SOIL AND ENVIRONMENTAL TECHNOLOGY, INC 111 N. Franklin Street, Christiansburg, VA 24073 Phone: (540) 381-0309

MEMORANDUM

TO: Claudia B. Light

FROM: David Hall PSS, OSE

DATE: 5/19/2025

SUBJECT: Soil & Site Evaluation on TM#: 77-23G (Phadettia Rd) in Floyd Co. VA

On 4/16/2025 we evaluated the subject property, 1.68 acres located on Phadettia Rd in Floyd Co, to determine its suitability for a septic system serving a proposed 2 BR home.

The attached report details our findings and recommendations & includes a survey map showing the approximate location of the proposed drainfield, house & well site. The proposed drainfield area is staked in the field with white PVC pipes, pink ribbon, & orange flags. These stakes must be left in place & the drainfield area must not be disturbed.

This evaluation is for preliminary planning purposes only. A permit to construct the septic system is required prior to installation. When you are ready to begin the permitting process we will be happy to prepare that for you. Give us a call to discuss the next steps & cost. At a minimum the proposed house site will have to be staked off on the property & we will need to make a permit site visit. Any modifications needed can be made at that time. This site could potentially be done for a 3BR house with backhoe pits dug, but not guaranteed.

Please don't hesitate to call if you have any questions. Thank you for having us do this work for you.



Add Dire	e: licant: ress: ctions to Property:	5/19/2025 Claudia B. Light 1922 Wilshire Dr, Irvin US-221 S (6.2 mi), L o Rd (2.6 mi), R on Rte 6	g, TX 75061Floyd, VA on Rte 727/Union Scho	24091 ol Rd (4.	7 mi), L on Rte 7	
Тах	Map ID:	77-23G		PRN:	5485 (1.68 acre	s)
1.	Position in I	andscape satisfactory	Soil Information Yes x No		ary scribe: Sideslop	pe
2.	Slope 16	%				
3.	Depth to ro	ck\impervious strata:	Max. >60"	Min.	46" No	one
4.	Depth to se	asonal water table (gra	y mottling or gray colo) No	x Yes	
5.	Free water	present No x	Yes rang	ge in inch	es	
3.	Soil percola	tion rate estimated	Yes x Texture gro	•	Min/inch	ı
7.	Percolation	test performed Yes	-	ation tes	t holes	
Nam	ne and title of	f evaluator: Dav	id Hall		PSS/AOSE	
Sigr	nature:					
	28" dept	proved: Gravelless absorbed at site designated. S d. At time of evaluation	ite provides a total of	420 squ	are feet of absorp	
	Site Disa	approved:				
	1 P 2 In 3 In 4 R 5 In 6 P	osition in landscape subject to sufficient depth of suitable so sufficient depth of suitable so ates of absorption too slow. Is sufficient area of acceptable roposed system too close to the (Specify)	o flooding or periodic satura bil over hard rock. bil to seasonal water table. soil for required drainfield, a		ve area	

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 4/16/2025 Floyd County Health Department

x See application sketch See construction permit

Applicant: Claudia B. Light PRN: 5485 Tax Map#: 77-23G (1.68 ac on Phadettia Rd)

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	Α	0-8	Brown (7.5YR 4/3) Loam	2
_	BA	8-18	Brown (7.5YR 4/4) Loam	2
	Bt	18-40	Strong Brown (7.5YR 4/6) Loam	2 2 2
	С	40-60	Reddish Yellow (7.5YR 6/8) Gravelly Loam	2
Auger 2	Α	0-8	Very Dark Brown (7.5YR 2.5/3) Loam	2
_	Bt	8-24	Strong Brown (7.5YR 4/6) Loam	2 2
	С	24-46	Strong Brown (7.5YR 5/8) Loam; common Mn & Reddish Yellow (7.5YR 6/8) Lithochromic Mottles	2
	AR	46	Loose Rock	-
Auger 3	Α	0-8	Very Dark Brown (7.5YR 2.5/3) Loam	2
Ū	Bt	8-24	Strong Brown (7.5YR 4/6) Loam	2
	С	24-60	Strong Brown (7.5YR 5/8) Loam; common Mn & Reddish Yellow (7.5YR 6/8) Lithochromic Mottles	2

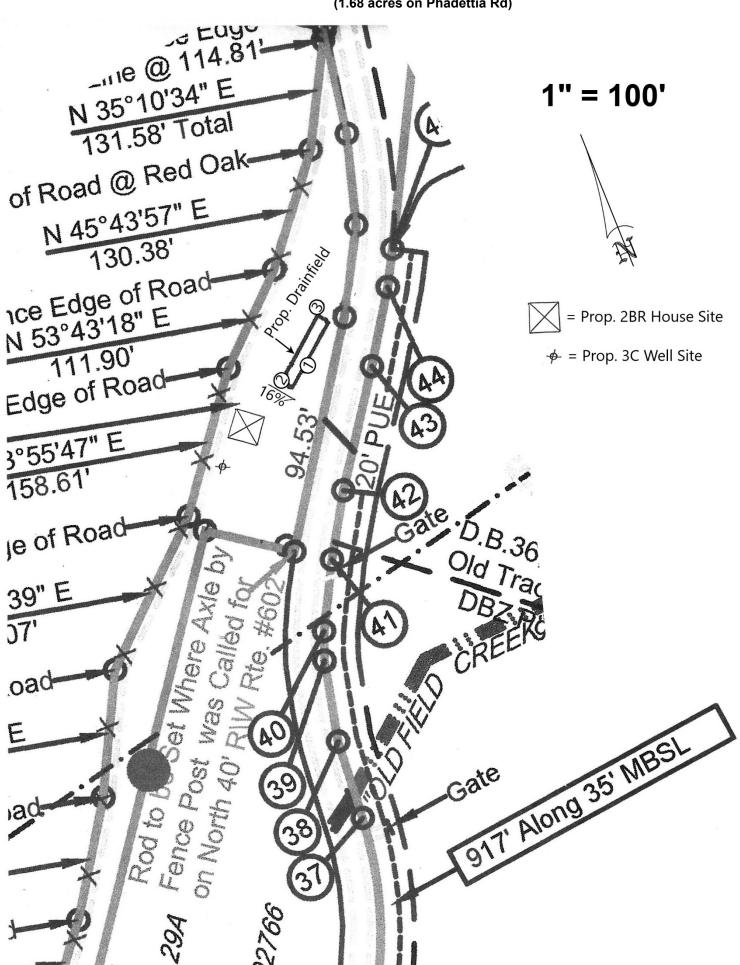
DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS

Applicant: Claudia B. Light **PRN:** 5485 **Tax Map#:** 77-23G (1.68 ac on Phadettia Rd)

Main DF		Reserve DF		
Type of system	Gravity Gravelless	Reserve Area Required	No	
EPR	30	Type of Reserve	N/A	
Slope %	16	EPR	N/A	
# Bedrooms	2	Slope %	N/A	
Gallons/Day	300	Gallons/Day	N/A	
Width of Trench (ft.)	3	Width of Trench (ft.)	N/A	
Total Square Ft. of Gravelless Trench Bottom Required per BR	200	Total Square Ft. of Trench Bottom Required	N/A	
Total Square Ft. of Gravelless Trench Bottom per BR in Design	210	Total Square Ft. of Trench Bottom in Design	N/A	
Total Square Ft. of Gravelless Trench Bottom Required	400	# Lines of Reserve	N/A	
Total Square Ft. of Gravelless Trench Bottom in Design	420	Line Length (ft.)	N/A	
# Lines Installed	2	Installed <24" from Rock or Other Impervious Strata	N/A	
Length of Line Installed (ft.)	70	Centers (ft.)	N/A	
Installed <24" from Rock or Other Impervious Strata	Yes	Width Required (ft.)	N/A	
Centers (ft.)	10	Width in Design (ft.)	N/A	
Width Required (ft.)	13	Installation Depth (inches into natural soil)	N/A	
Installation Depth (inches into natural soil)	28	Amount of Backfill Required (inches)	N/A	
Amount of Backfill Required (inches)	N/A			
		Type of Well Recommended	3B	
		Amount of Casing & Grout (ft.)	50' min	

TM#: 77-23G PRN: 5485

(1.68 acres on Phadettia Rd)





SOIL AND ENVIRONMENTAL TECHNOLOGY, INC 111 N. Franklin Street, Christiansburg, VA 24073 Phone: (540) 381-0309 Fax: (540) 381-9430

E-mail: setec@soilandenvironmentaltechnology.com

OSE Report for

Subdivision

Property Identification:

Directions to the Property:

County: Floyd					
Subdivision: Claudia B Light Sub. / Lot Line Revision					
Lots: Revised TM#:77-29, Lot 1, Lot 2, Lot 3,					
Revised TM#:77-31A, & Revised TM#:77-44A					

on Rte 799/Conner Grove Rd (2.6 mi), R on Rte 602/Phadettia Rd, +/- 0.5 miles to property on left

US-221 S (6.2 mi), L on Rte 727/Union School Rd (4.7 mi), L

Tax Map IDs: 77-29, 77-31A & 77-44A

Acreage: +/- 51 total acres

Applicant, Address & Phone Number:

Agent, Address, & Phone Number:

Claudia B. Light
1922 Wilshire Dr
Irving, TX 75061

(540) 239-2585 (Matt Gallimore - Agent) Blue Ridge Land & Auction P.O. Box 234

(540) 239-2585

Floyd, VA 24091

Date of this report:

5/19/2025

Contents of this report: (EACH LOT HAS REPORT PAGES 1-4)

OSE Cover Page & Certification Statement	Primary/Reserve Design Specifications	Page 3
INDIVIDUAL REPORTS FOR EACH LOT (PAGES 1-4)	Plat w/ Drainfield, Boring Locations, & Slope	Page 4
Soil Information Summary Page 1	Copy of Subdivision Plat	
Soil Profile Descriptions Page 2		

Certification Statement:

I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the applicable provisions of the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-630), The Regulations for Alternative Onsite Sewage Systems (12VAC5-613) and all other applicable laws, regulations and policies implemented by the Virginia Department of Health. I further certify that I currently possess any professional license required by the laws and regulations of the Commonwealth that have been duly issued by the applicable agency charged with licensure to perform the work contained herein. The potential to both conventional and alternative onsite sewage systems has been discussed with the owner/applicant.

The work attached to this cover page has been conducted under an exemption to the practice of engineering, specifically the exemption in Code of Virginia Section 54.1-402.A.11

I recommend a **subdivision** be approved.

OSE David Hall #1127



The property lines and building location and proposed sewage disposal area are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Virginia Department of Health to enter onto the property described during normal business hours for the purpose of processing this application and to perform quality assurance checks of evaluations and designs certified by a private sector Onsite Soil Evaluator or Professional Engineer as necessary until the sewage disposal system and/or private water supply has been constructed and approved.



PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 4/15/2025 Floyd County Health Department

x See application sketch See construction permit

Applicant: Claudia B. Light Sub/Lot Line Revision

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** Revised TM#: 77-29 (17.809 acres on Phadettia Rd)

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	Ap BA Bt1 Bt2	0-8 8-22 22-38 38-60	Brown (10YR 4/3) Loam Dark Yellowish Brown (10YR 4/4) Loam Dark Yellowish Brown (10YR 4/6) Sandy Clay Loam Yellowish Red (5YR 4/6) Sandy Clay Loam	2 2 2 2
Auger 2	Ap BA Bt1 Bt2	0-8 8-24 24-48 48-60	Brown (10YR 4/3) Loam Dark Yellowish Brown (10YR 4/4) Loam Dark Yellowish Brown (10YR 4/6) Sandy Clay Loam Yellowish Red (5YR 4/6) Gravelly Sandy Clay Loam	2 2 2 2
Auger 3	Ap BA Bt BC AR	0-8 8-18 18-40 40-50 50	Brown (10YR 4/3) Loam Dark Yellowish Brown (10YR 4/4) Loam Strong Brown (7.5YR 4/6) Sandy Clay Loam Strong Brown (7.5YR 4/6) Gravelly Sandy Clay Loam Grinding on Rock	2 2 2 2

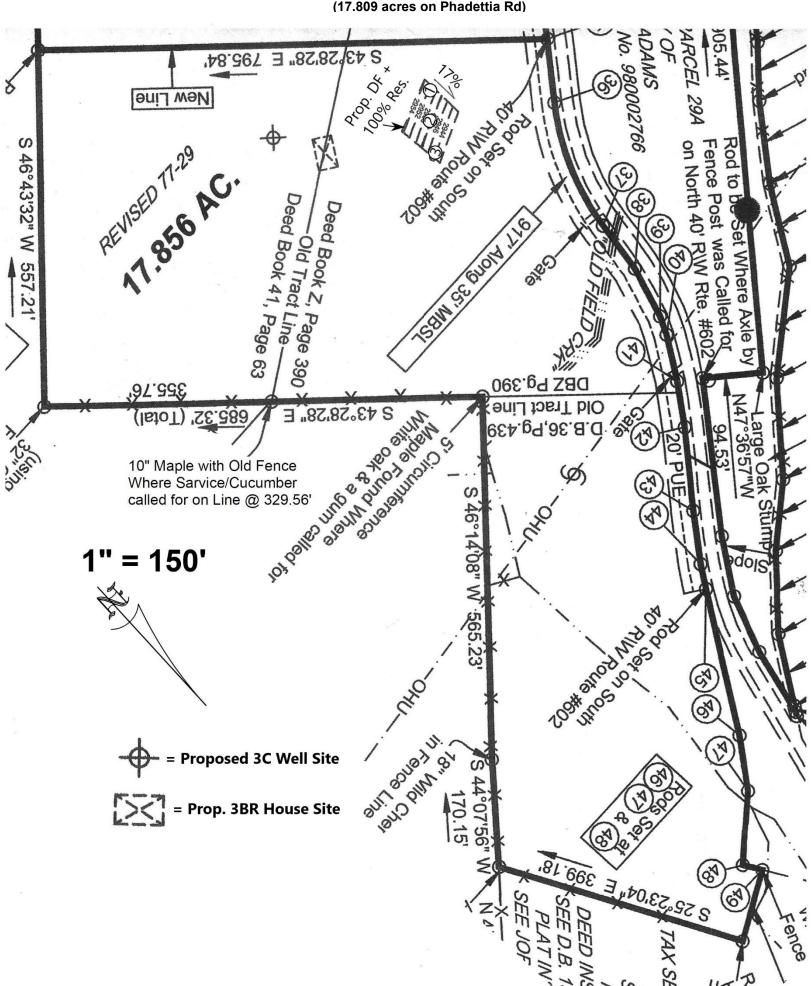
Applicant: Claudia B. Light Sub/Lot Line Revision

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** Revised TM#: 77-29 (17.809 acres on Phadettia Rd)

Main DF		100% Reserve DF		
Type of system	Gravity	Reserve Area Required	Yes	
EPR	40	Type of Reserve	Gravity	
Slope %	17	EPR	40	
# Bedrooms	3	Slope %	17	
Gallons/Day	450	Gallons/Day	450	
Width of Trench (ft.)	3	Width of Trench (ft.)	3	
Total Square Ft. of Trench Bottom Required per BR	314	Total Square Ft. of Trench Bottom Required	942	
Total Square Ft. of Trench Bottom per BR in Design	320	Total Square Ft. of Trench Bottom in Design	960	
Total Square Ft. of Trench Bottom Required	942	# Lines of Reserve	4	
Total Square Ft. of Trench Bottom in Design	960	Line Length (ft.)	80	
# Lines Installed	4	Installed <24" from Rock or Other Impervious Strata	Yes	
Length of Line Installed (ft.)	80	Centers (ft.)	10	
Installed <24" from Rock or Other Impervious Strata	Yes	Width Required (ft.)	40	
Centers (ft.)	10	Width in Design (ft.)	40	
Width Required (ft.)	33	Installation Depth (inches into natural soil)	30	
Installation Depth (inches into natural soil)	30	Amount of Backfill Required (inches)	N/A	
Amount of Backfill Required (inches)	N/A			
		Type of Well Recommended	3C	
		Amount of Casing & Grout (ft.)	20' min.	

Claudia B Light Sub/Lot Line Revision Lot - Revised TM#: 77-29

(17.809 acres on Phadettia Rd)





PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 4/15/2025 Floyd County Health Department

See application sketch See construction permit

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** 1 (10.381 acres on Phadettia Rd) Applicant: Claudia B. Light

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	Ap	0-8	Brown (10YR 4/3) Gravelly Loam	2
	Bt	8-35	Yellowish Red (5YR 4/6) Sandy Clay Loam	2
	BC	35-72	Reddish Yellow (5YR 6/8) Loam	2
Auger 2	Ap	0-4	Brown (10YR 4/3) Gravelly Loam	2
	BA	4-12	Brown (7.5YR 5/4) Gravelly Loam	2
	Bt	12-30	Strong Brown (7.5YR 5/6) Sandy Clay Loam	2
	BC	30-72	Strong Brown (7.5YR 5/6) Gravelly Loam/Sandy Loam	2
Auger 3	Ap	0-4	Brown (10YR 4/3) Gravelly Loam	2
	BA	4-14	Brown (7.5YR 5/4) Gravelly Loam	2
	Bt	14-45	Strong Brown (7.5YR 4/6) Sandy Clay Loam	2
	C	45-84	Reddish Yellow (7.5YR 6/6) Sandy Loam w/ many mica flakes	2

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** 1 (10.381 acres on Phadettia Rd) Applicant: Claudia B. Light

Main DF		100% Reserve DF		
Type of system	Gravity	Reserve Area Required	Yes	
EPR	30	Type of Reserve	Gravity	
Slope %	24	EPR	30	
# Bedrooms	3	Slope %	24	
Gallons/Day	450	Gallons/Day	450	
Width of Trench (ft.)	3	Width of Trench (ft.)	3	
Total Square Ft. of Trench Bottom Required per BR	260	Total Square Ft. of Trench Bottom Required	780	
Total Square Ft. of Trench Bottom per BR in Design	270	Total Square Ft. of Trench Bottom in Design	810	
Total Square Ft. of Trench Bottom Required	780	# Lines of Reserve	3	
Total Square Ft. of Trench Bottom in Design	810	Line Length (ft.)	90	
# Lines Installed	3	Installed <24" from Rock or Other Impervious Strata	No	
Length of Line Installed (ft.)	90	Centers (ft.)	11	
Installed <24" from Rock or Other Impervious Strata	No	Width Required (ft.)	33	
Centers (ft.)	11	Width in Design (ft.)	33	
Width Required (ft.)	25	Installation Depth (inches into natural soil)	48	
Installation Depth (inches into natural soil)	48	Amount of Backfill Required (inches)	N/A	
Amount of Backfill Required (inches)	N/A			
		Type of Well Recommended	3C	
		Amount of Casing & Grout (ft.)	20' min.	



Addi Dire the I Sub	e: licant: ress: ctions to Property: division: Map ID:	5/19/2025 Claudia B. Light 1922 Wilshire Dr, Irv US-221 S (6.2 mi), L Rd (2.6 mi), R on Rt Claudia B Light Sub, 77-29 & 77-31A (5.1	on Rte 727/Unic e 602/Phadettia F /Lot Line Revisior	on School Rd (Rd, +/- 0.7 mile	40) 239-2585 (Matt 4.7 mi), L on Rte 79	
		`		rmation Sumr		
1.	Position in I	landscape satisfactor	y Yes <u>x</u>	No	Describe: Sideslop	oe .
2.	Slope 32	%				
3.	Depth to roo	ck\impervious strata:	Max. >72"	Min. 6	60" None	
4.	Depth to se	asonal water table (g	ray mottling or gr	ay color) No	x Yes	
5.	Free water	present No x	Yes	range in in	ches	
6.	Soil percola	ation rate estimated		ture group 2 mated rate 3	2 35 Min/inch	
7.	Percolation	test performed Ye	o x Depth o	of percolation f percolation to percolation ra	est holes	
Nam	ne and title of	f evaluator: Da	avid Hall		PSS/AOSE	
Sign	ature: 🦟	1242C)	2			
	30" dept	proved: Gravelless ab th at site designated. drainfield and 675 sq	Site provides a t	otal of 675 sc		
	Site Disa	approved:				
Rea: 1 2 3 4 5 6 7	Position Insufficie Insufficie Rates of Insufficie	tion: (check all that ap in landscape subject ent depth of suitable sent depth of suitable sent depth of suitable sent area of acceptable system too close to Specify)	t to flooding or pe soil over hard roc soil to seasonal w e soil for required	k. ⁄ater table.		

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 4/15/2025 Floyd County Health Department

See construction permit See application sketch

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** 2 (5.184 acres on Phadettia Rd) Applicant: Claudia B. Light

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	A Bt BC C	0-2 2-24 24-35 35-75	Very Dark Brown (10YR 2/2) Loam Dark Yellowish Brown (10YR 3/6) Loam Dark Olive Brown (2.5Y 3/3) Loam Very Dark Grayish Brown (2.5Y 3/2) Sandy Loam w/ many mica flakes	2 2 2 2
Auger 2	A BA Bt1 Bt2 C	0-2 2-12 12-36 36-50 50-60	Dark Brown (7.5YR 3/4) Loam Brown (7.5YR 4/4) Loam Strong Brown (7.5YR 5/6) Loam Yellowish Red (5YR 4/6) Loam Yellowish Red (5YR 4/6) Loam; few Brownish Yellow (10YR 6/8) Lithochromic Mottles & Mn concretions	2 2 2 2 2
Auger 3	A Bt BC1 BC2	0-4 4-20 20-48 48-60	Dark Brown (10YR 3/3) Loam Dark Yellowish Brown (10YR 4/6) Loam Dark Yellowish Brown (10YR 4/4) Loam w/ many mica flakes Dark Yellowish Brown (10YR 4/4) Gravelly Loam w/ many mica flakes; few Red (10R 4/8) & Strong Brown (7.5YR 5/8) Lithochromic Mottles	2 2 2 2

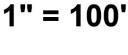
Applicant: Claudia B. Light

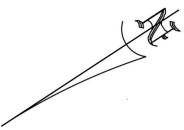
Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** 2 (5.184 acres on Phadettia Rd)

Main DF		100% Reserve DF	
Type of system	Gravity Gravelless	Reserve Area Required	Yes
EPR	35	Type of Reserve	Gravity Gravelless
Slope %	32	EPR	35
# Bedrooms	3	Slope %	32
Gallons/Day	450	Gallons/Day	450
Width of Trench (ft.)	3	Width of Trench (ft.)	3
Total Square Ft. of Gravelless Trench Bottom Required per BR	215	Total Square Ft. of Gravelless Trench Bottom Required	645
Total Square Ft. of Gravelless Trench Bottom per BR in Design	225	Total Square Ft. of Gravelless Trench Bottom in Design	675
Total Square Ft. of Gravelless Trench Bottom Required	645	# Lines of Reserve	3
Total Square Ft. of Gravelless Trench Bottom in Design	675	Line Length (ft.)	75
# Lines Installed	3	Installed <24" from Rock or Other Impervious Strata	No
Length of Line Installed (ft.)	75	Centers (ft.)	12
Installed <24" from Rock or Other Impervious Strata	No	Width Required (ft.)	36
Centers (ft.)	12	Width in Design (ft.)	36
Width Required (ft.)	27	Installation Depth (inches into natural soil)	30
Installation Depth (inches into natural soil)	30	Amount of Backfill Required (inches)	N/A
Amount of Backfill Required (inches)	N/A		
		Type of Well Recommended	3C
		Amount of Casing & Grout (ft.)	20' min.

Claudia B Light Sub/Lot Line Revision Lot 2

(5.184 acres on Phadettia Rd)

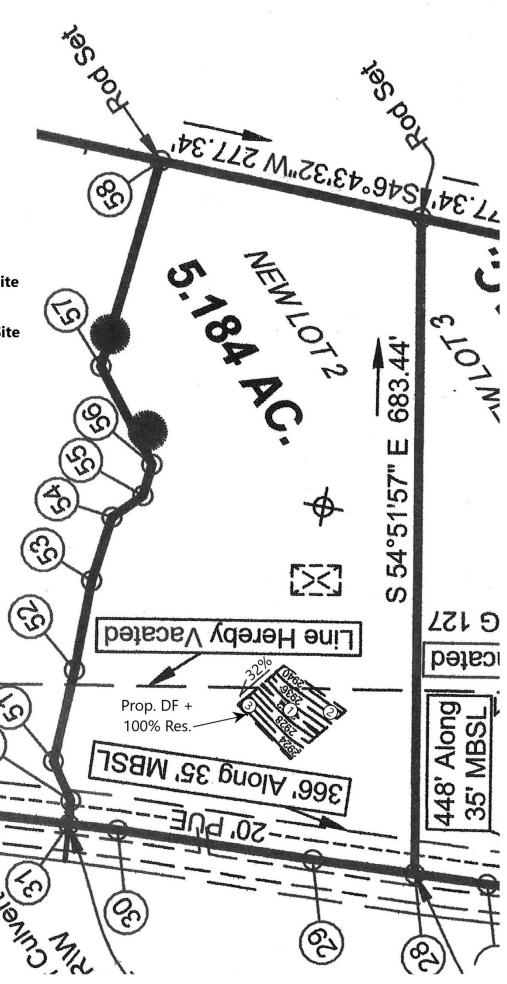




= Proposed 3C Well Site



= Prop. 3BR House Site





Date: Applicar Address Direction the Prop Subdivis Tax Map	s: ns to perty: sion:	5/19/2025 Claudia B. Light 1922 Wilshire Dr, Ir US-221 S (6.2 mi), Rd (2.6 mi), R on R Claudia B Light Sub 77-29 & 77-31A (4.9	L on Rte 727/Unic te 602/Phadettia F b/Lot Line Revision	on School Rd (Rd, +/- 0.8 mil	(4.7 mi), L on Rte les to property on	att Gallimore - Agent) 799/Conner Grove
1. Po	sition in la	andscape satisfacto		rmation Sum	mary Describe: Sides	lope
2. Slo	pe 16	%				
3. De	pth to roo	ck\impervious strata:	Max. >60"	Min.	48" None	
4. De	pth to sea	asonal water table (gray mottling or gr	ay color) No	o x Yes	
5. Fre	ee water ¡	present No x	Yes	range in ir	nches	
6. So	il percola	tion rate estimated		• .	2 40 Min/in	ch
7. Pe	rcolation	•	lo x Depth o	of percolation f percolation to percolation r	test holes	
Name a	nd title of	evaluator: D	avid Hall		PSS/AOSE	
Signatu	re:	12421	2			
	30" dept	proved: Gravelless al h at site designated drainfield and 720 so	Site provides a t	otal of 720 s		
	Site Disa	approved:				
Reason 1 2 3 4 5 6 7	Position Insufficie Insufficie Rates of Insufficie	tion: (check all that a in landscape subject ent depth of suitable ent depth of suitable absorption too slow ent area of acceptab d system too close to specify)	t to flooding or pe soil over hard roc soil to seasonal w le soil for required	k. ⁄ater table.		

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 4/24/2025 Floyd County Health Department

See application sketch See construction permit

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** 3 (4.998 acres on Phadettia Rd) Applicant: Claudia B. Light

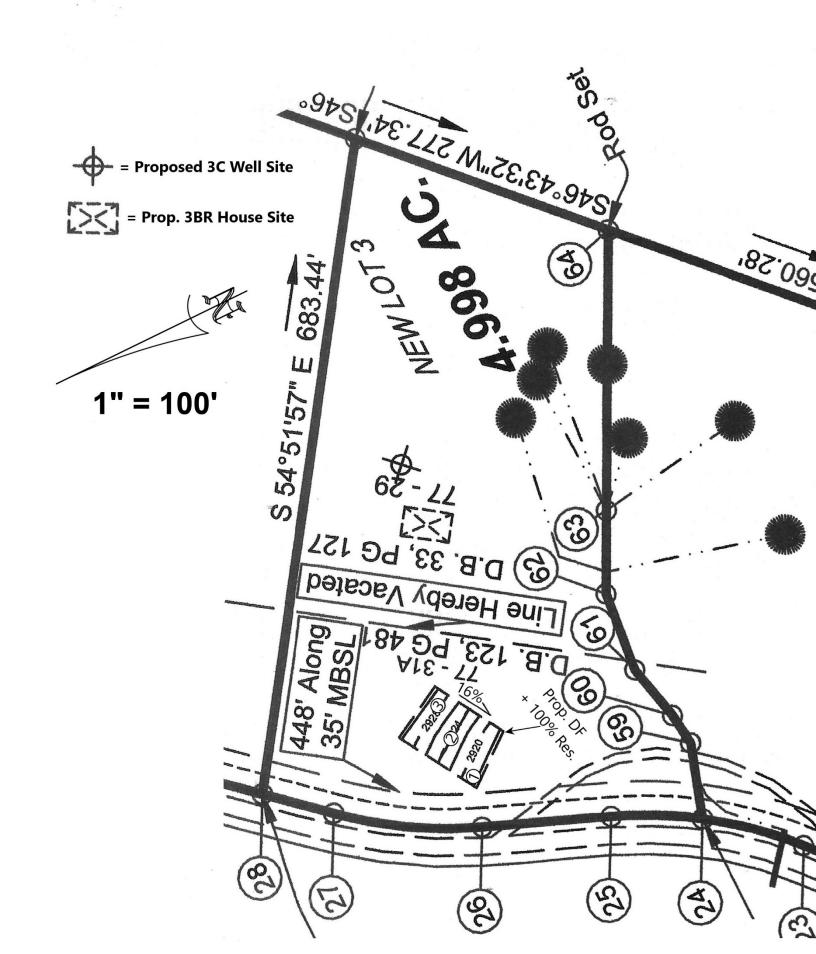
Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	A	0-1	Dark Yellowish Brown (10YR 3/4) Silt Loam	3
	BA	1-15	Dark Yellowish Brown (10YR 4/4) Loam	2
	Bt	15-30	Dark Yellowish Brown (10YR 4/6) Loam	2
	C	30-60	Strong Brown (7.5YR 4/6) Loam w/ many mica flakes	2
Auger 2	A	0-3	Dark Yellowish Brown (10YR 3/4) Loam	2
	Bt	3-24	Brown (10YR 4/3) Loam	2
	BC	24-36	Dark Olive Brown (2.5Y 3/3) Loam	2
	C	36-60	Dark Olive Brown (2.5Y 3/3) Sandy Loam	2
Auger 3	A BA Bw 2C AR	0-3 3-12 12-30 30-48 48	Dark Olive Brown (2.5Y 3/3) Loam Olive Brown (2.5Y 4/3) Gravelly Loam Dark Yellowish Brown (10YR 4/4) Gravelly Loam Strong Brown (7.5YR 4/6) Gravelly Sandy Loam Loose rock	2 2 2 2

Applicant: Claudia B. Light Subdivision: Claudia B L

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** 3 (4.998 acres on Phadettia Rd)

Main DF		100% Reserve DF		
Type of system	Gravity Gravelless	Reserve Area Required	Yes	
EPR	40	Type of Reserve	Gravity Gravelless	
Slope %	16	EPR	40	
# Bedrooms	3	Slope %	16	
Gallons/Day	450	Gallons/Day	450	
Width of Trench (ft.)	3	Width of Trench (ft.)	3	
Total Square Ft. of Gravelless Trench Bottom Required per BR	236	Total Square Ft. of Gravelless Trench Bottom Required	708	
Total Square Ft. of Gravelless Trench Bottom per BR in Design	240	Total Square Ft. of Gravelless Trench Bottom in Design	720	
Total Square Ft. of Gravelless Trench Bottom Required	708	# Lines of Reserve	4	
Total Square Ft. of Gravelless Trench Bottom in Design	720	Line Length (ft.)	60	
# Lines Installed	4	Installed <24" from Rock or Other Impervious Strata	Yes	
Length of Line Installed (ft.)	60	Centers (ft.)	10	
Installed <24" from Rock or Other Impervious Strata	Yes	Width Required (ft.)	40	
Centers (ft.)	10	Width in Design (ft.)	40	
Width Required (ft.)	33	Installation Depth (inches into natural soil)	30	
Installation Depth (inches into natural soil)	30	Amount of Backfill Required (inches)	N/A	
Amount of Backfill Required (inches)	N/A			
		Type of Well Recommended	3C	
		Amount of Casing & Grout (ft.)	20' min.	

(4.998 acres on Phadettia Rd)





Date: Applicar Address Direction the Prop Subdivis Tax Map	s: ns to perty: sion:	Rd (2.6 mi), R on Claudia B Light Si		on School Rd (Rd, +/- 0.9 mile	4.7 mi), L on Rt	Matt Gallimore - Agent) e 799/Conner Grove n left
1. Po	sition in la	andscape satisfact		No No	mary Describe: Side	slope
2. Slo	pe 13	%				
3. De	pth to roo	ck∖impervious strat	a: Max. >89"	Min. 8	34" None	
4. De	pth to sea	asonal water table	(gray mottling or g	ray color) No	x Yes	
5. Fre	ee water ¡	present No	Yes	range in in	ches	
6. So	il percola	tion rate estimated	——	• .	2 45 Min /i	nch
7. Pe	rcolation	test performed	No x Depth	r of percolation of percolation to e percolation ra	est holes	
Name a	nd title of	evaluator:	David Hall		PSS/AOSE	<u> </u>
Signatui	Site App 60" dept	h at site designate	absorption trenched. Site provides a square feet for 100	total of 840 so		nt to be placed at sorption area for the
		approved:	- 1			
Reason 1 2 3 4 5 6 7	Position Insufficie Insufficie Rates of Insufficie	ent depth of suitablent depth of suitablent depth of suitable absorption too sloent area of acceptad system too close	ect to flooding or pe e soil over hard roo e soil to seasonal v w. ble soil for required	ck. vater table.		a

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 4/15/2025 Floyd County Health Department

x See application sketch See construction permit

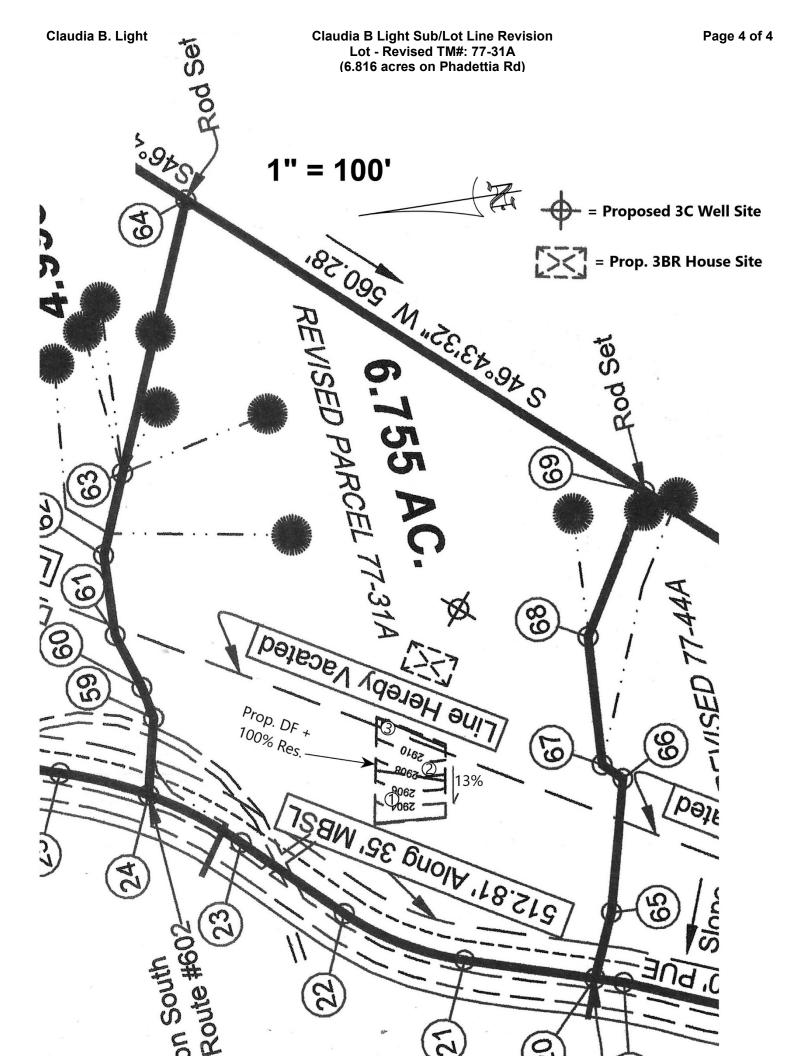
Applicant: Claudia B. Light Sub/Lot Line Revision

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** Revised TM#: 77-31A (6.816 acres on Phadettia Rd)

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	A Bt BC C	0-5 5-21 21-30 30-87	Dark Brown (7.5YR 3/3) Loam Brown (7.5YR 4/4) Loam Strong Brown (7.5YR 4/6) Loam; common Mn Strong Brown (7.5YR 5/6) Loam w/ many mica flakes; common Mn	2 2 2 2
Auger 2	A BA Bt BC C	0-5 5-15 15-35 35-48 48-84	Dark Brown (7.5YR 3/4) Loam Strong Brown (7.5YR 4/6) Loam Strong Brown (7.5YR 4/6) Clay Loam Strong Brown (7.5YR 4/6) Loam; few Mn Strong Brown (7.5YR 4/6) Loam; few Mn Strong Brown (7.5YR 5/8) Loam w/ many mica flakes	2 2 3 2 2
Auger 3	A Bt1 Bt2 BC C	0-5 5-25 25-45 45-66 66-89	Dark Brown (7.5YR 3/3) Loam Strong Brown (7.5YR 4/6) Loam Strong Brown (7.5YR 5/8) Loam; common Mn Strong Brown (7.5YR 4/6) Loam; common Mn Strong Brown (7.5YR 4/6) Loam w/ many mica flakes; few Mn	2 2 2 2 2

Subdivision: Claudia B Light Sub/Lot Line Revision
Lot: Revised TM#: 77-31A (6.816 acres on Phadettia Rd) Applicant: Claudia B. Light

Main DF		100% Reserve DF		
Type of system	Gravity Gravelless	Reserve Area Required	Yes	
EPR	45	Type of Reserve	Gravity Gravelless	
Slope %	13	EPR	45	
# Bedrooms	3	Slope %	13	
Gallons/Day	450	Gallons/Day		
Width of Trench (ft.)	3	Width of Trench (ft.)	3	
Total Square Ft. of Gravelless Trench Bottom Required per BR	258	Total Square Ft. of Gravelless Trench Bottom Required	774	
Total Square Ft. of Gravelless Trench Bottom per BR in Design	280	Total Square Ft. of Gravelless Trench Bottom in Design	840	
Total Square Ft. of Gravelless Trench Bottom Required	774	# Lines of Reserve	4	
Total Square Ft. of Gravelless Trench Bottom in Design	840	Line Length (ft.)	70	
# Lines Installed	4	Installed <24" from Rock or Other Impervious Strata	No	
Length of Line Installed (ft.)	70	Centers (ft.)	10	
Installed <24" from Rock or Other Impervious Strata	No	Width Required (ft.)	40	
Centers (ft.)	10	Width in Design (ft.)	40	
Width Required (ft.)	33	Installation Depth (inches into natural soil)	60	
Installation Depth (inches into natural soil)	60	Amount of Backfill Required (inches)	N/A	
Amount of Backfill Required (inches)	N/A			
		Type of Well Recommended	3C	
		Amount of Casing & Grout (ft.)	20' min.	





the P Subd	cant:	5/19/2025 Claudia B. Light 1922 Wilshire Dr, Irv US-221 S (6.2 mi), L Rd (2.6 mi), R on Rto Claudia B Light Sub/ 77-29, 77-31A, & 77	on Rte 727/Unio e 602/Phadettia R Lot Line Revision	n School Rd (Rd, +/- 1 mile t n Lot	540) 239-2585 (Matt (4.7 mi), L on Rte 79	99/Conner Grove
1.	Position in la	andscape satisfactory		rmation Sum	mary Describe: Sideslop	pe
2.	Slope 16	%				
3.	Depth to roo	ck\impervious strata:	Max. >60"	Min. 4	42" None	
4.	Depth to sea	asonal water table (g	ray mottling or gra	ay color) No	x Yes	
5.	Free water _l	present No x	Yes	range in in	nches	
6.	Soil percola	tion rate estimated		• .	3 46 Min/inch	
7.	Percolation	test performed Ye	x Depth of	of percolation f percolation to percolation r	est holes	
Name	e and title of	evaluator: Da	avid Hall		PSS/AOSE	
Signa	Site App site desi	proved: Absorption tragnated. Site provided and 675 square fee	s a total of 1125	square feet o	of absorption area fo	r the primary
	Site Disa	approved:				
Reas 1 2 3 4 5 6 7	Position Insufficie Insufficie Rates of Insufficie	tion: (check all that ap in landscape subject ent depth of suitable sent depth of suitable sent depth of suitable sent absorption too slow. ent area of acceptable of system too close to specify)	to flooding or per soil over hard rock soil to seasonal w e soil for required	k. rater table.		

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 4/15/2025 Floyd County Health Department

x See application sketch See construction permit

Applicant: Claudia B. Light Sub/Lot Line Revision

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** Revised TM#: 77-44A (6.38 acres on Phadettia Rd)

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	A BA Bt AR	0-2 2-30 30-42 42	Dark Brown (7.5YR 3/3) Loam Brown (7.5YR 4/4) Loam Strong Brown (7.5YR 4/6) Clay Loam Loose Rock	2 2 3 -
Auger 2	A BA Bt1 Bt2	0-2 2-18 18-30 30-60	Dark Brown (10YR 3/3) Loam Dark Yellowish Brown (10YR 3/6) Loam Strong Brown (7.5YR 4/6) Clay Loam Yellowish Red (5YR 4/6) Clay Loam; few Yellowish Brown (10YR 5/8) Lithochromic Mottles	2 2 3 3
Auger 3	A BA Bt1 Bt2	0-2 2-18 18-30 30-54	Dark Brown (10YR 3/3) Loam Dark Yellowish Brown (10YR 3/6) Loam Strong Brown (7.5YR 4/6) Clay Loam Yellowish Red (5YR 4/6) Clay Loam; few Yellowish Brown (10YR 5/8) Lithochromic Mottles Loose Rock	2 2 3 3

Subdivision: Claudia B Light Sub/Lot Line Revision **Lot:** Revised TM#: 77-44A (6.38 acres on Phadettia Rd) Applicant: Claudia B. Light

Main DF		100% Reserve DF			
Type of system	Gravity	Reserve Area Required	Yes		
EPR	46	Type of Reserve	TL-2 Pretreatment into Conventional Lines		
Slope %	16	EPR	46		
# Bedrooms	3	Design Loading Rate (gpd/ft²)	0.667		
Gallons/Day	450	Slope %	16		
Width of Trench (ft.)	3	Gallons/Day	450		
Total Square Ft. of Trench Bottom Required per BR	351	Width of Trench (ft.)	3		
Total Square Ft. of Trench Bottom per BR in Design	375	Total Square Ft. of Trench Bottom Required	636		
Total Square Ft. of Trench Bottom Required	1052	Total Square Ft. of Trench Bottom in Design	675		
Total Square Ft. of Trench Bottom in Design	1125	# Lines of Reserve	3		
# Lines Installed	5	Line Length (ft.)	75		
Length of Line Installed (ft.)	75	Installed <24" from Rock or Other Impervious Strata	Yes		
Installed <24" from Rock or Other Impervious Strata	Yes	Centers (ft.)	10		
Centers (ft.)	10	Width Required (ft.)	30		
Width Required (ft.)	43	Width in Design (ft.)	30		
Installation Depth (inches into natural soil)	24	Installation Depth (inches into natural soil)	24		
Amount of Backfill Required (inches)	N/A	Amount of Backfill Required (inches)	N/A		
		Type of Well Recommended	3C		
		Amount of Casing & Grout (ft.)	20' min.		

