IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 219710

IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / ...G SYSTEM

PIN # 4635818343

APPLICANT: Charles Capato APPLICANT ADDRESS: 202 Lakeshore Dr. Mooresville, NC 28117

SITE ADDRESS: 218 Lakeshore Dr Mooresville NC 28117 PHONE: 7043637030 ALT. PHONE:

SITE DIRECTIONS: Langtree Rd TR Lake Shore house on right (lake side), easement on left

SUBDIVISION: Lakeview Shores SECTION: 2 LOT # 3 LOT AREA: DESIGN FLOW: 480gpd L.T.A.R.: .25

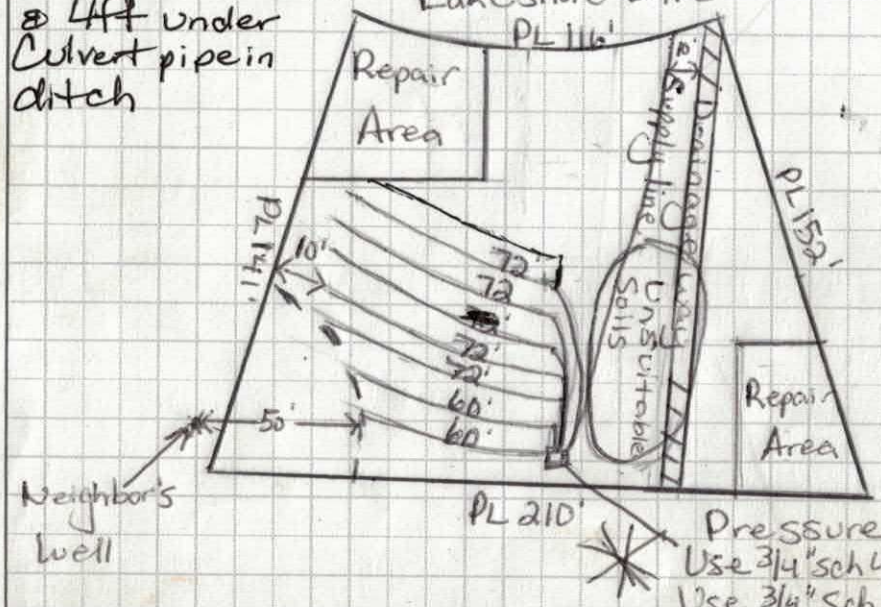
Septic Tank	1000	(gal)	STB	760	Date	1-27-17	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms	4	Water Supply
Pump Tank	1000	(gal)	PT	363	Date	1-22-17	System Description:	Pump-PM-25% Reduction			☐ Business	No. Persons	8	☒ Private
Pump Make	Liberty	Model	PL100		Serial #		Repair System Description:	Pump-LP-PBBPS			☐ Other	No. Employees		☐ Public
# Nitrification Fields	1	# Lines	8		Linear Ft:	480ft	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☒ Crawl Space		☐ Community
Trench Width	36"	Max. Trench Bottom Depth	18"		Gravel Depth	N/A		☐ GRAVITY	☒ PRESSURE		☐ Basement w/plumbing	☐ Basement w/o plumbing		

Comments / Conditions: Must keep Drainfield Shallow. Install at least 50ft from any well. Divert Stormwater away from Drainfield. Tank 10½' off House

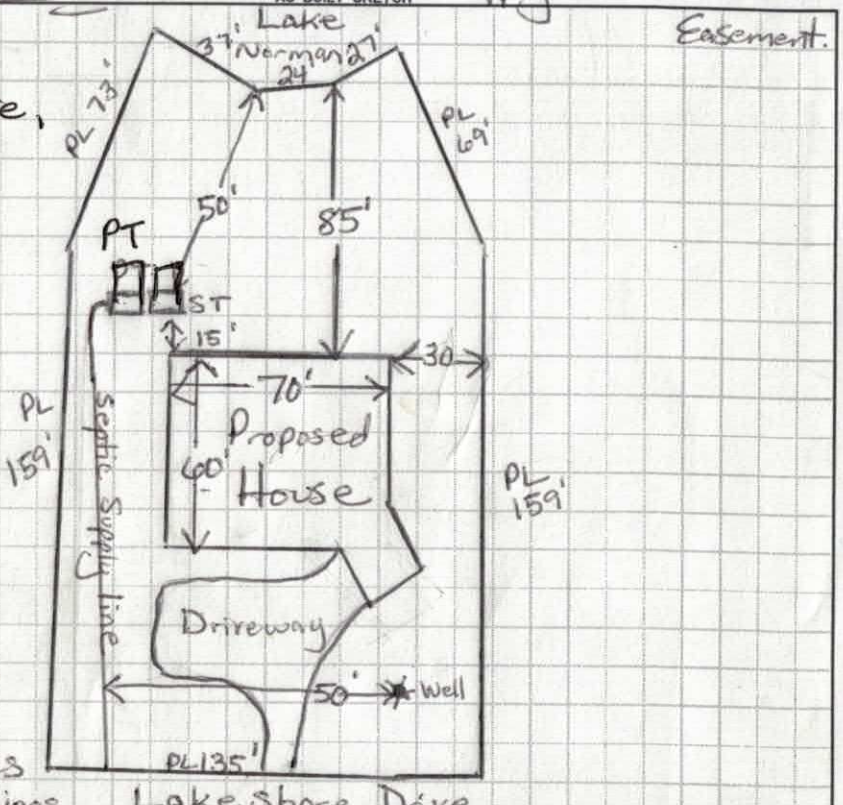
Keep Supply line at least 50ft from any well & 10ft from 2ft cut
** Need letter from DOT for Supply line. Also need recorded Easement for Supply line & Drainfield

INITIAL SITE SKETCH

*PT 363 5/3/17 Checked tanks
5/4/17 Checked drainlines installed 8 lines
5/8/17 Supply line buried 3' under neighbor's drive, 6ft under road & 4ft under Culvert pipe in ditch



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: Date: 8/10/16 Installed by: Speciality Septic

IMPROVEMENT PERMIT by: Maria H. Dotson RS Date: 8/18/16 OPERATION PERMIT by: Maria H. Dotson Date: 6/28/17

AUTHORIZATION TO CONSTRUCT by: Maria H. Dotson RS Date: 8/23/16 Existing System Inspected by: Date:

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

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

PROPERTY ID #: _____
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Charles Caputo APPLICANT: _____
ADDRESS: 218 Lake Shore APPLICATION DATE: _____ DATE EVALUATED: 9/1/16
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): 480gpd PROPERTY SIZE: _____
LOCATION OF SITE: 218 Lake Shore (Easement) PROPERTY RECORDED: _____
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) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	All 5%	0-10	Brw SCL	wSBK					PS .3 L40"
		10-40"	Brw to R/Brw C/CL	m-wSBK SS,SP,SE,FR					>40" .25
		40"-48"	Rd/Brn, C/SC	wSBK SS,SP,SE,P,FR					
			some yellow/brw mottles						
2	All 4%	0-9"	Brw SCL	wSBK SS,SP,SE,P,FR					PS .3
		9-48"	Brw C/CL	m-wSBK SS,SP,SE,P,FR					
3	All 4%	0-38"	Brw SCL	wSBK FR,SS,SP,SE,P					PS .3 to .35
		38-48"	Brw CL	wSBK FR,SS,SP,SE,P					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% Reduct	PPBPS
Site LTAR	.25	.3-.25

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

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet: 1 of 2
PROPERTY ID #:
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Charles Caputo
ADDRESS: 218 Lake Shore Easement
PROPOSED FACILITY:
PROPOSED DESIGN FLOW (.1949): 480 gpd
LOCATION OF SITE: 218 Lake Shore (Easement)
APPLICATION DATE
DATE EVALUATED: 7/28/16
PROPERTY SIZE:
PROPERTY RECORDED:
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) .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	5%	0-8	Brw	SCL GR SS, SP, SExp, FR					PS .25
		8-48"	Brw C/CL	M-w SBK SS, SP, SExp, FR					
2	5%	0-4	Brw	SCL GR, FR					PS .25 to 32" U > 32"
		4-32	Brw C/SC	SBK-ABK					
			Chroma 2 @	32"					
3	4%	0-4	Brw	SCL GR, FR					PS U > 30"
		4-30	Brw C/SC	SBK/ABK					
		30-40	Yel/Brw C	with Chroma 2 Mottle					
				30"					
4	4%	0-4	Brw	SCL GR FR					U @ 18"
		4-18"	Brw	C/SC w SBK SS, SP, SExp					
		18"	Chroma 2	Mottles					
				18"					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% Reduct	PPBPS
LTAR	.25	.3-.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (1948): PS
EVALUATED BY: Maria Dotson
OTHER(S) PRESENT:

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3	EXP (Expansive)	CR (Crumb)
DS (Debris Slump)		L (Loam)				GR (Granular)
FP (Flood Plain)						SBK (Subangular Blocky)
FS (Foot Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		ABK (Angular Blocky)
H (Head Slope)		SiCL (Silty Clay Loam)				PL (Platy)
L (Linear Slope)		CL (Clay Loam)				PR (Prismatic)
N (Nose Slope)		SCL (Sandy Clay Loam)			MOIST	WET
R (Ridge)		SiL (Silt Loam)			VFR (Very Friable)	NS (Non-sticky)
S (Shoulder Slope)					FR (Friable)	SS (Slightly Sticky)
T (Terrace)	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FI (Firm)	S (Sticky)
		SiC (Silty Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		C (Clay)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
		O (Organic)				SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

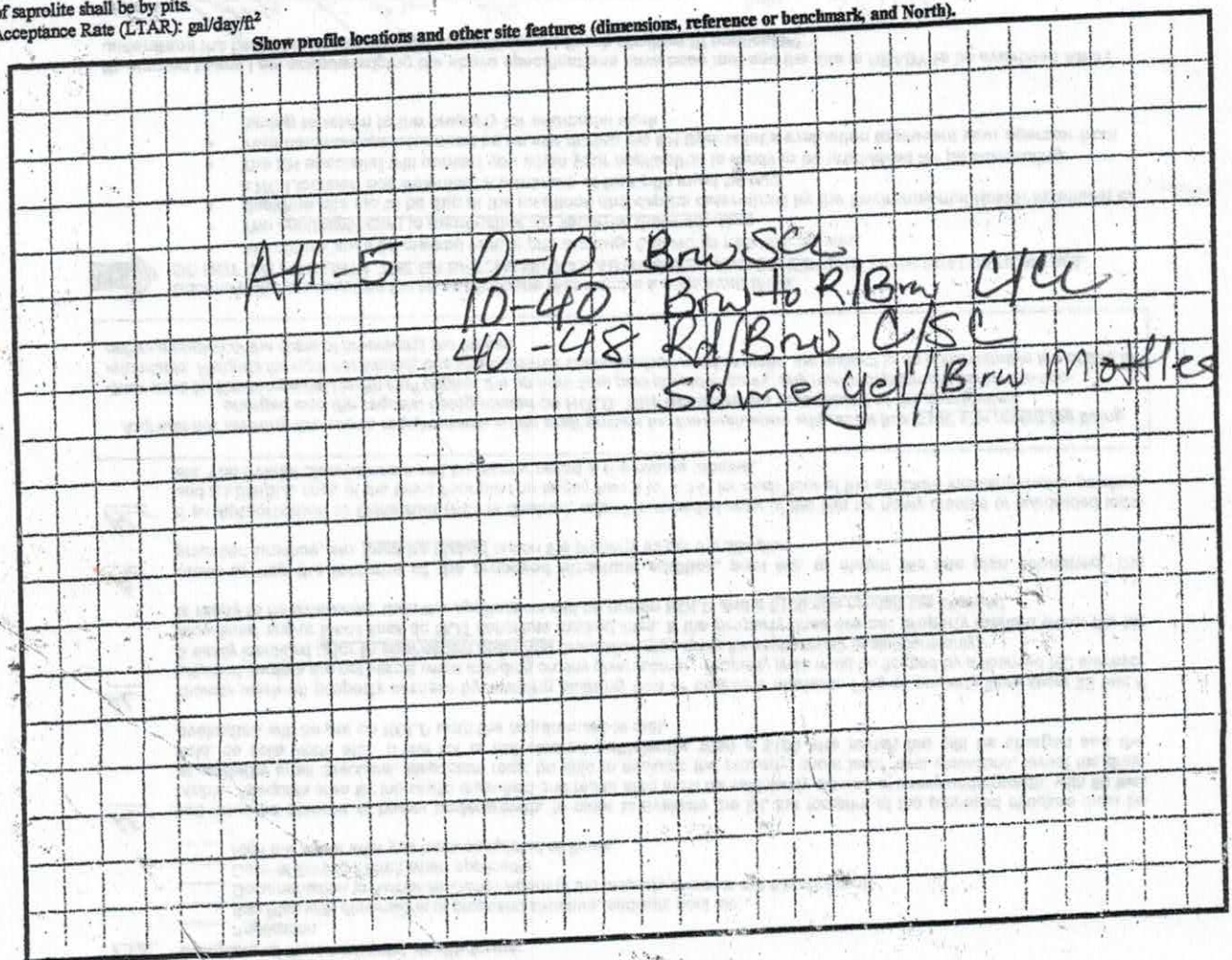
*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

NOTES

HORIZON DEPTH — In inches below natural soil surface
DEPTH OF FILL — In inches from land surface
RESTRICTIVE HORIZON — Thickness and depth from land surface
SAPROLITE — S(suitable) or U(unsuitable)
SOIL WETNESS — Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION — S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.
Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (######)
Review (#####)

RECEIVED JUN 2 1 2016

IREDELL COUNTY HEALTH DEPARTMENT

Paid $500.00

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Paid $700.00 8-30-16 # 219710

Application For:

(X) Septic Improvement Permit (X) New Well Permit ( ) Authorization to Construct ( ) Well Repair Permit ( ) Existing System Inspection ( ) Well Abandonment ( ) Septic System Repair

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.

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 an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: Charles Caputo **Address:** 202 Lake Shore Dr **Phone:** 704 363 7030

Owner Name: Chuck Caputo/218 Lake Shore LLC **Address:** 202 Lake Shore Dr. **Phone:** 704 363 7030

Property Information:

Street Address: 218 Lake Shore Dr. Mooresville NC 28117

Subdivision Name: Lakeview Shores **Section/Phase:** 52 **Lot Number:** 5

Driving Directions: 77 south to exit 31, take a right on Longfork then right on Lake Shore

Site Development Information: ***(check or complete ALL that apply)***

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: _____
( ) Swimming Pool
( ) Other Addition/Structure: _____

(X) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development:

Type of Business: _____
Square Footage of Building: _____
Maximum Number of Employee: _____
Maximum Number of Seats/Beds/Other: _____

Water Supply:

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

Desired Septic System Type: ***(you may rank in order of preference)*** **Year existing system installed:** _____

(X) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

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. industrial) 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.

Signature: _____ 6/20/16

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

Letter of Transmittal

Spectrum Building Company, Inc. Date: 8/1/16 Job Number Caputo
517 Alcove Rd suite 201, Mooresville, NC 28117 Phone (704) 660-1044 Fax (704) 660-1077 Contract # _____

Attention: James Burgess RE: 218 Lake Shore Drive, Mooresville NC 28117

To: James Burgess
124 Prison Camp Road
Statesville, NC 28625

WE ARE SENDING YOU X Attached ☐ Under separate cover via _____ the following items:

Copies	Date	Number	Description
3	8/1/16		Right of Way Encroachment Agreement
3	8/1/16		Permission Letters from Neighbor
3	8/1/16		Boring detail and encroachment exhibit.

RECEIVED
AUG - 4 2016
District 2 Engineer 12th Division
By: _____

THESE ARE TRANSMITTED AS CHECKED BELOW:

x For approval
☐ For your use
☐ As requested
☐ For review and comment
☐ FOR BIDS DUE _____ 2016 at _____ AM/PM

☐ Approved as submitted
☐ Approved as noted
☐ Returned for corrections
☐ _____

☐ Resubmit ____copies for approval
☐ Submit___copies for distribution
☐ Return ___corrected prints

REMARKS Please call me if you need anything else. 704-363-7030 or ccaputo@spectrumbld.com

COPIES TO *pf* SENT BY Charles Caputo

G:\FORMS\TRNSMTL.DOC

Transportation

PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

August 11, 2016

Carmin C. Caputo
218 Lakeshore Drive
Mooresville, NC 28117

County: Iredell

Subject: Right of Way Encroachment Agreement I_49(0444)

Route: SR1216

Mr. Caputo:

Attached is an approved Right of Way Encroachment Agreement covering the installation of: 60' of 3" dia. PVC pipe within 32' of 6" dia steel encasement pipe.

The encroaching party shall comply with all applicable state and federal environmental regulations, and shall obtain all necessary state and federal environmental permits, including but not limited to, those related to sediment control, storm water, wetlands, streams, endangered species and historical sites.

NOTE: Installation should be placed as close to the right of way limits as possible.

NOTE: Excavation within 1000 feet of a signalized intersection will require notification by the party of the second part to the Division Traffic Engineer at telephone number 704-480-5423. All traffic signal or detection cables must be located prior to excavation.

It would be appreciated if you would advise the District Office at (704) 380-6040 at least forty-eight (48) hours prior to the date of beginning work on installation of this encroachment. Furthermore, it will be necessary for you to notify the District Office in writing when work is completed on this installation.

The Department of Transportation has 60' right of way on these roads but will not be responsible for claim damages by any property owner by reason of the installation.

Respectfully yours,

Mark E Stafford / JRC

Mark E. Stafford, P.E.
Twelfth Division Engineer

Nothing Compares™

State of North Carolina | Department of Transportation | Division 12, District 2
124 Prison Camp Road, Statesville, NC 28625
(704) 380-6040 T

By: John R. Cook, CPM
District Supervisor
Division 12, District 2

JRC:jb

cc: File

NCDOT Encroachments

Information Required with Each Encroachment

Note: Items in Red to be completed by NCDOT Personnel

County: Iredell

Is the Encroachment within a TIP limit? ☐ Yes ☒ No
If yes, include the TIP Number.

Approval Date: 8-11-16
Agreement Date: 8-11-16 (Usually the same as the above Approval Date)

Is this installation under a Blanket Agreement?
☐ Yes ☒ No

Agreement Form (Ex: RW 16.1, RW 16.2, etc.): RW16.1

Brief Description (Include Linear Footage, Size, Installation Method, Location, Aerial or Buried as applicable):
60' of 3" dia. PVC pipe within 32' of 6" dia steel encasement pipe

Division Encroachment Number: 49(0444)
Utility Unit Encroachment Number:

Does the submittal include the NPDES (National Pollutant Elimination System) form? ☐ Yes ☒ No
If yes:
Encroaching party certifies NPDES Stormwater Permit is not required ☐
Encroaching party certifies NPDES Stormwater Permit is required, the permit has been obtained, and a Stormwater Prevention Plan (SPPP) is in place. ☐

Type of Installation (Ex: sewer, water, telecommunications, gas, etc.): sewer

Encroaching Party (Include additional party in case of 3 Party Agreement): Carmin C. Caputo

Route (Interstate, US, NC and SR): SR1216

STANDARD SPECIAL PROVISIONS FOR ENCROACHMENTS

All installations shall be placed as close to the right of way limits as possible.

1. Notify the District Engineer's office at least 3 days prior to commencing work and again upon completion of work. (704) 380-6040

2. Traffic control devices and procedures shall be installed to ensure public safety and shall comply with the latest edition of the Manual on Uniform Traffic control Devices and the N.C. Department of Transportation's Standards and Specifications for Roads and Structures.

3. Contact the appropriate Utility Company(ies) involved and make satisfactory arrangements to adjust any utilities in conflict with the proposed work prior to construction.

4. Any drainage structure disturbed or damaged shall be restored to its original condition as directed by the District Engineer. Drainage structures shall not be blocked with excavation, construction or other materials. In addition, any drainage pattern that is altered must be repaired / modified. This work must meet NCDOT standards, and result in proper and adequate drainage of disturbed area. This includes but is not limited to culverts, ditches, shoulders, or drainage structures. The District Office is to be notified of any changes made.

5. Trenching, bore pits and/or other excavations shall not be left open or unsafe to pedestrian or vehicular traffic overnight or during holidays and weekends and shall comply with all O.S.H.A regulations and requirements.

6. All fill areas/backfill shall be compacted to 95% density in accordance with AASHTO T99 as Modified by NCDOT and placed in 4-6" layers with Pneumatic Tamp. All material to a depth of 8.0" below the finished surface of the sub-grade shall be compacted to a density equal to at least 100.0% density in accordance with AASHTO T99 as modified by NCDOT. The sub-grade shall be compacted at a moisture content which is approximately the required to produce the maximum density indicated by the above test method. The contractor shall dry or add moisture to the sub-grade when required to provide a uniformly compacted and acceptable sub-grade.

7. Proper temporary and permanent measures shall be installed and maintained for the duration of the encroachment to control erosion sedimentation in accordance with local, State and Federal regulations.

8. Materials and workmanship shall conform to the N.C. Department of Transportation's Standards and Specifications for Road and Structures and Roadway Standard Drawings.

9. Strict compliance with The Policies and Procedures for Accommodating Utilities on Highway Rights of Way shall be required.

10. Silt basins shall be removed as soon as possible and shall not infringe on the roadway or components of the roadway including required clear recovery areas or any other areas traversable by vehicles.

11. It is the encroaching party's responsibility to determine if any permits are required by other local, state and federal governments to perform the work described in the encroachment and to secure such permits before any construction begins.

12. Any work requiring equipment or personnel within 5.0' of the edge of the travel lane shall require a lane closure in accordance with NCDOT Standards and Specifications for Roads and Structures and Roadway Standard Drawings manuals and the latest edition of the MUTCD or supplements thereof.

13. No material or equipment storage will be allowed within 30.0' of the edge of the travel lane without the permission of the Engineer. Absolutely no material or equipment storage will be allowed within 15.0' of the edge of the travel lane.

14. NCDOT does not guarantee the right of way on these roads, nor will it be responsible for any claim for damages brought by any property owner by reason of this installation.

15. If any blasting is required, the maximum peak particle velocity shall be limited to 4.0 in./sec. As measured at the closest structure extremity.

16. Any changes to the encroachment must be submitted in writing to the Engineer for review and comment. Failure to request changes may result in cancellation of the encroachment agreement.

17. All disturbed right of way monuments shall be reset by a NC licensed Surveyor in accordance with NCDOT Standards and Specifications for Roads and Structures and Roadway Standard Drawings manuals.

18. No lane closures will be allowed prior to 8:30 AM or after 4:30 PM (time changes can be approved on a case by case basis). No lane closures will be allowed on Sundays or on State observed holidays (without prior approval).

19. All manhole lids, water valves/meters and applicable concrete encasements shall be set flush with the natural ground elevation and should be located so as to minimize interference with highway drainage. All fire hydrants must be located a minimum 5.0' behind the ditch line.

20. All longitudinal installations of proposed encroachments shall be located as close to the outside edge of the Right of Way and as far away from the outside edge of the nearest travel lane as possible to the satisfaction of the District Engineer.

21. All manholes and vaults shall be of a design approved by the State Design Services Engineer. A list of previously "Approved Manholes and Vaults" may be obtained from the State Design Services Engineer.

22. All driveways altered during construction shall be at a minimum returned to a state comparable with the condition of the driveways prior to construction.

23. An Executed copy of this Encroachment agreement will be present at the construction site at all times during construction. If safety or traffic conditions warrant such an action, NCDOT reserves the right to further limit, restrict or suspend operations within the right of way.

24. All roadway signs which are removed due to construction shall be reinstalled as soon as possible.

25. Ingress and egress shall be maintained to all business and dwellings affected by the project. Special attention shall be paid to police and fire stations, fire hydrants and hospitals.

26. Vegetative cover shall be established on all disturbed and damaged areas to the satisfaction of the District Engineer in accordance with the attached Seeding and Mulching guidelines. The N.C. Department of Transportation reserves the right to modify the guidelines for unique situations or as recommended by the Area Roadside Environmental Engineer.

SEEDING AND MULCHING GUIDELINES

MATERIAL	May 1 – Aug. 31	Sept. 1 – April 30
Kentucky 31 Fescue	100 Lb./Ac.	100 Lb./Ac
OR		
Hard Fescue	15 Lb./Ac.	15 Lb./Ac.
Fertilizer	500 Lb./Ac.	500 Lb./Ac.
Limestone	4000 Lb./Ac.	4000 Lb./Ac.
Rye grain	----------	25 Lb./Ac.
German Millet	25 Lb./Ac.	----------
Mulch with grain straw	40 bales/Ac.	40 bales/Ac.

NOTES

A. Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application is adjusted to provide the same amount of nutrients as the 10-20-20 analysis.

B. Hard Fescue may be substituted for Kentucky 31 Fescue and Vice Versa however see the above table as the rate of application for the two materials is different.

C. Seeding and mulching operations shall be adapted to various weather or soil conditions as necessary for the successful establishment and growth of the grasses and legumes as directed by the Engineer.

27. The encroaching party shall comply with all applicable federal, state, and local environmental regulations, and shall obtain all necessary federal, state, and local environmental permits, including but not limited to, those related to sediment control, storm water, wetland, streams, endangered species, and historical sites.

28. Excavation within 1000 feet of a signalized intersection will require notification by the party of the second part to the Division Traffic Engineer at telephone number 704-480-5423. All traffic signal or detection cables must be located prior to excavation.

29. With directional boring, under no condition shall jetting alone or wet boring with water of utility pipelines be allowed. Directional boring using jetting with a Bentonite (or equivalent material) slurry is approved at a minimum depth of ten (10) feet below the pavement surface (fifteen feet below the surface of controlled access roads) and five (5') below any ditch line. Any parallel installation utilizing the directional boring shall be made at a minimum depth of three (3') feet (cover) below the ground surface except where the parallel installation crosses a paved roadway. The tip of the drill string shall have a cutter head. Any changes shall be submitted to the District Engineer for approval prior to construction. An overbore shall not be more than two (2") inches greater than the diameter of the pipe or encasement will be considered. If the encroachment agreement includes a statement signed and sealed by a North Carolina Registered Professional Engineer, indicating that an over bore in excess of two (2") inches of the pipe or encasement will arch and no damage will be done to the pavement or subgrade.

30. Any open cut pavement must be repaired / replaced with an NCDOT approved Bituminous material within 48 hours. NCDOT will not be responsible for damages incurred to the traveling public where the pavement has been cut.

31. That the party of the second part agrees to provide traffic control devices, lane closures, road closures, positive protection and/or any other warning or positive protection devices necessary for the safety of motorists and workers during construction and any subsequent maintenance. This shall be performed in conformance with the latest NCDOT Roadway Standard Drawings and Standard Specifications for Roads and Structures and Amendments or Supplements thereto. When there is no guidance provided in the Roadway Standard Drawings and Specifications, comply with the Manual on Uniform Traffic Control Devices for Streets and Highways and Amendments or Supplement thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first part.

32. As part of any utility encroachment where structures will be installed above ground, the following conditions shall apply. "Any and all components of this utility encroachment that extend vertically beyond ground elevation must be provided with a 3 foot radius that is regularly maintained or kept clear of vegetation for the purpose of visibility. This includes poles, guy wires and anchors, pedestals, cabinets, etc. All utility owners are to place visible sleeves on all guy wires. Failure to comply with this condition will forfeit the utility owner's right to reimbursement for damages from NCDOT resulting from future mowing operations."

33. When pavement cuts are allowed by the District Engineer's Office on roadways where pavement overlays/replacements are not scheduled within 1 year, the following general information shall be adhered to UNLESS otherwise approved by the District Office:
    - Pavements shall be cut full depth and removed.
    - After trench work is complete, the edges of the existing pavement along the trench should be recut a minimum of 1' wider on each side of the trench; or if the pavement is undermined, to 1' beyond the undermined portion and remove the pavement. The design section stated below would be placed in those areas.
    - The pavement design section for pavement repair shall be:
    - 11.0" B25.0C or B25.0B Asphalt Concrete Base Course (accomplished in 2 lifts minimum)
    - Mill the entire area 1.5" starting at 15' back from the edge of the final pavement cut.
    - Overlay entire area with 2.0" S9.5C or S9.5B Asphalt Concrete Surface Course (13" of asphalt total).

SPECIAL PROVISION

WORK ZONE TRAFFIC CONTROL QUALIFICATION AND TRAINING PROGRAM

Effective July1, 2010, all flagging operations within NCDOT Right of Way require qualified and trained Work Zone Flaggers.

Effective July 1, 2011, qualified and trained Work Zone Traffic Control Supervisors will be required on significant projects.

Training for this certification is provided by NCDOT approved training sources and by private entities that have been pre-approved to train themselves. If you have questions, contact our web site at www.ncdot.org/wzte, or contact Stuart Bourne, P.E. with NCDOT Work Zone Traffic Control Unit at (919) 662-4338 or sbourne@ncdot.gov.

Jim Reid

226 Lake Shore Dr.• Mooresville, NC 28117• Phone: 704-309-8319•

Date: July 27, 2016

Carmin Caputo
218 Lake Shore Dr.
Mooresville, NC 28117
[Address 3]

Dear, Carmin

As sole owner of lot 2 Lake View Shores know as 226 Lake Shore Drive I Jim Reid grant you permission to encroach upon my property with the septic line leading form the house on lot 3 to the septic field on lot 19. I understand the line will run parallel to the road from the South West Corner to the South East corner of my property. I will expect all landscaping, concrete or other items disturbed during the installation will be repaired to preexisting condition.

Sincerely,

Jim Reid

ROUTE 1216 PROJECT Caputo House COUNTY OF IREDELL

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

-AND-

Carmin C Caputo

218 Lake Shore Drive, Mooresville, NC 28117

RIGHT OF WAY ENCROACHMENT AGREEMENT

PRIMARY AND SECONDARY HIGHWAYS

THIS AGREEMENT, made and entered into this 11 day of August 20 16 by and between the Department the

of Transportation, party of the first part; and Carmin C Caputo

party of the second part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as

Route(s) 1216 , located 315 feet east of intersection of SR 1216 and SR 3004

with the construction and/or erection of: 60 feet of 3-inch dia. PVC pipe with 32 feet of 6-inch dia. steel encasement pipe

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the installation, operation, and maintenance of the above described facility will be accomplished in accordance with the party of the first part's latest POLICIES AND PROCEDURES FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS-OF-WAY, and such revisions and amendments thereto as may be in effect at the date of this agreement. Information as to these policies and procedures may be obtained from the Division Engineer or State Utility Agent of the party of the first part.

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway, nor obstruct nor interfere with the proper maintenance thereof, to reimburse the party of the first part for the cost incurred for any repairs or maintenance to its roadways and structures necessary due to the installation and existence of the facilities of the party of the second part, and if at any time the party of the first part shall require the removal of or changes in the location of the said facilities, that the said party of the second part binds himself, his successors and assigns, to promptly remove or alter the said facilities, in order to conform to the said requirement, without any cost to the party of the first part.

That the party of the second part agrees to provide during construction and any subsequent maintenance proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first part.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

That the party of the second part agrees to restore all areas disturbed during installation and maintenance to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any installation or maintenance operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the construction site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

During the performance of this contract, the second party, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

a. Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U. S. Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

b. Nondiscrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the

grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

c. Solicitations for Subcontracts, including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

d. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department of Transportation or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Department of Transportation, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

e. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to,

(1) withholding of payments to the contractor under the contract until the contractor complies, and/or
(2) cancellation, termination or suspension of the contract, in whole or in part.

f. Incorporation of Provisions: The contractor shall include the provisions of paragraphs "a" through "f" in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department of Transportation or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Department of Transportation to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

R/W (161) : Party of the Second Part certifies that this agreement is true and accurate copy of the form R/W (161) incorporating all revisions to date.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

DEPARTMENT OF TRANSPORTATION

BY: _____ /by: _____
DIVISION ENGINEER

ATTEST OR WITNESS:

_____

_____

_____

Second Party

INSTRUCTIONS

When the applicant is a corporation or a municipality, this agreement must have the corporate seal and be attested by the corporation secretary or by the empowered city official, unless a waiver of corporate seal and attestation by the secretary or by the empowered City official is on file in the Raleigh office of the Manager of Right of Way. In the space provided in this agreement for execution, the name of the corporation or municipality shall be typed above the name, and title of all persons signing the agreement should be typed directly below their signature.

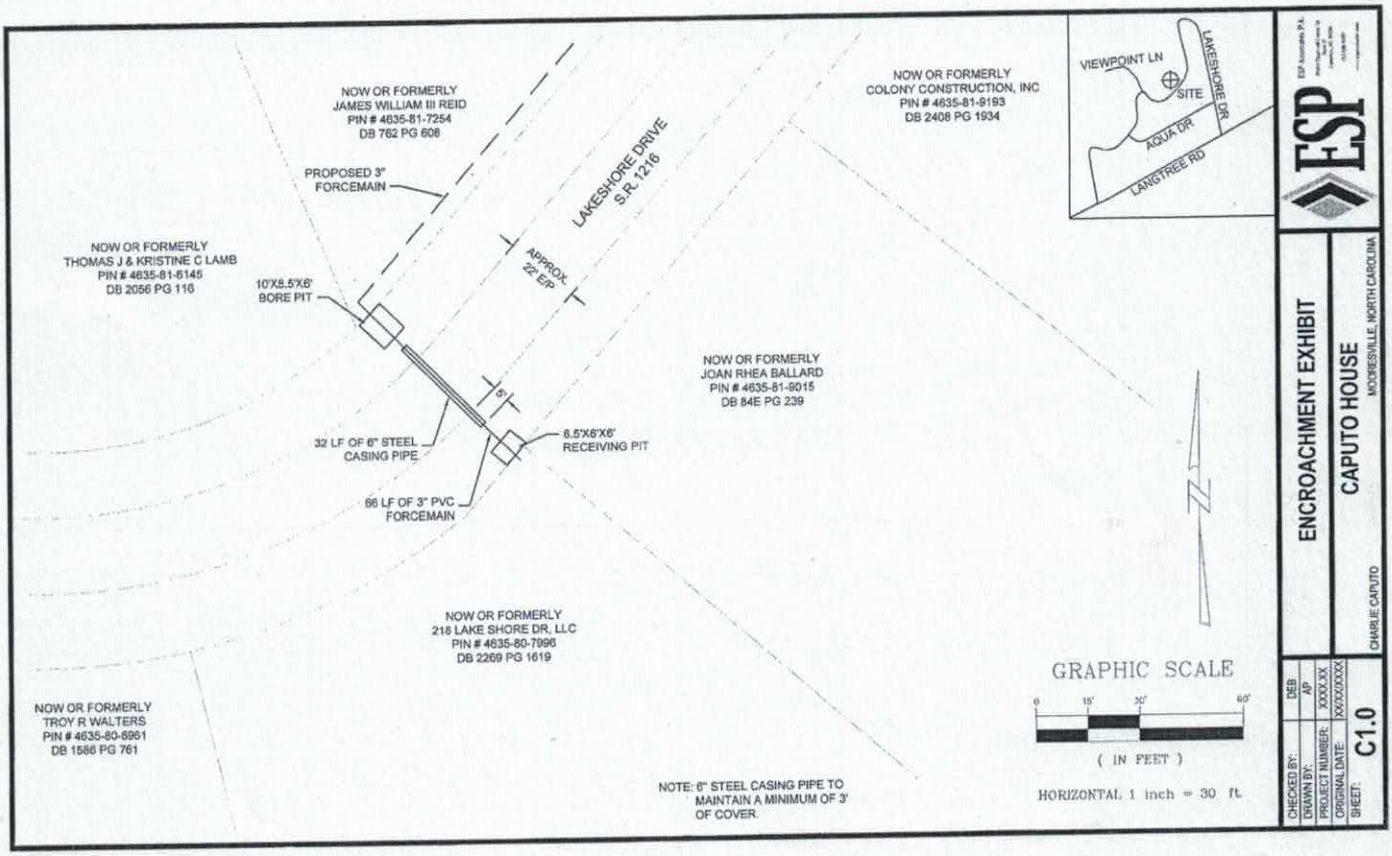
When the applicant is not a corporation, then his signature must be witnessed by one person. The address should be included in this agreement and the names of all persons signing the agreement should be typed directly below their signature.

This agreement must be accompanied, in the form of an attachment, by plans or drawings showing the following applicable information:

1. All roadways and ramps.
2. Right of way lines and where applicable, the control of access lines.
3. Location of the existing and/or proposed encroachment.
4. Length, size and type of encroachment.
5. Method of installation.
6. Dimensions showing the distance from the encroachment to edge of pavement, shoulders, etc.
7. Location by highway survey station number. If station number cannot be obtained, location should be shown by distance from some identifiable point, such as a bridge, road, intersection, etc. (To assist in preparation of the encroachment plan, the Department's roadway plans may be seen at the various Highway Division Offices, or at the Raleigh office.)
8. Drainage structures or bridges if affected by encroachment (show vertical and horizontal dimensions from encroachment to nearest part of structure).
9. Method of attachment to drainage structures or bridges.
10. Manhole design.
11. On underground utilities, the depth of bury under all traveled lanes, shoulders, ditches, sidewalks, etc.
12. Length, size and type of encasement where required.
13. On underground crossings, notation as to method of crossing - boring and jacking, open cut, etc.
14. Location of vents.

GENERAL REQUIREMENTS

1. Any attachment to a bridge or other drainage structure must be approved by the Head of Structure Design in Raleigh prior to submission of encroachment agreement to the Division Engineer.
2. All crossings should be as near as possible normal to the centerline of the highway.
3. Minimum vertical clearances of overhead wires and cables above all roadways must conform to clearances set out in the National Electric Safety Code.
4. Encasements shall extend from ditch line to ditch line in cut sections and 5' beyond toe of slopes in fill sections.
5. All vents should be extended to the right of way line or as otherwise required by the Department.
6. All pipe encasements as to material and strength shall meet the standards and specifications of the Department.
7. Any special provisions or specifications as to the performance of the work or the method of construction that may be required by the Department must be shown on a separate sheet attached to encroachment agreement provided that such information cannot be shown on plans or drawings.
8. The Department's Division Engineer should be given notice by the applicant prior to actual starting of installation included in this agreement.


NOW OR FORMERLY
JAMES WILLIAM III REID
PIN # 4635-81-7254
DB 762 PG 608
PROPOSED 3"
FORCEMAIN
LAKESHORE DRIVE
S.R.1216
APPROX.
22' E/P
NOW OR FORMERLY
THOMAS J & KRISTINE C LAMB
PIN # 4635-81-6145
DB 2056 PG 116
10'X5.5'X6'
BORE PIT
5'
32 LF OF 6" STEEL
CASING PIPE
6.5'X6'X6'
RECEIVING PIT
86 LF OF 3" PVC
FORCEMAIN
NOW OR FORMERLY
COLONY CONSTRUCTION, INC
PIN # 4635-81-9193
DB 2408 PG 1934
NOW OR FORMERLY
JOAN RHEA BALLARD
PIN # 4635-81-9015
DB 84E PG 239
NOW OR FORMERLY
218 LAKE SHORE DR, LLC
PIN # 4635-80-7996
DB 2269 PG 1619
NOW OR FORMERLY
TROY R WALTERS
PIN # 4635-80-6961
DB 1586 PG 761
VIEWPOINT LN
SITE
LAKESHORE DR
AQUA DR
LANGTREE RD
N
GRAPHIC SCALE
0
15'
30'
60'
(IN FEET)
HORIZONTAL 1 inch = 30 ft.
NOTE: 6" STEEL CASING PIPE TO
MAINTAIN A MINIMUM OF 3'
OF COVER.
ESP
ENCROACHMENT EXHIBIT
CAPUTO HOUSE
MOORESVILLE, NORTH CAROLINA
CHARLIE CAPUTO
CHECKED BY:
DRAWN BY:
PROJECT NUMBER:
ORIGINAL DATE:
SHEET:
DEB
AP
XXXX.XX
XX/XX/XXXX
C1.0

IREDELL COUNTY HEALTH DEPARTMENT

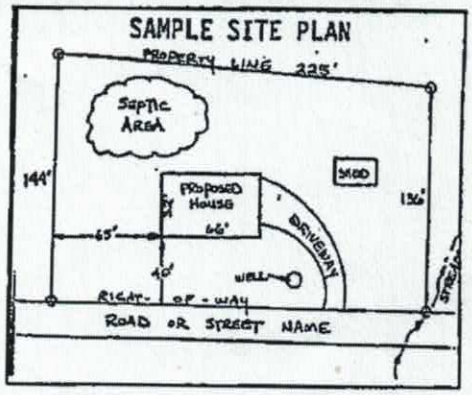
ENVIRONMENTAL HEALTH DIVISION

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
( ) Front and side setbacks from property line
( ) Preferred driveway location and well location
( ) Area you prefer your septic system to be placed
( ) North arrow, or other sufficient indicator of direction

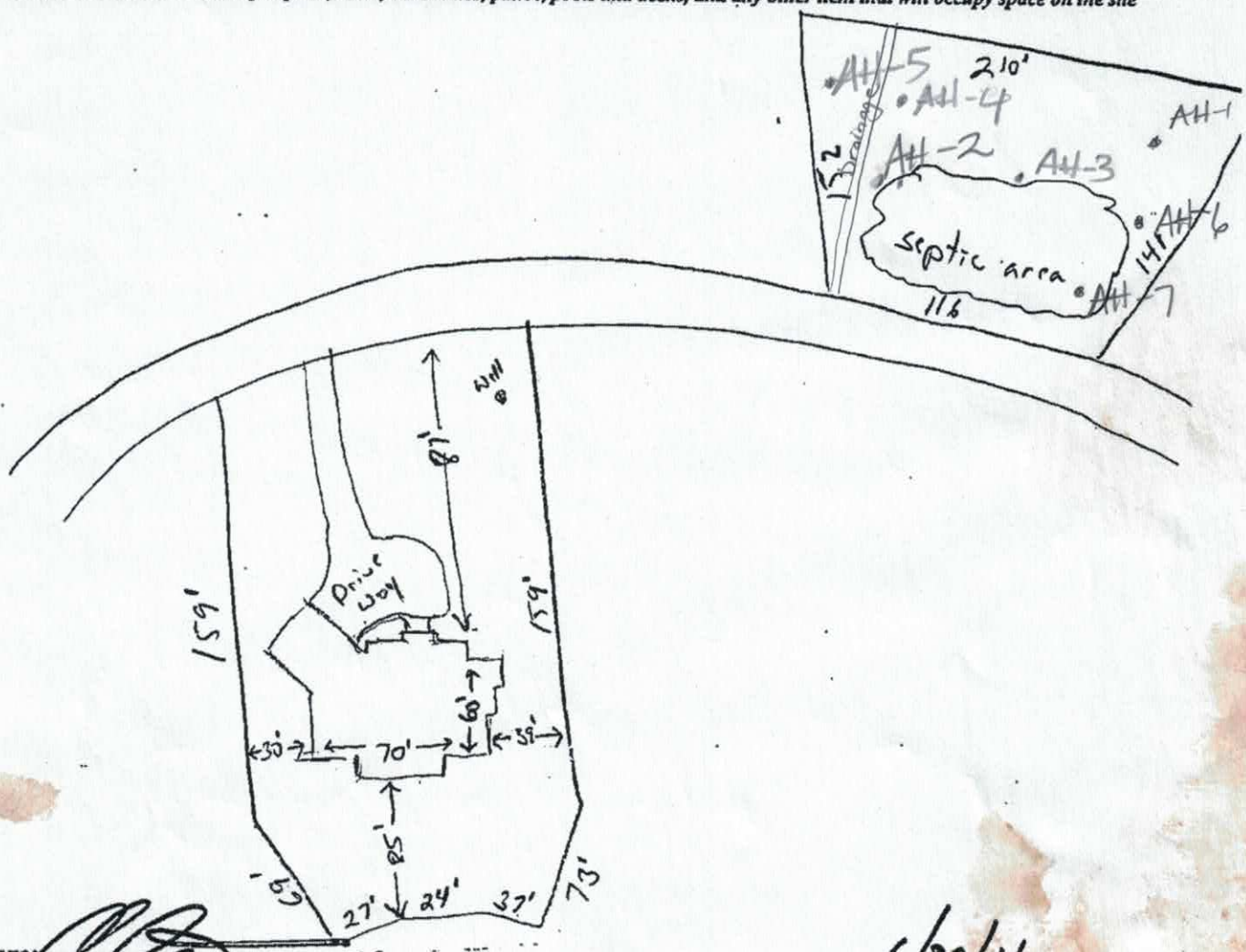


Circle N/A on the following if appropriate:

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

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site



Signature: _____

Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

6/20/16
DATE



COPYRIGHT © 2015 DK DESIGNS, INC.

IF THIS STAMP IS NOT RED THEN THIS IS AN ILLEGAL SET OF PLANS

DK DESIGNS, INC.
FAYETTEVILLE, GA.
770-460-4485

DK DESIGNS, INC.

REVISION

SHEET OF

www.dkplans.com

DK DESIGNS, INC.

HERITAGE PARK

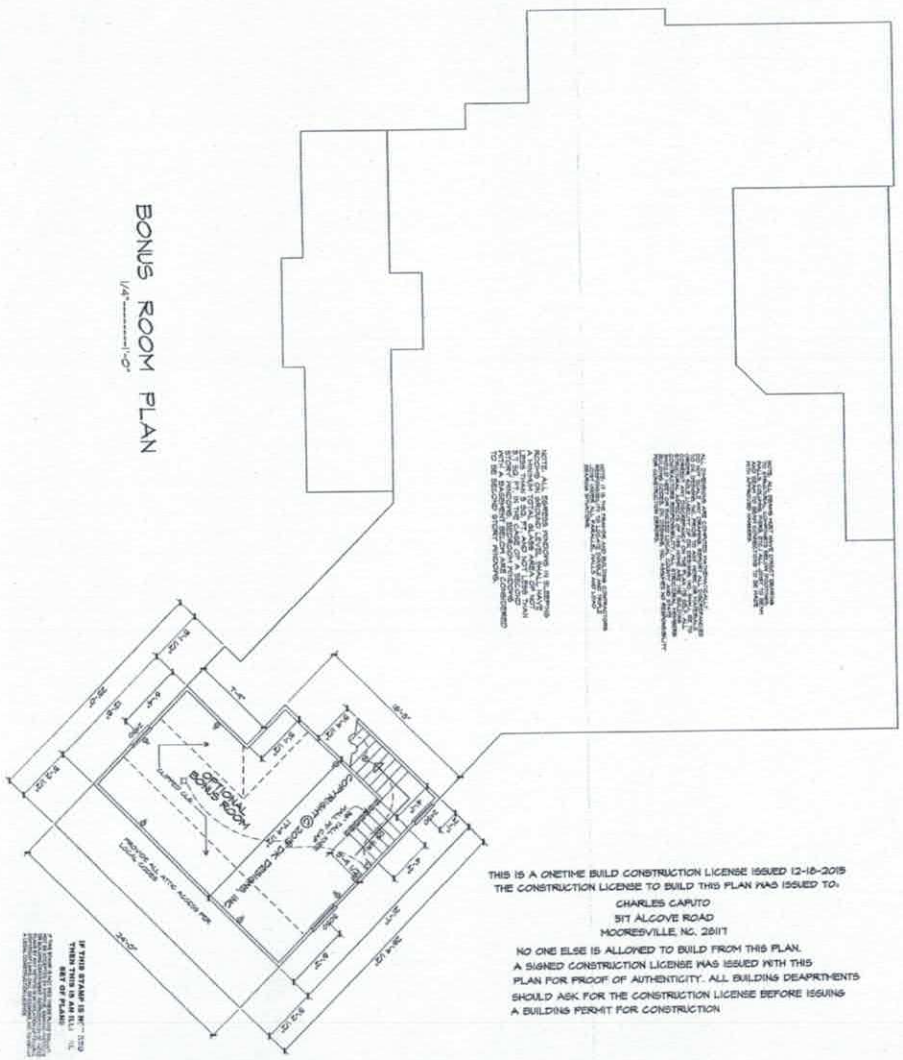
Acknowledgement of
Plans Submittal ONLY!

Date 8/23/16

Date 8/24/16

BONUS ROOM PLAN

1/4"=1'-0"



THIS IS A ONETIME BUILD CONSTRUCTION LICENSE ISSUED 12-16-2015
THE CONSTRUCTION LICENSE TO BUILD THIS PLAN WAS ISSUED TO:

CHARLES CAPUTO
317 ALCOVE ROAD
MOORESVILLE, NC. 28117

NO ONE ELSE IS ALLOWED TO BUILD FROM THIS PLAN.
A SIGNED CONSTRUCTION LICENSE WAS ISSUED WITH THIS
PLAN FOR PROOF OF AUTHENTICITY. ALL BUILDING DEAPRTMENTS
SHOULD ASK FOR THE CONSTRUCTION LICENSE BEFORE ISSUING
A BUILDING PERMIT FOR CONSTRUCTION

IF THIS STAMP IS IN RED
THEN THIS IS AN ELECTRONIC
SET OF PLANS

www.dkplans.com

HERITAGE PARK

DK DESIGNS, INC.

SHEET OF

REVISION

DK DESIGNS, INC.

DK DESIGNS, INC.
FAYETTEVILLE, GA.
770-460-9445

IREDELL COUNTY

PO Box 788
349 North Center St.
Statesville, NC 28677

FILE COPY

APPLICATION NUMBER
219710
Issue Date: 06/21/2016

ZONING PERMIT
Open Space

Parcel Number	Street Address	Jurisdiction
4635818343.000	218 LAKESHORE DRIVE, MOORESVILLE, NC	IREDELL COUNTY

Owner Information	Applicant Information
Owner: 218 LAKE SHORE DR LLC	Applicant: CAPUTO CHARLES A
Address: 12304 WESTWOOD HILLS DRIVE MOORESVILLE, VA 20171	Address: 202 LAKESHORE DR MOORESVILLE, NC 28117
Phone:	Phone:

Use Requested	Zone Code
SFD	R20

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
	35.00	50.00	15.00	15.00	CACL	AE

Remarks:

PAID
#01482
6-20-16

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. The applicant further acknowledges that enforcement of deed restrictions, plat conditions and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

See Attached

Applicant: _____ Date: _____

Permit Number	72218	TOTAL FEES:	$ 77.25