Lincoln-Lancaster County Health Department

ENVIRONMENTAL PUBLIC HEALTH DIVISION

3140 N STREET · LINCOLN, NE 68510-1514

003379

(402) 441-8000

Permit SEWAGE INSTALLATION
LAGOON

Permit # 04380278401

Issued 02/24/04
Expires 08/24/04
Revenue Code 3157

Establishment ABRAM & ROSAURA MORALES
T9N R8E SEC 18
S 1/2 LOT 33IT
6601 S 120 ST

FEES: $200.00

Permittee ABRAM & ROSAURA MORALES
2600 S 48 ST
APT 17
LINCOLN NE 68506-2502

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

A

Permit Number: 04380278401

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 6601 South 120th (no rural route) City Lincoln NE, Zip _____

Legal Description Lot 33 S½ 18 - 9N - 8E 33 F.T.
1/4 1/4 Section Township Range Subdivision Addition 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 Abraham & Rosemary Morales Signature _____

Address _____ City/State/Zip _____

☐ Check if owner designed system Home Phone _____ Work Phone _____

C. Contractor

Name Richard Robison Company Name Robison Construction

Address 1221 Evergreen Drive City/State/Zip Lincoln NE 68510

☐ Check if contractor designed system Work Phone 488-5650 730-2807

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

Designer Name _____ Firm _____ Work Phone _____

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 6 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** Date rec'd 2/24/04 Date frwd 2/25/04 ACTION ☒ Approved ☐ Disapproved Signature Kerrold C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 2-25-04 Date frwd 2-25-04 ACTION ☒ Approved ☐ Disapproved Signature _____
3. **City or County Engineer** Date rec'd 2/25/04 Date frwd 2/25/04 ACTION ☒ Approved ☐ Disapproved Signature Leann Curtis

5/5/05 Need drawing of [illegible]

Installation Final Written Approval

By Kerrold C. Hood R.E.H.S.

Date FEBRUARY 13, 2006

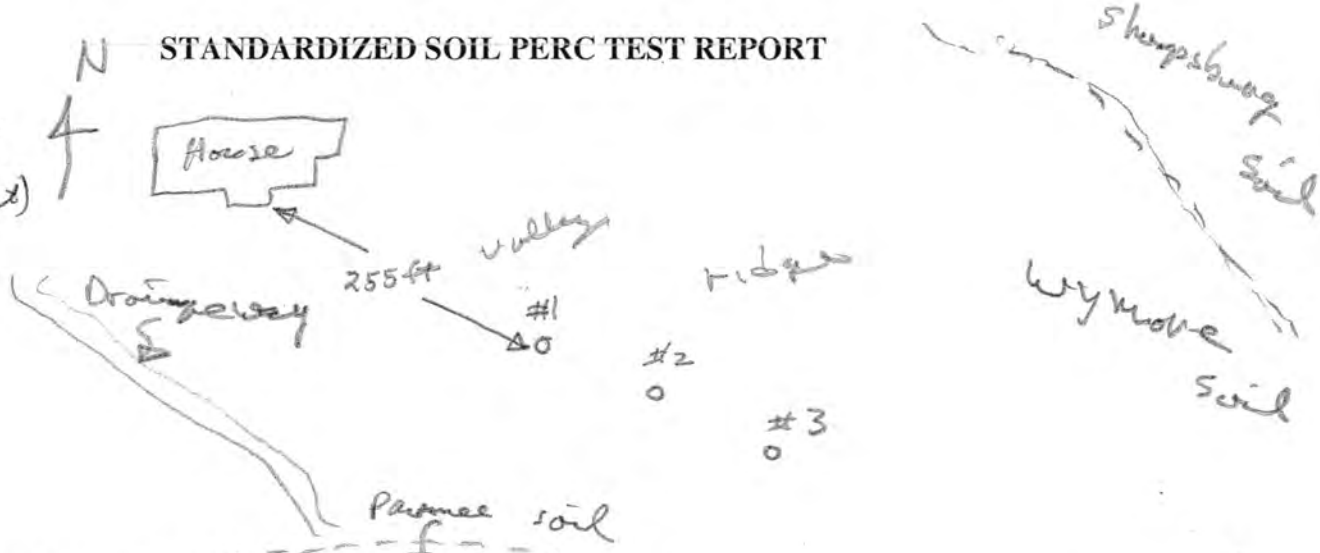
Business Office Use Only
Date Rec'd 2-23-04
Amt Paid 200.00
Rec'd By TW Cash/Check No. 19392

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

STANDARDIZED SOIL PERC TEST REPORT

Site Diagram:

Legal, 18-9-8
(Feb-3-04 permit) takenout



Soil Type: USDA soil map indicate Wymore silty clay loam soil (a wind blown soil) overlying Pawnee clay loam soil (glacial till). A previous perc test by installer revealed a groundwater problem near drainage way. A 24" test hole had water in it for several days after the test.

This site is in a highly eroded area and much of the Wymore soil has eroded away and thus the Pawnee soil boundary is ~~extended~~ further north than indicated on soil map. It appears that much of the upper horizon of Wymore has eroded away and the lower horizon is now exposed even high up slope on the ridge SE. of houses. This would account for the faster perc rates in 2 of the 3 holes. The 3rd hole was into the upper horizon of the Pawnee soil & it's perc rate failed.

Perc Rate:

Presoak start, 3-11-05 @ 10:00AM

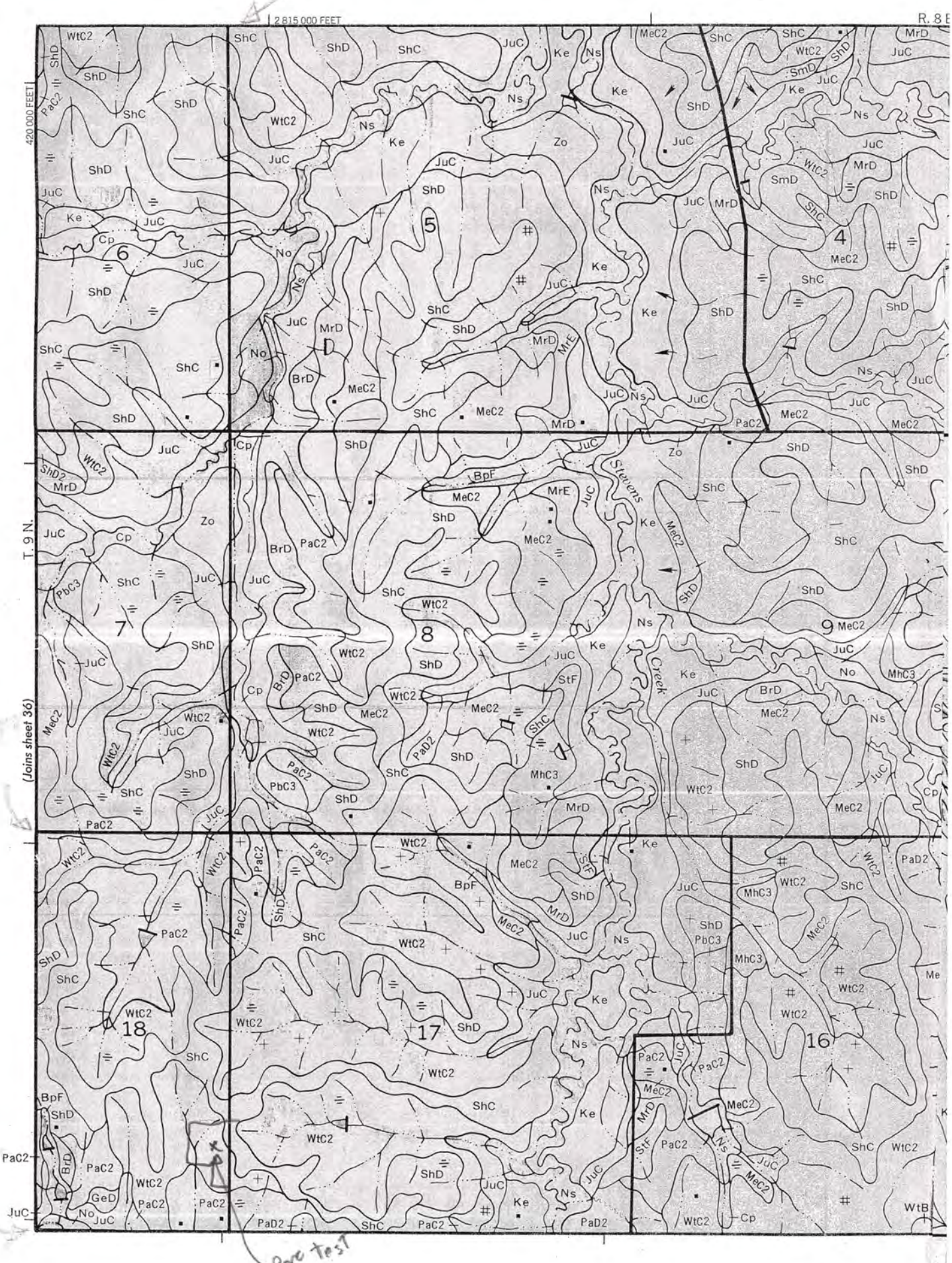
Perc test start 3-12-05 @ 10:00 AM

- Hole #1 (25" deep) had 1/2" to 3/4" long ribbon, and soil was at the plastic limit (PL) near bottom of hole. this hole had a stabilized water level drop after 2 hrs. of 30 min interval measurements. the last two consecutive drops were 2 7/8" and 2 7/8" for a perc rate of 10 mpi.
- Hole #2 (25" deep) had 1/2" to 1" ribbon at the PL near bottom of hole. After 2 hrs., the water level drop at 30 min. intervals, stabilized at 9/16" + 9/16" for a perc rate of 53 mpi.
- Hole #3 (24" deep): A 1-2" ribbon: at the PL near bottom of hole. water still in hole after presoak. Had to bail water out to 6" level for test. water level stabilized at 2 hrs. at 3/16 + 3/16 for a perc rate of 160 mpi.

Comments:

Because of the location of the house, the deep stub out of sewer below the footings, and the location of possibly enough suitable soil for a conventional absorption field for this onsite system, a lift pump will be needed. Gravity flow to the absorption field cannot be achieved.

A engineer-designed alternative onsite system or a lagoon further down slope but east of drainageway an adequate distance above seasonal groundwater is recommended. Gravity flow should be possible to this area


2 815 000 FEET
R. 8 E
420 000 FEET
T. 9 N.
(Joins sheet 36)
Stevens Creek
5
6
4
7
8
9
18
17
16
WtC2
ShD
ShC
JuC
Ke
Ns
Zo
MeC2
MrD
MrE
BrD
PaC2
PaD2
BpF
StF
MhC3
PbC3
SmD
Cp
No
GeD
WtB

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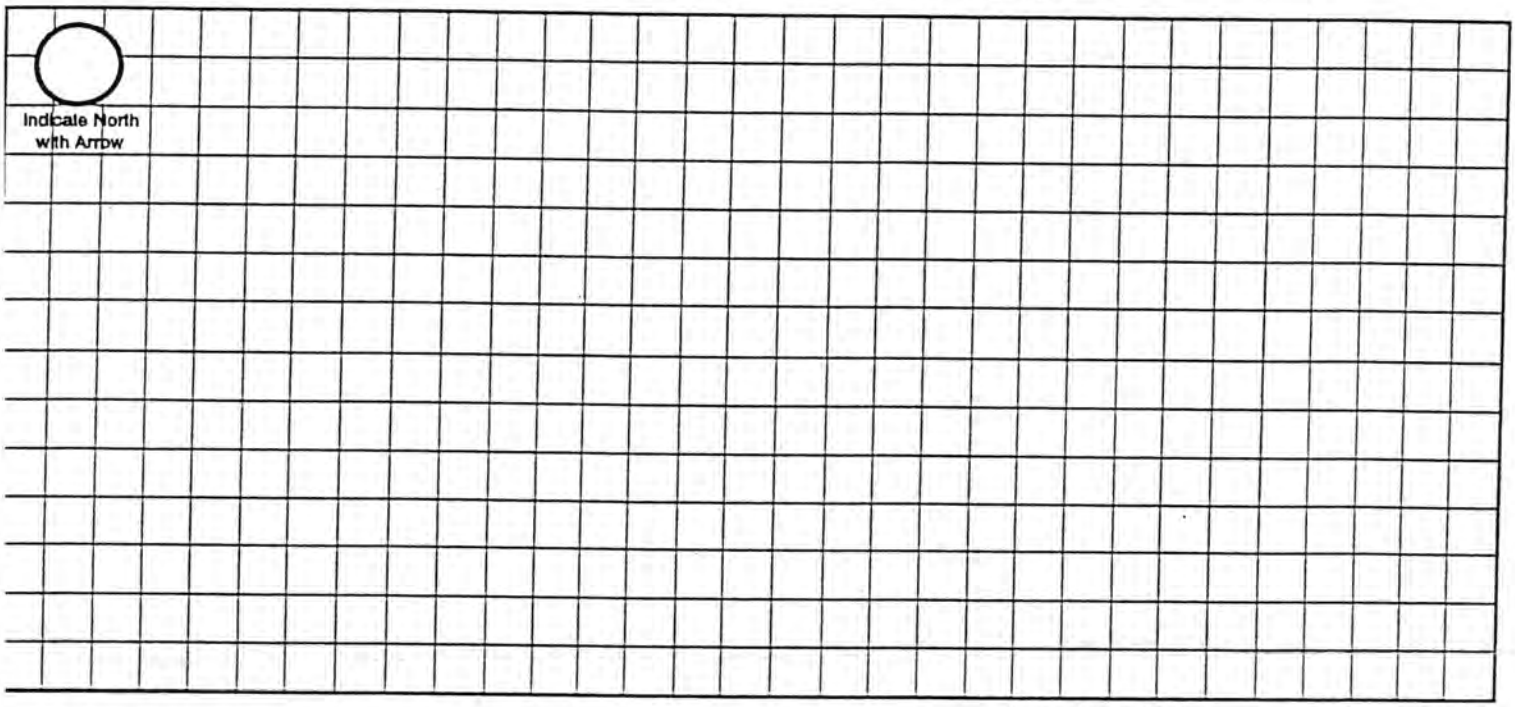
C

Permit Number: 04380278C

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) _____ City _____ NE, Zip _____

B. Proposed Septic Tank/s

Tank Material: ☐ Concrete ☐ Plastic ☐ Other _____

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

Percolation Rate _____ (min. per inch) Soil Type: _____ Land Slope: _____ %

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

Total Square Feet of Field Required: _____ sq. ft.

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☐ Other Lateral Material: _____

Capacity of Septic Tank _____ gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals _____ ft. Number of Trenches _____ Trench Width _____

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 _____ Date 2/23/09

Installer _____ Date _____

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D

Permit Number:

Sewage Disposal System
As Built Plans & Specifications

FAX TO JERRY HOOD

Date 5/9/05

System Location (Indicate correct number and street)

Address 6601 S 120TH City Lincoln NE, Zip _____
(no rural route)

A. Building Sewer

1. Material: CLS 160
   Diameter: 4 in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: 40 in.
3. Distance between dwelling and septic tank: _____ ft.
4. Number of clean-outs: WASHER 4
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: _____
   Number of compartments: _____
2. Capacity: _____ gal.
3. Factory built: ☐ Yes ☐ No
4. Manholes: Over inlet, diameter _____ in.
   Over outlet, diameter _____ in.
   Riser: ☐ above ☐ below grade _____ in.
5. Inlet: ☐ baffle ☐ tee
6. Outlet: ☐ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: _____ in.
8. Distances to: Well or suction line _____ ft.
   Stream _____ ft.
   Pressure line _____ ft.
   Property line _____ ft.

C. Distribution Box

1. Manufacturer: _____
   Number of available outlets: _____
2. Factory built: ☐ Yes ☐ No
3. Distance from septic tank: _____ ft.

D. Absorption Field

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

1. Type: ☐ tile (round) ☐ Perforated pipe
   Diameter of tile (round): _____
   Perforations (pipe): _____
   Material: ☐ fiberglass ☐ plastic ☐ concrete
   ☐ other _____
2. Lateral lines: Number _____
   Length of each line: _____ ft. _____ ft.
   _____ ft. _____ ft., _____ ft.
3. Trench dimensions: Width _____ ft.
   Slope _____ in/100 ft.
   Average depth _____ in
   Gravel or filter material _____
   Depth of material _____ in.
4. Distances to: Well or suction line _____ ft.
   Stream _____ ft.
   Pressure line _____ ft.
   Property line _____ ft.

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

Indicate North with Arrow

Individual Sewage System Design (Example)



FORM 23-103 10-96

As Built Drawing

