3:00 BF

IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 138045

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

PIN # 4636013742

APPLICANT: Benitez Homes Inc APPLICANT ADDRESS: 184 N. Main St Waynesville, NC 28786

SITE ADDRESS: 257 Cove Creek Loop M'ville, NC PHONE: 828 246-9086 ALT. PHONE:

SITE DIRECTIONS: Brawley School Rd TL Isle of Pines TR Cove Creek on Rt. (past Community Pool

SUBDIVISION: Chesapeake Pointe SECTION: 3 LOT # 43 LOT AREA: 1.07Ac +.315Ac DESIGN FLOW: 480gpd L.T.A.R.: .25

Septic Tank	1000 (gal)	STB 194	Date 5-23-14	☒ New System ☐ Repair ☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms 4	Water Supply
Pump Tank	1000 (gal)	PT 27	Date 5-12-14	System Description: Pump-PM-25%Reduction		☐ Business	No. Persons 8	☐ Private
Pump Make	Liberty	Model 283	Serial #	Repair System Description: LPPPBPS		☐ Other	No. Employees	☐ Public
# Nitrification Fields	1	# Lines 6	Linear Ft: 480	Maintenance Agreement Required: ☐ YES ☒ NO		☐ Slab	☒ Crawl Space	☒ Community
Trench Width	36"	Max. Trench Bottom Depth	36"	Gravel Depth N/A	☐ GRAVITY ☒ PRESSURE	☐ Basement w/plumbing		☐ Basement w/o plumbing

Comments / Conditions: Note: Hug Property line with driveway

7/9/14 Checked tanks & lines MD

INITIAL SITE SKETCH

See approved plan by Michael Athanasa Assoc (dated 2-21-14) attached.

AS BUILT SKETCH

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. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☐ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☐ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: RS Date: 4-28-14 Installed by: Richard Abernathy

IMPROVEMENT PERMIT by: Maria H. Dotson RS Date: 3/11/14 OPERATION PERMIT by: Date: 7/31/14

AUTHORIZATION TO CONSTRUCT by: Maria H. Dotson RS Date: 3/11/14 Existing System Inspected by: Date:

Health Dept. Copy - WHITE Applicant (Final Approval) - YELLOW Applicant (Conditional Approval) - PINK

4636013742



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

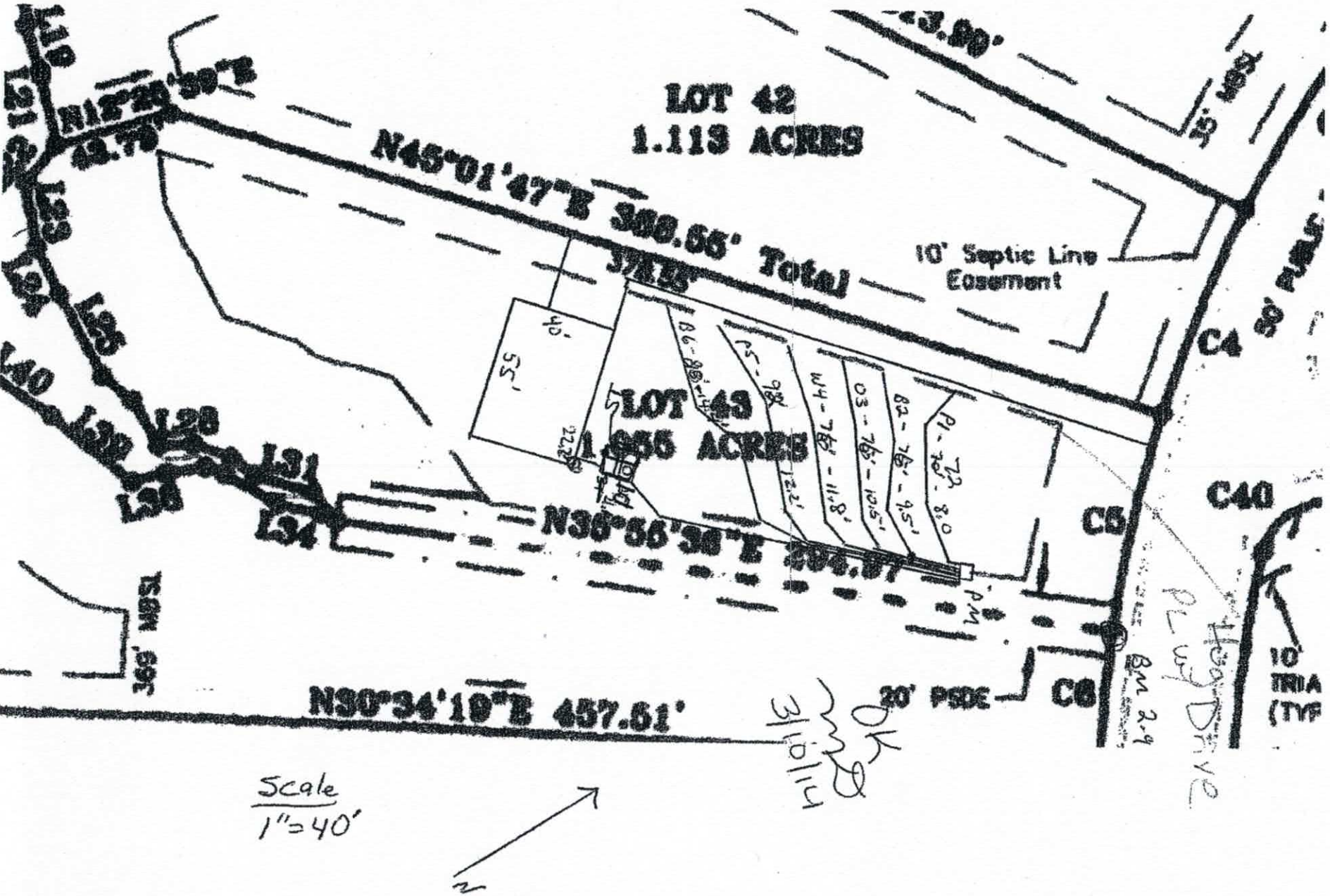
Reference: Chesapeake Pt., Lot 43, 257 Cove Creek Lp.
House Footprint: 55' x 40'
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Community well
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.25 GPD/FT2
~~**Proposed System Type:** 25% Reduction~~
Proposed Repair System Type: LPPPBPS
Distribution: Pressure Manifold
Flow per Tap: 4 @ 5.48 GPM, 2 @ 7.11 GPM
Tap Size and Material: 4 @ ½" SCH 80, 2 @ ½" SCH 40
System Flow: 36.14 GPM
Dosing Volume: 210 gallons
Pump Run Time: 5.8 minutes
Elevation Head: 18.1'
Friction Head: 3.4'
Pressure Head: 2'
Total Dynamic Head: 23.5'
Supply Line Length: 140'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"

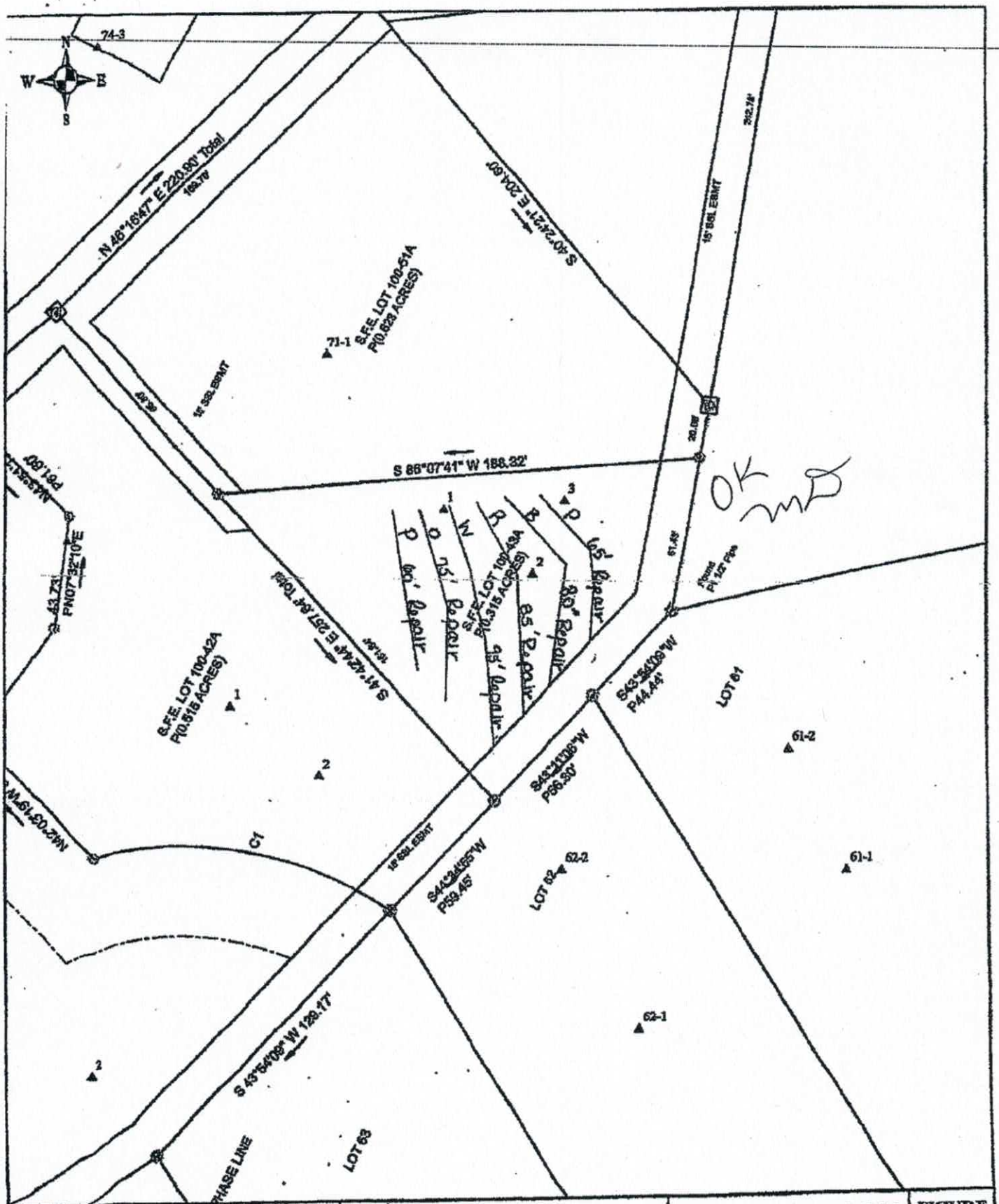
Line	Design Length	Actual Length	Elevation
Pink 1	**70' (SCH 80)**	**72'**	**8.0'**
Blue 2	**75' (SCH 80)**	**78'**	**9.5'**
Orange 3	**75' (SCH 80)**	**81'**	**10.5'**
White 4	**75' (SCH 80)**	**86'**	**11.8'**
Pink 5	**93' (SCH 40)**	**98'**	**12.2'**
Blue 6	**93' (SCH 40)**	**105'**	**14.4'**
Pink 7		65'	
Blue 8		80'	
Red 9		85'	
White 10		95'	

Line	Design Length	Actual Length	Elevation
Orange 11		75'	
Pink 12		60'	

Initial System: 480' **Repair System:** 460'
Pump Tank: 21.1' **House Corner:** 22.2' **Benchmark:** 2.9'

Comments:
This property currently has a LPPPBPS permitted. Michael Athanas & Associates has laid out a 25% reduction system. The off-site repair area will remain unchanged.


LOT 42
1.113 ACRES
N45°01'47"E 388.66' Total
10' Septic Line Easement
LOT 43
1.055 ACRES
N36°56'38"E 204.87'
N30°34'19"E 457.61'
20' PSDE
C4
C5
C6
C40
Hoag Drive
10' IRIA (TYP
Scale
1"=40'
3/10/14
DK



Scale: 1 inch equals 50 feet	S&ME	S.F.E. Lot 100-43A Chesapeke Point	FIGURE
Drawn by: JBP	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	Detailed, Scaled Site Plan	1
Reviewed by: KS		Iredell County, NC	
Date: December, 2006		S&ME Project #1588-04-011	