FAST TRACK LOW PRESSURE MANIFOLD DOSING
FOR A
25% REDUCTION SEPTIC SYSTEM
FOR
SUBSURFACE WASTEWATER DISPOSAL
FALLS PARK SUBDIVISION
___ STILLWATER ROAD – LOT 13
TROUTMAN NC

Prepared for
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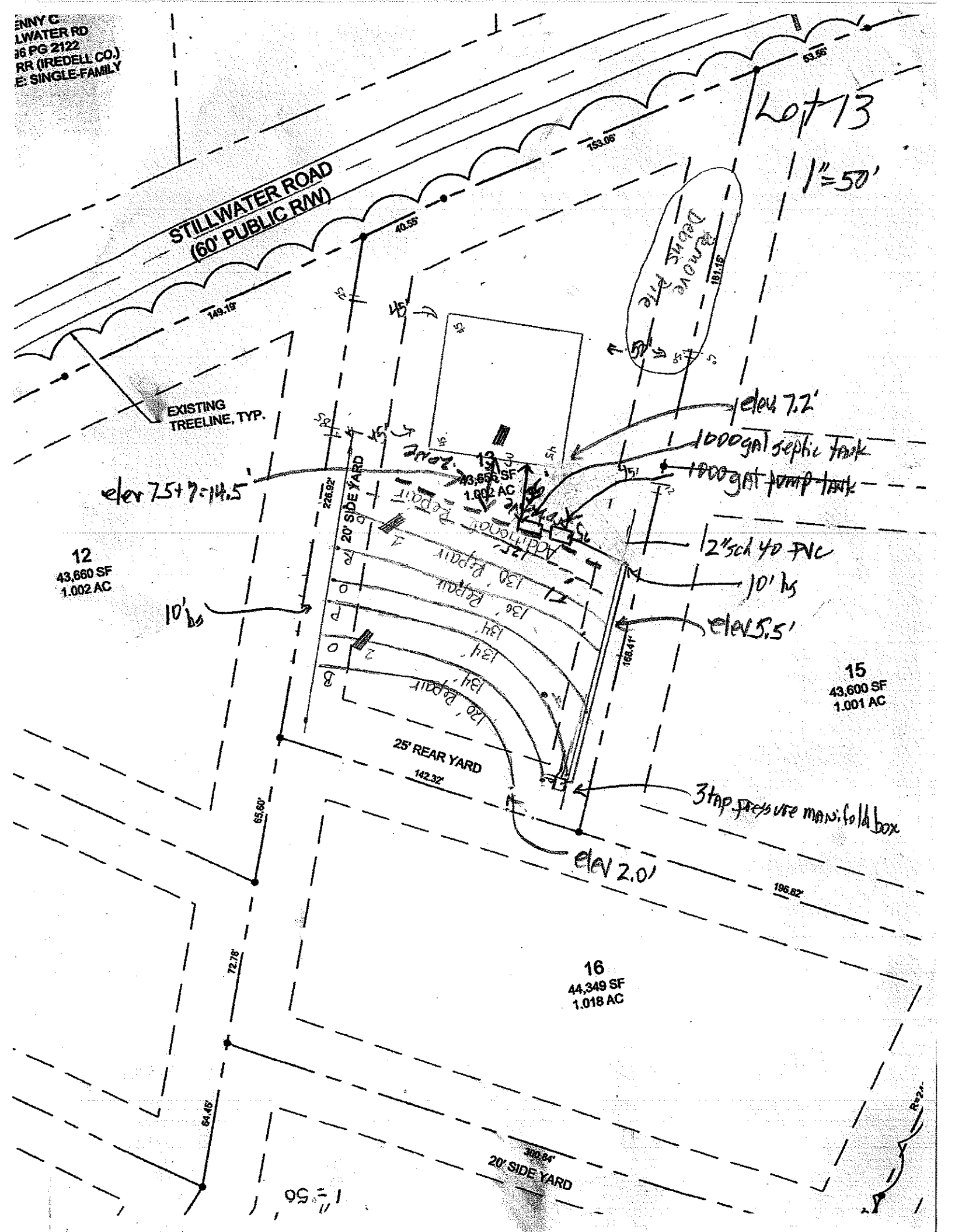
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Copy: Iredell County Health Dept.
Statesville, NC

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ENNY C
LWATER RD
36 PG 2122
RR (IREDELL CO.)
E: SINGLE-FAMILY
STILLWATER ROAD
(60' PUBLIC R/W)
53.56'
153.06'
40.55'
149.19'
EXISTING
TREELINE, TYP.
Lot 13
1"=50'
Remove Pine
181.16'
elev 7.2'
1000gal septic tank
1000gal pump tank
elev 7.5+7=14.5'
13
43,660 SF
1.002 AC
20' SIDE YARD
226.92'
12
43,660 SF
1.002 AC
2"sch 40 PVC
10' bs
10' bs
elev 5.5'
168.41'
15
43,600 SF
1.001 AC
25' REAR YARD
142.32'
3 tap pressure manifold box
elev 2.0'
65.60'
196.82'
72.78'
16
44,349 SF
1.018 AC
64.45'
300.84'
20' SIDE YARD
1" = 50'

DESIGN SPECIFICATIONS

___ Stillwater Road – Lot 13 Falls Park Subdivision

Daily design flow	480 gpd.
Septic tank size	1000 gal.
Pumping tank size	1000 gal.
Initial system	402' of 25% reduction, 3 @ 134'
Effluent loading rate, Initial system	0.3 gpd/ft^2
Total length and diameter of supply pipe	approx. 145 ft. 2" sch 40 PVC
Number and length of laterals	3 @ 134' end-fed
Trench depth	24" maximum on low side
Flow rate through the system	16.5 gpm from 3 each ½" sch 80 taps from a 3" manifold
Tank depth	7.0'
Elevation head	approx. 12.5' (to be verified by installer after tanks are set)
Pressure head	2.0'
Friction head	2.6'
20% contingency	3.4'
Total head	20.5'
Pump requirements	16.5 gpm at 20.5' of head; use Goulds WE03M pump, pump and compatible panel or equivalent
Dosing volume	240 gal. – 2.0 doses/day at design flow
Depth 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	approx. 14.5 min.
Check valve	yes
Siphon break hole	no
Effluent loading rate, Repair system	0.3 gpd/ft^2
Repair system	pressure dose 25% reduction designated on site plan as 120', 120', 130', 125'
Design constraints	remove old berms/terraces
Protected zone	there has to be a 25' protected zone between the lowest septic line and any drain, and 15' to any cut greater than 2'.

Onsite Wastewater Section

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Lot #: 13
File #:
AppID:

Owner: Falls Park, LLC
Applicant: Same
Address:
Date Evaluated: 5/8/14
Proposed Facility: SFR
Design Flow (.1949) 480
Property Size: 1.002
Location of Site: Lot 13, Falls Park
Property Recorded:

Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [X] 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	PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr. Horiz	Profile Class & LTAR
1	L	0-19	Mo SBKC	FR SS/SP	Red				0.3
		19-35	WK SBKCL	FR SS/SP	Red; C sap				
		35-48	MA LSAP	FR SS/SP	Red				
2	L	0-20	Mo SBKC	FR SS/SP	Red				0.3
		20-36	Mo SBKCL	FR SS/SP	Red; F/C sap				
		36-48	WK SBKCL	FR SS/SP	Red; C/M sap				
3	L	0-26	Mo SBKC	FR SS/SP	Red; F sap				0.3
		26-48	WK SBKCL	FR SS/SP	Red; C sap				
					WR vein 12"-24" in one spot on sidewall ← soil above/below it				
4	L (AH)	0-22	Mo SBKC	FR SS/SP	Red; F sap				0.3
		22-48	WK SBKCL	FR SS/SP	Red; 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): Remove Berms
Soil Evaluation By: KMS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: KMS
Others Present:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Lot #:
File #:
AppID:

Owner:
Address: Lot 13
Proposed Facility: Design Flow (.1949)
Location of Site:

Applicant:
Date Evaluated: 2/20/14
Property Size:
Property Recorded:

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

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941 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
T1	LS 8-12%	0-35	MMSBK cl	smfrfrfi 1'	1 faint yel brn mtl	NA	NA	N	
P1	bldr tuns	35-49	mlt SBK cl	mfrsmfi 1 1'					C3
					bthrn oy-mtl	more			

Description	Initial System	Repair System
Available Space (.1945)	≤25%	≤25%
System Type(s)		
Site LTAR		

Other Factors (.1946):
Soil Evaluation By: TCJ
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present: