

Application For An On-Site Sewage System Permit

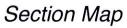
	1 OF 17				
GENERAL APPLICATION INFORMATION					
PROPERTY TAX ACCOUNT NUMBER: 2705090010	4200 LOT #: NA				
🖾 New 🗋 Renewal 🗖 Redesign 🗖 Alteration	Revision Repair Waiver Request Submitted				
Applicant Name: Craig Bunney					
Mailing Address: 2828 Baker Ave	City: Everett State: WA Zip: 98201				
Applicant Phone: 425-530-7373	Applicant Email: craigbunney@gmail.com				
Installation Address: 16912 51st Ave. SE	Installation City: Bothell				
Water Supply: Individual Well X Public N	lame				
SEWAGE DISPOSAL SYS	STEM DESIGN INFORMATION				
Type of Building:	Commercial Other <u>ADU</u> # of Bedrooms <u>$3+2$</u>				
Pretreatment Type: SF ATU PBF N	I/A 🛛 Other				
Dispersal Type: 🔲 Gravity 🔽 LPD 🔲 SSD 🗌 M	ound 🛛 SLB 🔲 Other				
	(gallons/day) Design Flow: <u>600</u> (gallons/day)				
Application Rate: <u>.8</u> (gal/sq ft/day) Absorption Area:	$\frac{750}{1000+}$ (sq ft) Installation Depth: <u>12[*]</u> (inches)				
Septic Tank Size: <u>+1000</u> (gallons) Pump Chamber Siz	e: <u>1750</u> (gallons) Date Soils Logged: <u>03.27.2019</u>				
Required Cover Soil: Volume: <u>36</u> (cubic yard	s)				
DESIGNER	INFORMATION De luga				
Designer Name (Printed): David Mitchell	Designer Signature:				
Address: 19712 E. Conway Hill Ln. Mount Vernon Washington 98274	License Number: 5100137				
Email: david@mitchellseptic.com	Phone: 360 421-3600				
Fee Simple Owner, Contract Purchaser or Owner's Authorized Agent's Name (Printed):	Fee Simple Owner, Contract Purchaser or Owner's Authorized Agent's Signature:				
David Mitchell Designer Comments:	() Miner				
New 3 bedroom SFR + connection with existing 2 bedroom ADU					
HEALTH DISTRICT USE ONLY					
APPLICATION APPROVED Sanitarian	Date 07/22/2019				
Comments/Conditions: Prior to clearance approval, well site application with two connection documentation must be submitted. Please refer to enclosed attachment.					
APPLICATION DISAPPROVED Sanitarian	Date				
	022118jg				

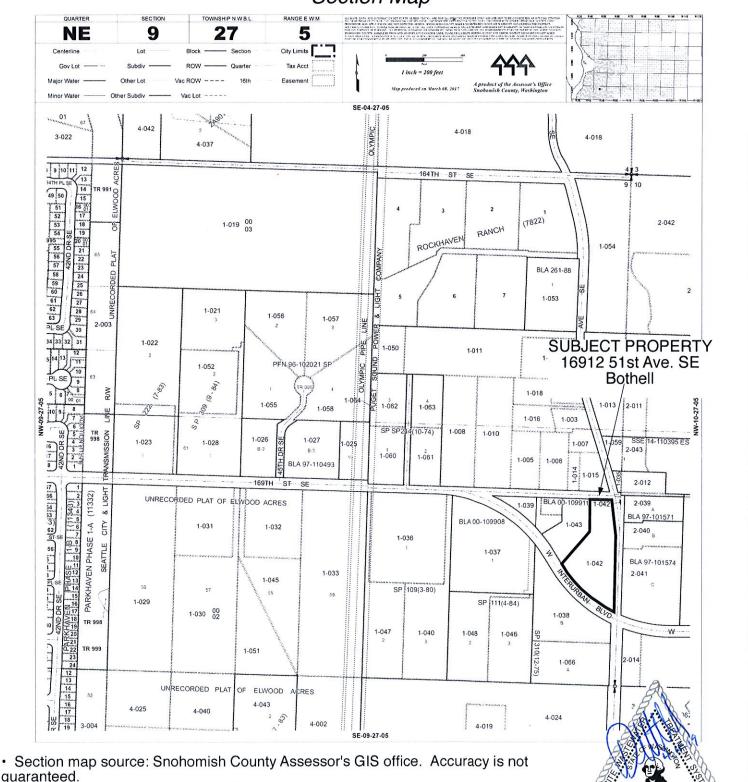
Environmental Health Division

3020 Rucker Avenue, Suite 104 ■ Everett, WA 98201-3900 ■ fax: 425.339.5254 ■ tel: 425.339.5250



CLIENT NA	ME/JOB #	Bunney / 219056
PROPERT	Y ID#	27050900104200
DRAWN B	YDBM	DATE April 18, 2019
SCALE	NTS	SHEET NO. 2 OF 17

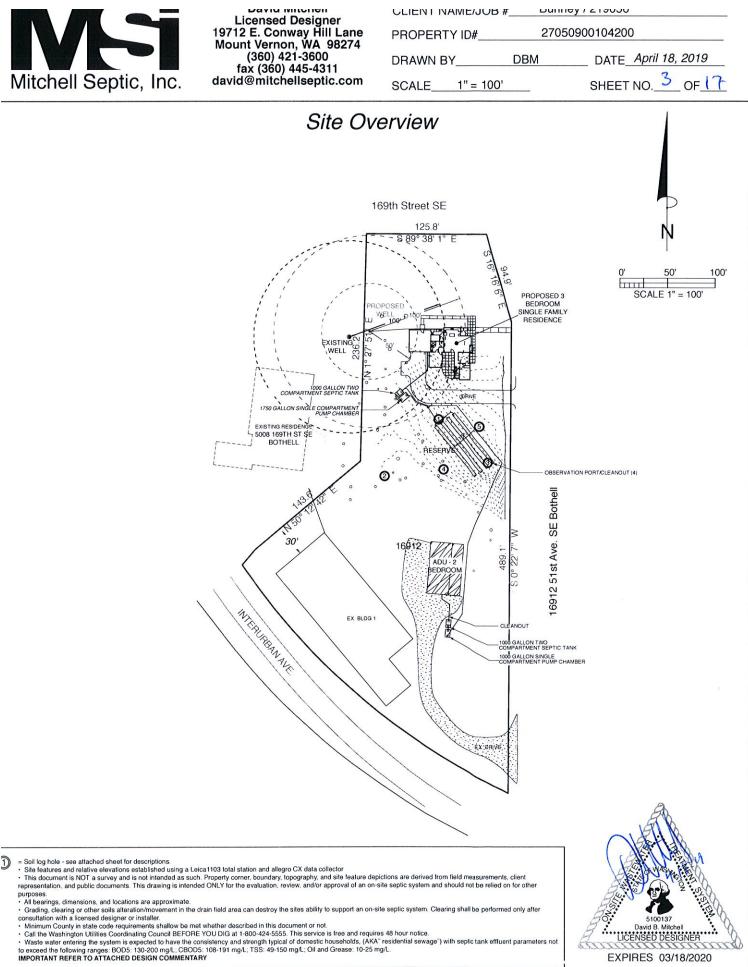




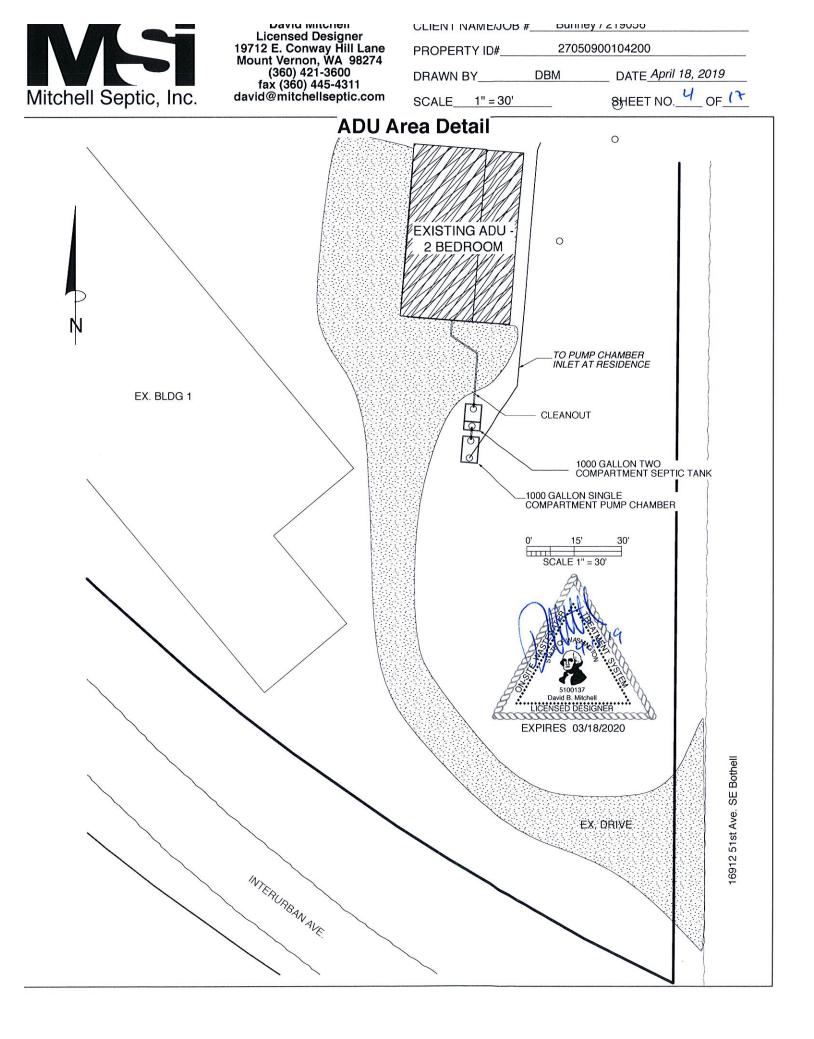
• All bearings, dimensions and locations are approximate.

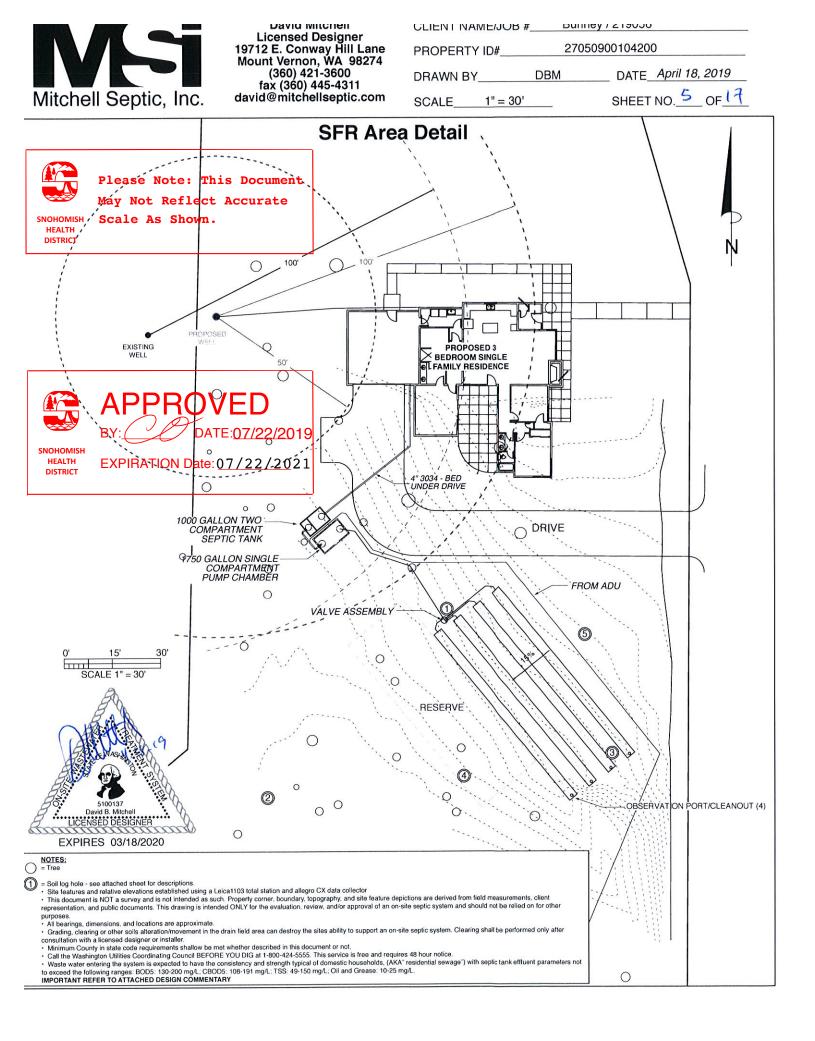
• Map is intended to show parcel in context of neighboring properties and to assist in site location.

LICENSED DESIGNER EXPIRES 03/18/2020



EXPIRES 03/18/2020







David Wittenen Licensed Designer 19712 E. Conway Hill Lane Mount Vernon, WA 98274 (360) 421-3600 fax (360) 445-4311 david@mitchellseptic.com

CLIENT NAME/JOB #_		Builley / 219000
PROPERTY ID#		27050900104200
DRAWN BY	DBM	DATE_ <i>April 18, 2019</i>
SCALENTS		SHEET NO. 6 OF 17

Soil Log Detail

EXAMINATION DATE: February 15, 2018 & and March 27, 2019 PREVIOUS WEEK PRECIPITATION: SEASONALLY NORMAL EXPECTED WATER TABLE CONDITIONS: SEASONALLY NORMAL

				APP.	
	HORIZON DEPTH	COLOR, MODIFIER	TEXTURE		TYPE
SOIL	LOG 1				
	0 TO 5 INCHES		SL	0.60	4
	5 TO 21 INCHES	and a second and a second second	LMS	0.80	3
	21 TO 45 INCHES		LMS	0.80	3
	45 TO 46 INCHES		FS		
	MAX. ROOT DEPTH: MIN. MOTTLING DEPTH: DEPTH TO STANDING WATER:	42 29+ NONE	SYSTEM TYPE:	LPD	
SOIL	LOG 2				
	0 TO 7 INCHES		SL	0.60	4
	7 TO 18 INCHES	page to constant including provides - Support Constant and a set	LMS	0.80	3
	18 TO 44 INCHES		LCS	0.80	3
	44 TO 45 INCHES	GREY, COMPACT - HP	FS		
	MAX. ROOT DEPTH: MIN. MOTTLING DEPTH: DEPTH TO STANDING WATER:	28 25+ NONE	SYSTEM TYPE:	LPD	
SOIL	LOG 3		0	0.00	
	0 TO 5 INCHES 5 TO 18 INCHES	Contraction of the second s	SL LMS	0.60 0.80	4
	18 TO 38 INCHES		LCS	0.80	3
	38 TO 41 INCHES	GREY, COMPACT - HP	FS		
	MAX: ROOT DEPTH: MIN: MOTTLING DEPTH: DEPTH TO STANDING WATER:	36 36+ NONE	SYSTEM TYPE:	LPD	
SOIL	LOG 4				
	0 TO 5 INCHES		SL	0.60	4
	5 TO 36 INCHES 36 TO 43 INCHES		LMS LMS	0.80	3 3
	43 TO 46 INCHES		FS		
	MAX. ROOT DEPTH: MIN. MOTTLING DEPTH: DEPTH TO STANDING WATER:	36 36+ NONE	SYSTEM TYPE:	LPD	
		NONE			
SOIL	LOG 5 0 TO 9 INCHES	BRN	SL	0.60	4
	5 TO 22 INCHES		LMS	0.80	3
	18 TO 43 INCHES	OLIVE, GRAV.	LMS	0.80	3
	43 TO 44 INCHES	GREY, COMPACT - HP	FS		
	MAX. ROOT DEPTH:	36	SYSTEM TYPE:	LPD	
	MIN. MOTTLING DEPTH: DEPTH TO STANDING WATER:	43+ NONE			
DESIGNATION: NOT DETERMINED					
O ABBREVIATIONS:					
	= COARSE SAND; FS = FINE SAND; L = LO				
	MEDIUM SAND; LVFS = LOAMY VERY FINE IY LOAM; SICL = SILTY CLAY LOAM; SIL = S				
COLORS: BLK = BLACK; BRN = BROWN; DK Addifiers: BLKY = BLOCKY; CMT = CEMEN ROCKY; GRV = GRAVELLY; HP = HARD F	= DARK; GRY = GRAY; OL = OLIVE; ORG = NTED; COB = COBBLY; CPT = COMPACT; GP PAN; MT = MOTTLED; V = VERY; X = EXTRE	ORANGE; Y = YELLOW RAN = GRANULAR; EMELY;			
	DAR; TH - WESTERN HEMLOCK; AR = RED				
oil logs, as described, support the specificatio	C = INDIAN PLUM; GS = SALAL; SW = SWC				
agit County Health Department regulation DO NOT alter soil conditions in in designated d Grading, clearing, compaction, or other soils all	rain field or reserve area including by vegetation	on removal:			
on-site septic system. Drain field site preparation shall be performed o	only under the direction of the designer or licer				
Application Rate is expressed in gallons/square) foot/day				

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CLIENT NAME/JOB #	Bunne	y/219056
PROPERTY ID#	27050	900104200
DRAWN BY	DBM	DATE <i>April 18, 2019</i>

DRAWN BY___ SCALE_ NTS

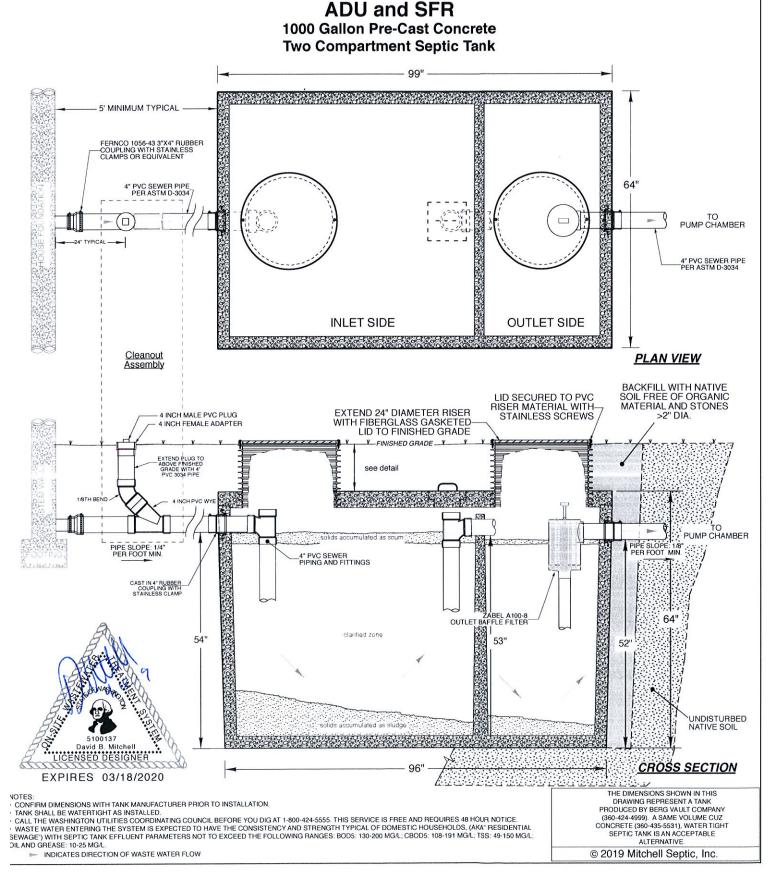
SHEET NO. 7 OF 17

Design Commentary	
Project Description: On-site septic system to support a building permit for a 3 bedroom single family	y residence (SFR) and
connection to a 2 bedroom Accessory Dwelling Unit (ADU):	
Connect ADU to new septic system:	
4" 3034 PVC gravity line:	
 Connect ADU to septic tank using 4" 3034 PVC per SDR 35 maintaining 1/4"/foot minimum fall between but 	uilding and septic tank
inlet and such that new tanks are no greater than 12" deep.	
Install cleanout as indicated on attached detail	
ADU Septic tank: concrete, 1000 gallon, two compartment	
Install as shallow as possible while maintaining gravity fall from ADU - top of septic tank lid shall be no greater.	ater than 12" deep
 Tank to have 24" (min.) diameter, cast in place risers with gasketed lids extending to finished grade Fit outlet with Zabel A100-8 outlet baffle filter or approved equivalent 	
 Tank elevation shall be carefully established prior to digging the tank hole 	
gravity feeds, via 4" 3034 PVC with 1/8"/foot minimum fall:	
ADU Pump chamber: concrete, 1000 gallon, single compartment tank with risers to grade;	
 Tank to have 24" (min.) diameter, cast in place risers with gasketed lids extending to finished grade 	
Houses pump and transducer	
 Adjust flow to ~5 gallons/minute using valve and such that pump run time is ~ 2 minutes; 	
connects via 1.25" PVC Sch 40 Transmission Line to outlet side of Tank #1	
Install New SFR system	
4" 3034 PVC gravity line:	
Replace line residence to septic tank using 4" 3034 PVC per SDR 35 maintaining 1/4"/foot minimum fall su	ich that new tanks are no
greater than 12" deep.	
Install cleanout as indicated on attached detail	
SFR Septic Tank:	
1000 gallon, two compartment concrete tank approved for use in Washington State	
Tank to have 24" (min.) diameter, cast in place risers with gasketed lids extending to finished grade Fit and the with Table 1400.0 such a befit filter or operating to grain placet	
Fit outlet with Zabel A100-8 outlet baffle filter or approved equivalent Table doubtion shall be carefully established prior to diaging the table bala	
 Tank elevation shall be carefully established prior to digging the tank hole gravity feeds, via 4" 3034 PVC with 1/8"/foot minimum fall: 	
SFR Pump chamber:	
 1750 gallon concrete, single compartment tank 	
 Tank to have 24" (min.) diameter, cast in place risers with gasketed lids extending to finished grade 	
 Houses pump and controls 	
feeds via 1.25" PVC Sch 40 Transmission Line	
Valve Assembly: 1.25" header feeding 1.25 inch dia. laterals. Fit lines with ball valves. Use ball valves to ad	djust residual dynamic
head to 60" in each trench	
Extend access to grade.	
Pressure drain field: Designed for 5 bedroom x 120 gallons/bedroom/day equals peak loading of 600 gallo	
day = 750 square feet. Configure as 4 pressurized trenches, each 3 feet wide, lengths as shown, totaling 26	7 lineal feet.
 Spacing between 1/8 inch orifices shall be 60" which implies a total of 56 orifices 	
Orient orifices at 12 o'clock position and install orifice shields	
4.5' minimum wall to wall spacing	
 Install using Hancor ARC 36 gravel-less vaults or pre-approved equivalent <u>TANEX Cintoflex E mesh required on trench bottom prior to placing gravel-less vault to act as rode</u> 	nt harriar
Install clean out at distal end of each lateral (4 total)	nt barrier.
Pump: OSI high head PF3005 or pre-approved equivalent	
Control Panel: Aquaworx IPC-S01 panel featuring simplex pump operation, data collection, and transducer.	
The transducer is manufactured with a shielded, fixed length cable. The cable can be cut but not split.	
shall determine the required cable length prior to installation.	
 Theoretical timer settings are shown on attached timer calculations sheet 	
 Actual settings are determined by on-site drawdown test not to exceed daily design flow 	
 Avoid placement of panel on exterior bedroom walls 	A
Reserve: LPD system area shown	3.8
Pressure Fittings: PVC Fittings Sch 40 per ASTM D-2466.	A. A. Lan
Piping: Gravity sewer: 4" PVC D-3034 ; Pressurized pipe: PVC Pipe Sch 40 per ASTM D-1785.	CHARLE SE
Encasing: Water lines shall maintain a minimum horizontal separation of 10' from septic system component	S. AST Amesis - 3
NOTES:	A A A A A A A A A A A A A A A A A A A
All tanks are to be water tested prior to backfill. All tanks to have risers to finished	A
grade. • It is the Licensed Installer's responsibility to supply the pump, floats, and	BS: IP igh
<u>alarm panel and plumb the pump and floats. Wiring the pump, floats, and</u>	David B. Mitchell
alarm panel is the responsibility of a Licensed Electrician. All bid documents	LICENSED DESIGNER
should reflect consideration of necessary wiring work.	EXPIRES 03/18/2020

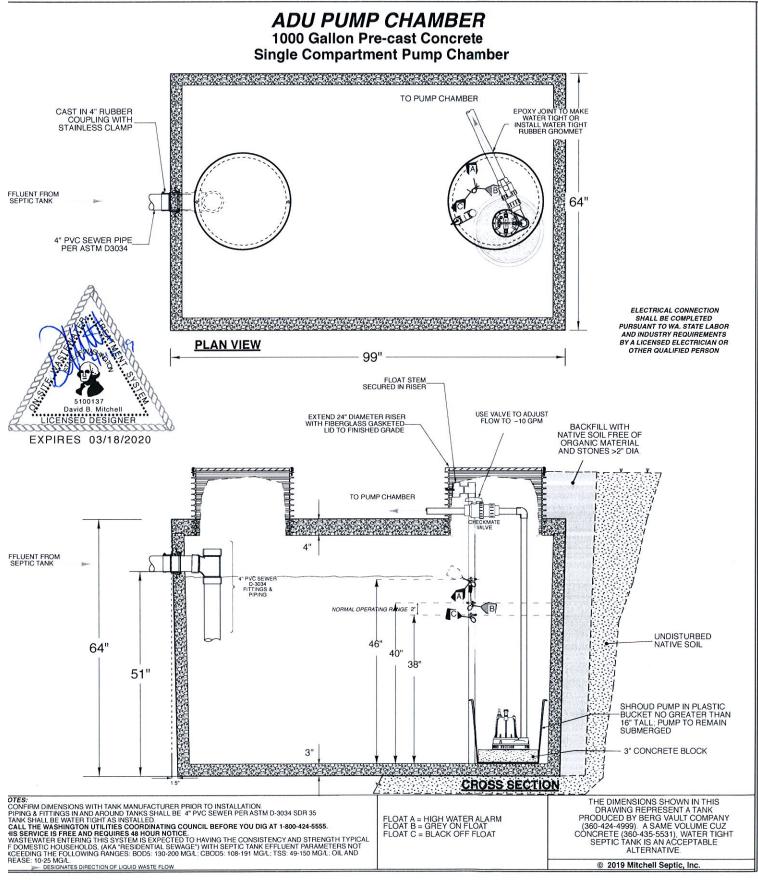


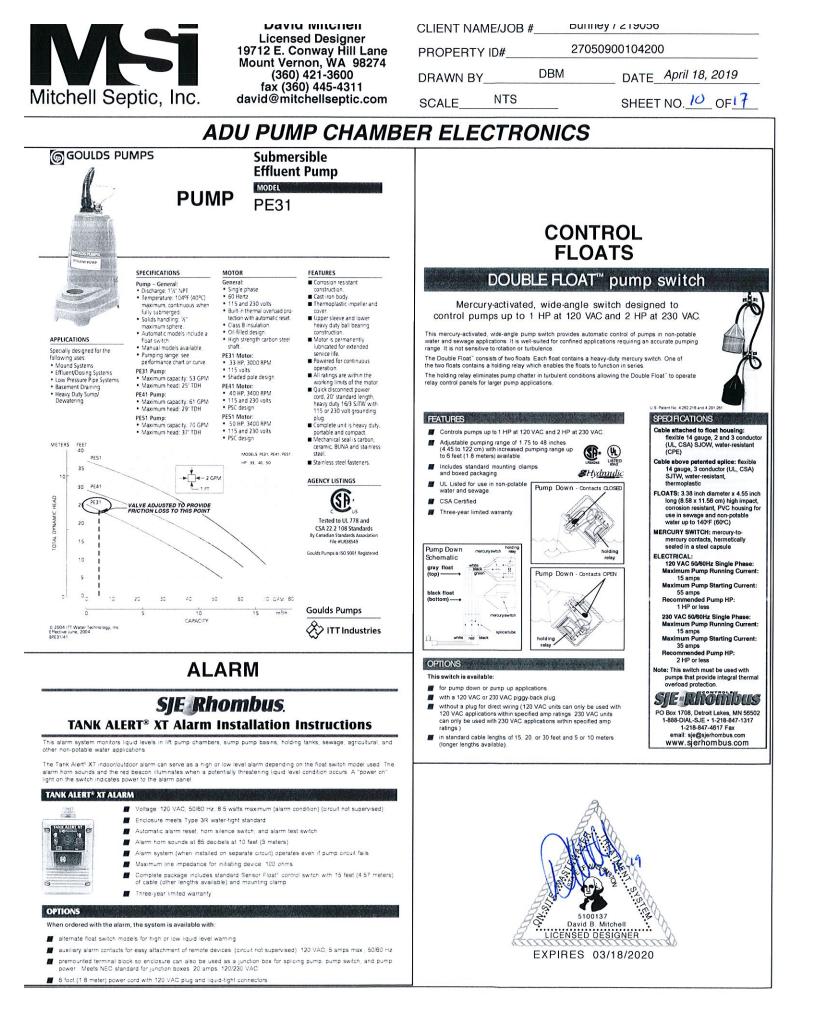
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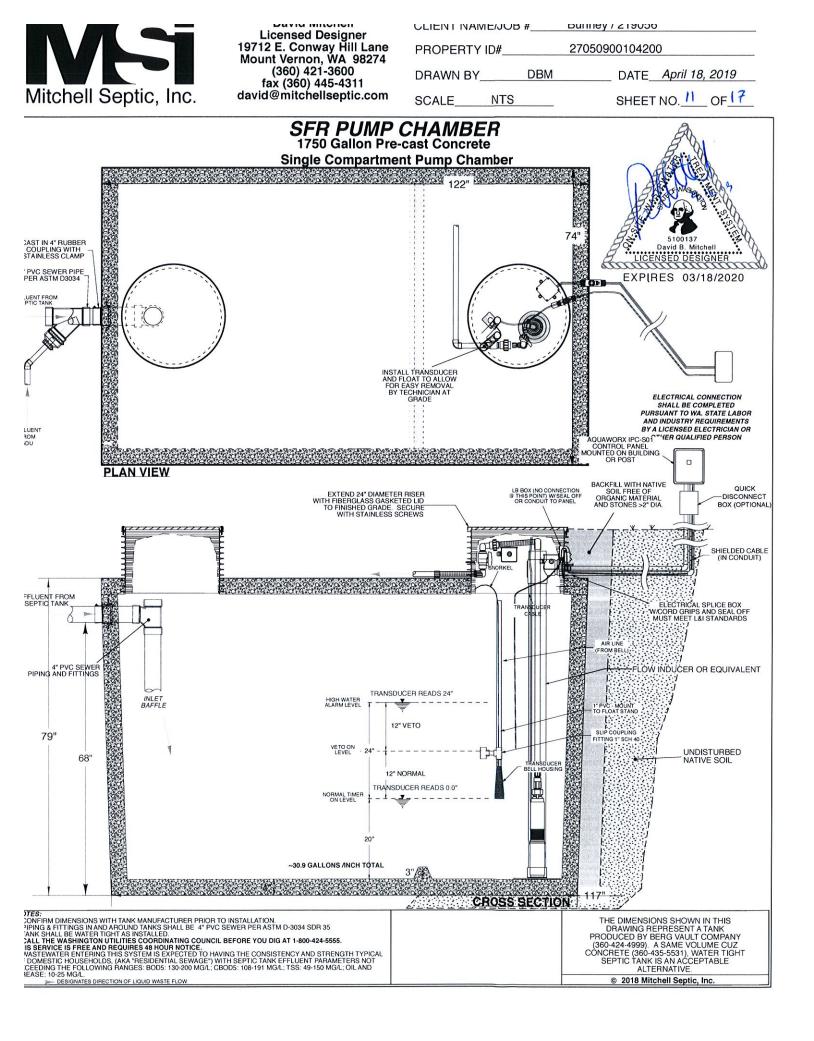
SCALE NTS		SHEET NO. 8 OF 7
DRAWN BY	DBM	DATE April 18, 2019
PROPERTY ID#		27050900104200
CLIENT NAME/JOB	#	Dunney / 219000













Pressure Distribution and Timer Setting Calculations

System Summary Data:	
Gallons per day	600
Soil loading rate	0.8 gal/sq. ft./day
Drain field size	750.0 sq. ft.
Trench width	3 ft.
Lineal feet of trench	250 ft.
Maximum orifice spacing	60 inches
Minimum # orifices	52
Number of laterals	4
Number of orifices/lateral	13
Total number of orifices	52
Trench length	67.0 feet each trench
Lateral length for orifice calculations	65.0 (~1/2 orf. spacing removed at both ends)
Calculated orifice spacing	60 inches
Orifice diameter	0.125 1/8
Dynamic residual head in feet	5 aka 'distal head' (ft)
Flow per orifice at residual head	0.43 flow of .125 dia. orifice at 5' residual head**
Total flow at 2' head	22.36 gpm

Pressure Distribution Calculations:

4 laterals end fed by a mainfold adjusted with valves to 5 feet dynamic residual head.

Spacing between orifices shall be 60 inches which implies a total of 52, 1/8 inch orifices

5 feet residual head yields 0.43 gallons per minute times 52 orifices equals 22.36 gallons per minute.

						Pipe/Fitting	3	
	# orifices	Pipe Dia. inches	Pipe Spec.	Pipe Length (ft)	Flow (gpm)	Head Loss (ft)*	Elevation Difference	Total Head
	Unices	inches	spec.	Length (It)	(gpm)	L055 (II)	Difference	neau
Pump to Manifold		1.25	Sch 40	60	22.36	3.88	10	13.88
Valve Assembly	-	1.25	Sch 40		22.36	2.00	0	2.00
Lateral 1	13	1.25	Sch 40	65	5.59	0.32	0	0.32
Lateral 2	13	1.25	Sch 40	65	5.59	0.32	0	0.32
Lateral 3	13	1.25	Sch 40	65	5.59	0.32	0	0.32
Lateral 4	13	1.25	Sch 40	65	5.59	0.32	0	0.32
Residual Head								5.0
Totals	52				22.6	0		22.90
*Friction loss formula			**Discha	arge formula				

 $f = L (Q/K)^{h} 1.85$ where f = friction loss through pipe L = length of pipe (ft) Q = flow (gpm) K = constant from Table

**D	ischarge formula
	11.79 * d^2 * h*^.5
whe	ere
Q=	oririce discharge rate (gpm)
d =	orifice diameter in inches
h =	residual pressure head in feet

Theoretical Timer Settings

	('normal' time re	egime)	('Veto' time regime)		
assumed usage per day flow to drain field total minutes on to DF per day	240 22.6 11	gal/day gal/min min/day	600 22.6 26.5	gal/day gal/min min/day	
on time	2.0	minutes	2.0	minutes	
dose volume cycles / day	45 5	gal	45 13	gal	
off time	4.5	hours	1.8	hours	

Note: set timer based on actual performance to drain field

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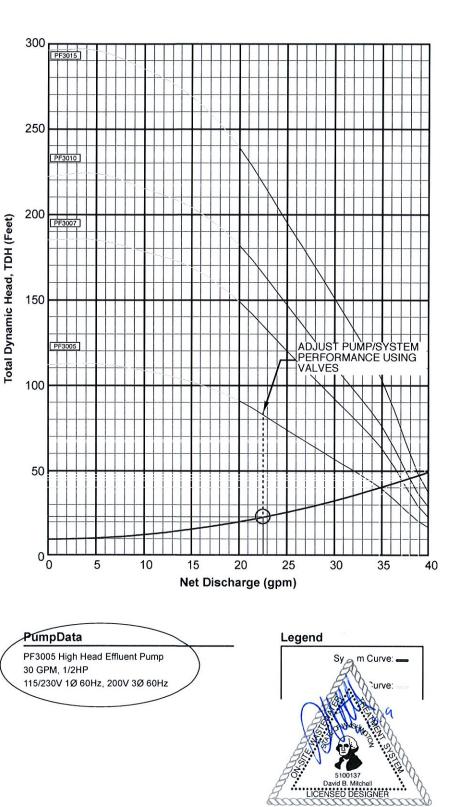
CLIENT NAME/J	OR #Bunney	y/219056
PROPERTY ID# 27050900104200		
DRAWN BY	DBM	DATE April 18, 2019
SCALEN	ITS	SHEET NO. 13 OF 17

Pump Specification

Parameters

Discharge Assembly Size	1.25	inches
Transport Length	60	feet
Transport Pipe Class	40	
Transport Line Size	1.25	inches
Distributing Valve Model	None	
Max Elevation Lift	10	feet
Manifold Length	20	feet
Manifold Pipe Class	40	
Manifold Pipe Size	1.25	inches
Number of Laterals per Cell	4	
Lateral Length	64	feet
Lateral Pipe Class	40	
Lateral Pipe Size	1.25	inches
Orifice Size	1/8	inches
Orifice Spacing	5	feet
Residual Head	5	feet
Flow Meter	None	inches
'Add-on' Friction Losses	0	feet
Calculations		
Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	52	
Total Flow Rate per Zone	22.6	gpm
Number of Laterals per Zone	4	
% Flow Differential 1st/Last Orifice	1.0	%
Transport Velocity	4.9	fps
Frictional Head Losses		
Loss through Discharge	3.6	feet
Loss in Transport	3.9	feet
Loss through Valve	0.0	feet
Loss in Manifold	0.4	feet
Loss in Laterals	0.1	feet
Loss through Flowmeter	0.0	feet
'Add-on' Friction Losses	0.0	feet
Pipe Volumes		
Vol of Transport Line	4.7	gals
Vol of Manifold	1.6	gals
Vol of Laterals per Zone	19.9	gals
Total Volume	26.1	gals
Minimum Pump Requirem	ents	
Design Flow Rate	22.6	aom

Design Flow Rate	22.6	gpm
Total Dynamic Head	22.9	feet



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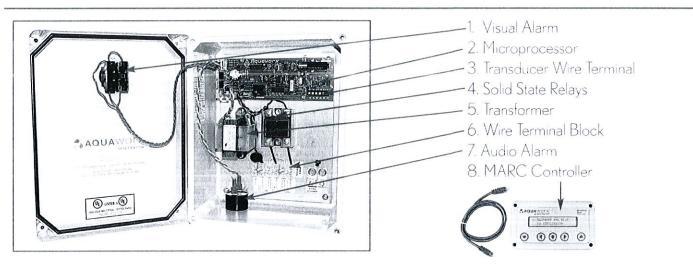
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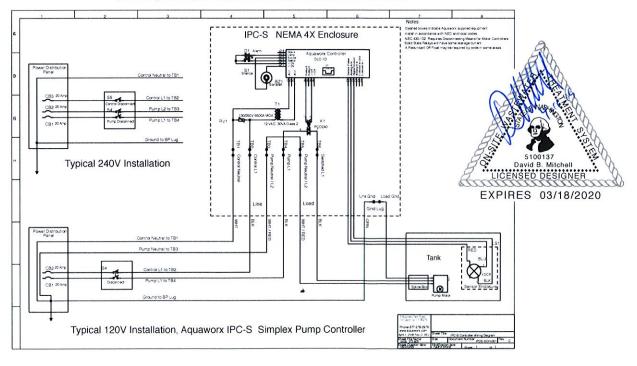
CLIENT NAME/JOB #Burney / 219000				
PROPERTY ID#27050900104200			00	
DRAWN BY_		DBM	DATE_	April 18, 2019
SCALE	NTS		SHEET	NO.14 OF17

Aquaworx IPC-S01 Control Panel

The Aquaworx Intelligent Pump Controller (IPC) Panel provides an innovative approach to time controlled pumping. It is used with a single pump operation – (on demand/time dose, lift stations, pump to gravity, etc.). Designed specifically for the onsite industry, the IPC Panel leverages floatless pressure transducer technology. The IPC Panel monitors liquid levels, controls pumping time intervals, and logs events in real time. Using the MARC (Mountable and Removable Controller) as the user – interface, the Aquaworx IPC Panel offers a cost-effective solution with expanded capability. The data logging capabilities of the IPC Panel enables monitoring of multiple types of system events, which enhances operational assessment, troubleshooting, and maintenance of the onsite system.



Wiring Diagram For Simplex Applications



Note: Two circuits should be provided to the panel one for control, one for the pump

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CLIENT NAME/JOB #_		Bunney / 21905	
PROPER	RTY ID#	2	7050900104200
DRAWN	BY	DBM	DATE_
SCALE_	NTS		SHEET

SHEET NO. 15 OF 17

April 18, 2019

Aquaworx IPC-S01 Control Panel

AQUAWORX IPC PANEL INSTALLATION INSTRUCTIONS

The Aquaworx IPC (Intelligent Pump Control) Panel provides an innovative approach to pump control. Designed specifically for the onsite industry, the IPC Panel leverages simple pressure transducer technology for the enhancement of pump system performance, and ease of installation. Relying on an embedded microprocessor in the pump controller and a floatless pressure transducer in the pump chamber, the IPC Panel monitors liquid levels, controls pumping time intervals, and logs events in real time. Using the Mountable and Removable Controller (MARC) as the user interface, the IPC Panel offers a costeffective solution with expanded capability.

Mitchell Septic, Inc.

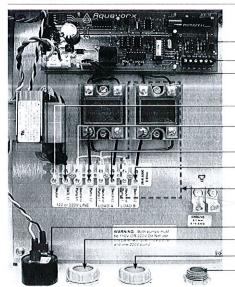
Aquaworx offers three models of the IPC Panel; Simplex, Duplex and Sand Filter, to meet a variety of system design requirements. The Simplex Panel has the ability to time control a single pump, while the Duplex Panel can control two pumps in an alternating design with independent timing. The Sand Filter Panel has the ability to time control two individual pumps having independent level sensors, allowing for a design which can time-dose a treatment system and drainfield

II. Installing the IPC Panel

NOTE: A qualified electrician must perform all wiring. Complete wiring diagram available at www.aquaworx.com

The following components and tools may be required for installation:

- · Screwdriver (sm and med size flat head)
- · Pipe cutter and tape measure
- Fish tape
- Wire strippers/cutters
- Electrical tester
- Drill
- . 3/4" to 1" screws
- 1" PVC coupler



1. Mount the IPC Panel to the wall or post. Position the IPC Panel so that the power supply enters the IPC Panel through the bottom approximately 1" to the right of the audible alarm unit.

2. On Simplex Panels drill two holes (3 holes for duplex) in the bottom of the enclosure spaced approximately 2" apart and in line with the audible alarm unit. When facing the panel, the order of conduit connections from left to right is shown below, as well as illustrated in Figure 2:

Contact Infiltrator Systems Inc. 1-800-221-4436 for additional technical and product information.

I. General

Unpack the Aquaworx IPC Panel and check for any visible damage both external and internal. Also verify that there are no cracks or damage to the pressure transducer bell. Note: You will need to identify the number on the pressure transducer bell as it is needed during the MARC setup. Notify Aquaworx immediately at 1-877-278-2979 if any damage has occurred.

ALL INSTALLATIONS MUST BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE.



Electrical conduit

· Step bit

· Hole saw

- · Electrical tape
- Splice box for pump connection
- · Waterproof wire connectors
- . 1" PVC (for transducer handle, amount determined by tank depth (6' length typical)

FIGURE 2: IPC PANEL WIRING SETUP AND TRANSDUCER 3-WIRE CONNECTION

Circuit board

Transducer signal wire terminal strip Varistor surge suppressor

Dedicated alarm from supply (#1) (120 volt, 20 amp source)

- Dedicated pump circuit from supply (#2) (120 or 220 volt, 20 amp source; up to a 2 HP pump)
- Power from panel to pump

(pump A for duplex)

Power from panel to pump B (duplex only)

This section required for a duplex system only Ground terminals

Audible alarm unit

Power in

- Power out
- Transducer signal wire

Power in: 2 dedicated 20 amp circuits from house to power the panel, 120V (1) and pump, 120V or 220V(2) Power out: Power supply from panel to pump Transducer signal wire: Signal transmission from panel to pump

NEMA 4X fittings must be installed in each field-drilled hole to retain the integrity of the enclosure's 4X rating

AQUAWORX 3

3. Power to pumps: run the panel (s) power wires from the IPC Panel to the septic tank riser. Connect the wiring in the splice box using water-tight connectors. Connect pump wires to the IPC Panel by carefully following the wiring diagram enclosed with the panel. A gas-tight seal (see Figure 1) is required to prevent corrosive septic gases from migrating into the IPC Panel

4. Power to controller: wire the supply circuit to the panel Aquaworx recommends that the panel be wired to two designated circuits. An external disconnect should be incorporated into the supply circuit and mounted within easy reach of the IPC Panel. Note: Site specific codes have final authority on external wiring requirements

III. Installing the Pressure Transducer and Bell Assembly

The pressure transducer bell assembly replaces the traditional float tree assembly. The 1" PVC stand pipe may be mounted by applying the same methods used to install a float tree assembly

1. Determine the position of the pressure transducer bell assembly. The pressure transducer bell assembly must be mounted so that it allows the liquid level to pump below the bottom of the pressure transducer bell. This allows the pressure transducer bell to get a fresh air bubble

2. Feed the transducer signal wire and snorkel tube through the 1" PVC stand pipe and glue to the pressure transducer bell using a 1" tee. The length of the stand pipe when secured should position the bottom of the pressure transducer bell above the top of the pump.

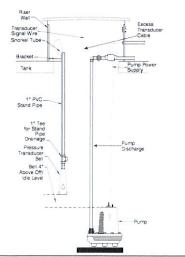
3. Cut off the snorkel tube approximately 9" lower than the top of the stand pipe and secure it to the transducer signal wire. The snorkel tube should be positioned in the form of an upside-down U as high as possible in the riser. This allows the snorkel tube to create an air lock in the event of a flooded tank.

4) NOTE: The Z-bias value labeled on the side of the pressure transducer bell. Later in the set-up, you will be instructed to program the Z-bias into the IPC Panel.

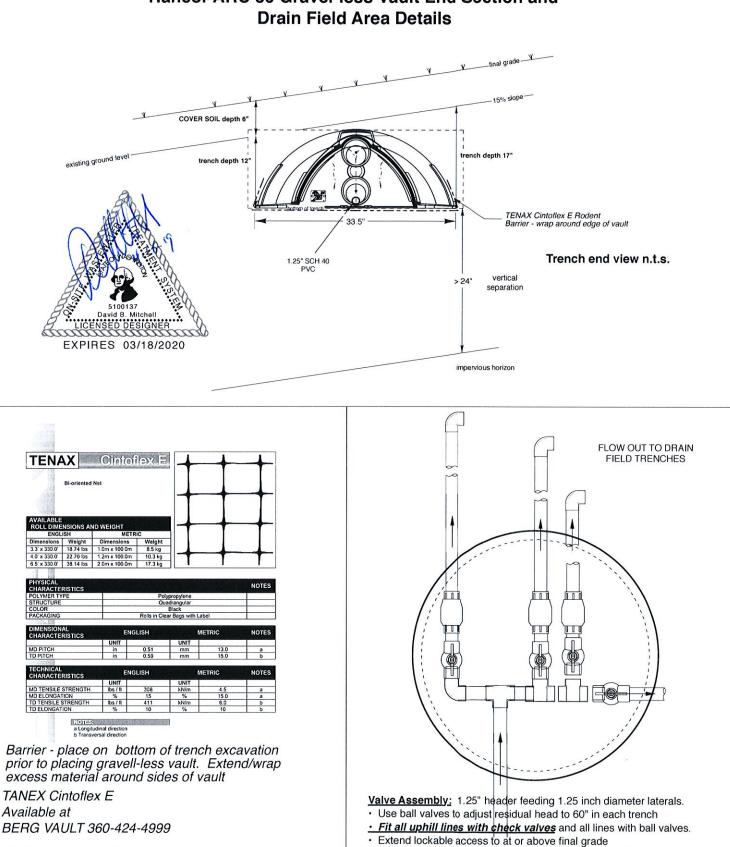
5. Run the transducer signal wire back to the IPC Panel and connect to the transducer signal wire terminal strip. Connect Red to RD, blue to BL and black to BK (first three positions). Make sure to leave enough cable in the riser to allow for removal of the pressure transducer bell assembly during maintenance. The transducer signal wire is rated for direct burial. However, it can be run in a conduit. Site specific codes have final authority on installation requirements

NOTE: Do not attach the pressure transducer bell assembly to the pump discharge pipe. Do not pinch or crimp the snorkel tube tubing.

FIGURE 3: TRANSDUCER









CLIENT NAME/JOB #Bunney / 219056				
PROPERTY ID#27050900104200				
DRAWN BY	DBM	DATE <i>April 18, 2019</i>		
SCALE NTS		SHEET NO. 17 OF 17		

