



WHATCOM COUNTY HEALTH DEPARTMENT
**ON-SITE SEWAGE SYSTEM
CONSTRUCTION PERMIT**

509 Girard Street
Bellingham, WA 98225
Telephone: 360-676-6724
Fax: 360-676-6771

Property ID: 111541

Parcel # 390708 398457

Permit Approval Date: 02/20/2024

Name Tallariti, Conrad

Permit Expiration Date: 02/20/2027

Last

First

Site Address 14039 Chimney Lane

Phone Number 239-235-9510

Installer _____

Installer Number _____

Called for Inspection: _____

It is hereby agreed that the installation of this OSS shall comply with all applicable requirements of WCC 24.05 On-Site Sewage Control Regulations. **A CONSTRUCTION INSPECTION BY THE WHATCOM COUNTY HEALTH DEPARTMENT IS REQUIRED BEFORE COVERING.**

Issuance of an OSS permit does NOT imply or signify fulfillment or satisfaction of any other legal requirement, such as building codes or zoning ordinances. Permit holders are cautioned that compliance with other agency permit requirements, such as obtaining a land disturbance permit from Whatcom County Planning and Development Services, should be accomplished prior to commencement of any construction.

Operation and Maintenance (O&M) is required for every OSS. Attached are the O&M requirements for this OSS.

OSS TO BE INSTALLED ONLY BY LICENSED INSTALLER. HOMEOWNER MAY NOT INSTALL OSS WITHOUT PRIOR APPROVAL FROM HEALTH DEPARTMENT.

I have read and understand the above statements.

Name and Signature of Fee Simple Owner, Contract Purchaser, or Owner's Authorized Agent.

Print Hadi Joastar

Signature [Signature]

Date 2/1/24

OSS TYPE:

☐ Proprietary Treatment Product

☐ Conventional Gravity

☐ Tank Only

Mark all

☐ Sand Filter

☐ Pressure Distribution

☐ Holding Tank

that apply:

☐ Recirculating Gravel Filter

☐ Glendon Biofilter

☐ Subsurface Drip Irrigation (SDS)

☐ Mound

☒ Other OSCAR X02

Comments / Conditions: _____

Construction Inspection By _____

Date _____

Final Approved By _____

Date _____

IMPORTANT: Clean your outlet filter and/or pump screen YEARLY!!

Office Use Only

Released By [Signature]

Date 2/1/24

Customer Copy



WHATCOM COUNTY HEALTH DEPARTMENT
**ON-SITE SEWAGE SYSTEM
PERMIT APPLICATION**

509 Girard Street
Bellingham, WA 98225
Telephone: 360-778-6000
Fax: 360-778-6001

Property ID: 111541

Customer Copy

Tax Parcel # 390708 398457

Date 1/30/2024

Applicant Conrad Tallariti

Applicant Mailing Address 3625 125th st nw
gig harbor, wa 98332-8915

Applicant Phone 1(239) 235-9510

Site Address 14039 chimney lane

Lot Size .17 acres

N S E W side of chimney lane Rd. .1 Miles N S E W of Shuksan rim drive Rd.

Subdivision Name mt baker rim Lot 39 Blk 4 Div

No. of Bedrooms 2 GPD 240 Water Supply ☐ Private ☒ Public mt baker rim water

Property is within the boundaries of a recognized sewer utility ☒ No ☐ Yes

APPLICATION TYPE: ☒ New Construction ☐ Repair ☐ Expansion ☐ As-built ☐ Operational

SEWAGE TYPE: ☒ Residential ☐ Commercial ☐ Food Service ☐ Other

DESIGNER/ENGINEER Jake Breakey
Print Name

COMMENTS: ATTACHED PAPERWORK:

1)old approved oss design from 1991. New oss uses the same footprint as previously approved design

2) approved permit to reroute swale that runs through the middle of the property

Name and Signature of Fee Simple Owner, Contract Purchaser, or Owner's Authorized Agent.

Print Jake Breakey

Signature [Signature]

Date 1/30/2024

If you do not agree with the decision made regarding this application you may request that the decision be reviewed. See Whatcom County Code section 24.07.090 for more information. Contact Whatcom County Health Department for further information and procedures. A fee is charged.

☒ Application Reviewed & Design Approved

Date 2/20/24

OSS Permit Type OSCAR X02

Conditions

☐ Application Not Approved

Date

Reasons

Office Use Only:

Received By SM

Date 2/12/24

Amount Paid 102641

Receipt # 71173



WHATCOM COUNTY HEALTH DEPARTMENT
FILE NOTES

509 Girard Street
Bellingham, WA 98225
Telephone: 360-778-6000
Fax: 360-778-6001

Address _____
Tax Parcel # _____

Page # _____

Date	EHS/Clerk	Notes
2/14/24	JN	Design items need addressed. Emailed designer.
2/15/24	JN	Corrections received. Site visit. Natural resources approval required. Emailed designer to notify.
2/20/24	JN	Natural resources review no longer required. See attached Land Fill & Grade Permit Determination Permit approved, emailed designer to notify.

Tax Parcel # 390708 398457 Date 1/30/2024 Page No. 1
Subdivision Name mt baker rim SSS/LSS # _____
Owner Conrad Tallariti Designer Jake Breakey

Soil Loading Rate

Coarsest Textured Soil .6 gal/ft²/day Designed Treatment Level A

Finest Textured Soil .6 gal/ft²/day

# 1 main 0-14" 14"-30"	- <u>DESIGNER</u> - brown loam
	sandy loam with some gravel
Restrictive Layer Depth	30"
Wet Season Water Table Depth	30"+

#	<u>2 reserve</u>	
0-12'	brown loam	
12-31"	sandy loam with some gravel	
	Restrictive Layer Depth	31"+
	Wet Season Water Table Depth	31"+

- HEALTH DEPARTMENT USE ONLY -

JN 2/15/24 SL-1

0"-24" Sandy loam

24"-30 Sandy loam w/ some gravel

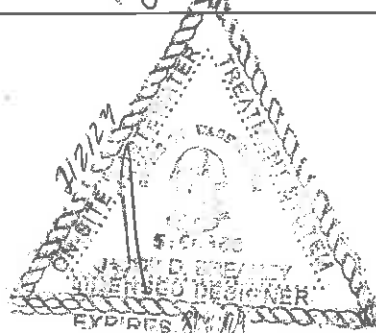
Color change & saturation @ 24"

JN 2/15/24 SL-2

0"-28" Sandy loam

28"-31" sandy loam w/ some gravel

Color change & Saturation @ 28"



Professional Designer/Engineer Stamp

Soil log holes must conform to Chapter 24.05 WCC. Use additional pages for additional soil log test holes.

WHATCOM COUNTY HEALTH DEPARTMENT

Telephone: 676-6724
384-1565

26380

PERMIT NO. 15222

Date 5-30-91

FEE 92⁰⁰ RECEIPT NO. 1611

Received By DmI

SCANNED

SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT TP# 390708
Expires in Three Years 398457

OWNER NELSON, R.W.
Last

Telephone: _____

Installation Address 14039 Chimney Lane, GLACIER

Lot 39 Block 4 Div 1 Sub Division M.B. Rim Parcel # _____

SE Side of Chimney Ln Rd. 1 1/2 Miles SE SHUXSAN Rim Drive Rd.

Designer Schneider

Installer _____

It is hereby agreed that this installation shall comply with all requirements of the Whatcom County Health Department including INSPECTION BEFORE COVERING.

Issuance of a sewage disposal permit does NOT imply or signify fulfillments or satisfaction of any other legal requirement, such as building codes or zoning ordinances. Permit holders are cautioned that compliance with other agency permit requirements should be accomplished prior to commencement of any construction.

I have read and understand the above statements

Stephen A. Schmidt
Signature of Owner or Agent

SPECIAL CONDITIONS:

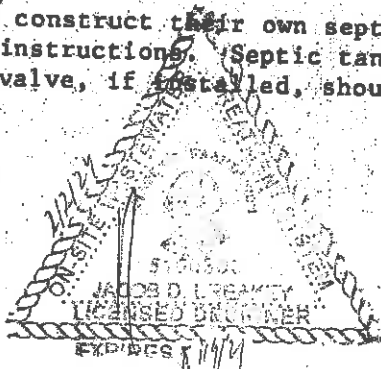
Issued By Al Saluberti
Environmental Health

Final Inspection By _____
Environmental Health

Date _____

NOTICE: Home owners who construct their own septic tank system should contact the health department for instructions. Septic tanks should be pumped every 3 to 5 years. An alternating valve, if installed, should be switched once a year.

2/91





Whatcom County

Land Fill & Grade Permit

Permit #: LFG2022-00091
Issued Date: December 20, 2022
Project Address:

Parcel #: 3907083984570000
Expiration Date: June 20, 2023
Project:

Owner: BRIAN SMIT
Address:

Contractor:
Address:

Phone: 3608155838

Phone:

Project Details

SQ Ft: 0
Valuation: \$0.00
Description: This LDP is for the construction of a new stormwater line, septic system, and building site for a single-family residence.

Permit Fees

Name	Amount	Paid	Due
Grading Permit Application (8268) F / B / M	\$300.00	\$300.00	\$0.00
3% Technology Fee (P/P/C/L)	\$16.20	\$16.20	\$0.00
NR Site Inspection (8246)	\$240.00	\$240.00	\$0.00
Totals:	\$556.20	\$556.20	\$0.00

Insert a permit notice prefix in the report text bank, entry: Permit_Notice_Prefix

Notice

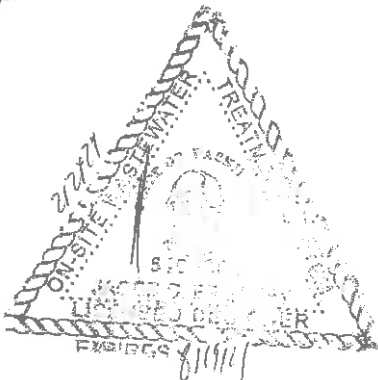
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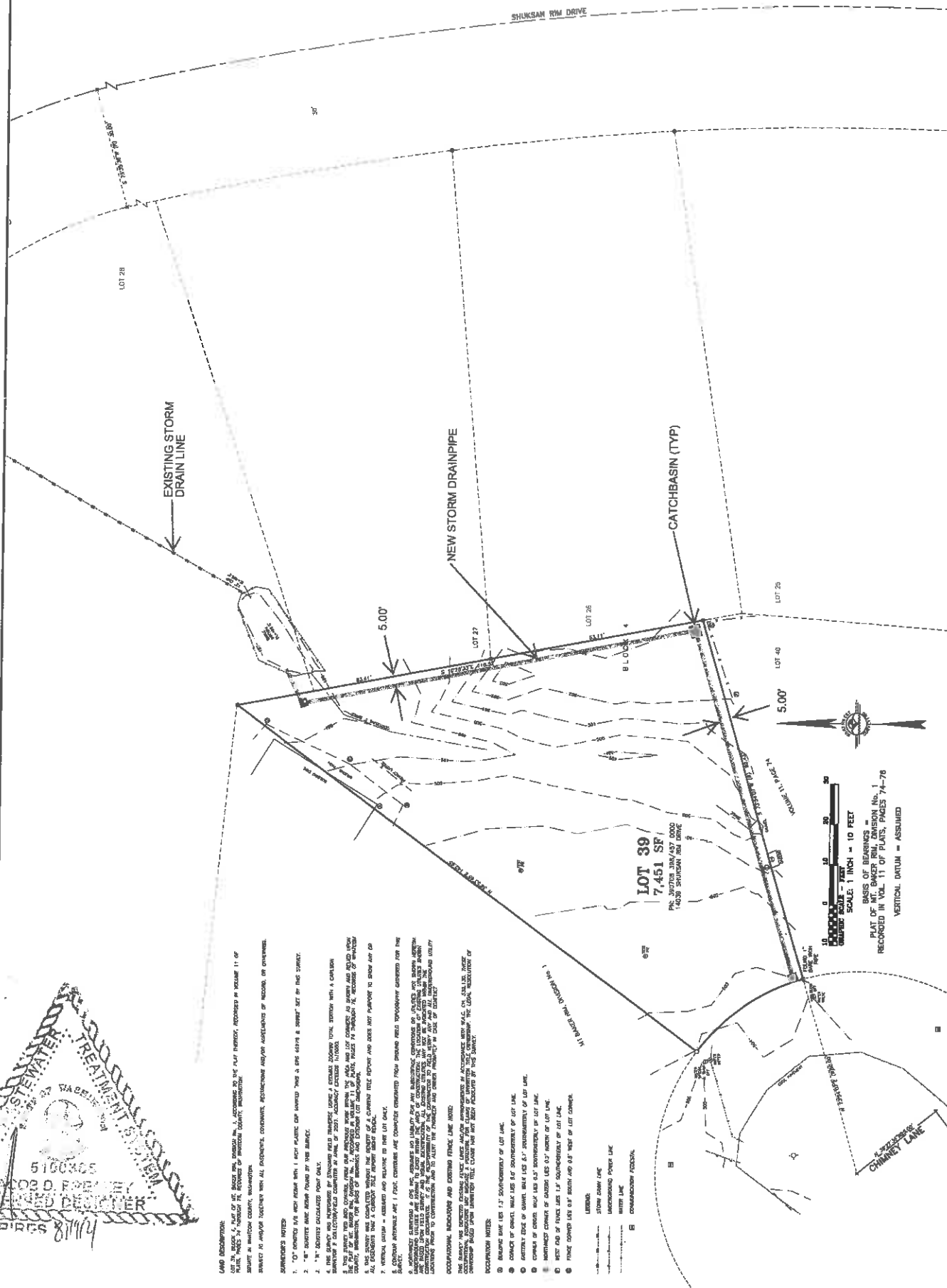
Permit_Signature_1

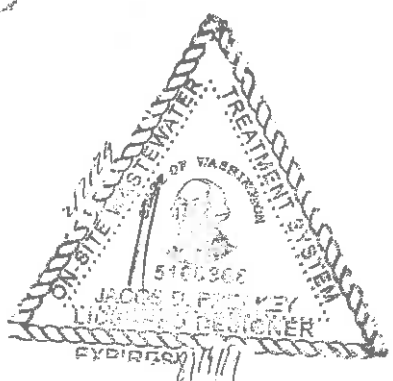
Date

Permit_Signature_2

Date

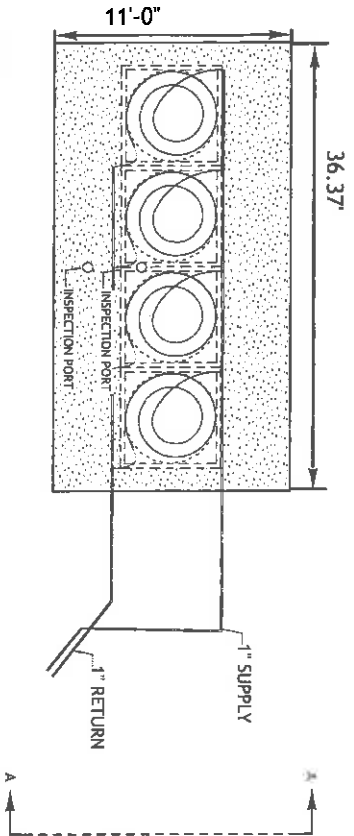






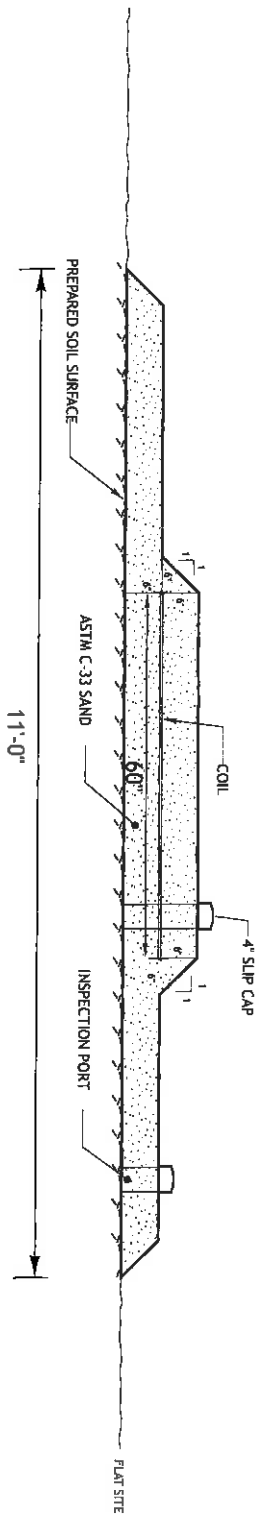
TAX PARCEL:390708 398457
SCALE 1"=30'
2 BEDROOM
PROPERTY LINES AS GIVEN BY
OWNER

OSX-240-5



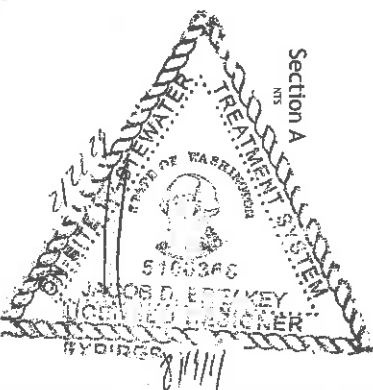
KEEP COILS TOGETHER AT NORMAL SPACING. KEEP CENTERED IN MIDDLE OF OSS

Plan View
NTS

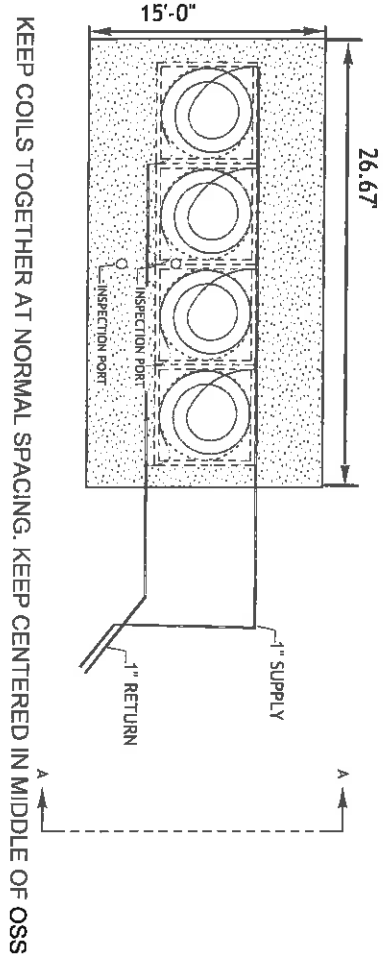


MINIMUM SHOULDER LENGTH: 22.5'
MINIMUM SIDE SLOPES AT 1:1 = 1' (22.5'+1')=23.5'
BASAL AREA WIDTH = 240/.6 = 400 SQFT
400 SQFT / 11'-0" = 36.37'
11'-0" WIDE X 36.37' LONG

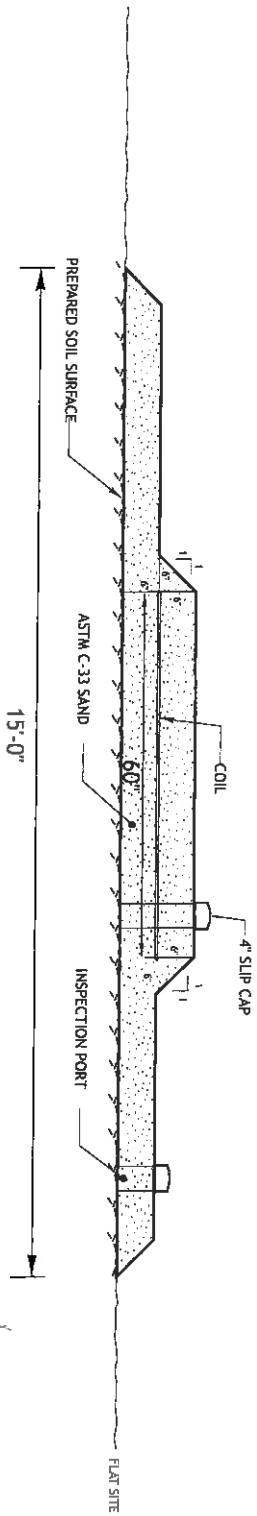
FRICITION LOSS:
 $F=L(Q/K)$
 $20(12/47.8)/1.85$
 $F=1.56'$



RESERVE AREA OSX-240-5



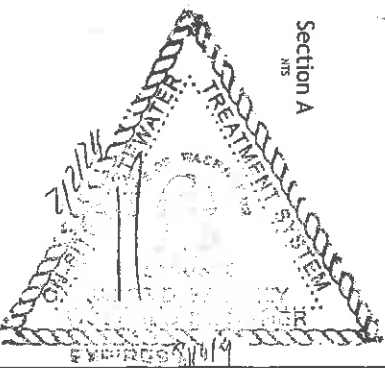
Plan View
NTS

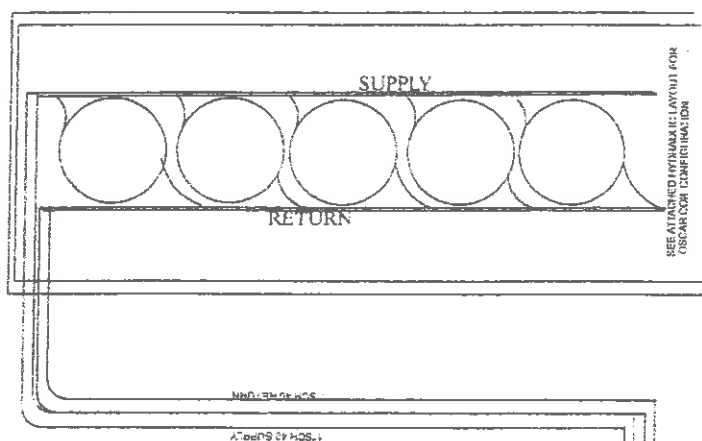


Section A
NTS

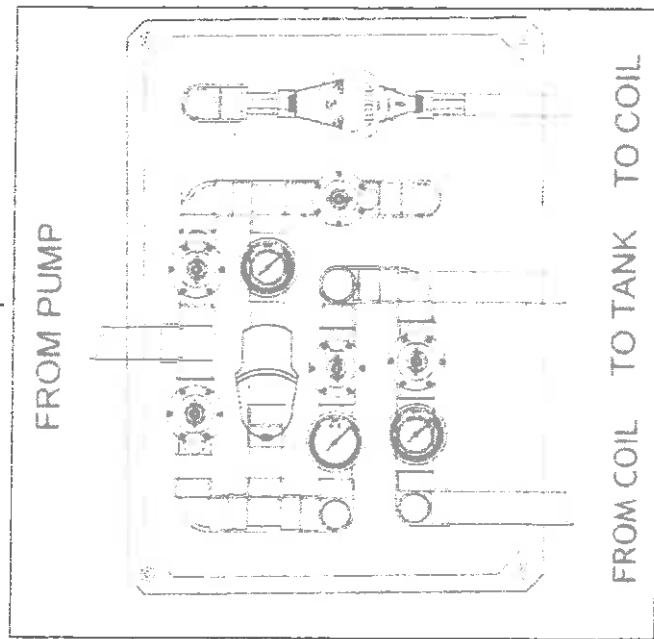
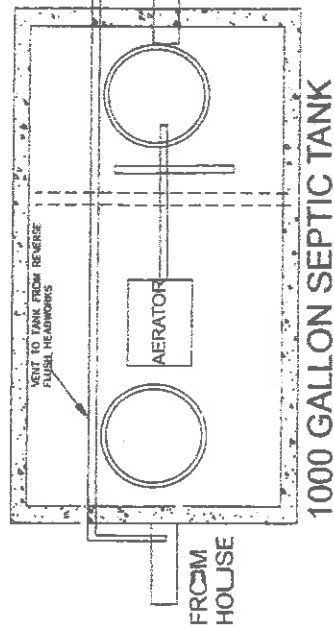
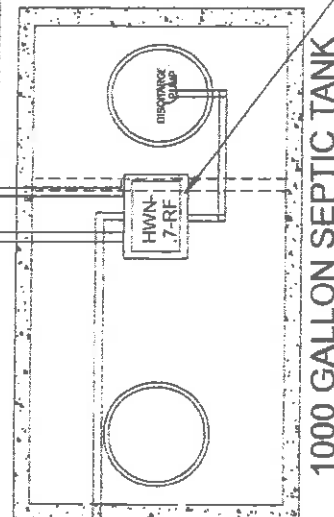
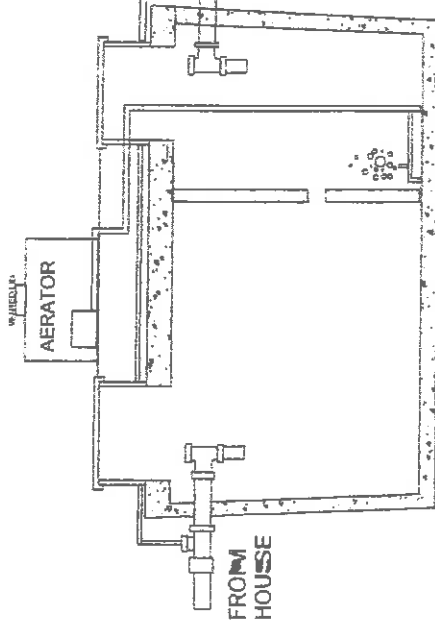
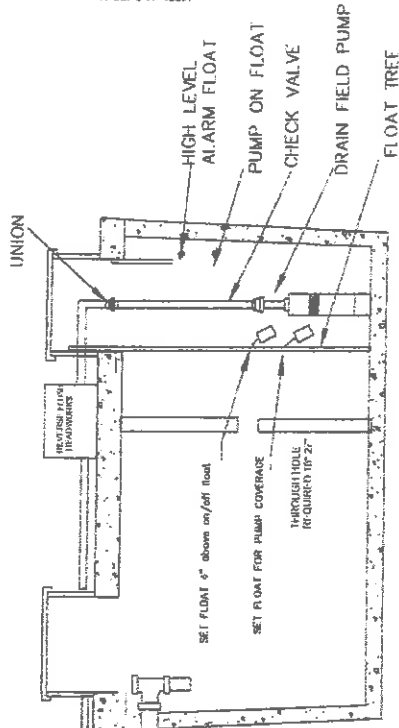
MINIMUM SHOULDER LENGTH: 22.5'
MINIMUM SIDE SLOPES AT 1:1 = 1' (22.5'+1')=23.5'
BASAL AREA WIDTH = 240/6= 400 SQFT
400 SQFT/ 15'-0" = 26.67'
15'-0" WIDE X 26.67' LONG

FRICITION LOSS:
 $F=L(Q/K)$
 $20(12/47.8)^{1.85}$
 $F=1.56'$





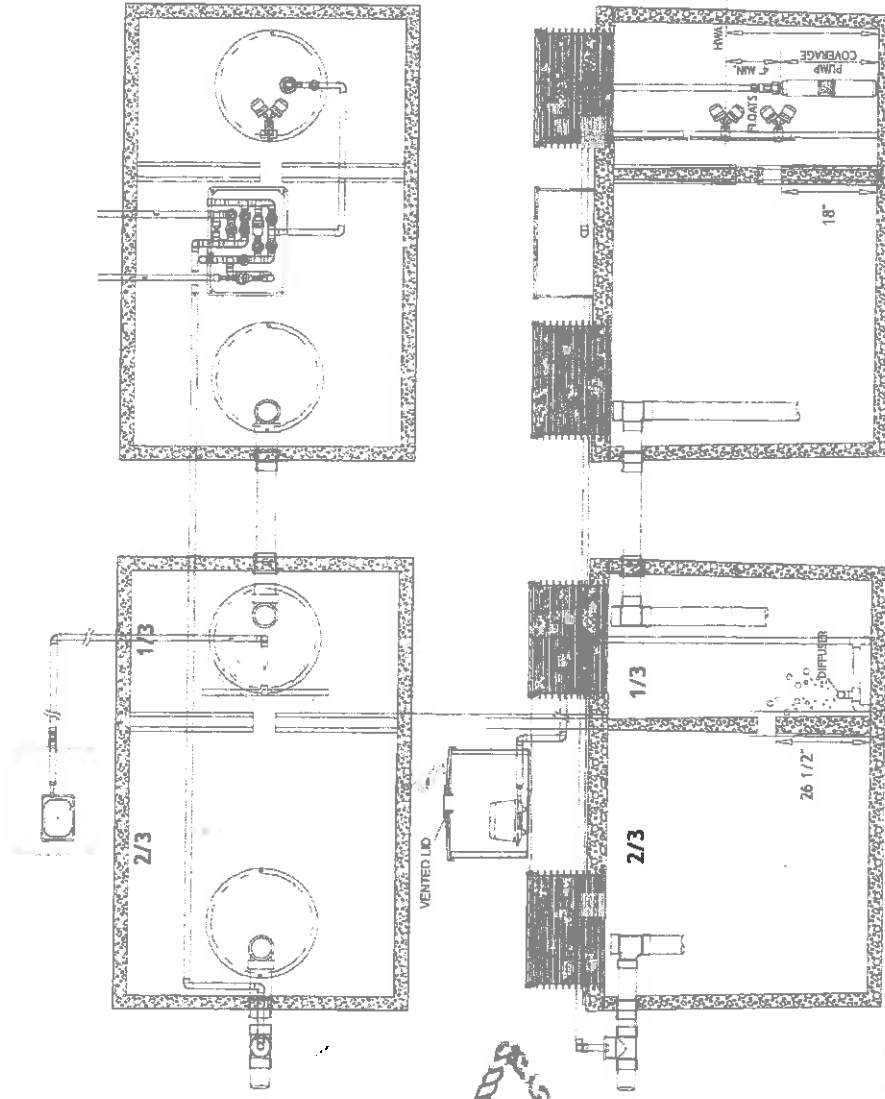
SEE ATTACHED HYDRAULIC LAYOUT FOR
OSCILLATOR CONFIGURATION



XO2 Tanks

Pre-cast Concrete
Septic Tank

Pre-cast Concrete
Discharge Tank



PLAN VIEW

CROSS SECTION

LOWRIDGE ONSITE TECHNOLOGIES

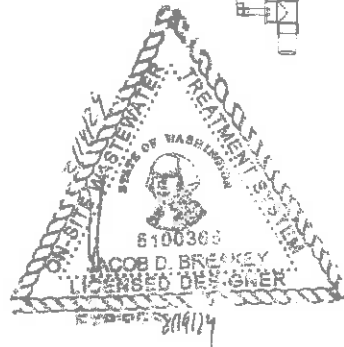
DRAWING ID: XO2 Tanks

SCALE: NTS

DRAWN BY: DBM

CK BY: DAVE LOWE

DATE: 02.22.2023

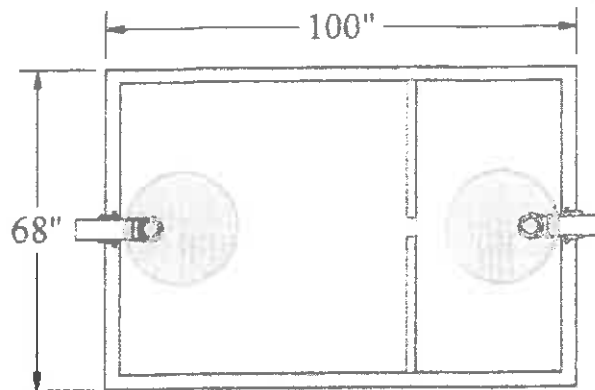




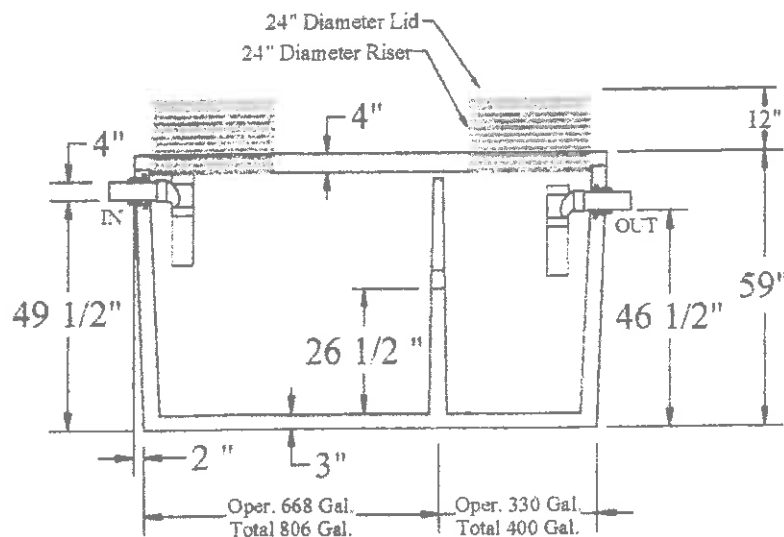
*****FIRST TANK
SEPTIC TANK*****

9200 lbs.

BODE'S
PRECAST CONCRETE



TOP VIEW



SIDE VIEW

General Notes

Standard inlet and outlet is 4" diameter - custom penetrations are available
Pipe penetrations are flexible watertight seals with clamps for pipe
Inlet and outlet tee baffles are to be 4" diameter pvc, abs or approved
Typical access holes are 24" diameter ribbed pipe with screwed watertight gasketed lids
Joint between the tank and tank top is sealed with Con-Seal CS-665 mastic rope or equal
Concrete shall be 4000 psi within 28 days
Rebar shall meet ASTM A 615 grade 60 specifications
Wire mesh shall meet ASTM A-185 grade 65 specifications
Fibermesh reinforcing shall meet ASTM C1116



BODE'S PRECAST, INC.
1861 East Pole Rd.
Everson, Wa. 98247
(360) 354-3912

1000 Gallon Septic Tank
2 Chambers

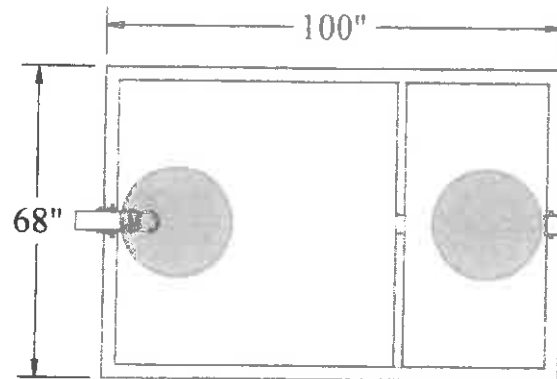
Model Number S1000-2

Date Issued November 2010

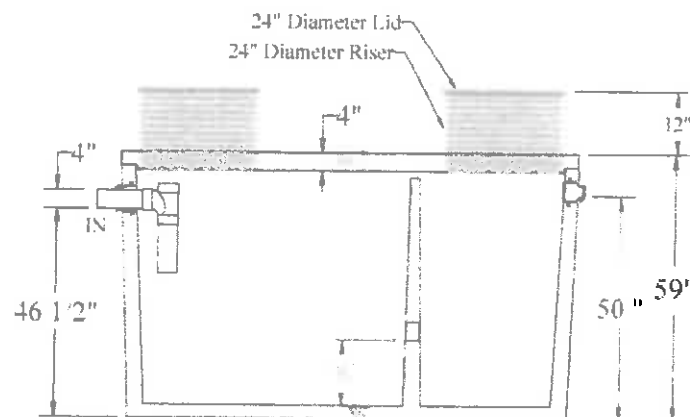


BODE'S
PRECAST CONCRETE

9200 lbs.

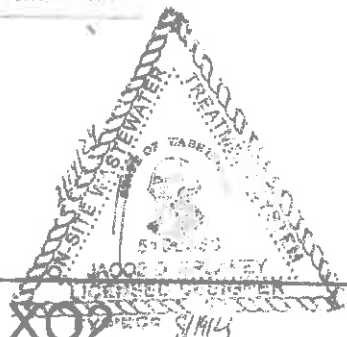


TOP VIEW



SIDE VIEW

LABEL:
Oscar XO2 Pump



BODE'S PRECAST, INC.
1861 East Pole Rd.
Everson, Wa. 98247
(360) 354-3912

Oscar XO2
1000 Gallon Discharge Tank

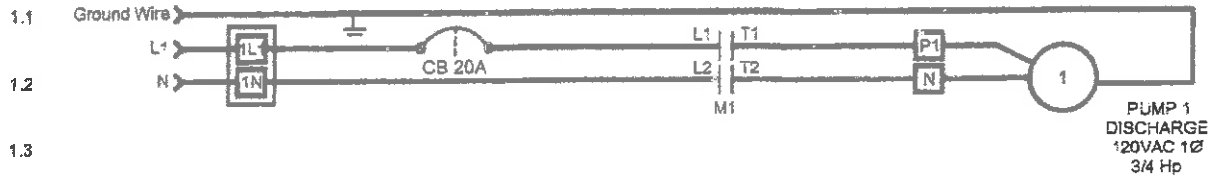
Model Number: XO2-1000-2

Date Issued: February 2023

From Main Power Panel
120 VAC, 1 Phase, 60 Hz.
Branch disconnect
provided by others.

Control Panel Wiring Diagram Model LF1P-RF-BLWR

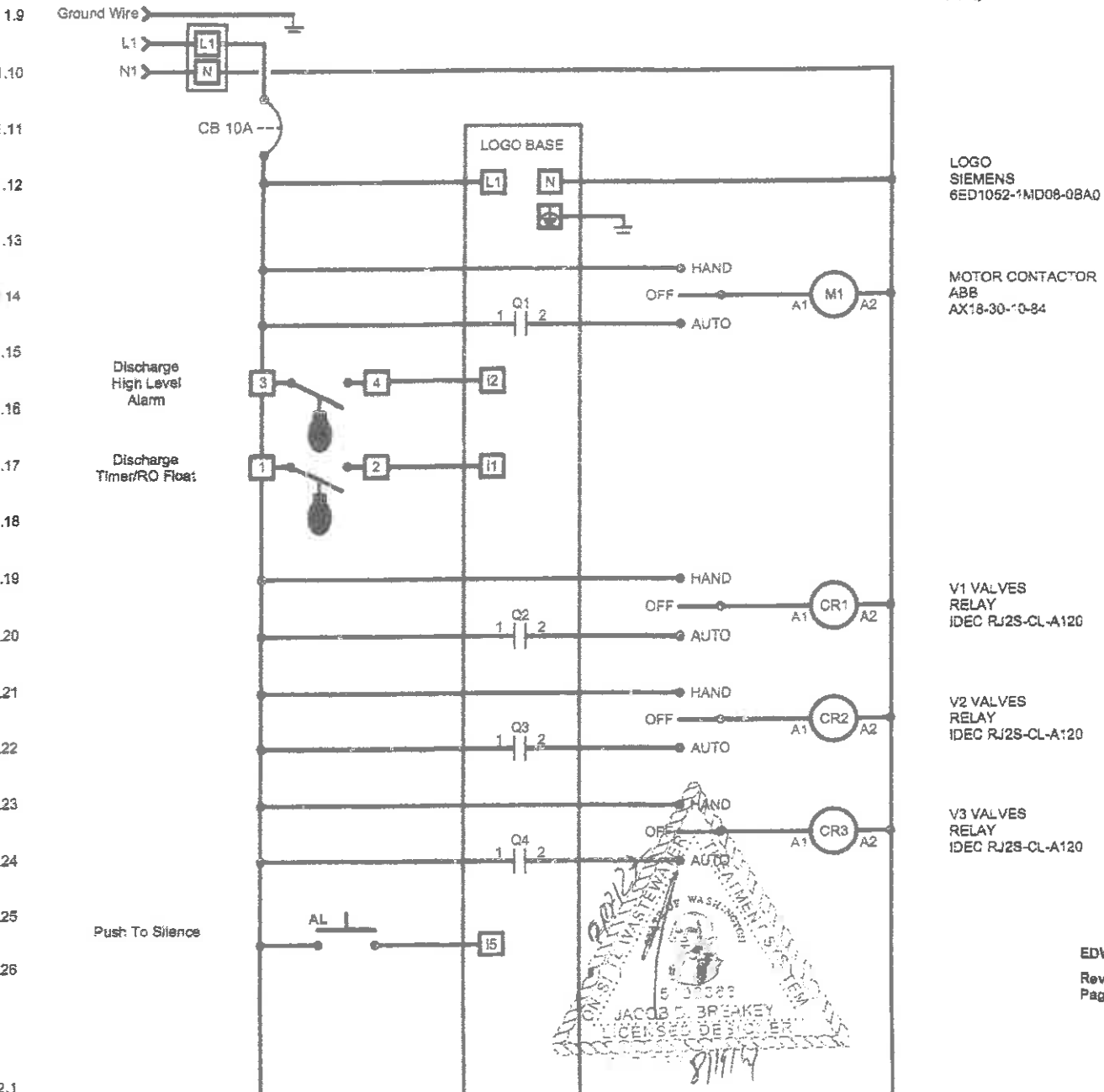
— = Factory Wire
— = Field Wire



PUMP 1
DISCHARGE
120VAC 1Ø
3/4 Hp



BLOWER
120VAC 1Ø
1/4 Hp



LOGO
SIEMENS
6ED1052-1MD08-0BA0

MOTOR CONTACTOR
ABB
AX18-30-10-84

V1 VALVES
RELAY
IDEC RJ2S-CL-A120

V2 VALVES
RELAY
IDEC RJ2S-CL-A120

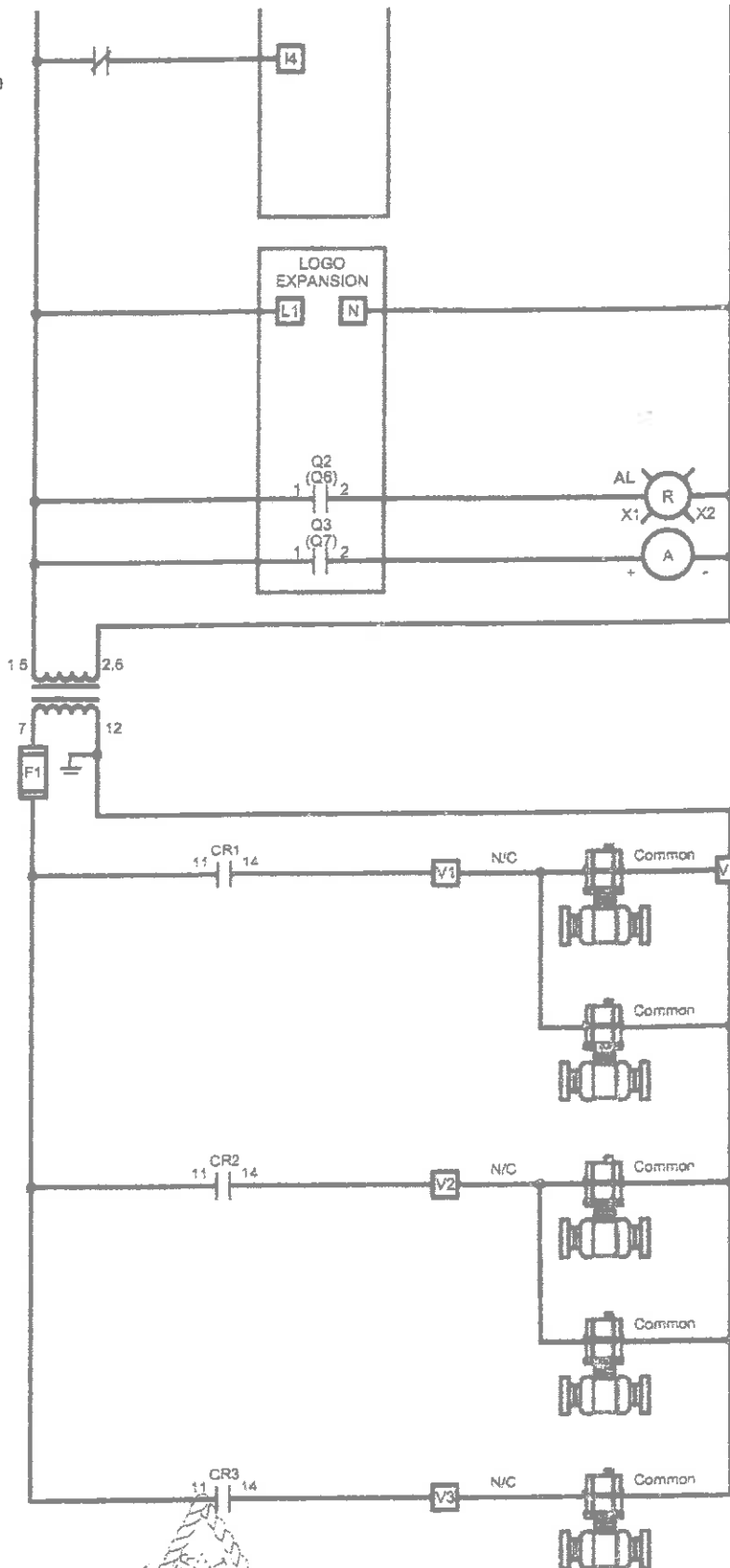
V3 VALVES
RELAY
IDEC RJ2S-CL-A120

2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
2.10
2.11
2.12
2.13
2.14
2.15
2.16
2.17
2.18
2.19
2.20
2.21
2.22
2.23
2.24
2.25
2.26
2.27

Pressure Switch
TVP117B-.7PR
(open on alarm condition)

TRANSFORMER
SIGNAL CL2-40-24
115V-24V
40VA

FUSE
2A, 230V



DM8
SIEMENS
6ED1055-1FB10-0BA1

ALARM LIGHT
SIEMENS 3SU1 SERIES

AUDIBLE ALARM
FLOYD BELL
SP-1081

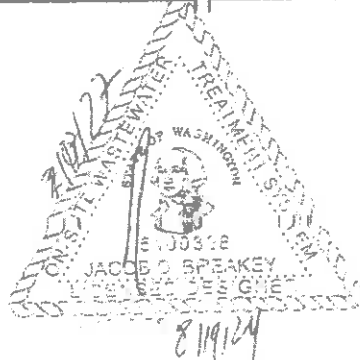
SOLENOID VALVE
S1 24VAC VALVE
PROVIDED BY OTHERS

SOLENOID VALVE 2
S2 24VAC VALVE
PROVIDED BY OTHERS

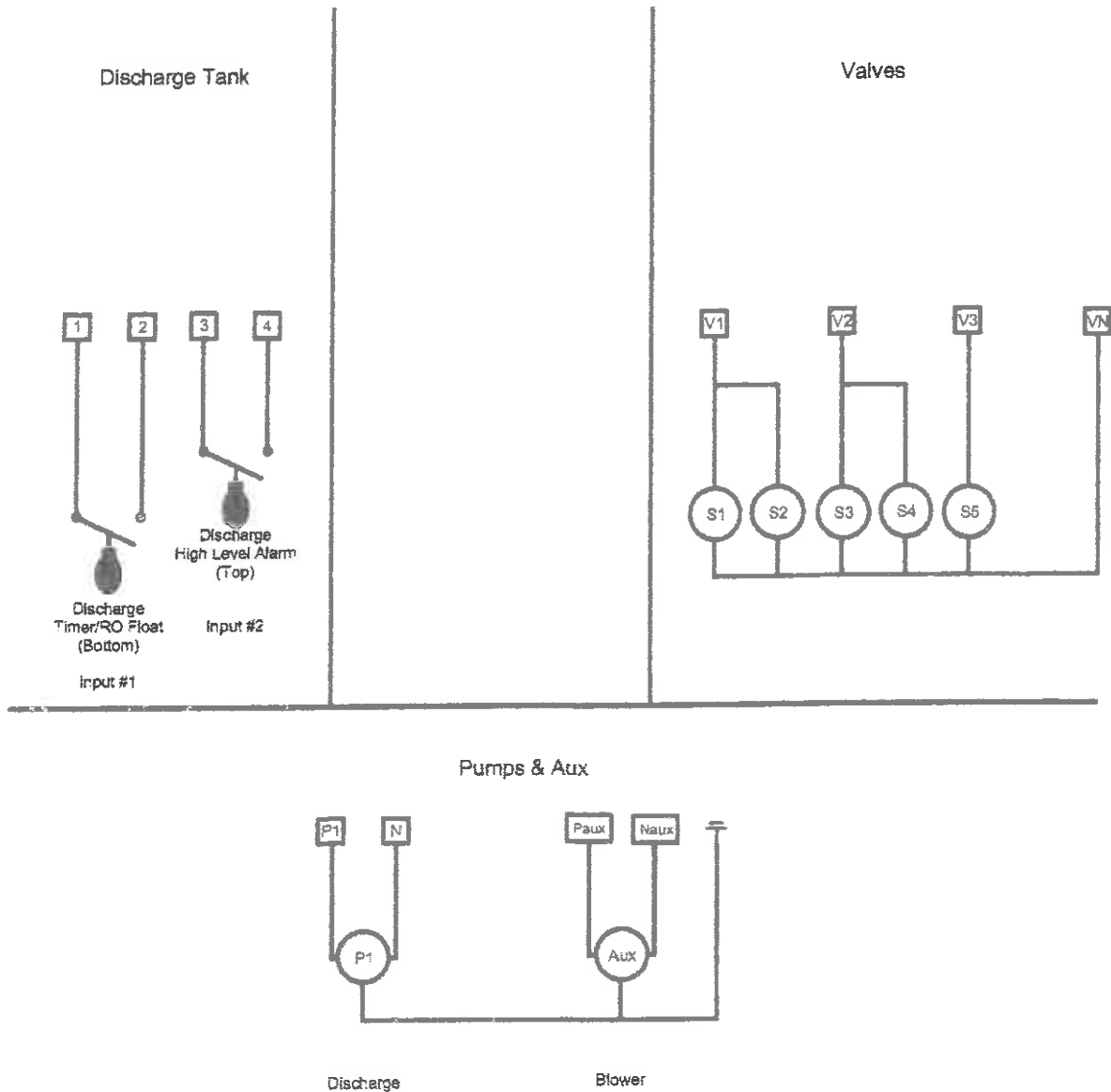
SOLENOID VALVE 3
S3 24VAC VALVE
PROVIDED BY OTHERS

SOLENOID VALVE 4
S4 24VAC VALVE
PROVIDED BY OTHERS

SOLENOID VALVE 5
S5 24VAC VALVE
PROVIDED BY OTHERS



Control Panel Connections



LF1P-RF-BLWR Operation

This PLC line of control panels includes an easy-to-use programmable logic unit that incorporates many timing and logic functions. This panel will accommodate timed dose or on-demand systems. The panel's default mode of operation is timed dose. This document describes each mode of operation.

Alarm and Data Screens:

Alarm and data screens have been included with the panel to assist with panel monitoring and troubleshooting. The following alarm and data screens have been included in your panel, look for the $\checkmark$ to determine if the screen will be displayed for timed dosed or on-demand modes. Navigation between the screens is accomplished by using the up and down arrow keys. See "Screen Navigation" section for more details.

Screen	Description
Data Screens	
1	Discharge Pump cycles at top of screen and run time beneath
2	V1 cycles at top of screen and V1 run time beneath
3	V2 cycles at top of screen and V2 run time beneath
4	V1V3 cycles at top of screen and V1V3 run time beneath

Digital Input and Digital Output Screens:

The unit will activate various inputs and outputs as it operates (see Figure 2).

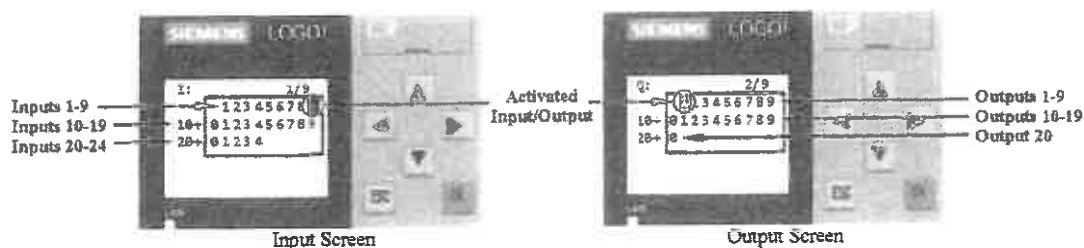


Figure 2. Input & Output Screens



Knowing what conditions cause the inputs and outputs to activate can be a helpful installation and troubleshooting tool. The input functions will vary based on the mode of operation of the panel. The following inputs and outputs have been used with your panel:

#	Functions:	Activation Conditions:
Inputs		
1	Discharge Timer Enable/RO	Float in up position
2	Discharge High Level Alarm	Float in up position
3	NA	NA
4	Pressure Switch	Pressure Switch is Closed
5	Push To Silence	Silence button is pressed
Outputs		
1	Discharge Pump	Discharge pump is called to run
2	Valve 1 & 2	Valve 1 & 2 is open
3	Valve 3 & 4	Valve 3 & 4 is open
4	Valve 5	Valve 5 is open
5	NA	NA
6	Level Alarm Light	Discharge High Level Alarm Float in the up position
7	Audible Alarm	Alarm condition exists

Screen Navigation:

The screens are arranged in the order shown in Figure 3 below. To move between screens, use the four arrow keys. The screens of interest are shown in bold. Additional built-in screens will be present, but do not contain useful information.

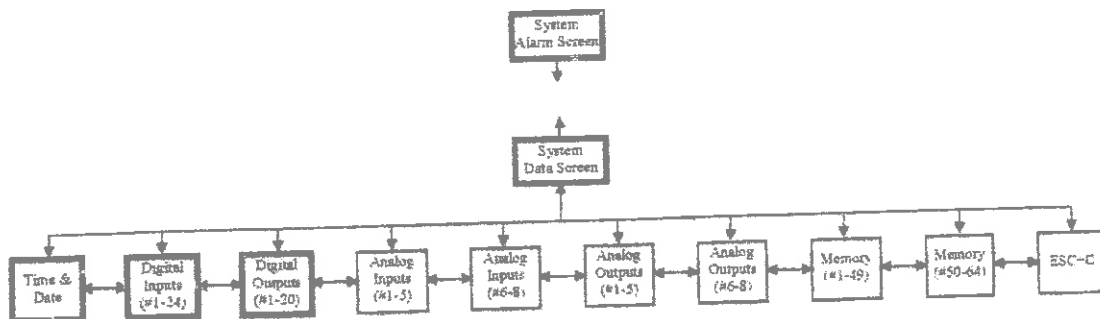


Figure 3. Screen Layout



Panel Operation:

Your control panel can perform the float functions listed below. Depending on the number of floats for your application, some functions may be omitted or combined. In addition, this panel supports drip system.

Discharge Timer Enable: This float enables the coil dose cycles (Discharge pump, valves 1 & 2). The pump and valves will continue to cycle on the timer settings (V1 Off/ V1 On) until the float is lowered. These timers will continue to cycle until the coil dose cycles equal the V1 counts.

V2 Off/ V2 On Timers: This timer will control the filter flush cycles (Discharge pump, valve 3 & 4). These timers will be enabled when the number of coil dose cycles equals the V1 count setting. These timers will continue to cycle until the filter flush cycle number equals the V2 count setting. Note: The timer will start with its off cycle.

V1V3 Off/ V1V3 On Timers: This timer will control the coil flush cycles (Discharge pump, valve 1, 2, & 5). These timers will be enabled when the number of filter flush cycles equals 1 (field adjustable) V2 counts. When the number of coil flushes equal V1V3 counts setting, the coil dose cycles (V1 Off/ V1 On) will be enabled again. Note: The timer will start with its off cycle.

Alarm light and Audible: The alarm light and audible will be activated if the Discharge alarm float is lifted or pressure switch contact opens. If the discharge alarm float is up the Discharge pump will be disabled if the Discharge pump HOA switch is in auto. The audible can be silence by pressing the push to silence button. The Alarm light will remain on until the pressure switch closes and the alarm float drops.

Pressure Switch: When this contact opens for longer than 2 seconds it will disable the Discharge pump in the auto mode.



WHATCOM COUNTY

Planning & Development Services
5280 Northwest Drive
Bellingham, WA 98226-9097
360-778-5900, TTY 800-833-6384
360-778-5901 Fax



Mark Personius, AICP
Director

Land Fill and Grade Permit Determination

TO: Tyler Green
FROM: Natural Resource Staff
DATE: 12/20/2022
SUBJECT: LFG2022-00091
Address: 14039 Chimney Lane
APN: 390708 398457 0000

Staff has reviewed the information you submitted with the Land Fill and Grade (LFG) application and have determined that the proposal is consistent with all applicable NR regulations. You are now able to conduct your building prescreen. Please submit a copy of this letter, the approved site plan (attached), and any additional information required below to the Whatcom County Planning and Development Services counter (epermits@co.whatcom.wa.us) for a building permit prescreen. This will ensure that the NR portion of your application is complete and will avoid redundant NR reviews and fees.

In the event that the plans you submit at your building permit prescreen or submittal appointment change from what was approved through this Assessment, further NR reviews and fees may be necessary.

For specific requirement questions, please contact the applicable NR staff person listed below by email or at (360) 778-5900.

Please note: This document and attachments may include appealable decisions pursuant to the applicable regulations. Please contact the reviewing staff person for additional information and associated time limitations.

Wetlands & HCA (WCC 16.16) – Choose a Planner
Determination

- The proposal is consistent with WCC 16.16.

Staff Analysis

- No wetlands or HCAs were identified

Geohazards (WCC 16.16) – Andy Wiser, L.E.G. – awiser@whatcomcounty.us
Determination

- The proposed improvements are approved in consideration of Article 3 of the Whatcom County Critical Areas Ordinance based on the following discussion:

Staff Analysis

- The subject property is located in a geologic setting that may be subject to numerous geologic hazards, including the following:

- Potentially catastrophic landslide hazards emanating from a flank-collapse of Mt. Baker or, most recently, Church Mountain.
 - Debris and boulder floods or flows that descend Glacier Creek and may potentially inundate parts of the Mt. Baker Rim Community.
 - Ashfall, Lateral Blasts, Mudflows, Pyroclastic Fallout/Flows and Lahar hazards emanating from Mt. Baker. Non-magmatic initiated lahars related to flank-collapse or seismically-induced slope failure along the flanks of Mt. Baker are also a possibility.
- The geologic and geomorphic setting of the site and surrounding vicinity has been assessed during previous reconnaissance and supplemented with desktop review and analysis of lidar imagery available for the Nooksack River and Glacier Creek Valley's.
 - Based on this limited research it appears that the subject parcel is located on a topographically-elevated hummocky plain above the Glacier Creek and Nooksack River flood plain that likely formed as a result of deposition associated with the Church Mountain Landslide.
 - Continuing fluvial erosion through the landslide deposit by Glacier Creek has resulted in a moderately incised flood plain for Glacier Creek relative to the aforementioned Church Mountain Landslide deposit. However, due to the moderately steep gradient of the Glacier Creek flood plain, as well as frequent flooding and sediment transport processes, frequent channel avulsion is inevitable and may result in significant adjustments to the present stream alignment from year to year, or storm to storm.
 - Despite the presence of active stream processes south of the subject parcel, alluvial Fan Hazards regulated pursuant to WCC 16.16.345 are not interpreted as a likely occurrence due to the elevated position of the subject parcel relative to the Glacier Creek flood plain. However, the applicant should be advised that the potential exists for less frequent but larger magnitude flood or volcanic events, which exceed the code-defined, regulated hazard event, to impact the subject parcel.
 - While the subject parcel is technically located in a regulated *potential landslide hazard area* due to the presence of steep, unstable slopes that climb to the summit of Church Mountain, Mt. Baker, and other surrounding alpine areas, pursuant to WCC 16.16.325(A) and 16.16.270 the proposed improvements are interpreted to meet reasonable use standards and are thus approved. Furthermore, *potential landslide hazards*, are regulated pursuant to the general standards of WCC 16.16.320, which are satisfied by the proposed development.
 - Regulated Volcanic Hazards pursuant to WCC 16.16.350 are also a potential at the project site. Such hazards consist of ashfall, lateral blast and pyroclastic fallout, and lahar and/or mudflows; the effects of which are generally not considered possible to mitigate with structural site design features. However, in accordance with WCC 16.16.350(E), single-family residences are permitted in volcanic hazard areas.
 - The applicant is advised to reside in an active geologic environment with caution. The Pacific Northwest Seismic Network (<http://pnsn.org/volcanoes/mount-baker>) maintains a seismograph on the west flank of Mt. Baker, and the Cascade Volcano Observatory (http://volcanoes.usgs.gov/observatories/cvo/cvo_volcano_updates.html) issues volcanic hazard warnings and evacuation orders that must be observed.

Conditions of Approval

- The project may be approved as proposed with no conditions of approval in consideration of Article 3 of the Whatcom County Critical Areas Ordinance.

Parcel 390708 398457

Nearby Property _____

	Permit	Observed
DF Size	11x36	✓
DF Location	10' from NW prop line 25' from SW prop line	✓ 42' NW of corner to H2O meter ✓
Soils/soil depth	SL-1 0-14 Brown loam 14-30 sandy loam w/ gravel SL-2 0-12 brown loam 12-31 sandy loam w/ some gravel	0-30 sandy loam color change @ 24" saturation @ 24" 0-30 sandy loam color Δ @ 28" saturation @ 28"
Slope	0%	
Water	Public	
Set Backs Property Lines Water Ditches Foundations	10' to NW prop line 25' to SW prop line	✓✓
OSS?	NO	
Property Lines?		