APPROVED MAY 13 2015

The Point 1B Lot 42 Fast Track System Specifications (5-6-15)

Artisan Custom Homes	
Number of Bedrooms	4
Basement or Crawl	**Basement/slab garage**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	3 @ 90 ft, centerfed (See Table and Site Plan)
Total Linear Feet	270
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. 120' of 2 " SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	30 gpm
Elevation head	Approx. 27'
Pressure head	3.0'
Friction head	approx. 3'
20% Contingency	Approx. 6.6'
Total Head	39.6'
Pump Requirements	30 gpm @ 40' of head To be verified by installer and ICHD after final tank placement
Maximum Dosing Volume	216 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	293 shown (270 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.**

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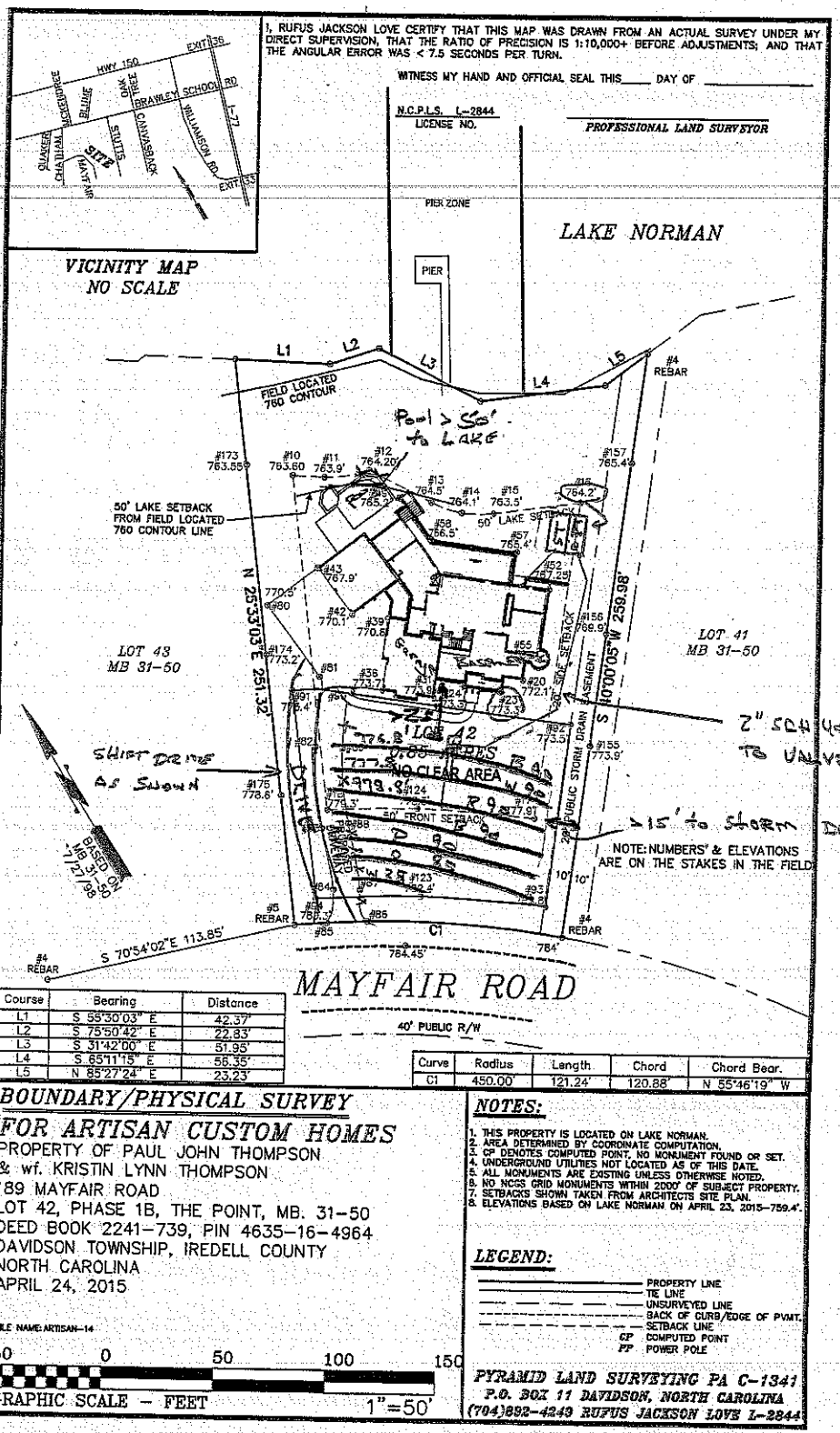
Artisan Custom Homes

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elevation* (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	System	red	LPPPBPS	90 - centerfed	778.8	20	20	1 per panel	5/32"
2	System	white	LPPPBPS	90 - centerfed	777.8	20	20	1 per panel	5/32"
3	System	blue	LPPPBPS	90 - centerfed	776.8	20	20	1 per panel	5/32"
				Total System: 270'		Total: 60	Total:60 (1 in each panel turned up)		

Tank		1500 gal (2 compartment)	
Pump Tank		1500 gal.	764.2
House	(FR)		773.3

Note: **Installer and ICHD shall verify all soils, 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 or Permit.
Use trench depth on ICHD IP.
*Elevations estimated from surveyed elevation points shown on site plan.

REV. 5-11-15



Course	Bearing	Distance
L1	S 55°30'03" E	42.37'
L2	S 75°50'42" E	22.83'
L3	S 31°42'00" E	51.95'
L4	S 65°11'15" E	56.35'
L5	N 85°27'24" E	23.23'

Curve	Radius	Length	Chord	Chord Bear.
C1	450.00'	121.24'	120.88'	N 55°46'19" W

BOUNDARY/PHYSICAL SURVEY

FOR ARTISAN CUSTOM HOMES

PROPERTY OF PAUL JOHN THOMPSON
& wf. KRISTIN LYNN THOMPSON
189 MAYFAIR ROAD
LOT 42, PHASE 1B, THE POINT, MB. 31-50
DEED BOOK 2241-739, PIN 4635-16-4964
DAVIDSON TOWNSHIP, IREDELL COUNTY
NORTH CAROLINA
APRIL 24, 2015

FILE NAME: ARTISAN-14

50 0 50 100 150
GRAPHIC SCALE - FEET 1"=50'

NOTES:

1. THIS PROPERTY IS LOCATED ON LAKE NORMAN.
2. AREA DETERMINED BY COORDINATE COMPUTATION.
3. CP DENOTES COMPUTED POINT, NO MONUMENT FOUND OR SET.
4. UNDERGROUND UTILITIES NOT LOCATED AS OF THIS DATE.
5. ALL MONUMENTS ARE EXISTING UNLESS OTHERWISE NOTED.
6. NO NCGS GRID MONUMENTS WITHIN 2000' OF SUBJECT PROPERTY.
7. SETBACKS SHOWN TAKEN FROM ARCHITECTS SITE PLAN.
8. ELEVATIONS BASED ON LAKE NORMAN ON APRIL 23, 2015=759.4'.

LEGEND:

PROPERTY LINE
TIE LINE
UNSURVEYED LINE
BACK OF CURB/EDGE OF PVMT.
SETBACK LINE
CP COMPUTED POINT
PP POWER POLE

PYRAMID LAND SURVEYING PA C-1341
P.O. BOX 11 DAVIDSON, NORTH CAROLINA
(704)892-4249 RUFUS JACKSON LOVE L-2844

APPROVED MAY 13 2015

The Point 1B - Lot 42 Septic Site Plan
Sime Project 1584-13-127B
May 6, 2015
* Site Plan must accompany written report
Date 5-6-15.

Rev. 5-11-15

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1

APPROVED MAY 13 2015

PROPERTY ID #:

COUNTY:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: ARTISAN Custom Homes
ADDRESS: 169 MAYFAIR
PROPOSED FACILITY: 4 BDR
LOCATION OF SITE: Point 1B Lot 42

APPLICATION DATE 5/6
DATE EVALUATED: 5/11/15
PROPOSED DESIGN FLOW (.1949): 480
PROPERTY SIZE:
PROPERTY RECORDED: 1998

WATER SUPPLY: Private (Public) Well Spring Other Comm. well
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	L ~10%	0-5	gr sdl	fr ss/sp	br				PS .3
		5-30	msBk C	fr ss/sp	red				
		30-48	msBk C-d	fr ss/sp	red f mica	Rock s			
					⊖	48	⊖	⊖	
2	L ~10%	0-4	gr sdl	fr ss/sp	br				PS .3
		4-29	msBk C	fr ss/sp	red				
		29-48	msBk C-d	fr ss/sp	red f	mica	SAP		
					⊖	48	⊖	⊖	
3	L ~10%	0-6	gr sdl	fr ss/sp	br				PS .3
		6-35	msBk C	fr ss/sp	rd				
		35-48	msBk C-d	fr ss/sp	rd f	mica +	SAP	rd	
					⊖	(48)	⊖	⊖	
4	L ~10%	0-4	gr sdl	fr ss/sp	br				PS .3
		4-37	msBk C	fr ss/sp	rd				
		37-48	msBk C-d	fr ss/sp	rd				
					⊖	(48)	⊖	⊖	

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	T-5	T-5
System Type(s)	PS	PS
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PBS
OTHER(S) PRESENT: must be approved by LCHD

COMMENTS: