



# County of San Diego

## Department of Environmental Health and Quality

Land and Water Quality

5500 Overland Ave., Suite 210, San Diego, CA 92123 / (858) 565-5173

[www.scdcehq.org](http://www.scdcehq.org)

### ONSITE WASTEWATER TREATMENT SYSTEM LAYOUT APPROVAL EXPIRATION DATE: 8/22/2027

**Owner:** Roach Nicholas&Anna-Marie      **Site:** 2255 EUCLID AVE, EL CAJON  
**Address:** 35&36 Euclid Ave\*El Cajon Ca\      **Parcel:** 512-180-36-00  
**Phone:**      **Certification:** PERC TEST  
El Cajon, CA 92019      **Record ID:** DEH2024-LOWTS-018332

This project is **APPROVED** for the following:

*Commercial / Residential:* Residential      *Gallons / Day:* 600

*Number of Bedrooms:* 4

#### THIS IS NOT AN ONSITE WASTEWATER TREATMENT SYSTEM PERMIT

You have until 8/22/2027 to obtain a septic permit. However, a site recheck may be required at any time to determine if site conditions have changed. Refer to the County of San Diego, Department of Environmental Health and Quality, Local Agency Management Program for Onsite Wastewater Treatment Systems for all applicable setbacks and standard conditions of approval.

#### ONSITE WASTEWATER SYSTEM REQUIREMENTS

*Primary Septic Tank (in gallons):* 1200

*Supplemental Treatment Type:* Presby Enviro-Septic, *Other Supplemental Treatment:*

*Make/Model of Supplemental Treatment:*

*System Details:*

#### Soil Disposal System

System Type	Length	Width	Depth	Cap Depth	Spacing	Depth of Medium	# of Pods
Primary Dwelling      AES Pipe	280	23.70	3	1			1

#### CONDITIONS TO BE COMPLETED PRIOR TO THE ISSUANCE OF A SEPTIC PERMIT

*Potable Water Source:* Public Water Supply      *Water District:* Helix Water District

*DEHQ Grading Inspection:*      *DEHQ Building Plan Review:*

#### COMMENTS: PROPOSED 4BR SFD

INSTALL 1200 GALLON SEPTIC TANK CONNECTED TO PUMP CHAMBER AND SURGE TANK.  
SYSTEM TO WASTE INTO NEW 1685 SQFT PRESBY BED.

BED TO BE OCCUPIED BY 280' OF AES PIPE (FOUR 70' ROWS) IN ONE SERIAL SECTION  
PIPE TO BE LAYED OUT AT 5.5' SPACING W/ BED BEING 23.7' WIDE W/ A 17.2' SAND EXTENSION GOING DOWN SLOPE.

BED TO BE INSTALLED LEVEL WITH 6" OF SYSTEM SAND UNDER PIPE AND 3" OVER PIPE (~12" OF SAND TOTAL).

\*PUMP DESIGN REQUIRED PRIOR TO PERMIT ISSUANCE

\*GRADING INSPECTION REQUIRED PRIOR TO PERMIT ISSUANCE

\*PERMIT APPLICATION REQUIRED PRIOR TO PERMIT ISSUANCE

\*ENGINEER CERTIFICATION & LAOP WILL BE REQUIRED PRIOR TO FINAL SIGN OFF



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**THE SEPTIC CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER PRIOR TO INSTALLATION OF ANY SYSTEM COMPONENTS AND COORDINATE NECESSARY INSPECTION(S) BY THE ENGINEER.**

**FINAL APPROVAL SHALL REQUIRE:**

- WRITTEN CERTIFICATION AND AS BUILT FROM DESIGN ENGINEER
- TELEMETRY
- COPY OF MAINTENANCE AGREEMENT
- OBTAIN AN ANNUAL OPERATING PERMIT

**Approved By:** Conner Jordan

**Date:** 8/22/2025



COUNTY OF SAN DIEGO

DEPARTMENT OF ENVIRONMENTAL HEALTH AND QUALITY

LAND AND WATER QUALITY DIVISION

## ONSITE WASTEWATER TREATMENT SYSTEM LAYOUT SUBMITTAL APPLICATION

DEH PROJECT #:

LOWTS - 018332

Layout New Const.  
Existing 4 BR SFD  
Proposed 1 BR ADU

SITE LOCATION: 2255 EUCLID AVE	CITY: El Cajon	APN: 512-180-36-00
OWNER NAME: Nick & Anna-Marie Roach	PHONE: 414-698-4072	EMAIL: ricknoach@gmail.com
OWNER MAILING ADDRESS: 3616 Bonita Glen Terr, Bonita CA, 91902		
CONTACT NAME: Nick Parisi	PHONE: 917-903-7312	EMAIL: nick@simplybuildable.com

Is there a lock or gate to access parcel or community?  YES  NO If yes, provide lock/gate code(s):

Are there dogs or animals on the parcel?  YES  NO If yes, special instructions:

**NOTICE:** All items indicated below are required to be submitted for the application to be deemed complete. Review of the submittal will begin after all required items have been submitted. Please indicate item is included in submittal

**SECTION 1 – Required Items for Complete Layout Submittal**

- Professional's name, mailing address, email address, and phone number
- Type of proposed construction (Ex: Residential, Commercial, Industrial)
- Scope of work: Residential:  Type of Construction  # Bedrooms
- Scope of work: Commercial:  Business Type  Volume of Wastewater  Character and Strength of Wastewater
- Commercial Food Service-location, design, and size of oil/grease interceptor
- Legal Basis of parcel (map and lot number, plat number, etc.)
- Vicinity Map; Scale (engineer scale not to exceed 1"=60'); North arrow; Layout does not exceed 11" x 17" paper
- Property Lines and lot dimensions (provide an over sheet (larger scale allowed) and detail sheet(s) for large parcels)
- Topographic lines and elevation points (include pad grade, finished floor, septic tank, leach lines, slope arrows, slope range, etc.).
- Existing and proposed primary and reserve Onsite Wastewater Treatment System (OWTS) tank and dispersal design detail
- All setback distances are shown on layout
- All proposed and existing grading; Rock outcroppings; Slopes in excess of 20%
- All known, recorded easements on or within 20 feet of lot boundaries (open-space, utility, road, waterline, etc.)
- Identify source of potable water; Location of all public waterlines on or within 20 feet of property and signed water line statement
- Location of all wells on or within 150 of feet of property line; Location of all Public wells within 600 feet of property line
- Location of drinking water reservoir within 2,500' of property line
- Location of drainage ways; location of streams, springs, ponds, flood plains, lakes within 200 feet of property line
- All soils testing information, such as deep borings, test holes, and/or percolation tests, plotted on the design (matches flagged locations in field)
- Depth to groundwater data and specific method used to determine depth to groundwater
- Location of all stormwater treatment and retention features
- Sign-off of layout by local water district or company, if required (Vista Irrigation District, Rincon del Diablo, Yuima, County Service Areas)

**SECTION 2 – REQUIRED LAYOUT ITEMS FOR A SUPPLEMENTAL TREATMENT SYSTEM (OWTS-STS)**

**Note:** Include design for dispersal system for reserve areas

- All Items listed in Section 1
- List all STS components and show location on parcel
- Design specifications and configuration for dispersal system for primary and reserve areas
- GeoFlow worksheet for drip dispersal line (if used)
- Pump(s) specifications and pump(s) curve; Friction and head loss calculation
- Control/Alarm Box with telemetric reporting
- Sizing calculations from the design professional
- Documentation of the 24-hour emergency storage above the alarm on float(s)

Received

FEB 23 2024

County of San Diego  
Dept. of Environmental Health  
Land & Water Quality Div.

**Notice:** The acceptance of this project for submittal does not constitute an approval of the project. Additional items may be required upon completion of the property visit by the field specialist.

I certify that the above checkbox items are provided and shown on the layout and the layout plot plan shows all known easements on the parcel and all public water lines on or within 20 feet of the parcel boundaries. I understand that failure to submit the required application items may cause a delay of the project review until all items required for a full and complete review are submitted.

Property Owner Signature

Design Professional Signature

Date

02/14/24

Date

## GENERAL NOTES

1. INSTALLING CONTRACTOR TO BE MEET D.E.H. REQUIREMENTS AND SHALL BE PRESBY AES CERTIFIED AND SHALL BE RESPONSIBLE FOR ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT.
2. SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS, PRODUCT INFORMATION, OR THE NEAREST DEALER CONTACT PRESBY ENVIRONMENTAL, INC. 143 AIRPORT ROAD, WHITEFIELD, NH 03588, PHONE 1-800-473-5298 WWW.PRESBYENVIRONMENTAL.COM
3. MINIMUM OF 6" OF MEDIUM TO COARSE SAND, WITH LESS THAN 2% PASSING A # 200 SIEVE, REQUIRED AROUND CIRCUMSTANCE OF ADVANCED ENVIRO-SEPTIC PIPES (SEE DESIGN AND INSTALLATION MANUAL FOR COMPLETE SAND AND FILL SPECIFICATIONS.)
4. UNLESS NOTED OTHERWISE, PRESBY LINES ARE TO BE INSTALLED ON A 6" SAND BED AND 12" SAND FILL AND 3" SAND COVER, 12" NATIVE SOILS TO BE PLACED AT THE TOP LAYER (UNLESS NOTED OTHERWISE).
5. CONTRACTOR IS RESPONSIBLE FOR SAND AND SHALL PROVIDE SAND PURCHASE RECEIPTS (AS REQUIRED BY D.E.H.) AS PROOF SITE SAND MEETS DESIGN CRITERIA.
6. CONTRACTOR TO PROVIDE OWNER WITH CURRENT COUNTY OF SAN DIEGO D.E.H. INSPECTION AND MAINTENANCE REQUIREMENTS AND SCHEDULES.
7. MAINTENANCE: RECOMMEND INSPECTION OF SEPTIC TANKS AT LEAST ONCE EVERY TWO YEARS AND CLEAN IF COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID DEPTH INSIDE THE TANK.
8. CONTRACTOR TO VERIFY PROPER ELEVATION DIFFERENTIAL EXISTS BETWEEN LOWER AND UPPER VENTS. SEE PRESBY GUIDELINES.
9. SEE PRESBY DESIGN INSTALLATION MANUAL REGARDING PUMP SYSTEM REQUIREMENTS.
10. RECOMMENDATIONS IN PRESBY MANUAL SHALL SUPERSEDE THIS DESIGN SHOULD MANUFACTURER'S SPECIFICATIONS BE REVISED.
11. SAN DIEGO COUNTY DEH TO INSPECT INSTALLATION PRIOR TO BACKFILL OF SAN AND COVERING OF TANKS.
12. OWNER SHALL CONTRACT A BI-ANNUAL INSPECTIONS BY A CERTIFIED 3RD PARTY AND SUBMIT RESULTS TO THE COUNTY OF SAN DIEGO D.E.H. ALONG WITH AN ANNUAL FEE OF \$410. RECOMMENDED INSPECTOR IS: TOD WALSH @ (760) 580-5079. INSPECTIONS SHALL OCCUR ONCE DURING CONSTRUCTION AND ONCE AT FINAL.
13. THE FUTURE INSTALLATION OF THE PRESBY SYSTEM SHALL HAVE TWO INSPECTIONS BY A CERTIFIED ENGINEER OR REGISTERED ENVIRONMENTAL HEALTH SPECIALIST.
14. ALL WORK TO CONFORM TO CURRENT CALIFORNIA PLUMBING CODES.
15. DEEP TRENCH REINFORCEMENT AND SLOPING TO MEET ALL CA OSHA REQUIREMENTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BEST MANAGEMENT APPLICATIONS FOR THE WORK AREA PER COUNTY OF SAN DIEGO GUIDELINES.

## SEPTIC (PRESBY SYSTEM) CALCULATIONS:

SYSTEM CALCULATIONS - PROPOSED RESIDENCE  
SEE PRESBY DESIGN AND INSTALLATION MANUAL

STEP #1: SYSTEM SAND BED AREA REQUIRED (SSBA)  
FROM TABLE A: (DESIGN FLOW / APPLICATION RATE)  
(150 X 4 BDRMS.) = 600 / 0.356 = 1,685 S.F. SSBA

STEP #2: ALLOWABLE SYSTEM SLOPE FROM TABLE D:  
UP TO 25% SYSTEM NATURAL SLOPE FOR PERC RATE OF 34 MPI  
EXISTING SLOPE VARIES 8% TO 11% = OK

STEP #3: MINIMUM AMOUNT OF AES PIPE NEEDED FROM  
TABLE C:  
70 FT BR X 4 BR = 280 LF AES PIPE

STEP #4: MINIMUM OF SERIAL SECTIONS NEEDED  
(DESIGN FLOW / 750 GPD)  
600 / 750 = 0.8 USE 1

STEP #5 DETERMINE ROW LENGTH AND QUANTITY NEEDED  
ROW LENGTH  $70' \div 1' = 71'$  BED LENGTH  
NUMBER OF ROWS NEEDED = MINIMUM PIPE LENGTH / ROW LENGTH  
280 / 70 = 4 ROWS

STEP #6: PIPE LAYOUT WIDTH (PLW)  
((NUMBER OF ROWS - 1) X SPACING + 1)  
PLW = 4 - 1 X 1.5 + 1 = 4.5 + 1 = 5.5'

## PROPOSED SYSTEM:

AN OWT'S (PRESBY SYSTEM) FOR A 4 BEDROOM RESIDENCE  
W/ AREA FOR PRIMARY AND 100% RESERVE  
SEE DETAILED CALCULATIONS AND DRAWINGS ATTACHED.  
IS 0.356 GPD/FT PER LAM.P. WITH A PERCOLATION RATE OF 46 MPI.

## LEGAL

APN 512-130-36-00  
SAN DIEGO SEPTIC DESIGN & TESTING  
P.O. BOX 3120  
ESCONDIDO, CA 92033  
PH (760) 518-5763  
sandiegodesigners2@gmail.com

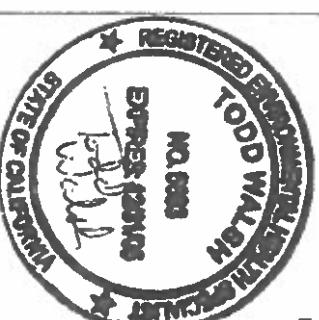
APN 512-130-36-00  
2255 EUCLID AVENUE  
EL CAJON, CA 92019  
HELIX WATER DISTRICT  
PO BOX 3120  
ESCONDIDO, CA 92033  
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sandiegodesigners2@gmail.com

## VICINITY MAP

NO SCALE



7/14/25

## SEPTIC SYSTEM LAYOUT

APN 512-130-36-00

OWNER NICK & ANNA-MARIE ROACH

PROJECT ADDRESS: 2255 EUCLID AVENUE, EL CAJON, CA 92019

PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING  
PO BOX 3120, ESCONDIDO, CA 92033  
DESIGNER: TODD WALSH REHS  
DRAFTER: STEVE MURCKO

S1

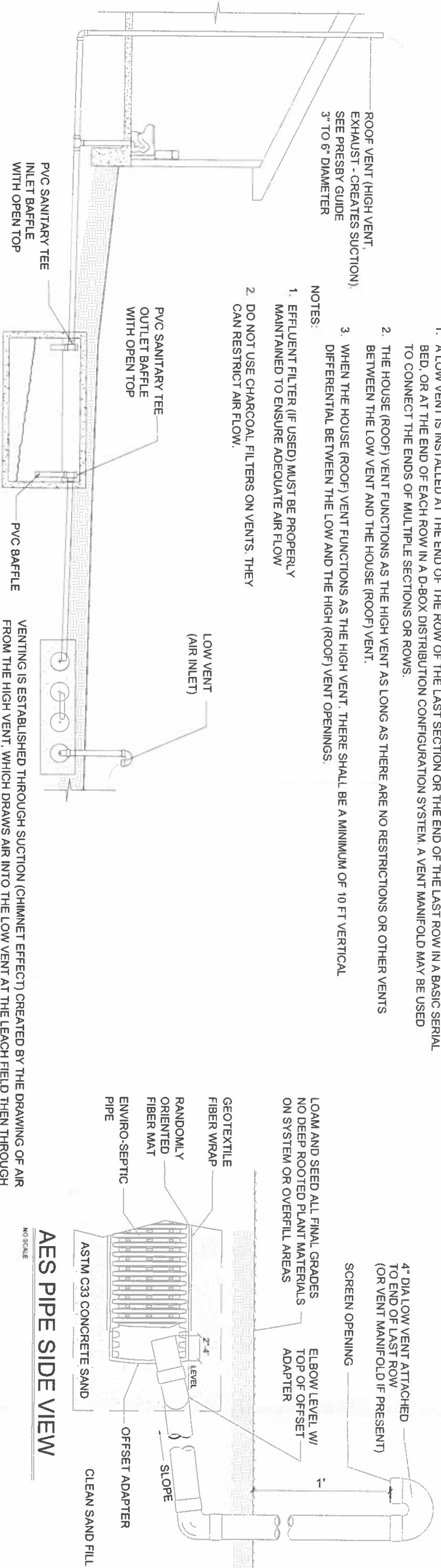


## GRAVITY SYSTEM VENT LOCATIONS

1. A LOW VENT IS INSTALLED AT THE END OF THE ROW OF THE LAST SECTION OR THE END OF THE LAST ROW IN A BASIC SERIAL BED, OR AT THE END OF EACH ROW IN A D-BOX DISTRIBUTION CONFIGURATION SYSTEM. A VENT MANIFOLD MAY BE USED TO CONNECT THE ENDS OF MULTIPLE SECTIONS OR ROWS.
2. THE HOUSE (ROOF) VENT FUNCTIONS AS THE HIGH VENT AS LONG AS THERE ARE NO RESTRICTIONS OR OTHER VENTS BETWEEN THE LOW VENT AND THE HOUSE (ROOF) VENT.
3. WHEN THE HOUSE (ROOF) VENT FUNCTIONS AS THE HIGH VENT, THERE SHALL BE A MINIMUM OF 10 FT VERTICAL DIFFERENTIAL BETWEEN THE LOW AND THE HIGH (ROOF) VENT OPENINGS.

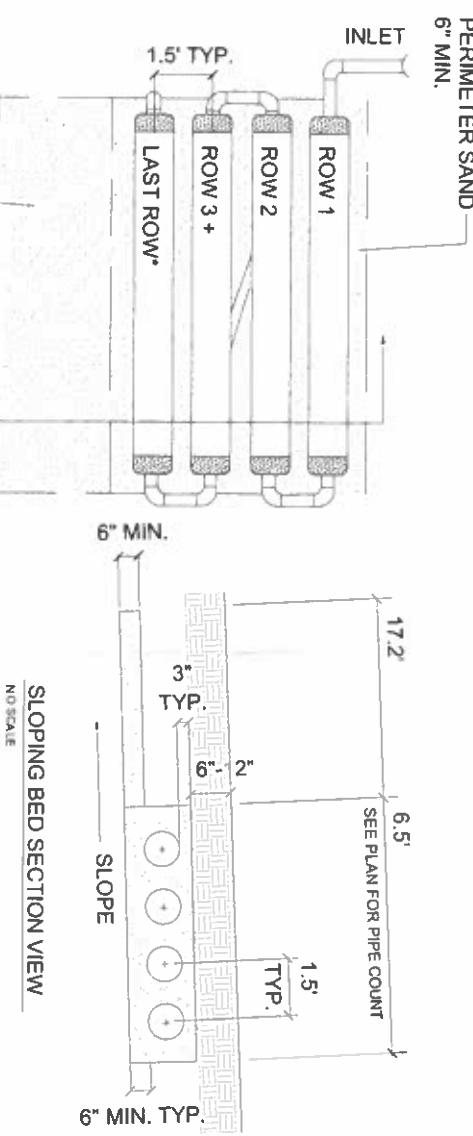
ROOF VENT (HIGH VENT,  
EXHAUST - CREATES SUCTION).  
SEE PRESBY GUIDE  
3" TO 6" DIAMETER

NOTES:  
1. EFFLUENT FILTER (IF USED) MUST BE PROPERLY MAINTAINED TO ENSURE ADEQUATE AIR FLOW  
2. DO NOT USE CHARCOAL FILTERS ON VENTS. THEY CAN RESTRICT AIR FLOW.



## GRAVITY SYSTEM AIRFLOW

VENTING IS ESTABLISHED THROUGH SUCTION (CHIMNEY EFFECT) CREATED BY THE DRAWING OF AIR FROM THE HIGH VENT, WHICH DRAWS AIR INTO THE LOW VENT AT THE LEACH FIELD THEN THROUGH THE SEPTIC TANK AND EXHAUST THROUGH THE (HIGH) ROOF VENT.



SYSTEM SAND EXTENSION  
(DOWNHILL SIDE)  
ONLY FOR SYSTEM SLOPES OVER 5%  
\* SEE PLAN FOR PIPE COUNT

SLOPING BED PLAN VIEW  
NO SCALE

## SYSTEM DESIGN - IN-GROUND BED SYSTEMS

### SLOPING BED

ROWS GROUPED AT HIGH SIDE OF SAND BED AREA  
NO SCALE

### OWTS (PRESBY) SYSTEM LAYOUT

OWNER: NICK & ANNA-MARIE ROACH

APN 512-130-36-00

PROJECT ADDRESS: 2255 EUCLID AVENUE, EL CAJON CA 92019

PREPARED BY:

SAN DIEGO SEPTIC DESIGN & TESTING  
P.O. BOX 31200 ESCONDIDO, CA 92033 PH. (760) 518-5763

DESIGNER: TODD WALSH REHS DRAFTER: STEVE MURCKO

## Dela Vega, Erick

---

**From:** Steve Murcko <stevemurcko@yahoo.com>  
**Sent:** Tuesday, July 15, 2025 10:19 AM  
**To:** DEH, LWQ Duty  
**Cc:** Hernandez, Thalia; Steve Merco  
**Subject:** [External] DEH2024-LOWTS-018332 Roach Residence- Resubmittal - Attn Thalia Hernandez  
**Attachments:** Roach Parisi S3.pdf; Roach Parisi S2.pdf; Roach Parisi S1.PDF; Roach Parisi DEH2024-LCSLT-001610.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**Categories:** Katelynn, Erick

*Resubmittal*

*2024. LOWTS. 018332 RRR*

*ATT: Thalia*

Hi Thalia,

Please find our revised layout attached.

Let us know if there is anything more you need from us at this time.

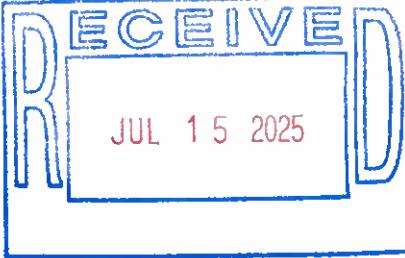
All the best

**Steve Murcko**  
Steve Murcko & Associates, Inc.  
DBA San Diego Septic Design & Testing  
P.O. Box 3120  
Escondido, CA 92033  
Ph. +1 (760) 518-5763



COUNTY OF SAN DIEGO  
DEPARTMENT OF ENVIRONMENTAL HEALTH AND QUALITY  
LAND AND WATER QUALITY DIVISION

OFFICIAL INSPECTION REPORT

Facility Name/Type: 2255 Euclid Ave. El Cajon CA 92019 /Vacant Lot	APN: 512-18-36-00	Inspection Date: 6/30/2025
Inspection Address or Location: 2255 Euclid Ave.	City: El Cajon	Zip Code: 92019
Owner/Operator Name and Address: Anna-Marie and Nicholas Roach 2255 Euclid Ave. El. Cajon, CA 92019	Phone #: (760) 796-4868	
Type of Inspection: <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Consultation <input type="checkbox"/> Reinspection <input type="checkbox"/> Other		
Program: Land Use	Record ID#: DEH2024-LCSLT-001610	
<b>Nature of Complaint/Consultation:</b> The vacant lot on address above has completed a consultation for groundwater monitoring for the proposed Project DEH2024-LOWTS-018332.		
<b>Observations/Comments:</b> Per OWTS PROFESSIONAL Todd Walsh, REHS groundwater monitoring reports and DEHQ Staff, Thalia Hernandez a Supplemental Treatment System is most suitable at higher topographic levels.		
		
<b>Corrective Actions/Recommendations:</b> Revise layout DEH2024-LOWTS-018332, the Layout re-submittal shall be sent electronically to LWQDuty.DEH@sdcounty.ca.gov or in person at the DEHQ Duty Counter located at 5510 Overland Avenue, Monday to Friday between the hours of 8:00 am and 4:00 pm. Attention to Thalia Hernandez or cc: Thalia.Hernandez@sdcounty.ca.gov .		
<b>Correct By:</b>		
Inspected By: Thalia Hernandez	Phone: (858) 585-1081	Email: Thalia.Hernandez@sdcounty.ca.gov
Received By: e-mail	Phone:	Email: ricknoach@gmail.com



COUNTY OF SAN DIEGO  
DEPARTMENT OF ENVIRONMENTAL HEALTH AND QUALITY

**APPLICATION FOR ENVIRONMENTAL HEALTH LAND USE SPECIALIST CONSULTATION**

Requested By: Nicholas & Anna Marie Roach Phone Number: (619) 258-7300

Contact Name: Nicholas Roach Phone Number: (619) 258-7300

Email: Nick@simplybuildable.com

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Property Owner : Nicholas Roach Phone Number: (619) 258-7300

Site Address: 2255 Euclid Avenue City: El Cajon Zip: 92019

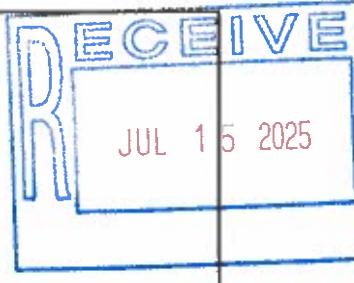
APN: 512-18-36-00

Description and purpose of consultation:

Groundwater monitoring for DEH2024-LOWTS-018332

Special requirements: (locked gates, dogs, difficulty finding location etc.)

n/a



**PLEASE ATTACH ANY APPROPRIATE INFORMATION. (PLOT PLAN, AS-BUILTS, ARCHIVE FILE, ETC)**

DEH2024-LCSLT #: 001610 Total Hours Paid: 2 Date of Payment: November 7, 2024

Specialist Intake: Thalia Hernandez

**\* AREA FOR OFFICE USE ONLY \***



\* 2265 ~~Fructuosa~~ Ave FL CAJEX



卷之三

LOAN# 70015-01P332 OWNED BY FONCH  
DANTS PROFESSIONAL TADS WA 34 REHS

APN 512-180-36 GATE CODE:

Total depth	Depth to H2O	Notes	Drilled	11-6-24	Total depth	Depth to H2O	Notes
7'9"	dry			11-6-24		10'4"	dry
7'10"	dry			3/17/25	(3"	10'3"	dry
7'16"	dry			3/10/25	TO	10'3"	dry
7'16"	dry			3/17/25	TO	10'3"	dry

Total depth	Depth to H2O	Notes
8' 6"	8' 4"	11-6-24
8' 9"	8' 4"	8-17-25 (3" RAIN)
8' 9"	8' 4"	3/10/25
8' 9"	8' 2"	3/17/25 TEL 11" + RAIN

601

## **Hernandez-Esquer, Katelynn G**

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**From:** Steve Murcko <stevemurcko@yahoo.com>  
**Sent:** Friday, May 9, 2025 6:15 PM  
**To:** Hernandez, Thalia; DEH, LWQ Duty; Steve Merco  
**Subject:** [External] DEH2024-LCSLT-001611 - Parisi-Roach  
**Attachments:** RoachMonitoring.PDF

**Categories:** Katelynn, Erick

Hi Thalia,

Please find attached the groundwater monitoring inspected by Todd Walsh REHS.  
There was no water present in any of the holes.  
We would like to proceed with the Presby systems as designed.  
Please contact me or Todd with any questions.

Thank you

**Steve Murcko**  
Steve Murcko & Associates, Inc  
DBA San Diego Septic Design & Testing  
P.O. Box 3120  
Escondido, CA 92033  
Ph. +1 (760) 518-5763



## GENERAL NOTES

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## PROPOSED SYSTEM:

AN OMTS (PRESBY SYSTEM) FOR A 4 BEDROOM RESIDENCE  
W/ AREA FOR PRIMARY AND 100% RESERVE  
SEE DETAILED CALCULATIONS AND DRAWINGS ATTACHED  
IS 0.489 GPD/FT PER LAMP. WITH A PERCOLATION RATE OF 34 MPI.

OWNER
NICK & ANNA MARIE ROACH 3516 BONITA GLEN TERRACE BONITA, CA 91902

LEGAL
APN 512-130-86-00 2255 EUCLID AVENUE EL CAJON, CA 92019 WATER DISTRICT: _____ HELIX WATER DISTRICT

DATE
06/08/2024

PREPARED BY:  
SAN DIEGO SEPTIC DESIGN & TESTING  
P.O. BOX 3120  
ESCONDIDO, CA 92033  
PH. (760) 518-5763  
sandiegodesigners2@gmail.com

STEVE MURCKO  
NO SCALE

## VICINITY MAP



1-8

N

WATER DISTRICT: \_\_\_\_\_

HELIX WATER DISTRICT



7/14/25



## SEPTIC SYSTEM LAYOUT

STEP #6: PIPE LAYOUT WIDTH (PLW)  
((NUMBER OF ROWS -1) X SPACING +1)  
PLW=4 -1 X 1.5 + 1 = 4.5 + 1 = 5.5'

STEP #7: MINIMUM SYSTEM SAND BED WIDTH (SSWB)  
SSBA / (ROW LENGTH +1)  
1227 / 71 = 17.3 USE 17.3

STEP #8: FINAL BED WIDTH REQUIREMENTS: VERIFY SSWB  
WILL COVER ALL ROWS: BY BEDS SLOPING > 5% IF THE MINIMUM  
SSBW IS LESS THAN THE (PLW + 3.5 FT), USE (PLW + 3.5 FT)  
AS THE NEW MINIMUM SSWB.  
LOT VARIES FROM 8% TO 11%  
SSBW = 17.3 > 9.0 USE 17.3'

STEP #9: CALCULATE SYSTEM SAND EXTENSION (SSE):  
B) SLOPING BEDS: SSWB - (PLW+1) = (SSE)  
17.3 - 6.5 = 10.8'

STEP #4: MINIMUM OF SERIAL SECTIONS NEEDED  
(DESIGN FLOW / 750 GPD)  
600 / 750 = 0.8 USE 1

STEP #5: DETERMINE ROW LENGTH AND QUANTITY NEEDED  
ROW LENGTH 70' + 1' = 71' BED LENGTH  
NUMBER OF ROWS NEEDED = MINIMUM PIPE LENGTH / ROW LENGTH  
280 / 70 = 4 ROWS

STEP #6: PIPE LAYOUT WIDTH (PLW)  
((NUMBER OF ROWS -1) X SPACING +1)  
PLW=4 -1 X 1.5 + 1 = 4.5 + 1 = 5.5'

OWNER: NICK & ANNA-MARIE ROACH APN 512-130-86-00  
PROJECT ADDRESS 2255 EUCLID AVENUE, EL CAJON, CA 92019

PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING  
P.O. BOX 3120 ESCONDIDO, CA 92033 (760) 518-5763  
DESIGNER: TODD WALSH REHS 5803 DRAFTER: STEVE MURCKO



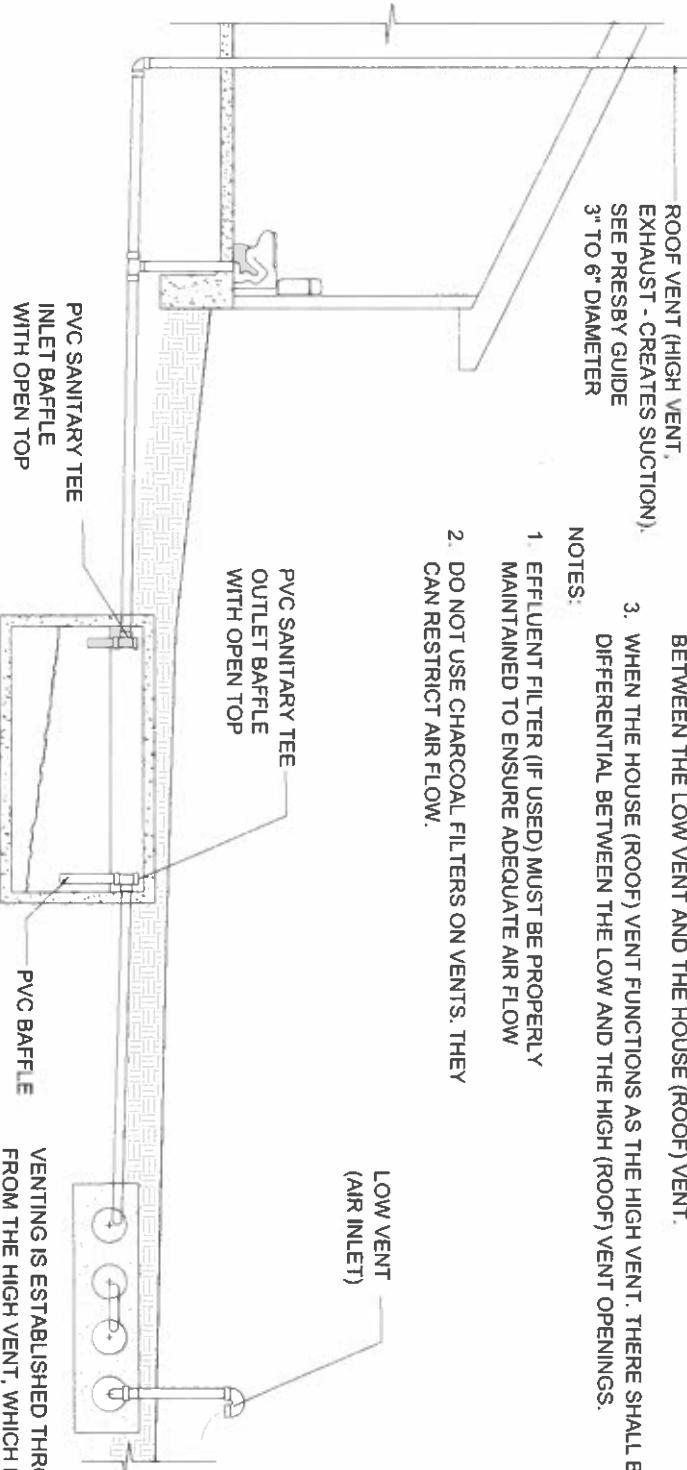
## GRAVITY SYSTEM VENT LOCATIONS

1. A LOW VENT IS INSTALLED AT THE END OF THE ROW OF THE LAST SECTION OR THE END OF THE LAST ROW IN A BASIC SERIAL BED, OR AT THE END OF EACH ROW IN A D-BOX DISTRIBUTION CONFIGURATION SYSTEM. A VENT MANIFOLD MAY BE USED TO CONNECT THE ENDS OF MULTIPLE SECTIONS OR ROWS.
2. THE HOUSE (ROOF) VENT FUNCTIONS AS THE HIGH VENT AS LONG AS THERE ARE NO RESTRICTIONS OR OTHER VENTS BETWEEN THE LOW VENT AND THE HOUSE (ROOF) VENT.

ROOF VENT (HIGH VENT)  
EXHAUST - CREATES SUCTION.  
SEE PRESBY GUIDE  
3" TO 6" DIAMETER

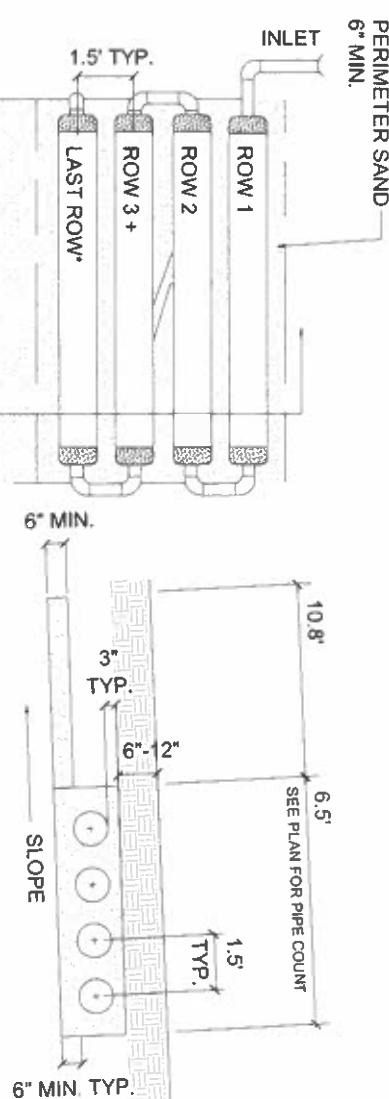
NOTES:  
1. EFFLUENT FILTER (IF USED) MUST BE PROPERLY MAINTAINED TO ENSURE ADEQUATE AIR FLOW

2. DO NOT USE CHARCOAL FILTERS ON VENTS. THEY CAN RESTRICT AIR FLOW.
3. WHEN THE HOUSE (ROOF) VENT FUNCTIONS AS THE HIGH VENT, THERE SHALL BE A MINIMUM OF 10 FT VERTICAL DIFFERENTIAL BETWEEN THE LOW AND THE HIGH (ROOF) VENT OPENINGS.



## GRAVITY SYSTEM AIRFLOW

VENTING IS ESTABLISHED THROUGH SUCTION (CHIMNEY EFFECT) CREATED BY THE DRAWING OF AIR FROM THE HIGH VENT, WHICH DRAWS AIR INTO THE LOW VENT AT THE LEACH FIELD THEN THROUGH THE SEPTIC TANK AND EXHAUST THROUGH THE (HIGH) ROOF VENT.



SYSTEM SAND EXTENSION  
(DOWNHILL SIDE)  
ONLY FOR SYSTEM SLOPES OVER 5%  
\* SEE PLAN FOR PIPE COUNT

SLOPING BED PLAN VIEW  
NO SCALE

## SYSTEM DESIGN - IN-GROUND BED SYSTEMS

### SLOPING BED

ROWS GROUPED AT HIGH SIDE OF SAND BED AREA  
NO SCALE

### OWTS (PRESBY) SYSTEM LAYOUT

OWNER: NICK & ANNA-MARIE ROACH

APN 512-130-86-00

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PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING

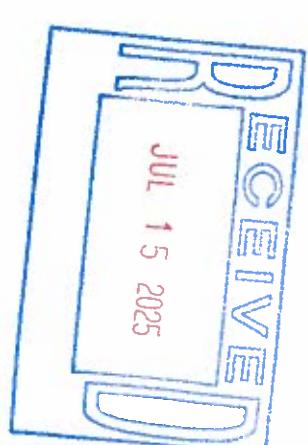
P.O. BOX 3120 ESCONDIDO, CA 92033 PH: (760) 518-5763

DESIGNER: TODD WALSH REHS 5683 DRAFTER: STEVE MURCKO



### AES PIPE SIDE VIEW

NO SCALE





**COUNTY OF SAN DIEGO**  
**DEPARTMENT OF ENVIRONMENTAL HEALTH**  
**PERCOLATION TEST REPORT**

*PAR. 4*

DEH Control #: \_\_\_\_\_  
 Date: 4-10-2022  
 Activity Code: \_\_\_\_\_

Assessor's Parcel Number: 512-180-36-00 Map # pm 2652 Lot # PAR. 4  
 Site Address: 50-0F 2265 Euclid Ave. Town: El Cajon Zip Code: \_\_\_\_\_  
 Owner: NICHOLASE & Anna Marie Roach Phone: 414-698-4072  
 Mailing Address: 1843 Ellendale Dr., Northbrook, IL 60062 Email: Rick.Neoch@gmail.com

Test Hole #	Test Depth	Stabilized Rate mpi	Test Hole #	Test Depth	Stabilized Rate	Average Perc Rate
#5	3'	15				
#10	3'	30				
#7	4'	44				
#8	4'	44				
						34 mpi

3-1 21' Dry w/ pipe

Vertical seepage pits: Provide soils log, uniformity/capacity test results, and calculations on separate 8-1/2" x 11" sheets of paper

**TYPE OF SOIL:** (clay, silt, sand, decomposed granite, etc.)

Surface: Tan Silty Sand w/ clay

1-3 ft. below surface: Brown Silty Sand w/ clay

3-5 ft. below surface: Silky Sand w/ clay to Silty Sand (tan)

5-8 ft. below surface: Silky Sand to decomposed granite

8-21 ft. below surface: Tan Silty Sand / D.G.

Depth to Refusal: Random rock Depth to Groundwater: >21 ft.

**RECOMMENDATIONS:**

Septic Tank: 1200-1500 gal Pump Chamber: 1200 gal Surge Tank: 400 gal

Leach Line Length: 490 ft Seepage Pit Type: \_\_\_\_\_ Number of Pits: \_\_\_\_\_

Trench Depth: 4.0 ft Length: N/A ft Width: N/A ft

Rock below Pipe: 24 in Total Depth: \_\_\_\_\_ ft Cap Depth: \_\_\_\_\_ ft

Other: "Infiltrator" okay @ 4.0'

Proposed Structure: 4BR SFD. w/ POSSIBLY 1BR "ADU"

1BR "ADU" @ 34 mpi = 290' + 100%

**WATER SUPPLY:**

Source of Potable Water: Helix Water District Well Permit Number: \_\_\_\_\_

*I have reviewed this percolation data and design of the subsurface sewage disposal system for this parcel and find the data and design to be accurate and in compliance with state and local regulations, and good engineering practice.*

Registered CE, PE, Geologist, REHS: Garay C. Maxwell, REHS 3962, M. Maxwell

Address: P.O. Box 834, Alpine 91903 Phone: 619-722-6057 Date: 4-10-2022

**FOR DEPARTMENT USE ONLY**

Approved: Yes \_\_\_\_\_ No \_\_\_\_\_ Date: \_\_\_\_\_

Final Map Required: Yes \_\_\_\_\_ No \_\_\_\_\_

Specialist: \_\_\_\_\_

Date: \_\_\_\_\_

Building Plan Review: \_\_\_\_\_

Date: \_\_\_\_\_

Grading Inspection: \_\_\_\_\_

Date: \_\_\_\_\_

Water Sample Analysis Results: \_\_\_\_\_

Date: \_\_\_\_\_

NICHOLAS & ANNA MARIE ROACH (414) 698-4072

Rick Noach @ gmail.com

EUCLID AVE., ELCARON, CA

APN: 512-180-34-00

1" = 30'

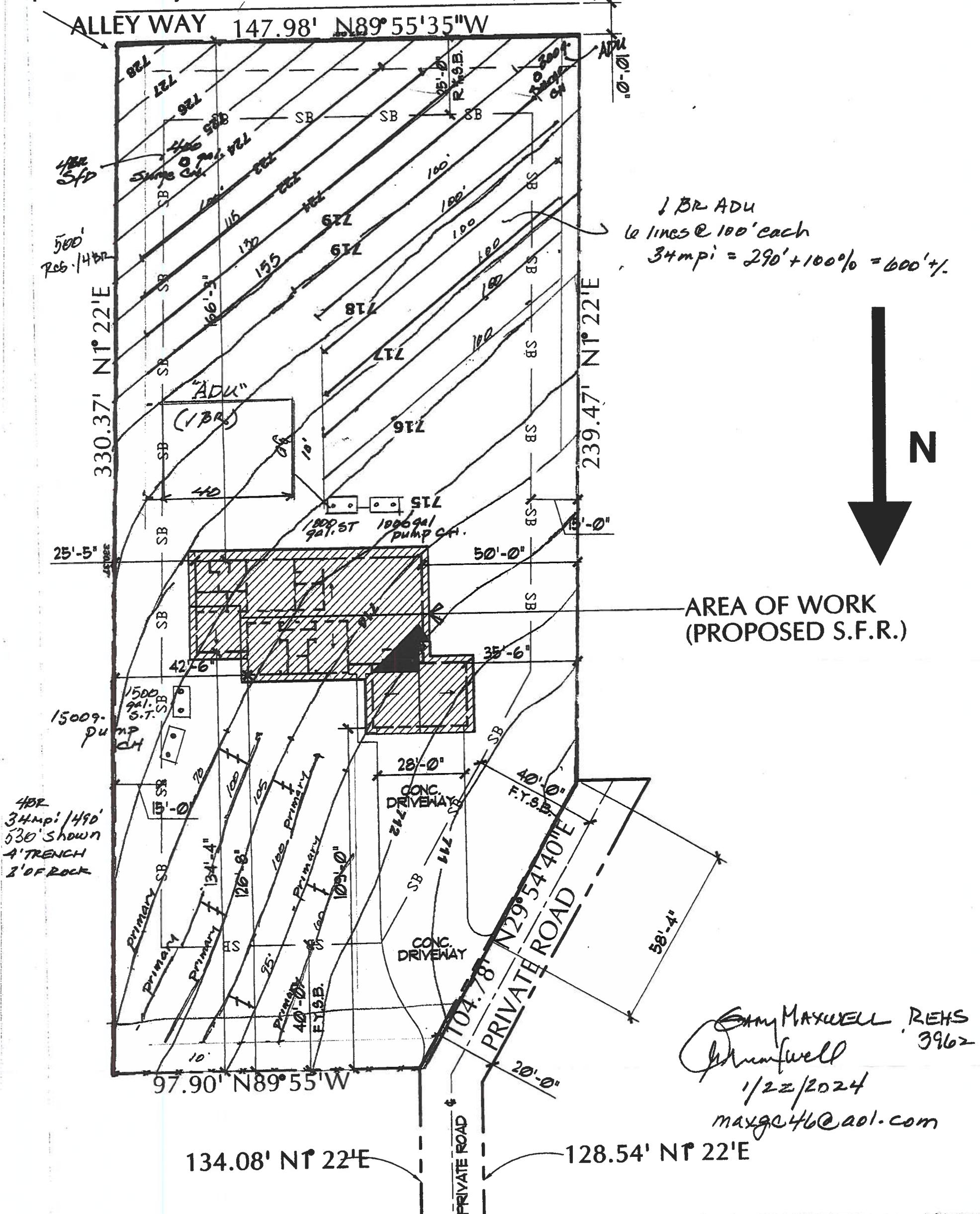
#### operator/utility

## water/utility

SCALE

## Revised Septic Layout

## **Proposed water/utility**



\* Matches building plans seen 2/23/24 @ duty counter.  
- B. Csley

