BIG LICK
SOILS, INC.
(540)798-3839

AOSE/PE Report for

Subdivision Approval [1]

Location of property:	Lot	Section	Subdivision	County
	8			BOTETOURT
	GPIN or Tax Map #	11.4 acre portion of TM #104-22		
	Latitude/Longitude			

Applicant or Client and address:	Prepared by AOSE/PE (name and address):
Blue Ridge Stone Corporation P.O. Box 13527 Roanoke, VA 24035	Jay E. Carter, AOSE 170 Hufton Brook Lane Blue Ridge, VA 24064

Date of Report:	19-Aug-17	AOSE/PE Job Number:	170819
Revision Date:		Health Dept. ID No.:	

Contents / Index of This Report: [2]

- [x] Soil Information Summary
- [x] Soil Profile Descriptions
- [ ] Water Supply Design Specifications
- [x] Primary / Reserve Design Specifications
- [ ] Construction Drawings
- [x] Site Sketch
- [ ] Product Specification Sheet
- [x] Other

Plat prepared by Saunders' Surveys, Inc.

Certification Statement [3]

I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-615), and other applicable policies of the Virginia Department of Health. Furthermore, I certify that my evaluation and/or design contained herein complies with all applicable laws, regulations, and policies implemented by the Virginia Department of Health.

I recommend a Subdivision Approval [4] be Approved. [5]

ASOE/PE Stamp(s)

COMMONWEALTH OF VIRGINIA
JAY E. CARTER
Lic. No. 1940001224
8-22-17
ALTERNATIVE ONSITE SOIL EVALUATOR

1 Insert appropriate title: "Construction Permit", "Subdivision Approval", "Certification Letter"
2 Examples include: "Soil Information Summary"', "Soil Profile Descriptions"', "Water Supply Design Specifications", "Primary/Reserve Design Specifications", "Construction Drawings", "Site Sketch", "Product Specification Sheet"
3 PE work is regulated by the Department of Professional and Occupational Regulation. This section is considered optional for PEs.
4 Fill in this blank with the appropriate term: "certification letter" , "construction permit" , or "subdivision approval"
5 Fill in this blank with the appropriate term: "approved", or "'denied"

Soil Summary Report

GENERAL INFORMATION

Date August 19, 2017 Submitted To Botetourt County Health Department

Applicant Blue Ridge Stone Corporation Telephone No.

Address P.O. Box 13527 Roanoke, VA 24025

Owner Address

Location Healing Springs Rd

Tax Map 11.4 ac portion of #104-22 Subdivision

Block/Section Lot 8

SOIL INFORMATION SUMMARY

1) Position in landscape satisfactory ☐ No ☑ Yes
   Describe side slope

2) Slope 38%

3) Depth to rock or impervious strata: Max. Min. 43"+ None

4) Depth to seasonal water table (gray mottling or gray color) ☑ No ☐ Yes Inches

5) Free water present ☑ No ☐ Yes Range in inches

6) Soil percolation rate estimated ☐ No ☑ Yes Texture Group III
   Estimated Rate 70 min/inch

7) Permeability test performed ☑ No ☐ Yes
   If Yes, note type of test performed and attach

☑ Site Approved: Drainfield to be placed at 24" depth at site designated on permit.

☐ Site Disapproved:

Reasons for rejection:

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 Reverse Area.
6) ☐ Proposed system too close to well.
7) ☐ Other Specify

(Attach additional pages if necessary)

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SOIL PROFILE DESCRIPTION REPORT

BLUE RIDGE STONE CORP; TAX PARCEL 104-22; LOT 8

Date of Evaluation 28-Jun-17

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 soil scientist, 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 site (See Section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached on this form.

☐ See application sketch Page _____ ☐ See construction permit ☑ See sketch on reverse side or attached to this form

HOLE #	HORIZON	DEPTH (Inches)	DESCRIPTION of Color, Texture, etc.	TEXTURE GROUP
1	Ae	0-5	Dark Yellowish Brown (10YR 4/4) gravelly Loam.	II
	Bt	5-26	Strong Brown (7.5YR 5/8) Clay Loam. Moderate medium subangular blocky.	III
	BC	26-44	Yellowish Red (5YR 5/8) with few Yellow (10YR 7/6) parent mottles and weathered fragments. Clay Loam. Moderate to weak medium subangular blocky structure. Few fine mica becoming more common with depth. Termination on rock.	III
2	Ae	0-3	Dark Yellowish Brown (10YR 4/4) gravelly Loam.	II
	Bt	3-28	Yellowish Red (5YR 5/8) Clay Loam. Moderate medium subangular blocky. Few fine mica.	III
	BC	28-47	Yellowish Red (5YR 5/8) with few Yellow (10YR 7/6) and White (10YR 8/1) parent mottles and weathered fragments. Clay Loam. Moderate medium subangular blocky. Common fine mica. Termination on rock.	III
3	Ae	0-6	Dark Yellowish Brown (10YR 4/4) gravelly Loam.	II
	Bt	6-30	Yellowish Red (5YR 5/8) Clay Loam. Moderate medium subangular blocky. Few fine mica.	III
	BC	30-43	Yellowish Red (5YR 5/8) with few Yellow (10YR 7/6) and White (10YR 8/1) parent mottles and weathered fragments. Clay Loam. Moderate medium subangular blocky. Common fine mica. Termination on rock.	III

Remarks: Sanitary survey performed and no adverse impacts apparent.

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6-22-17

Abbreviated Design Form

BLUE RIDGE STONE CORP; TAX PARCEL 104-22; LOT 8

For use with gravity and pump drainfields, enhanced flow systems and low pressure distribution systems when applying for a certification letter or subdivision approval.

Design Basis

A)	Estimated Percolation Rate	70 mpi	
B)	Trench bottom square feet required per bedroom (From AOSS Regs; TL2 ☑ Gravity ☐ LPD)	273	150/0.6875
C)	Number of Bedrooms	3	

Area Calculations

D)	Length of trench	70' (Res 70)	Length of available area	75'+
E)	Width of trench	3'		
F)	Number of trenches	4 (Res 2)		
G)	Center-to-center spacing	12'		
H)	Width required	63' G (F-1) + E	Width of available area	96'
I)	Total square footage required	819 (Res 410) (line B times line C)		
J)	Square footage in design	840 (Res 420) (D * E * F)		
K)	Is a reserve area required?	☐ No ☑ Yes		

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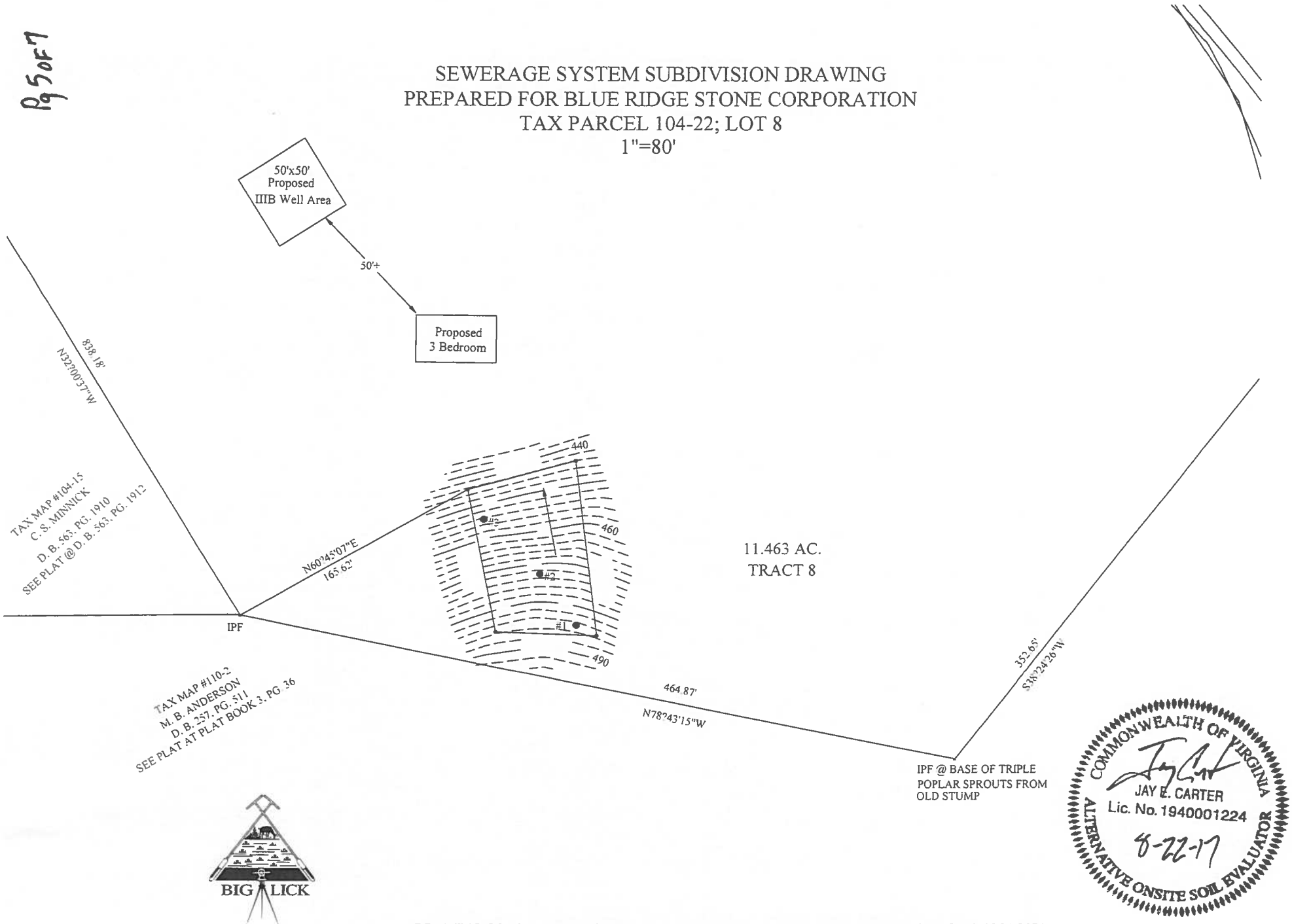
SEWERAGE SYSTEM SUBDIVISION DRAWING
PREPARED FOR BLUE RIDGE STONE CORPORATION
TAX PARCEL 104-22; LOT 8
1"=80'



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ALTERNATIVE ONSITE SOIL EVALUATOR

BIG LICK
SOILS, INC.
(540)798-3839

DRAWING GENERATED FROM SURVEY PREPARED BY SAUNDERS' SURVEYS, INC (434)277-8574

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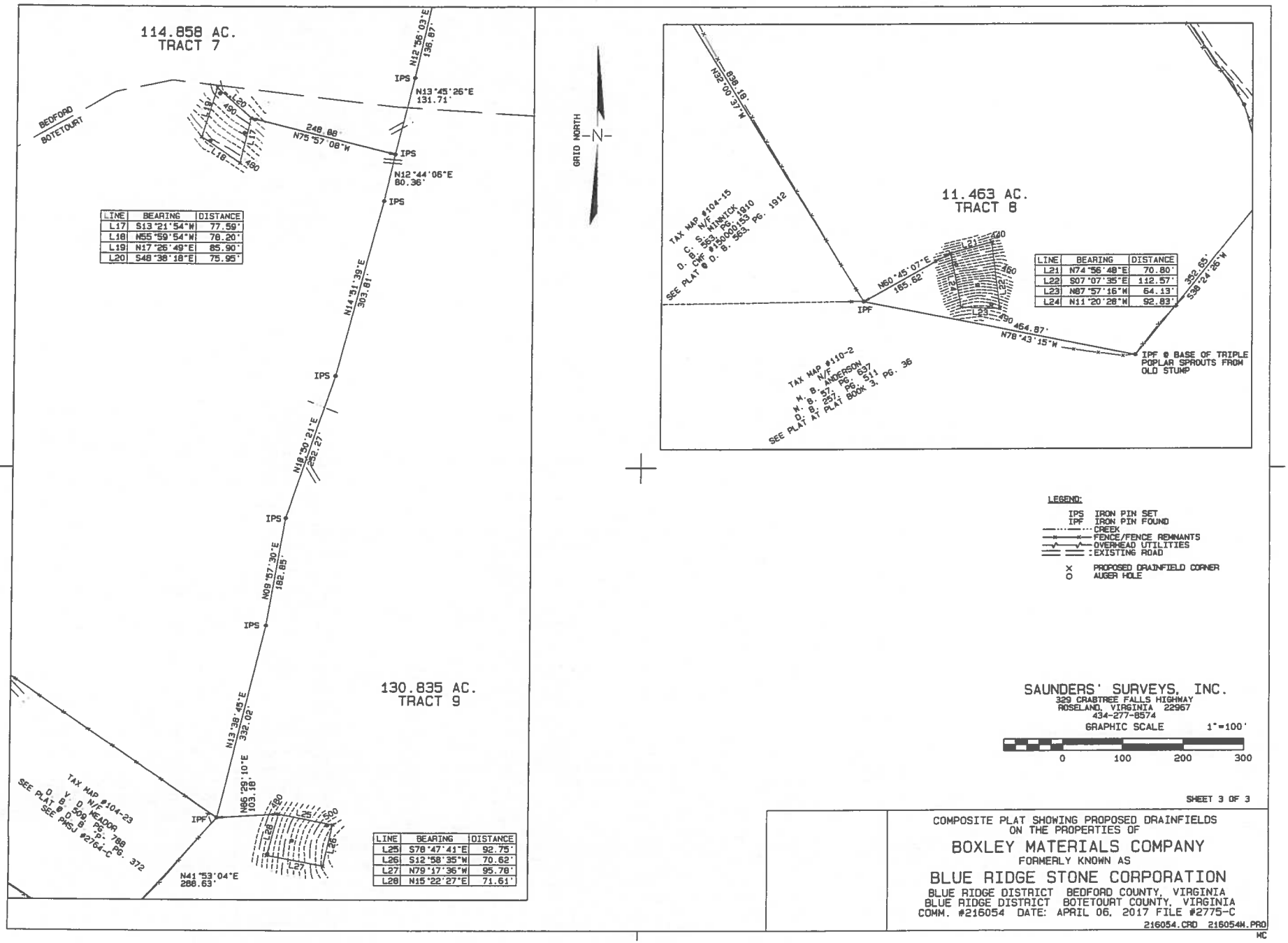

LINE	BEARING	DISTANCE
L17	S13°21'54"W	77.59'
L18	N55°59'54"W	78.20'
L19	N17°26'49"E	85.90'
L20	S48°38'18"E	75.95'

LINE	BEARING	DISTANCE
L21	N74°56'48"E	70.80'
L22	S07°07'35"E	112.57'
L23	N87°57'16"W	64.13'
L24	N11°20'26"W	92.83'

LINE	BEARING	DISTANCE
L25	S78°47'41"E	92.75'
L26	S12°58'35"W	70.62'
L27	N79°17'36"W	95.78'
L28	N15°22'27"E	71.61'

LEGEND:

IPS IRON PIN SET
IPF IRON PIN FOUND
CREEK
FENCE/FENCE REMNANTS
OVERHEAD UTILITIES
EXISTING ROAD
PROPOSED DRAINFIELD CORNER
AUGER HOLE

SAUNDERS' SURVEYS, INC.
329 CRABTREE FALLS HIGHWAY
ROSELAND, VIRGINIA 22967
434-277-8574

GRAPHIC SCALE 1"=100'

0 100 200 300

SHEET 3 OF 3

COMPOSITE PLAT SHOWING PROPOSED DRAINFIELDS
ON THE PROPERTIES OF

BOXLEY MATERIALS COMPANY

FORMERLY KNOWN AS

BLUE RIDGE STONE CORPORATION

BLUE RIDGE DISTRICT BEDFORD COUNTY, VIRGINIA
BLUE RIDGE DISTRICT BOTETOURT COUNTY, VIRGINIA
COMM. #216054 DATE: APRIL 06, 2017 FILE #2775-C

216054.CRD 216054M.PRO

MC

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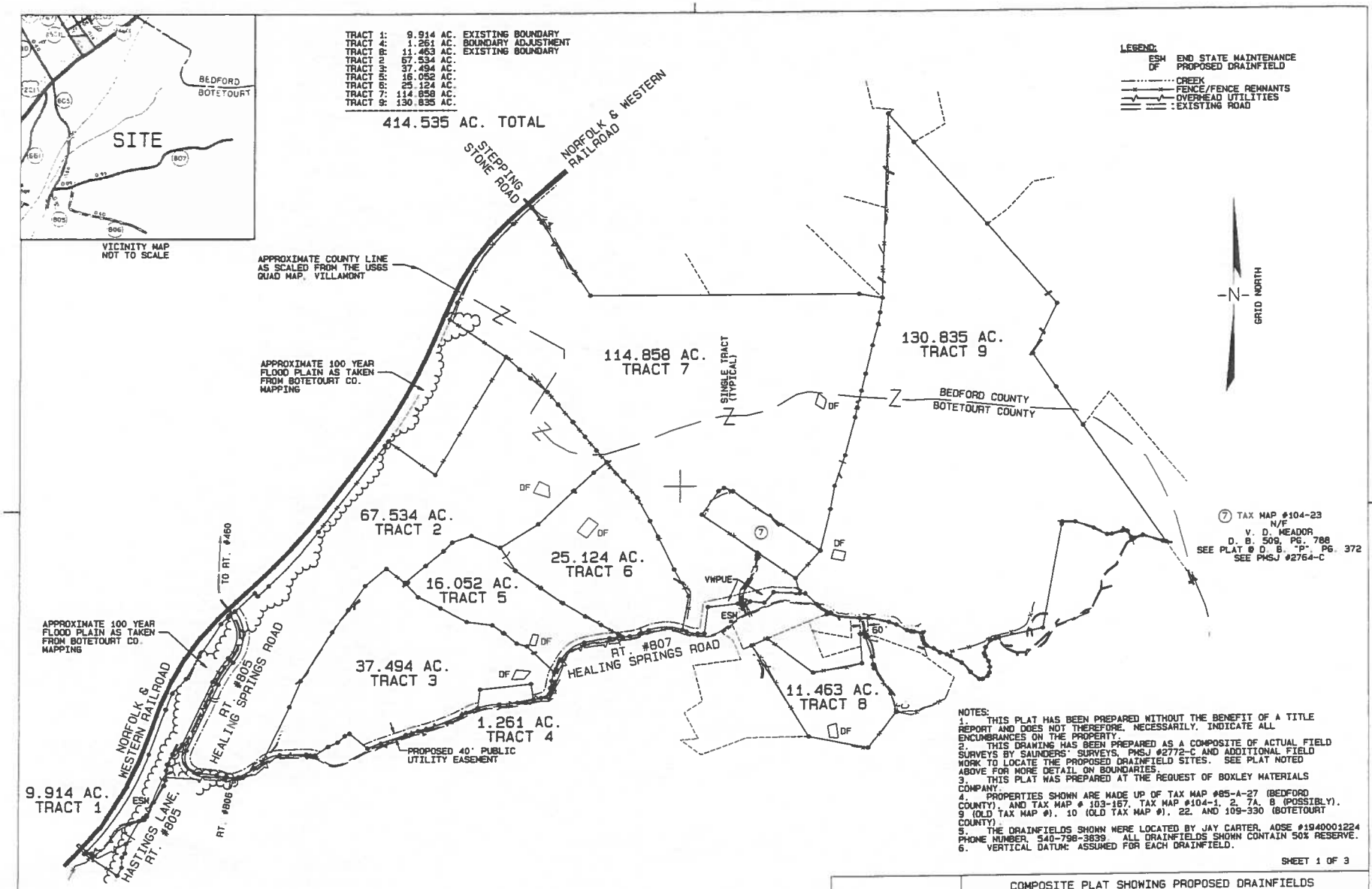

NOTES:
1. THIS PLAT HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT THEREFORE, NECESSARILY, INDICATE ALL ENCUMBRANCES ON THE PROPERTY.
2. THIS DRAWING HAS BEEN PREPARED AS A COMPOSITE OF ACTUAL FIELD SURVEYS BY SAUNDERS' SURVEYS, PMSJ #2772-C AND ADDITIONAL FIELD WORK TO LOCATE THE PROPOSED DRAINFIELD SITES. SEE PLAT NOTED ABOVE FOR MORE DETAIL ON BOUNDARIES.
3. THIS PLAT WAS PREPARED AT THE REQUEST OF BOXLEY MATERIALS COMPANY.
4. PROPERTIES SHOWN ARE MADE UP OF TAX MAP #85-A-27 (BEDFORD COUNTY), AND TAX MAP # 103-167, TAX MAP #104-1, 2, 7A, 8 (POSSIBLY). 9 (OLD TAX MAP #), 10 (OLD TAX MAP #), 22, AND 109-330 (BOTETOURT COUNTY).
5. THE DRAINFIELDS SHOWN WERE LOCATED BY JAY CARTER, AOSE #1940001224 PHONE NUMBER, 540-798-3839. ALL DRAINFIELDS SHOWN CONTAIN 50% RESERVE.
6. VERTICAL DATUM: ASSUMED FOR EACH DRAINFIELD.

SHEET 1 OF 3

COMPOSITE PLAT SHOWING PROPOSED DRAINFIELDS
ON THE PROPERTIES OF

BOXLEY MATERIALS COMPANY

FORMERLY KNOWN AS

BLUE RIDGE STONE CORPORATION

BLUE RIDGE DISTRICT BEDFORD COUNTY, VIRGINIA
BLUE RIDGE DISTRICT BOTETOURT COUNTY, VIRGINIA
COMM. #216054 DATE: APRIL 06, 2017 FILE #2775-C

216054.CRD 216054L.PRO

MC