Interior Health
Every person matters

LETTER OF CERTIFICATION RECEIVED

This is to confirm that a Letter of Certification was received and accepted by the Health Authority for the following on-site sewerage disposal system:

DATE OF ACCEPTANCE: AUGUST 31, 2018

TAX ASSESSMENT ROLL NUMBER: 20-789-10647.035

CIVIC ADDRESS: 3797 KENWOOD GATE, SCOTCH CREEK

LEGAL DESCRIPTION: LOT F, PLAN KAP 72803, SEC 33, TWP 22, R 11, W6M, KDYD

AUTHORIZED PERSON: JAYME FRANKLIN, P. ENG.

Please retain this confirmation for your records and provide a copy to the appropriate parties.

Interior Health

SEWERAGE SYSTEM LETTER OF CERTIFICATION

Filing #	Folio or PID #	Date (dd/mm/yyyy)
	20-789-10647.035	31/08/2018

Civic Address: 3797 Kenwood Gate, Scotch Creek

Legal Description: Lot F, Plan KAP72803, Section 33, Township 22, Range 11, M6W, KDYD

The construction of the proposed sewerage system on the above property was completed on:	Date (dd/mm/yyyy) 07/08/2018

This system was installed:

	Name	Registration #
☑ By or under the supervision* of a professional	Jayme Franklin P. Eng	34134
☐ By a Registered Onsite Wastewater Practitioner Installer	Name	Registration #
☐ By the property owner under the supervision* of	Name	Registration #

I am an "Authorized Person" as defined in the Sewerage System Regulation "BC Reg. 326/2004."

The signature and seal of the undersigned on this document certifies that:

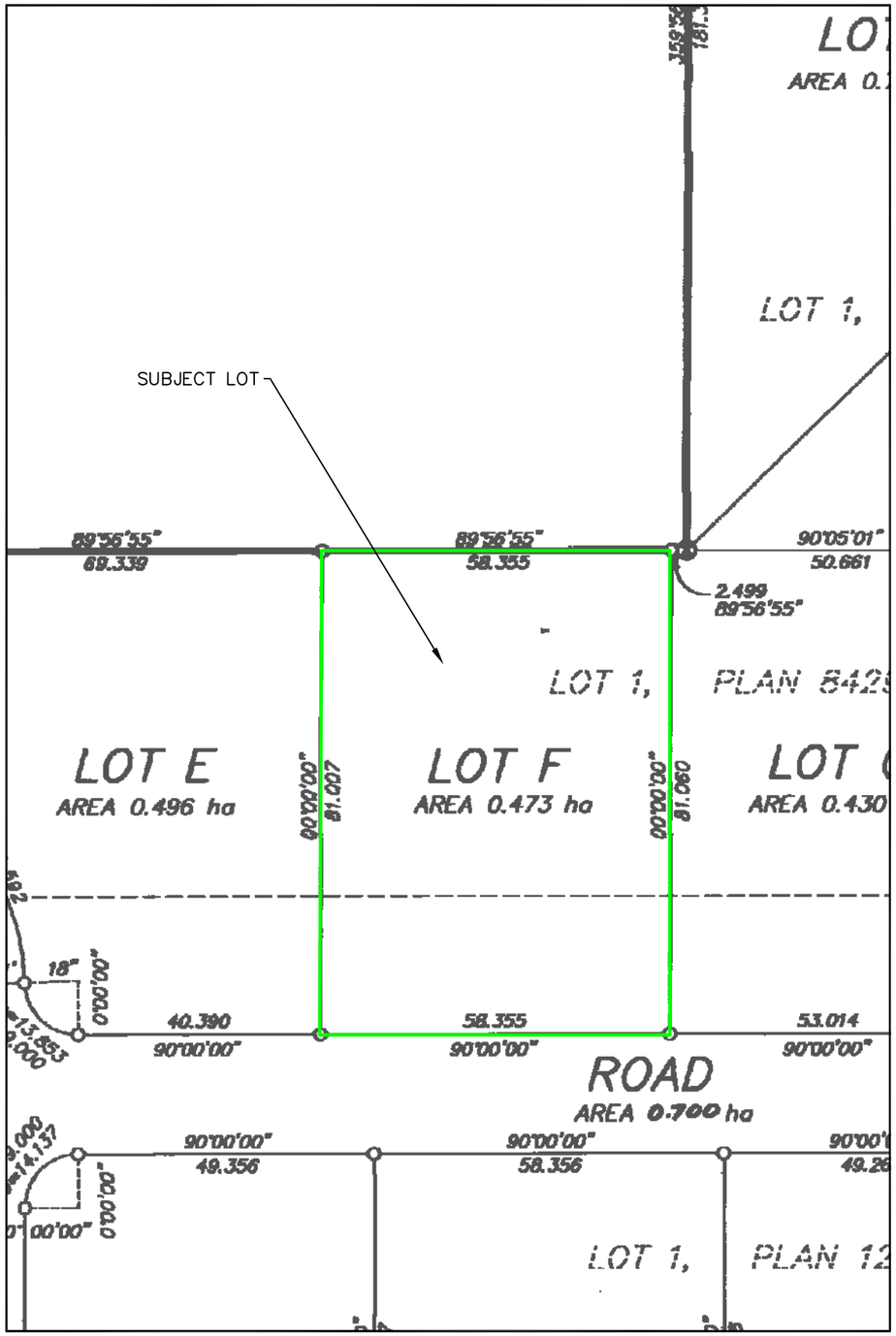
1. The Owner has been provided with:
   - ☑ A copy of the sewerage system plans and specifications as filed with the Health Authority;
   - ☑ A maintenance plan for the sewerage system that is consistent with standard practice;
   - ☑ A copy of this Letter of Certification as filed with the Health Authority;
2. The sewerage system has been constructed in accordance with standard practice as indicated in the Sewerage System Filing Form filed on 07/06/2018 (dd/mm/yyyy);
3. The sewerage system has been constructed substantially in accordance with the plans and specifications filed with the Health Authority;
4. The estimated daily domestic sewage flow through the sewerage system will be less than 22,700 liters;
5. If operated and maintained as set out in the maintenance plan, the sewerage system will not cause or contribute to a health hazard.

* Where the authorized person is a professional, "supervision" means conducting field reviews of the construction of the above system that the professional in his or her professional discretion considers necessary to ascertain whether the construction substantially complies with the plans and specifications filed with the Health Authority.

Appended to this document is a plan of the sewerage system as it was built and a copy of the maintenance plan.

Name (please print) Jayme Franklin P. Eng	**Health Authority Use Only**
Signature	
Authorized Person's Seal	

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA # 34134



LEGAL PLAN
1:2500

NOTE:
THIS DRAWING IS PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS SO SEALED AND NOTATED BELOW.

BILL OF MATERIALS*

	DESCRIPTION	MODEL	QTY
1	Concrete Septic Tank with baffles	1000 igal	1
2	Concrete Septic Tank with baffles	800 igal	1
3	Leo Precast Pump Chamber Assembly	42"	1
4	Poly-Lok Distrubution Box	7 Hole with Riser	1
5	Tuf-tite Speed Levelers	SL-3	4
6	Infiltrators	QuickEQ-36	68
7	Infiltrator End Caps	QuickEQ-36	8
8	76mm (3") Ø PVC 90° Elbows - soc. x soc.	CSA Sewer Grade	3
9	76mm (3") Ø PVC Cap - soc.	CSA Sewer Grade	4
10	76mm (3") Ø PVC Pipe	CSA Sewer Grade	15m (50')
11	76mm (3") Ø PVC Perforated Pipe	CSA Sewer Grade	83m (272')
12	100mm (4") Ø PVC Pipe	CSA Sewer Grade	62m (200')
13	100mm (4") Ø PVC Screw Caps - soc.	CSA Sewer Grade	8
14	Effluent Filter	1/16"	1
15	Effluent Pump	.45HP Liberty Pump	1
*	Materials List is a guide only. Actual material amounts may differ. Does Not include pre tank collection.		

FINAL COMMISSION AND REVIEW
1. SYSTEM INSTALLED AS PER PLANS
2. EFFLUENT FILTER INSTALLED

SEWAGE DISPOSAL SYSTEM FOR:
LOT F, PLAN KAP72803, SECTION 33, TOWNSHIP 22, RANGE II, MW6, KDYD
ASSESSMENT ROLL NUMBER:
20-789-10647.035

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 SEEDED 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. DISTRIBUTION BOX AND SPEED LEVELERS TO BE CHECKED ANNUALLY.
7. TANKS TO BE PUMPED OUT EVERY 3-5 YEARS OR AS DEEMED NECESSARY BY SERVICE PROVIDER.
8. 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 = 1825 LPD (400 IGPD) BASED ON 5 SEASONAL RV HOOKUPS.
B. DISPOSAL AREA CONSISTS OF 4 LATERALS PLACED IN SAND LINED TRENCHES SPACED 6 FEET APART. EACH LATERAL CONSISTS OF 17 INFILTRATOR QUICK4 EQUALIZER 36 CHAMBERS = 68' (21M), TOTALING 272' (83M) FOR THE ENTIRE FIELD.
C. PUMP DOSE 6 TIMES PER DAY EQUALING 304L PER DOSE INTO GRAVITY DRAIN LINES.
D. INFILTRATION AREA PEAK HYDRAULIC LOADING RATE = 40 L/M^2

INSPECTION SCHEDULE:
1. PRE-CONSTRUCTION MEETING
2. AFTER EXCAVATION - PRIOR TO SAND INSTALLATION
3. FIELD INSTALLATION COMPLETE - PIPE INSTALLED (PRIOR TO BACKFILL/LATERAL COVERAGE)

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
34134

FRANKLIN ENGINEERING LTD.

Jayme Franklin, P.Eng.
250.832.8380

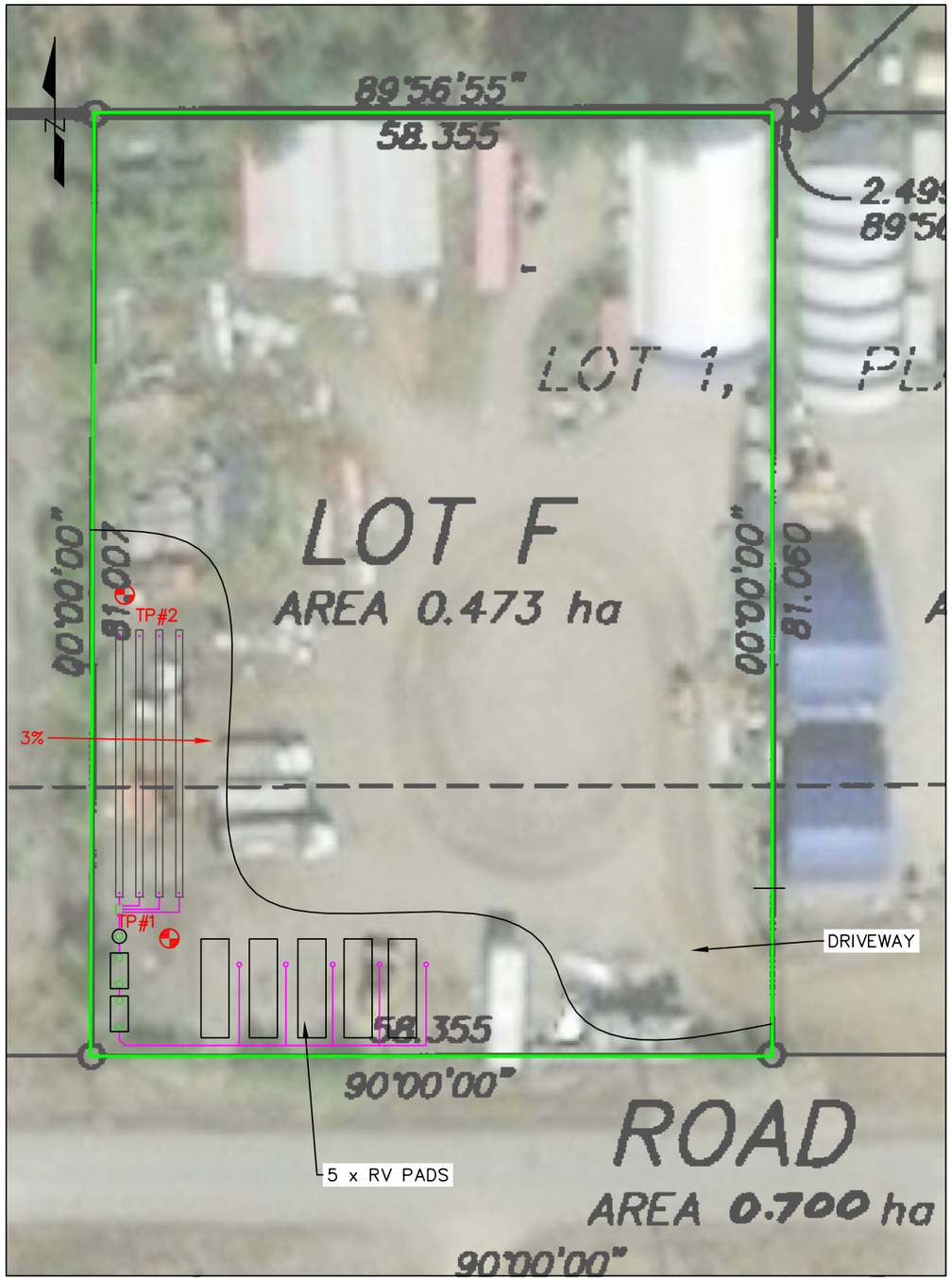
DRAWING NO. 09-045-01

CLIENT: RONA
3797 KENWOOD GATE

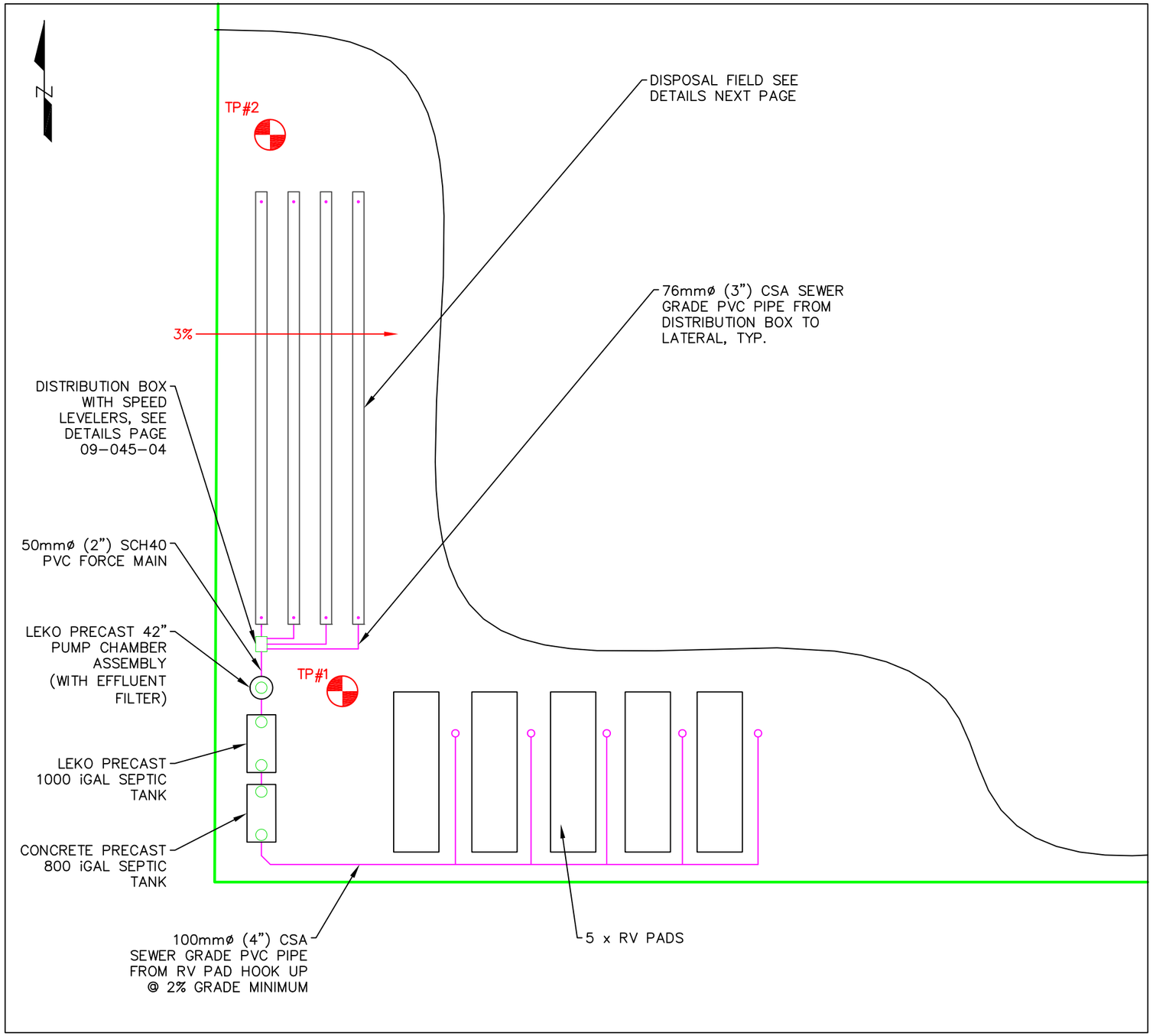
PROJECT: 09-045-S
SEWERAGE SYSTEM

TITLE: PLOT PLAN & GENERAL NOTES

2	31/AUG/2018	ISSUED FOR RECORDS
1	07/JUN/2018	ISSUED FOR CONSTRUCTION
0	06/JUN/2018	ISSUED FOR RSS



SYSTEM LOCATION
SCALE: 1:500



SYSTEM LOCATION DETAILS
SCALE: 1:250

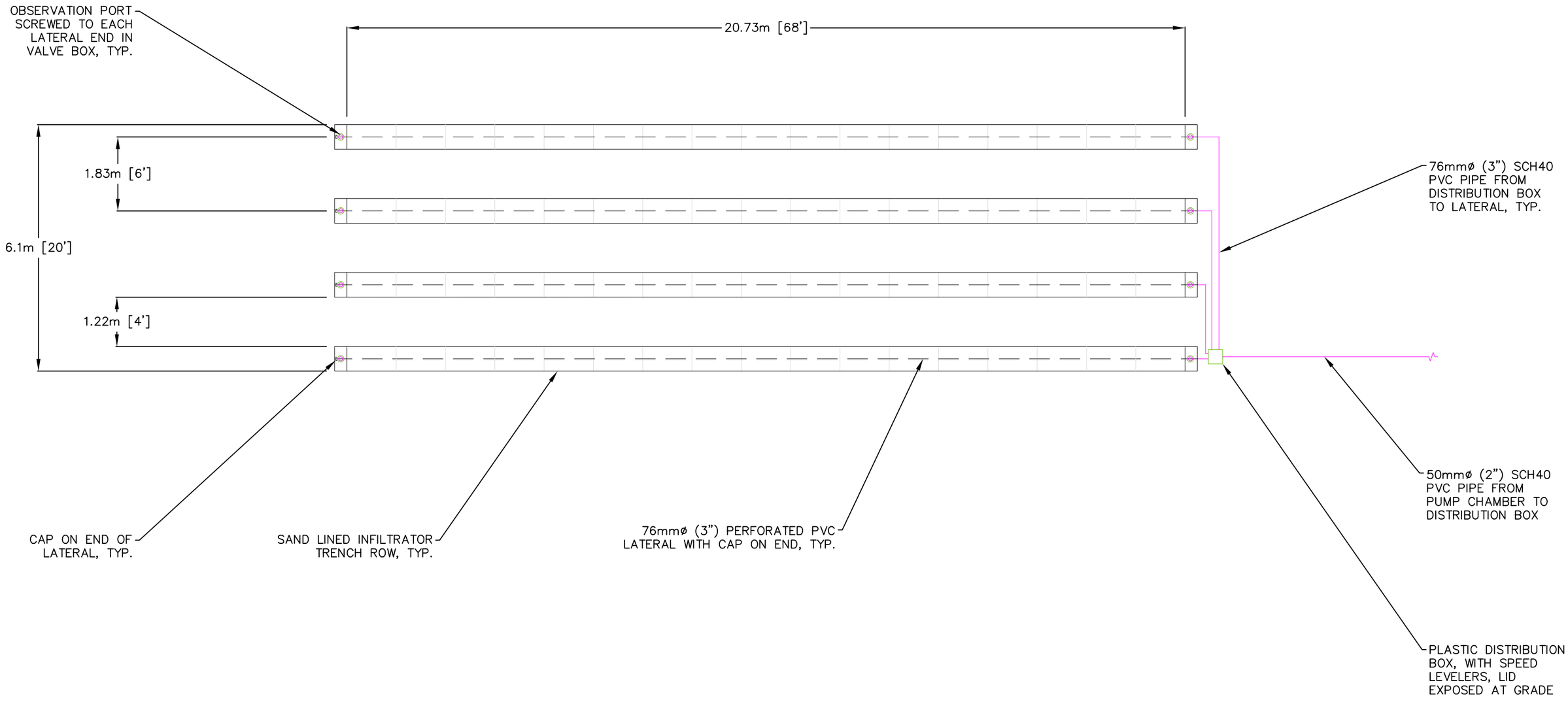
CLIENT: RONA, 3797 KENWOOD GATE	PROJECT: 09-045-S, SEWERAGE SYSTEM	TITLE: SITE PLAN AND SYSTEM LOCATION	THIS DRAWING IS NOT FOR CONSTRUCTION UNLESS SO SEALED. © FRANKLIN ENGINEERING LTD.	2	31/AUG/2018	ISSUED FOR RECORDS
				1	07/JUN/2018	ISSUED FOR CONSTRUCTION
				0	06/JUN/2018	ISSUED FOR RSS

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — # 34134

FRANKLIN ENGINEERING LTD.

Jayme Franklin, P.Eng.
250.832.8380

DRAWING NO. 09-045-02



TRENCH PLAN
SCALE 1:100

CLIENT: RONA 3797 KENWOOD GATE	PROJECT: 09-045-S SEWERAGE SYSTEM	TITLE: DISPOSAL FIELD DETAILS	THIS DRAWING IS NOT FOR CONSTRUCTION UNLESS SO SEALED. © FRANKLIN ENGINEERING LTD.	2	31/AUG/2018	ISSUED FOR RECORDS
				1	07/JUN/2018	ISSUED FOR CONSTRUCTION
				0	06/JUN/2018	ISSUED FOR RSS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA # 34134

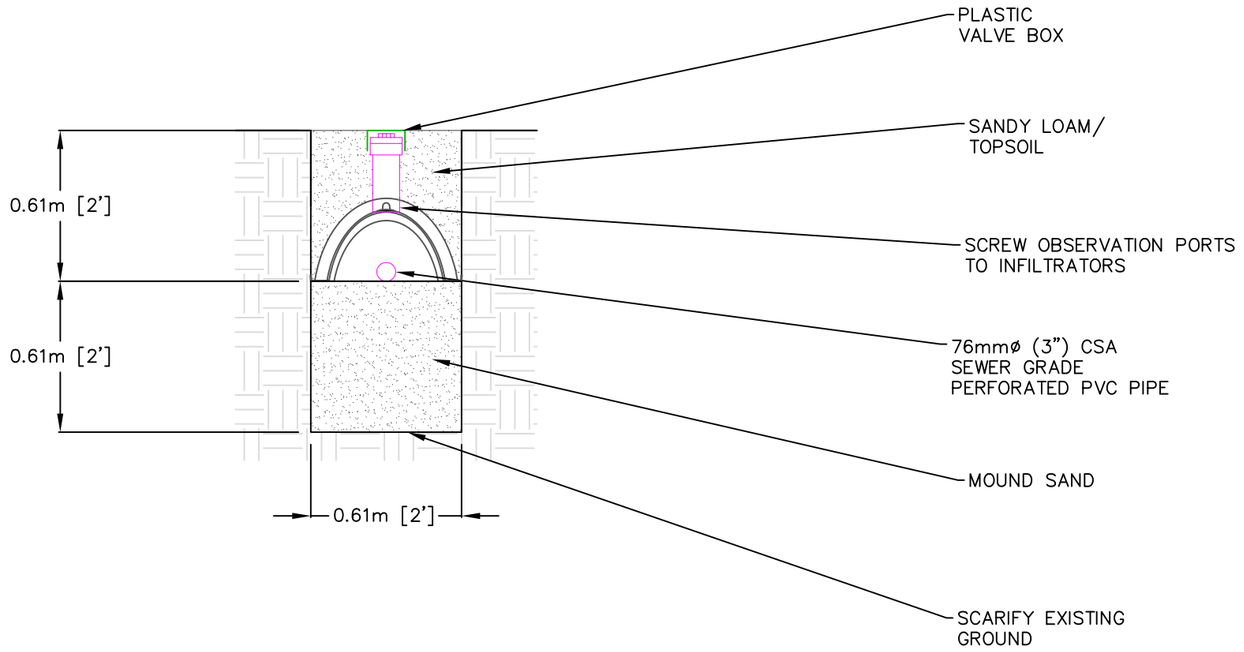
FRANKLIN ENGINEERING LTD.

Jayme Franklin, P.Eng.
250.832.8380

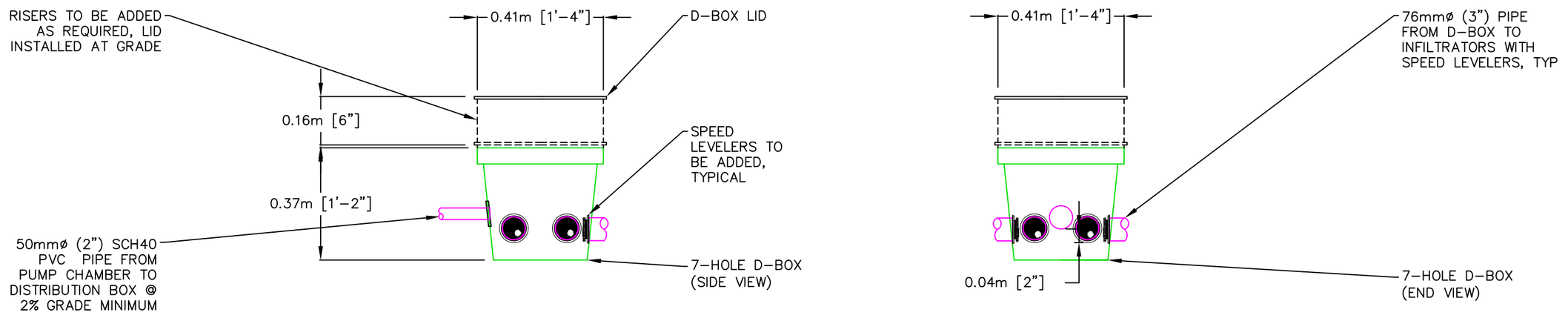
DRAWING NO. 09-045-03

BACKFILLING NOTES:

1. PERF. PIPE TO BE EXACTLY LEVEL THROUGH OUT LATERAL.
2. FILL SIDEWALLS WITH NATIVE MATERIAL BY HAND. BE SURE TO COVER ALL LOUVERS.
3. PACK DOWN THE FILL BY WALKING ALONG THE EDGES OF THE TRENCH.
4. BACKFILL TOP WITH NATIVE SOIL, ENSURE ALL ROCKS AND COBBLES HAVE BEEN REMOVED.



TRENCH SECTION
SCALE 1:25



DISTRIBUTION BOX DETAIL
SCALE 1:15

CLIENT: RONA 3797 KENWOOD GATE	PROJECT: 09-045-S SEWERAGE SYSTEM	TITLE: DISPOSAL FIELD DETAILS	THIS DRAWING IS NOT FOR CONSTRUCTION UNLESS SO SEALED. © FRANKLIN ENGINEERING LTD.	2	31/AUG/2018	ISSUED FOR RECORDS
				1	07/JUN/2018	ISSUED FOR CONSTRUCTION
				0	06/JUN/2018	ISSUED FOR RSS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA # 34134

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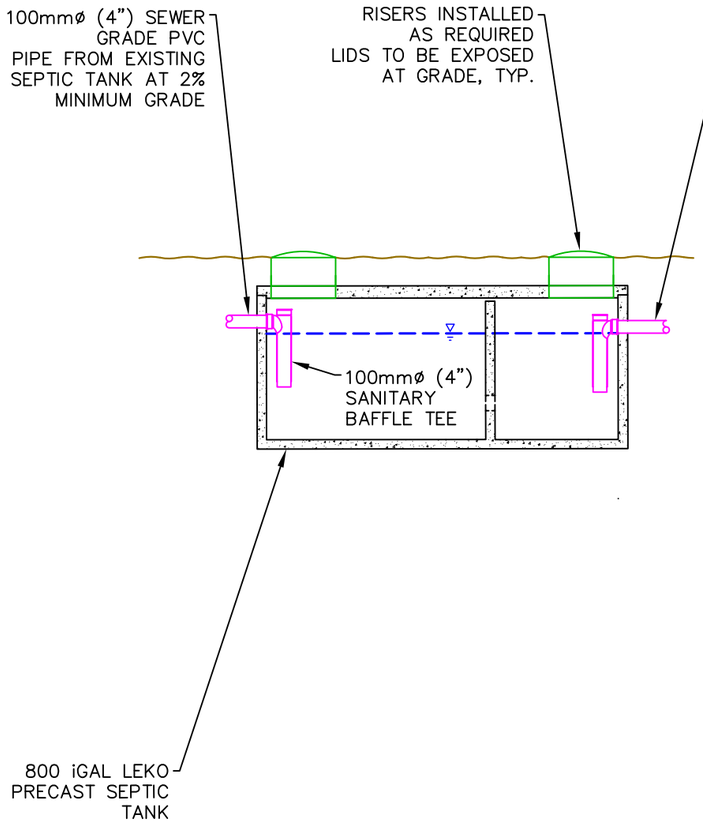
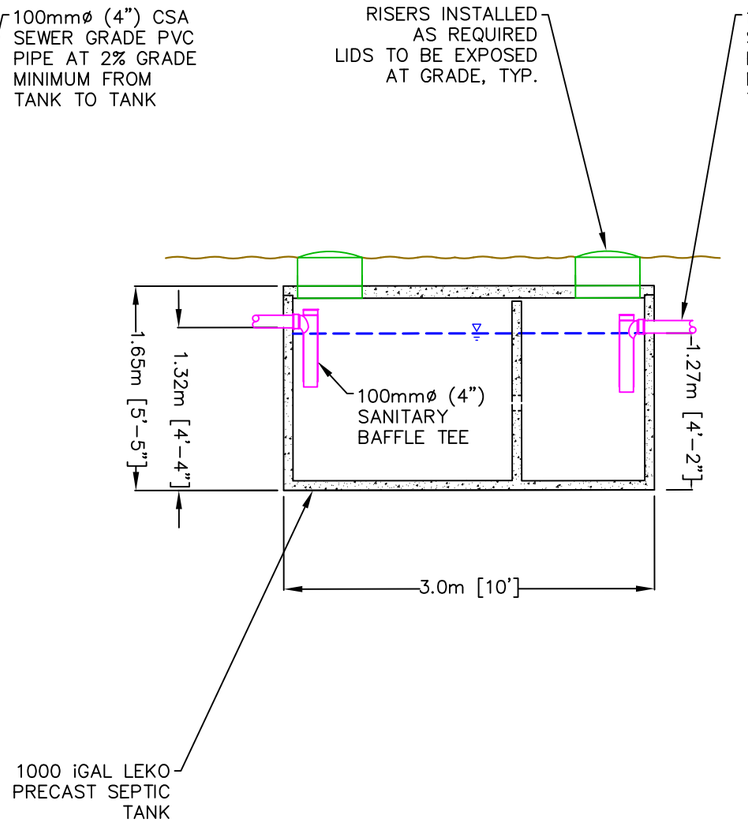
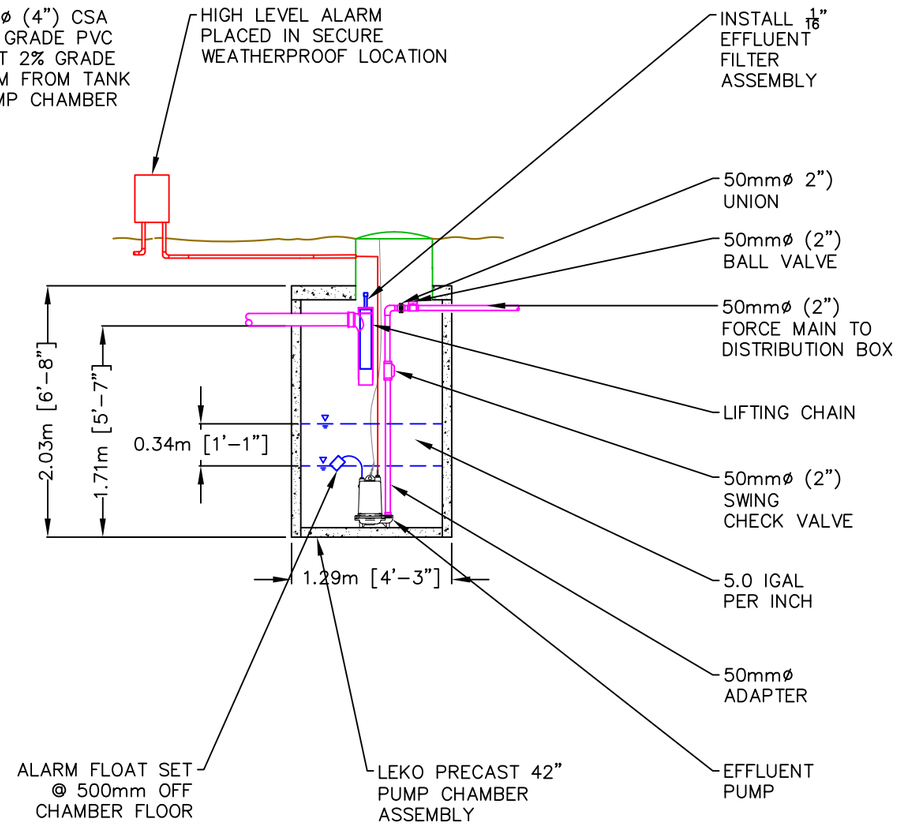
Jayme Franklin, P.Eng.
250.832.8380

DRAWING NO. 09-045-04







SEPTIC TANK DETAILS
SCALE: 1:50

CLIENT: RONA 3797 KENWOOD GATE	PROJECT: 09-045-S SEWERAGE SYSTEM	TITLE: DISPOSAL FIELD DETAILS	THIS DRAWING IS NOT FOR CONSTRUCTION UNLESS SO SEALED. © FRANKLIN ENGINEERING LTD.	2	31/AUG/2018	ISSUED FOR RECORDS
				1	07/JUN/2018	ISSUED FOR CONSTRUCTION
				0	06/JUN/2018	ISSUED FOR RSS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA # 34134

FRANKLIN ENGINEERING LTD.
Jayme Franklin, P.Eng.
250.832.8380
DRAWING NO. 09-045-05

Rona - MAINTENANCE PLAN

August 31, 2018

RE: Sewage Disposal System for: 3797 Kenwood Gate

Roll #:20-789-10647.035

Lot F, Plan KAP72803, Section 33, Township 22, Range 11, M6W, KDYD

Your On-Site Wastewater Treatment System consists of a Type 1 treatment system achieved with Septic Tank pre-treatment followed by a pump chamber to lift to a gravity fed disposal area with a distribution box and speed levelers. The disposal area consists of 4 laterals spaced 6 feet apart in sand lined trenches. The maximum allowable average Daily Design Flow during any 30 day period for this system is 1825L (400 iGAL).

Please follow this Maintenance Plan and associated guidelines to ensure the system can perform as it is intended to and meets all the requirements of the Ministry of Environment and the Interior Health Authority.

1. Disposal Field shall be maintained to provide surface drainage away from the area.

2. Do not Park, drive, or pile snow on the Disposal Area.

3. Large animals such as horses and livestock must be kept off the disposal area.

4. Disposal Surface Area shall be seeded with grass, rather than trees or shrubs, to prevent erosion. Properly maintain grasses as appropriate during the specific season. Water sparingly. Do not saturate the area with automatic sprinkling.

5. Maintenance reports and records to be kept by the system owner.

6. Effluent Filter to be cleaned every 6 Months of use, or as deemed necessary by maintenance provider.

7. Distribution box and speed levelers to be checked annually.

8. All Tanks to be pumped out every three to five (3-5) years, depending on usage, or as deemed necessary by maintenance provider.

9. Water Conditioners, Water Softeners, or Hot Tubs CANNOT be flushed into the System.

10. Try not to stress the system with multiple loads of laundry on one day.

11. Do not use chemical drain cleaners.

12. Practice water conservation by using low flush toilets, water saving faucets and shower heads, dishwashers only when full, repair any leaks, and use Biodegradable products whenever possible.

13. Take hazardous wastes to approved disposal centers. Don't allow toxic cleaners or chemicals to enter the system including left over antibiotics.

14. Don't use your toilet or drains as a trash can. Cooking grease, fats, cigarette butts, disposable diapers, sanitary napkins, wipes, hair, plastics, lint, metal, rubber, solvents, coffee/tea grounds and cat litter should be kept out of the wastewater system and disposed of in the garbage.

System Contact Information

AP: Jayme Franklin, P.Eng
Tel: (250)832-8380
Email: info@franklinengineering.ca

Installer:_____
Tel:_____
Email:_____

Maintenance Provider:
Tel:_____
Email:_____

Electrician:
Tel:_____
Email:_____

I verify that I have received and understood the maintenance plan requirements:

Client Signature:_____Date:_____

Jayme Franklin, P.Eng.
Franklin Engineering Ltd.