Site Address: 147 South Longfellow Lane - Mrsvl.

IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 MOORESVILLE 704-664-5281

IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM INSPECTION

PERMIT# 114636 PIN# 4624790494 DATE 5/27/08

OWNER OR APPLICANT Augusta Homes Inc. / ZIPADELLI PHONE: Business _____ Home _____

ADDRESS 10602 Bailey Rd. Ste B, Cornelius, NC. 28301

LOCATION South Longfellow; 1100 TL New Haven (R) South Longfellow at cul de sac on (L) 147 S. Longfellow

SUBDIVISION The Point BLOCK / SECTION 12 LOT 1214 LOT AREA ~41000 FT² SITE CLASS. PS DESIGN FLOW 600 L.T.A.R. .3

Septic Tank: 1500 Gallons; STB 444 Date 5-15-09
Pump Tank: 1500 Gallons; PT 477 Date 4-21-09
Pump Make: _____ Model _____ Serial No. _____
Nitrification Field: No Fields 1 Square Feet 1026 Linear Feet 342
No Lines 5 Trench Width 2-3' Max Trench Bottom Depth 3'

☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI
System Description: LPP-16" PPBPS
Repair System Description: SAME TYPE
Maintenance Agreement Required: ☒ Yes ☐ No

☒ House/Mod. Home No. Bedrooms 5
☐ Mobile Home No. Persons ____
☐ Business No. Employees ____
☐ Other _____

Water Supply: ☐ Individual ☐ Public ☒ Community POINT

Gravel Depth No ☐ Gravity ☒ Pressure ☐ Slab ☒ Crawl Space ☐ Basement w/plumbing ☐ Basement wo/plumbing

Comments/Conditions: FAST TRACK REDRAW

Comments/Conditions: 3/16" hole drilled, lines checked 7/1/09

INITIAL SITE SKETCH

(1) System Layout + Design by S+ME 704-996-6330

(2) Installed must have Specs + Layout from S+ME onsite at all times

AS BUILT SKETCH

CHECKED TANKS 6-26-09 KA

SET 2' PRESSURE HEAD 12-22-09 KA

Permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit with plat valid without expiration ☐ Improvement Permit with site plan valid for sixty months ☒ Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Signed: _____ date 5-27-08

Improvement Permit by: Wesley Sparks R.S. date 5/27/08

Authorization to Construct by: Wesley Sparks R.S. date 5/27/08

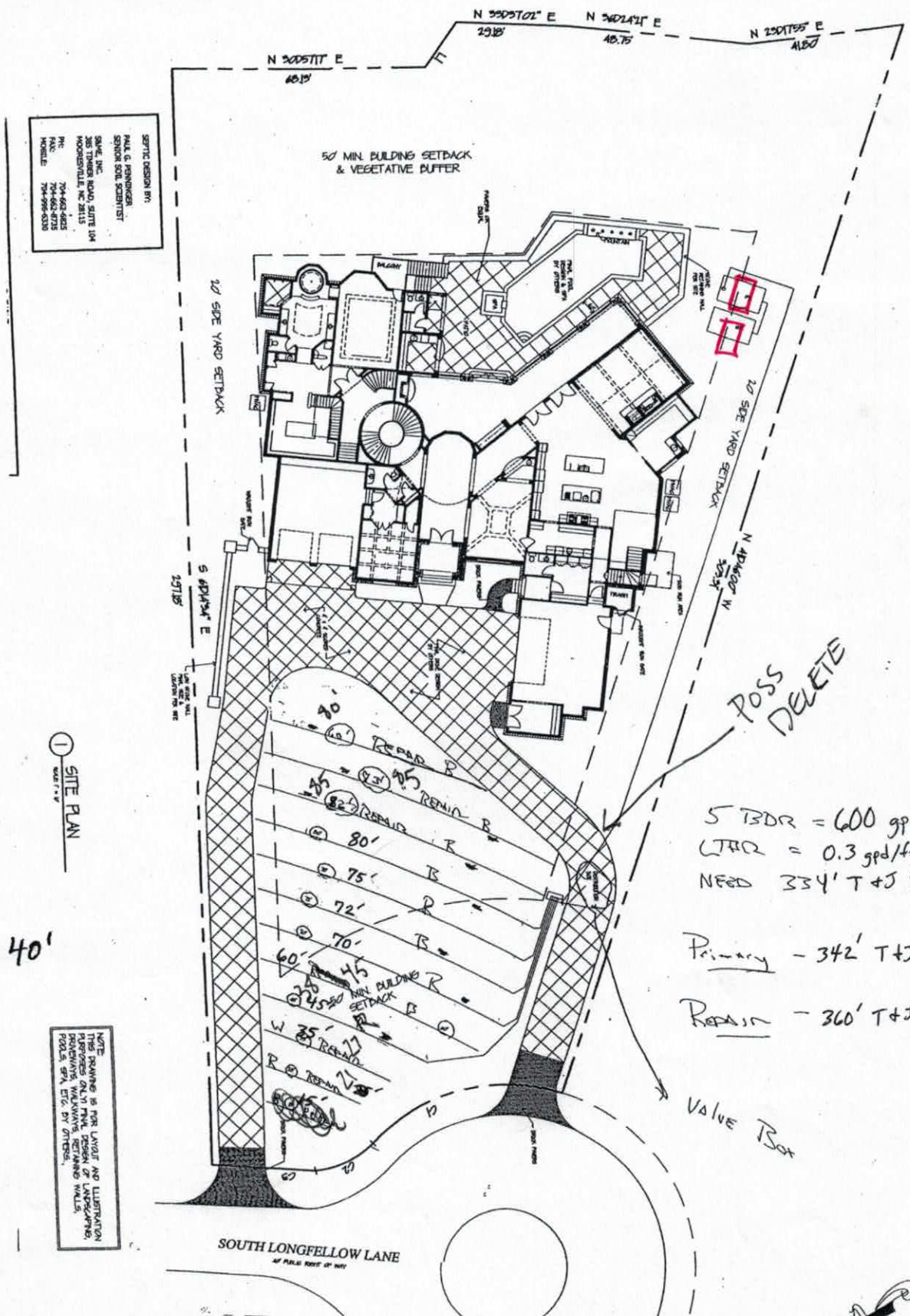
Installed by: R+H

Operation Permit by: _____ REHS date 12-22-09

Existing System Inspection by: _____ date _____

HEALTH DEPT. COPY: WHITE OWNER COPY (FINAL): YELLOW OWNER COPY (INITIAL): PINK

13688 Sq'


N 30°57'11" E
29.18'
N 34°01'47" E
48.75'
N 25°01'55" E
41.80'
N 30°57'11" E
68.13'
50' MIN. BUILDING SETBACK
& VEGETATIVE BUFFER
20' SIDE YARD SETBACK
S 69°14'34" E
25.15'
N 42°40'00" W
90.34'
10' SIDE YARD SETBACK
SEPTIC DESIGN BY:
PAUL G. PENNINGER
SENIOR SOIL SCIENTIST
SSME, INC.
385 TIMBER ROAD, SUITE 104
MOORESVILLE, NC 28115
PH: 704-663-4825
FAX: 704-663-4735
MOBILE: 704-956-0336
SITE PLAN
SCALE: 1" = 40'
NOTE:
THIS DRAWING IS FOR LAYOUT AND ILLUSTRATION PURPOSES ONLY! FINAL DESIGN OF LANDSCAPING, DRIVEWAYS, WALKWAYS, RETAINING WALLS, POOLS, SPA, ETC. BY OTHERS.
SOUTH LONGFELLOW LANE
AT PUBLIC REST OF WAY
POSS DELETE
VALVE BOX
5 BDR = 600 gpd
LIBR = 0.3 gpd/ft²
NEED 334' T+J Panel
Primary - 342' T+J Panel
Repair - 360' T+J Panel
40
70
70
75
80

S&ME

To: Iredell County Health Department

From: Paul G. Penninger, LSS
Patrick L. Mitchell, RS, LSS-IT

RE: **Fast Track Relayout**
Lot 1214, The Point on Norman

Date: May 22, 2008

Attached is a revised site plan of Lot 1214 in The Point. Please call when you are ready to review the revision and we will meet with you if needed.

Lot 1214 currently has a valid four (4) bedroom improvement permit. The soil long term acceptance rate was approved by the Iredell County Health Department in September of 2003 at 0.30 gpd/ft^2. The septic system remains in the same area as the originally permitted system. The revised septic system is now sized for a five (5) bedroom home.

The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist the Iredell County Health Department (ICHD) with the site evaluation. The ICHD must approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC rules. If the ICHD wishes to change tank locations, distribution devices, etc., this can be shown on the Improvement Permit.

All information and specifications were prepared in conjunction with the Fast Track Program for Iredell County and are for the sole use of Augusta Homes, Inc. in acquiring a permit under the Fast Track Program. It is ultimately the Iredell County Health Department's responsibility to verify all soil information and system specifications before permitting and/or septic system installation.

Copy:
Ken Wrench
Augusta Homes, Inc.

Lot 1214 The Point on Norman

Fast Track Septic System Information

Number of Bedrooms:	**5**
Design Flow (gpd):	600
Foundation Type:	**Basement w/ Plumbing**
Initial System Type:	**LP PPBPS**
LTAR (gpd/ft2):	**0.3**
No. Lines:	5
Total Linear Feet:	342
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:	~210' of 2" SCH 40 PVC
Size of laterals:	1 1/4" SCH 40 PVC
Flow Rate through the system (gpm):	38.5
Approx. Elevation head (ft.):	15
Pressure head (ft.):	3
Friction head (ft.):	3
20% Contingency (ft.):	2
Total Head (ft.):	23
Approx. Pump Requirements:	**38.5 gpm @ 23 ft. of head**
	To be designed by installer at time of installion
Dosing Volume (gal/dose/day @ design flow):	277.2 gallons — 2.2 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.)
Approx. Pump Run Time per dose (min.):	7.2
Check Valve:	Yes
Siphon Break hole:	Yes
Repair System:	**LP PPBPS**
Total Linear Feet:	360
Repair LTAR:	0.3 — *333.3 ft. Required*

***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.**

Lot 1214 The Point on Norman **Fast Track Septic System Information**

Table 1: Summary of Initial LPPPBPS System Specifications

Line No.	Line Color	Length (ft)	# Panels	**Rod Reading Elev. (Ft.)	Hole Size(In.) per panel
1	Red	45	10	4.8'	5/32"
2	Red	70	16		5/32"
3	Blue	72	16		5/32"
4	Red	75	17		5/32"
5	Blue	80	18		5/32"
Totals		**342**	**77**		

Table 2: Summary of Repair System Specifications

Laterals	Line Color	Length (ft)	**Rod Reading Elev. (Ft.)
1	Blue	15	
2	Red	25	
3	White	35	
4	Blue	60	
5	Red	82	
6	Blue	83	
7	White	60	6.8'
Totals		**360**	

			**Rod Reading Elev. (ft.)
Tank	Red	1500 gal (2 compartment)	
Pump Tank	Red	1500 gal.	12.5'
House	Blue	Front Left Corner	7.6'

**** Elevations should be verified by surveyor at time of installation**

NOTES: ** Place one 5/32" hole per panel

1) Install supply line pipe ≥30 inches deep where it crosses under driveway
2) Grinder pump may be required for basement plumbing

VISION OF ENVIRONMENTAL HEALTH
I-SITE WASTEWATER SECTION

PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

WNER: _____ APPLICATION DATE _____
DDRESS: _____ DATE EVALUATED: _____
OPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
OCATION OF SITE: 107 14 ph. 12 Point PROPERTY RECORDED: _____
ATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
/ALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut
/PE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LAND-SCAPE POSITION/ SLOPE %	HORI-ZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1		0-7	SL cobl BSk f:	SSSP					PS .3
		7-38	B/C WkSBK HR Sl/fi	fr: SSSP	common SAP				
		38+57	OSAP M	fr: SSSP					
2		0-54	MkSBK RC	fr: SSSP	common/many SAP				PS .3
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
vailable Space (.1945)		
ystem Type(s)		
ite LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

)MMENTS: _____


ENVIRONMENTALLY SENSITIVE (TYPICAL)
50' VEGETATIVE BUFFER
BUILDING
14
41,758 sq. ft.
15
37,921 sq. ft.
13
50,885 sq. ft.
12
35,071 sq. ft.
39' FRONT YARD SETBACK
84' FRONT YARD SETBACK
DRIVE
20' PSDE
297'
303'
311'
286'
174'
118'
55'
68'
49'
47'
45'
35'
29'
15'
63'
18'
44'

IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. **APPLICATION FOR:** X **Improvement Permit** X **Authorization To Construct** ___**BOTH** ___**Existing System Inspection**

2. **Page 2: *Site Plan Worksheet* Form MUST Accompany This Application**
   The following optional attachments may also be submitted: ___ **Survey Plat, Scaled no more than 1 Inch = 60 Feet**
   Place check ( ) beside whichever is submitted if applicable ___ **Custom Site Plan, Scaled no more than 1 Inch = 60 Feet**

3. **Applicant Information:**

Applicant Name	Mailing Address	Home Phone	Work Phone
Augusta Homes, Inc.	10602 Bailey Road, Suite B		Cornelius, NC 28301

Owner Name	Mailing Address	Home Phone	Work Phone
			SME, Inc. 704-996-6330

4. **Property Information:**

Street Address	Subdivision Name	Section/Phase and Lot Number
	The Point on Norman	Lot 1214

Driving Directions: Brawley School Rd to The Point, (L) New Haven, (R) South Longfellow Ln., @ end on left.

****

5. **RESIDENTIAL Site Development Information:** ***(Check or Complete ALL that apply)***

- (X) **New, Single Family Residence**
- ( ) **New, Multi-Family Residence**
- ( ) **Expansion of Existing Septic System**
- ( ) **Repair To Failing Septic System**

Maximum Number of Bedrooms 5
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

- ( ) **Crawl Space Foundation?**
- ( ) **Concrete Slab Foundation?**
- (X) **Basement w/Plumbing?**
- ( ) **Basement w/out Plumbing?**

IF Non- Residential Site Development:
Type of Business ___
Square Footage of Building ___
Maximum Number of Employees ___
Maximum Number of Seats ___

****

6. **Proposed Water Supply:**

( ) **New Well** ( ) **Existing Well** ( ) **Community Well** ( ) **City Water** (X) **Other Public Water**

****

7. **Desired Septic System Type:** ***(You may rank in order of preference, if any)***

(X) **Alternative** ( ) **Conventional** (X) **Innovative** ( ) **Modified Conventional** ( ) **Other**___ ( ) **No Preference**

****

8. **Please Answer The Following To The Best of Your Ability:**

( ) **Yes** (X) **No** **Does the site contain any jurisdictional wetlands?**
( ) **Yes** (X) **No** **Is any non-domestic sewage (i.e. industry) to be generated?**
( ) **Yes** (X) **No** **Is the site subject to approval by any other public agency?**

****

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. **Signature:** _____ 05/22/08
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

IREDELL COUNTY HEATLH DEPARTMENT

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE SAMPLE SITE PLAN BELOW. INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!

Place an (X) beside each item as you complete the site plan:

____ **Property Line measurements are clearly identified…**
____ **All proposed structures are indicated…**
SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site
____ **Front and side setbacks from property line…**
____ **Preferred driveway location and configuration, preferred well location…**
____ **Area you prefer your septic system to be placed…**
____ **North arrow, or other sufficient indicator of direction…**

Circle N/A on the following if appropriate:

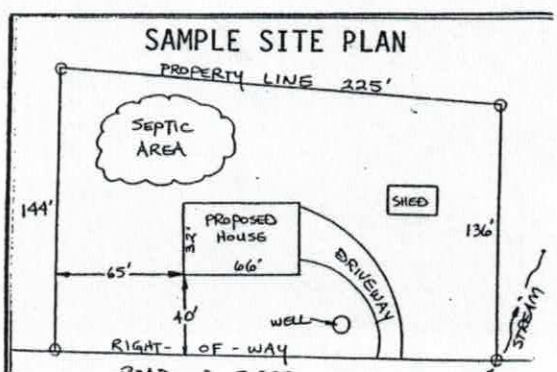
____ **Location of septic systems and wells within 100' of your property… N/A**
____ **Location of easements and rights of ways on your property… N/A**
____ **Location of any designated wetlands on the property… N/A**

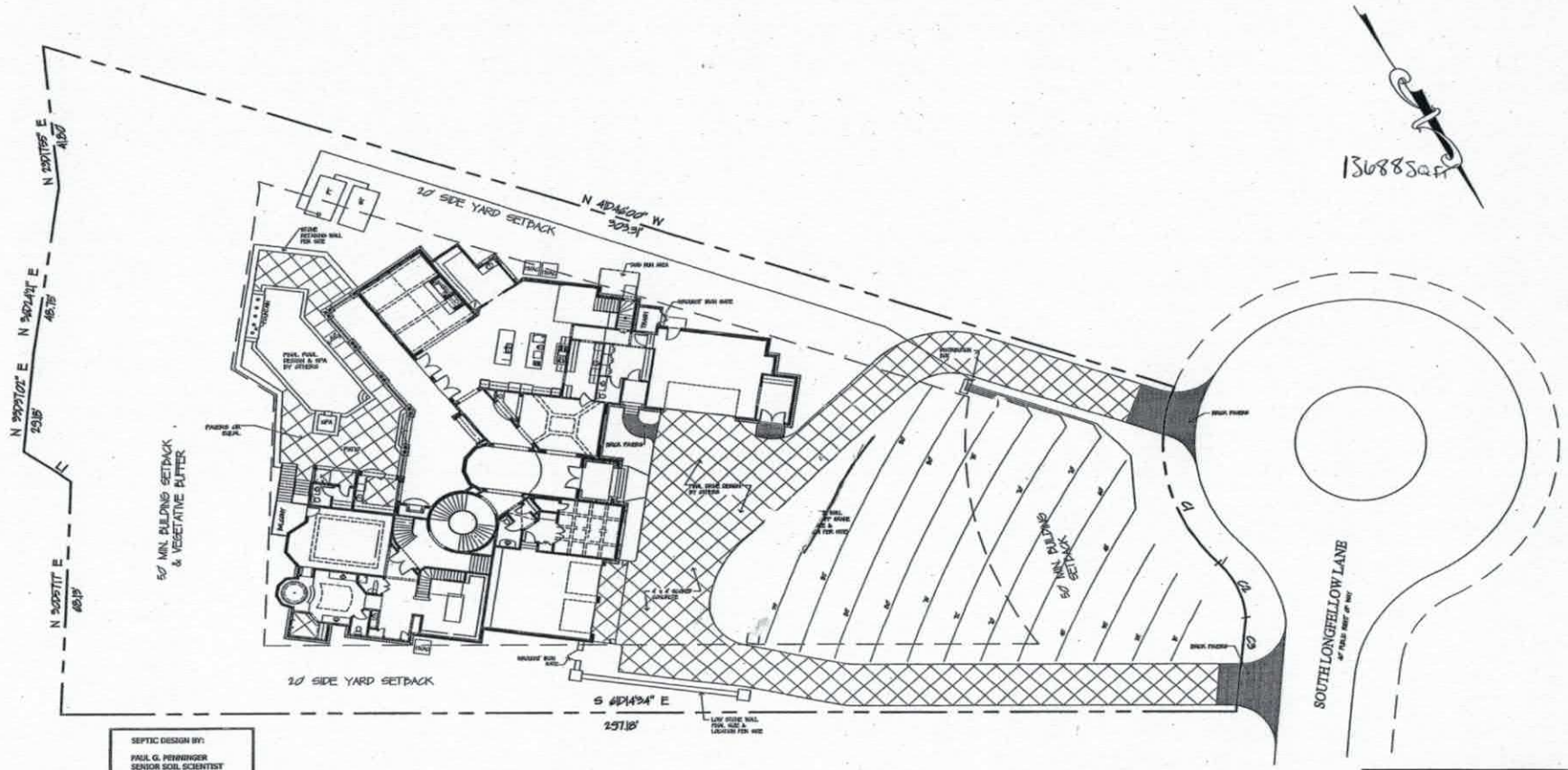
Signature: [redacted]
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

05/22/08
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

* See Attached





1 SITE PLAN
SCALE: 1" = 10'

SEPTIC DESIGN BY:

PAUL G. PENNINGER
SENIOR SOIL SCIENTIST

S&ME, INC.
385 TIMBER ROAD, SUITE 104
MOORESVILLE, NC 28115

PH: 704-662-6825
FAX: 704-662-6735
MOBILE: 704-996-6330

CURVE TABLE					
CURVE	RADIUS	LENGTH	BEARING	CHORD	DELTA
C1	50.00	99.14	N 18°56'05" E	82.55	113°35'15"
C2	35.00	23.31	S 10°01'35" W	22.93	38°09'43"
C3	610.00	29.18	N 34°01'48" E	29.18	2°44'56"

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 39°51'56" W	14.77'

THIS SITE PLAN IS BASED ON A SURVEY PROVIDED BY THE HOMEOWNER. DAVID O'BRYAN IS NOT RESPONSIBLE FOR SURVEY INFORMATION AS DRAWN.

NOTE:
THIS DRAWING IS FOR LAYOUT AND ILLUSTRATION PURPOSES ONLY! FINAL DESIGN OF LANDSCAPING, DRIVEWAYS, WALKWAYS, RETAINING WALLS, POOLS, SPA, ETC. BY OTHERS.

NOTE:
FINAL LOCATION OF HOUSE TO INCLUDE ELEVATIONS & FINAL GRADE TO BE DETERMINED & APPROVED ON SITE WITH OWNER & BUILDER PRIOR TO CONSTRUCTION.

NEW RESIDENCE FOR:

ZIPADELLI FAMILY

LOT 1214 - SOUTH LONGFELLOW LANE
THE POINT - LAKE NORMAN, NC

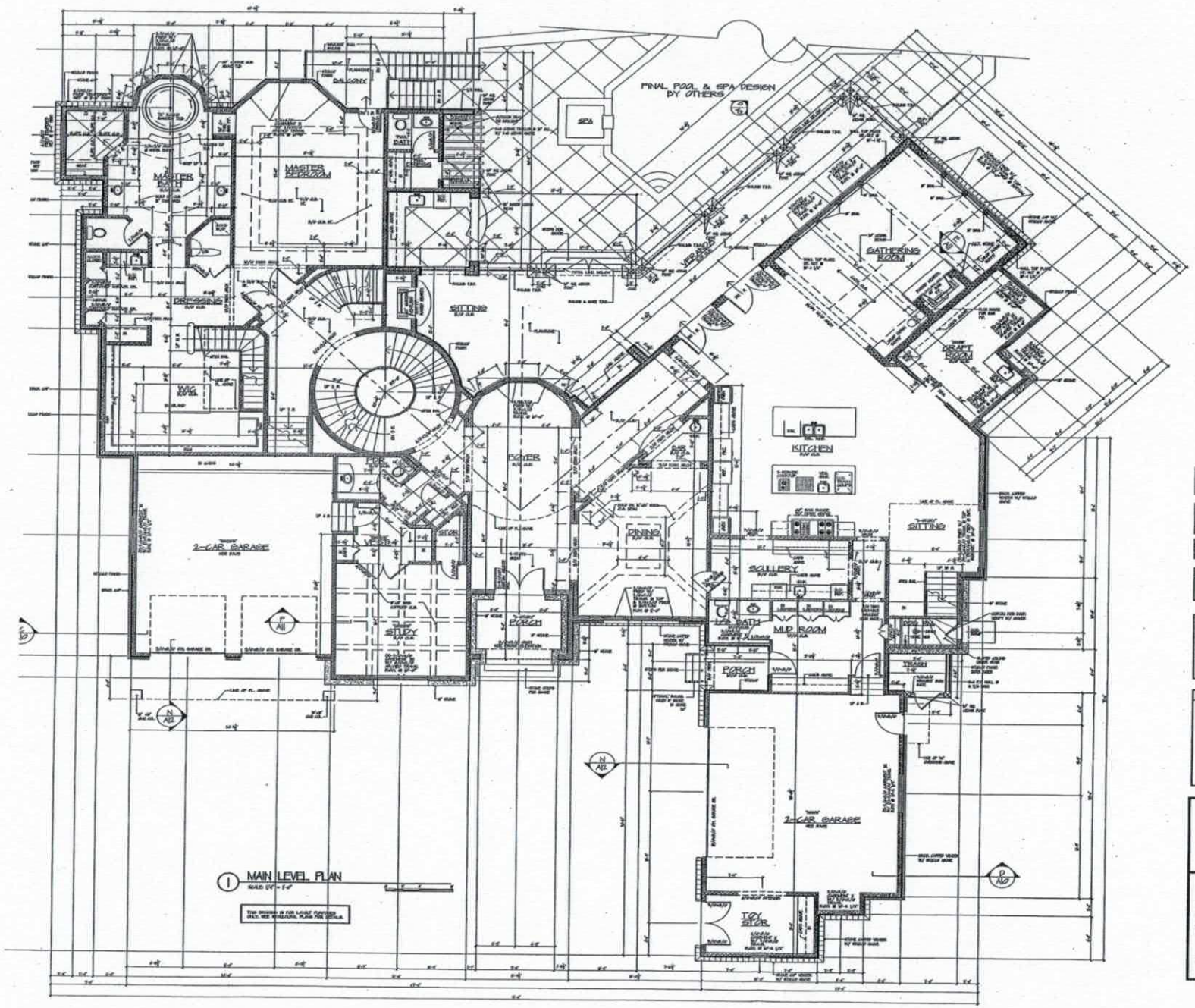
DAVID O'BRYAN
A Residential Design Company

6018 CHARDONNAY CIRCLE
KANNAPOLIS, NC 28081
704-796-2406

WWW.DAVIDOBRYAN.COM

SITE PLAN

ST1



1 MAIN LEVEL PLAN

SCALE: 1/4" = 1'-0"

SQUARE FOOTAGE:

MAIN LEVEL HEATED	4430	SQ. FT.
GROSS GARAGE	606	
MAIN GARAGE & TOY STOR.	512	
COVERED VERANDA	357	
FRONT & SIDE PORCH	36	

LEGEND

NEW RESIDENCE FOR:

ZIPADELLI FAMILY

LOT 1214 - SOUTH LONGFELLOW LANE
THE POINT - LAKE NORMAN, NC

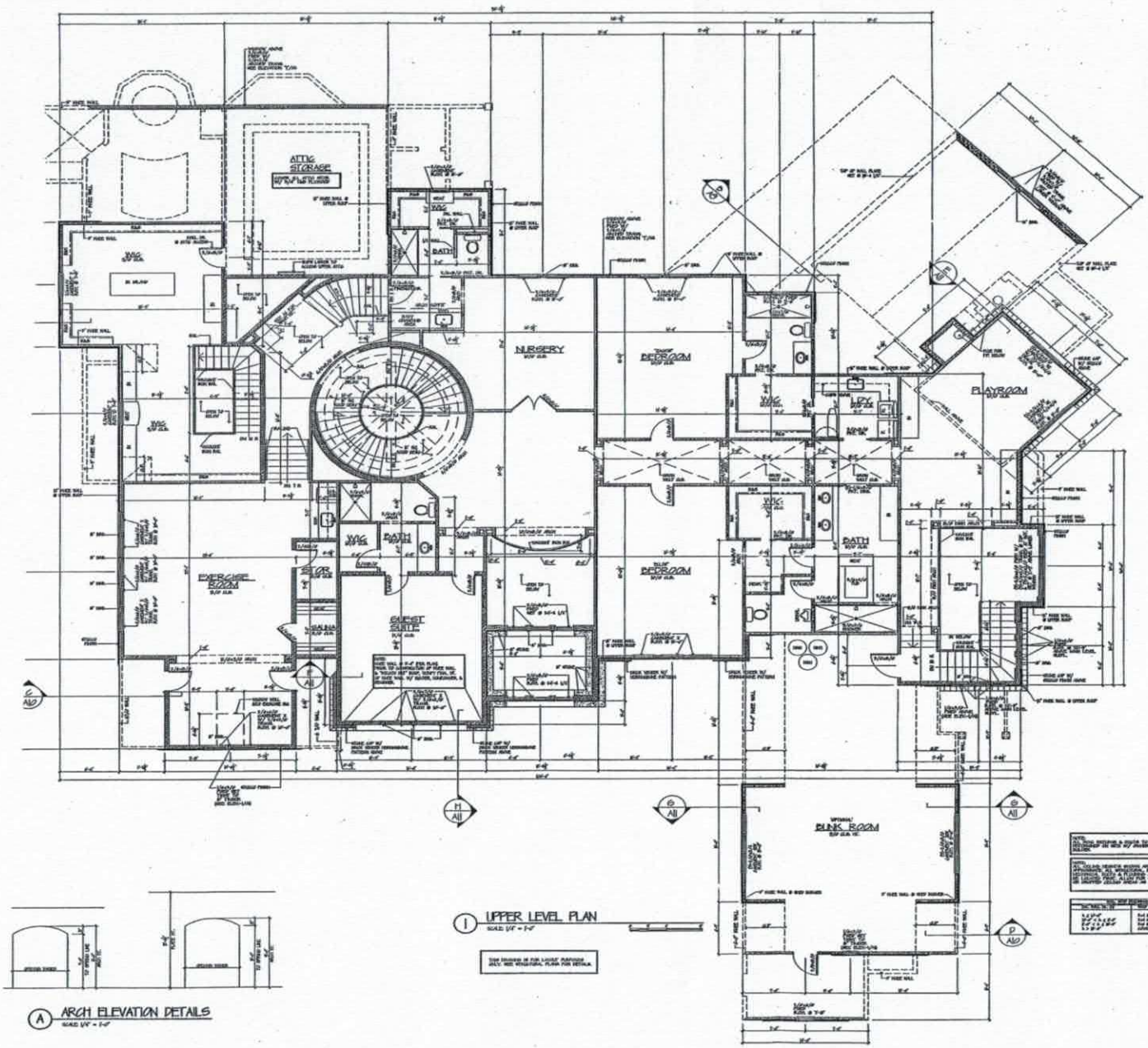
DAVID O'BRYAN
A Residential Design Company

6018 CHARDONNAY CIRCLE
CHARLOTTE, NC 28281
704-796-2406

WWW.DAVIDOBRYAN.COM

MAIN LEVEL PLAN

A6



1 UPPER LEVEL PLAN
SCALE: 1/4" = 1'-0"

A ARCH ELEVATION DETAILS
SCALE: 1/4" = 1'-0"

SQUARE FOOTAGE:

UPPER LEVEL HEATED	494 SQ. FT.
BUNK ROOM (OPTIONAL)	851

NEW RESIDENCE FOR:

ZIPADELLI FAMILY

LOT 1214 - SOUTH LONGFELLOW LANE
THE POINT - LAKE NORMAN, NC

DAVID O'BRYAN
A Residential Design Company

6018 CHARDONNAY CIRCLE
KANNAPOLIS, NC 28081
704-796-2406

WWW.DAVIDOBRYAN.COM

UPPER LEVEL PLAN

A7