

104.9
- 10.2
94.7

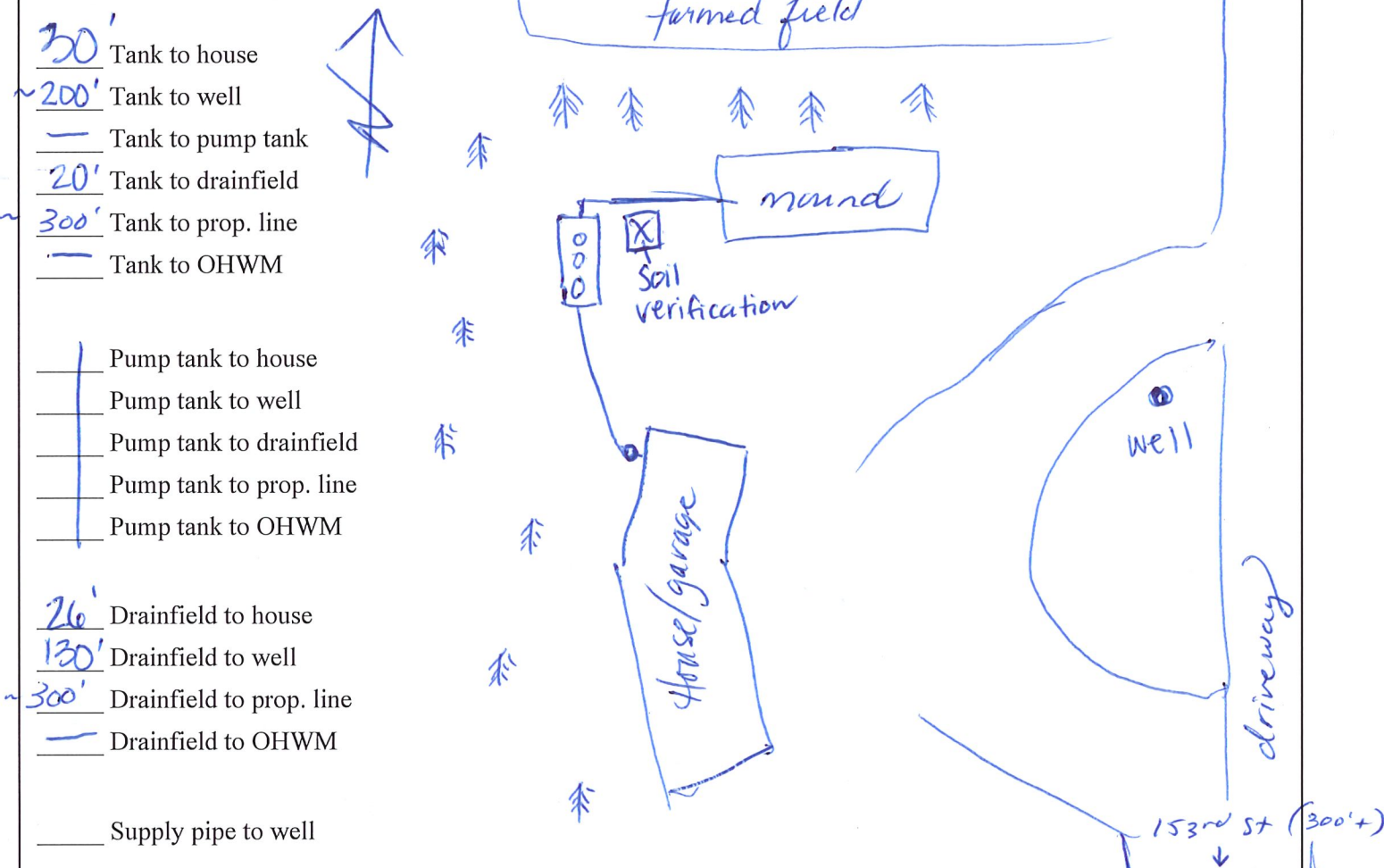
104.9
- 6.1
98.8

Elevations

Benchmark Location: bottom of cleanout Benchmark Elevation: 4.9' = 100'
 Bottom of media: 6.1' = 98.8 Restrictive Layer: 10.2' = 94.7 System Separation: 4.1'
 ↳ verified closer to tank, slightly down-slope of mound.

Site Sketch

*Indicate: North, slope direction, benchmark, soil verification location



Notes:

Soils verified to those in design logs.

Installer: Big Stone Excavating Kodum 4018
Company Name Signature License #
 Inspector: Hannah Kruse Hannah Kruse 10218
Print Name Signature Cert #

CERTIFIED STATEMENT: The work done on this system has been completed in accordance with the design submitted with this permit and MN Rule 7080 requirements. Morrison County waives all responsibility of future hydraulics because of abuse, water use, or maintenance. System compliance is valid for five years from date of inspection on new system components.

Additional Documentation (attach as applicable)

- Tank Sheet(s) Pressure Test Abandonment Form Soil Log Vac test Other

Picking List by Order

Order Number: SO-180470
Order Date: 6/13/2024
Customer No: C6525

Delivery Date: Friday
6/14/2024

CASH IN ADVANCE NEEDED

Sold To: Big Stone Excavating
18651 Morrison Line Road
Swanville, MN 56382

Ship To: Big Stone Excavating
9884 153 street
12:00
Little Falls, MN 56382

Item No.	Description	UofM	Qty
1600 2C - F	7' Max Depth / Capacity: 1005/604	EACH	1.00
DATE OF MFG	Date of Mfg: <u>4-25-24</u>	EACH	1.00
SIGN	Sign & Date: _____	EACH	1.00
DRIVER	Driver Name: <u>[Signature]</u>	EACH	1.00
HOLE CONDITION	Hole Condition: <u>Steel</u>	EACH	1.00
SUPPLIES	Supplies Below:	EACH	1.00

2 consud

BROWN-WILBERT TANK INSTALLATION INSTRUCTIONS

SITE CONDITIONS

The site must be accessible to large heavy trucks. Be free of items like trees, stumps, overhead wires, and buildings that could interfere with delivery or installation. The trucks must be able to be within three to six feet of placement of excavation.

EXCAVATION

Excavation should be approximately 12" minimum larger than the tank size to allow for adequate back fill; this may vary with soil conditions. Excavation shall have a level bottom, so the weight bears on the outside walls of the tank.

BEDDING

Proper use of bedding materials is important to ensure service life of the tank structure. Bedding must be capable of bearing the weight of the tank. Bedding material shall have the ability of 100% to be able to pass through a $\frac{3}{4}$ " screen. Bedding thickness shall be 4" minimum compacted (thickness may vary with existing soil conditions).

JOINT SEAL

Joint surfaces must be clean and proper placement of sealant according to manufacturer recommendations.

WATER TABLE

Tanks being placed where water levels can potentially be higher than the elevation of the tank cover must be brought to the attention of Brown-Wilbert, Inc. Either an alternative location should be considered, or waterproof coating applied to the tank.

BACKFILL MATERIAL

Sidewalls of tanks require dry backfill materials that have the ability of 100% to be able to pass through a 2" screen and have a minimum of 12" on all sides from bottom to top of tank. Backfill material shall be placed in a manner to avoid impact loads on the sidewall of tank.

COVER MATERIAL

The cover material shall be dry soil, sand or gravel and have the ability of 100% to be able to pass through a 4" screen. Cover material shall be mounded over tank and around risers to direct run-off away from both.

INLET & OUTLET

Pipe not to exceed 1" past interior wall of tank where a baffle is used.

BURIAL DEPTH

Tanks not to exceed the maximum burial depth of each model's specifications. (See chart below)



Soil verification at time of install.

Soil Observation Log

Janice Koe #10218

Project ID:

v 04.01.2020

Client: Dennis Thoma			Location / Address: 220220002						
Soil parent material(s): (Check all that apply)			<input type="checkbox"/> Outwash	<input type="checkbox"/> Lacustrine	<input type="checkbox"/> Loess	<input checked="" type="checkbox"/> Till	<input type="checkbox"/> Alluvium	<input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic Matter
Landscape Position: (select one)		Shoulder	Slope %: 1.0	Slope shape		Linear, Linear		Elevation-relative to benchmark: 100.0	
Vegetation: Forest		Soil survey map units: 163B				Limiting Layer Elevation: 97			
Weather Conditions/Time of Day:		<i>45 sunny 2pm</i>		<i>10:00</i>		Date: <i>04/02/24</i>			
Observation #/Location:		1			Observation Type: Pit				
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I----- Structure-----I		
							Shape	Grade	Consistence
<i>HK</i> ✓ 0"-4"	Sandy Loam	<35%	10YR 2/2				Granular	Weak	Friable
✓ 4"-28"	Sandy Loam	<35%	10YR 4/4				Granular	Weak	Friable
✓ 28"-32"	Sandy Loam	<35%	10YR 4/4	7.5YR 5/6	Concentrations	S1	Platy	Weak	Friable

HK
HK

Comments: *large concentrations, some pockets of clays in 28"-32" layer*

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Darrell Bacon/KodyThroener	<i>Darrell Bacon</i>	4018	4/2/2024
(Designer/Inspector)	(Signature)	(License #)	(Date)

Septic System Management Plan Agreement

Property Owner: Dennis Thoma Phone: _____ Date: 4-02-24

Site Address: _____ Parcel # 220220002

System Designer: Darrell Bacon Company Name: Big Stone Excavating License # 4018

Management Tasks—Listed below are the operating and management activities necessary to ensure the long-term performance of your septic system. The list includes responsibilities of the system owner and those of the system designer and or other septic system professionals. Certain management activities will require a licensed septic system professional.

Service Intervals—The system designer and Morrison County are providing recommended Service Intervals for your septic system.

- ◆ State Code requires “septic tank assessment” every 36 months
- ◆ Morrison County code requires “septic tank assessment” every 36 months
- ◆ System Designer recommends “septic tank assessment” every 24 months

✱ If the assessment identifies a need for pumping and cleaning of your tanks it must be done by a licensed professional.

Seasonal Tasks—or several times per year:

- ✓ **Leaks.** Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.
- ✓ **Surfacing sewage.** Regularly check for wet or spongy soil around your treatment area. If surfacing sewage or strong odors are not corrected by pumping the tank or fixing broken caps, call your service professional.
 - **Untreated sewage may make humans and animals sick.**
- ✓ **Alarms.** If there is an Alarm, the signal indicates there is a problem; contact your maintainer or a licensed septic system professional any time the alarm signals.
- ✓ **Lint filters.** If there is a lint filter, check for buildup and clean when necessary.
- ✓ **Effluent screen.** If there is an effluent screen, inspect and clean it twice a year or per manufacturer recommendations

Annual Tasks—or scheduled maintenance tasks:

- ✓ **Inspection Caps.** Check to make sure they are properly capped. Replace caps that are damaged.
- ✓ **Pumps and controls.** Check to make sure the pump and controls are operating correctly and inspect wiring for corrosion and function.
- ✓ **Event counter or water meter.** Monitor the average daily water use (if applicable).
- ✓ **Septic tank integrity.** Scheduling of pumping and cleaning of tanks at the recommended interval is very important.
 - This maintenance must be conducted through the manhole openings and include verification that tank and tank components are watertight and in good operating condition.

“I understand it is task manager’s responsibility (property owner or contracted licensed maintainer) to properly operate and maintain the sewage treatment system on this property, utilizing this Management Plan. If requirements of this Management Plan are not met, I (a management professional) will promptly notify Morrison County Planning & Zoning and take necessary corrective actions. If I (property owner) have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system.”

Property Owner Signature: _____ Date: _____

Designer Signature: Darrell Bacon Date: 4-02-24
Darrell Bacon/Big Stone Excavating/Mark & Kody Throener/License # L4018

Morrison County P&Z Signature: _____ Date: _____