settle over a period of time. Accordingly, South Jersey Engineers, L.L.C. shall not be field liable for damage to the property or any subsurface utilities. The applicant represents that they have the legal right to authorize soil testing performed by backhoe on the property.

South Jersey Engineers, L.L.C. shall not be liable in any way for the performance schedule or quality of the applicant's installer. It shall be the applicant and/or installer's responsibility to contact South Jersey Engineers, L.L.C. prior to installation to discuss specifics of the installation. Unless agreed to otherwise, installation support, inspections and certifications by South Jersey Engineers, L.L.C. are not part of this design and shall be billed to the applicant.

South Jersey Eugineers, L.L.C. has designed this ISDS to either be (1) in conformance with N.J.A.C. 7:9a, or (2) to be in as close conformance as conditions will allow. ISDS life and performance its primarily, dependent upon proper usage and maintenance by the applicant, which cannot be controlled by South Jersey Engineers, L.L.C.. Also, soil conditions may vary from those tested or observed, and may even be inadequate in the case of existing buildings.

Additional Notes - General

All construction practices and procedures are to be in compliance with N.J.A.C. 79a(Effective April 2, 2012).

The installer shall contact the design engineer as prescribed in N.J.A.C. 7.9a or whenever consultation, clarification or inspections are required.

The installer shall contact the engineer prior to excavation to discuss specific requirements relative to excavation, placement and certification of fill, etc.

The installer shall immediately notify the design engineer should conditions other than those noted be encountered during installation.

Drainage from basement floors, footings, roofs, gutters,

sumps and water conditioners shall not enter the disposal system.

Garbage disposal units shall not be used or installed in the premises.

The installer shall verify that finished elevations of the premises and sewerage lines leaving the premises will provide proper flow to the system.

The installer shall verify that the proposed or existing dwelling will not exceed the design capacity of the system. When possible, the installer shall recommend the use of water saving fixtures to the homeowner.

The installer shall verify the location of all dwellings, septic systems and wells within a 150 foot radius of the installation. Any discrepancies from the plans shall be reported to the design engineer and the administrative authority immediately. Special attention shall be paid to new construction which may have occurred subsequent to the design.

The installer shall insure that the homeowner is aware of the location of all system components.

The installer shall instruct the end-user on the operation, maintenance, inspection and permit renewal requirements of the sewage disposal system. Most system failures are due to improper maintenance by the user.

Disposal Fields

The installer shall verify that soil conditions are as described on the soil logs. The installer shall perform a percolation test at the bottom of any excavated area to insure proper drainage.

The flow of surface water over the disposal field shall be minimized.

Select fill utilized in the zone of treatment shall meet the requirements of N.J.A.C. 7:9a-10.1(f)4 and Pinelands Commission standards when applicable; Fill utilized in the zone of disposal shall meet the requirements of N.J.A.C. 7:9a-10.1(f)5. All fill, and the compaction thereof, must be tested and certified by an engineer. Fill shall be installed and compacted per N.J.A.C. 7:9a-10.4(f)3, except that fill shall be compacted by hand only and not by the use of heavy vehicles.

Excavations and fill material shall not be exposed to rain, heavy winds or other extreme conditions. Excavations that have been exposed to rain may have smeared surfaces which must be raked and/or roughened by hand prior to installation of fill which has been exposed to rain or wind may lose uniformity of silt and clay content, and must be thoroughly mixed and retested prior to installation.

Inspection ports shall be provided near the end of each lateral per N.J.A.C., 7:9a-9.5(a)6 in disposal field corners. Check with local authority for specific requirements.

South Jersey Engineers LLC P.O. Box 1406 Voorhees, NJ 08043 856-651-9050 – Fax 856-651-9051 www.septics.com

FORM E-D EXEMPT

Monroe Municipal Utilities Authority 1452 Glassboro Road Williamstown, NJ 08094 Telephone No.: 856-226-3628 Fax No.: 856-243-2359

Email: info@monroemuanj.com

APPROVAL OF EXEMPTION TO CONNECT INTO PUBLIC WATER AND SEWER WHERE SERVICE IS NOT AVAILABLE TO SITE.

WHERE SERVICE	CE IS NOT AVAILABL	E IU SIIE.	
Please Circle: RESIDENTIAL	COMMERCIAL	INDUS	TRIAL
Please Select One:WATER ONLY	sewer only	B0	OTH WATER & SEWER
DATE: 21723			
APPLICANT: Sarah Derreca	,		
Address: PO Box 140(0			
City, State, Zip: Varhees NJ.	08043		
Telephone: 8610-1061-9060	Fax:		
Email: Sarah @ Septics. Com			
PROJECT NAME (if other than applicant(s)):	,		
Address: 3132 Black Horse	Piko		
Tax Map Block No.: 5601	Lot No.:_	16	
The Applicant has made a request for water and/or s determined that the water and/or sewer service is no	ewer service. The Autho ot available to the site.	rity has reviewe	d the request and has
1. Therefore, the Authority has no objection to the system providing that all necessary opprovals. Output Description:	ne installation of either an are granted by the approp	on-site disposal oriate Township,	system or potable water County and State Agencies.
The Applicant agrees that when water and/or will connect to the public water and/or sewer.	sewer facilities become a system.	vailable, the app	licant or their successor in title
Saroh Perreca	Saal	APPLICANTS SIG	2/17/23_
PRINT NAME	J.		roe Municipal Utilities Authority
	/	וסוענ	noe wamapar o antico Astronty
	Free	le	·
		ALITHORIZ	ED SIGNATURE

