



Onslow County Health Department
 234 Northwest Corridor Blvd
 Jacksonville, North Carolina 28540
 Phone: (910) 938-5851 Fax: (910) 989-5819

OPERATIONS PERMIT

(GS 130A-337)

Owner: ATLANTIC CONSTRUCTION INC

Address: 101 Barnhouse RD, Jacksonville, NC 28546

Parcel: 1114N-37

Subdivision: WATERS FARM

Lot Number: 37/37A **Section:** System B **Phase:**

Block: **Part:** **Tract:**

Proposed Use: Single Family Residence

Location: Off Old 30 Road

Facility/Daily design flow: 3 Bedroom/ <360 GPD/ 6 Persons Max

System Information: SYSTEM IS PUMPING OFF-SITE AS PART OF LARGE SYSTEM B - SERVING 8 - 3 BEDROOM RESIDENCES. 18 - 100' x 3' Conventional Lines with Pump and Manifold for Initial. 72' x 200' LPP for Repair. REPAIR REQUIRES ENGINEERED DESIGN.

SEPTIC INSTALLER: BILLY MARSHBURN

Water Supply: Public

System Description: Conventional, Gravel Trench, Off-Site System, Effluent Pump

Permit No: EHOP-2020-00103

Workclass: EH OP New

FINAL PLOT / REMARKS

System Type: III b

System Classification: b. Septic system w/ single effluent pump or siphon

Manufacturer: Conventional GTR

Model#: GTR

Note: Type V and VI systems expire in 5 years. (In accordance with Table Va of .1961). Owner must contact the Onslow County Health Department 6 months prior to expiration for permit renewal. Onslow County Health Department is required to inspect the following system types: IIIb, every 5 years; IV, every 3 years; V, once per year and VI, every six months.

Signed By: Andrew Lake

Date: 03/30/2020

This system has been installed in compliance with applicable NC General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the I.P. and C.A. This system shall perform in accordance with 15A NCAC 18A Rule .1961. Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank periodically removed from all compartments. The contents shall be pumped, by approved means, whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

THE ISSUANCE OF THIS O.P. DOES NOT CONSTITUTE AN ONSLOW COUNTY WARRANTY OR GUARANTEE OF THE FUNCTIONALITY OF THE WASTEWATER SYSTEM



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CONSTRUCTION AUTHORIZATION
 (GS 130A-336)

Permit No: EHCA-2019-00220

Workclass: EH CA New

(Required for Building Permit)

THIS AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION SHALL BE VALID FOR A PERIOD EQUAL TO THE PERIOD OF VALIDITY OF THE IMPROVEMENT PERMIT.

Owner: DIVERSIFIED INVESTORS INC

Address: 101 Barnhouse RD, Jacksonville, NC 28546

Subdivision: WATERS FARM

Lot Number: 37/37A

Section: System B

Phase:

Block:

Part:

Tract:

Proposed Use: Single Family Residence

Location: Off Old 30 Road

System Type: III b

System Classification: b. Septic system w/ single effluent pump or siphon

System Description: Conventional, Gravel Trench, Off-Site System, Effluent Pump

Facility/Daily design flow: 3 Bedroom/ <360 GPD/ 6 Persons Max

System Information: SYSTEM IS PUMPING OFF-SITE AS PART OF LARGE SYSTEM B - SERVING 8 - 3 BEDROOM RESIDENCES. 18 - 100' x 3' Conventional Lines with Pump and Manifold for Initial. 72' x 200' LPP for Repair. REPAIR REQUIRES ENGINEERED DESIGN.

LTAR: .53 gpd/sq. ft.

Water Supply: Public

Septic Tank Size: 1,000 gallons

Grease Trap Size: N/A gallons

Pump Tank Size: 1,000 gallons

Nitrification Area: 5,434 sq. ft.

Nitrification Linear Feet: 1,811 lin. ft.

No of Lines: 18

Line Length: 100'

Line Width: 3'

Trench Bottom Depth: 36"

(SEE ATTACHED PAGES 1 - 5 of 5 FOR ADDITIONAL PERMIT CONDITIONS)

Signed By: Andrew Lake

Date: 03/25/2019

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958 and .1959 are incorporated by reference into this permit and shall be met.

THE ISSUANCE OF THIS C.A. DOES NOT CONSTITUTE AN ONSLOW COUNTY WARRANTY OR GUARANTEE OF THE FUNCTIONALITY OF THE WASTEWATER SYSTEM



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OPERATIONS PERMIT
 (GS 130A-337)

Waters Farm
lots 28-30
33-37

Owner: DIVERSIFIED INVESTORS INC. DIVERSIFIED INVESTORS INC

Permit No: EHOP-2017-00504

Address: , OLD 30 RD, JACKSONVILLE, 28546

Workclass: EH OP New

Parcel: 1114-28.11

Subdivision: WATERS FARM System B

Lot Number: 28-30.33-37 Section: Phase:

Block: Part: Tract:

Proposed Use: Singe Family Residences

Location: Off Old 30 Road

Facility/Daily design flow: 8 - 3 Bedrooms/<2,880 GPD (6 Person/Res)

System Information: SYSTEM IS PUMPING OFF-SITE. System is 18 - 100' x 3' Conventional Lines with pump and manifold. System was installed in accordance with approved Engineer's Plans prepared by Crystal Coast Engineering, P.A. Refer to engineer's plans for system layout and location of system components. 72' x 200' LPP Repair. REPAIR REQUIRES ENGINEERED PLANS. INSTALLED BY HAYWOOD PITTMAN.

Water Supply: Public

System Description: Conventional, Gravel Trench, Off-Site System, Effluent Pump

FINAL PLOT / REMARKS

System Type: III b

System Classification: b. Septic system w/ single effluent pump or siphon

Manufacturer: CONVENTIONAL

Model#: GTR

Note: Type V and VI systems expire in 5 years. (In accordance with Table Va of .1961). Owner must contact the Onslow County Health Department 6 months prior to expiration for permit renewal. Onslow County Health Department is required to inspect the following system types: IIIb, every 5 years; IV, every 3 years; V, once per year and VI, every six months.

Signed By: Chris Harper

Date: 04/18/2018

This system has been installed in compliance with applicable NC General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the I.P. and C.A. This system shall perform in accordance with 15A NCAC 18A Rule .1961. Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank periodically removed from all compartments. The contents shall be pumped, by approved means, whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

THE ISSUANCE OF THIS O.P. DOES NOT CONSTITUTE AN ONSLOW COUNTY WARRANTY OR GUARANTEE OF THE FUNCTIONALITY OF THE WASTEWATER SYSTEM



Onslow County Health Department
 234 Northwest Corridor Blvd
 Jacksonville, North Carolina 28540
 Phone: (910) 938-5851 Fax: (910) 989-5819

Lot 28, 30, 33-37
 System B

CONSTRUCTION AUTHORIZATION

(GS 130A-336)

Permit No: EHCA-2017-00531
 Workclass: EH CA New

(Required for Building Permit)

THIS AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION SHALL BE VALID FOR A PERIOD EQUAL TO THE PERIOD OF VALIDITY OF THE IMPROVEMENT PERMIT.

Owner: DIVERSIFIED INVESTORS INC, 4219

Address: , OLD 30 RD, JACKSONVILLE, NC 28546

Subdivision: WATERS FARM

Lot Number: 2-8,11,12-17,20-27, 28, 30, 33-37
 Section: CONDITIONAL CA
 Phase:

Block:

Part: Tract:

Proposed Use: SINGLE FAMILY RESIDENCE

Location: Off of Old 30 Road

System Type: III b System Classification: b. System with more than 1 pump or siphon

System Description: Conventional, Gravel Trench, Off-Site System, Effluent Pump

Facility/Daily design flow: Systems A, B, C, & D

System Information: PRE-CONSTRUCTION MEETING REQUIRED PRIOR TO INSTALLATION OF SUPPLY LINES. CONDITIONAL CA FOR INSTALLATION OF SUPPLY LINES AND APPURTANCES FOR SYSTEMS A, B, C, & D PUMPING TO OFF-SITE AREA. REFER TO ENGINEERED PLANS.

LTAR: NA gpd/sq. ft. Water Supply: PUBLIC

Septic Tank Size: NA gallons Grease Trap Size: NA gallons

Pump Tank Size: NA gallons

Nitrification Area: NA sq. ft. Nitrification Linear Feet: lin. ft.

No of Lines: Engineered Line Length: Engineered Line Width: Engineered

Trench Bottom Depth: 30" Min.

(SEE ATTACHED PAGES 1 - 7 of 7 FOR ADDITIONAL PERMIT CONDITIONS)

Signed By: Andrew Lake Andrew M. Lake, PEH Date: 10/05/2017

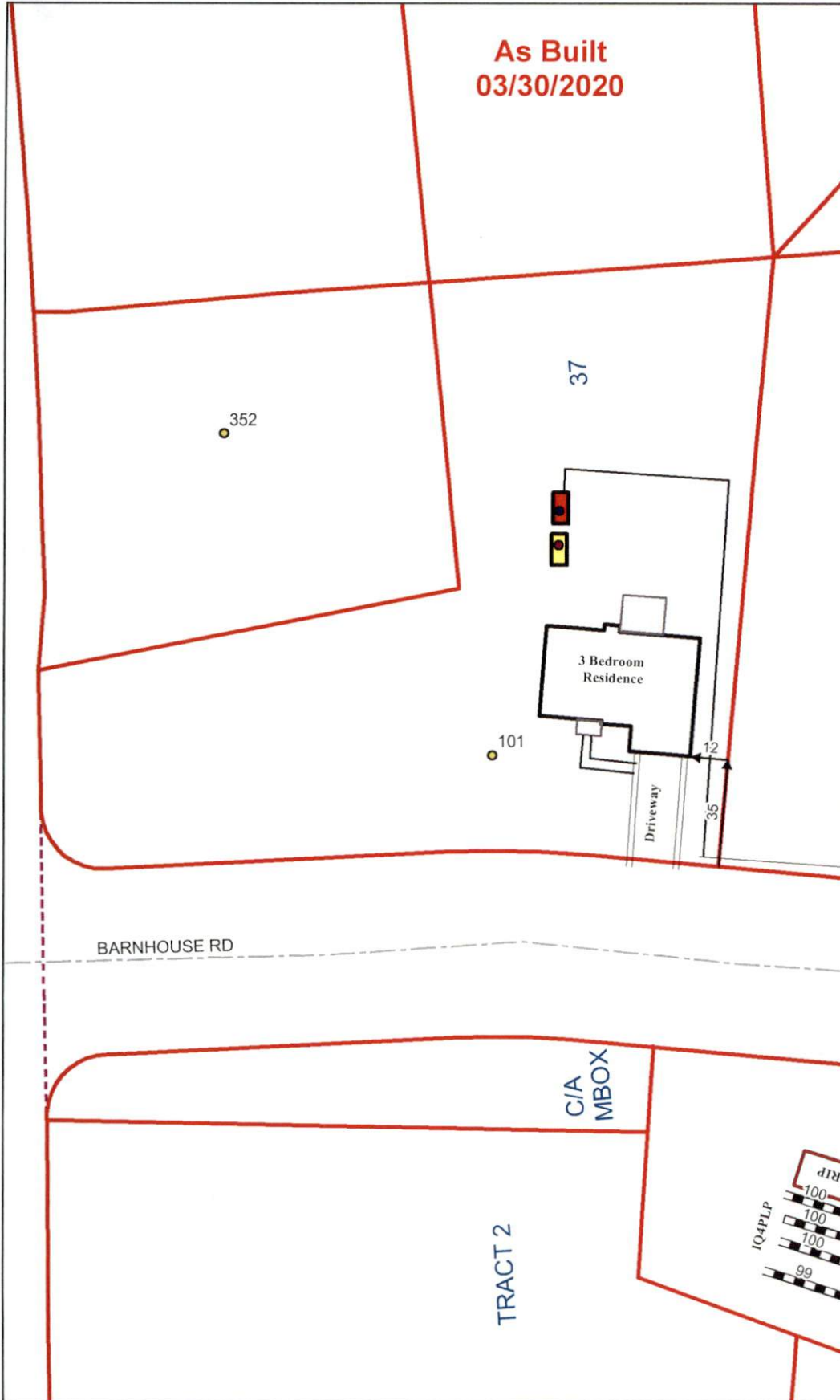
This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The construction and installation requirements of Rules .1930, .1952, .1954, .1955, .1956, .1957, .1958 and .1959 are incorporated by reference into this permit and shall be met.

THE ISSUANCE OF THIS C.A. DOES NOT CONSTITUTE AN ONSLOW COUNTY WARRANTY OR GUARANTEE OF THE FUNCTIONALITY OF THE WASTEWATER SYSTEM

Owner: Waters Farm
 Address: 101 Barnhouse Road
 Location: Jacksonville, NC

PLOT PLAN
 1 inch = 50 feet

Addendum to permit # EHOP-2020-00103
 Page 1 of 1



Additional Permit Conditions:

1. Do not park or drive on any part of system or repair area.
2. Nitrification trench aggregate shall be covered with straw, untreated paper or other approved materials prior to final cover/backfilling.
3. Do not install system under wet conditions.
4. Adhere to minimum set back requirements as stated in Rule .1950 and .1951 of NC Laws and Rules for Sewage Treatment and Disposal System (Article 11, G.S. Chapter 130A) unless otherwise indicated on this permit.
5. Rock used in soil absorption systems shall be clean, washed gravel or crushed stone and graded or sized in accordance with size numbers 3, 4, 5, 57, or 6 of ASTM D-448 (standard sizes of coarse aggregate) which is hereby adopted by reference in accordance with G.S. 150 B-14 (c). Documentation of aggregate size shall be available upon request.
6. All pump tanks shall be tested for water tightness. Septic tanks may be subject to a water tightness test.
7. The septic tank is designed to receive sewage or wastewater under gravity flow. However, if a system subject to the N.C. Plumbing Code is used to pump raw sewage to the septic tank, the sewage shall be reduced to gravity/non-turbulent flow by approved means at the inlet of the septic tank.
8. An accepted wastewater system may also be installed in accordance with the accepted wastewater system approval. (Maximum LTAR of 1.0 gpd/ft2)
9. Run lines parallel to contour. System components represent approximate contours only. The contractor must flag the system prior to beginning the installation to insure that proper grade is maintained.
10. A recorded plat or deed and corresponding map shall be submitted to the Environmental Health Section of the Onslow County Health Department PRIOR TO the issuance of the Construction Authorization.
11. An APPROVED stormwater plan shall be submitted to the Environmental Health Section of the Onslow County Health Department PRIOR to issuance of a Construction Authorization.
12. FOR DWELLING UNIT WASTEWATER SYSTEMS ONLY – This wastewater system is designed only for the number of bedrooms shown as bedrooms or sleeping rooms on the building/floor plan approved by Onslow County Code Enforcement. No other room or space may be relabeled as a bedroom, used as a bedroom, or converted into a bedroom without prior approval from Onslow County Environmental Health.



SYSTEM DESIGN

BEDROOMS/ GPD: 3 Bedroom/ <360 GPD/ 6 Persons
 SYSTEM TYPE: 11b - Conventional Off-Site
 % REDUCTION: NA
 LTAR: .53
 SQ. FT. 5,434
 LINEAR FEET 1,811
 # OF LINES: 18
 LENGTH EACH LINE: 100'
 TRENCH BOTTOM: 36
 TRENCH WIDTH: 3' FEET
 FEET ON CENTER (LINES) 9 FEET
 REPAIR AREA: 72' x 200' LPP for Repair

****WARNING: THIS IS NOT A SURVEY!****

This map is prepared for the inventory of real property found within this jurisdiction, and is compiled from recorded deeds, plats, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information contained on this map. The County and mapping company assume no legal responsibility for the information contained on this map.

SEPTIC TANK INSPECTION CHECKLIST (Type II-V)

Name: _____
 Address: _____

Permit #'s _____
 Location: _____

Date of CA Application _____
 Date of Construction Authorization _____
 System Type _____

Initial System Off-Site Yes/No
 Repair Area Off-Site Yes/No

SEPTIC TANK	INITIAL DATE	NITRIFICATION LINES/LATERALS	INITIAL DATE
Manufacture Date	11/27/19 <i>OK</i> 3/30/20	Trench/Lateral Type/Aggregate	
State ID Number	STB-134	Trench Width:	
Capacity	FPS 1020	Trench Length:	
Tee/Approved Filter	<i>OK</i>	% Reduction Taken:	
Baffle	<i>OK</i>	Trench Bottom/Lateral Depth	
Sealant	<i>OK</i>	Number of Lines/Laterals	
Tank Penetration Seal	<i>OK</i>	Trench Grade	
Riser if Applicable	↓	Rock Depth & Quality (3, 4, 5, 57, 6)	
Water Tightness Test	↓	Aggregate Cover	
		Warranty(if applicable)	
		Dams/Stepdowns/Drop box, etc.	
PUMP TANK		Pressure Lateral:	
Manufacture Date	12/12/19 <i>OK</i> 3/30/20	Hole Spacing/Hole Sizing:	
State ID Number	PT385	Turn-ups/Protectors	
Capacity	FPS 1020	Observation Ports	
Waterproof/Sealant	<i>OK</i>		
		DISTRIBUTION SYSTEM	
Riser	↓	Distribution Method:	
Water tightness Test	<i>W/A</i>	Serial Dist.	
		Pressure Manifold	
		Tap Size & Material	
PUMP		Pipe (Size, Material & Grade)	
Check Valve/Gate valve	<i>OK</i>	Valves (Bull Run, Flow Divider, etc...)	
Anti-siphon Hole (Size)	<i>OK</i>	Valves	
Pressure Head	<i>OK</i>		
		SUPPLY LINE	
Floats/Pressure Bell/Transducer	<i>OK</i>	Location	
Drawdown (inches)	3"	Pipe (Material)	
Electrical Components	<i>OK</i>	Depth (if specified)	
NEMA 4x Box	<i>OK</i>	Pipe Size	
Rate (gpm)	216 gpm	Hydrostatic Leak Test:	
Pump Manufacturer:	Zeller		
Pump Model Number:	151		
Pump Removal Method	<i>OK</i>		
Permanent Power	<i>OK</i>		
		LANDSCAPING	
		Surface Drain	
		Subsurface Drain	
		Depth of Cover: Tank: Drainfield:	<i>OK</i>
		Will Shed Surface Water (Turtleback)	
		Finish Grade/Stabilize (if applicable)	
		Permanent Markers (tank)	
GREASE TRAP			
Manufacture Date	<i>N/A</i>		
		OTHER	
State ID Number	↓	System Setbacks	
Capacity	↓	Legal Documents	
Tee/Approved Filter (Extends 50% of liquid depth)	↓	Mound Approved (Texture, Interface, Location, Length, Depth, Width)	<i>OK</i>
24" Access Opening	↓	ORC Contract/Company	
Water Tightness Test	↓	Tri-Party Draft	
		Tri-Party Finalized/Recorded	
		Grinder Pump Needed?	
		Wye Connect/Grinder Approval	

OFF-SITE

OFF-SITE

OFF-SITE

↓

CONTRACTOR

INSPECTIONS

Name: LANDWORKS/B. MARSHBURN

REHS	DATE	TIME
<u>aul</u>	<u>3/30/20</u>	<u>1:30</u>

REHS	DATE	TIME

Certification Level: IV

OFF-SITE SYSTEMS	INITIAL DATE	DRIP SYSTEMS/ADVANCED PRE-TREATMENT	INITIAL DATE
Conditional CA for Supply Lines:		Preconstruction Meeting	<u>N/A</u>
Date Issued:		Drip Manufacturer	↓
Date Installed:		Drip Tags Collected	
Hydrostatic Leak Test:		Headworks (above SWC)	
Permanent Markers with Lot # (At Corners of Drainfield)		Start-up/Final	
All Weather Access Road	<u>SEE CONDITIONAL CA</u>	Manufacturers Approval for Design	
Easements Recorded		Field Representative Letter of Acceptance	
		Installer Authorized/Approval from Manufacturer	
Designs/Plans Submitted		Cover Turtlebacked	
Plans Approved		Pretreatment Product/Device	
Telemetry			
As Built Provided		Designs/Plans Submitted	
Designer/Engineer Letter of Acceptance		Plans Approved	
		Telemetry	
		As Built Provided	
DRAINAGE	<u>N/A</u>	Designer/Engineer Letter of Acceptance	
Design Approved	↓	Approval #'s	
Type: <input type="checkbox"/> GWL			
<input type="checkbox"/> Interceptor			
<input type="checkbox"/> Ditch			
<input type="checkbox"/> Swale			
Tile Size:			
Depth:			
Pump Drainage Required:			
Pump Size:			
Pump Manufacturer:			
Power Connected/Operational: (Generator Not Approved)			

COMMENTS:
