



Soil Horizons, Inc.
PO Box 1063
Youngsville, North Carolina 27596

Memo

DATE April 4, 2011

TO Mike Perry

FROM John R. Davis, Jr. LSS

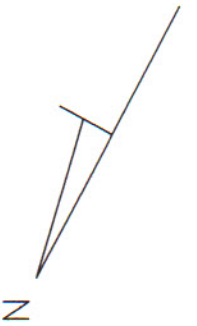
RE Revised Septic Layouts for proposed lots 5, 6 and 7 in Soil Area B of
Beaverdam Ridge Subdivision on Walters Road Property.

Mike, See the revised attached Figures 1, 2 and 3. Per my meeting with David Cumbee, I had to exclude an area of soil for lots 5 and 7. Accordingly, I had to modify the repair areas from an innovative septic system to a low pressure pipe system. The primary septic systems are the same only the repair areas have been modified due to the reduced soil area. David wants to require a swale or french drain upslope of lot 5 septic easement area due to some laterally moving water. See figure 1.

The septic area for lot 6 is good the way its drawn, but I have got to wait till the ground dries out a little before we look at the last septic easement area for lot 8. At our last site visit on March 25, 2011 we observed some water in a bore hole at 20 inches. I know that this is only temporary but David has some concerns. I am going to wait till at least 3 days after any significant rain before we look at this last lot again. Maybe we can look at it this Friday and finish up the field review.

Please review and let me know if you have any questions.

Thanks John Davis
919-818-5087mb



Area B2

Lot 6

	Color	Len.	Elev.
1 -	Dr -	200'	(99.64')
2 -	Wh -	205'	(99.1')
3 -	Dr -	200'	(98.61')
4 -	Rd -	150'	(97.76)
5 -	Bl -	60'	(98.85')

This area should suffice for a 4 bedroom house with a 0.3 gpd/sqft soil loading rate. Primary System consist of 405 ft. of Innov. trenches (1-2) flagged in field. Repair System consist of 410 ft. of Innov. trenches (3-5) flagged in field. Benchmark Elev. Top of 18" Pine Stump = 100.0'

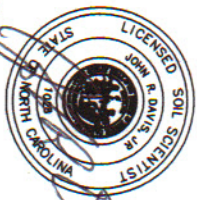
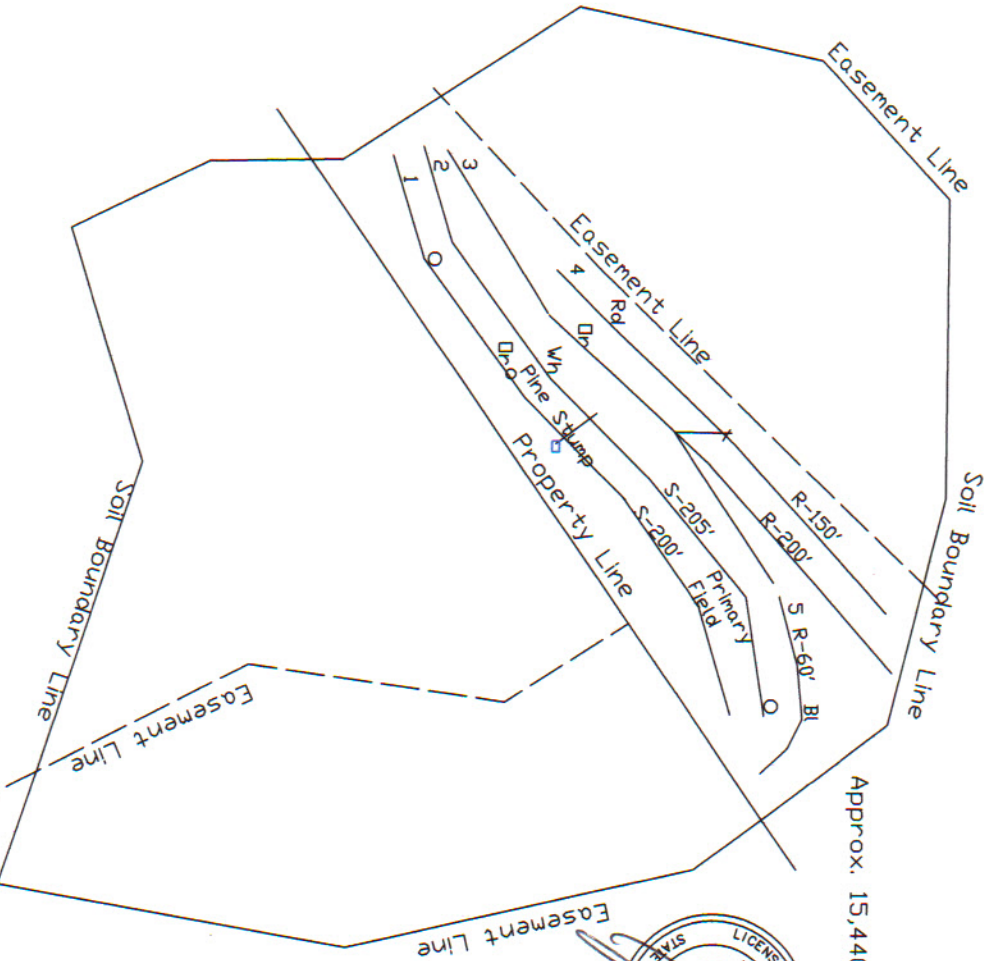


Figure 3

John R. Davis, Jr. RS LSS
April 1, 2011

Soil Borings

- > 24 inches
- < 24 inches

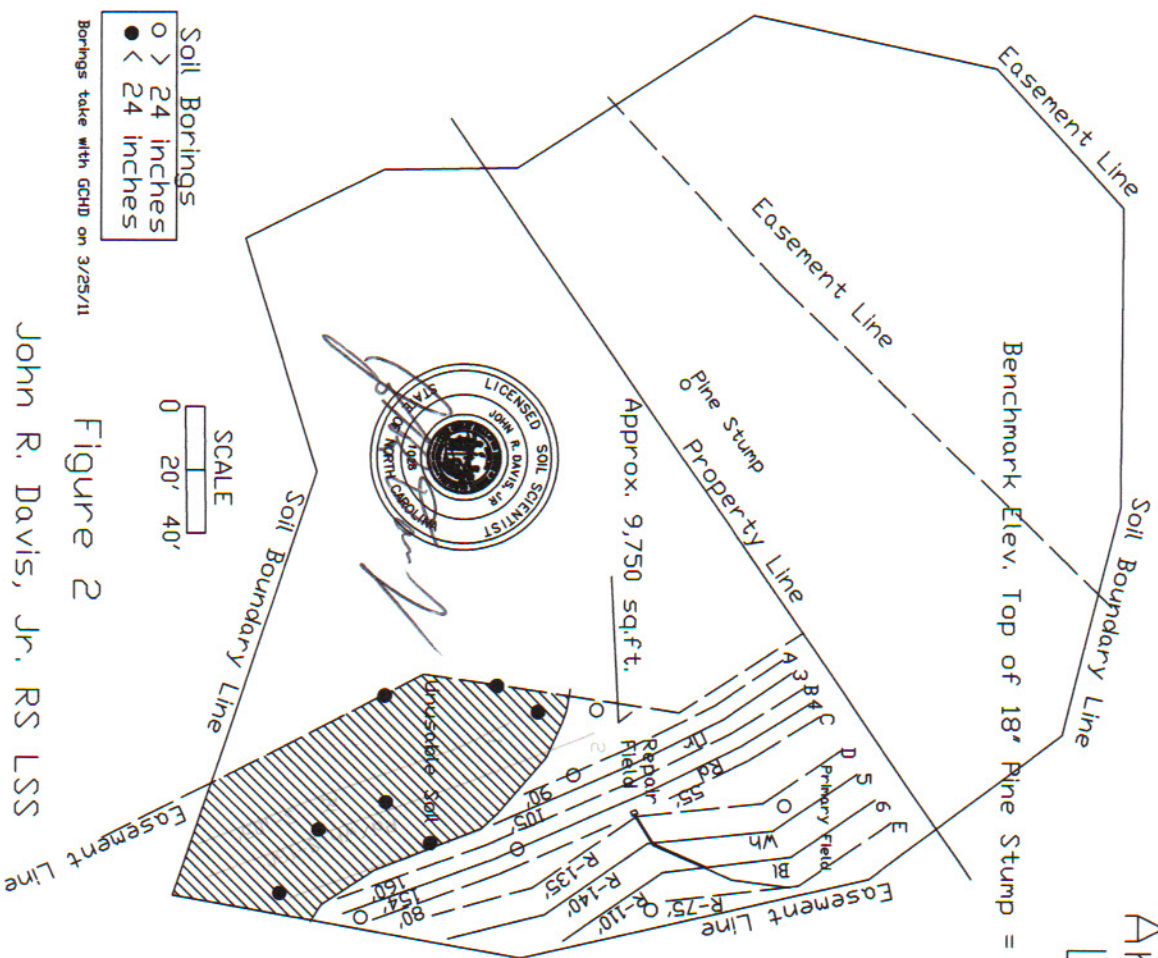
Borings take with GCHD on 3/25/11

Area B3 Lot 7

Benchmark Elev. Top of 18" Pine Stump = 100.0'

Color Len. Elev.

N

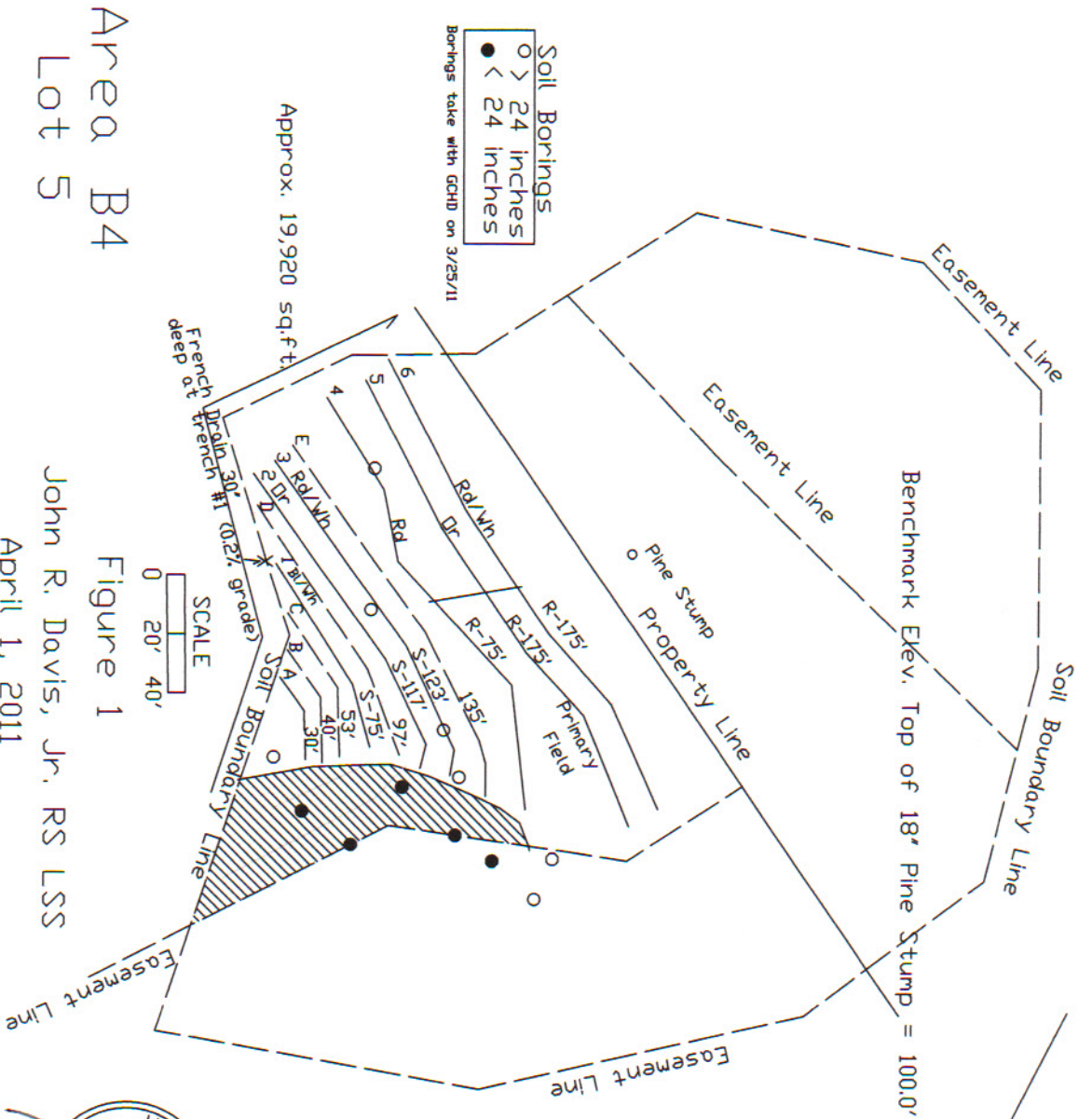


A - xx -	90' (100.95')E
3 - Dr -	105' (100.85')
B - xx -	160' (100.74')E
4 - Rd -	154' (100.62')
C - xx -	55'+80' (100.49')E
D - xx -	135' (99.3')E
5 - Wh -	140' (99.1')
6 - Bl -	110' (98.72')
E - xx -	75' (98.53')E

This area should suffice for a 4 bedroom house with a 0.3 gpd/sqft soil loading rate. Primary System consist of 460 ft. of Innov. trenches (5&6) flagged in field plus dashed lines. D & E. Center feed with flow dividers.

Repair System consist of 644 ft. of LPP trenches (3-4) flagged in field plus dashed lines. A, B and C. LPP LTAR based on 24" soil = 0.2 or 480 feet of LPP trench required.

Gravel Trenches 8" deep x 18" wide. Trench bottoms 12" below grade with 4" soil cover.



	Len.	Elev.
4 - Rd-	75'	(101.7')
5 - Dr -	175'	(101.4')
6 - Rd/wh -	175'	(101.08')
1 - BlWh -	75'	(103.72')
2 - Dr -	117'	(103.1)
3 - Rd/wh	123'	(102.47')
E -	135'	(102.1')E

This area should suffice for a 4 bedroom house with a 0.3 gpd/sqft soil loading rate. Primary System consist of 425 ft. of Innov. trenches (4-6) flagged in field.

Repair System consist of 670 ft. of LPP Field Trenches (1-3) flagged in field plus dashed lines. A, B, C, D, & E LPP LTAR based on 24' soil = 0.2 or 480 feet of LPP trench required. Gravel Trenches 8" deep x 18" wide. Trench bottoms 12" below grade with 4" soil cover.

