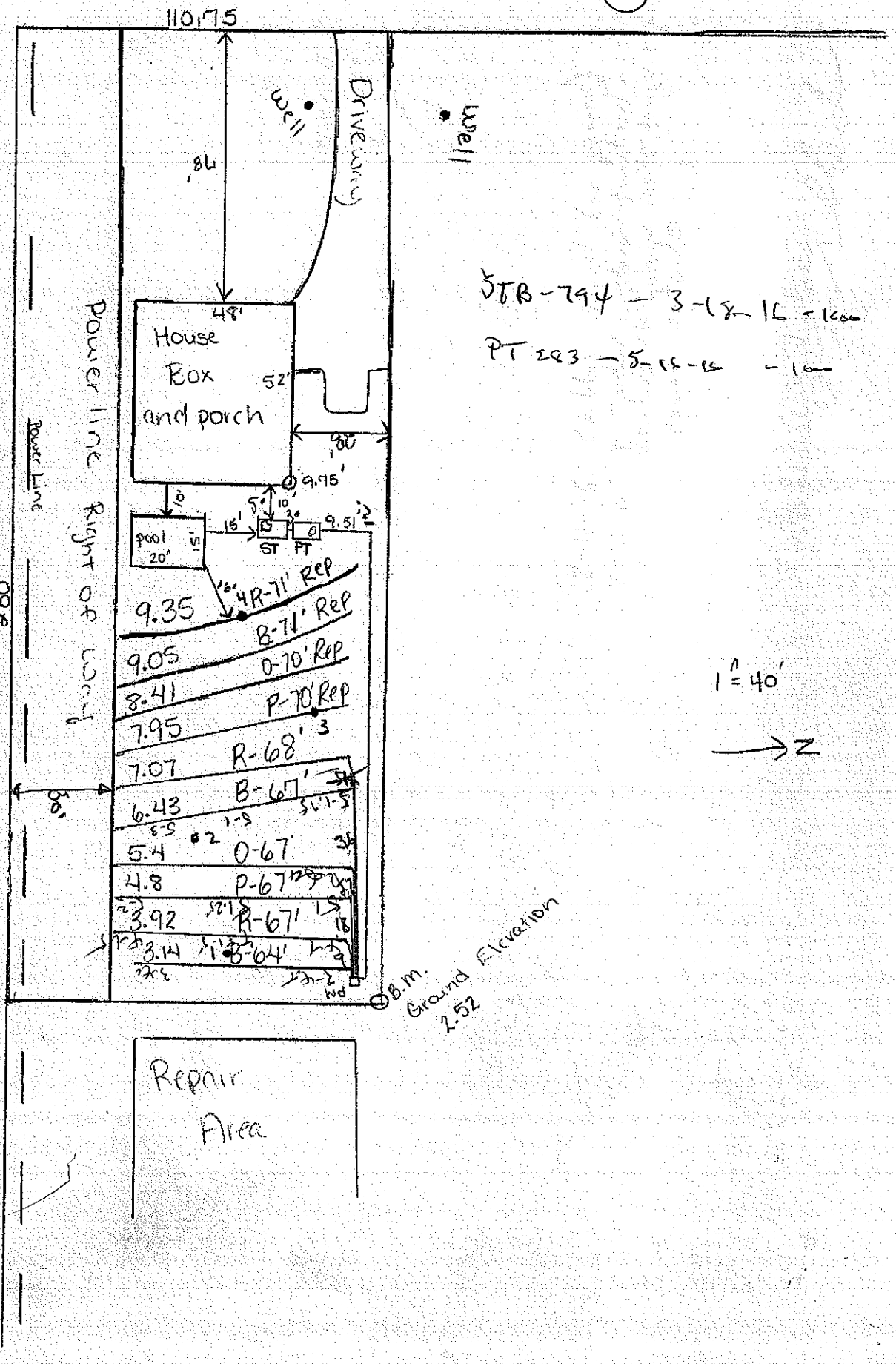
Henry Lane

APPROVED FEB 15 2016



STB-794 – 3-18-16 – 16cm

PT 283 – 5-15-16 – 16cm

APPROVED FEB 11 2016

159 Henry Lane Fast Track Septic Spec Sheet

Number of Bedrooms	**4**
Basement or Crawl	**Concrete Slab/Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	6 (See Table)
Total Linear Feet	400
Trench Width	3' min.
Trench Spacing	9' min.
Max Trench Depth	34"
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	140' of 2.0" SCH 40 PVC
Flow Rate through the system	33 gpm
Elevation head	Approx. 12.4'
Pressure head	2.0'
Friction head	3.3'
20% Contingency	3.5'
Total Head	21.2'
Pump Requirements	33 gpm @ 21.2' 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	7.3
Repair System	**LP PPBPS**
Total Linear Feet	282
Repair Loading Rate	0.3

APPROVED FEB 11 2016

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elevation (Ft.)
1	**System**	**Blue**	**25% Reduction**	**64 endfed**	**3.14**
2	**System**	**Red**	**25% Reduction**	**67 endfed**	**3.92**
3	**System**	**Pink**	**25% Reduction**	**67 endfed**	**4.8**
4	**System**	**Orange**	**25% Reduction**	**67 endfed**	**5.4**
5	**System**	**Blue**	**25% Reduction**	**67 endfed**	**6.43**
6	**System**	**Red**	**25% Reduction**	**68 endfed**	**7.07**
7	Repair	Pink	LP PPBPS	70	7.95
8	Repair	Orange	LP PPBPS	70	8.41
9	Repair	Blue	LP PPBPS	71	9.05
10	Repair	Red	LP PPBPS	71	9.35
				Total System: 400'	
				Total Repair: 282'	

Tank	Blue	1000 gal (2 compartment)	
Pump Tank	Blue	1000	9.5
House	orange	left rear	9.75

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	6
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
Divert surface water away from system area

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

APPROVED FEB 11 2016 SA

Sheet:
Property ID:
Lot #: 1
File #:
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Grande Homes - Grames Property
Address: 555 Delburg St Davidson NC
Proposed Facility: SFR
Design Flow (.1949) 480
Location of Site: 159 Henry LN

Applicant: Matt McCullen
Date Evaluated: 2/2/16
Property Size: 0.71 Ac
Property Recorded:

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

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	L ~6%	0-6	WK SBK SCL	FR SS/SP	Br				0.3
		6-30	Mo SBK C		R				
		30-40	Mo SBK C		R; F Sap/Mica				
		40-48	WK SBK CL		R C Sap/Mica				
2	L ~6%	0-8	WK SBK SCL	FR SS/SP	Br				0.3
		8-36	Mo SBK C		R; F Sap				
		36-48	WK SBK CL		R; C Sap				
3	L ~6%	0-10	WK SBK SCL	FR SS/SP	Br				0.3
		10-28	Mo SBK C		R				
		28-48	WK SBK CL		R, C Sap				
4	L ~6%	0-8	WK SBK SCL	FR SS/SP	Br				0.3
		8-26	Mo SBK C		R				
		26-48	WK SBK CL		R; C Sap				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)	25% Red	LP PPBPS
Site LTAR	0.3	0.3

Other Factors (.1946): Divert Surface H2O from Neighboring Lot
Soil Evaluation By: KMS
Others Present: ELH
Site Classification (.1948): PS
Site Evaluation By: KMS
Others Present: ELH