

**AITKIN COUNTY**  
**CERTIFICATE OF INSTALLATION/~~NOTICE OF NONCOMPLIANCE~~**

This certificate of installation/~~notice of noncompliance~~ has been issued this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ to certify compliance/~~noncompliance~~ with Aitkin County's Subsurface Sewage Treatment System Ordinance.

The premises covered by this certificate are legally described as: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ Lake \_\_\_\_\_  
PERMIT NO. \_\_\_\_\_ Owner Name \_\_\_\_\_  
Address \_\_\_\_\_  
Installer Name \_\_\_\_\_  
Type of System Inspected \_\_\_\_\_  
Parcel Number \_\_\_\_\_

The certificate of installation/~~notice of noncompliance~~ was based on No \_\_\_ of the following:

- 1) Inspection of the installation or construction as in accordance with the above referenced permit and application design.
  
- 2) Review of as-built plans submitted in accordance with Subdivision 9.2 D of Aitkin County's Subsurface Sewage Treatment System Ordinance.

If the above permitted subsurface sewage treatment system is in noncompliance with Aitkin County's Subsurface Sewage Treatment System Ordinance, then the following shall serve as a Notice of Violation:

- 1) Statement of the findings of fact through inspections or investigations:  
\_\_\_\_\_  
\_\_\_\_\_

- 2) List of specific violations of Ordinance: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- 3) Requirements for correction or removal of violations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- 4) Time schedule for compliance: \_\_\_\_\_  
\_\_\_\_\_

Failure to correct or remove the above violation(s) will result in this matter being turned over to the Aitkin County Attorney's Office for further legal action, which may result in revocation of licenses or registrations, fines and/or imprisonment.

INSPECTOR SIGNATURE \_\_\_\_\_

**SUBSURFACE SEWAGE TREATMENT SYSTEM INSPECTION FORM  
AITKIN COUNTY, MINNESOTA**

Township Shamrock Date of Inspection 6/4/2020 I App. Number 2020-5733  
6/23/2020 F  
Owner Eric Lukes Parcel Number 29-0-060806

Project Address 21778 470<sup>th</sup> St. Installer Tony Kangas  
City McGregor Zip Code 55760 T3 ZBR Mound

New  Repair

DIST. or DROP BOX & TYPE —

**SETBACKS:**

Buildings to tank(s) 18' to garage  
Buildings to drainfield 50'+  
Well(s) 50' or 100' DW: 86' to tank  
Lake/Creek/Wetland Big Sandy Flowage: 100'+

**TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:**

Trench/Bed depth \_\_\_\_\_  
Trench/Bed length \_\_\_\_\_  
Trench/Bed bottom width \_\_\_\_\_  
Trench spacing \_\_\_\_\_  
Drainfield rock below pipe \_\_\_\_\_  
Size of gravelless pipe \_\_\_\_\_  
Depth of backfill \_\_\_\_\_  
Absorption area: square feet \_\_\_\_\_  
lineal feet \_\_\_\_\_

**SEPTIC TANKS:**

New  Existing   
Number of tanks installed (1) 1650 Jac. combo  
Liquid capacity and type 1120 per f combo  
Type of baffle Plastic

**MOUNDS:**

Percent slope 0%  
Upslope sand width 8'  
Downslope sand width 12'  
Sideslope sand width 8'  
Drainfield rock below pipe 9" of 12" total  
Depth of sand below rock 36"  
Perforation size & spacing 0.25"/36" sp.  
Pipe size & spacing 1.5"/3' sp.  
Dimensions of rock bed 10' x 25'  
Dimensions of sand base 30' x 41'  
Final cover 12" cover over r.b., 4" TS

Inspection pipes —  
Manholes size 24"  
Manhole to grade Yes  No

**PUMPS:**

New  Existing   
Tank capacity and type 533 per f combo  
Pump manufacturer & model # Zeller 15Z  
Horsepower & GPM 0.4 HP 18 GPM  
Feet of head 25'  
Gallons per cycle 67 GPC  
Size of discharge line 1.5"  
Type & location of alarm Elec. on tank  
Water meter Event counter

**DRAWING OF SYSTEM: (include soils)**

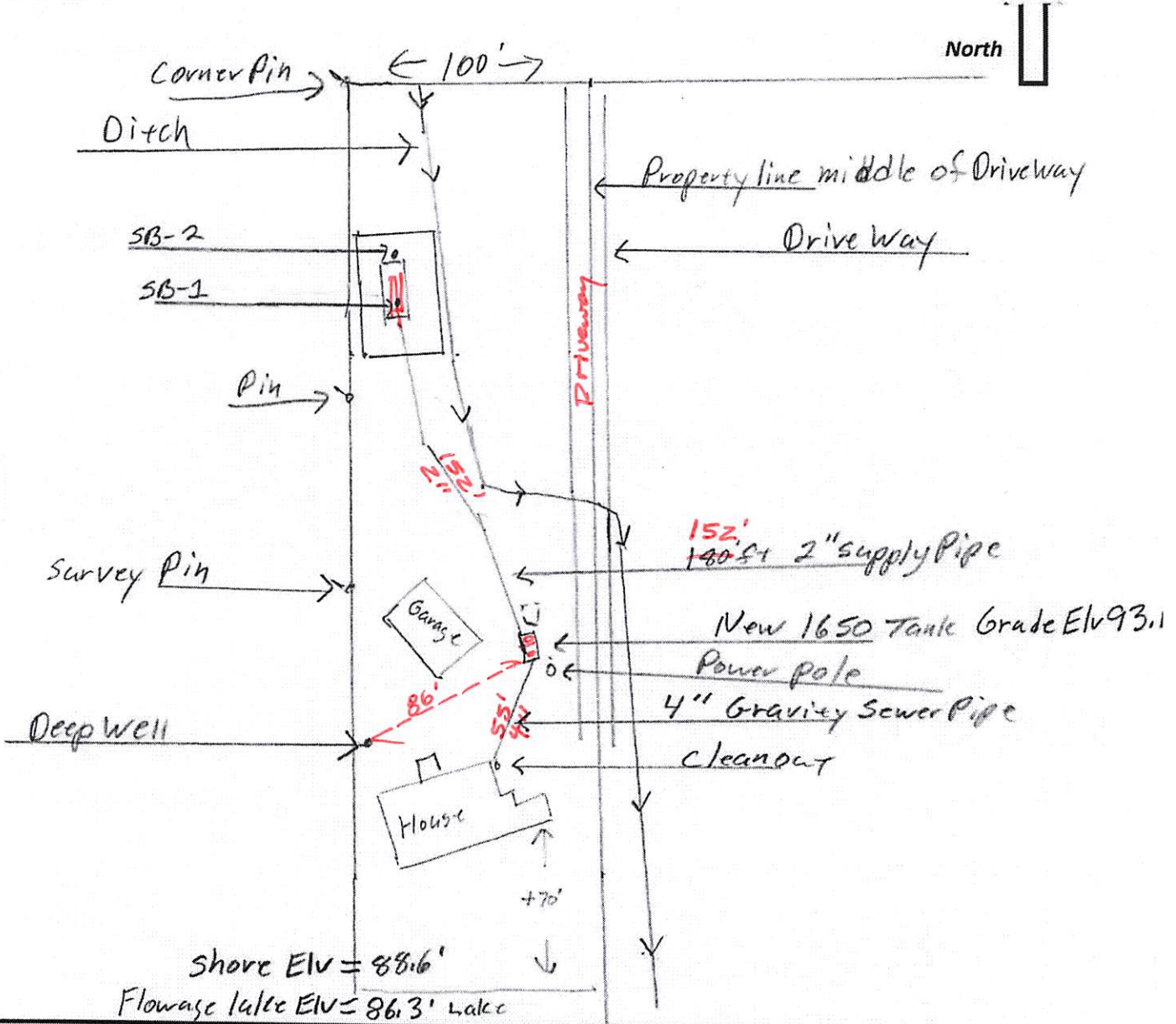
see attached site plan

Inspector's Comments: 4" pipe from building has to be pressure tested to tank  
5# for 15 min. Tony said he will do it. See notes on design. No scratch inspection  
done - I was not called.

Inspector's Signature Bryan Hargrave Installer's Signature \_\_\_\_\_

## { Design Drawing }

Property Owner: Eric Lukes      Date: 10/8/19      Designer's Initials: JB  
 Parcel ID. Number: 29-0-060806      Address: 21778 470th St. McGregor MN 55760  
 one Inch = 40ft.



Surface/ SHWT		Nail on Tree = Bench Mark 100'		Existing Grade	
Soil Bore 1	96.7'1/8"	Bench Mark	100'	Upslope Edge of rockbed Elv.= 97'	
Soil Bore 2	97'1/8"	Top of Well Cap	94.9'	Bottom of Rockbed Elv.= 100'	
Soil Bore 3		Ground Elv. Tank	93.1'	Top of Washed sand Elv.= 100'	
	Ground at	Existing house	92.1'	Existing sewer pipe at house Elv.=91.1'	SW Corner

Please show all that apply ( Existing )      Please Draw to Scale with North to Top or Left Side of Page:

Wells within 100ft. Of Drain field.	Disturbed/Compacted Areas	Access Route for Tank Maintenance
Water lines within 10 ft. of Drain field.	Component Location	Property Lines
Drain field Areas:	OHW ordinary high water	Structures
	Lot Easements	Setbacks

Kangas Ent.  
6.3.20

## JACOBSON PRECAST CONCRETE, LLC

### TANK INSTALLATION INSTRUCTIONS

Model # 1650SP Date Built: 9-17-19 Gallons: 1650 Bury Depth 4'

Model # \_\_\_\_\_ Date Built: \_\_\_\_\_ Gallons: \_\_\_\_\_ Bury Depth \_\_\_\_\_

#### SITE CONDITION:

The site must be accessible to large, heavy trucks. Free of items like trees, stumps, overhead wires, etc. That could interfere with delivery or installation and allows trucks to within 3 to 5 ft of placement excavation.

#### EXCAVATION:

Excavation should be approximately 12" minimum larger than 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:

Each tank should be placed on about 6" of proper bedding material leveled, and should be compacted to minimum 95% compaction if tested, to ensure the 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 pass through a 1/2" screen.

#### WATER TABLE:

When tanks are being placed where water levels can potentially be higher than the elevation of the tank cover, an alternate location should be considered. If water table is high installer must also consider the tank may float, if this is a possibility tank must be tied down before backfilling.

#### BACKFILL MATERIAL:

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

#### COVER MATERIAL:

Cover material shall be dry soil, material that has the ability of 100% to be able to pass through a 2' 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 the interior wall of tank where a baffle is used.

BURIAL DEPTH: Tanks to be installed according to model's maximum bury recommendations:



2020/06/04



2020/06/04



2020/06/04



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DU PONT  
**Tyvek**  
HomeWrap

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2020/06/04



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EXCAVATING & SEPT  
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