S&ME

November 15, 2012

Mr. Wayne Horne
131 Stutts Road
Mooresville, North Carolina 28117

Reference: **Technical Assistance with Fast Track Septic Permitting**
Lot 1015 The Point Subdivision
Iredell County, North Carolina
S&ME, Inc. Project No. 1584-12-128

Dear Mr. Horne:

S&ME, Inc (S&ME) has provided technical assistance to obtain a possible four bedroom septic Improvement Permit from the Iredell County Health Department (ICHD). The technical assistance was performed in general accordance with S&ME Proposal No. 1584-12-P326 dated November 12, 2012. All ratings were determined in accordance with the "Laws and Rules for Sewage Treatment and Disposal Systems (15A NCAC 18A .1900)".

Attached is the Application for the Septic Improvement Permit, the Environmental Health Requirements form, and the ICHD Fast Track requirements presented to the ICHD on your behalf. The lot was originally permitted by the ICHD in 2005 for a 3,600 square foot, 3 bedroom house pad. The Improvement Permit was issued to The Point on Norman and is still valid because of the North Carolina House and Senate Bills suspending the permit expiration dates. You are now requesting a 4 bedroom Improvement Permit with a similar pad. Mr. Paul Penninger with S&ME met you on November 13, 2012 after a site visit to review the proposed system and house location.

The property corners, proposed house, and lot lines were flagged by your surveyor. S&ME flagged the proposed septic drainfield on the lot and the proposed septic lines were field located by your surveyor as shown on the attached site plan. We are proposing a 4 bedroom Low Pressure Distribution, T&J Panel System (LP PPBPS) for the primary system and the required 100 percent repair area. Mr. Ben Aldridge, R.S. of the ICHD indicated in a meeting at his office on November 13, 2012 that no additional soil work would be required since the proposed 4 bedroom system utilizes the same areas evaluated and permitted in 2005. Mr. Aldridge indicated the 4 bedroom application could be submitted as an "intermediate relayout".

Once the septic area is permitted, it should be fenced off for protection during home construction. Access to the lot should only be by the proposed drive. There shall not be

cuts of 2 feet or greater within 15 feet of any part of the permitted septic system. No fill should be placed on the septic areas.

S&ME appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you and the ICHD with the Fast Track site evaluation. The attached plan is not intended to be a Professional Engineer plan. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

S&ME, Inc.

Paul G. Penninger, L.S.S.
Senior Soil Scientist

Rob Willcox, L.S.S.
Natural Resources Services Leader

Attachments:

1. ICHD Improvement Permit Application, and Health Department Requirements
2. Site Plan and System Specifications
3. 2005 ICHD 3 Bedroom Improvement Permit

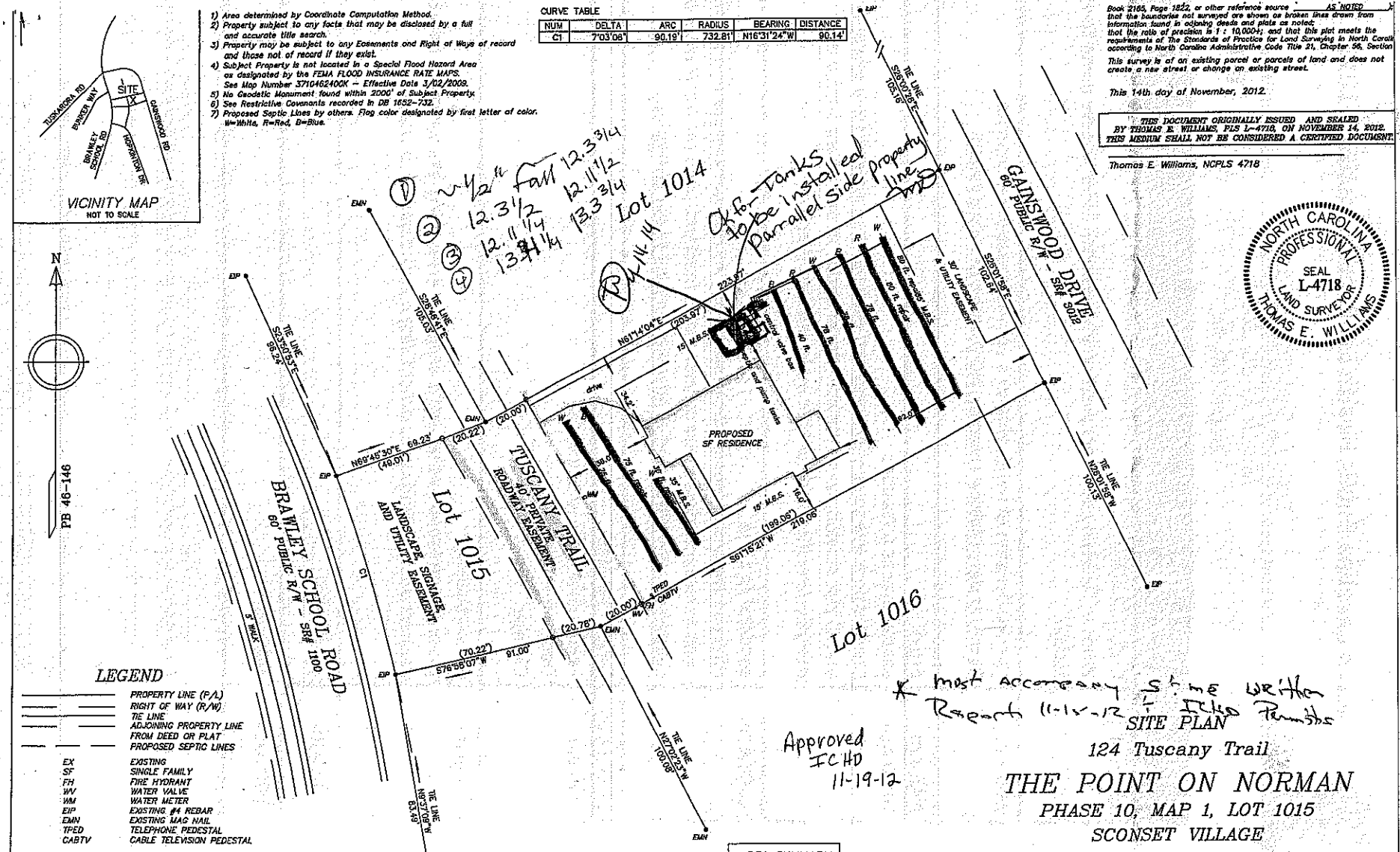
Copy: ICHD

S:\1584\PROJECTS MASTER\Projects 2012\1584-12-128 Wayne Horne - The Point 1015\1584-12-128 The Point 1015 Summary Letter.doc

The Point Lot 1015 Fast Track System Specifications (11-15-12)

Number of Bedrooms	4
Basement or Crawl	**Crawl/Slab Garage**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	4 (See Table)
Total Linear Feet	274
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	approx. 20' of 2 " SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	31.5 gpm
Elevation head	Approx. 8', pumping downhill
Pressure head	3.0'
Friction head	approx. 1'
20% Contingency	2.4'
Total Head	14.4'
Pump Requirements	31.5 gpm @ 15' of head To be verified by installer and ICHD at installation
Maximum Dosing Volume	226 gallons max
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	approx. 7.2 min.
Check Valve	yes
Siphon Break hole	yes
Repair System	**LP PPBPS**
Total Linear Feet	340' shown (267 required)
Repair LTAR	0.3

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**



CURVE TABLE

NUM	DELTA	ARC	RADIUS	BEARING	DISTANCE
C1	7°03'06"	90.19'	732.81'	N16°31'24"W	90.14'

1) Area determined by Coordinate Computation Method.
2) Property subject to any facts that may be disclosed by a full and accurate title search.
3) Property may be subject to any Easements and Right of Ways of record and those not of record if they exist.
4) Subject Property is not located in a Special Flood Hazard Area as designated by the FEMA FLOOD INSURANCE RATE MAPS. See Map Number 3710462400K – Effective Date 3/02/2009.
5) No Geodetic Monument found within 2000' of Subject Property.
6) See Restrictive Covenants recorded in DB 1652-732.
7) Proposed Septic Lines by others. Flag color designated by first letter of color. W=White, R=Red, B=Blue.

Book 2165, Page 1822, or other reference source AS NOTED

that the boundaries not surveyed are shown as broken lines drawn from information found in adjoining deeds and plats as noted; that the ratio of precision is 1 : 10,000+; and that this plat meets the requirements of The Standards of Practice for Land Surveying in North Carolina according to North Carolina Administrative Code Title 21, Chapter 56, Section

This survey is of an existing parcel or parcels of land and does not create a new street or change an existing street.

This 14th day of November, 2012.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY THOMAS E. WILLIAMS, PLS L-4718, ON NOVEMBER 14, 2012. THIS MEDIUM SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Thomas E. Williams, NCPLS 4718

NORTH CAROLINA PROFESSIONAL SEAL L-4718 LAND SURVEYOR THOMAS E. WILLIAMS

LEGEND

	PROPERTY LINE (P/L)
	RIGHT OF WAY (R/W)
	TIE LINE
	ADJOINING PROPERTY LINE FROM DEED OR PLAT
	PROPOSED SEPTIC LINES
EX	EXISTING
SF	SINGLE FAMILY
FH	FIRE HYDRANT
WV	WATER VALVE
WM	WATER METER
EIP	EXISTING #4 REBAR
EMN	EXISTING MAG NAIL
TPED	TELEPHONE PEDESTAL
CABTV	CABLE TELEVISION PEDESTAL

NOTE: IRON STAKES AND MONUMENTS AS SHOWN (●), ALL OTHERS CALCULATED POINTS ( ).

Williams Land Surveying, Inc.
License Number C-3638
274 Baymount Drive, Statesville, NC 28625
phone: (704) 876-3996 ~ email: runningonfaith@bellsouth.net
file: 12\PNT1015

SCALE: 1" = 40'

AREA SUMMARY
LOT 1015
0.694 ACRE
30,218 SQ.FT.

Approved
IC HD
11-19-12

* most accessary site work Reamk 11-15-12 Tied Permits

SITE PLAN

124 Tuscany Trail

THE POINT ON NORMAN

PHASE 10, MAP 1, LOT 1015
SCONSET VILLAGE

Davidson Township, Iredell County, NC
PIN# 4624-37-3041 ~ D.B. 2165-1822 ~ P.B. 46-

Property of: C & H Investment Holdings, LLC

House and setpic lines located on survey by Thomas Williams. Septic tanks, drive, and distrubution added by S&ME on 11-15-12.

Table 1: The Point Lot 1015 Fast Track Summary of Primary Line Specifications (11-15-12)

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	System	blue	LPPPBPS	40	5.6	9	9	1 per panel	5/32"
2	System	red	LPPPBPS	78	6.3	18	18	1 per panel	5/32"
3	System	white	LPPPBPS	78	7.2	18	18	1 per panel	5/32"
4	System	blue	LPPPBPS	78	8.7	18	18	1 per panel	5/32"
						Total: 63	Total:63 (1 in each panel turned up)		

Total System: 274' (267 required)
Total Repair: 340' (267 required)

Tank		1500 gal (2 compartment)	
Pump Tank		1000 gal.	3.3
House	left, rear		4.0

Note: **Installer and ICHD shall verify all line locations, tank locations, and elevations prior to installation.**
System is to be installed according to any other ICHD requirements or policies.
These specifications are to satisfy the ICHD Fast Track LSS checklist and are not intended to represent an Engineered System Design.
Use trench depth on ICHD IP

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

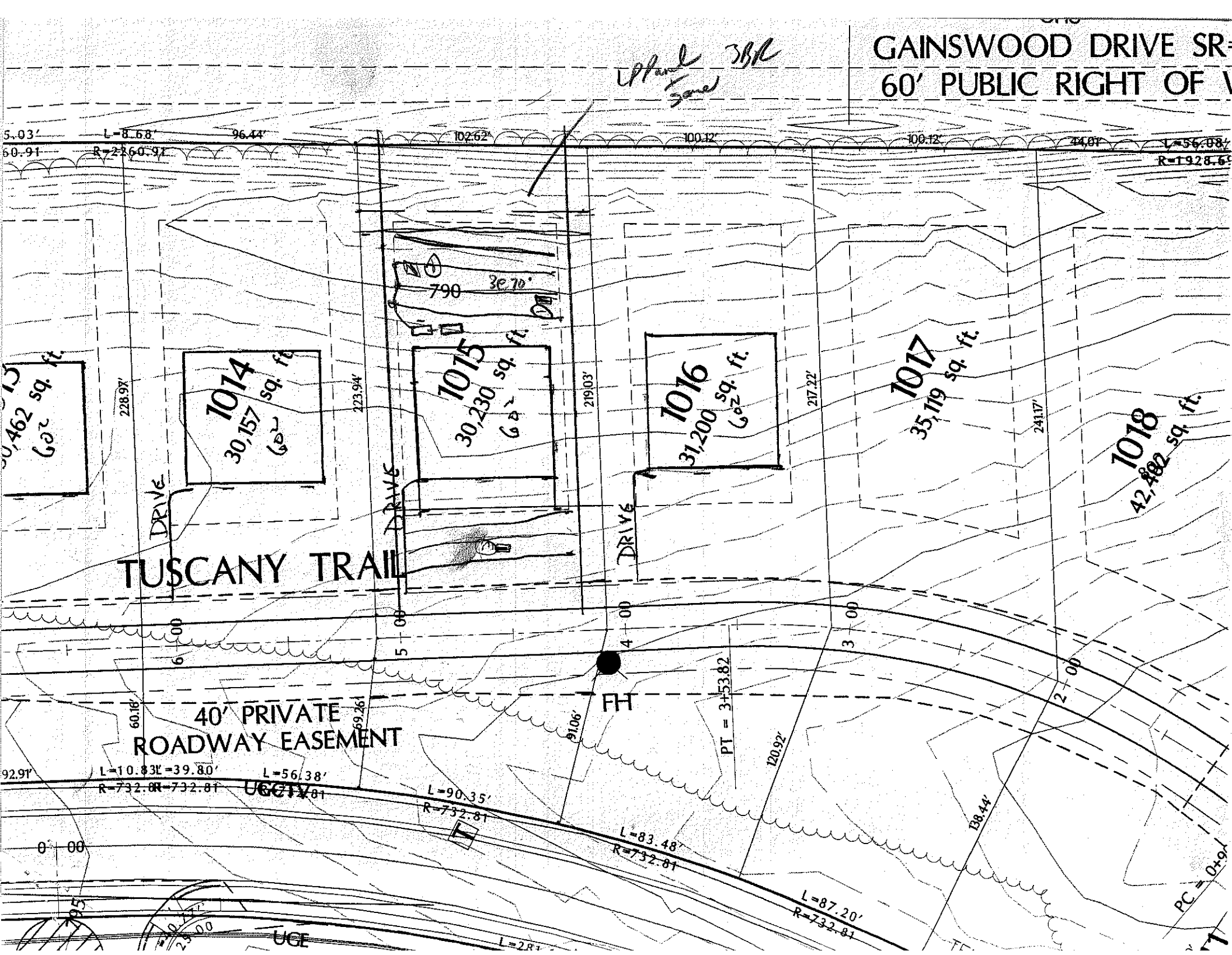
SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Lot 15 Point PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ 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	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1		0-13	SCL WSBK	fr; SSSP	common SAP				PS .3
		13-36	RC MSBK	fri SSSP					
		36-48	RCL SBK	fri SSSP					
2		0-6	BSCL GR	fri SSSP					PS .3
		6-26	RC SBK	fri SSSP					
		26-48	RCL MCSBK	fri SSSP					
3		0-11	RBSCL WSBK	fri SSSP					PS .8
		11-30	RBC SBK	fri SSSP - Red Mottles					
		30-54	RCL WSBK	fri SSSP few SAP					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): Approved ICHD 11-19-12
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____


GAINSWOOD DRIVE SR
60' PUBLIC RIGHT OF
1014
30,157 sq. ft.
1015
30,230 sq. ft.
1016
31,200 sq. ft.
1017
35,119 sq. ft.
1018
790
TUSCANY TRAIL
DRIVE
40' PRIVATE
ROADWAY EASEMENT
FH
PT = 3+53.82
PC = 0+9
UGE
UGCTV
L=10.83'
L=39.80'
L=56.38'
L=90.35'
L=83.48'
L=87.20'
R=732.81
228.97'
223.94'
219.03'
217.22'
241.17'
102.62'
100.12'
100.12'
96.44'
L=8.68'
R=2260.91'
L=56.08'
R=1928.69'
60.16'
59.26'
91.06'
120.92'
138.44'
92.91'
6+00
5+00
4+00
3+00
2+00
0+00