February 24, 2015

Mr. Sean Higbea
4301 Andrew James Drive
Charlotte, North Carolina 28216

Reference: **Technical Assistance with Fast Track Septic Permitting**
Fast Track Limited Relayout
Lot 1339 The Point Subdivision
Iredell County, North Carolina
S&ME, Inc. Project No. 1584-12-087

Dear Mr. Higbea:

S&ME, Inc (S&ME) has provided technical assistance to obtain a possible new, four bedroom septic Improvement Permit and Construction Authorization from the Iredell County Health Department (ICHD) for the above referenced lot. The technical assistance was performed as an additional service to S&ME Proposal No. 1584-12-P221 and executed Authorization for Services dated July 27, 2012. The additional services were authorized by you in an email to S&ME dated February 19, 2015.

Attached is the Application for the Septic Improvement Permit and the ICHD Fast Track requirements presented to the ICHD on your behalf. The lot was originally permitted by the ICHD in 2004 for a 4 bedroom house pad. The ICHD issued you a new 4 bedroom Improvement Permit with a new house pad and a proposed pool in 2012. This permit is still valid. We understand you are now ready to construct your house and requested that the drainfield be adjusted slightly to allow your builder to construct your proposed drive, house, and pool. The system being proposed now has similar line lengths to the 2004 original permit and utilizes the same area, system type, and wastewater long term acceptance rate approved in 2004 and 2012. No new soil evaluation was completed for this application.

We discussed your proposed house and septic plan with Mr. Adrian Pruett of the ICHD on February 20, 2015. Mr. Pruett indicated that your proposed revisions to the 2012 ICHD Improvement Permit can be approved at a Fast Track Limited Relayout with an ICHD fee of $105. Your surveyor recently located the pin flags that S&ME placed on the lot in 2012 as shown on the attached site plan. We are proposing a Low Pressure T&J Panel System and repair area as was previously permitted in 2004 and 2012.

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 shall be placed on the proposed drainfield. If any changes are made to the proposed site plan in this report, they shall be approved by the ICHD prior to construction.

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.
Soil Scientist

Rob Willcox, L.S.S.
Senior Project Manager / Soil Scientist

Attachments:

1. ICHD Improvement Permit Application
2. Site Plan and System Specifications
3. 2004 and 2012 ICHD Improvement Permit

Copy: ICHD

T:\Projects\2012\ENV\1584-12-087 Sean Higbea - The Point 1339\February 2015 FT Relayout\1584-12-087 The Point1339 Summary Letter (2015).doc

The Point Lot 1339 Fast Track System Specifications (2-24-15 Limited FT App.)

Number of Bedrooms	4
Basement or Crawl	**Basement/Slab Garage**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
	(T&J Panel)
No. Lines	6 (See Table)
Total Linear Feet	280 (267 required)
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. 290' of 2 " SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	31 gpm
Elevation head	Approx. 25'
Pressure head	3.0'
Friction head	approx. 8'
20% Contingency	7.2'
Total Head	43.2'
Pump Requirements	31 gpm @44' of head To be verified by installer and ICHD.
Maximum Dosing Volume	223[redacted] 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	no
Repair System	**LP PPBPS**
Total Linear Feet	279 shown (267 required)
Repair LTAR	0.3

OK Ltd
APPROVED MAR 20 2015

***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.**

The Point Lot 1339 Summary of Primary Line Specifications (2-24-15 Limited FT App.)

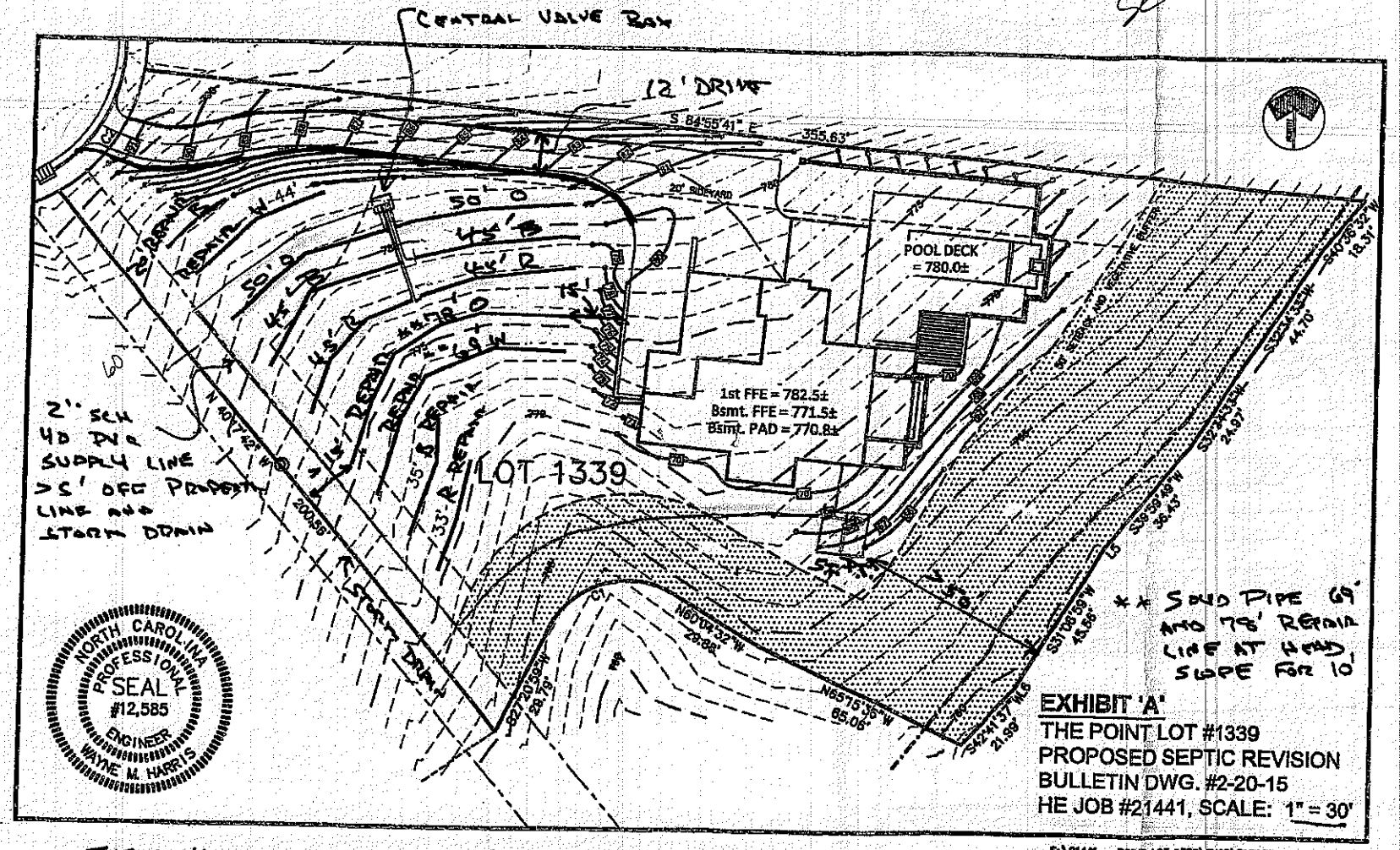
Line No.	Use	Line Color	System Type	Line Length (Ft.)	*Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1a	System	white	LPPPBPS	50	781.0	11	12	1 per panel	5/32"
1b	System	white	LPPPBPS	50	781.0	11	17	1 per panel	5/32"
2a	System	blue	LPPPBPS	45	779.2	10	17	1 per panel	5/32"
2b	System	blue	LPPPBPS	45	779.2	10	17	1 per panel	5/32"
3a	System	red	LPPPBPS	45	777.5	10	17	1 per panel	5/32"
3b	System	red	LPPPBPS	45	777.5	10	17	1 per panel	5/32"
						Total: 62	Total:62 (1 in each panel turned up)		

Total System: 280' (267 required)

Tank		1500 gal (2 compartment)	
Pump Tank		1500 gal.	766.0
House	(FR)		770.0

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
Elevations from contours on site plan by engineer.

OK IHD
APPROVED MAR 24 2015
SC



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SEAN HIGBEA - THE POINT LOT 1339
2-24-15 LIMITED FT. RELAYOUT
SITE PROJECT 1584-12-087

* SITE PLAN MUST ACCOMPANY SITE WRITTEN REPORT