Form 2



**OSE/PE Report For:** Site #3

☐ Construction Permit ☐ Repair Permit ☐ Voluntary Upgrade Permit ☐ Certification Letter ■ Subdivision Approval

**Property Location:**

911 Address: Enon School Road City: Marshall

Lot 6 Section _____ Subdivision Property of Paper St. Soap Company

GPIN or Tax Map # 6956-46-7547 Health Dept ID # _____

Latitude _____ Longitude _____

**Applicant or Client Mailing Address:**

Name: Paper Street Soap Company LLC

Street: 31 Garrett St.

City: Warrenton State VA Zip Code 20186

**Prepared by:**

OSE Name George E. Walker Jr. License # 1940001020

Address P.O. Box 1064

City Warrenton State VA Zip Code 20188

PE Name _____ License # _____

Address _____

City _____ State _____ Zip Code _____

Date of Report 12-14-20 Date of Revision #1 _____

OSE/PE Job # _____ Date of Revision #2 _____

**Contents/Index of this report (e.g., Site Evaluation Summary, Soil Profile Descriptions, Site Sketch, Abbreviated Design, etc.)**

COVER SHEET - P6.1

OVERALL PLAN - P6.2

SITE AND SOIL EVAL. - P6.3-5

SITE SKETCH - P6.6

ABBREV. DESIGNS - P6.7-8

**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 for both conventional and alternative onsite sewage systems has been discussed with the owner/applicant.

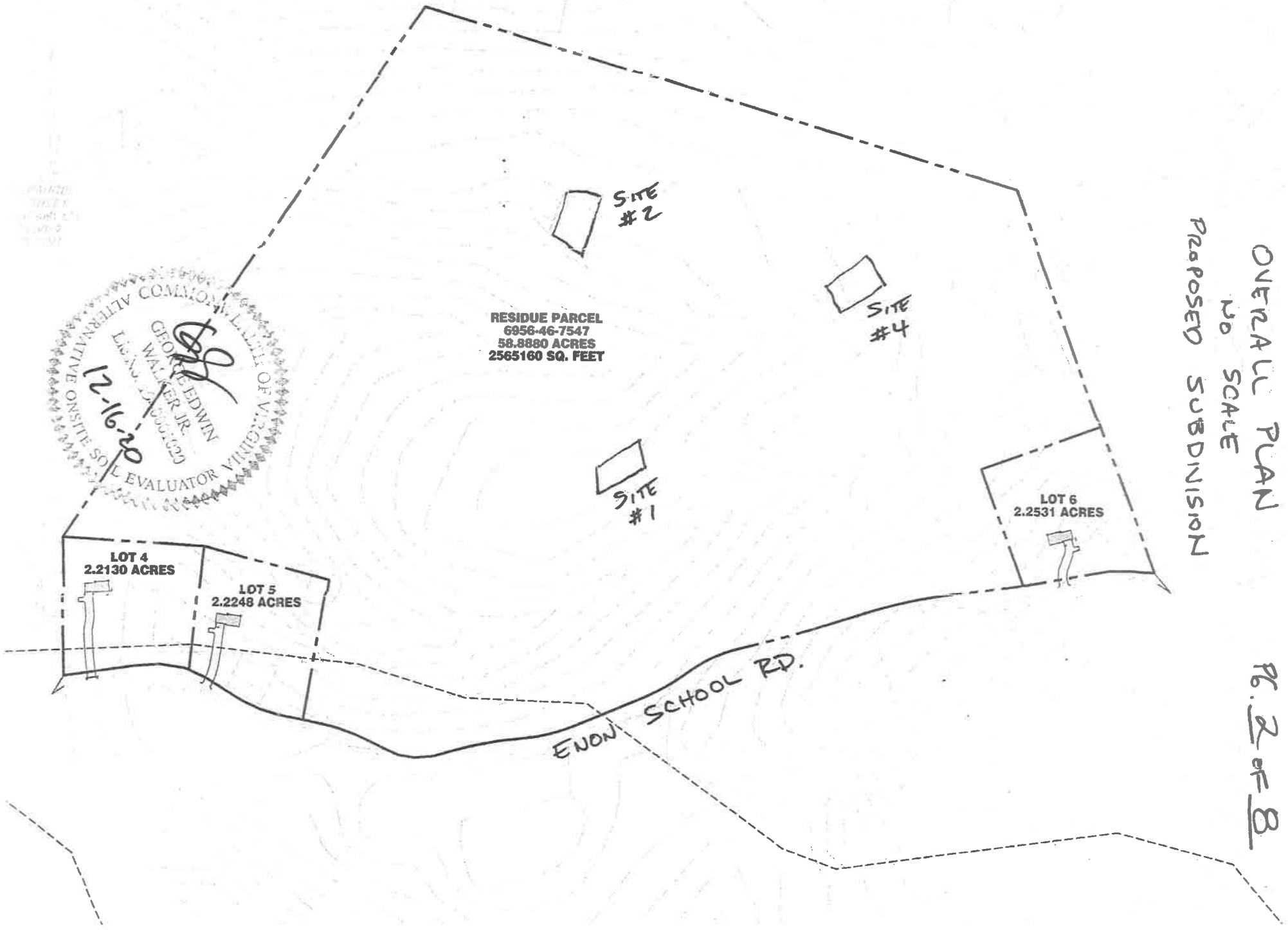
☑ The work attached to this cover page has been conducted under an exemption to the practice of engineering, specifically the exemption in Code of Virginia Section 54.1-402.A.11

I recommend that a (select one): ☐ construction permit ☐ certification letter ☐ subdivision approval ■ be (select one) Issued ■

☐ repair permit ☐ voluntary upgrade ☐ Denied ☐

COMMONWEALTH OF VIRGINIA GEORGE EDWIN WALKER JR. Lic No. 1940001020 PROFESSIONAL ENGINEER

OSE/PE Signature _____ Date 12-16-20




OVERALL PLAN
NO SCALE
PROPOSED SUBDIVISION

PG. 2 OF 8

# Site and Soil Evaluation Report

VDH Use Only
HDIN: _____

## General Information

Date: 12-14-20 FAUQUIER County Health Department

Owner: Paper Street Soap Co. LLC Phone: (540) 270-4819

Owner Address: 31 Garrett Street Warrenton, VA 20186

Property Address: Enon School Road

Tax Map/GPIN #: 6956-46-7547

Subdivision: Prop. of Paper St. Soap Company Section: _____ Block: _____ Lot: 6

## Soil Information Summary

1. Position in landscape satisfactory: ☒ Yes ☐ No Describe landscape position: Convex sideslope
2. Slope 10-12 % wooded site
3. Depth to rock/impervious strata: Max. ____ in. Min. 28 in. ☐ Not observed
4. Free Water Present: ☐ Yes ☒ No Range in inches: _____
5. Depth to seasonal water table (gray mottling or gray color): 10 inches ☐ Not observed
6. Soil percolation rate estimated: ☒ Yes ☐ No Estimated rate: 50 min/in at 10 inches depth
   Texture Group: ☐ I ☒ II ☒ III ☐ IV
7. Percolation test performed: ☐ Yes ☒ No If yes, provide additional data on percolation test results.

Name and title of evaluator: George E. Walker Jr. OSE

Signature: [signature]

☒ Site approved: DRIP DISPERSAL (describe dispersal area, e.g. absorption trenches) dispersing TL-3 EFF. (proposed level of treatment at time of evaluation) to be placed at 10 (inches) depth at site designated on permit. Site provides a total of 1875 square feet of absorption area for primary and 3823 FT2 reserve (if applicable).

☐ Site disapproved: Reasons 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 absorption area, and/or reserve area.
6. ☐ Proposed system too close to well.
7. ☐ Other (specify)

COMMONWEALTH OF VIRGINIA
GEORGE EDWIN WALKER JR.
No. 1940001020
ALTERNATIVE ONSITE SOIL EVALUATOR
12-16-20

This form contains personal information subject to disclosure under the Freedom of Information Act. Revised 12 1 2014

PROPOSED LOT 6

SITE #3 Page 4 of 8

Date of Evaluation: 3-18-20 Profile Description
8-21-20 **SOIL EVALUATION REPORT**

Property ID: 6956-46-7547

Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private Onsite Soil Evaluator or Professional Engineer, location of profile holes and sketch of the area investigated including all structural features (i.e. sewage disposal systems, wells, etc.) within 100 feet of the site and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

☐ See application sketch ☐ See Construction Permit ☒ See sketch on reverse side or page attached to this form.

| Hole # | Horizon | Depth (Inches) | Description of color, texture, etc. | Texture Group |
|---|---|---|---|---|
| 1 | A | 0-5 | BROWN (7.5YR 5/4) SILT LOAM WITH ORGANICS, SOME GRAVEL, FRIABLE | III |
| | Bt | 5-31 | YELLOWISH-RED (5YR 5/8) AND REDDISH-YELLOW (7.5YR 7/6) SILT LOAM | III |
| | $C_r$ | 31-36 | YELLOWISH-BROWN (10YR 5/6) AND STRONG BROWN (7.5YR 5/6) LOAM/ SANDY LOAM, WEATHERED ROCK FRAGMENTS, FIRM IN PLACE | IIb |
| | | | PROFILE TERMINATED AT 36 INCHES | |
| 2 | A | 0-6 | YELLOWISH-BROWN (10YR 5/4) FINE SANDY LOAM WITH ORGANICS | IIb |
| | Bt | 6-28 | YELLOWISH-BROWN (10YR 5/4) AND STRONG BROWN (7.5YR 4/6) LOAM WITH WEATHERED COBBLES | IIb |
| | C | 28-60 | YELLOWISH-RED (5YR 6/8) AND REDDISH-YELLOW (7.5YR 7/6) LOAM/ SILT LOAM, FRIABLE | III |
| | | | PROFILE TERMINATED AT 60 INCHES | |
| 3 | A | 0-5 | STRONG BROWN (7.5YR 5/6) SILT LOAM WITH ORGANICS | III |
| | Bt | 5-31 | DARK RED (2.5YR 4/8) SILT LOAM | III |
| | C | 31-60 | DARK RED (2.5YR 4/8) AND REDDISH-YELLOW (7.5YR 7/6) SILT LOAM, FRIABLE | III |
| | | | PROFILE TERMINATED AT 60 INCHES | |

REMARKS:

COMMONWEALTH OF VIRGINIA
GEORGE EDWIN WALKER JR.
Lic No. 2704001020
ALTERNATIVE ONSITE SOIL EVALUATOR
12-16-20

This form contains personal information subject to disclosure under the Freedom of Information Act. Revised 1/2017

PROPOSED LOT 6

(SITE #3) Page 5 of 8

Date of Evaluation: 3-18-20 Profile Description
8-21-20 **SOIL EVALUATION REPORT**

Property ID: 6956-46-7547

Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private Onsite Soil Evaluator or Professional Engineer, location of profile holes and sketch of the area investigated including all structural features (i.e. sewage disposal systems, wells, etc.) within 100 feet of the site and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

☐ See application sketch ☐ See Construction Permit ☒ See sketch on reverse side or page attached to this form.

| Hole # | Horizon | Depth (Inches) | Description of color, texture, etc. | Texture Group |
|---|---|---|---|---|
| 4 | A | 0-6 | STRONG BROWN (7.5YR 5/6) SILT LOAM WITH ORGANICS, FRIABLE | III |
| | $B_t$ | 6-20 | STRONG BROWN (7.5YR 5/8) SILT LOAM, WITH WEATHERED ROCK FRAGMENTS | III |
| | $C_1$ | 20-34 | YELLOWISH-RED (5YR 5/6) AND REDDISH-YELLOW (7.5YR 7/6) SILT LOAM WITH WEATHERED COBBLES FRIABLE | III |
| | $C_{2r}$ | 34-36 | STRONG BROWN (7.5YR 4/6) CHANNERLY LOAM, FIRM IN PLACE | IIb |
| | | | PROFILE TERMINATED AT 36 INCHES | |
| 5 | A1 | 0-3 | OLIVE BROWN (2.5Y 4/3) LOAM WITH ORGANICS, FRIABLE | IIb |
| | AB | 3-8 | YELLOWISH-BROWN (10YR 5/6) SANDY CLAY LOAM, FRIABLE | IIb |
| | Bt | 8-26 | STRONG BROWN (7.5YR 5/6) SANDY CLAY LOAM | IIb |
| | $C_1$ | 26-28 | STRONG BROWN (7.5YR 5/6) AND LIGHT BROWN (7.5YR 6/3) SANDY LOAM SAPROLITE, FRIABLE | IIIb |
| | $C_{2r}$ | 28-30 | LIGHT BROWN (7.5YR 6/3) AND VERY PALE BROWN (10YR 7/3) SANDY LOAM SAPROLITE, FIRM IN PLACE | IIb |
| | | | PROFILE TERMINATED AT 30 INCHES | |

REMARKS: _____

COMMONWEALTH OF VIRGINIA
GEORGE EDWIN WALKER JR.
Lic No. 0602001920
ALTERNATIVE ONSITE SOIL EVALUATOR
12/16/20

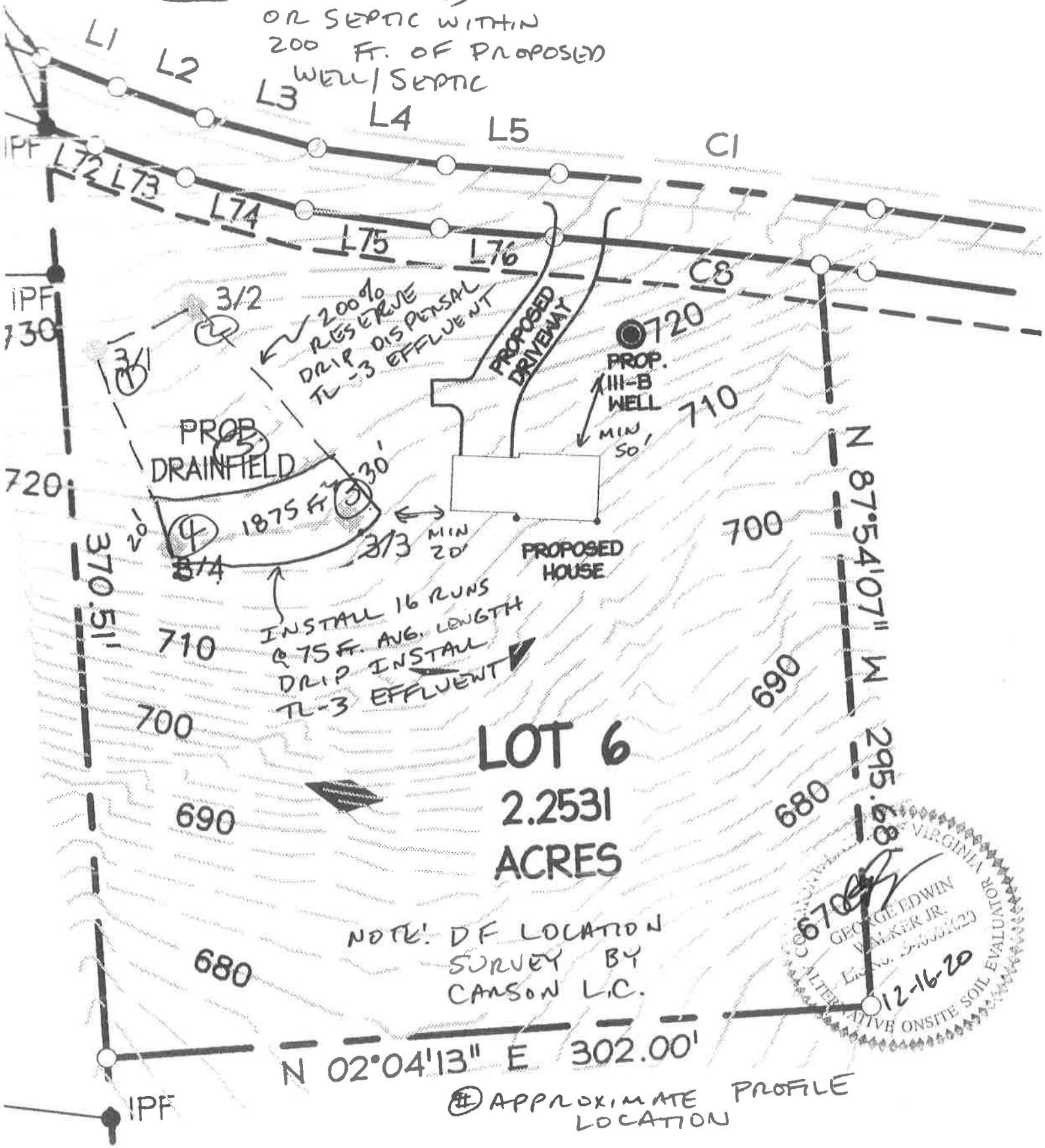
This form contains personal information subject to disclosure under the Freedom of Information Act. Revised 12/1/2016

# SITE SKETCH
1" ≃ 50'

PROPOSED LOT 6

GPIN # 6956-46-7547

NOTE: NO EX. WELLS OR SEPTIC WITHIN 200 FT. OF PROPOSED WELL/SEPTIC



(INSTALL)
PROPOSED LOT 6
(SITE #3)



# Abbreviated Design Form

This form is for use with gravity, pump to gravity, enhanced flow, and low pressure distribution (LPD) sewage system designs and when applying for a certification letter or subdivision approval.

This abbreviated design covers the ☐ primary and reserve area. ☒ only the primary area. ☐ only the reserve area (check one) for 6956-46-7547 (property ID).

**Design Basis**

Total length of available area: 70-80 FT. Total width of available area: 20-30 FT

Estimated Perc. Rate 50 MPI at 10 in. (depth) Number of bedrooms (or GPD): 4 (600)

Conveyance Method[1]: PUMP Distribution method[2] (specify): DRIP DISPERSAL

Dispersal system basis[3] AOSS REGS. LGMI required? NO (Yes/No)

Effluent quality required: TL-3 (Primary, Secondary, Advanced Secondary)

Square feet per bedroom: $\frac{150\ GPD}{.33\ GPD/FT^2} = 455$ Total trench bottom area required: 1820 FT² FOOTPRINT AREA

910 M.I.N. L.F. TUBING REQ'D

[1] Gravity, pump, siphon
[2] Enhanced flow, LPD, or Drip Dispersal
[3] Table 5.4 of SHDR or identify the GMP used

**Area Calculations**

Number of trenches 16 RUNS (Note if a pad is used) Length of pad or trenches: AVG. 75 FT.

Width of pad or trenches: 1-2' Center to center spacing: 1.25-1.875 FT.

Reserve required? YES Percent reserve area required: 200% (15-22.5')

Total width of absorption area required 20-30 FT. Total trench bottom area provided: 1875 FT²

1200 L.F. TUBING PROVIDED

The required width is calculated by multiplying the center-to-center spacing by one less than the number of trenches and adding 1 trench width plus any required reserve area. If the topography is not uniform across the length of the site the trenches will need to flare apart on one end to maintain contour. When this occurs it is necessary to use a center-to-center spacing that accounts for the flair or the installer will not be able to fit the system within the approved area. It is perfectly acceptable to have more area available, especially up and down the slope, than is required.

COMMONWEALTH OF VIRGINIA
GEORGE EDWIN WALKER JR.
Lic No. 1940001020
ALTERNATIVE ONSITE SOIL EVALUATOR
12-16-20

(RESERVE)
PROPOSED LOT 6
(SITE #3)



# Abbreviated Design Form

This form is for use with gravity, pump to gravity, enhanced flow, and low pressure distribution (LPD) sewage system designs and when applying for a certification letter or subdivision approval.

This abbreviated design covers the ☐ primary and reserve area, ☐ only the primary area, ☒ only the reserve area (check one) for 6956-46-7547 (property ID).

**Design Basis**

Total length of available area: 40-70 Ft. Total width of available area: 64-76 Ft

Estimated Perc. Rate 50 MPI at 10 in. (depth) Number of bedrooms (or GPD): 4 (600)

Conveyance Method[1]: PUMP Distribution method[2] (specify): DRIP DISPERSAL

Dispersal system basis[3]: AOSS REGS. LGMI required? NO (Yes/No)

Effluent quality required: TL-3 (Primary, Secondary, Advanced Secondary)

Square feet per bedroom: $\frac{150 \text{ GPD}}{.33 \text{ GPD/Ft}^2} = 455$ Total trench bottom area required: 1820 Ft²

X 2 (FOR 200% RESERVE)
= 3640 Ft²
FOOTPRINT AREA
1820 L.F. TUBING REQ'D

[1] Gravity, pump, siphon
[2] Enhanced flow, LPD, or Drip Dispersal
[3] Table 5.4 of SHDR or identify the GMP used

**Area Calculations**

Number of trenches 36 (Note if a pad is used) Length of pad or trenches: AVG = 55 Ft

Width of pad or trenches: 1-2" Center to center spacing: 1.75 - 2.1 Ft.

Reserve required? YES Percent reserve area required: 200%

Total width of absorption area required 63-76 Ft Total trench bottom area provided: 3823 Ft²

$\frac{40+70}{2} \times \frac{63+76}{2}$ = FOOTPRINT AREA

The required width is calculated by multiplying the center-to-center spacing by one less than the number of trenches and adding 1 trench width plus any required reserve area. If the topography is not uniform across the length of the site the trenches will need to flare apart on one end to maintain contour. When this occurs it is necessary to use a center-to-center spacing that accounts for the flair or the installer will not be able to fit the system within the approved area. It is perfectly acceptable to have more area available, especially up and down the slope, than is required.

1980 L.F. TUBING PROVIDED
200% RESERVE PROVIDED

COMMONWEALTH OF VIRGINIA
GEORGE EDWIN WALKER JR
Lic No. 1940001020
ALTERNATIVE ONSITE SOIL EVALUATOR
12.16.20