Lincoln-Lancaster County Health Department
ENVIRONMENTAL PUBLIC HEALTH DIVISION

005862

3140 N STREET · LINCOLN, NE 68510-1514

(402) 441-8000

Permit: SEWAGE INSTALLATION -REPRINT
LAGOON

Permit # 04380292901

Issued 11/10/04
Expires 05/10/05
Revenue Code 3157

Establishment: KEVIN STEELE
T12N R6E SEC 28
LOT 31

FEES: $200.00

Permittee: KEVIN STEELE
1106 N 66 ST
LINCOLN NE 68505

TOTAL: $200.00

Bruce D. Dart

Bruce D. Dart, Health Director

EPH COPY

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

RECEIVED NOV 10 2004

A

Permit Number: 043802929 01

Sewage Disposal System

Request for Site Clearance and Permit

Include Form B, Form C and Applicable Fees with this Application.

☐ Septic System ☒ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

PLEASE PRINT OR TYPE

A. System Location (Indicate correct number and street)

Address _____ (no rural route) City _____ NE, Zip _____

Legal Description W 1/2 (1/4) 1/4 28 (Section) 12N (Township) 6E (Range) 35 ACRES (Subdivision) 31 (Addition) I.L. (Block) (Lot)

Geographical Location (if known): Longitude _____ Latitude _____

☐ Check if system mail address is not the same as the owner's address

B. Owner

Name Kevin Steele Signature Kevin Steele

Address 1106 N. 66th St City/State/Zip Lincoln, NE 68505

☐ Check if owner designed system Home Phone 402-464-1312 Work Phone 402-610-0388

C. Contractor

Name Owner Company Name _____

Address _____ City/State/Zip _____

☐ Check if contractor designed system Work Phone _____

D. Engineer/Installer ☐ Check and complete if engineer designed system

Designer Name Lloyd Jakoubek Firm KRaymond Contracting Inc. Work Phone 402-890-6009

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 5 Is there a Whirlpool Bathtub (YES) NO

☐ Commercial Establishment/Other Facility Specify _____

Design flow in gallons per day_____ Type of Wastewater: ☐ Domestic ☐ Non-Domestic.

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☒ County Resolution No. 2832

1. **Health Department** (Rev, need design) Date rec'd 11/10/04 Date frwd 11/16/04 ACTION ☒ Approved ☐ Disapproved Signature Jerold C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 11-17-04 Date frwd 11-17-04 ACTION ☒ Approved ☐ Disapproved Signature _____
3. **City or County Engineer** Date rec'd 11-18-04 Date frwd 11-18-04 ACTION ☒ Approved ☐ Disapproved Signature Jim Ekouzek

Installation Final Written Approval

By Ron Mayfield

Date 8-1-05

Business Office Use Only

Date Rec'd 11/10/04

Amt Paid 200.00

Rec'd By _____ ~~Cash~~/Check No. 5548

FORM 23-100 10-96 White - Health Dept. Yellow - Engineer Pink - Bldg. Inspector

Percolation Test Data

1 D 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1

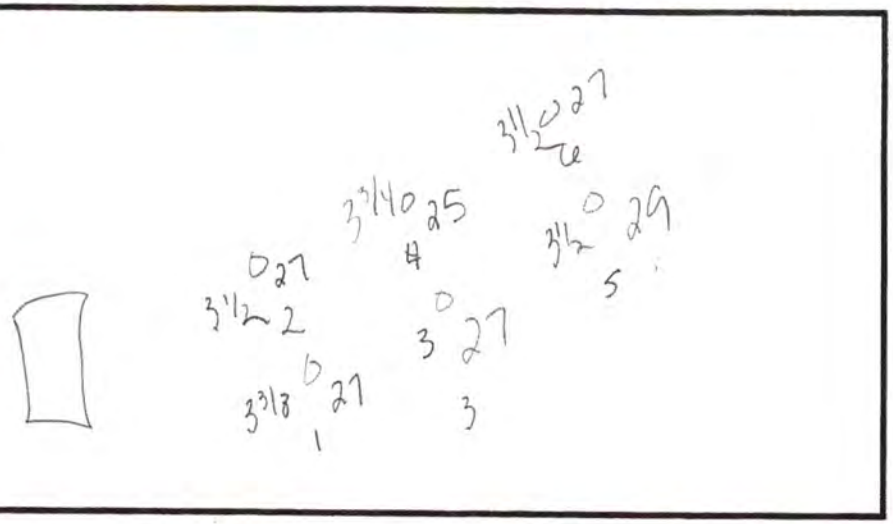
Raymond Contracting, Inc. Terri L Jakoubek 13800 NW 70th St Raymond, NE 68428 402-783-2663 Office 402-783-2341 Fax 402-890-3870 Mobile

System Location/Information: Kevin Steele

Owner Information:

Presoak Information
Date: 2-24 Start Time: 2:00 End Time: 4:00
Weather:
Notes:

Percolation Information
Date: 2-25 Start Time: 1:55 End Time: 2:25
Weather:
Notes:



			11'4	5'4	Start 1:55	Time 2:25			Time 2:55			Time 3:25			Time 3:55			Time 4:25		
Hole #	Depth	Out	+~~10.5~~	+~~4.5~~	Fill	Meas	Drop	Fill	Meas	Drop	Fill	Meas	Drop	Fill	Meas	Drop	Fill	Meas	Drop	Fill
1	27	3 3/8	14 5/8	8 5/8	9 1/8	9	1/8													
2	27	3 1/2	14 3/4	8 3/4	8 7/8	8 3/4														
3	27	3	14 1/4	8 1/4	8 3/4	8 3/8														
4	25	3 3/4	15	9	9 1/16	8 7/8														
5	29	3 1/2	14 3/4	8 3/4	9 1/8	8 7/8														
6	27	3 1/2	14 3/4	8 3/4	9 5/8	9 1/2														
7																				
8																				
9																				

	Time 4:55			Time 5:25			Time 5:55	
Hole #	Meas	Drop	Fill	Meas	Drop	Fill	Meas	Drop
1								
2								
3								
4								
5								
6								
7								
8								
9								

Water in all holes overnight

Results - *Water level drop in 30 minute intervals*

Hole	2:25	2:55	3:25	3:55	4:25	4:55	5:25	5:55	Perc Rates (min/in)
1	1/8								
2	1/8								
3	3/8								
4	3 1/16								
5	1/4								
6	1/8								
7									
8									
9									
Sum & Average of Perociation Rates									

Percolation Test Data

MAY 2 0 2005

Raymond Contracting, Inc. Terri L Jakoubek 13800 NW 70th St Raymond, NE 68428 402-783-2663 Office 402-783-2341 Fax 402-890-3870 Mobile

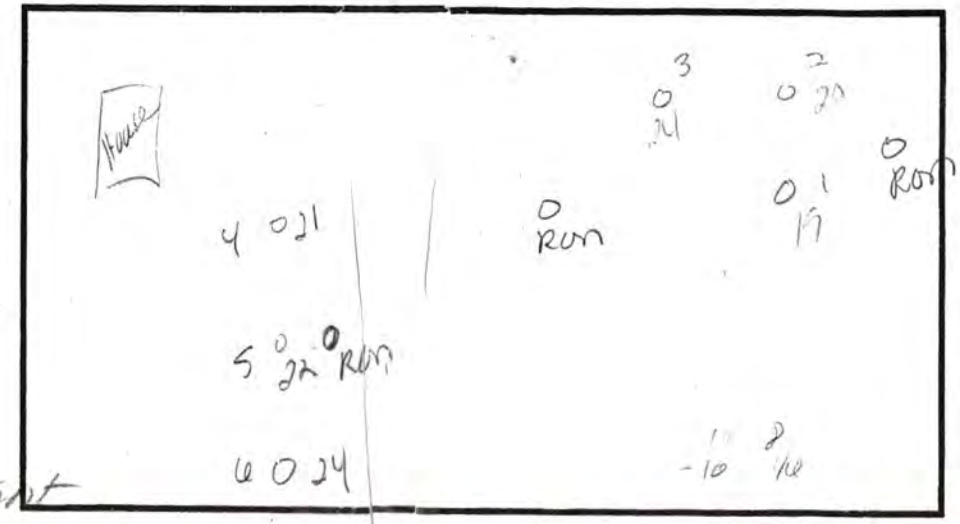
System Location/Information:

Owner Information:

Heiman Steele
Dewey Rd

Presoak Information
Date: 5-18 Start Time: 9:45 | 10:15 End Time: 1:45 | 2:15
Weather: (1,2,3)'(45,46)
Notes:

Percolation Information
Date: 5-19 Start Time: 9:15 End Time: 1:15
Weather: Warm, Sunny
Notes: 1.5 & 6 all had water overnight



					Start 9:15	Time 9:45			Time 10:15			Time 10:45			Time 11:15			Time 11:45		
Hole #	Depth	Out	+10.5	+4.5	Fill	Meas	Drop	Fill	Meas	Drop	Fill	Meas	Drop	Fill	Meas	Drop	Fill	Meas	Drop	Fill
1	19	4 1/2	15 3/4	9 3/4	10 3/16	10 3/16		—												
2	20	4 1/4	15 1/2	9 1/2	10 1/8	9 1/4		9 7/8	9		9 13/16	9		10	9 1/16		9 3/4	8 15/16		9 15/16
3	21	4 1/2	15 3/4	9 3/4	9 3/4	9 1/8		9 7/8	9 1/4		10	9 9/16		10	9 1/8		9 15/16	9 7/16		9 7/8
4	21	3	14 1/4	8 1/4	8 15/16	8 1/16		8 5/16	7 3/4		8 1/4	7 7/8		8 7/16	7 13/16		8 3/8	7 13/16		8 5/8
5	22	3	14 1/4	8 1/4	8 3/8	8 9/16		—	8 3/16											
6	24	4 5/8	12	10	9 13/16	11 9/16		—												
7																				
8																				
9																				

	Time 12:15			Time 12:45			Time 1:15	
Hole #	Meas	Drop	Fill	Meas	Drop	Fill	Meas	Drop
2 ~~1~~	9 1/16		10	9 1/16		9 3/4	8 7/8	
3 ~~2~~	9 3/8		9 7/8	9 3/8		9 3/4	9 1/4	
4 ~~3~~	7 15/16		7 15/16	7 11/16		8 5/8	7 13/16	
~~4~~								
5								
6								
7								
8								
9								

Results - *Water level drop in 30 minute intervals*

Hole	9:45	10:15	10:45	11:15	11:45	12:15	12:45	1:15	Perc Rates (min/in)
1	~~1~~	—							
2	7/8	7/8	13/16	15/16	13/16	7/8	15/16	7/8	
3	5/8	5/8	7/16	3/4	1/2	1/2	1/2	1/2	
4	7/8	9/16	3/8	5/8	9/16	11/16	7/8	13/16	
5	1/16	—							
6	3/16	—							
7									
8									
9									
Sum & Average of Perocolation Rates									

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

B

Permit Number:

Sewage Disposal System
Soil Absorption Test Data Report
Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 2751 W Davey Rd (no rural route) City Raymond NE, Zip 68428

Owner Kevin Steele Addresss 1100 N. 48th St, Lincoln, NE 68505

Soil Type (SCS): Kennebec/Judson Percolation Rate: 60 min./inch

Date of Tests 7/5/05 to 7/6/05 Weather: Precipitation 0 Temperature 90°

Percolation Test Data Table

A.	B.	C. D. E. F. Pre-Saturation Period				G. H. I. J. K. Percolation Readings					L. M. N. Results		
		Start		End		Start			End				
Hole No.	Hole Depth (in)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time (Min)	Water Level Drop (in)	Percolation Rates (Min/in)
1	24	7/5	9:45a	7/5	12:40p	7/6	9:a	6	7/6	12:40p	30	1/2	30/0.50 = 60
2	20	"	"	"	"	"	"	"	"	"	"	1/2	30/0.50 = 60
3	21	"	"	"	"	"	"	"	"	"	"	1	30/1.00 = 30
4	21	"	"	"	"	"	"	"	"	"	"	13/16	30/0.81 = 37
5	22	"	"	"	"	"	"	"	"	"	"	1	30/1.00 = 30
6	21	"	"	"	"	"	"	"	"	"	"	1/2	30/0.50 = 60

Sum of Percolation Rates: 277

Average of Rates: 46

Rate Used for Calculation: 60 (26 min variance)

Person Conducting Percolation Tests

Name: Terri Jakoubek, Raymond Central Health

Phone: 402-723-4463 or 402-890-3370 (cell)

Address 13800 NW 70th St

Raymond, NE 68428

1195

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks _____

Signature of Reviewing Official _____ Date _____

FORM 22-101 10-95

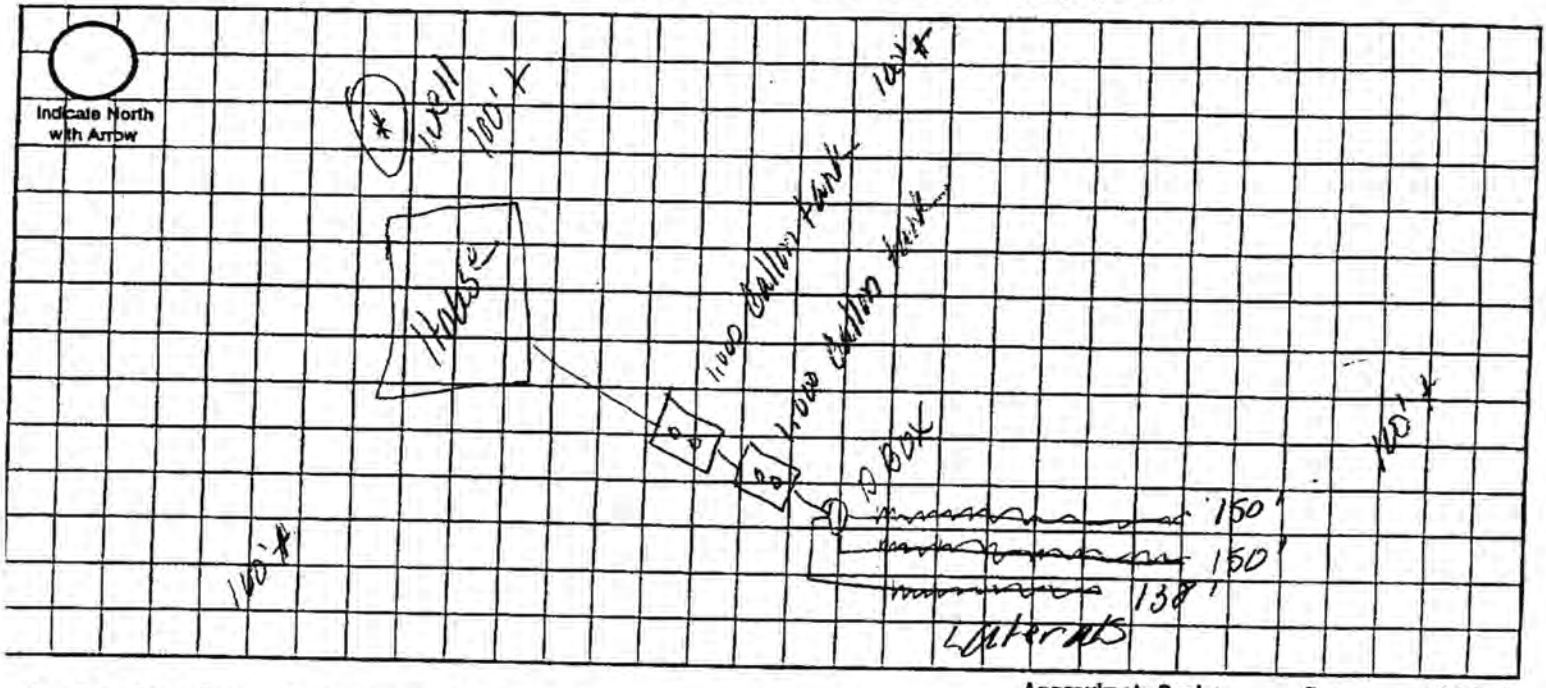
Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

C

Permit Number:

Sewage Disposal System
Preliminary Plan Specifications

Draw a plot plan showing system location, lines, distribution box, tank and laterals, percolation test hole locations, well, residence, compass direction and property lines. Indicate on drawing if residence and well are existing or proposed.



Approximate Scale: _____ ft. = _____ grid line/s

A. System Location (Indicate correct number and street)

Address (no rural route) 2751 W. Davey Rd City Raymond NE, Zip 68428

B. Proposed Septic Tank/s

Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____

C. Proposed Absorption System (See Form B for Percolation Information)

Percolation Rate 60 (min. per inch) Soil Type: Kennebec / Judson Land Slope: _____ %

Type of Absorption System: ☒ Trench ☐ Bed ☐ Other _____

Total Square Feet of Field Required: 1,750 sq. ft.

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☒ Other Lateral Material: H-10 Standard

Capacity of Septic Tank: 2,000 gals 2-1,000 gallon tanks Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals 438 ft. Number of Trenches 3 Trench Width 4'

D. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☑	500 ☑	50 ☑	NA ☐	25 ☑	20 ☑	15 ☑	25 ☑	☑
Field (ft)	100 ☑	500 ☑	50 ☑	4 ☑	30 ☑	20 ☑	30 ☑	40 ☑	☑
Lagoon (ft)	100 ☐	500 ☐	50 ☐	N/A ☐	30 ☐	50 ☐	100 ☐	200 ☐	☐

E. Required Signatures

Home Building Contractor Kevin Stutz Date 7/19/05

Installer Mark S. Jakoubek Date 7-15-05

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

D

Permit Number:

Sewage Disposal System

As Built Plans & Specifications

Date 7/30/05 Kevin Steele

System Location (Indicate correct number and street)

Address 2751 W Davey Rd. (no rural route) City Davey Raymond NE, Zip 68428

A. Building Sewer

1. Material: class 160.
   Diameter: 4 in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: 12 in.
3. Distance between dwelling and septic tank: 141 ft.
4. Number of clean-outs: 2
5. Distances to: well or suction line 100+ ft.
   stream 100+ ft.
   pressure line 100+ ft.
   property line 100+ ft.

B. Septic Tank

1. Material: concrete
   Number of compartments: one
2. Capacity: 2-1000 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 18 in.
   Over outlet, diameter 18 in.
   Riser: ☐ above ☐ below grade 18 in.
5. Inlet: ☒ baffle ☐ tee
6. Outlet: ☒ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: 16 in.
8. Distances to: Well or suction line 100+ ft.
   Stream 100+ ft.
   Pressure line 100+ ft.
   Property line 100+ ft.

C. Distribution Box

1. Material: Plastic
   Number available outlets: 3
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 6' ft.

D. Absorption Field

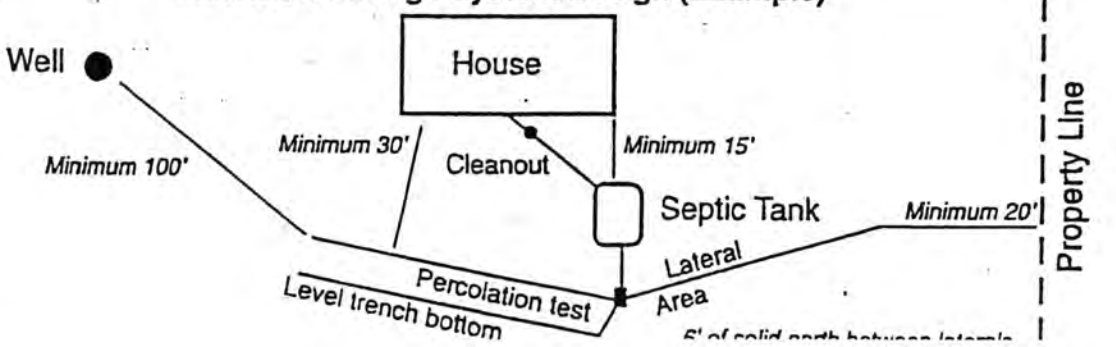
(Provide as-built drawings on back of this form)

1. Type: ☒ Half rounds ☐ Perforated pipe
   Diameter of half round: 34" x 12" Tn-11
   or perforated pipe: _____
   Material: ☒ fiberglass ☒ plastic ☐ concrete
   ☐ other _____
2. Lateral lines: Number 3
   Length of each line: 150 ft. 150 ft.
   139' ft. _____ ft., _____ ft.
3. Trench dimensions: Width 40" ft.
   Slope FLAT in/100 ft.
   Average depth 29-24 in
4. Filter material: Dirt
   Depth of material 29"-24" in.
5. Distances to: Well or suction line 100+ ft.
   Stream 100+ ft.
   Pressure line 100+ ft.
   Property line 100+ ft.

Complete "As Built" drawing on back of this form.

Indicate North with Arrow

Individual Sewage System Design (Example)



As Built Drawing



facsimile

Raymond Contracting, Inc.

Raymond Contracting Inc
Lloyd J Jakoubek
13800 NW 70th Street
Raymond, NE 68428
402 783-2663 Telephone
402 890 6009 Cellular
402 783 2341 Fax

to **Ron Marquart**

fax number **402-441-6206**	company **LLCHD**
from **Terri Jakoubek**	date **July 27, 2005**
total number of pages including this cover **3**	If you do not receive all pages, please call **402-783-2663 (Terri)**

comments **CONFIDENTIAL**

Ron,

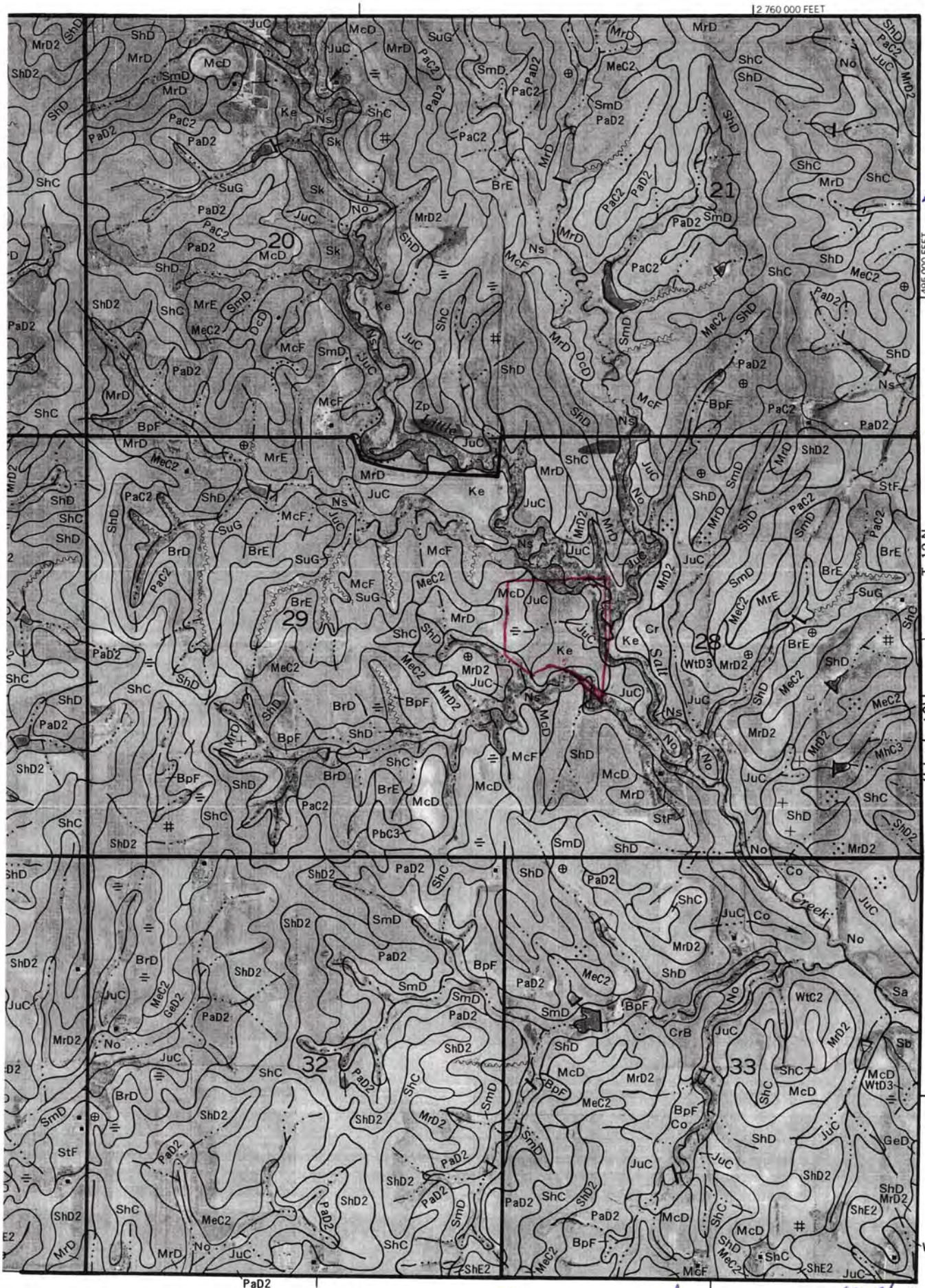
Lloyd will be installing the septic system for Kevin Steele at 2751 W Davey Rd on 7/28 and 7/29. (You did a perc test with me at this site in May.)

I'm faxing updated B & C Sheets (original permit was submitted as Lagoon). I did get passing results to the south of the dirt/road path between the house and the pit they dug for clay. They holes I did on the north side of the dirt road/path by the drainage way did not pass – the best out of 4 holes was 5/16.

Lloyd will call to confirm inspection.

Please feel free to call with any questions.

Thanks,
Terri Jakoubek
402-783-2663 (Office)
402-890-3870 (Mobile)
402-783-2341 (Fax)

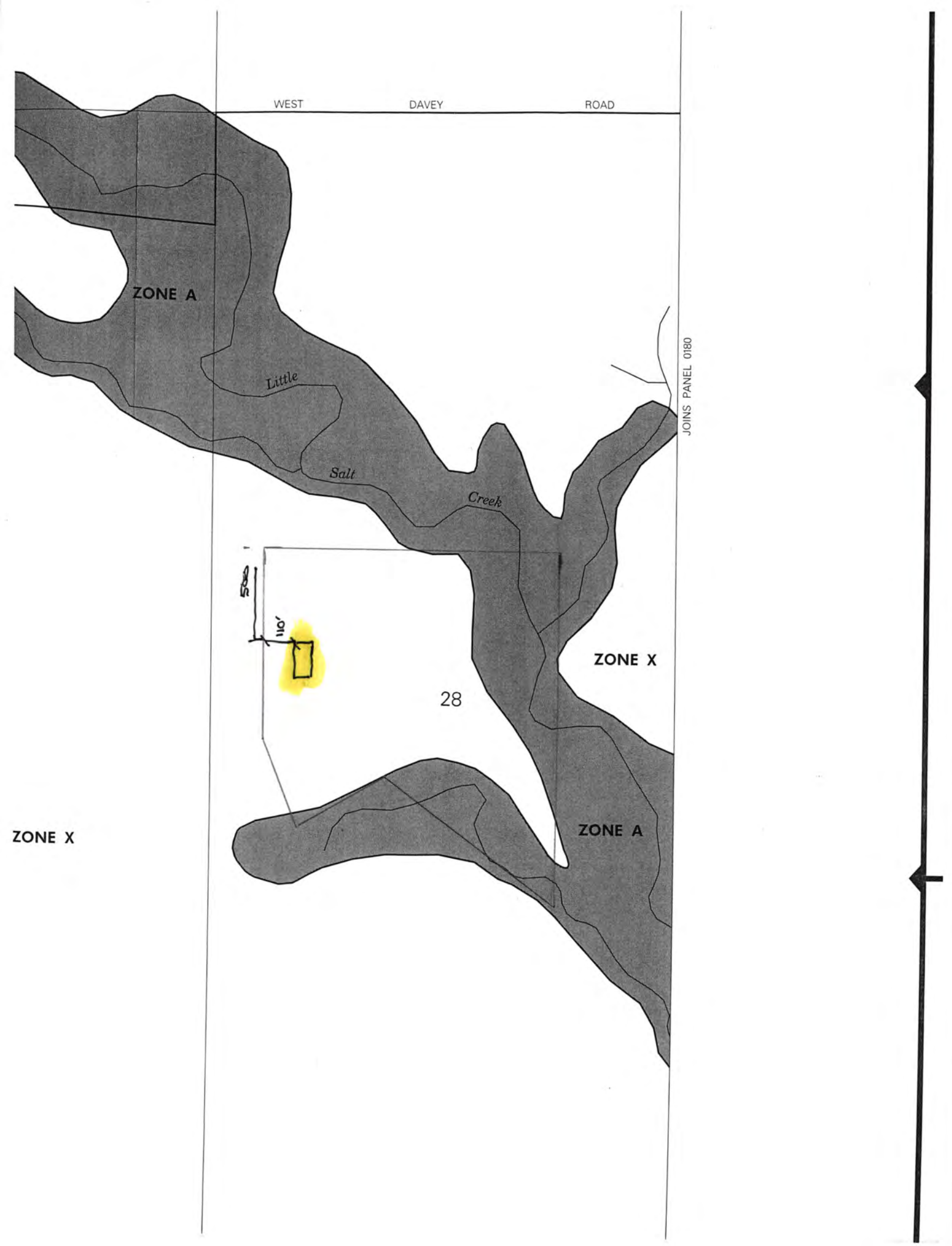


MrD. Marshall clay loam

Ns: Nodaway silt loam occasionally flooded. Less common frequently flooded

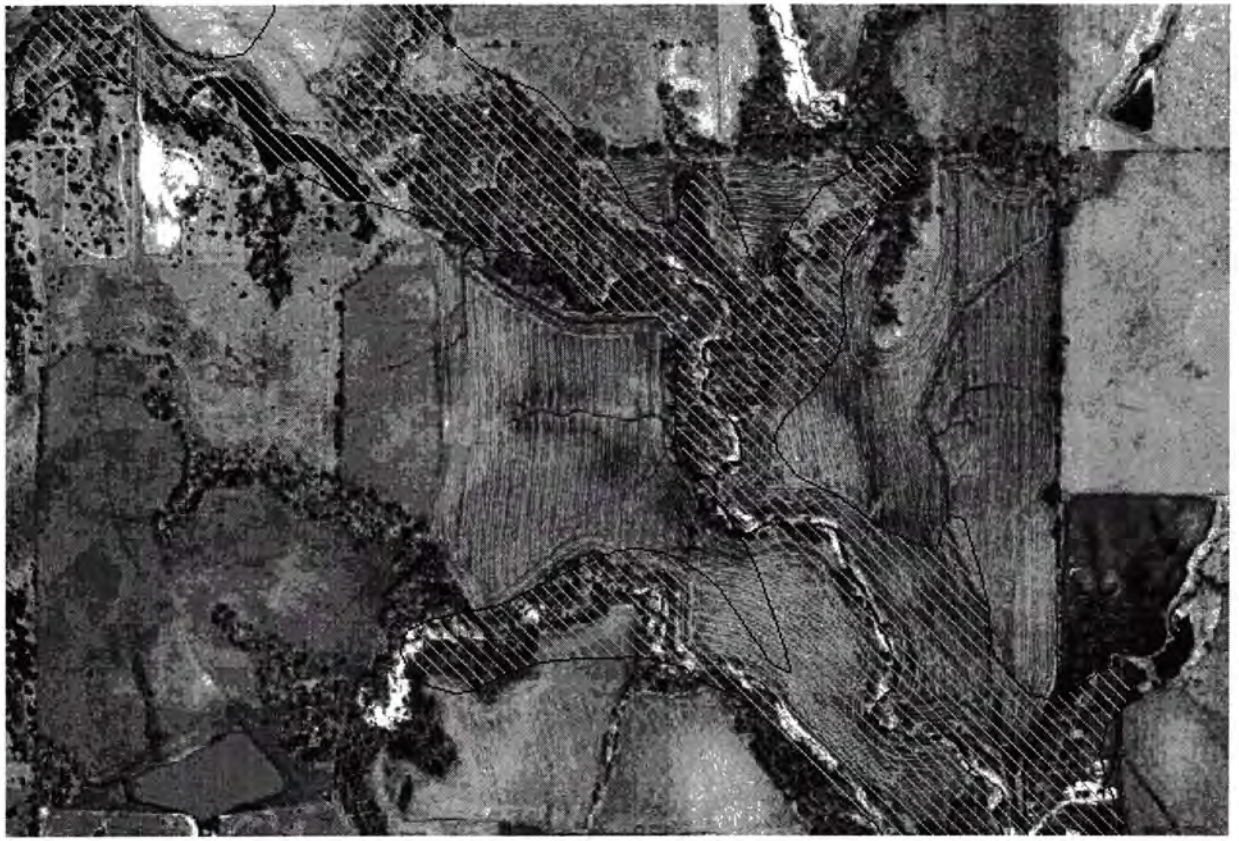
McD: Wabash silt loam water table 6 ft

MeC2: Mayberry silty clay loam


WEST
DAVEY
ROAD
ZONE A
Little
Salt
Creek
JOINS PANEL 0180
ZONE X
28
ZONE A
ZONE X

ESRI ArcExplorer 2.0

Sec. 28 ,T12n , R6E



streets

flood1

N

Tuesday, May 17 2005