Lincoln-Lancaster County Health Department

ENVIRONMENTAL HEALTH DIVISION
3140 N STREET · LINCOLN, NE 68510-1514 (402) 441-8000

Permit

SEWAGE INSTALLATION
SEPTIC SYSTEM

Permit # 02380251501

Issued 08/08/02
Expires 02/08/03
Revenue Code 3157

FEES: $200.00

Establishment

JAMES & SANDRA UNVERFERTH
T12N R6E SEC 28 QTR SW
IRREGULAR TRACT LOT 18IT
2700 W BRANCHED OAK RD-RAYMOND

Permittee

JAMES & SANDRA UNVERFERTH
5841 GILLAN RD
LINCOLN NE 68505

TOTAL: $200.00

Bruce D. Dart

Bruce D. Dart, Health Director

• POST IN A PROMINENT PLACE • NOT TRANSFERABLE

002777

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

A

Permit Number: 023802515

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 2700 W. BRANCHED OAK RD (no rural route) City RAYMOND NE, Zip 68428

Legal Description Lot 18 SW 28 12N 6E 18 I.L.
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 JAMES & SANDRA UNDERFERTH Signature James Underfirth

Address 5841 GILLAN RD City/State/Zip LINCOLN NE 68505

☐ Check if owner designed system Home Phone 466-1678 Work Phone _____

C. Contractor

Name BILL BARCLAY Company Name BARCLAY CONSTRUCTION

Address 6419 BOXELDER DR City/State/Zip LINCOLN NE 68504

☐ Check if contractor designed system Work Phone 416-9798

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

Designer Name Melvin Wagner Firm EAGLER Work Phone 432-5698

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 2 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 8/8/02 Date frwd 8/8/02 ACTION ☒ Approved ☐ Disapproved Signature Jerold C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 8-8-02 Date frwd 8-8-02 ACTION ☒ Approved ☐ Disapproved Signature
3. **City or County Engineer** Date rec'd 8/8/02 Date frwd 8/8/02 ACTION ☒ Approved ☐ Disapproved Signature

9-23-02, mm

Installation Final Written Approval

By Ron Mayfield

Date 9-23-02

Business Office Use Only

Date Rec'd 8-8-02
Amt Paid 200.00
Rec'd By TW Cash/Check No. 8599

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

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

B

Permit Number: 02380251S

Sewage Disposal System

Soil Absorption Test Data Report

Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 2700 W. BRANCH OAK RD (no rural route) City RAYMOND NE, Zip 68428

Owner JAMES UNVERFERTH Addresss 5841 GILLAN RD LINCOLN NE 68505

Soil Type (SCS): SHELBY CLAY LOAM Percolation Rate: _____ min./inch

Date of Tests 4-4-02 to 4-5-02 Weather: Precipitation CLEAR Temperature 50°-60°

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	36	4-4	2:00	4-4	6:00	4-5	2:00	6	4-5	6:00	30	.75	40
2	36	4-4	2:01	4-4	6:01	4-5	2:01	6	4-5	6:01	30	2.25	13.33
3	36	4-4	2:02	4-4	6:02	4-5	2:02	6	4-5	6:02	30	4.25	7.06
4	38	4-4	2:03	4-4	6:03	4-5	2:03	6	4-5	6:03	30	3.75	8.
5	36	4-4	2:04	4-4	6:04	4-5	2:04	6	4-5	6:04	30	3.75	8.
6	37	4-4	2:05	4-4	6:05	4-5	2:05	6	4-5	6:05	30	2.25	13.33
7	36	4-4	2:06	4-4	6:06	4-5	2:06	6	4-5	6:06	30	3.00	10.

Person Conducting Percolation Tests

Name: JAMES UNVERFERTH
Phone: 466-1678
Address 5841 GILLAN RD
LINCOLN NE 68505

Sum of Percolation Rates: 99.72
Average of Rates: 14.25
Rate Used for Calculation: 40

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks _____

Signature of Reviewing Official Jerrold C. Wood R.E.H.S. Date AUGUST 8, 2002

FORM 23-101 10-96

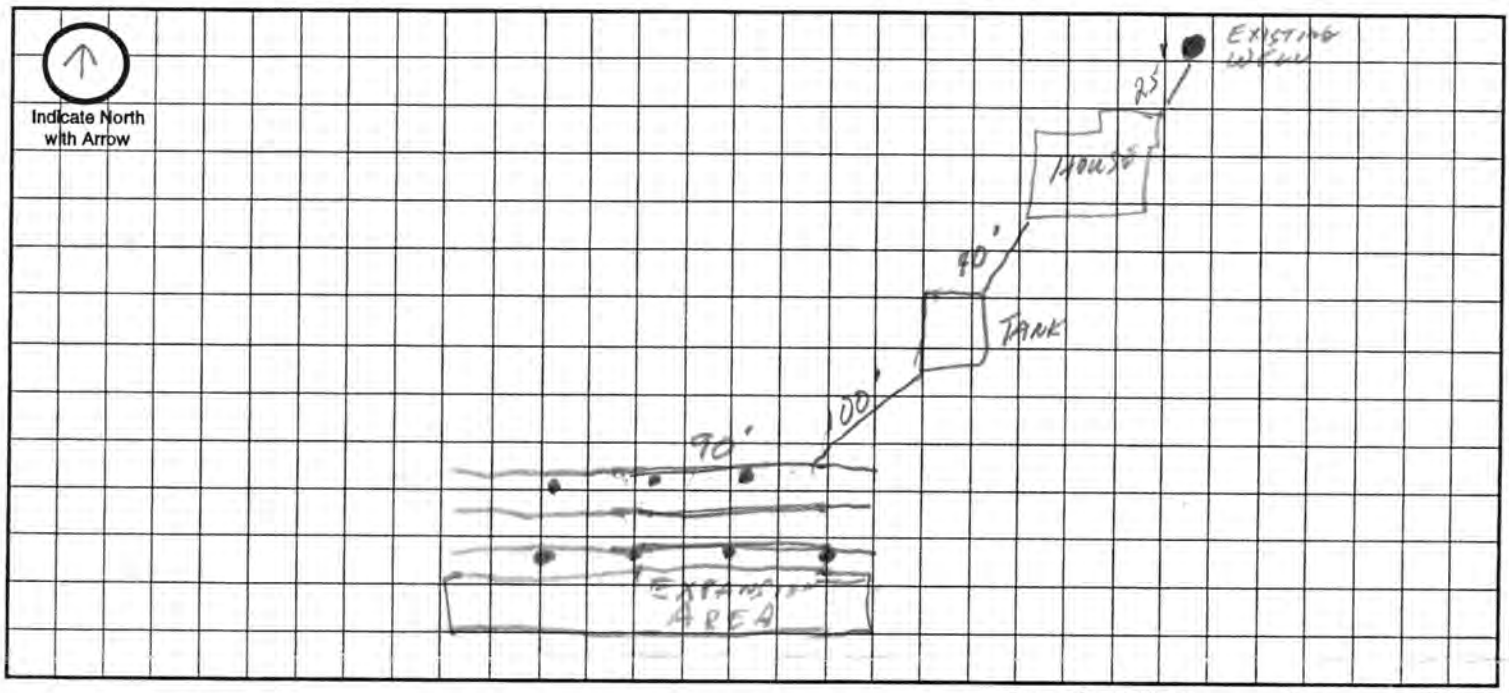
Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

C

Permit Number: 023802515

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) 2700 W BRANCHED OAK 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 40 (min. per inch) Soil Type: SHELBY CLAY LOAM Land Slope: _____ %

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

Total Square Feet of Field Required: 550 sq. ft.

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

Capacity of Septic Tank 1000 gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals 270 ft. Number of Trenches 3 Trench Width 3'

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 Ted Bigsby Date Aug 2, 2002

Installer Melvin Hogren Date 2 Aug 02

FORM 23-102 10-96

Lincoln-Lancaster County Health Department
Environmental Health Division
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Phone: 402-441-8022

D

Permit Number:

Sewage Disposal System

As Built Plans & Specifications

Date 10/22/01

System Location (Indicate correct number and street)

Address 2700 W BRANCH Old Rd. City RAYMOND NE, Zip 68423
(no rural route)

A. Building Sewer

1. Material: PVC
   Diameter: 4" in.
2. Distance above basement floor: N/A in.
   or distance below basement floor: 12 in.
3. Distance between dwelling and septic tank: 25ft ft.
4. Number of clean-outs: 2
5. Distances to: well or suction line OVER 100 ft.
   stream OVER 50 ft.
   pressure line OVER 50 ft.
   property line OVER 50 ft.

B. Septic Tank

1. Material: POLY-THYLENE
   Number of compartments: 1
2. Capacity: 1250 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 24 in.
   Over outlet, diameter 24 in.
   Riser: ☒ above ☐ below grade ____ in.
5. Inlet: ☐ baffle ☒ tee
6. Outlet: ☐ baffle ☒ tee
7. Depth to top of tank, below unfinished grade: 30 in.
8. Distances to: Well or suction line OVER 100 ft.
   Stream OVER 50 ft.
   Pressure line OVER 10 ft.
   Property line OVER 20 ft.

C. Distribution Box

1. Material: PLASTIC
   Number available outlets: 7
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 156 ft.

D. Absorption Field

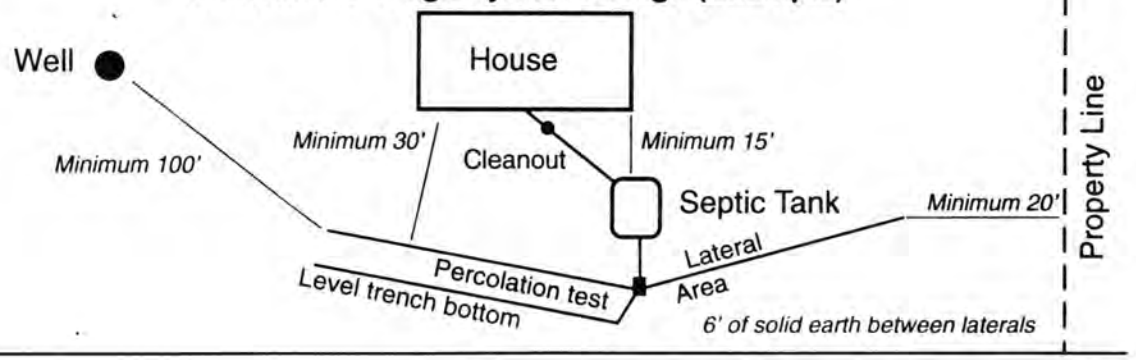
(Provide as-built drawings on back of this form)

1. Type: ☐ Half rounds ☒ Perforated pipe
   Diameter of half round: ____
   or perforated pipe: 4"
   Material: ☐ fiberglass ☒ plastic ☐ concrete
   ☐ other ____
2. Lateral lines: Number 3
   Length of each line: 80 ft. 88 ft.
   122 ft. ____ ft., ____ ft.
3. Trench dimensions: Width 36 ft.
   Slope 0 in/100 ft.
   Average depth 30 in
4. Filter material: GRAVEL
   Depth of material 12 in.
5. Distances to: Well or suction line OVER 100 ft.
   Stream OVER 50 ft.
   Pressure line OVER 25' ft.
   Property line OVER 20 ft.

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

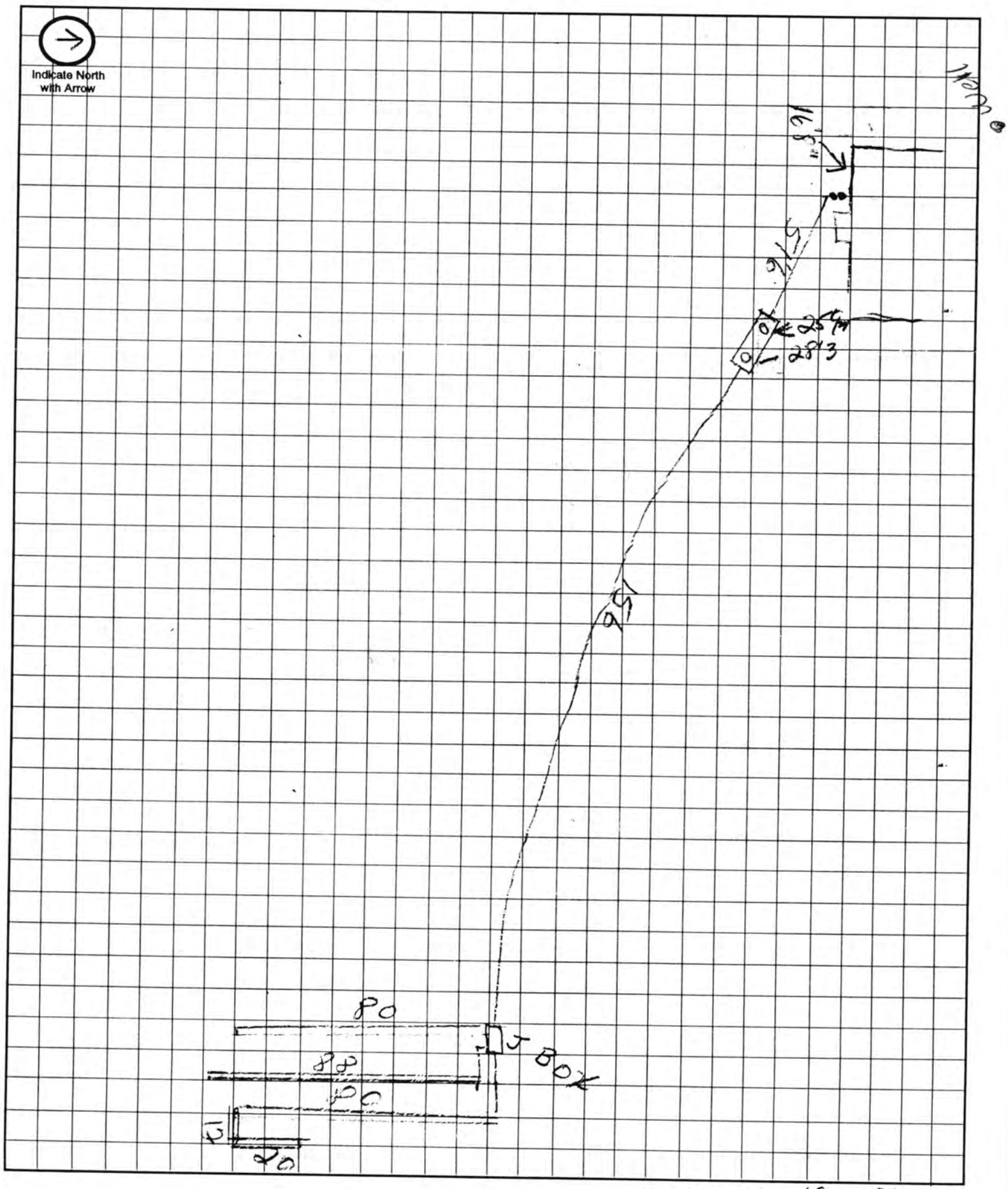
Indicate North with Arrow

Individual Sewage System Design (Example)



FORM 23-103 10-96

As Built Drawing



Approximate Scale: 10 ft. = 4 grid line/s