



BL 2133

<input type="checkbox"/> CAO <input type="checkbox"/> Works <input type="checkbox"/> DS <input type="checkbox"/> Fin/Adm	<input type="checkbox"/> Agenda <input type="checkbox"/> Reg Board <input type="checkbox"/> in Camera <input type="checkbox"/> Other Mtg	Ownership:  File #
NOV 20 2017		
<input type="checkbox"/> Ec Dev <input type="checkbox"/> IT <input type="checkbox"/> Parks <input type="checkbox"/> SEP <input type="checkbox"/> HR <input type="checkbox"/> Other	RECEIVED <input type="checkbox"/> Staff to Report <input type="checkbox"/> Staff to Respond <input type="checkbox"/> Staff Info Oly <input type="checkbox"/> Dir Mailbox <input type="checkbox"/> Dir Circulate	Ask Sent:  <input type="checkbox"/> Fax <input type="checkbox"/> Mail <input type="checkbox"/> Email

## RECEIPT OF RECORD OF SEWERAGE SYSTEM

This receipt acknowledges that the Health Authority has received a completed Record of Sewerage System for the following location:

**RECEIPT NUMBER FOR RSS FILING FEE: 359834**

**TAX ASSESSMENT ROLL NUMBER: 20-789-03554.010**

**AUTHORIZED PERSON: JAYME FRANKLIN, P.ENG.**

**CIVIC ADDRESS: 5192 HIGHWAY 97B SE, SALMON ARM**

**LEGAL DESCRIPTION: LOT 2, PLAN KAP34453, SEC 32, TWP 19, RNG 9, MER W6, KDYD**

**EFFECTIVE DATE: 15 NOVEMBER 2017**

Please note that the system work must be completed and a Letter of Certification filed with the Health Authority within two years of the effective date noted.

**EXPIRY DATE: 15 NOVEMBER 2019**

		Filing # (OFFICE USE ONLY) <b>20-789-03554.010</b>	
<b>1. Property Information</b>	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Alteration	<input type="checkbox"/> Repair
			<input type="checkbox"/> Amendment – Original Filing #
	Tax Assessment Roll # <b>789-03554.010</b>		PID # <b>002-952-297</b>
	Legal Description (Plan, Lot, District Lot, Block Numbers) <b>Lot 2 Sec 32 TP 19 R 9 W6M KDYD PL 34453</b>		
Street (Civic) Address or General Location <b>5192 97B SE</b>		City <b>Salmon Arm</b>	
<b>2. Owner Information</b>	Name of Legal Owner <b>Bill Wood</b>		Mailing Address <b>5192 HWY 97B SE</b>
	Phone <b>N/A</b>	City <b>Salmon Arm</b>	Prov <b>BC</b> Postal Code <b>V1E 2P7</b>
<b>3. Authorized Person Information</b>	Name of Authorized Person <b>Jayme Franklin, P.Eng</b>		Mailing Address <b>P.O. Box 2590, 420A</b>
	Phone <b>250.832.8380</b>	City <b>Salmon Arm</b>	Prov <b>BC</b> Postal Code <b>V1E 4R5</b>
	Registration # <b>34134</b>		Email <b>info@franklinengineering.ca</b>
<b>4. Structure Information</b>	Sewerage System Will Serve: <input checked="" type="checkbox"/> Single Family Dwelling <input type="checkbox"/> Other Structure (specify) _____ <input type="checkbox"/> Other Dwelling (specify) _____		
	The sewerage system is designed for an estimated minimum daily domestic sewage flow of (check one) <input checked="" type="checkbox"/> Less than or equal to 9,100 litres <input type="checkbox"/> More than 9,100 litres but less than 22,700 litres		
<b>5. Site Information</b>	Depth of native soil to seasonal high water table or restrictive layer (cm) <b>120</b>	Information respecting the type, depth and porosity of the soil is attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	GPS Location of System (decimal degrees) Latitude <b>50.661521</b> Longitude <b>-119.206076</b>		
	Horizontal Accuracy (m) <b>google</b> <input checked="" type="checkbox"/> Recreational GPS <input type="checkbox"/> Differential GPS		
<b>6. Drinking Water Protection</b>	Will the sewerage system be located less than 30 m from a well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	If yes, attach a professional's report and specify the intended distance _____ (m)		
	Distance of proposed sewerage system to the closest body of surface water <b>30+</b> (m)		
<b>7. System Information</b>	Sewerage treatment method <input checked="" type="checkbox"/> Type 1 <input type="checkbox"/> Type 2 <input type="checkbox"/> Type 3		
<b>8. Legal or Regulatory Considerations</b>	<input checked="" type="checkbox"/> Construction of the proposed sewerage system will not conflict with legal instruments registered on the property.		Is this filing submitted as the result of an order from the Health Authority? <input type="checkbox"/> Yes (attach a copy of the order) <input checked="" type="checkbox"/> No
<b>9. Plot Plan and Specifications</b>	Plot Plan (to scale) and specifications are attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	<input checked="" type="checkbox"/> The plans and specifications are consistent with Standard Practice Source of Standard Practice: <input checked="" type="checkbox"/> Ministry of Health Standard Practice Manual <input type="checkbox"/> Other		
<b>10. Authorized Person's Signature</b>	Signature (email submission does not require a signature)		OFFICE USE ONLY Filing/Accepted Date <b>15 NOV 2017</b> Receipt Number <b>354834</b>
	Date <b>27/10/2017</b>		



## Columbia Shuswap Regional District

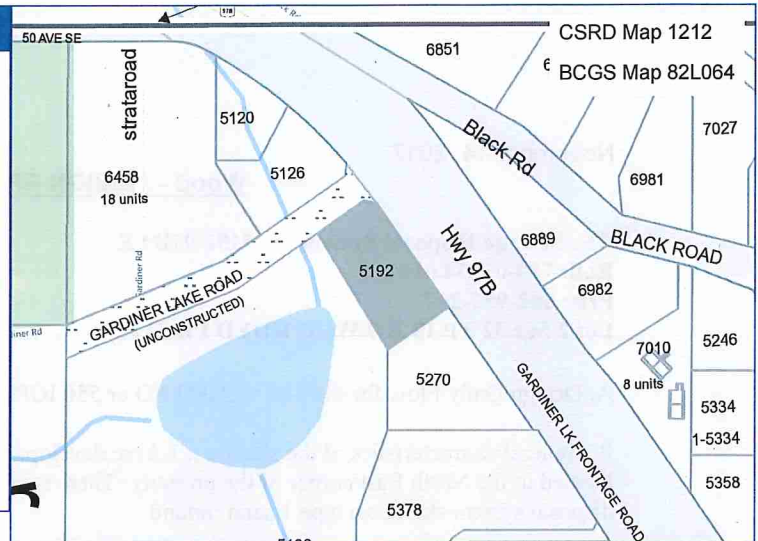
555 Harbourfront Dr. NE, Salmon Arm, BC V1E 4P1  
Phone: 250.832.8194 | Fax: 250.832.3375  
Web: www.csr d.bc.ca | E-Mail: inquiries@csr d.bc.ca

## Property Report

Parcel Number (PID): 002-952-297  
ID Parcel: drcp0062  
Report Date: 10/4/2017

### Property Details

Address: 5192 Hwy 97B  
PID: 002-952-297  
Roll: 78903554010  
Electoral Area: D  
Local Area: Ranchero  
Ownership: Private  
Zoning: Bylaw 2100: CR - Country Residential  
OCP: Bylaw 750: RR - Rural Residential  
Lakes Zoning: No Lakes Zoning  
GIS Lot Size: 0.40 HA | 0.99 Acres \*  
Taxable Value: \$278,000  
Percent in ALR: 0



\* Lot size is approximate. Refer to the legal plan to obtain the official size. Contact the CSR D if there is a discrepancy between the CSR D lot size data and another authority.

### Legal Description

Legal Plan:	34453	Section:	32	Land District:	Kamloops
District Lot:		Township:	19	Freeform:	L 2 SEC 32 TP 19 R 9 W OF THE 6TH MERIDIAN KAMLOOPS DIVISION YALE
Block:		Range:	9		DISTRICT PL 34453
Lot:	2	Meridian:	6		

### BCAA - Property Details

Roll Number: 78903554010  
Roll Year: 2017  
Assess Area: 20 - Vernon  
Jurisdiction: 789 - Salmon Arm Rural  
Neighbourhood: 910 - Deep Creek  
Regional District: 08 - Columbia Shuswap  
Electoral Area: D  
School District: 83  
Hospital District: 03  
Use Category: 000 - Single Family Residence  
Actual Use: 000 - Single Family Dwelling  
Manual Class: 0041 - 1 1/2 Sty Sfd - All Ages - Substd  
Tenure: 01 - Crown-Granted

### BCAA - Minor Taxing

Defined Area	Deep Creek Transit,Ranchero/Deep Ck Refuse Disp,Ranchero/Deep Creek Fire Dept
Specified-Regional	
Service Area	Cemetery Op Service,Deep Creek Transit,Okan-Koot Sterile Insect,Okanagan Regional Library,Shuswap Watershed
Improvement District	
Local Community	

### BCAA - Valuation

Taxable	\$278,000
Exempt	\$0
Net Taxable Value	\$278,000

### BCAA - Sales History

Current Sale	\$0	2013
First Previous	\$350,000	2011
Second Previous	\$25,000	2001

**FRANKLIN ENGINEERING LTD.**

PO Box 2590, 420A 4<sup>th</sup> Street NE  
Salmon Arm, BC V1E 4R5  
Phone 250.832.1690

November 14, 2017

**Wood - DESIGN BRIEF**

**RE: Sewage Disposal System for 5192 97B SE**  
**Roll: 789-03554.010**  
**PID: 002-952-297**  
**Lot 2 Sec 32 TP 19 R 9 W6M KDYD PL 34453**

A. Design Daily Flow for the Site = 2500 LPD or 550 IGPD based on 7 bedroom home.

B. General characteristics of the site are a 1 Acre developed lot with a 7 bedroom home. The disposal field will be located to the North East corner of the property. There is adequate field area available and as soils are fair, the disposal system shall be a type 1 sand mound.

C. Soil Profile #1:

- 0mm - 200mm - Silt Loam, organics, brown, weakly cemented, dry
- 200mm - 600mm - Loamy sand with fair structure and consistency, no gravels or cobble, light brown, extremely compacted, dry.
- 600mm - 1500mm - Course sand with a poor structure and consistency, no gravels or cobble, medium brown, firm, moist.
- 1500mm - Ground water appears.
- Permeameter Test - KFS = 1530

D. Soil Profile #2:

- 0mm - 200mm - Silt Loam, organics, grey, weakly cemented, dry.
- 200mm - 600mm - Loamy sand with fair structure and consistency, no gravels or cobble, light brown, extremely compacted, dry.
- 600mm - 1500mm - Course sand with poor structure and consistency, no gravels or cobble, medium brown, firm, moist.
- 1500mm - Ground water appears.
- Permeameter Test - KFS = 1710

E. Due to the Loamy sand soil type with a fair structure and consistency category as per table II-22 and II-23 of the SPMV3 we have determined a soil permeability of 1000-2000 KFS and a Type 1 infiltration area loading rate of 30 L/day/m<sup>2</sup>. We will be using mound sand with a loading rate of 40 L/day/m<sup>2</sup>.

F. Pre-treatment consists of an existing 500 IGAL septic tank and a new 1250 IGAL Leko Precast concrete tank with 1/16" effluent filter. A 48" Leko Precast concrete pump chamber will follow for dosing.

G. Distribution System consists of 4 pressurized laterals placed on a sand bed, each 86' long, totaling 344'. The laterals are to consist of infiltrators to ensure adequate volume and ease of installation. The infiltrators are to have drilled pipe installed to optimize even distribution.

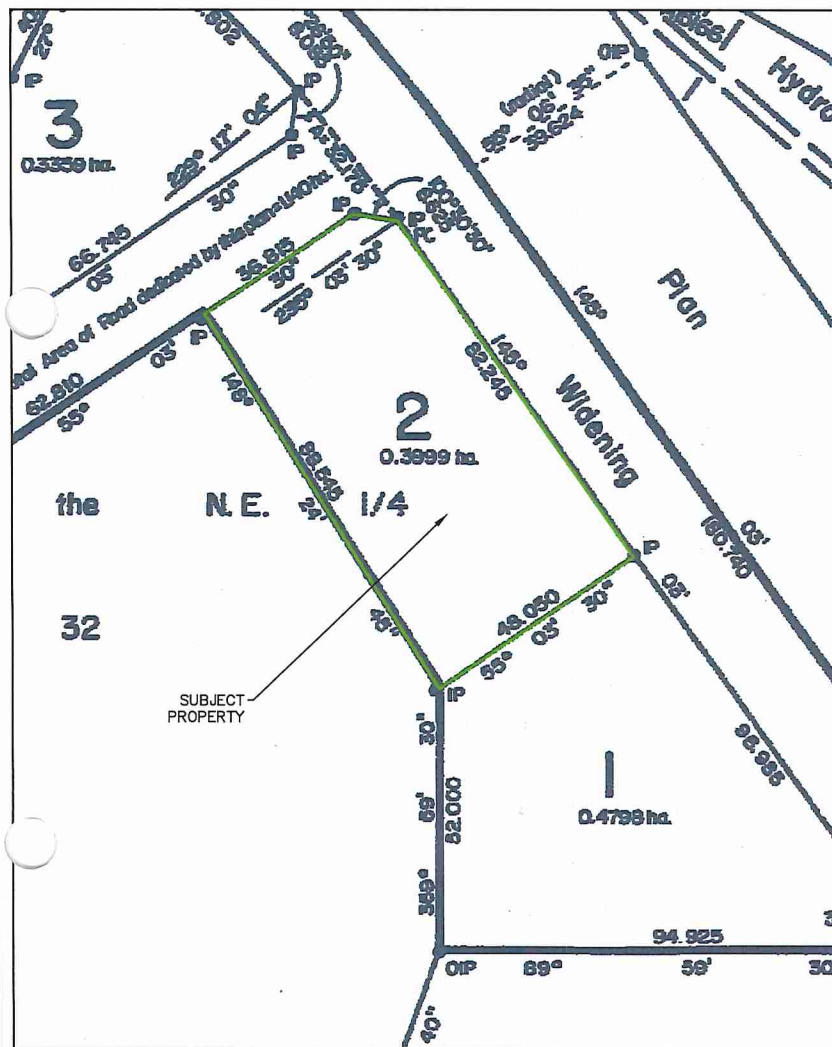
H. Storm Water Management: Drawing Notes address requirements for any drainage to be diverted away from the treatment system and disposal area.

Jayne Franklin, P.Eng.  
Franklin Engineering Ltd.



**Job No. 17-110-S**





BILL OF MATERIALS*		
DESCRIPTION	MODEL	QTY
1 Leko Precast Septic Tank	1250 lgal	1
2 Leko Precast Pump Chamber Assembly	42"	1
3 Infiltrators	Quick4 E.Q. 36	63
4 Infiltrator Posilock End Caps - 6.25" Invert	Quick4 E.Q. 36	8
5 Hydrotech Index Valve	4404	1
6 40mm (1.5") Male Adapter	SCH40	1
7 50mm (2") - 40mm (1.5") Bushing	SCH40	1
8 50mm (2") PVC Pipe	SCH40	9m (30')
9 50mm (2") PVC 45° Elbows - soc. x soc.	SCH40	23
10 50mm (2") PVC Cap - soc.	SCH40	6
11 50mm (2") PVC Union	SCH40	5
12 50mm (2") PVC Drilled Pipe	SCH40	60m (198')
13 50mm (2") PVC Pipe	SCH40	12m (40')
14 50mm (2") PVC Union	SCH40	1
15 50mm (2") PVC 90° Elbows - soc. x soc.	SCH40	2
16 100mm (4") PVC Pipe	CSA Sewer Grade	6m (20')
17 Polylok Effluent Filter Assembly 1/16"	EF-6	1
18 Poly-Loc Orifice Shields	1.5"	4
19 Valve Box-Irrigation Boxes	6" Round	12
20 ** Effluent Pump	Shel50	1
21 Transducer	TRN-XX	1
22 Aquaworx Control Panel	Simplex IPC	1

\* Materials List is a guide only. Actual material amounts may differ.

\*\* ELEVATION FROM PUMP CHAMBER  
TO INDEX VALVE TO BE CONFIRMED  
BEFORE PUMP SELECTION.

#### Dose Pump Panel Settings\*

Norm ON	=	1	minutes	0	seconds
Norm OFF	=	60	minutes	0	seconds
Veto ON	=	1	minutes	0	seconds
Veto OFF	=	30	minutes	0	seconds
High	=	30.1	inches from bottom of bell		
Veto Level	=	20.1	inches from bottom of bell		
Start	=	3.6	inches from bottom of bell		
S Warn	=	Do NOT Change			
Z-bias	=	as marked on the transducer bell			
Auto Clear	=	1 (one) dose			

\*Settings to be confirmed after pump draw down test

SEWAGE DISPOSAL SYSTEM FOR:  
L 2 Sec 32 Tp 19 R 9 W6M KDYD PL 34453  
ASSESSMENT ROLL NUMBER:  
789-03554.010

#### GENERAL NOTES:

1. THE TANK SHALL BE LOCATED TO PROVIDE A MIN. OF 2 % FALL FOR ALL GRAVITY SEWER DRAINS.
2. ROOF DRAINAGE SHALL BE DIVERTED AWAY FROM TREATMENT SYSTEM AND THE DISPOSAL AREA.
3. THE DISPOSAL AREA SHALL BE COVERED TO PROVIDE SURFACE DRAINAGE AND BE PROPERLY SEEDDED OR SODDED TO PREVENT EROSION, AND PROPERLY MAINTAINED. HERBACEOUS PLANTS SUCH AS WILDFLOWERS AND GRASSES ARE GOOD CHOICES FOR PLANTING. GRASSES ARE ESPECIALLY DESIRABLE DUE TO THEIR FIBROUS ROOT SYSTEMS WHICH HOLD THE SOIL IN PLACE.
4. SHALLOW ROOTED SHRUBS SUCH AS CEDARS MAY BE PLANTED ON THE SIDE SLOPE OR AT THE TOE OF THE DISPOSAL AREA.
5. EFFLUENT FILTER TO BE CLEANED EVERY SIX MONTHS OF USE.
6. INDEXING VALVE TO BE CHECKED ANNUALLY.
7. LATERALS TO BE FLUSHED PRIOR TO USE, AFTER THE FIRST YEAR, AND THEN EVERY TWO YEARS OR AS PER MAINTENANCE PROVIDER.
8. TANK TO BE PUMPED OUT EVERY 3-5 YEARS OR AS DEEMED NECESSARY BY SERVICE PROVIDER.
9. WATER CONDITIONER, WATER SOFTENER, HOT TUB, OR SWIMMING POOL DISCHARGE CANNOT BE FLUSHED INTO THE SEWAGE TREATMENT SYSTEM.

#### DESIGN CALCULATIONS:

- A. PEAK DAILY DESIGN FLOW = 2500 LPD (550 l/gpd) BASED ON A 7 BEDROOM HOUSE.
- B. DISPOSAL AREA CONSISTS OF 4 LATERALS PLACED SIDE BY SIDE ON A SAND BED. EACH LATERAL CONSISTS OF 21 INFILTRATOR QUICK4 36 CHAMBER = 86' (26m) INCLUDING END CAPS, TOTALING 344' (105m) FOR THE ENTIRE FIELD.
- C. INFILTRATION AREA PEAK HYDRAULIC LOADING RATE = 40 L/M<sup>2</sup>
- D. BASAL AREA PEAK HYDRAULIC LOADING RATE = 11.7 L/M<sup>2</sup>
- E. DOSE = 24 PER DAY AT 104L PER DOSE



Jayme Franklin, P.Eng.  
250.832.8380

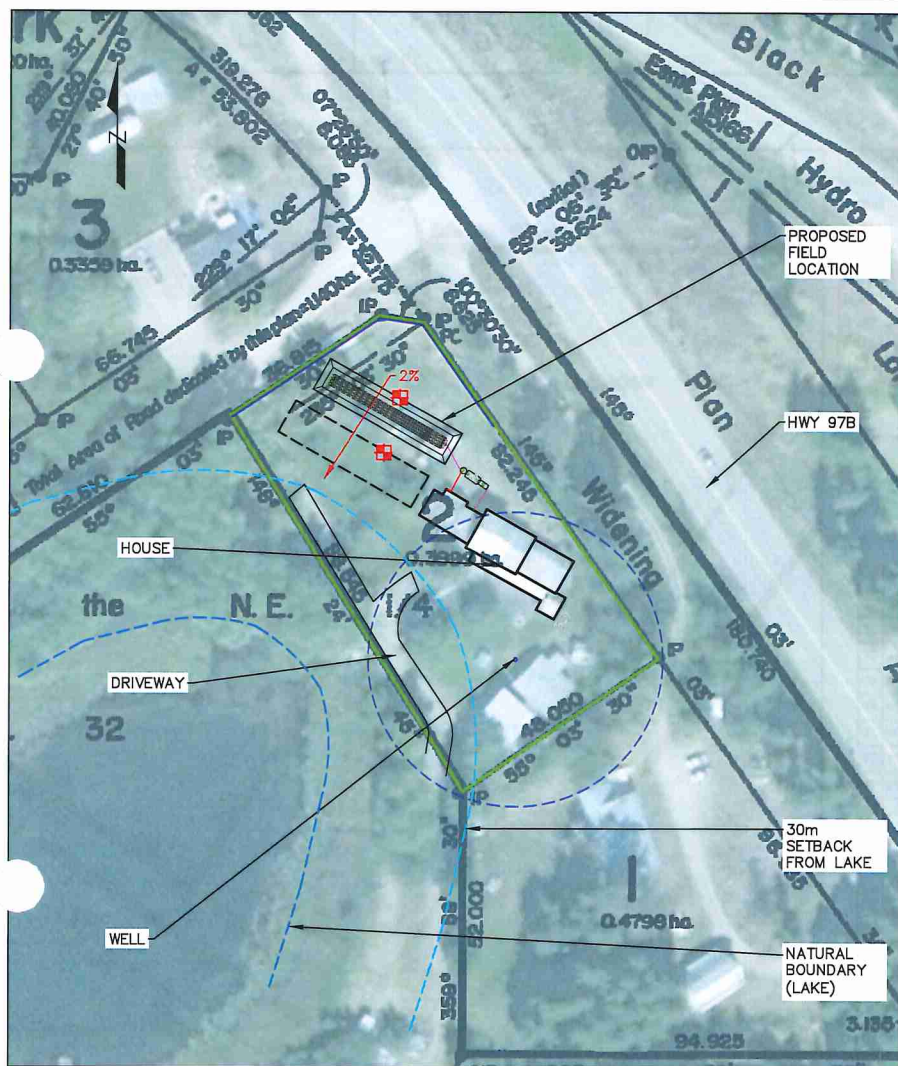
DRAWING NO. 17-110-01

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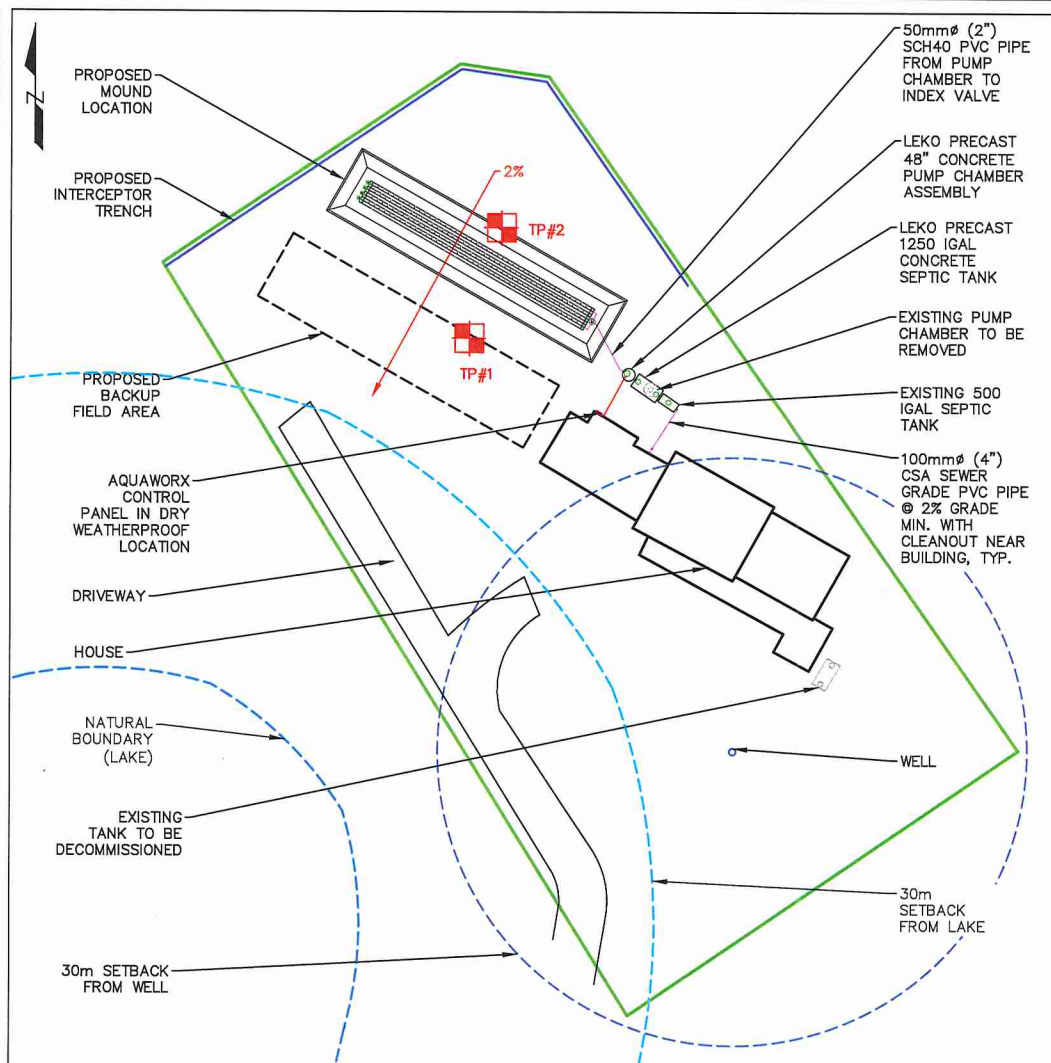
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SYSTEM LOCATION  
SCALE: 1:1000



SYSTEM LOCATION  
SCALE: 1:200

CLIENT: BILL WOOD  
5192 HWY 97B SE

PROJECT: 17-110-S  
SEWERAGE SYSTEM

TITLE: SITE PLAN AND SYSTEM LOCATION

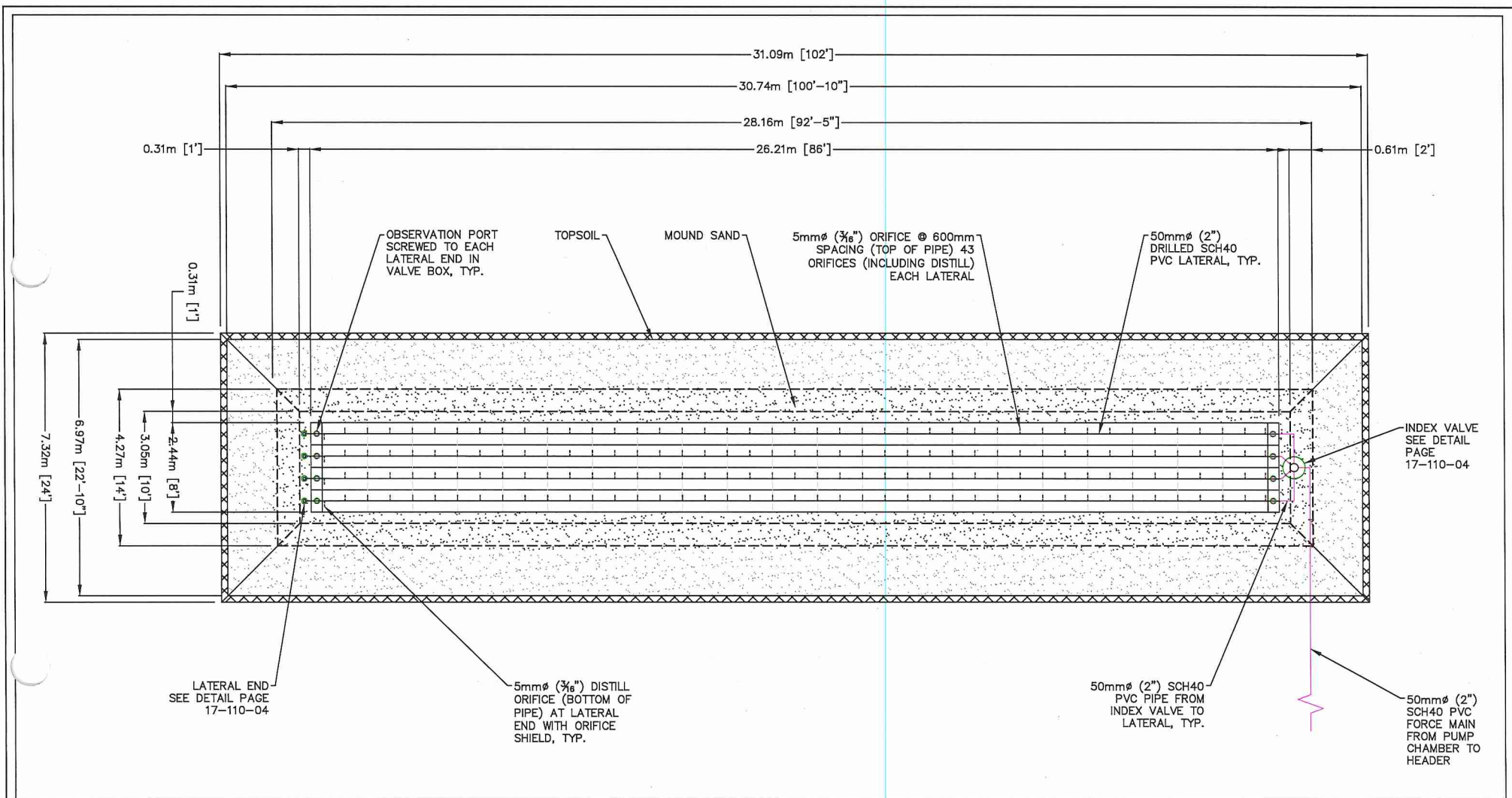
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250.832.8380  
DRAWING NO. 17-110-02





**SAND MOUND PLAN**  
SCALE 1:100

CLIENT: BILL WOOD  
5192 HWY 97B SE

PROJECT: 17-110-S  
SEWERAGE SYSTEM

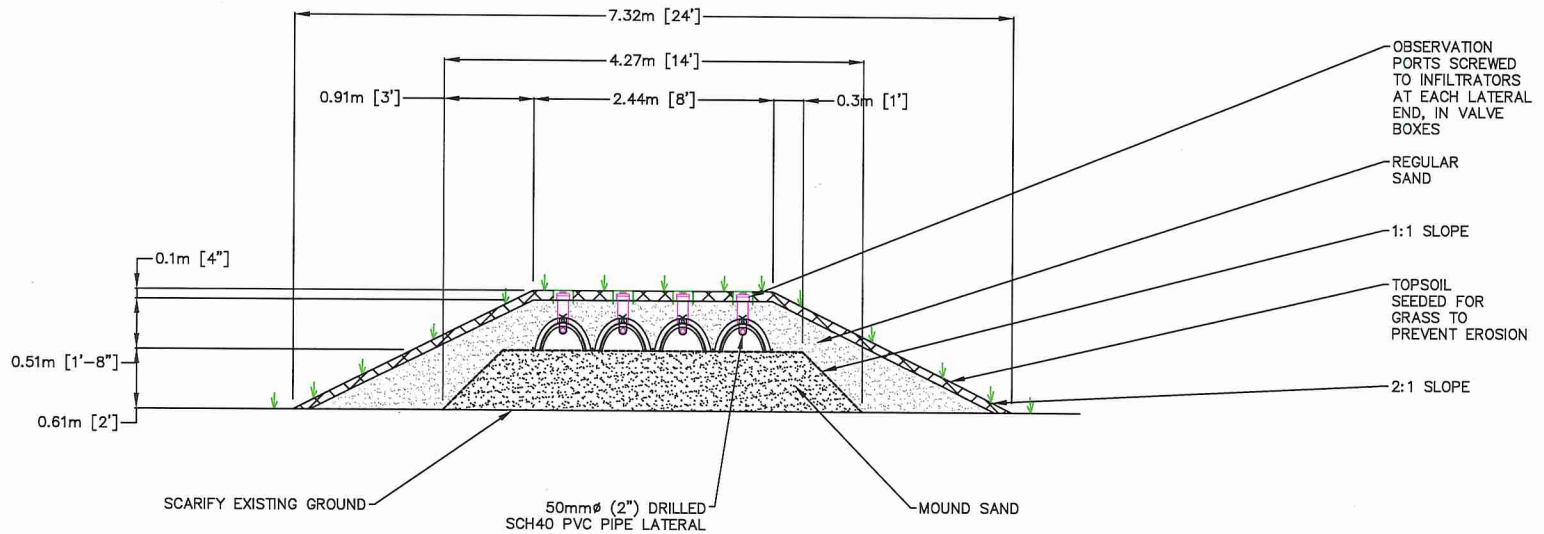
TITLE: DISPOSAL FIELD DETAILS

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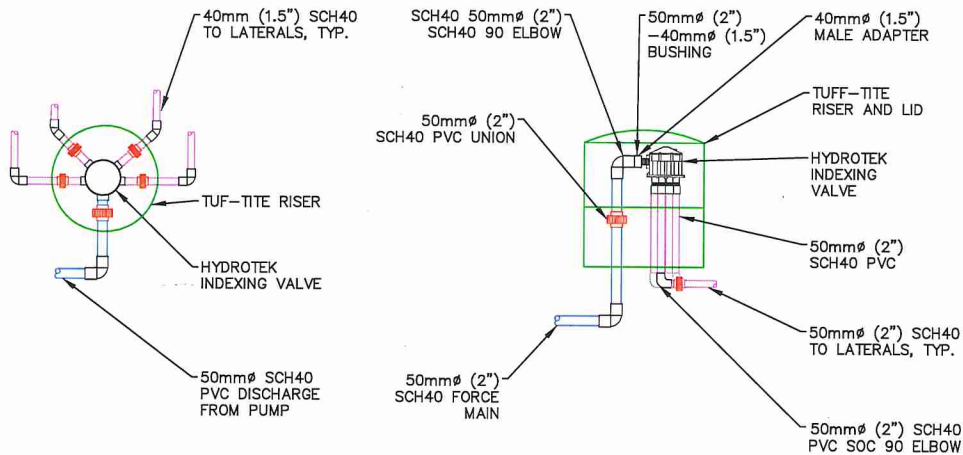


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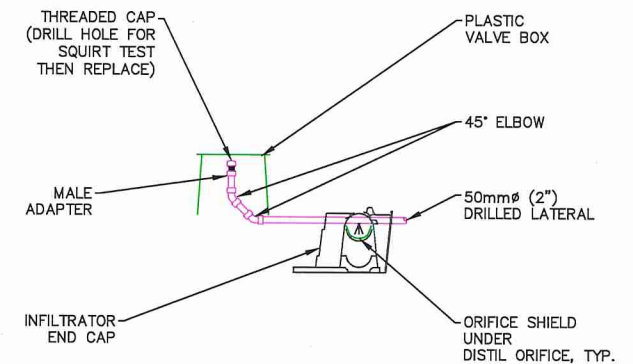


SAND MOUND SECTION  
SCALE 1:50

- INDEXING VALVE AND UNIONS INSTALLED IN 24" TUF-TITE RISERS, C/W S.S. SCREWS AND LID.
- RISERS BURIED AND FILLED WITH A PLASTIC BAG OF FOAM CHIPS.
- INDEXING VALVE **MUST** BE THE HIGHEST POINT IN THE SYSTEM FOR CORRECT OPERATION



INDEX VALVE DETAIL  
SCALE 1:25



LATERAL END DETAIL  
SCALE 1:25

CLIENT: BILL WOOD  
5192 HWY 97B

PROJECT: 17-110-S  
SEWERAGE SYSTEM

TITLE: DISPOSAL FIELD DETAILS

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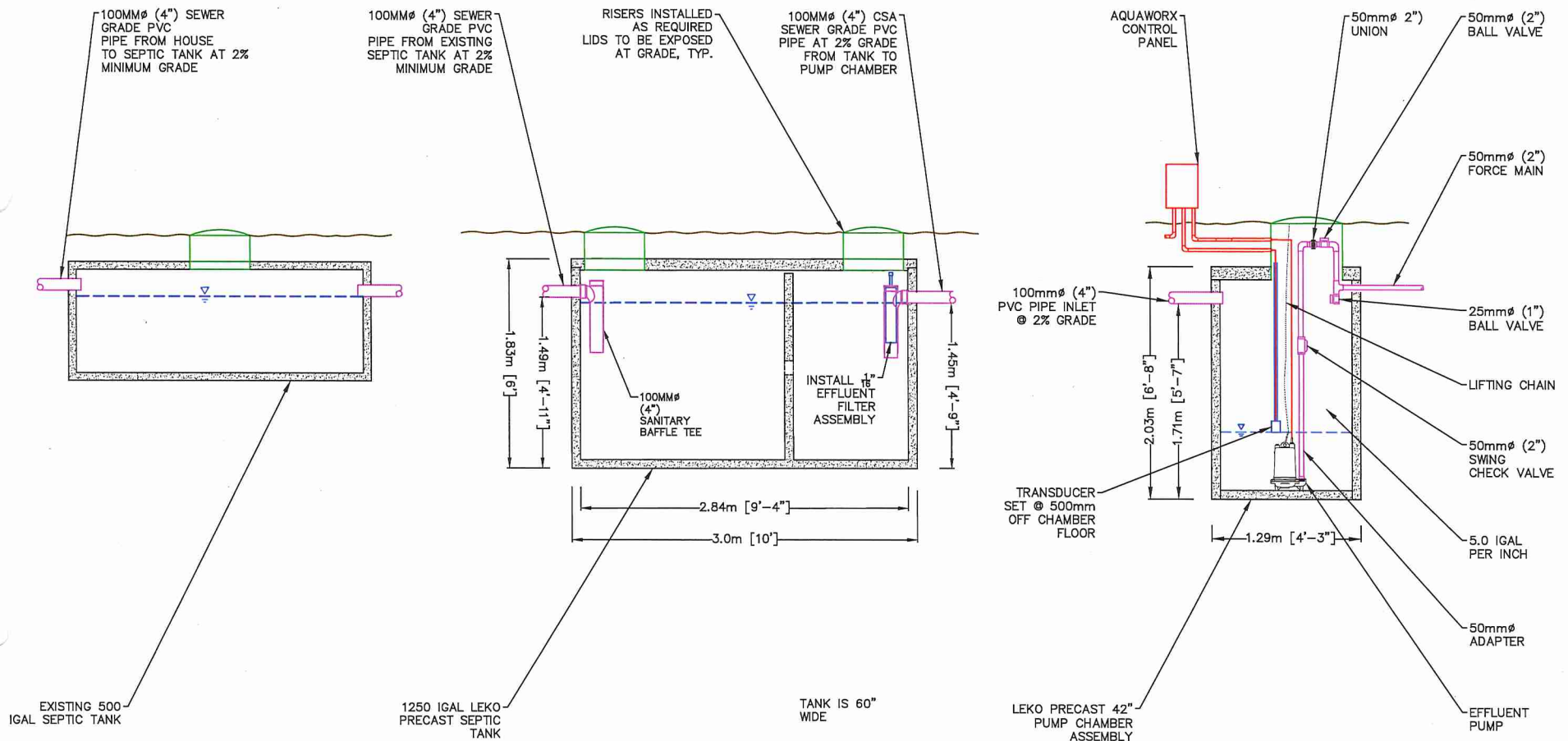
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DRAWING NO. 17-110-04





SEPTIC TANK DETAILS  
SCALE: 1:35

CLIENT: BILL WOOD 5192 HWY 97B SE	PROJECT: 17-110-S SEWERAGE SYSTEM	TITLE: DISPOSAL FIELD DETAILS	THIS DRAWING IS NOT FOR CONSTRUCTION UNLESS SO SEALED. © FRANKLIN ENGINEERING LTD.	0	14/Nov/2017	ISSUED FOR IHA FILING	 <div> <b>FRANKLIN</b> ENGINEERING LTD. Jayme Franklin, P.Eng. 250.832.8380 DRAWING NO. 17-110-05 </div>
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