

SETEC

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

General Information

Date: 8/31/2026
Applicant: Russell T. Ingram Estate
Address: 102 S Locust St, Floyd, VA 24091
Directions to the Property: US-221 N, +/- 8 miles to property on left located ACROSS from 4214 Floyd Hwy N
Subdivision: Ingram - Floyd Hwy N Subdivision of TM#: 31-9D Lot: 1
Tax Map ID: 31-9D (7.3152 acre portion)

Floyd County Health Department
Phone #: (540) 230-7162
Levi Cox - Agent

Soil Information Summary

1. Position in landscape satisfactory Yes ☒ No ☐ Describe: Sideslope
2. Slope 9 %
3. Depth to rock/impervious strata\ auger refusal (AR)/bottom of boring: Max. >60" Min. >60" None
4. Depth to seasonal water table (gray mottling or gray color) No ☒ Yes ☐
5. Free water present No ☒ Yes ☐ range in inches
6. Soil percolation rate estimated Yes ☒ Texture group 2
No ☐ Estimated rate 35 Min/inch
7. Percolation test performed Yes ☐ Number of percolation test holes
No ☒ Depth of percolation test holes
Average percolation rate

Name and title of evaluator: Olivia Simpson AOSE

Signature:



- X** Site Approved: Absorption trenches dispersing septic tank effluent to be placed at 42" depth at site designated. Site provides a total of 900 square feet of absorption area for the drainfield. At time of evaluation this site does not require a reserve.

Site Disapproved:

Reason for rejection: (check all that apply)

- 1 ☐ Position in landscape subject to flooding or periodic saturation.
- 2 ☐ Insufficient depth of suitable soil over hard rock.
- 3 ☐ Insufficient depth of suitable soil to seasonal water table.
- 4 ☐ Rates of absorption too slow.
- 5 ☐ Insufficient area of acceptable soil for required drainfield, and/or reserve area
- 6 ☐ Proposed system too close to well
- 7 ☐ Other (Specify)

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 8/20/2026

Floyd County Health Department

x See application sketch

See construction permit

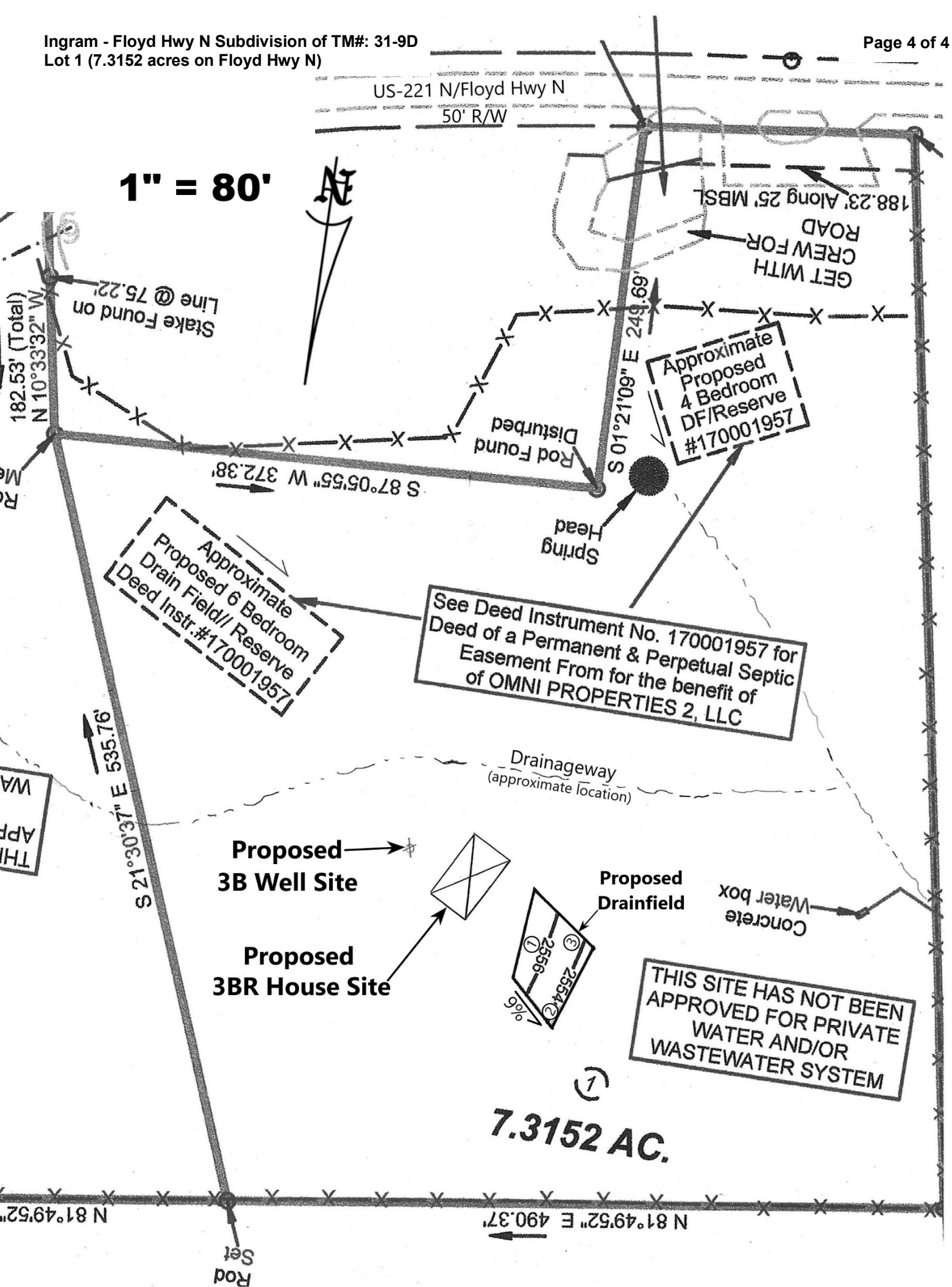
Subdivision: Ingram - Floyd Hwy N Subdivision of TM#: 31-9D**Lot:** 1 (7.3152 acres on Floyd Hwy N)

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	Ap	0-6	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bw	6-20	Yellowish Brown (10YR 5/6) Loam w/ many mica flakes	2
	C	20-60	Dark Yellowish Brown (10YR 4/6) Sandy Loam w/ many mica flakes	2
Auger 2	Ap	0-6	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bw	6-20	Yellowish Brown (10YR 5/6) Loam w/ many mica flakes	2
	C	20-60	Dark Yellowish Brown (10YR 4/6) Sandy Loam w/ many mica flakes	2
Auger 3	Ap	0-6	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bw	6-24	Yellowish Brown (10YR 5/6) Loam w/ many mica flakes	2
	C	24-60	Dark Yellowish Brown (10YR 4/6) Sandy Loam w/ many mica flakes	2

DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS**Subdivision:** Ingram - Floyd Hwy N Subdivision of TM#: 31-9D**Lot:** 1 (7.3152 acres on Floyd Hwy N)

Main DF		Reserve DF	
Type of system	Gravity	Reserve Area Required	No
EPR	35	Type of Reserve	N/A
Slope %	9	EPR	N/A
# Bedrooms	3	Slope %	N/A
Gallons/Day	450	Gallons/Day	N/A
Width of Trench (ft.)	3	Width of Trench (ft.)	N/A
Total Square Ft. of Trench Bottom Required per BR	286	Total Square Ft. of Trench Bottom Required	N/A
Total Square Ft. of Trench Bottom per BR in Design	300	Total Square Ft. of Trench Bottom in Design	N/A
Total Square Ft. of Trench Bottom Required	858	# Lines of Reserve	N/A
Total Square Ft. of Trench Bottom in Design	900	Line Length (ft.)	N/A
# Lines Installed	5	Installed <24" from Rock or Other Impervious Strata	N/A
Length of Line Installed (ft.)	60	Centers (ft.)	N/A
Installed <24" from bottom of boring, rock or other Impervious Strata	Yes	Width Required (ft.)	N/A
Centers (ft.)	10	Width in Design (ft.)	N/A
Width Required (ft.)	43	Installation Depth (inches into natural soil)	N/A
Installation Depth (inches into natural soil)	42	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

This evaluation is for preliminary planning purposes only.*A permit to construct is required prior to installing septic and well.**



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General Information

Date: 8/31/2026
Applicant: Russell T. Ingram Estate
Address: 102 S Locust St, Floyd, VA 24091
Directions to the Property: US-221 N, +/- 8.1 miles to property on left located just AFTER 4267 Floyd Hwy N
Subdivision: Ingram - Floyd Hwy N Subdivision of TM#: 31-9D Lot: 2
Tax Map ID: 31-9D (4.6836 acre portion)

Floyd County Health Department
Phone #: (540) 230-7162
Levi Cox - Agent

Soil Information Summary

1. Position in landscape satisfactory Yes ☒ No ☐ Describe: Sideslope
2. Slope 11 %
3. Depth to rock\impervious strata\ auger refusal (AR)/bottom of boring: Max. >60" Min. >60" None
4. Depth to seasonal water table (gray mottling or gray color) No ☒ Yes ☐
5. Free water present No ☒ Yes ☐ range in inches
6. Soil percolation rate estimated Yes ☒ Texture group 2
No ☐ Estimated rate 35 Min/inch
7. Percolation test performed Yes ☐ Number of percolation test holes
No ☒ Depth of percolation test holes
Average percolation rate

Name and title of evaluator: Olivia Simpson AOSE

Signature:



- X** Site Approved: Absorption trenches dispersing septic tank effluent to be placed at 42" depth at site designated. Site provides a total of 900 square feet of absorption area for the drainfield. At time of evaluation this site does not require a reserve.

Site Disapproved:

Reason for rejection: (check all that apply)

- 1 ☐ Position in landscape subject to flooding or periodic saturation.
- 2 ☐ Insufficient depth of suitable soil over hard rock.
- 3 ☐ Insufficient depth of suitable soil to seasonal water table.
- 4 ☐ Rates of absorption too slow.
- 5 ☐ Insufficient area of acceptable soil for required drainfield, and/or reserve area
- 6 ☐ Proposed system too close to well
- 7 ☐ Other (Specify)

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 8/20/2026

Floyd County Health Department

x See application sketch

See construction permit

Subdivision: Ingram - Floyd Hwy N Subdivision of TM#: 31-9D**Lot:** 2 (4.6836 acres on Floyd Hwy N)

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	Ap	0-4	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bt	4-30	Strong Brown (7.5YR 4/6) Clay Loam w/ many mica flakes	3
	C	30-60	Brown (7.5YR 4/4) Sandy Loam w/ many mica flakes	2
Auger 2	Ap	0-4	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bt	4-24	Strong Brown (7.5YR 4/6) Clay Loam w/ many mica flakes	3
	BC	24-36	Strong Brown (7.5YR 4/6) Loam w/ many mica flakes	2
	C	36-60	Brown (7.5YR 4/4) Sandy Loam w/ many mica flakes	2
Auger 3	Ap	0-8	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bt	8-28	Strong Brown (7.5YR 4/6) Clay Loam w/ many mica flakes	3
	C	28-60	Strong Brown (7.5YR 5/6) Sandy Loam w/ many mica flakes	2

DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS**Subdivision:** Ingram - Floyd Hwy N Subdivision of TM#: 31-9D**Lot:** 2 (4.6836 acres on Floyd Hwy N)

Main DF		Reserve DF	
Type of system	Gravity	Reserve Area Required	No
EPR	35	Type of Reserve	N/A
Slope %	11	EPR	N/A
# Bedrooms	3	Slope %	N/A
Gallons/Day	450	Gallons/Day	N/A
Width of Trench (ft.)	3	Width of Trench (ft.)	N/A
Total Square Ft. of Trench Bottom Required per BR	286	Total Square Ft. of Trench Bottom Required	N/A
Total Square Ft. of Trench Bottom per BR in Design	300	Total Square Ft. of Trench Bottom in Design	N/A
Total Square Ft. of Trench Bottom Required	858	# Lines of Reserve	N/A
Total Square Ft. of Trench Bottom in Design	900	Line Length (ft.)	N/A
# Lines Installed	4	Installed <24" from bottom of boring, rock or other Impervious Strata	N/A
Length of Line Installed (ft.)	75	Centers (ft.)	N/A
Installed <24" from bottom of boring, rock or other Impervious Strata	Yes	Width Required (ft.)	N/A
Centers (ft.)	10	Width in Design (ft.)	N/A
Width Required (ft.)	33	Installation Depth (inches into natural soil)	N/A
Installation Depth (inches into natural soil)	42	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

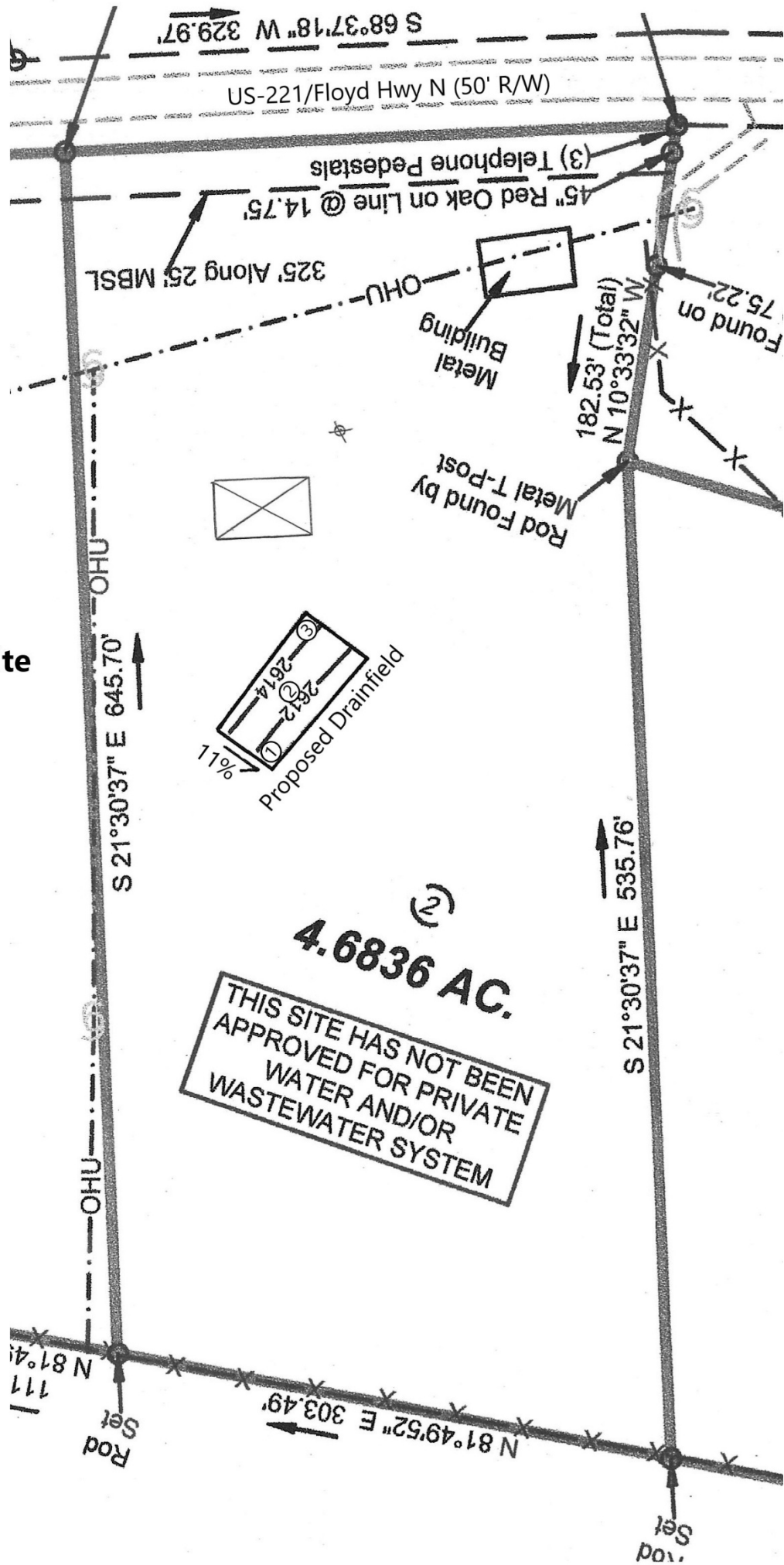
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1" = 80'



⊗ = Proposed 3B Well Site

⊠ = Proposed 3BR House Site



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General Information

Date: 8/31/2026
 Applicant: Russell T. Ingram Estate
 Address: 102 S Locust St, Floyd, VA 24091
 Directions to the Property: US-221 N, +/- 8.2 miles to property on left, 2ND lot PAST 4267 Floyd Hwy N
 Subdivision: Ingram - Floyd Hwy N Subdivision of TM#: 31-9D
 Tax Map ID: 31-9D (3.1196 acre portion)

Floyd County Health Department
 Phone #: (540) 230-7162
 Levi Cox - Agent
 Lot: 3

Soil Information Summary

1. Position in landscape satisfactory Yes ☒ No ☐ Describe: Sideslope
2. Slope 14 %
3. Depth to rock/impervious strata\ auger refusal (AR)/bottom of boring: Max. >60" Min. 54" None
4. Depth to seasonal water table (gray mottling or gray color) No ☒ Yes ☐
5. Free water present No ☒ Yes ☐ range in inches
6. Soil percolation rate estimated Yes ☒ No ☐ Texture group 2
Estimated rate 35 Min/inch
7. Percolation test performed Yes ☐ No ☒ Number of percolation test holes
Depth of percolation test holes
Average percolation rate

Name and title of evaluator: Olivia Simpson AOSE

Signature: 

- X** Site Approved: Absorption trenches dispersing septic tank effluent to be placed at 36" depth at site designated. Site provides a total of 900 square feet of absorption area for the drainfield. At time of evaluation this site does not require a reserve.

Site Disapproved:

Reason for rejection: (check all that apply)

- 1 ☐ Position in landscape subject to flooding or periodic saturation.
- 2 ☐ Insufficient depth of suitable soil over hard rock.
- 3 ☐ Insufficient depth of suitable soil to seasonal water table.
- 4 ☐ Rates of absorption too slow.
- 5 ☐ Insufficient area of acceptable soil for required drainfield, and/or reserve area
- 6 ☐ Proposed system too close to well
- 7 ☐ Other (Specify)

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 8/20/2026

Floyd County Health Department

x See application sketch

See construction permit

Subdivision: Ingram - Floyd Hwy N Subdivision of TM#: 31-9D**Lot:** 3 (3.1196 acres on Floyd Hwy N)

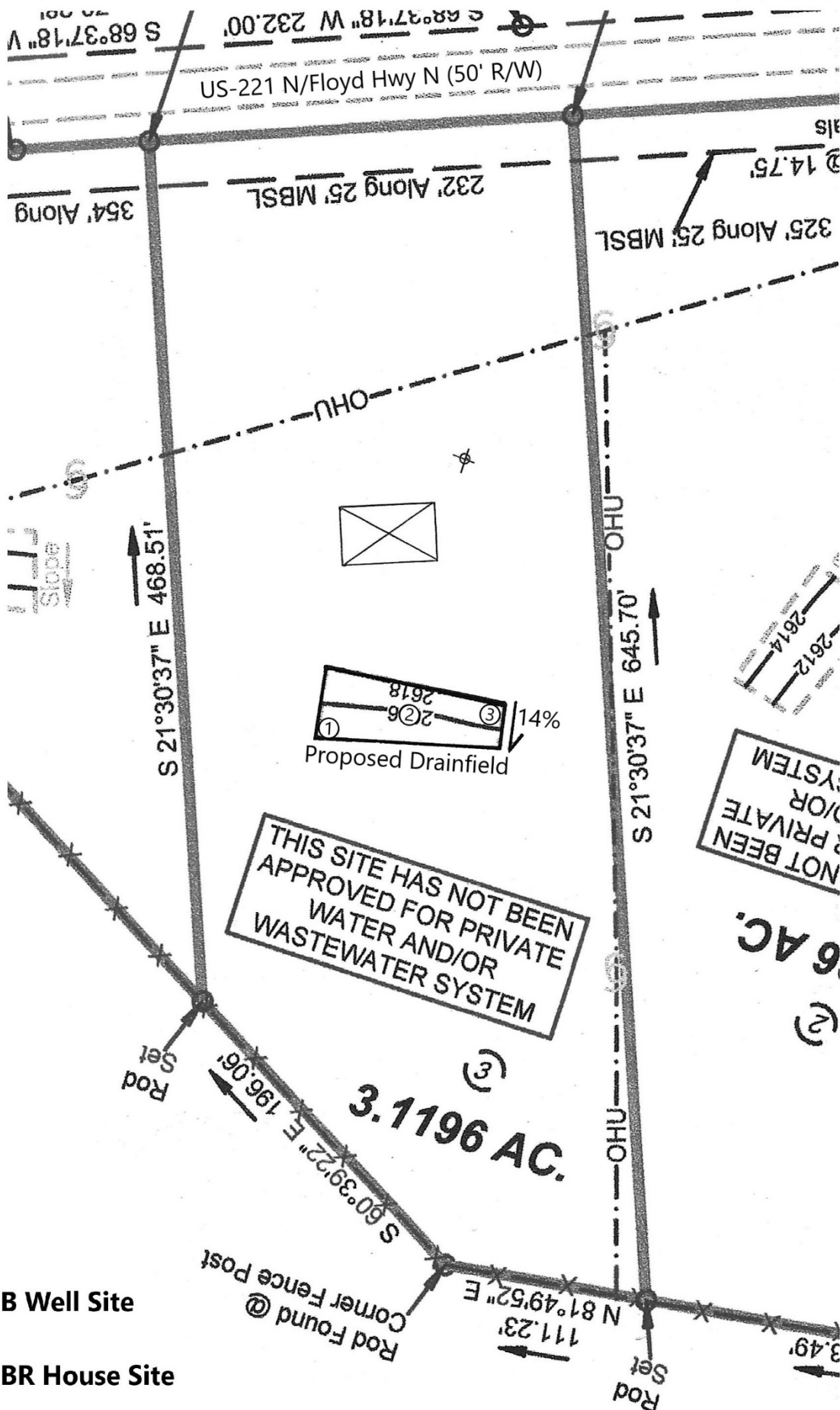
Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	Ap	0-4	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bt	4-28	Strong Brown (7.5YR 4/6) Sandy Clay Loam w/ many mica flakes	2
	BC	28-40	Strong Brown (7.5YR 4/6) Sandy Loam w/ many mica flakes	2
	C	40-60	Brown (7.5YR 4/4) Sandy Loam w/ many mica flakes	2
Auger 2	Ap	0-6	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bt	6-24	Strong Brown (7.5YR 4/6) Sandy Clay Loam w/ many mica flakes	2
	BC	24-36	Strong Brown (7.5YR 4/6) Sandy Loam w/ many mica flakes	2
	C1	36-50	Strong Brown (7.5YR 5/6) Sandy Loam w/ many mica flakes	2
	C2	50-60	Brown (10YR 4/3) Sandy Loam w/ many mica flakes	2
Auger 3	Ap	0-4	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	Bt	4-15	Strong Brown (7.5YR 4/6) Loam w/ many mica flakes	2
	C1	15-30	Strong Brown (7.5YR 4/6) Sandy Loam w/ many mica flakes	2
	C2	30-54	Brown (7.5YR 4/4) Sandy Loam w/ many mica flakes	2
	AR	54	Grinding	-

DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS**Subdivision:** Ingram - Floyd Hwy N Subdivision of TM#: 31-9D**Lot:** 3 (3.1196 acres on Floyd Hwy N)

Main DF		Reserve DF	
Type of system	Gravity	Reserve Area Required	No
EPR	35	Type of Reserve	N/A
Slope %	14	EPR	N/A
# Bedrooms	3	Slope %	N/A
Gallons/Day	450	Gallons/Day	N/A
Width of Trench (ft.)	3	Width of Trench (ft.)	N/A
Total Square Ft. of Trench Bottom Required per BR	286	Total Square Ft. of Trench Bottom Required	N/A
Total Square Ft. of Trench Bottom per BR in Design	300	Total Square Ft. of Trench Bottom in Design	N/A
Total Square Ft. of Trench Bottom Required	858	# Lines of Reserve	N/A
Total Square Ft. of Trench Bottom in Design	900	Line Length (ft.)	N/A
# Lines Installed	3	Installed <24" from bottom of boring, rock or other Impervious Strata	N/A
Length of Line Installed (ft.)	100	Centers (ft.)	N/A
Installed <24" from bottom of boring, rock or other Impervious Strata	Yes	Width Required (ft.)	N/A
Centers (ft.)	10	Width in Design (ft.)	N/A
Width Required (ft.)	23	Installation Depth (inches into natural soil)	N/A
Installation Depth (inches into natural soil)	36	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

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1" = 80'



X = Proposed 3B Well Site

 = Proposed 3BR House Site

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General Information

Date: 8/31/2026
Applicant: Russell T. Ingram Estate
Address: 102 S Locust St, Floyd, VA 24091
Directions to the Property: US-221 N, +/- 8.3 miles to property on left located just BEFORE 4379 Floyd Hwy N
Subdivision: Ingram - Floyd Hwy N Subdivision of TM#: 31-9D
Tax Map ID: 31-9D (2.0233 acre portion)

Floyd County Health Department
Phone #: (540) 230-7162
Levi Cox - Agent
Lot: 4

Soil Information Summary

1. Position in landscape satisfactory Yes ☒ No ☐ Describe: Sideslope
2. Slope 12 %
3. Depth to rock/impervious strata\ auger refusal (AR)/bottom of boring: Max. >60" Min. >60" None
4. Depth to seasonal water table (gray mottling or gray color) No ☒ Yes ☐
5. Free water present No ☒ Yes ☐ range in inches
6. Soil percolation rate estimated Yes ☒ No ☐ Texture group 2
Estimated rate 35 Min/inch
7. Percolation test performed Yes ☐ No ☒ Number of percolation test holes
Depth of percolation test holes
Average percolation rate

Name and title of evaluator: Olivia Simpson AOSE

Signature: 

- X** Site Approved: Absorption trenches dispersing septic tank effluent to be placed at 42" depth at site designated. Site provides a total of 900 square feet of absorption area for the drainfield. At time of evaluation this site does not require a reserve.

Site Disapproved:

Reason for rejection: (check all that apply)

- 1 ☐ Position in landscape subject to flooding or periodic saturation.
- 2 ☐ Insufficient depth of suitable soil over hard rock.
- 3 ☐ Insufficient depth of suitable soil to seasonal water table.
- 4 ☐ Rates of absorption too slow.
- 5 ☐ Insufficient area of acceptable soil for required drainfield, and/or reserve area
- 6 ☐ Proposed system too close to well
- 7 ☐ Other (Specify)

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 8/20/2026

Floyd County Health Department

x See application sketch

See construction permit

Subdivision: Ingram - Floyd Hwy N Subdivision of TM#: 31-9D**Lot:** 4 (2.0233 acres on Floyd Hwy N)

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	Ap	0-6	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	BA	6-16	Brown (7.5YR 4/4) Loam w/ many mica flakes	2
	Bt	16-28	Strong Brown (7.5YR 4/6) Clay Loam w/ many mica flakes	3
	BC	28-40	Brown (7.5YR 4/4) Sandy Loam w/ many mica flakes	2
	C	40-60	Brown (7.5YR 4/4) Sandy Loam w/ many mica flakes	2
Auger 2	Ap	0-6	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	BA	6-12	Brown (7.5YR 4/4) Loam w/ many mica flakes	2
	Bt	12-28	Strong Brown (7.5YR 4/6) Clay Loam w/ many mica flakes	3
	BC	28-40	Brown (7.5YR 4/4) Loam w/ many mica flakes	2
	C	40-60	Brown (7.5YR 4/4) Sandy Loam w/ many mica flakes	2
Auger 3	Ap	0-6	Dark Yellowish Brown (10YR 3/4) Loam w/ many mica flakes	2
	BA	6-16	Brown (7.5YR 4/4) Loam w/ many mica flakes	2
	Bt	16-30	Strong Brown (7.5YR 4/6) Clay Loam w/ many mica flakes	3
	C1	30-50	Strong Brown (7.5YR 4/6) Sandy Loam w/ many mica flakes	2
	C2	50-60	Brown (7.5YR 5/3) Sandy Loam w/ many mica flakes	2

DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS**Subdivision:** Ingram - Floyd Hwy N Subdivision of TM#: 31-9D**Lot:** 4 (2.0233 acres on Floyd Hwy N)

Main DF		Reserve DF	
Type of system	Gravity	Reserve Area Required	No
EPR	35	Type of Reserve	N/A
Slope %	12	EPR	N/A
# Bedrooms	3	Slope %	N/A
Gallons/Day	450	Gallons/Day	N/A
Width of Trench (ft.)	3	Width of Trench (ft.)	N/A
Total Square Ft. of Trench Bottom Required per BR	286	Total Square Ft. of Trench Bottom Required	N/A
Total Square Ft. of Trench Bottom per BR in Design	300	Total Square Ft. of Trench Bottom in Design	N/A
Total Square Ft. of Trench Bottom Required	858	# Lines of Reserve	N/A
Total Square Ft. of Trench Bottom in Design	900	Line Length (ft.)	N/A
# Lines Installed	4	Installed <24" from bottom of boring, rock or other Impervious Strata	N/A
Length of Line Installed (ft.)	75	Centers (ft.)	N/A
Installed <24" from bottom of boring, rock or other Impervious Strata	Yes	Width Required (ft.)	N/A
Centers (ft.)	10	Width in Design (ft.)	N/A
Width Required (ft.)	33	Installation Depth (inches into natural soil)	N/A
Installation Depth (inches into natural soil)	42	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

****This evaluation is for preliminary planning purposes only.****A permit to construct is required prior to installing septic and well.****-PERMISSION FROM APCO TO INSTALL DRAINFIELD WITHIN AN OVERHEAD UTILITY LINE RIGHT OF WAY WILL BE REQUIRED PRIOR TO APPLYING FOR A PERMIT.**

