

1/8/2008

duponbj

Groundwater and Wastewater Services File Imaging Project

May 2007

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CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: **5692B** Tax Number: **199-371-03**

- The IMPROVEMNET PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement: ☒ Yes ☐ No ☐ Partial Basement

Primary Wastewater System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☐ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☐ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other
☒ Innovative or Experimental:

0.275 Long-term acceptance rate (GPD/ft^2)	**600** Max gallons/day wastewater flow	**1636** Absorption Area (ft^2)	**9** Trench spacing (min. on centers) (ft)
Serviced by private well: ☐ Yes ☒ No	**1500** Gallon septic tank	**558** Total trench length (ft)	**24** Maximum trench depth (in) (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions.)
5 Bedrooms in residence	**1500** Gallon pump tank	**na** Depth of stone (in)	

Any surface water present: **No** Type: Minimum separation distance (ft):

Additional conditions: **Install according to plans on file submitted by Toney Jacobs and Associates.**
Lot #36

Repair Area System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☒ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other
☐ Innovative or Experimental:

1090 Absorption Area (ft^2) **364** Total trench length (ft)	**na** Depth of stone (in)	**8** Trench spacing (min. on centers) (ft)	**24** Maximum trench depth (in)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HELTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. The approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

*** No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department.

*** This Improvement permit is transferable.

DENR Authorized Agent — Date: 3/15/05

Owner/Agent Signature — Date: 3 15 05

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, NC 28202
(704) 336-5103

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH, AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: PO 199-371-03
Lot #: 36
File #: 5692B
Code: 1

ACS

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Date Evaluated: 10/27/2004
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 1.0a inv.
Location of Site: Withers Cove Road
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] 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 (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-3	GR/CL	FR/SEXP/SS/SP	>50" TO SOIL WETNESS	50+	N/A	NONE	PS, IV
		3-50	SBK/ABK/C	FI/SEXP/S/P					.275GPD/FT^2
2	"	0-3	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48+	"	"	"
		3-48	SBK/ABK/C	FI/SEXP/S/P					
3	LS, 10	0-5	GR/CL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49+	"	"	"
		5-49	SBK/ABK/C	FI/SEXP/S/P					
4	"	0-5	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	"	"	"
		5-48	SBK/ABK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.275GPD/FT^2	.275GPD/FT^2

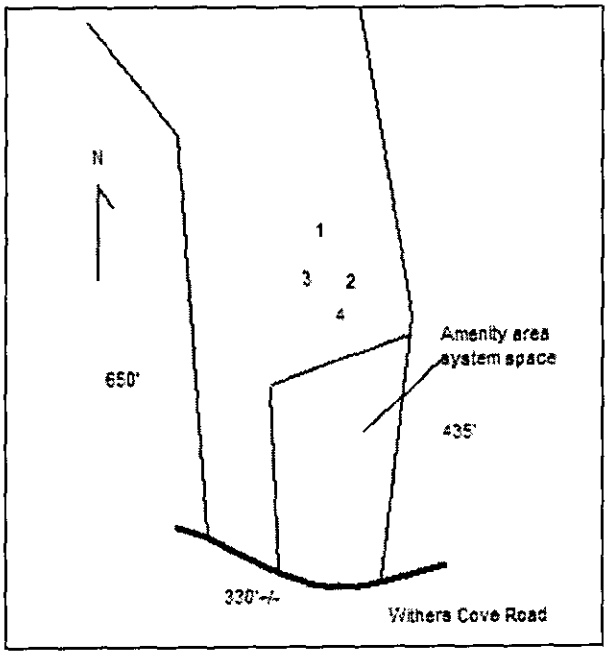
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 10/28/2004, W. R. Marlin
Others Present: J. Buck

COMMENTS:
100% repair

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Food Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay Loam		PR-Prismatic
T-Terrace		CL-Clay Loam		
FP-Flood Plain		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



FEE: Credit for 3rd Lot exempt

DATE: 8/18/04

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

[ ] CRT

TYPE APPLICATION: [X] NEW SYSTEM [ ] EXPANSION/ ALTERATION OF EXISTING SYSTEM [ ] REPAIR OF EXISTING SYSTEM

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

FILE #: 3632B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 199-371-03

STREET ADDRESS:

SUBDIVISION OR MOBILE HOME PARK NAME: The Sanctuary at Lake Wylie, LLC

LOT NUMBER: 36

TYPE OF BUILDING (CHECK ONE):

- [ ] SINGLE MOBILE HOME(S)
- [ ] DOUBLE WIDE (D)
- [X] HOUSE (H)
- [ ] MODULAR HOME (M)
- [ ] MULTIPLE FAMILY (U)
- [ ] OTHER (O)

TOWNSHIP (CHECK ONE):

- [✓] 0 MECKLENBURG
- [ ] 1 CHARLOTTE
- [ ] 2 DAVIDSON
- [ ] 3 CORNELIUS
- [ ] 4 PINEVILLE
- [ ] 5 MATTHEWS
- [ ] 6 HUNTERSVILLE
- [ ] 7 MINT HILL

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS: 5

NUMBER OF OCCUPANTS:

CLOSING DATE

FOUNDATION FOR RESIDENCE:

- [ ] WITHOUT BASEMENT
- [ ] ON SLAB
- [ ] CRAWL SPACE
- [X] WITH BASEMENT /PLUMBING
- [ ] WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: [ ] YES [✓] NO TYPE:

WATER SUPPLY (CHECK ONE):

- [ ] COMMUNITY (C)
- [ ] SHARED WELL (S)
- [✓] MUNICIPAL (M)
- [ ] OTHER 'SPRINGS' (O)
- [ ] PRIVATE WELL (P)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES	[ ] YES [✓] NO	WELL, SPRINGS OR WATERLINES	[ ] YES [✓] NO
EXISTING WASTEWATER SYSTEMS	[ ] YES [✓] NO	DESIGNATED WETLANDS	[ ] YES [✓] NO
EASTMENTS OR RIGHT-OF-WAYS	[✓] YES [ ] NO		

PROPERTY OWNER:

NAME: (LAST) The Sanctuary at Lake Wylie, LLC (FIRST) (MI)

ADDRESS: 10933 Ballantyne Commons Pkwy

CITY: Charlotte STATE: NC ZIP: 28277

DAYTIME PHONE: (704) 544-0201 ext 226

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) Jacobs (FIRST) Tonya (MI) C

DAYTIME PHONE: 704 663-6905

m 704 582 9219

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Tonya C Jacobs, CPSS (Agent) DATE: 8-18-04

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

TONEY C. JACOBS & ASSOCIATES, INC.

Consulting Soil Scientists

Licensed by the North Carolina Board for Licensing of Soil Scientists
Certified by the American Registry of Certified Professionals in Agronomy, Crops and Soils

168 Broadbill Drive
Mooresville, NC 28117
Phone (704) 663-6905
Fax (704) 662-9845 E-mail jacobs@i-america.net

February 2, 2005

To: Mr. David Cornelius, R.S.
Mecklenburg County Env. Health Dept.

From : Toney C. Jacobs
Paul G. Penninger

RE: Request for an Improvement Permit for lot 36 at The Sanctuary:
MCHD file # 5692B

Crescent Resources is requesting an Improvement Permit for lot **36** at The Sanctuary Subdivision for a **5** bedroom, basement home. Mr. Bill Marlin of the MCHD evaluated the soils on 10-28-04 and determined the septic area is PS at an 0.275 gpd/ft^2 LTAR. Toney C. Jacobs and Associates, Inc. has flagged a 25% reduction septic system and PPBPS repair on the lot, as shown on the attached sketch.

We understand a building permit cannot be issued until your office issues an Authorization to Construct (ATC). The buyer of the lot will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, we understand the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on lot prior to obtaining the ATC from the MCHD.**

Tri-County Wastewater (TCWW) is under contract to supply maintenance services for each septic system installed at The Sanctuary. TCWW will have a list of preferred septic contractors for the subdivision and will also have requirements for the installation of the septic systems that are greater that the state requirements. It will be the responsibility of TCWW to enforce any requirements above state requirements or the conditions on the Improvement Permit or ATC.

Please review the attached system sketch and design specifications for the Improvement Permit. Please call if you have and questions, comments, or corrections.

Design Specifications for Lot 36 at

The Sanctuary, MCHD File # 5692B

System Type:	primary: repair:	pressure manifold , 25% reduction LP PPBPS
Daily design flow:		600 gpd
Septic tank size:		1500 gal. (2 compartments)
Pumping tank size:		1500 gal.
Effluent loading rate:		0.275 gpd/ft^2 for primary and repair
Number and length of laterals:		6 @ 93 ft. 25% reduction
Flow rate through the system:		33 gpm –use ½ in. SCH 80 taps with 2 ft. head pressure on pressure manifold (5.5 gpm per tap)
Pump requirements:		to be calculated by installer or owners agent when specific house and pump tank location are available
Dosing volume:		approx. 270 gal. – 2.2 doses/day at design flow
Depth of water pumped per dose:		calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Check valve:		YES
Siphon break hole:		No

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: PO 199-371-03
Lot #: 36
File #: 5692B
Code: 1

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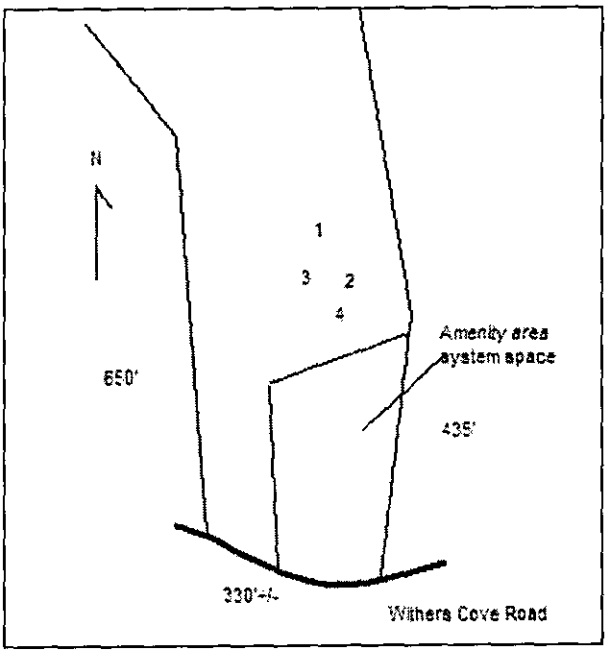
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	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



35
205,624 sq.ft.
4.72 ac.

36
440,528 sq.ft.
10.11 ac.

1.36 ac.

15+00
16+00
17+00
18+00
19+00
20+00
20+19.76

600
610
620

DRIVE

L=116.88'
R=280.00'

N08°23'42"W
650.15'

40' SIDE SETBACK (TYP.)

100' FRONT SETBACK (TYP.)

N06°33'23"E
314.71'

N02°16'03"E
441.74'

N02°13'17"E
158.40'

R=264.41'

N55°23'12"E
177.88'

93' R
93' O
93' W
93' U
93' R
93' O
93' U
190'
130'
125'

Pressure manifold

5' SIDE SETBACK

L=137.33'
R=174.85'

N15°02'45"W
156.09'

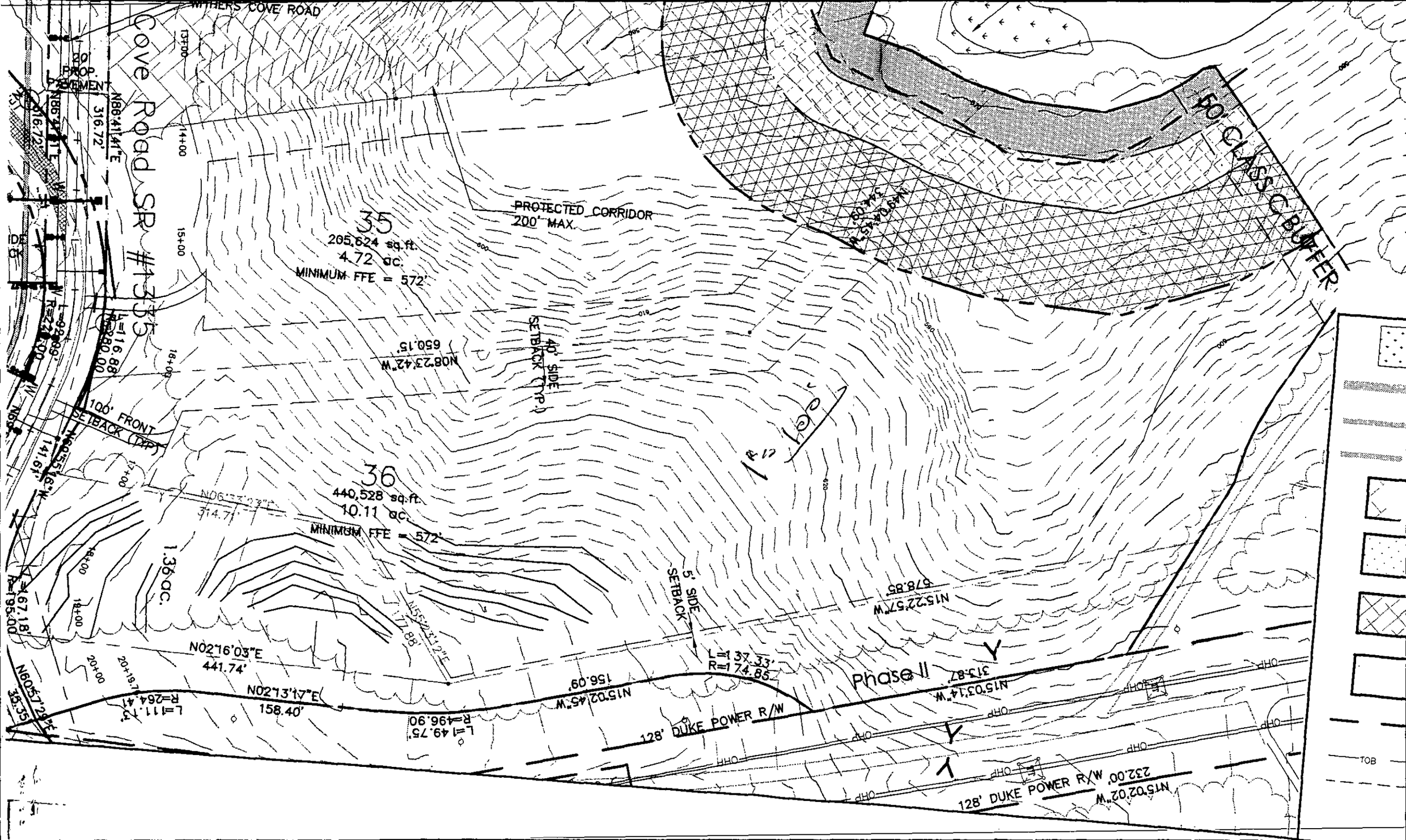
POWER R/W

2" SCH 40 PVC SUPPLY LINE

St. R.T.

100'

N


WITHERS COVE ROAD
Cove Road SR #1355
20' PROP. PAVEMENT
N86°41'41"E 316.72'
N86°41'41"E 316.72'
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
20+19.72
35
205,624 sq.ft.
4.72 ac.
MINIMUM FFE = 572'
PROTECTED CORRIDOR
200' MAX.
60' CLASS C BUFFER
40' SIDE SETBACK (TYP.)
N08°23'42"W 650.15'
L=116.88'
R=280.00'
100' FRONT SETBACK (TYP.)
N69°55'18"W 141.61'
36
440,528 sq.ft.
10.11 ac.
MINIMUM FFE = 572'
N06°33'03"E 314.71'
1.36 ac.
L=67.18'
R=195.00'
N60°57'29"E 35.35'
N02°16'03"E 441.74'
N02°13'17"E 158.40'
L=111.73'
R=264.41'
L=149.75'
R=496.90'
N15°02'45"W 156.09'
N55°24'11"E 177.88'
5' SIDE SETBACK
L=137.33'
R=174.85'
N15°22'57"W 578.85'
N15°03'14"W 313.87'
Phase II
128' DUKE POWER R/W
N15°02'02"W 232.00'
128' DUKE POWER R/W
OHP
TOB