HTE# Attemp to Rejoin Harnett County Department of Public Health

26000

Improvement Permit

	t cannot be issued with only an Improvement Permit	
ISSUED TO: Goillerno Palacios	PROPERTY LOCATION: 280 Wyndham Place D. SUBDIVISION Wyndham Place Site Improvements required prior to Construction Author	· .
NEW □ REPAIR □ EXPANSION □	Site Improvement would nive to Constitute of the	LOT # _//
Type of Structure: CY St. AC SED	site improvements required prior to construction Authori	zation Issuance:
Proposed Wastewater System Type: Dump to 10" LDP		
Projected Daily Flow: 360 GPD		
Number of bedrooms: Number of Occupants: 6	max	
Basement Yes No		
Pump Required: ☑Yes ☐ No ☐ May be required based on f	final location and elevations of facilities	
	Distance from wellfeet Permit valid for:	Five years
Permit conditions:	Territ value for.	☐ No expiration
		— no expiration
1		
Authorized State Agent: Wyo My CEH	Date: 6/8/240 SEE ATTA	ACHED SITE SKETCH
The issuance of this permit by the Health Department in no way guarantees the issuance of	of other permits. The permit holder is responsible for checking with appropriate governing hodies in	meeting their requirements This
the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit	rement Permit shall not be affected by a change in ownership of the site. This permit is subject to	compliance with the provisions of
emiliar to sende realisest and osposal and to conditions of this permit.		
Con	setumentian Authoritation	
<u>(01</u>	nstruction Authorization	
The construction and installation requirements of Pulse 1959, 1952, 1954, 1957, 1957	(Required for Building Permit)	
with the attached system layout.	.1957, .1958. and .1959 are incorporated by references into this permit and shall be met. Systems	shall be installed in accordance
C · II · P · ·	2/	
ISSUED TO: Goillarmo Palacios		٩
	PROPERTY LOCATION: 250 wyndhan Plac SUBDIVISION Wyndhan Place Lew Expansion Repair	LOT # //
Facility Type: existing SFD - N	lew Expansion Repair	
Basement? ☐ Yes ☐ No Basement Fixtures? ☐ Yes	s No	
Type of Wastewater System**	(Initial) Wastewater Flow: =	366 GPD
(See note below, if applicable \square)		
(see note below, if applicable Doupto 10" Large	Diamenter- (Repair)	
Installation Requirements/Conditions Number of the		
Septic Tank Size Existing gallons Exact length	of each trench 300 feet Trench Spacing: 6	Feet on Center
	all be installed on contour at a Soil Cover: in	
7	rench Depth of: 16 inches (Maximum soil cover shall n	
	coms shall be level to $\pm \frac{1}{4}$ " 36" above the trench botto	
	ions)	nii)
Pump Requirements:ft. TDH vs GPM	0113)	in the below in
	Aggregate Depth:	inches below pipe
Conditions: Contractor to meet on sit	e to determine layout	
6/14/2010 Bm	1 100 00 1	inches total
** If applicable: / understand the system type specified is different for		
in applicable. I understand the system type specified is different in	om the type specified on the application. I accept the specifications of th	his permit.
Owner/Logal Representative Construes		
Owner/Legal Representative Signature:	use changes. The Construction Authorization shall not be transferred when there is a change in own	
Construction Authorization is subject to revocation if the site plan, plat, or the intended		
Construction Authorization is subject to compliance with the provisions of the Laws and Rule	s for sewage treatment and Disposal and to the conditions of this permit.	TTACHED SITE SKETCH
med e-	HC /	
Authorized State Agent Sugar Social E	Date: 6/8/2010	
Co	onstruction Authorization Expiration Date: 6/8/2°15	

Harnett County Department of Public Health Site Sketch

C 11 D1 .	PROPERTY LOCATON: 280 Wynd	ham Place Dr.		
ISSUED TO: Goillermo Palacios	SUBDIVISION Wyndham	Place	LOT #	11
Authorized State Agent: Sup 12000	LEHS Date:	6/8/2010		

* Pump Truk
can be placed
any where so
that fall combe
achived.

* A Bull run valve can be placed between the septic t pump tank if original drainfield can be soved

	Branch 30 Buffer
Existing Sixting	
	HOUSE AREA I I FOR REPAIR U DRAINFIEID (C)
	DRIENTIELD (C)

resist 500 pounds crushing strength, structurally sound, and shall be resistant to corrosion. Valves placed below ground level shall be provided with a valve box and suitable valve stem so that they may be operated from the ground surface.

History Note:

Authority G.S. 130A-335 (e)(f)(f1)[2nd];

Eff. July 1, 1982;

Amended Eff. August 1, 1991; January 1, 1990; August 1, 1988; February 1, 1987;

Temporary Amendment Eff. January 1, 1999;

Amended Eff. August 1, 2000.

15A NCAC 18A .1956 MODIFICATIONS TO SEPTIC TANK SYSTEMS

The following are modifications to septic tank systems or sites which may be utilized singly or in combination to overcome selected soil and site limitations. Except as required in this Rule, the provisions for design and installation of Rule .1955 and .1970 of this Section shall apply:

- (1) SHALLOW SYSTEMS: Sites classified UNSUITABLE as to soil depth or soil wetness may be reclassified as PROVISIONALLY SUITABLE with respect to soil depth or soil wetness conditions by utilizing shallow placement of nitrification trenches in the naturally occurring soil. Shallow trenches may be used where at least 24 inches of naturally occurring soil are present above saprolite, rock, or soil wetness conditions and all other factors are PROVISIONALLY SUITABLE or SUITABLE. Shallow trenches shall be designed and constructed to meet the vertical separation requirements in Rule .1955(m) or .1970 of this Section. The long-term acceptance rate shall be based on the most hydraulically limiting naturally occurring soil horizon within 24 inches of the ground surface or to a depth of one foot below the trench bottom, whichever is deeper. Soil cover above the original grade shall be placed at a uniform depth over the entire nitrification field and shall extend laterally five feet beyond the nitrification trench. The type and placement of soil cover shall be approved by the local health department.
- (2) DRAINAGE AND RESTRICTIVE HORIZONS: Sites classified UNSUITABLE as to soil wetness conditions or restrictive horizons may be reclassified PROVISIONALLY SUITABLE as to soil wetness conditions or restrictive horizons when:
 - (a) Soils are Soil Groups I or II with SUITABLE structure, and clay mineralogy;
 - (b) Restrictive horizons, if present, are less than three inches thick or less than 12 inches from the soil surface.
 - (c) Modifications can be made to meet the requirements in Rule .1955(m) of this Section for the separation between the water table and the bottom of the nitrification trench at all times and when provisions are made for maintenance of the drainage systems;
 - (d) Easements are recorded and have adequate width for egress and ingress for maintenance of drainage systems serving two or more lots; and
 - (e) Maintenance of the drainage system is made a condition of any permit issued for the use or operation of a sanitary sewage system.

Drainage may be used in other types of soil when the requirements of Rule .1942, .1970 or .1948(d) in this Section are met.

- (3) MODIFIED TRENCHES: Modified nitrification trenches or lines, including large diameter pipe (greater than four inches I.D.), and specially designed porous block systems may be permitted by the local health department as follows:
 - (a) GRAVELLESS TRENCHES: Gravelless nitrification trench systems may be substituted for conventional trench systems on any site found to be SUITABLE or PROVISIONALLY SUITABLE in accordance with Rules .1940 to .1948 of this Section to eliminate the need for gravel, minimize site disturbance, or for other site planning considerations. Gravelless nitrification trench systems shall not be used, however, where wastes contain high amounts of grease and oil, such as restaurants. Large diameter pipe systems and porous block systems may be permitted by the local health department as follows:
 - (i) Large diameter pipe systems shall consist of eight-inch or 10-inch (inside diameter), corrugated, polythylene tubing encased in a nylon, polyester, or nylon/polyester blend filter wrap installed in a nitrification trench, 12 or more inches wide and backfilled with soil classified as soil group I, II, or III. Nitrification area requirement shall be determined in accordance with Rules .1955(b) and .1955(c), or in Rule .1956(6)(b), Table III(a) of this Section, when applicable, with eight-inch tubing considered

equivalent to a two-foot-wide conventional trench and 10-inch tubing considered equivalent to a two and one-half-foot-wide conventional trench. The long-term acceptance rate shall not exceed 0.8 gallons per day per square foot. Tubing and fittings shall comply with the requirements of ASTM F-667, "Standard Specification for Large Diameter Corrugated Polyethylene Pipe and Fittings, "which is hereby incorporated by reference including any subsequent amendments and editions. Copies of the standards may be inspected at the Division of Environmental Health Central Office, located at 2728 Capital Blvd., Raleigh, NC, and copies may be downloaded from the Internet at http://www.astm.org, or obtained from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19438-2959, at a cost of thirty dollars (\$30.00). The corrugated tubing shall have two rows of holes, each hole between threeeighths and one-half-inch in diameter, located 120 degrees apart along the bottom half of the pipe (each 60 degrees from the bottom center line) and staggered so that one hole is present in the valley of each corrugation. The tubing shall be marked with a visible top location indicator, 120 degrees away from each row of holes. Filter wrap shall be spun, bonded, or spunlaced nylon, polyester, or nylon/polyester blend nylon filter wrap meeting the minimum requirements in Table III(a):

Table III(a): Minimum Filter V	Wrap Requirements for Large Diameter Pipe Systems
PROPERTY	VALUE
Unit Weight	1.0 ounce per square yard
Sheet Grab Tensile Strength	Machine Direction: 23 pounds
Trapezoid Tear Strength	Machine Direction: 6.2 pounds Cross Direction: 5.1 pounds
Mullen Burst Strength	40 pounds per square inch or 276 kilopascals
Frazier Air Permeability	500 cubic feet per minute per square foot at pressure differential of 0.5 inches of water

Corrugated tubing shall be covered with filter wrap at the factory and each joint shall be immediately encased in a black polyethylene sleeve which shall continue to encase the large diameter pipe and wrap until just prior to installation in the trench to prevent physical damage and ultraviolet radiation deterioration of the filter wrap. Large diameter pipe systems shall be installed in accordance with this Rule and the manufacturer's guidelines. The trench bottom and pipe shall be level (with a maximum fall of one inch in 100 feet). Rocks and large soil clumps shall be removed from backfill material prior to being used. Clayey soils (soil group IV) shall not be used for backfill. The near end of the large diameter pipe shall have an eight-inch by four-inch offset adapter (small end opening at top) suitable for receiving the pipe from the septic tank or distribution device and making a mechanical joint in the nitrification trench.

- (ii) A Prefabricated, Permeable Block Panel System (PPBPS), utilizing both horizontal and vertical air chambers and constructed to promote downline and horizontal distribution of effluent, may be used under the following conditions:
 - (A) the soil and site criteria of this Section shall be met;
 - (B) in calculating the required linear footage for a PPBPS's nitrification field, the linear footage for the nitrification line as determined in Rule .1955 (b) and (c), or in Rule .1956 (6)(b), Table III(a) of this Section when applicable, shall be multiplied by 0.5 for a 16 inch PPBPS;
 - (C) installation of the PPBPS shall be in accordance with Rule .1955 except:
 - (I) the PPBPS trench shall be located not less than eight feet on centers;
 - the installation shall be in accordance with the manufacturer's specifications; and
 - (III) the sidewalls of nitrification trenches placed in Group IV soils shall be raked to open pores which were damaged or sealed during excavation;