

~~MICHAEL ATHANAS & ASSOCIATES~~
LICENSED SOIL SCIENTIST
361 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

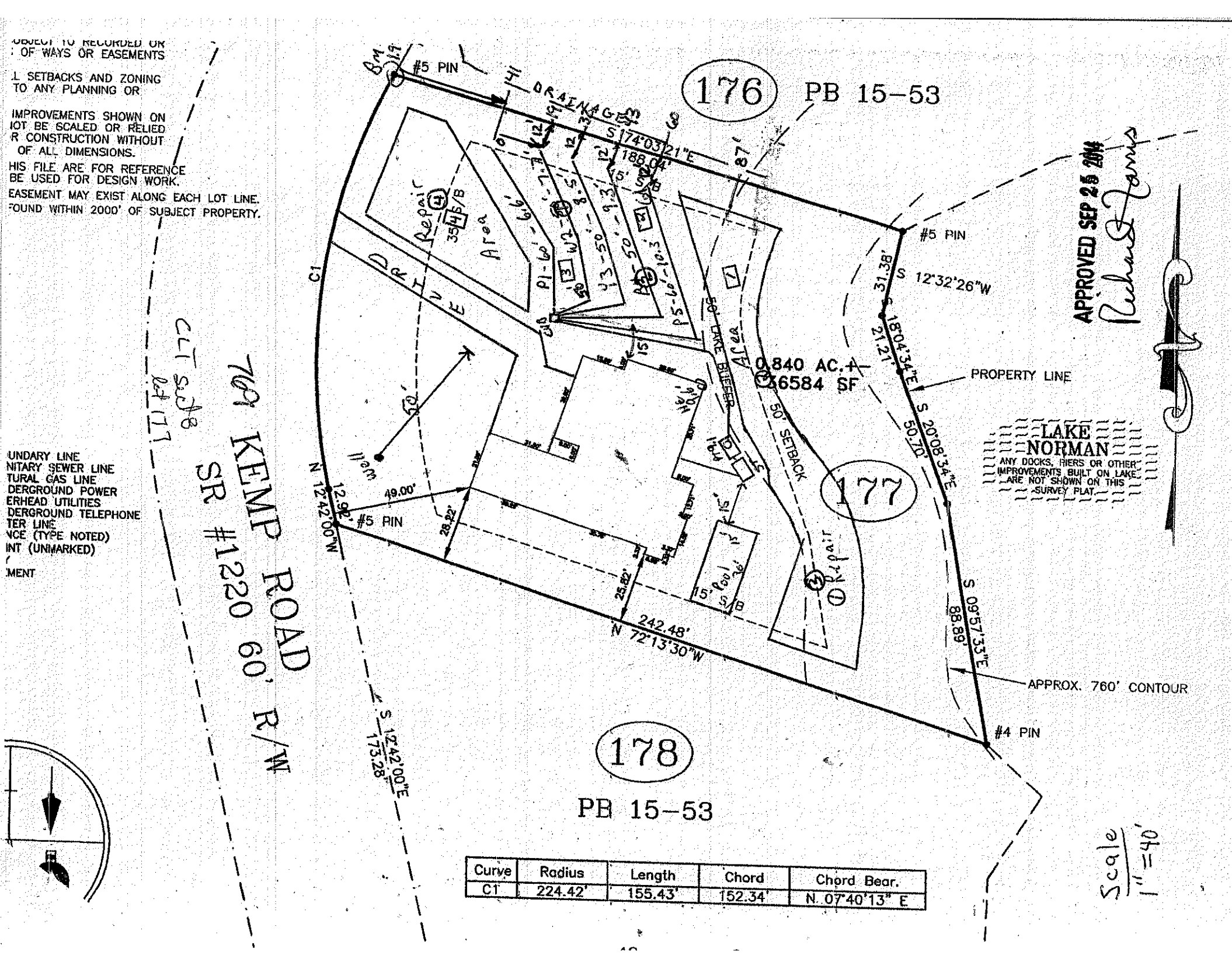
Reference: Data Sheet for 769 Kemp Rd. CL&T Sec. 8, Lot 177
House Footprint: See attached plan
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: PPBPS
Proposed Repair System Type: TSII Drip irrigation
Distribution: Low pressure-CVB
Flow per Orifice: 0.59 GPM
Orifice Size: 3/16"
System Flow: 35.99 GPM
Dosing Volume: 219.6 gallons
Pump Run Time: 6.1 minutes
Elevation Head: 7.5'
~~Friction Head:~~ 2.2'
Pressure Head: 2'
Total Dynamic Head: 11.7'
Supply Line Length: 90'
Septic/Pump Tank Size: 1000/1000 gallons
~~Proposed Trench Bottom:~~ 36"

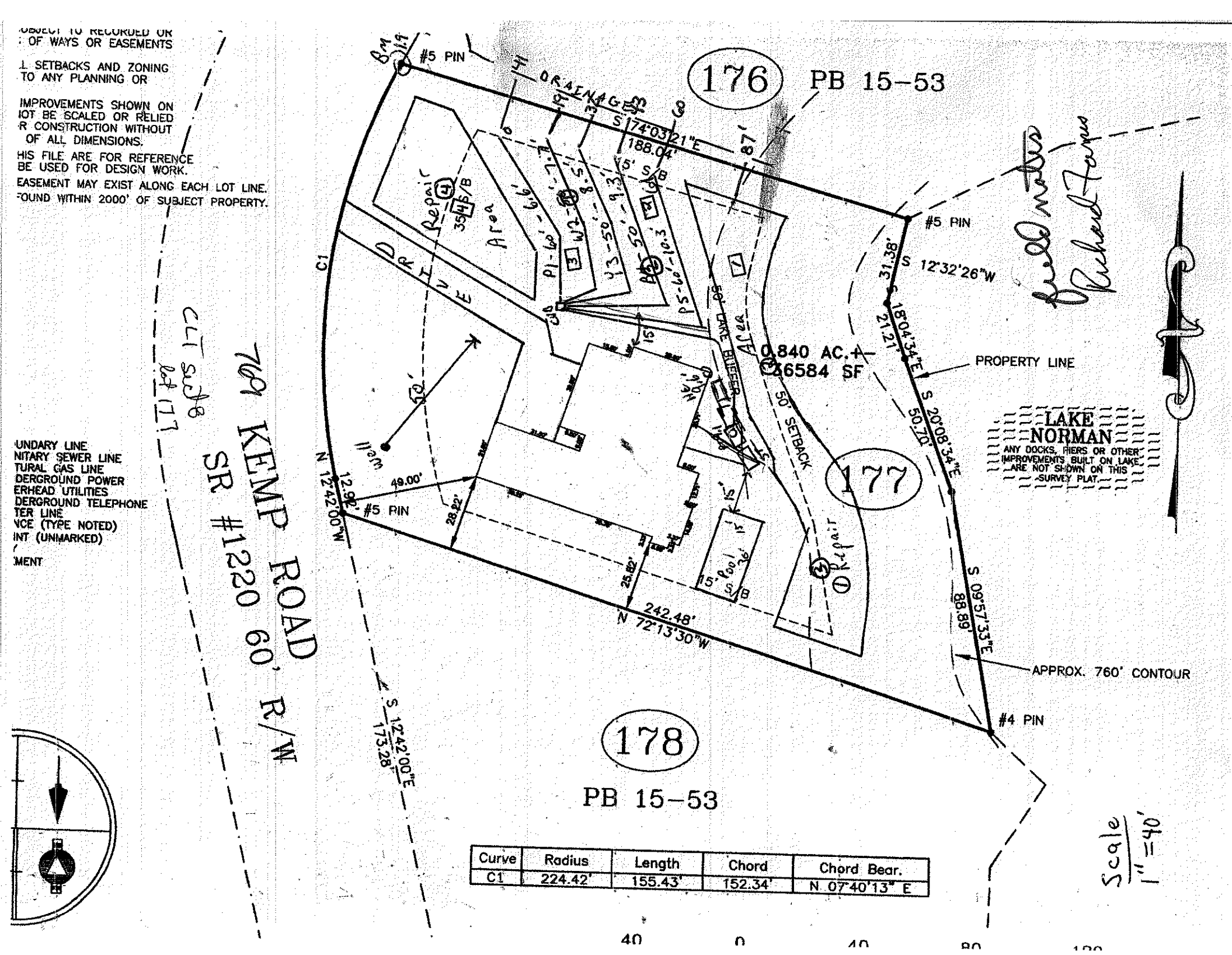
Line	Design Length	# of Panels	Actual Length	Elevation
Pink 1	60'	14	63' 61	6.6'
White 2	50'	11	56' 55	7.7'
Yellow 3	50'	11	55' 56	8.5'
Blue 4	50'	11	55' 55	9.3'
Pink 5	60'	14	62' 62	10.3'

Initial System: 270' **Repair System:** 5000+ FT2
Pump Tank: 9.1' **House Corner:** 9.6' **Benchmark:** 1.9'

Comments:

APPROVED SEP 25 2014
Richard Farris


OBJECT TO RECORDED OR
OF WAYS OR EASEMENTS
L SETBACKS AND ZONING
TO ANY PLANNING OR
IMPROVEMENTS SHOWN ON
NOT BE SCALED OR RELIED
R CONSTRUCTION WITHOUT
OF ALL DIMENSIONS.
HIS FILE ARE FOR REFERENCE
BE USED FOR DESIGN WORK.
EASEMENT MAY EXIST ALONG EACH LOT LINE.
FOUND WITHIN 2000' OF SUBJECT PROPERTY.
UNDARY LINE
NITARY SEWER LINE
TURAL GAS LINE
DERGROUND POWER
ERHEAD UTILITIES
DERGROUND TELEPHONE
TER LINE
NCE (TYPE NOTED)
INT (UNMARKED)
MENT
769 KEMP ROAD
SR #1220 60' R/W
CLT Sub
Lot 177
176
PB 15-53
#5 PIN
DRAINAGE
S 74°03'21"E
188.04'
87'
#5 PIN
S 12°32'26"W
31.38'
S 18°04'34"E
21.21'
S 20°08'34"E
50.70'
S 09°57'33"E
88.89'
APPROX. 760' CONTOUR
#4 PIN
PROPERTY LINE
0.840 AC.+/-
36584 SF
50' LAKE BUFFER
50' SETBACK
177
LAKE NORMAN
ANY DOCKS, PIERS OR OTHER IMPROVEMENTS BUILT ON LAKE ARE NOT SHOWN ON THIS SURVEY PLAT.
APPROVED SEP 25 2014
Repair Area
Repair
C1
DRIVE
50'
11.2'
49.00'
28.22'
#5 PIN
N 12°42'00"W
12.92'
S 12°42'00"E
173.28'
25.82'
N 72°13'30"W
242.48'
15'
178
PB 15-53
Curve | Radius | Length | Chord | Chord Bear.
C1 | 224.42' | 155.43' | 152.34' | N. 07°40'13" E
Scale 1" = 40'


SUBJECT TO RECORDED OR
OF WAYS OR EASEMENTS
L SETBACKS AND ZONING
TO ANY PLANNING OR
IMPROVEMENTS SHOWN ON
NOT BE SCALED OR RELIED
R CONSTRUCTION WITHOUT
OF ALL DIMENSIONS.
HIS FILE ARE FOR REFERENCE
BE USED FOR DESIGN WORK.
EASEMENT MAY EXIST ALONG EACH LOT LINE.
FOUND WITHIN 2000' OF SUBJECT PROPERTY.
UNDARY LINE
NITARY SEWER LINE
TURAL GAS LINE
DERGROUND POWER
ERHEAD UTILITIES
DERGROUND TELEPHONE
TER LINE
VCE (TYPE NOTED)
INT (UNMARKED)
MENT
769 KEMP ROAD
SR #1220 60' R/W
CLT Sub
Lot 177
176
PB 15-53
#5 PIN
S 74°03'21"E
188.04'
87'
DRAINAGE
15'
5' S/B
Repair
354 S/B
Area
P1-Lot-6.9'
P2-Lot-8.5'
P3-Lot-9.3'
P4-Lot-10.3'
50' LAKE BUFFER
50' SETBACK
0.840 AC.±
36584 SF
#5 PIN
S 12°32'26"W
31.38'
S 18°04'34"E
21.21'
PROPERTY LINE
S 20°08'34"E
50.20'
LAKE
NORMAN
ANY DOCKS, PIERS OR OTHER
IMPROVEMENTS BUILT ON LAKE
ARE NOT SHOWN ON THIS
SURVEY PLAT.
177
Repair
S 09°57'33"E
88.89'
APPROX. 760' CONTOUR
#4 PIN
N 72°13'30"W
242.48'
25.82'
28.22'
49.00'
N 12°42'00"W
12.92'
#5 PIN
S 12°42'00"E
173.28'
178
PB 15-53
Curve | Radius | Length | Chord | Chord Bear.
C1 | 224.42' | 155.43' | 152.34' | N 07°40'13" E
Scale
1" = 40'
40 0 40 80

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

PROPERTY ID #: 4626066650
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Jasper Bldrs APPLICATION DATE
ADDRESS: 181 W Statesville Ave. Mooresville NC DATE EVALUATED:
PROPOSED FACILITY: 4 bdrm PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 0.84 AC
LOCATION OF SITE: 769 Kemp Rd. CL&T Sec 8 Lot 177 PROPERTY RECORDED: 10/050/1977
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)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
P 1	LS 10%	0-27	R C SBK	FR SS SP	N/A	49"	N/A	N/A	PS 0.3
		27-49	R CL WSBK	FR SS SP					
P 2	LS 10%	0-40	R C SBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		40-48	R CL WSBK	FR SS SP					
P 3	LS 10%	0-32	R C SBK	FR SS SP	N/A	52"	F-C SAP	N/A	PS 0.3
		32-52	R CL WSBK	FR SS SP					
P 4	LS 10%	0-20	Br CL WSBK	FR SS SP	N/A	70"	N/A	N/A	PS 0.3
		20-55	R C SBK	FR SS SP					
		55-70	R CL WSBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	810 FT2	5000+ FT2
System Type(s)	PPBPS	DRIP
Site LTAR	0.3	0.1

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: M A & Associates
OTHER(S) PRESENT:

APPROVED SEP 25 2014
Richard Farris

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4626066650
DATE OF EVALUATION: _____
COUNTY: IREDELL

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
AB 1	LS 8%	0-6	Br SCL WSBK	FR SS SP	N/A	48"	Few SAP	N/A	PS 0.3
		6-30	R C SBK	FR SS SP					
		30- 48	R CL WSBK	FR SS SP					
AB 2	LS 10%	0-5	Br SCL WSBK	FR SS SP	N/A	30+"	N/A	N/A	PS 0.3
		5-30+	R C SBK	FR SS SP					

APPROVED SEP 25 2014
Richard Torres

COMMENTS: _____

DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY I.D.#:
PROPERTY RECORDED:
COUNTY:

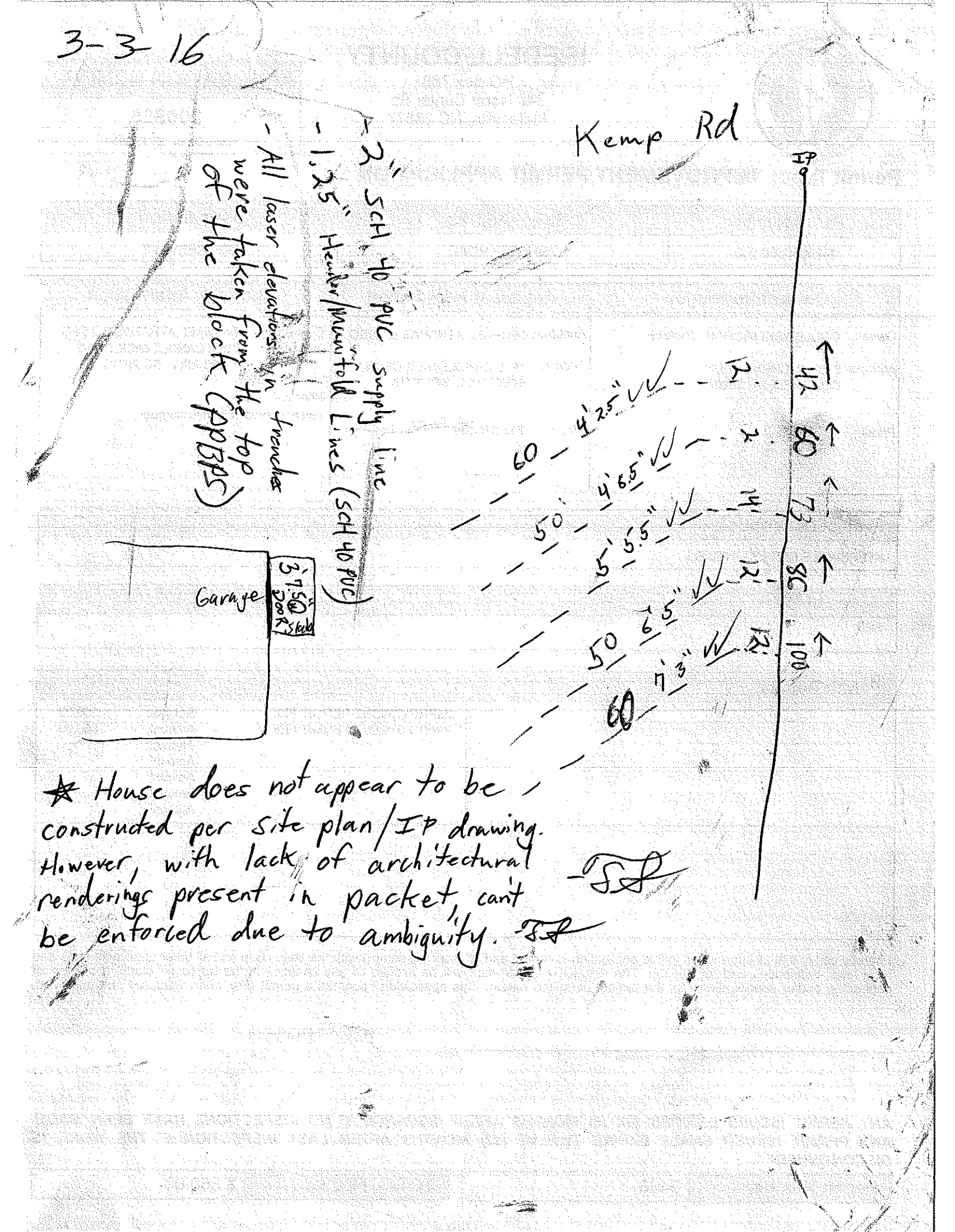
APPLICANT: Jasper Bldrs 181 W. Statesville Ave Mooresville NC 28115
DATE OF EVALUATION: 9/18/14
eval by Richard Farris

PROFILE #	.1940 LANDSCP POS. (%)	HORIZON DEPTH (IN.)	.1941 STRUCTURE/TEXTURE	.1941 MINERALOGY/ CONSISTENCE	.1942 WETNESS COND.	.1944 RESTRICT HORIZONS	.1948 CLASS OF HORIZ	1943/ 1956 SAPRLT CLASS.	HORIZON LTAR
1	side 9%	0-12	CL SB	SS SP fr SE					.3
		12-36	C SB	SP fr SE					
		36-48	C SAP WBK	fr SE					
2	8% side	0-6	CL SB	SSSP fr SE					.3
		6-12	C SB	SP fr SE					
		12-48	C SB/w SB	SP fr SE					
3	9% side	0-6	CL SB	fr SE					.3 conv drop .15
		6-30	C SB	fr/fi SE					
		30-48	C SAP WBK	fi SE					
4	5% side	0-30	CL SB	fr SE					.3 conv .15 drop
		30-48	C SB	fi SE					

COMMENTS: Single wide MH previously on lot from '97 or before until 2013 seen on '97 GIS and from tax office info but cant find info on existing STS located. 2" existing well PVC casing drilled 5/11/76 depth 110' 24' static water 85' casing depth (from drillers tag)

Richard Farris

3-3-16



- 2" SCH 40 PVC supply line
- 1.25" Header/Manifold Lines (SCH 40 PVC)
- All laser elevations in trenches were taken from the top of the block (TPBBS)

★ House does not appear to be constructed per site plan/IP drawing. However, with lack of architectural renderings present in packet, can't be enforced due to ambiguity.