

TIME OF TRANSFER INSPECTION TOT# 13943 BEN BEDWELL CERT # 11612

Site Information

Parcel Description: **500093246011000**

Address: **2732 settlers trail, St. Charles, IA 50240**

County: **Madison**

Owner Information

Property is owned by a business: **No**

Business Name:

Owner Name: **Rob Lange**

Email Address: **roberttlange@gmail.com**

Address: **2732 settlers trail, St. Charles, IA 50240**

Phone No: **641-362-3453**

Site related information

No Of Bedrooms: **4**

Inspection Date: **01/31/2025**

Facility Type: **Residential**

Currently Occupied: **Yes**

Last Occupied:

System Installation Date:

Permit issued by County: **Yes**

Permit Number: **044-05**

All plumbing fixtures enter septic system: **Yes**

County contacted for records: **Yes**

Property Information Comments:

Primary Treatment

Tank 1

Tank Name: **Tank 1**

Type: **Septic Tank**

Tank Size (Gal): **1500**

Tank Material: **Plastic**

Tank Corrosion Type: **None**

Liquid Level Type: **Normal**

No. of Compartments: **2**

Pump Tank Chamber: **No**

Licensed Pumper Name: **Wiegert**

Date Pumped: **2/4/2025**

Meets Setback to Well: **N/A**

Well Type:

Distance To Well (Ft.):

Is Accessible: **Yes**

Lid Intact: **Yes**

Risers Intact: **Yes**

Effluent Filter Present: **Yes**

Watertight: **Yes**

Tank/Vault Pumped: **Yes** Inlet Baffle Present: **Yes** Outlet Baffle Present: **Yes** Functioning as Designed: **Yes**

Tank Comments:

General Primary Treatment Comments:

Distribution Type

Distribution Box 1

Label: Distribution Box 1	Material Type: Plastic	Accessible: Yes
Box Opened: Yes	Baffle Present: Yes	Speed Levelers Present: Yes
Watertight: Yes	Functioning As Designed: Yes	

General Distribution System Comments :

Secondary Treatment

Lateral Field1

Distribution Type: Distribution Box	Material Type: Leaching Chamber	Trench Width: 36
Lines: 4	Total Length of Absorption Line: 400	System Hydraulic Loaded: Yes
Gallons Loaded: 300	Meets Setback to Well: N/A	Well Type:
Distance To Well (Ft.):	Lateral Lines Probed: Yes	Saturation or Ponding Present: No
Grass Cover Present: Yes	Lateral Lines Equal Length: Yes	System Located on Owner Property: Yes
Easement Present: N/A	Functioning as Designed: Yes	
Comments:		

General Secondary Treatment Comments:

Narrative Report

TOT Inspection Report Overall Narrative Comments: **The system was working properly during the inspection**

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Owner Name: **Rob Lange**

Address: **2732 settlers trail , St. Charles , IA 50240**

County: **Madison**

Inspection Date: **01/31/2025**

Submitted Date: **2/10/2025**

This page certifies a Time of Transfer inspection was conducted and submitted for the property listed above in accordance with Subrule 567 IAC 69.2(8).

Madison County
Office of Zoning and
Environmental Health

**Authorization to Construct a
Private On-site Wastewater
Treatment System (POWTS)**

112 N. John Wayne Drive
P.O. Box 152
Winterset, IA 50273-0152
Telephone: (515) 462-2636

Certificate Number: 044-05

Date Issued: April 28, 2005

Issued to: Richard & Kristie Dickinson II
Address: 2732 Settlers Trail
St. Charles, Iowa 50240

P10-#
500093246011000

Legal Description: 25.3A CENT PT SW NW Section 32 T75 R26 South Twp

POWTS Components Specifications: 1500 gal septic tank – 36" chamber 4 @ 100 feet

General Conditions:

1. System must be constructed in conformance with attached system layout, profiles, and cross-sections.
2. Structures must be constructed in conformance with 567 IAC Chapter 69 and the Madison County Environmental Health Regulations.
3. Permit shall be null and void if system is not constructed within one year of permit issuance. The Environmental Health Officer must approve any request for extension of permit.
4. The Environmental Health Officer must approve any design modifications to the permitted system prior to construction.
5. Once constructed, all system components must be uncovered for inspection and the system must be approved before it can be put into operation. Notice for inspection must be received with 24 hours in advance (8 a.m. through 4:30 p.m., Monday - Friday). If weather necessitates the need to cover the system components, then the system owner or contractor must notify and follow the procedures given by the Environmental Health Officer.

Special Conditions:

Jean Thompson

**Environmental Health Officer
Madison County
Office of Zoning and Environmental Health**

Application to Construct
Private On-Site Wastewater Treatment
System (POWTS)

Office Use Only					Temp E911:		
Tracking No.	Date Received	Fee Paid	Date Issued	Date Inspected	Date Approved	Section/Township	NPDES Authorization #
044-05	4-28-05	150					

Application will not be accepted until site and soil analysis/percolation information, and two diagrams of the system layout, profiles and cross-sections have been received; and fee has been paid. For systems requiring an NPDES General Permit #4 (surface discharge), its application must be submitted to this office and appropriate forms recorded before a permit will be issued.

Please Print All Information.

1. Owner Information (Applicant)				2. Contractor Information			
First Name <i>Denny</i>		Last Name <i>Dickinson</i>		First Name <i>Mark</i>		Last Name <i>Mease</i>	
Address <i>2732 Settlers Trl St. Charles IA 50240</i>				Address <i>Truro IA 50257</i>			
City <i>(641) 765-4128</i>		State <i>IA</i>		City <i>(641) 765-4765</i>		State <i>IA</i>	
Phone Number (area code)		Fax or E-mail		Phone Number (area code)		Fax or E-mail	

3. System Requirement Information	4. Site and Soil Evaluator (Percolation Test)
IAC CHAPTER 69 DOUBLE COMPARTMENT TANK REQUIRED	PERCOLATION TEST MUST BE COMPLETED AND APPROVED PRIOR TO THE ISSUANCE OF PERMIT
Minimum Tank Size Required	Date test taken _____ Test taken by _____
1-3 Bedroom 1000	Test Results: Hole 1 _____ min/in Hole 2 _____ min/in
4 Bedroom 1250	Hole 3 _____ min/in Hole 4 _____ min/in
5 Bedroom 1500	Average _____ min/in Depth of Test Holes _____
6 Bedroom 1750	Number of Laterals Required _____
	Length of Laterals Required _____ ft. ea

5. Type of Submittal	6. Address Information
<input checked="" type="checkbox"/> New <input type="checkbox"/> Revision <input type="checkbox"/> Repair, Tank <input type="checkbox"/> Repair, Treatment Area <input type="checkbox"/> System Replacement	Location, Number & Street of project (if unknown, indicate nearest road): <i>Settlers Trl</i> Legal Description: <i>25.3A Cent PT SW 7W 32-75-26</i>
Previous Permit #:	

7. Type of Building (Completed by Owner)			
<input checked="" type="checkbox"/> Residential	Number of Bedrooms: <i>3</i>	<input type="checkbox"/> Commercial/Other Non-Residential	Use:
Other buildings served by this system: <i>None</i>		<input type="checkbox"/> Garbage Disposal	<input type="checkbox"/> High Water Usage Appliance (i.e. whirlpool bath, water softener) Qty: _____

Your contractor or system designer should complete the remaining portion of this application.

8. Primary and/or Mechanical Treatment	Type	Manufacturer	Model	Size (gal)	
	<i>Plastic</i>	<i>Garlo</i>		<i>1500</i>	
	<i>Plastic</i>	<i>Coon</i>		<i>500 pumps</i>	
9. Pump/Siphon	Type	Manufacturer	Model	Dosing Frequency	
<input type="checkbox"/> Not Applicable	<i>Zoeller</i>	<i>1/2 HP</i>			
10. Secondary Treatment Area Type: <input type="checkbox"/> Not Applicable					
Type of Laterals	Number of Laterals	Length of ea. Lateral	Other	Other	Maximum Trench Depth (inches)
<i>36" Chambers</i>	<i>4</i>	<i>100</i>			<i>24"-30"</i>

<p>I hereby attest the truth and accuracy of all facts and information presented on this application. Request for inspection of the system must be made 24 hours in advance. Water at the site to test the distribution box must be available. Mechanical systems require use of a free-access sand filter and must be covered by a maintenance agreement, which must be recorded in the Madison County Recorders Office. Discharge from mechanical systems and sand filters require periodic testing as set forth in IAC Chapter 69 and the results submitted to BOH.</p>	<p>It is unlawful to start construction, reconstruction, or repair of any POWTS prior to issuance of a POWTS permit by the Environmental Health Officer.</p>
Applicant Signature: <i>[Signature]</i>	Date: <i>4-28-05</i>

001597210 DED Dickinson, Richard Ii
 2732 Settlers Tr
 St Charles IA 50240-
 Street SETTLERS TRAIL
 3415
 City ST CHARLES

Property Ownership 001597210 DED
 Location 000000000
 Recorded 2732
 Documents REC 2002
 Misc
 Sec-Twp-Rng 032 075 026
 Legal Desc 25.3A CENT. PT.
 Applications TYP 1 AGL Ovr Amt
 TYP 3 Ovr Amt
 Exempt Code
 Cty-Adn-Blk SW NW
 No Ag Cr 00032
 VIN#
 Title
 TYP 2 Ovr Amt
 TYP 4 Ovr Amt
 100% Rollback Gr
 64,000 33,351 Ex
 64,000 33,351 PE
 Net 23.80
 Acres Typ Desc Value Rollback Acres
 25.30 LND Land 5,100 5,100 23.80
 1.50 DWL Ag Dwlg 58,900 28,251
 .00 EXM Exempt
 .00
 3=Exit F10=Ownership F12=Prev F13=Rec Doc F14=Image F15=Legal F16=Notes
 F17=IE F18=TaxHist F19=Aplic F20=Value F21=Print F22=View Image F23=Indexing



BOECKMAN SERVICES

**1990 CLOVER AVENUE
CRESTON, IA 50801**

**PHONE: (641)-782-4595
Louis Boeckman, CPSS-PSCI**

March 6, 2005

MADISON COUNTY HEALTH & ZONING
Elton Root, Sanitarian
PO Box 152
Winterset, IA 50273-0152

RE: Soil Analysis for Denny Dickinson
2732 Settlers Trail
St. Charles, IA 50240
Section 32 South Township

Dear Mr. Root:

Enclosed are the soil analysis results conducted on March 5, 2005 and soil transect for a new home of **Denny Dickinson** located in **section 32** of **South Township** near **St. Charles, Iowa**.

The test area is located northeast of the garage and east of the driveway. This area is covered with hardwood trees and relatively open canopy.

The loading rate is **.4 gallons per square foot** for the **potential soil absorption field**. The total footage for the field if constructed would be **560 feet with a 2-foot trench width** for 450 gallons per day water usage. You have the option to round the total footage to nearest 100-foot category or 600 feet.

The wide chamber product can be used with **373-400 feet of 3-foot trench** at this home site. **This site will require a pump system** to service of the proposed new home site.

Soil borings indicate the soils are **Clinton soils**. Soils at this site are **moderately well drained** and have a **seasonal high water table of 4 to 6 feet** during spring months or during heavy rainfall periods. If this site is used for soil absorption field, **trenches must be constructed at depths of 24-30 inches and up slope from test holes 6 and 7.**

Test holes 6 and 7, located north and slightly down slope from the proposed new home site, are not suitable for absorption field because limiting layers are too shallow of adequate treatment of wastewater. However, test holes 1 through 5 are suitable for soil absorption field.

JIL BORINGS AND TRANSECT OF ON-SITE WASTEWATER TREATMENT AND DISPOSAL SYSTEM SITE

DATE: 3-5-05 Time Started: 8:00 AM Time Completed: 12:00 PM HOME OWNER: Deany Dickerson
 Conducted By: Lois Boehman Certification: 95-250 ADDRESS: 2732 Satterly Trail

LOCATION: NE of Garage & east of Driveway CITY: ST. Charles ST: M ZIP: 50240
 LANDSCAPE-LANDFORM-SLOPE TYPE: (Place "X" on Diagrams-Back of Sheet) SECTION NO.: 32 T. 75 N. R. 26 W. COUNTY: Madison
 SOIL SYMBOL: 80c SOIL NAME: Clinton silt loam, 5 to 9 per cent slopes TOWNSHIP: 50th W. Lat: 41.25325
 ASPECT (°): E (90) SOIL PERMEABILITY: Mod. slow Long: -93.88410

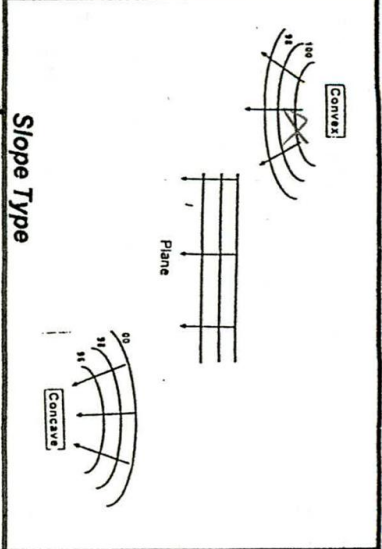
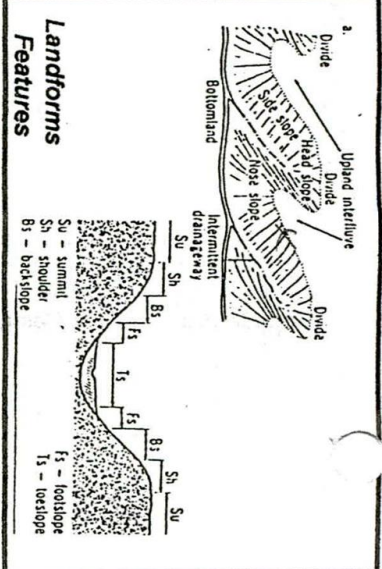
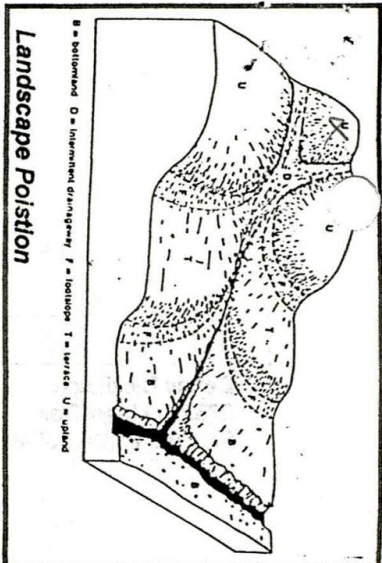
DEPTH OF POTENTIAL SEASONAL HIGH WATER TABLE (ft.): 4-6
 SOIL BORINGS: NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 NO. 6 NO. 7 NO. 8 NO. 9
 THICKNESS OF SURFACE SOIL (in.): 7" 7" 8" 7" 6" 5" 11" 11" 11"
 DEPTH TO Concentrations: 22" 26" 25" 21" 23" 15" 18" 18" 18"
 REDOX FEATURES: Depletions: 22" 26" 25" 21" 23" 15" 18" 18" 18"
 DEPTH TO GRAY MATRIX: P 150" P 161" P 155" P 130" P 124"
 DEPTH OF LIMITING LAYERS(KD/in.): WI > 60" WI > 65" WI > 65" WI > 63" WI > 62" WI > 41" WI > 34" 54"
 DEPTH TO CLAY MAXIMUM: 12-22" 14-26" 13-25" 14-21" 12-23" 41" 54"
 DEPTH OF ACTIVE W.T.: > 60" > 65" > 68" > 77" > 62" > 45" > 43"
 Formula: GPD = LLR = FOOTAGE
 LR TW Round to next higher even 100 ft. = 600 ft. = 400 ft.
 Average Loading Rate = .4
 GPD = 450
 LR = .4
 LLR = 1120
 TW = 2 = 560 ft.
 TW = 3 = 373 ft.

Formula:
 GPD = LLR = FOOTAGE
 LR TW
 Rodden LR by 1.6
 E horizon

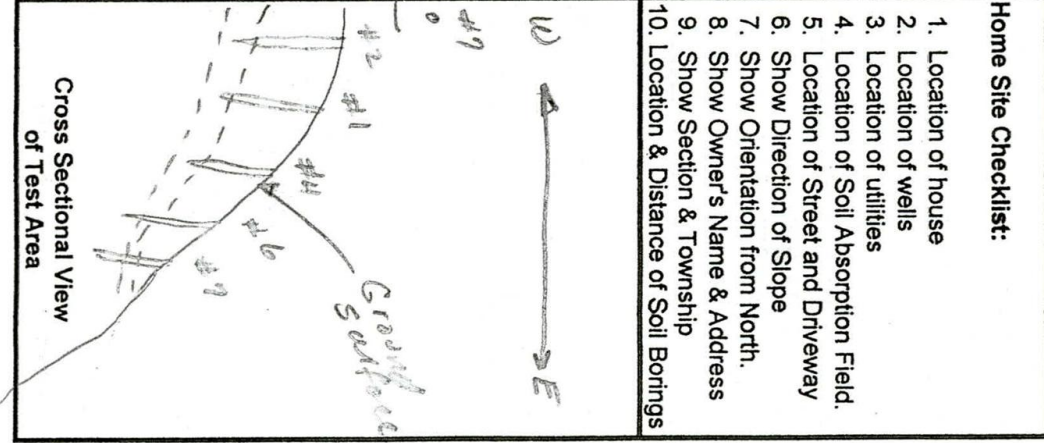
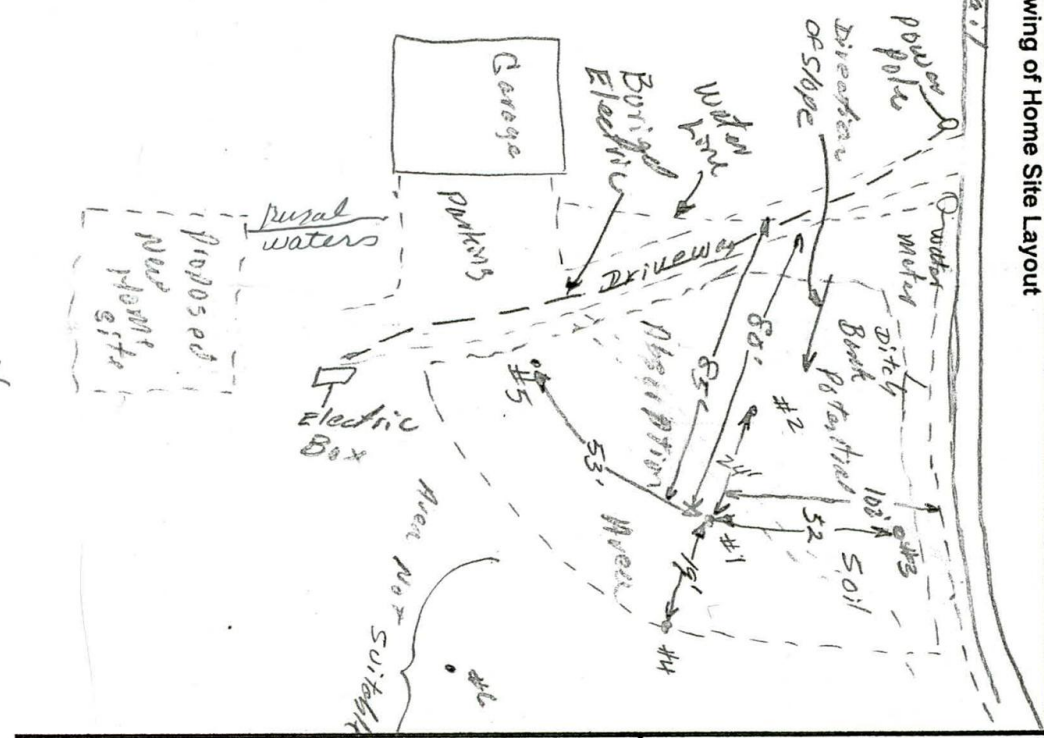
Handwritten calculations:
 $\frac{24.1}{60} = .4$
 $\frac{4}{2.4} = 1.6$
 $\frac{3}{1.5} = 2$
 $\frac{43}{17.2} = 2.5$
 $\frac{10}{3.0} = 3.3$
 60
 Triarch Diagram
 24-30"

DEPTH HORI-ZON (Inches)	SOIL TEXTURE	COLOR		MATRIX	COATS or CLAY FILMS	STRUC-TURE	CON-SIS-TENCY	ROOTS	BOUN-DARY	MOIST STATE	COMPAC-TION	PM or REMARKS	LOADING RATE
		MATRIX	REDOX										
0-4 AP	S.L 25% c	10YR 7/1 10YR 3/2				1fgv	fr	cf	ps	m	NO	Timber loess	.6
4-7 E	S.L 23% c	10YR 4/2			10YR 3/2	1mty	fr	cf	cs				1.6-1.1 = .5
7-12 BT	S.L 33-34% c	10YR 4/4			10YR 4/2	10SA 10ABk	fr	cm	cs				.4
12-22 BT	S.L 36-38% c	10YR 5/4			10YR 4/3	1mic ABk	fr	cm	cs				.4
22-31 BT	S.L 35% c	10YR 5/4	cmP 7.5YR 4/4 cmP 10YR 5/2		10YR 5/3	10cm PBk	fr	cm	gs				.4
31-50 BT	S.L 33-34% c	10YR 5/4			10YR 4/4		fr	cf	cs				.4
50-60 2BT	S.L 30% c	10YR 5/3 10YR 4/4 10YR 5/2	cmP 7.5YR 4/4 cmP 10YR 5/2		7.5YR 5/4	10PR 10ABk	fr						.3

PM = PARENT MATERIAL--(1) Loess, (2) Glacial Till, (3) Weathered Glacial Till, (4) Valley Fill, (5) Outwash, (6) Eolian, (7) Alluvium
 Described By: [Signature]



Drawing of Home Site Layout



Revised by IEB
01/17/2003 2:25 PM

No wells - ponds
No streams - ditches, etc

Danny Dickerson
2932 Sottles Trail
St Charles, MO 65057
Sav. 92 South Town
Madison County



Permit No 044-05

Name: Dickinson 911 Sign Locate

Date of Inspection: 5/6/05

Inspected by: Elton Root

Contractor: Mark Mease

Dwelling under construction or moved in Yes No

Setbacks

Meets required setbacks.

- Rural Water Yes No
- Private wells/Groundwater heat pump bore holes/suction water lines/lakes
 - Outside required 50-foot setback for tank Yes No
 - Outside required 100-foot setback for laterals Yes No
- Streams/ponds (25-25 ft)-ditches (10-10 ft) Yes No
- Indications of water lines under pressure Yes No

Comments:

Building Sewer

- Clean outs – one right outside of house Yes No
- **location of cleanout inside house and set requirement**
- Pipe is sch 40 and has a 4-inch diameter. Yes No
- Grade – has adequate fall. Yes No

Comments:

Tank

- Tank. Manufacture Fralo & Coon Concrete Plastic
- Capacity Septic 1500 gallon, Pump Tank 500 -gallon
- Two compartments, both meet the specs for capacity. Yes No
- Baffle Yes No
- Inlet/Outlet tees are ok. Yes No
- Effluent filter in the outlet. Yes No Manuf. Tuf-Tite
- Tank depth. 6 inches
- Risers Yes No
- Lids above grade screwed on Yes No Will be

Comments:

Distribution Box

- Brand Tuf-Tite Other
- Bedded in cement. Yes No Will be
- Has required inlet baffle. Yes No Will be
- Outlet levels –are level. Yes No Unknown

Comments:

Laterals

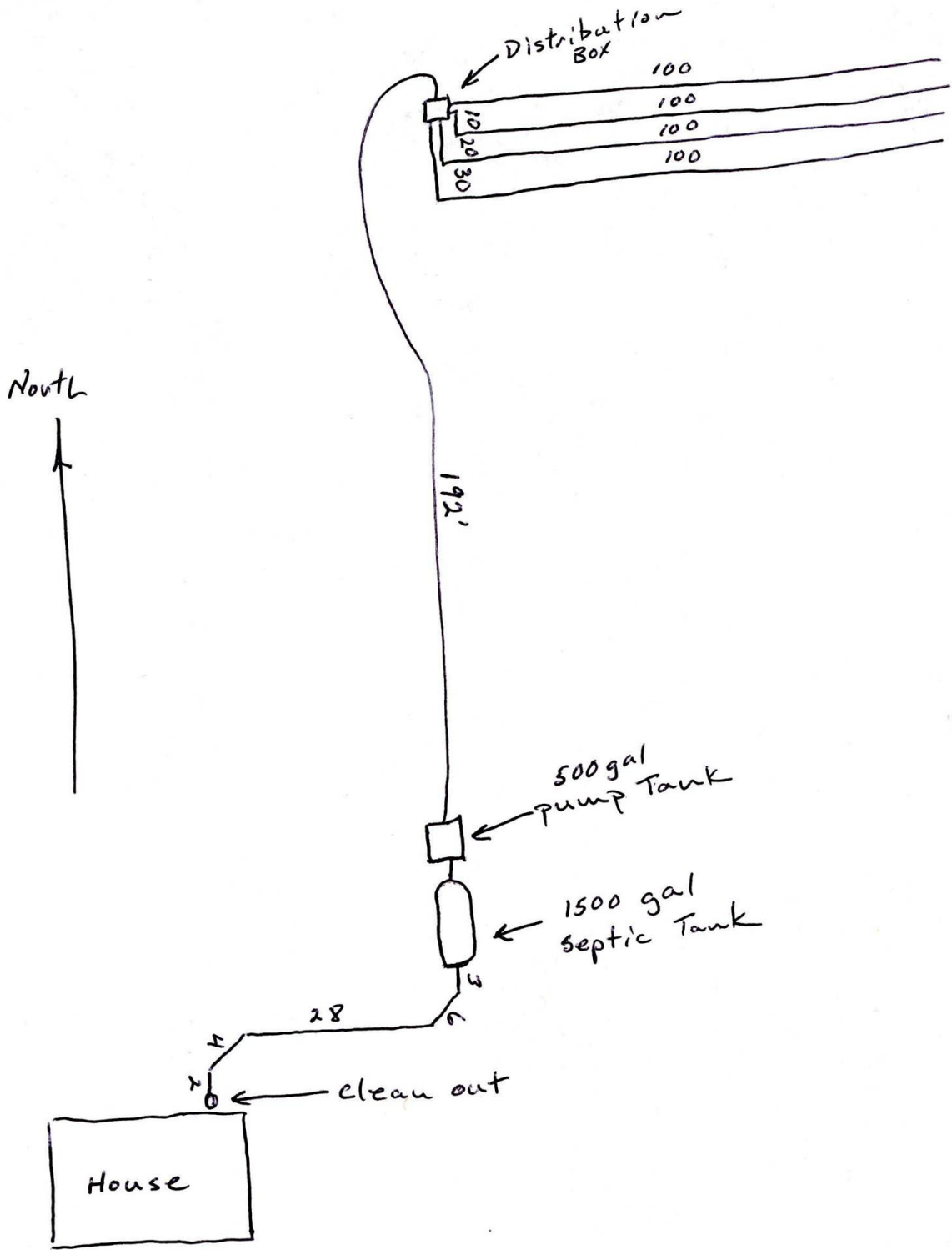
- Distribution lines: 4-inch PVC pipe – SCH40
- Distribution lines screwed to laterals. Yes No Will be
- Lateral used. Infiltrator 36" Reduction? Yes No
- Lateral depth 24 inches Perc depth 30 inches
- Laterals were level. Yes No
- Adequate amount of undisturbed soil between laterals. Yes No
- Distance 7 feet between laterals.

Comments:

Permit # 044-05 Dickinson Inspection 5/6/05



Permit # 044-05 Dickinson Inspection 5/6/05



Zoeller 1/2 hp Pump
Zoeller Audio/Vis Alarm