



A.T. MATT STARR



Aitkin County

Detailed Parcel Report

Parcel Number: 02-0-014401

General Information

Township/City: BALL BLUFF TWP
 Taxpayer Name: STARR, MATT DAVID
 Taxpayer Address: 3301 59TH AVE N
 Property Address: BROOKLYN CENTER MN 55429

Township: 52 Lake Number: 0
 Range: 23 Lake Name:
 Section: 8 Acres: 10.00
 Green Acres: No School District: 2.00
 Plat:
 Brief Legal Description: THE S 440 FT OF NE NE LESS THE E 330 FT

FIELD EVALUATION SHEET

PRELIMINARY EVALUATION DATE 4-30-2018, FIELD EVALUATION DATE 4-30-2018
 PROPERTY OWNER: MATT STARR PHONE 612-308-8218
 ADDRESS: 3301 59TH AVE N CITY, STATE, ZIP: BROOKLYN CENTER MN 553
 LEGAL DESCRIPTION: THE S 440 FT OF NE NE 2^{ESS} THE E 330 FT
 PIN# 02-0-014401 SEC 8 T 52 R 23 TWP NAME BALL LAKE
 FIRE# _____ LAKE/RIVER _____ LAKE CLASS _____ OHWL _____ FT.

DESCRIPTION OF SOIL TREATMENT AREAS

	AREA #1	AREA #2	REFERENCE BM ELEV. _____ FT.
DISTURBED AREAS	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	REFERENCE BM DESCRIPTION _____
COMPACTED AREAS	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	_____
FLOODING	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	_____
RUN ON POTENTIAL	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	_____
SLOPE %	<u>2</u>	<u>2</u>	_____
DIRECTION OF SLOPE	<u>SE</u>	<u>E</u>	_____
LANDSCAPE POSITION	<u>SLIGHT SIDE HILL</u>		_____
VEGETATION TYPES	<u>GRASS - FIELD</u>		_____

DEPTH TO STANDING WATER OR MOTTLED SOIL: BORING# 1 1.8', 1A 1.7', 2 2.1', 2A 2

BOTTOM ELEVATION—FIRST TRENCH OR BOTTOM OF ROCK BED: #1 + 2 FT., #2 + 2 FT.

SOIL SIZING FACTOR: SITE #1 1.67, SITE #2 1.67

CONSTRUCTION RELATED ISSUES: MOUND

LIC# 417 SITE EVALUATOR SIGNATURE: Gerald J Bader

SITE EVALUATOR NAME: GERALD J BADER TELEPHONE# 218-821-9379

LUG REVIEW _____ DATE _____

Comments: _____

SOIL BORING LOGS ON REVERSE SIDE

SOILS CHARTS FOR BOTH PROPOSED AND ALTERNATE SITES

1 (PROPOSED) SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-6	TOPSOIL	
6-20	FINE SAND	10YR 5/4
21	NO TTLES	

2 (PROPOSED) SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-6	TOPSOIL	
6-24	FINE SAND	10YR 5/4
25	NO TTLES	

1 (ALTERNATE) SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-6	TOPSOIL	
6-19	FINE SAND	10YR 5/4
20	NO TTLES	

2 (ALTERNATE) SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-6	TOPSOIL	
6-22	FINE SAND	10YR 5/4
23	NO TTLES	

ADDITIONAL SOIL BORINGS MAY BE REQUIRED

MOUND DESIGN WORK SHEET (For Flows up to 1200 gpd)

A. Average Design FLOW

Estimated 450 gpd (see figure A-1)
 or measured _____ x 1.5 (safety factor) = _____ gpd

A-1: Estimated Sewage Flows in Gallons per Day

number of bedrooms	Class I	Class II	Class III	Class IV
2	300	225	180	60%
<u>3</u>	<u>450</u>	300	218	of the
4	600	375	256	values
5	750	450	294	in the
6	900	525	332	Class I,
7	1050	600	370	II, or III
8	1200	675	408	columns.

B. SEPTIC TANK Capacity

1000 gallons (see figure C-1)

C-1: Septic Tank Capacities (in gallons)

Number of Bedrooms	Minimum Liquid Capacity	Liquid capacity with garbage disposal	Liquid capacity with disposal fit inside
2 or less	750	1125	1500
3 or 4	1000	1500	2000
5 or 6	1500	2250	3000
7, 8 or 9	2000	3000	4000

C. SOILS (refer to site evaluation)

- Depth to restricting layer = 1 feet
- Depth of percolation tests = _____ feet
- Texture FINE SAND
 Percolation rate _____ mpi
- Soil loading rate 1.5 gpd/sqft (see figure D-33)
- Percent land slope 2 %

D. ROCK LAYER DIMENSIONS

- Multiply average design flow (A) by 0.83 to obtain required rock layer area:
 $\frac{450}{\text{gpd}} \times 0.83 \text{ sqft/gpd} = \underline{374} \text{ sqft}$
- Determine rock layer width = $0.83 \text{ sqft/gpd} \times \text{linear Loading Rate (LLR)}$
 $0.83 \text{ sqft/gpd} \times \underline{10} \text{ gpd/sqft} = \underline{10} \text{ ft}$
- Length of rock layer = $\text{area} \div \text{width} =$
 $\frac{374 \text{ sqft (D1)}}{10 \text{ ft (D2)}} = \underline{37} \text{ ft}$

Mound LLR

< 120 MPI	< 12
> 120 MPI	< 6

E. ROCK VOLUME

- Multiply rock area (D1) by rock depth of 1 ft to get cubic feet of rock
 $\frac{374}{\text{sqft}} \times 1 \text{ ft} = \underline{374} \text{ cuft}$
- Divide cuft by 27 cuft/cuyd to get cubic yards
 $\frac{374 \text{ cuft}}{27 \text{ cuyd/cuft}} = \underline{14} \text{ cuyd}$
- Multiply cubic yards by 1.4 to get weight of rock in tons
 $\frac{14 \text{ cuyd}}{1.4 \text{ ton/cuyd}} = \underline{28} \text{ tons}$

F. SEWAGE ABSORPTION WIDTH

Absorption width equals absorption ratio (See Figure D-33) times rock layer width (D2)

$\frac{1.5}{\text{gpd/sqft}} \times \underline{10} \text{ ft} = \underline{15} \text{ ft}$

D-33: Absorption Width Sizing Table

Percolation Rate in Minutes per Inch (MPI)	Soil Texture	Loading Rate Gallons per day per square foot	Absorption Ratio
Faster than 5'	Coarse Sand Medium Sand Loose Sand Fine Sand	1.20	1.00
6 to 15'	Sandy Loam	0.75	1.50
16 to 30'	Loam	0.60	2.00
31 to 45'	Silt Loam Silt	0.50	2.40
46 to 60'	Sandy Clay Loam Silty Clay Loam	0.45	2.67
61 to 120'	Clay Loam Silty Clay Sandy Clay Clay	0.24	5.00
Slower than 120'			

*System designed for these soils, may be other as performance.

ROUND CROSS-SECTION

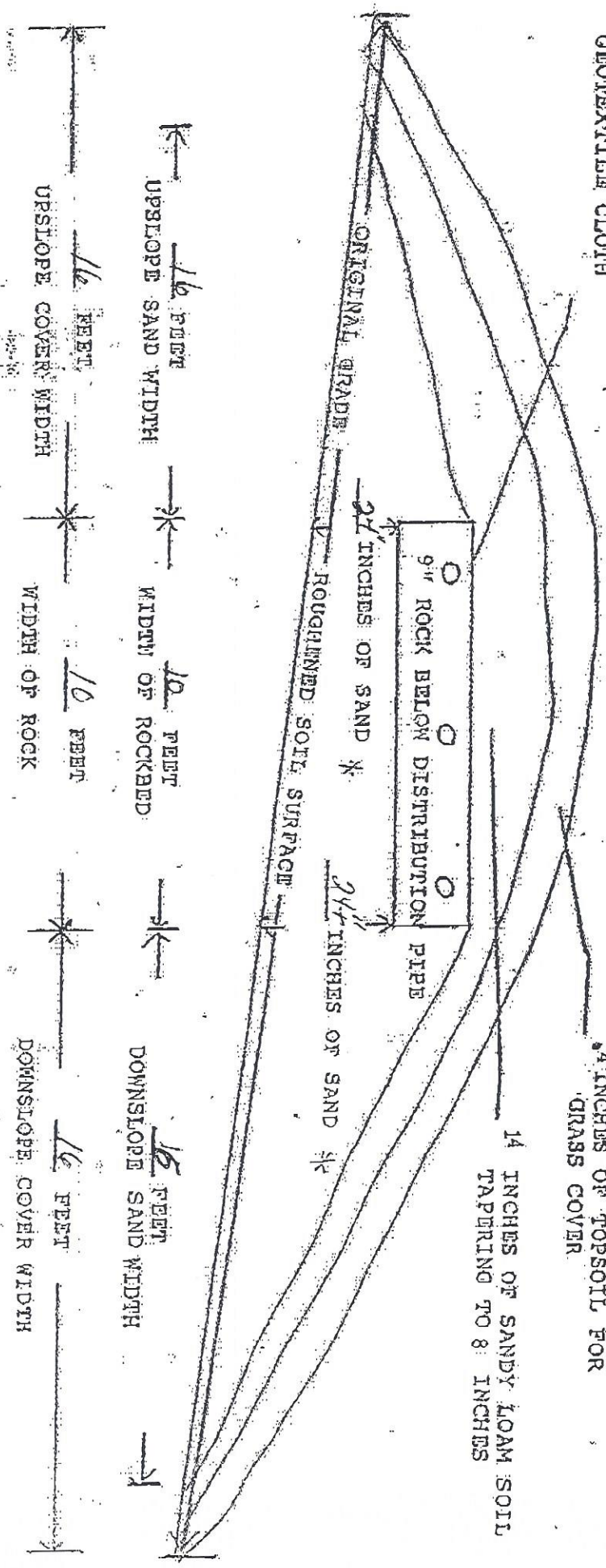
2 PERCENT SLOPE OF ORIGINAL SOIL

14 FT. x 10 FT. SIZE OF ROCKBED 14 FT. x 42 FT. SIZE OF SANDBASE

GEOTEXTILE CLOTH

4 INCHES OF TOPSOIL FOR GRASS COVER

14 INCHES OF SANDY LOAM SOIL TAPERING TO 8 INCHES



WIPPLER PRECAST - INSTALLER ~~MY~~ USE DIFFERENT SUPPLIER DOSING CHAMBER SIZING

1. Determine area

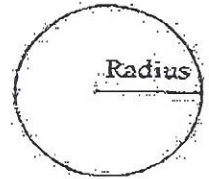
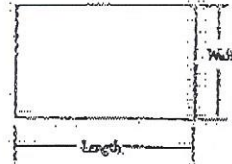
A. Rectangle area = L x W

$6.7 \times 4 = 26.8$ square feet

B. Circle area = $\pi (3.14) \times$ radius in feet \times radius in feet

$3.14 \times \text{ft} \times \text{ft} = \text{sqft}$

C. Get area from manufacturer _____ sqft



2. Calculate gallons per inch

There are 7.5 gallons per cubic foot of volume, therefore multiply the area (1A, B or C) times the conversion factor and divide by 12 inches per foot to calculate gallon per inch.

Area $\times 7.5 \div 12 = \text{sqft} \times 7.5 \div 12 \text{ in/ft} = 11.9$ gallon per inch

3. Calculate total tank volume

A. Depth from bottom of inlet pipe to tank bottom 42 in

B. Total tank volume = depth from bottom of inlet pipe to tank bottom (3A) \times gal/in (2)
= 42 in \times 11.9 gal/in = 499.8 gal

Legal Tank:
500 gallons or
100% the Daily flow
or
Alternating Pumps

4. Calculate gallons to cover pump (with 2-3 inches of water covering pump)

(Pump and block height (inch) + 2 inch) \times gallon/inch

(20 in + 2 in) \times 11.9 gal/in = 261.8 gallon

A-1: Estimated Sewage Flows in Gallons per Day

number of bedrooms	Class I	Class II	Class III	Class IV
2	300	275	180	60%
3	450	300	218	of the
4	600	375	256	volumes
5	750	450	294	in the
6	900	525	332	Class I
7	1050	600	370	flow
8	1200	675	408	columns

5. Calculate total pumpout volume

A. Select pump size for 4-5 doses per day. Gallon per dose = gpd (see figure A-1)

1 doses per day = 450 gpd \div 5 doses/day = 90 gallons

B. Calculate drainback

1. Determine total pipe length, 30 feet

2. Determine liquid volume of pipe, .17 gal per ft (see figure E-20)

3. Drainback quantity = 30 ft (5B1) \times .17 gal per ft (5B2) = 5 gal

C. Total pump out volume = dose volume (5A) + drainback (5B3)

90 gal + 5 gal = 95 Total gallon

E-20: Volume of Liquid in Pipe

Pipe Diameter inches	Gallons per foot
1	0.045
1.25	0.078
1.5	0.11
2	0.17
2.5	0.25
3	0.38
4	0.66

6. Float separation distance (using total pumpout volume)

Total pumpout volume (5C) \div gal/inch (2)

95 gal \div 11.9 gal/in = 8 inch

7. Calculate volume for alarm (typically 2 to 3 inches)

Alarm depth (inch) \times gallon/inch (2) = 3 in \times 11.9 gal/in = 35.7 gal

8. Calculate total gallon = gallons over pump (4) + gallons pumpout (5C) + gallons alarm (7)

261.8 gal + 95 gal + 35.7 gal = 392.5 gallons

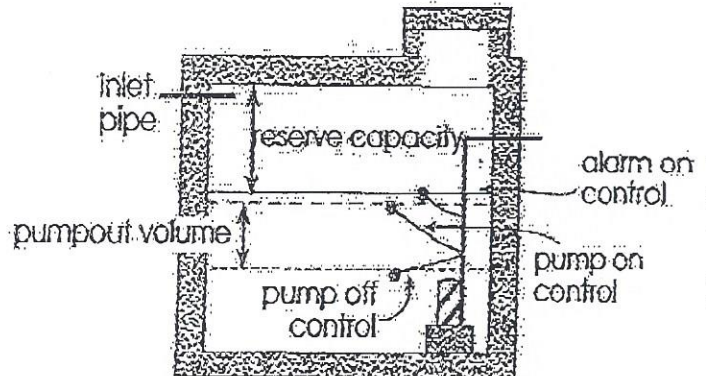
9. Total Tank Depth = total gallon (8) \div gallon/inch (2)

392.5 gal \div 11.9 gal/in = 33 in

Recommended:

Calculate reserve capacity (75% the daily flow)

Daily flow $\times .75 = 450 \times .75 = 337.5$ gallons



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

David J. Barber (signature) 417 (license #) 5-1-2018 (date)

G. MOUND SLOPE WIDTH & LENGTH

(landslope greater than 1%)

1. Downslope absorption width = absorption width (F) minus rock layer width (D2)

15 ft - 10 ft = 5 ft

2. Calculate mound size

UPSLOPE

a. Depth of clean sand fill at upslope edge of rock layer = 3 ft minus the distance to restricting layer (C1)

3 ft - 1 ft = 2 ft

b. Mound height at the upslope edge of rock layer = depth of clean sand for separation (G2a) at upslope edge plus depth of rock layer (1 ft) plus depth of cover (1 ft)

2 ft + 1 ft + 1 ft = 4 ft

c. Upslope berm multiplier based on land slope

3.45 (see figure D-34)

d. Upslope width = berm multiplier (G2c) x upslope mound height (G2b):

3.45 x 4 ft = 15 ft

DOWNSLOPE

e. Drop in elevation = rock layer width (D2) x percent landslope (C5) ÷ 100

10 ft x 2 % ÷ 100 = 0.2 ft

f. Downslope mound height = depth of clean sand for slope difference (G2e) at downslope rock edge plus the mound height at the upslope edge of rock layer (G2b)

0.2 ft + 4 ft = 4.2 ft

g. Downslope berm multiplier based on percent land slope

4.35 (see figure D-34)

h. Downslope width = downslope multiplier (G2g) times downslope mound height (G2f)

4.35 x 4.2 ft = 18 ft

i. Select the greater of G1 and G2h as the downslope width: 18 ft

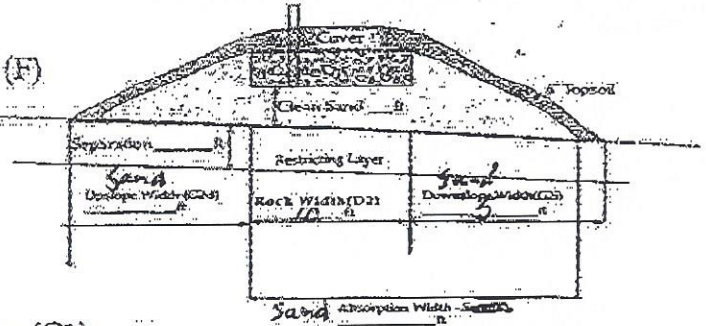
j. Total mound width is the sum of upslope width (G2d) width plus rock layer width (D2) plus downslope width (G2i)

15 ft + 10 ft + 18 ft = 43 ft

k. Total mound length is the sum of upslope width (G2d) plus rock layer length (D3) plus upslope width (G2d)

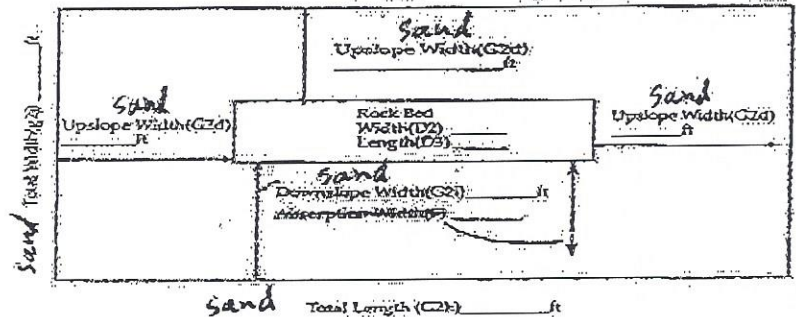
15 ft + 37 ft + 15 ft = 67 feet

Landslope > 1% slope



D-34: SLOPE MULTIPLIER TABLE

Land Slope in %	UPSLOPE multipliers for various slope ratios						DOWNSLOPE multipliers for various slope ratios				
	3:1	4:1	5:1	6:1	7:1	8:1	3:1	4:1	5:1	6:1	7:1
0	3.0	4.0	5.0	6.0	7.0	8.0	3.0	4.0	5.0	6.0	7.0
1	2.91	3.85	4.78	5.66	6.54	7.43	3.09	4.17	5.26	6.38	7.53
2	2.83	<u>3.70</u>	4.54	5.36	6.14	6.98	3.79	<u>4.95</u>	5.56	6.82	8.14
3	2.75	3.57	4.35	5.08	5.79	6.45	3.90	4.54	5.88	7.32	8.86
4	2.68	<u>3.45</u>	4.17	4.84	5.46	6.06	3.81	4.76	6.25	7.89	9.72
5	2.61	3.33	4.00	4.62	5.19	5.71	3.53	5.00	6.67	8.57	10.77
6	2.54	3.23	3.85	4.41	4.93	5.41	3.66	5.26	7.14	9.38	12.07
7	2.48	3.12	3.70	4.23	4.70	5.13	3.80	5.56	7.69	10.34	13.78
8	2.42	3.03	3.57	4.05	4.49	4.88	3.95	5.88	8.33	11.54	15.91
9	2.36	2.94	3.45	3.90	4.30	4.65	4.11	6.25	9.09	13.04	18.92
10	2.31	2.86	3.33	3.75	4.12	4.44	4.29	6.67	10.00	15.00	23.33
11	2.26	2.78	3.23	3.61	3.95	4.26	4.48	7.14	11.11	17.65	30.43
12	2.21	2.70	3.12	3.49	3.80	4.08	4.69	7.69	12.58	21.43	43.75

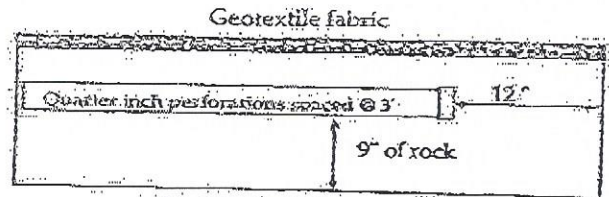


Final Dimensions:
43 x 67

I hereby certify that I have completed this work in accordance with applicable ordinances, rules and laws.
Scott J. Boehr (signature) 5-1-2018 (license #) 5-1-2018 (date)

PRESSURE DISTRIBUTION SYSTEM

- Select number of perforated laterals 3
- Select perforation spacing = 3 ft
- Since perforations should not be placed closer than 1 foot to the edge of the rock layer (see diagram), subtract 2 feet from the rock layer length.



Perf Sizing 3/16" - 1/4"
Perf Spacing 1.5 - 5"

$$\frac{37}{\text{Rock layer length}} - 2 \text{ ft} = 35 \text{ ft}$$

E-4: Maximum allowable number of 1/4-inch perforations per lateral to guarantee <10% discharge variation

perforation spacing (feet)	1 inch	1.25 inch	1.5 inch	2.0 inch
2.5	8	14	18	28
3.0	8	13	17	26
3.3	7	12	16	25
4.0	7	11	15	23
5.0	6	10	14	22

- Determine the number of spaces between perforations. Divide the length (3) by perforation spacing (2) and round down to nearest whole number.
Perforation spacing = 35 ft ÷ 3 ft = 11 spaces

- Number of perforations is equal to one plus the number of perforation spaces (4). Check figure E-4 to assure the number of perforations per lateral guarantees <10% discharge variation.

$$\underline{11} \text{ spaces} + 1 = \underline{12} \text{ perforations/lateral}$$

- A. Total number of perforations = perforations per lateral (5) times number of laterals (1).

$$\underline{12} \text{ perfs/lat} \times \underline{3} \text{ lat} = \underline{36} \text{ perforations}$$

- B. Calculate the square footage per perforation. Should be 6-10 sqft/perf. Does not apply to at-grades.

$$\text{Rock bed area} = \text{rock width (ft)} \times \text{rock length (ft)}$$

$$\underline{10} \text{ ft} \times \underline{37} \text{ ft} = \underline{370} \text{ sqft}$$

$$\text{Square foot per perforation} = \text{Rock bed area} \div \text{number of perfs (6)}$$

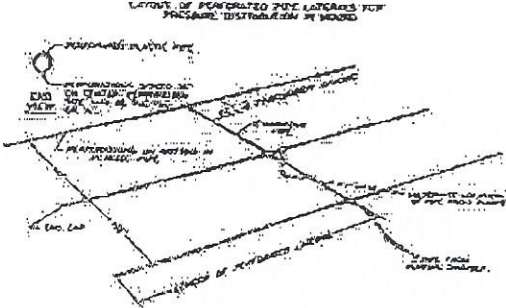
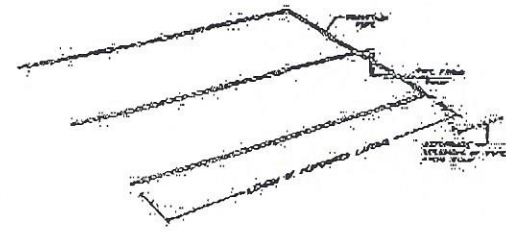
$$\underline{370} \text{ sqft} \div \underline{36} \text{ perfs} = \underline{10} \text{ sqft/perf}$$

E-6: Perforation Discharge in gpm

head (feet)	perforation diameter (inches)			
	1/8	3/16	7/32	1/4
1.0 ^a	0.18	0.42	0.56	0.74
2.0 ^b	0.26	0.59	0.80	1.04
5.0	0.41	0.94	1.26	1.65

^a Use 1.0 foot for single-family homes.
^b Use 2.0 feet for anything else.

MANIFOLD LOCATED AT END OF PRESSURE DISTRIBUTION SYSTEM



- Determine required flow rate by multiplying the total number of perforations (6A) by flow per perforation (see figure E-6)

$$\underline{36} \text{ perfs} \times \underline{0.74} \text{ gpm/perfs} = \underline{27} \text{ gpm}$$

- If laterals are connected to header pipe as shown on upper example, to select minimum required lateral diameter, enter figure E-4 with perforation spacing (2) and number of perforations per lateral (5) Select minimum diameter for perforated lateral = 1.5 inches.

- If perforated lateral system is attached to manifold pipe near the center, lower diagram, perforated lateral length (3) and number of perforations per lateral (5) will be approximately one half of that in step 8. Using these values, select minimum diameter for perforated lateral = _____ inches.

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Michael J. Butler (signature) 417 (license #) 5-1-2018 (date)

PUMP SELECTION PROCEDURE

1. Determine pump capacity:

A. Gravity distribution

1. Minimum required discharge is 10 gpm
2. Maximum suggested discharge is 45 gpm. For other establishments at least 10% greater than the water supply rate, but no faster than the rate at which effluent will flow out of the distribution device.

B. Pressure distribution

See pressure distribution work sheet

From A or B Selected pump capacity: 27 gpm

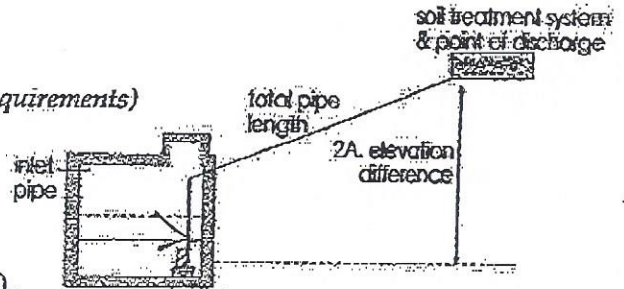
2. Determine pump head requirements:

A. Elevation difference between pump and point of discharge?

10 feet

B. Special head requirement? (See Figure at right - Special Head Requirements)

5 feet



C. Calculate Friction loss

1. Select pipe diameter 2 in

2. Enter Figure E-9 with gpm (1A or B) and pipe diameter (C1).

Read friction loss in feet per 100 feet from Figure E-9

Friction Loss = 1.55 ft/100ft of pipe

3. Determine total pipe length from pump discharge to soil treatment discharge point. Estimate by adding 25 percent to pipe length for fitting loss. Total pipe length times 1.25 = equivalent pipe length

30 feet x 1.25 = 38 feet

4. Calculate total friction loss by multiplying friction loss (C2) in ft/100 ft by the equivalent pipe length (C3) and divide by 100.

= 1.55 ft/100ft x 38 ÷ 100 = .6 ft

Special Head Requirements	
Gravity Distribution	0 ft
Pressure Distribution	5 ft

D. Total head required is the sum of elevation difference (A), special head requirements (B), and total friction loss (C4)

10 ft + 5 ft + .6 ft = 16

Total head: 16 feet

flow rate gpm	E-9. Friction Loss in Plastic Pipe Per 100 feet		
	nominal pipe diameter		
	1.5"	2"	3"
20	2.47	0.73	0.11
25	3.73	1.11	0.16
30	5.23	1.55	0.23
35	6.96	2.06	0.30
40	8.91	2.64	0.39
45	11.07	3.28	0.48
50	13.46	3.99	0.58
55		4.76	0.70
60		5.60	0.82
65		6.48	0.95
70		7.44	1.09

3. Pump selection

A pump must be selected to deliver at least 27 gpm (1A or B) with at least 16 feet of total head (2D)

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

David J. [Signature] (signature) 417 (license #) 5-1-2018 (date)

SKETCH SHEET

CLIENT: MATT STARR

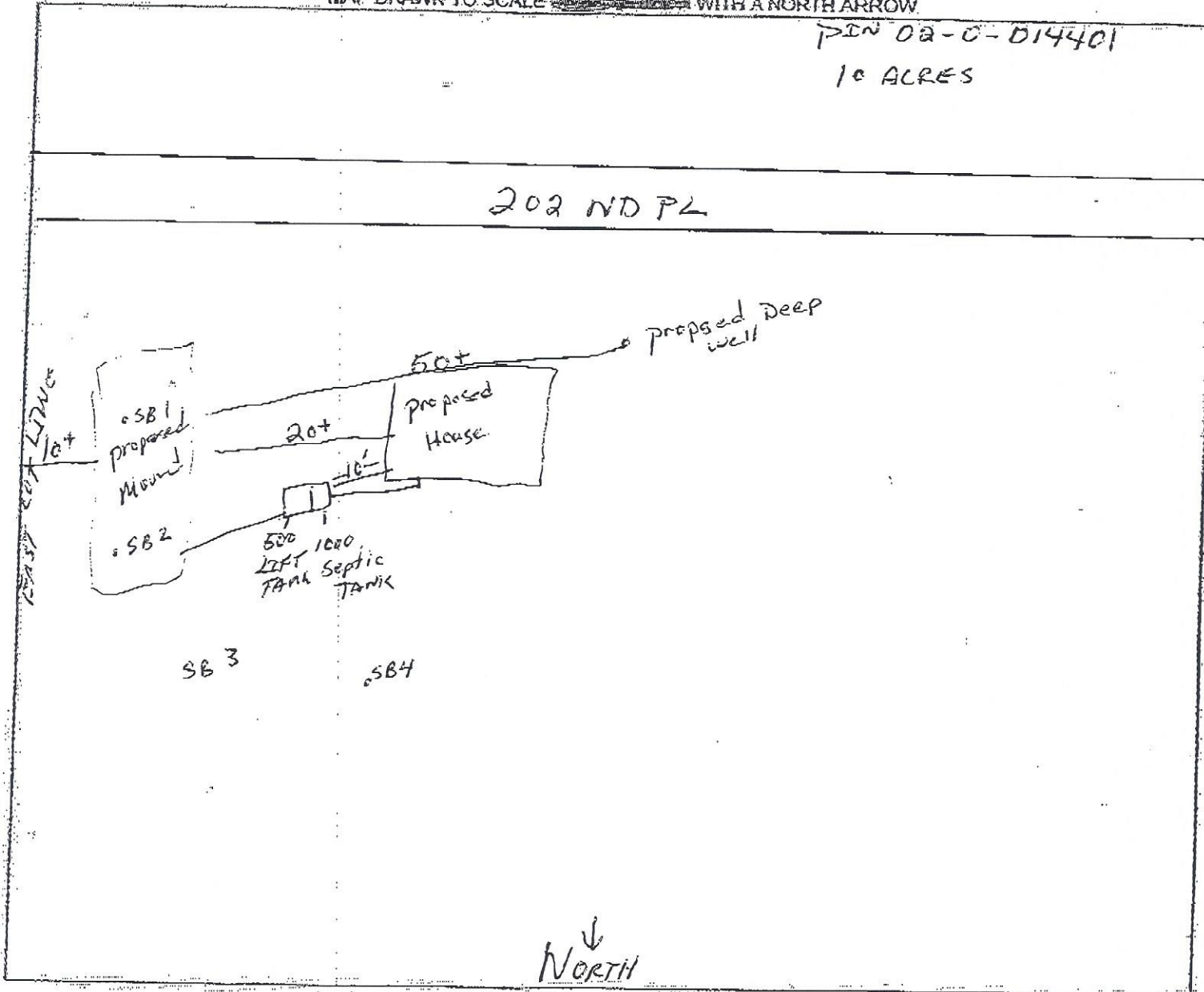
DATE: 5-1-2018

MAP DRAWN TO SCALE WITH A NORTH ARROW

PIN 02-0-014401

10 ACRES

202 ND PL



CHECK OFF LIST--HAVE ALL OF THE FOLLOWING BEEN DRAWN ON THE MAP??

SHOW EXISTING OR PROPOSED

- WATER WELLS WITHIN 100 FT OF TREATMENT AREAS
- PRESSURE WATER LINES WITHIN 10 FT OF TREATMENT AREAS
- STRUCTURES LOT IMPROVEMENTS
- ALL SOIL TREATMENT AREAS ALL ISTS COMPONENTS
- HORIZONTAL AND VERTICAL REFERENCE
- POINT OF SOIL BORINGS DIRECTION OF SLOPE
- LOT EASEMENTS ALL LOT DIMENSIONS
- DISTURBED/COMPACTED AREAS
- SITE PROTECTION--LATHE AND RIBBON EVERY 15 FT
- ACCESS ROUTE FOR TANK MAINTENANCE

REQUIRED SETBACKS

- STRUCTURES PROPERTY LINES
- OHM

COMMENTS:

INDICATE ELEVATIONS

BENCHMARK

ELEVATION OF SEWER LINE @ HOUSE

ELEVATION @ TANK INLET

ELEVATION @ BOTTOM OF ROCK LAYER

ELEVATION @ BOTTOM OF BORING OR RESTRICTIVE LAYER

ELEVATION OF PUMP

ELEVATION OF DISTRIBUTION DEVICE

DESIGNER SIGNATURE Arnell J. Baskin

LICENSE# 417

DATE 5-1-2018

MATT
STARR

Subsurface Sewage Treatment System Management Plan

Property Owner: MATT STARR Phone: 612-308-8218 Date: 5-1-2018
 Mailing Address: 3301 59TH AVE N City: BROOKLYN CENTER MN Zip: 55429
 Site Address: PEN 02-0-D14401 City: _____ Zip: _____

This management plan will identify the operation and maintenance activities necessary to ensure long-term performance of your septic system. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic service provider or maintenance provider.

System Designer: Recommends SSTS check every _____ months.
 Local Government: Recommends SSTS check every _____ months.
 State Requirement: Requires SSTS check every 36 months.
(State requirements are based on MN Rules Chapter 7080.2450, Subp. 2 & 3)

My System needs to be checked every _____ months.

Homeowner Management Tasks:

- Leaks* – Check (look, listen) for leaks in toilets and dripping faucets. Repair leaks promptly.
- Surfacing sewage* – Regularly check for wet or spongy soil around your soil treatment area.
- Effluent filter* – *Inspect and clean twice a year or more.*
- Alarms* – Alarm signals when there is a problem. Contact a service or maintenance provider any time an alarm signals.
- Event counter or water meter* – Record your water use.
 -recommend meter readings be conducted (circle one): DAILY WEEKLY MONTHLY N/A

Licensed septic service provider or maintenance provider (Check all that apply):

- Check to make sure tank is not leaking
- Check and clean the in-tank effluent filter (if exists)
- Check the sludge/scum layer levels in all septic tanks
- Recommend if tank should be pumped
- Check inlet and outlet baffles
- Check the drainfield effluent levels in the rock layer
- Check the pump and alarm system functions
- Check wiring for corrosion and function
- Check dissolved oxygen and effluent temperature in tank
- Provide homeowner with list of results and any action to be taken
- Flush and clean laterals if cleanouts exist

"I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in the Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions. If I have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system."

Property Owner Signature: Matt Starr Date: 5-1-18
 Designer Signature: David J. Bach Date: 5-1-18

Maintenance Log

Activity	Date Accomplished
Check frequently:	
Leaks: check for plumbing leaks	
Soil treatment area check for surfacing	
Lint filter: check, clean if needed	
Effluent screen: if owner-maintained	
Water usage rate (monitor frequency _____)	
Check annually:	
Caps: inspect, replace if needed	
Sludge & Scum/Pump	
Inlet & Outlet baffles	
Drainfield effluent leaks	
Pump, alarm, wiring	
Flush & clean laterals if cleanouts exists	
Other: _____	
Other: _____	

Notes: _____
