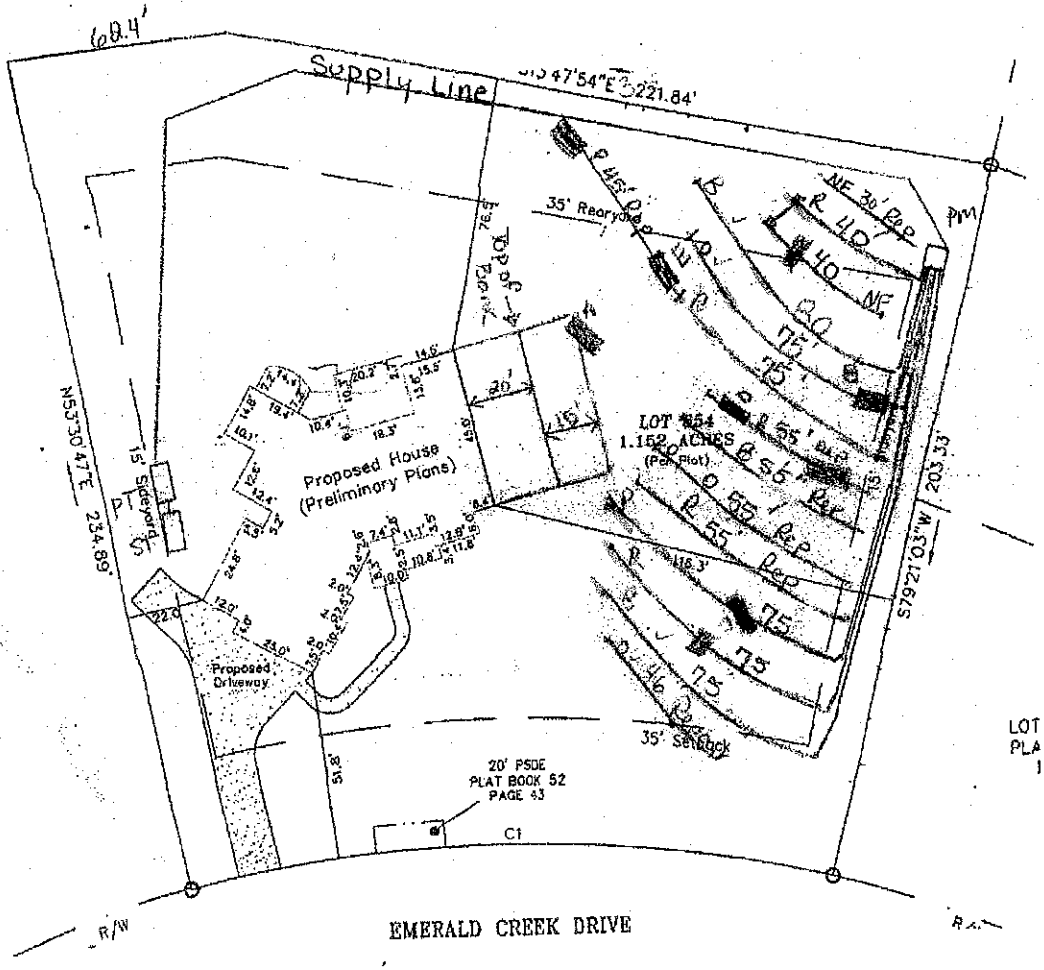

608.4'
Supply Line
S15°47'54"E 221.84'
35' Rear Yard
NE 30' Rep
R 40'
40' NF
75'
LOT 654
1.152 ACRES
(Per Plat)
Proposed House
(Preliminary Plans)
15' Sidewalk
Proposed Driveway
N53°30'47"E 234.89'
S79°21'03"W 203.33'
R 55' Rep
R 46' Rep
35' Setback
20' PSDE
PLAT BOOK 52
PAGE 43
C1
EMERALD CREEK DRIVE
R/W
LOT 655
AT BOOK 52
PAGE 43
LOT
PLA
1

1" = 50'

Falls Cove 654 Fast Track Septic Spec Sheet

Number of Bedrooms	**4**
Basement or Crawl	**Concrete Slab**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.225**
Primary System Type	**25% Reduction**
No. Lines	8 (See Table)
Total Linear Feet	535
Trench Width	3' min.
Trench Spacing	9' min.
Max Trench Depth	36"
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	335' of 2.0" SCH 40 PVC
Flow Rate through the system	38.5 gpm
Elevation head	Approx. 16.3'
Pressure head	2.0'
Friction head	10.2'
20% Contingency	5.7'
Total Head	34.2'
Pump Requirements	38.5 gpm @ 34.2' of head To be designed by installer.
Maximum Dosing Volume	240 gal -2.0 doses/day @ design flow
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	6.2
Repair System	**LP PPBPS**
Total Linear Feet	341
Repair Loading Rate	0.25

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elevation (Ft.)
1	Repair	NF	LP PPBPS	30	
2	System	Red	25% Reduction	40 endfed	0.3
3	System	NF	25% Reduction	40 endfed	
4	System	Blue	25% Reduction	80 endfed	
5	System	Orange	25% Reduction	75 endfed	
6	System	Pink	25% Reduction	75 endfed	4.1
7	Repair	Pink	LP PPBPS	45	
8	Repair	Red	LP PPBPS	55	
9	Repair	Blue	LP PPBPS	55	
10	Repair	Orange	LP PPBPS	55	
11	Repair	Red	LP PPBPS	55	
12	Repair	Pink	25% Reduction	75 endfed	
13	Repair	Red	25% Reduction	75 endfed	
14	Repair	Blue	25% Reduction	75 endfed	
15	Repair	Orange	LP PPBPS	46	8.1
				Total System: 535'	
				Total Repair: 341'	

Tank	Blue	1000 gal (2 compartment)	
Pump Tank	Blue	1000	10.6
House	orange		

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	7
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

Note: **All rod readings should be verified by installer prior to installation**
Tank Locations and distribution devices may be altered at the discretion of the ICHD
Use proper setbacks if foundation drains are used

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet:
Property ID:
Lot #:
File #:
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner:
Address:
Proposed Facility: SFR Design Flow (.1949) 480
Location of Site: FC 654

Applicant:
Date Evaluated: 9/1/15
Property Size: 1.152
Property Recorded:

Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [-] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

OK DJ

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
A	L	0-10	mo GR SL	FR ns/np	Br				clip
		10-24	WK ABK C	Fi s/p	R				
		24-45	PL C		R; C 2 chroma				
		45-72	WK SBK C	Fi s/p	R; 2 chroma in	1 Root channel			
B	L 5%	0-7	mo GR SL	FR ns/np	Br				0.25 w/ 36" TB
		7-20	PL C						
		20-36	WK SBK C	FR ss/sp	R; C sap				
		36-66	WK SBK CL	↓	R; M sap				
		66-73	MASL SAP	↓	multi				
C	L	0-6	mo GR SL		R				0.25 w/ 36" TB
		6-24	WK/MO ABK C		R; some PL 16-22"				
		24-72	WK SBK CL	↓	R; F/C sap				
D	L	0-7	mo GR SL	FR ns/np	Br				0.25 w/ 48" TB
		7-32	PL C		R				
		32-41	ABK C	Fi s/p	R; F/C sap				
		41-80	WK SBK CL	FR ss/sp	R; C sap				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)	25% Red	LP PPBPS
Site LTAR	0.225	0.25

Other Factors (.1946): 36" TB - System 48" TB - Repair
Soil Evaluation By: KMS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: KMS
Others Present:

E 0-7 mo GR SL
7-24 mo/WK ABK C
24-70 WK SBK C, F/C sap 2
Br
R; F/C sap Br
0.25 w/ 36" TB