1 BEDROOM HOUSE

JOB NO. 16-066

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, 11 SHS
(207) 287-5672 FAX (207) 287-4172

PROPERTY LOCATION

City, Town, or Plantation	BOWDOIN
Street or Road	297 WEST ROAD
Subdivision Lot #	LOT 3

OWNER/APPLICANT INFORMATION

Name (last,first,MI) ROWE, JUDITH — ■ Owner ☐ Applicant

Mailing Address Of Owner Applicant: 5 JOSEPHINE STREET, LISBON FALLS, ME. 04252

Daytime Tel. #: 344-7392

Owner or Applicant Statement

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit

Signature of Owner or Applicant _____ Date _____

›› CAUTION: LPI APPROVAL REQUIRED ‹‹

Town/City Bowdoin Permit # 1884

Date Permit Issued 7/18/16 Fee: $ 150 Double Fee Charged ( )

Local Plumbing Inspector Signature _____ L.P.I. # 0825

The Subsurface Wastewater Disposal System **shall not** be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # 9 Lot # 19-0

TO BE COMPLETED BY APPLICANT

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application

Local Plumbing Inspector's Signature _____ (1st) Date Approved _____ (2nd) Date Approved _____

PERMIT INFORMATION

TYPE OF APPLICATION

☐ 1. First Time System
■ 2. Replacement System
Type Replaced: STONE BED
Year Installed: 1985±
☐ 3. Expanded System
☐ a. <25% Expansion
☐ b. >25% Expansion
☐ 4. Experimental System
☐ 5. Seasonal Conversion

SIZE OF PROPERTY

7± ☐ sq. ft. ■ acres

SHORELAND ZONING

☐ Yes ■ No

THIS APPLICATION REQUIRES

■ 1. No Rule Variance
☐ 2. First Time System Variance
☐ a. Local Plumbing Inspector Approval
☐ b. State & Local Plumbing Inspector Approval
☐ 3. Replacement System Variance
☐ a. Local Plumbing Inspector Approval
☐ b. State & Local Plumbing Inspector Approval
☐ 4. Minimum Lot Size Variance
☐ 5. Seasonal Conversion Permit

DISPOSAL SYSTEM TO SERVE:

■ 1. Single Family Dwelling Unit, No. of Bedrooms: 1
☐ 2. Multiple Family Dwelling, No. of Units: _____
☐ 3. Other: _____ (specify)
Current Use ☐ Seasonal ■ Year Round ☐ Undeveloped

DISPOSAL SYSTEM COMPONENTS

☐ 1. Complete Non-Engineered System
☐ 2. Primitive System (graywater & alt. toilet)
☐ 3. Alternative Toilet, specify: _____
☐ 4. Non-Engineered Treatment Tank (only)
☐ 5. Holding Tank, _____ Gallons
■ 6. Non-Engineered Disposal Field (only) SEE NOTE ON PG. 3
☐ 7. Separated Laundry System
☐ 8. Complete Engineered System (2000 gpd or more)
☐ 9. Engineered Treatment Tank (only)
☐ 10. Engineered Disposal Field (only)
☐ 11. Pre-treatment, specify: _____
☐ 12. Miscellaneous Components

TYPE OF WATER SUPPLY

☐ 1. Drilled Well ■ 2. Dug Well ■ 3. Private
☐ 4. Public ☐ 5. Other: EXISTING

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

■ 1. Concrete
■ a. Regular, or
■ b. Low Profile (as required)
☐ 2. Plastic SEE NOTE
☐ 3. Other ON PG. 3
CAPACITY 1,000 gallons

DISPOSAL FIELD TYPE / SIZE

☐ 1. Stone Bed ☐ 2. Stone Trench
■ 3. Proprietary Device 600 Sq.Ft.
☐ a. Cluster Array ■ c. Linear
■ b. Regular Load ☐ d. H-20 Load
■ 4. Other ENVIRO SEPTIC PIPE
SIZE 120 ☐ sq. ft. ■ lin. ft.

GARBAGE DISPOSAL UNIT

■ 1.No ☐ 2.Yes ☐ 3.Maybe
if Yes or Maybe, Specify one below:
☐ a. multi-compartment tank
☐ b. ___'tanks in series
☐ c. increase in tank capacity
☐ d. Filter on Tank Outlet
☐ e. TO BE REMOVED

DESIGN FLOW

180 gallons per day

BASED ON:
■ 1. Table 4A (dwelling unit(s)
☐ 2. Table 4C (other facilities)
SHOW CALCULATIONS FOR OTHER FACILITIES

☐ 3. Section 4G (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE 5 / CONDITION B
at Observation Hole # 1
Depth N/O
OF MOST LIMITING SOIL FACTOR

DISPOSAL FIELD SIZING

■ 1. Medium – 2.6 sq. ft./gpd
☐ 2. Medium-Large – 3.3 sq. ft./gpd
☐ 3. Large – 4.1 sq. ft./gpd
☐ 4. Extra Large – 5.0 sq. ft./gpd

EFFLUENT/EJECTOR PUMP

☐ 1. Not required
■ 2. May be required
☐ 3. Required
Specify only for engineered systems:
Dose: _____ Gallons

LATITUDE AND LONGITUDE

at center of disposal area
Lat. 44 d 03 m 46.3 s
Lon. 70 d 00 m 25.6 s
if g.p.s., state margin of error +/- 30'

SITE EVALUATOR'S STATEMENT

I Certify that on 6/7/2016 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

USE ONLY COPIES STAMPED WITH SITE EVALUATOR'S SEAL IN BLUE INK FOR CONSTRUCTION AND PERMITS

STATE OF MAINE GEORGE S. BOUCHLES #338 LICENSED SITE EVALUATOR

George S. Bouchles — 338 — 6/18/2016

Site Evaluator Signature — SE # — Date

GEORGE S. BOUCHLES — 240-5567 — gsb@cadmasterr.com

Site Evaluator Name Printed — Telephone Number — E-mail address

NOTE: Changes to or deviations from the design shall be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

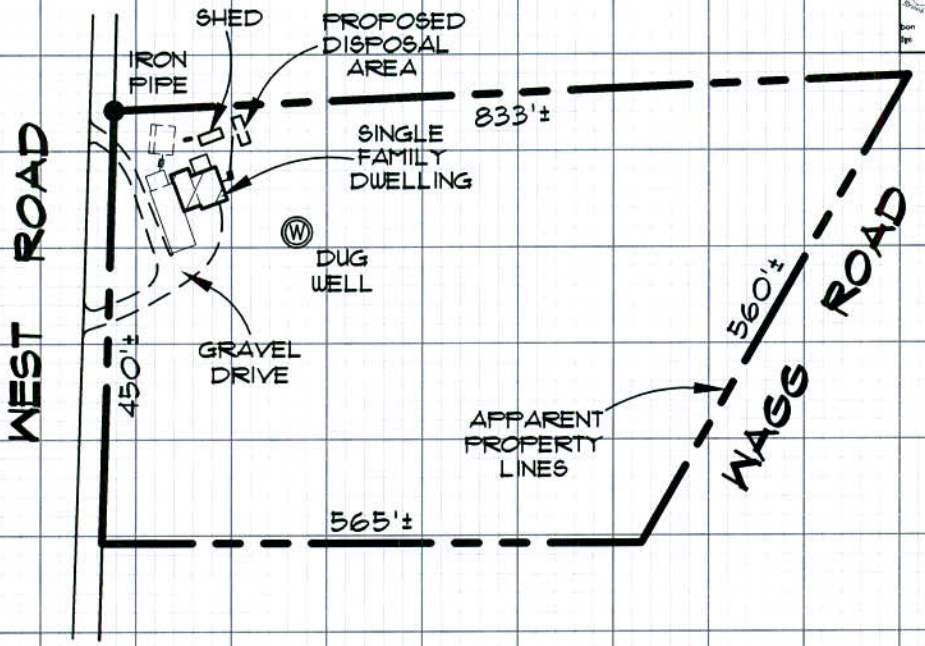
Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision Lot No.	Owner or Applicant Name
BOWDOIN	297 WEST ROAD	JUDITH ROWE

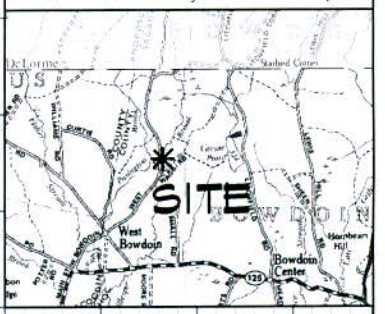
SITE PLAN

Scale 1" = 200 Ft.

NOTE: LOCATION OF SEPTIC SYSTEM HAS BEEN SITED ON THE PROPERTY BASED UPON BOUNDARY LINE/PROPERTY INFORMATION PROVIDED BY OWNER OR OWNER'S AGENT. NO INDEPENDENT VERIFICATION OF BOUNDARY LINE LOCATIONS HAS BEEN MADE BY THIS SITE EVALUATOR. PROPERTY LINES SHOWN SHALL BE VERIFIED BY OWNER/INSTALLER PRIOR TO CONSTRUCTION OF SYSTEM. ANY DISCREPANCY FROM THAT SHOWN SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN SITE EVALUATOR PRIOR TO BEGINNING ANY WORK.



SITE LOCATION PLAN
(Attach map from Maine Atlas for First Time System Variance)



SOIL PROFILE DESCRIPTION AND CLASSIFICATION (Location of Observation holes Shown Above)

Observation Hole No. TB 2 ☐ Test Pit ■ Boring

1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–6	FINE SANDY LOAM		BROWN	NONE
6–12	LOAMY		YELLOWISH BROWN	OBSERVED TO 48 INCHES
12–20	SAND	FRIABLE	BROWN	
20–30	TO		LIGHT YELLOWISH BROWN	
30–40	SAND			
40–50				

Soil Classification		Slope	Limiting Factor	
5	B	8	N/A "	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ■ Pit Depth
Profile	Condition	Percent	Depth	

Observation Hole No. _____ ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

Texture	Consistency	Color	Mottling

STATE OF MAINE
GEORGE S. BOUCHLES
#338
LICENSED SITE EVALUATOR

Soil Classification		Slope	Limiting Factor	
			"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth
Profile	Condition	Percent	Depth	

George S. Bouchles — 338 — 6/18/2016

Site Evaluator Signature | SE # | Date

10 CMR 241 (October 1, 2002)

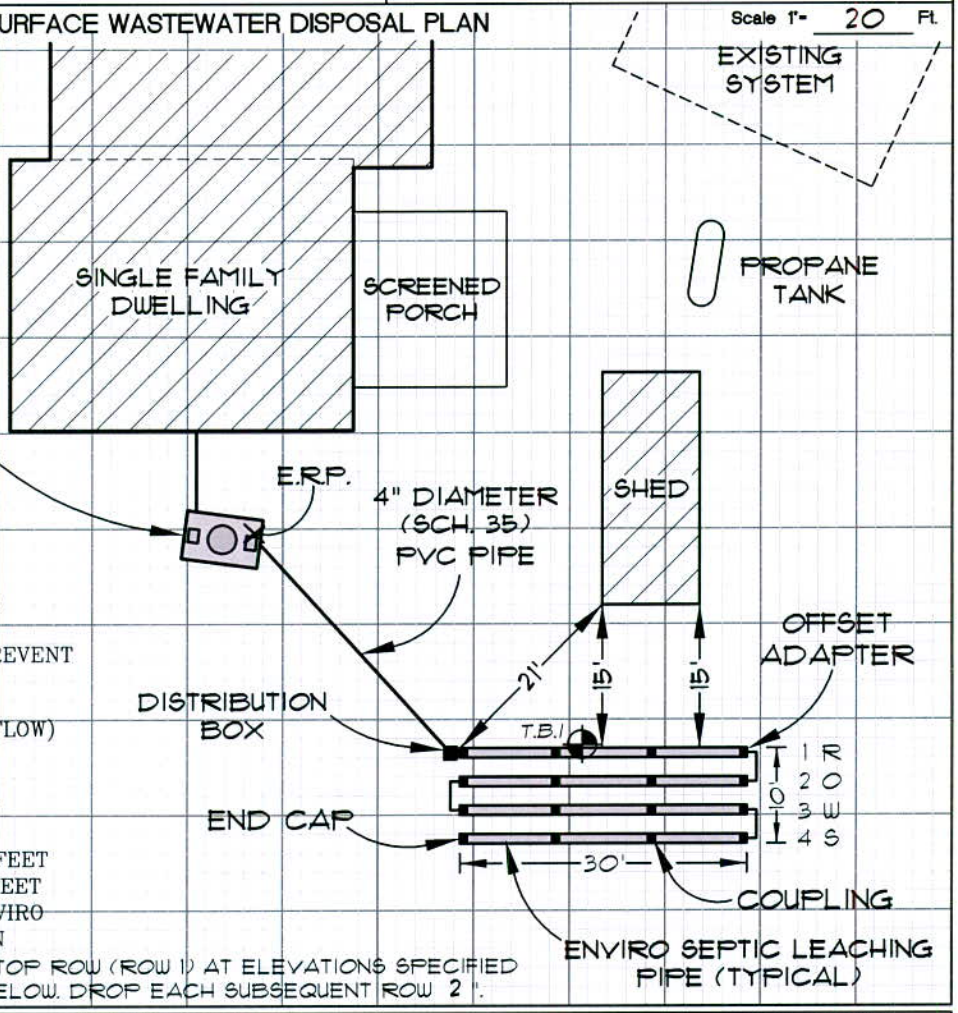
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Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision Lot No.	Owner's Name
BOWDOIN	297 WEST ROAD	JUDITH ROWE

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1"= 20 Ft.



SEPTIC TANK NOTE: EXISTING 1000 GALLON SEPTIC TANK SHALL BE EXPOSED, PUMPED AND INSPECTED FOR STRUCTURAL INTEGRITY. IF TANK OR BAFFLES ARE DETERIORATED, TANK SHALL BE REPLACED AND/OR NEW PLASTIC BAFFLES INSTALLED AS APPROPRIATE.

NOTES:

1.) REFER TO GENERAL NOTES ON THE BACKSIDE OF THIS PAGE
2.) ALL DISTURBED AREAS AND FINISHED SURFACE SHALL BE LOAMED, SEEDED, AND MULCHED TO PREVENT EROSION
3.) SEPTIC TANK SHALL BE SEALED TO PREVENT GROUND WATER OR SURFACE WATER INFILTRATION INTO SYSTEM
4.) PROVIDE SURFACE WATER DRAINAGE (FLOW) AWAY FROM SYSTEM
5.) MINIMUM SEPARATION DISTANCES:
   A.) SEPTIC TANK FROM HOUSE 8 FEET
   B.) SEPTIC TANK FROM WELL 50 FEET
   C.) DISPOSAL FIELD FROM HOUSE 20 FEET
   D.) DISPOSAL FIELD FROM WELL 100 FEET
6.) INSTALL **120** LINEAR FEET OF 12" "ENVIRO SEPTIC" LEACHING PIPE IN CONFIGURATION SHOWN AND AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SET TOP ROW (ROW 1) AT ELEVATIONS SPECIFIED BELOW. DROP EACH SUBSEQUENT ROW 2".

BACKFILL REQUIREMENTS

Depth of Backfill (upslope)	6 "
Depth of Backfill (downslope)	12 "

(Fill Depth May Vary Due To Uneven Ground Slope)

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-3 "
Top of Distribution Pipe or Proprietary Device	-15 "
Bottom of Distribution Pipe or Proprietary Device	-27 "
Bottom of Disposal Area	-33 "

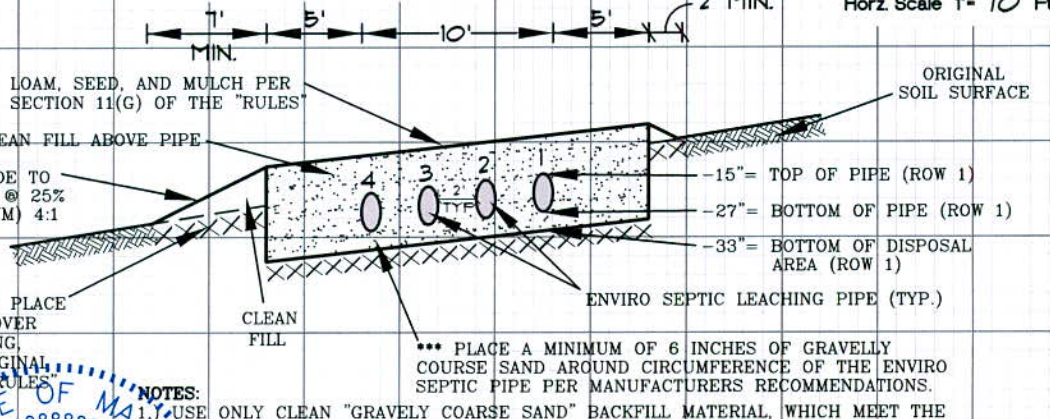
ELEVATION REFERENCE POINT

Location & Description TOP OF EXISTING SEPTIC TANK

Reference Elevation is: 0 " or: ____

DISPOSAL AREA CROSS SECTION

Vert. Scale 1"= 5 Ft.
Horz. Scale 1"= 10 Ft.



XXX DENOTES TRANSITION HORIZON: PLACE A MINIMUM OF 4" OF CLEAN FILL OVER ORIGINAL SOIL AND MIX (BY PLOWING, DISKING OR ROTOTILLING) INTO ORIGINAL SOIL PER SECTION 11(B) OF THE "RULES".

••• PLACE A MINIMUM OF 6 INCHES OF GRAVELLY COURSE SAND AROUND CIRCUMFERENCE OF THE ENVIRO SEPTIC PIPE PER MANUFACTURERS RECOMMENDATIONS.

NOTES:

1. USE ONLY CLEAN "GRAVELY COARSE SAND" BACKFILL MATERIAL, WHICH MEET THE BACKFILL STANDARDS OF SECTION 11(E) OF THE "RULES", FREE OF FOREIGN MATERIALS (ROOTS, LARGE ROCKS, ETC.) PLACED IN 8" LIFTS AND LIGHTLY COMPACTED AS PLACED.
2. REMOVE ALL ORGANIC MATERIALS (ROOTS, STUMPS, AND LARGE ROCKS) UNDER SYSTEM AND FILL EXTENSIONS AND PREPARE TRANSITION HORIZON BY PLACING A MINIMUM OF 4" OF CLEAN FILL OVER ORIGINAL SOIL AND MIX (BY PLOWING, DISKING OR ROTOTILLING) INTO ORIGINAL SOIL PER SECTION 11(B) OF THE "RULES".

STATE OF MAINE
GEORGE S. BOUCHLES #338
LICENSED SITE EVALUATOR

Gary R. Bouchles

Site Evaluator Signature	SE #	Date
	338	6/18/2016

10 CMR 241 (October 1, 2002)

General Notes

1.) The most recent revision of the Maine Subsurface Wastewater Disposal Rules ("Rules") dated 1-18-2011 is hereby made a part of this HHE-200 Form and shall be consulted by the disposal system installer pertaining to the installation of this proposed disposal system.

2.) This HHE-200 is intended to represent facts pertinent to the "Rules" only. The owner and applicant must check both local and state ordinances, and regulations regarding other building regulations (i.e. zoning, wetlands, building codes, minimum lot size, etc.) before considering this an approved or buildable site. I can provide you with other local, state and federal regulatory investigation of pertinent land use regulations, affecting the suitability or buildability of the site, at an additional cost, per your request.

3.) All information shown on this form relating to the property lines and subsurface structures (such as but not limited to: water lines, septic tanks, cess pools, cellar drains, utility lines, etc.) are notes, plotted or left off as not affecting the system based on information provided by the owner or his agent. It is the responsibility of the owner or his agent to confirm, BEFORE CONSTRUCTION BEGINS, the above and/or any other features, which may affect (or be adversely affected by) the installation of the system.

4.) When a gravity system is proposed, BEFORE CONSTRUCTION BEGINS, the disposal system installer and building contractor shall review and verify the relative elevation of all points given on this HHE-200 Form and the elevation of the existing or proposed building drain and septic tank openings for compatibility to the minimum code pitch requirements. Any questions that arise should be directed to the local plumbing inspector or myself. When a pump system is installed, provisions shall be made to keep the tank and lift station outlets above the high water table. An alarm device warning of pump failure is required. Venting of a pumped system is required.

5.) If the use of a laundry machine becomes excessive, a separate laundry bed should be designed and installed. A lint-catching device should be installed for the washing machine (if it doesn't have one) and cleaned frequently. A distribution box has been shown in the design and is intended to offer an inspection port whereby the owner can check for excessive lint or grease buildup before damage to the system is done. Inspection should be frequent. This system has not been designed or sized to accommodate a garbage disposal. If one is to be used, you must first notify me so that I can increase the size of the septic tank capacity by 30% minimum.

6.) The actual water flow or number of bedrooms shall not extend the design criteria indicated on the HHE-200 form without a re-evaluation of the system.

7.) All Construction shall conform to Section 11 of the "Rules" in general: (A) the vegetation in the proposed disposal area and fill extensions shall be removed and the ground surface scarified (rotor tilled) to minimize glazing of original soils. (B) The bottom of the disposal area and distribution line shall be level and with maximum grade tolerance of 2 inches per 100 feet. (C) Backfill shall be clean, gravely, coarse sand, and free of foreign material placed in eight inch lifts and lightly compacted as placed. (D) The finish grade of the backfill over the disposal area shall extend 3 to 5 feet beyond the edge of the disposal area. At that point, the fill shall be sloped at a uniform grade of no greater that 25% (4:1) to the original ground. (E) The land adjacent to the disposal area shall be graded to prevent both the accumulation of surface water on the disposal area and the flow of surface water across the disposal area. (F) The finished disposal area and fill extensions shall be seeded to prevent erosion: (a) Grass, clover, trefoil vetch, perennial wildflowers or other herbaceous perennials may be utilized for disposal area surfaces. Woody shrubs are unacceptable. (b)Woody shrubs in conjunction with a hardy perennial ground clover may be used on fill extensions only.

8.) The setback distance between a well and a disposal area serving a single-family residence is 100 feet; the setback distance from a septic tank to a disposal area is 50 feet. The location of a well (new or existing) that is less than these distances from a proposed system may void this design. For additional setback requirements, see Table 7B and Table 8A of the "Rules".

9.) All construction shall be inspected by, the local plumbing inspector (LPI) according to Section 11(I) of the "Rules" prior to backfilling. Backfill material shall comply with Section 11(E) of the "Rules".

10.) If the owner or installer has any questions, please do not hesitate to call at 689-3232 or 240-5567 (cell).

Revised January 17, 2013