

HTE# 07-5-17104

Harford County Department of Public Health

23481

Improvement Permit

A building permit cannot be issued with only an Improvement Permit.

ISSUED TO: Raynor Builders, Inc PROPERTY LOCATION: SR1429 Chalybeate Rd
 SUBDIVISION: Dexterfield LOT # 54
 NEW REPAIR EXPANSION Site Improvements required prior to Construction Authorization Issuance:
 Type of Structure: SFD 51X67
 Proposed Wastewater System Type: Prefabricated Permeable Block Panel System (PPBPS)
 Projected Daily Flow: 360 GPD
 Number of bedrooms: 3 Number of Occupants: 6 max
 Basement Yes No
 Pump Required: Yes No May be required based on final location and elevations of facilities
 Type of Water Supply: Community Public Well Distance from well _____ feet Permit valid for: Five years
 No expiration
 Permit conditions: _____

Authorized State Agent: Bryan McJannet, L.S. Date: 3/26/2007 SEE ATTACHED SITE SKETCH
 The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

Construction Authorization

(Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: Raynor Builders, Inc PROPERTY LOCATION: SR1429
 SUBDIVISION: Dexterfield LOT # 54
 Facility Type: SFD 51X67 New Expansion Repair
 Basement? Yes No Basement Fixtures? Yes No
 Type of Wastewater System** PPBPS (Initial) Wastewater Flow: 360 GPD
 (See note below, if applicable Pump to Accepted (Repair))

Installation Requirements/Conditions

Septic Tank Size 1000 gallons Exact length of each trench 1 X 150 feet Trench Spacing: 9 Feet on Center
 Pump Tank Size _____ gallons Trenches shall be installed on contour at a Soil Cover: 6" min inches
 Maximum Trench Depth of: 24 inches (Maximum soil cover shall not exceed 36" above the trench bottom)
 (Trench bottoms shall be level to +/- 1/4" in all directions)
 Pump Requirements: _____ ft. TDH vs. _____ GPM _____ inches below pipe
 Aggregate Depth: _____ inches above pipe
 Conditions: Ditch to be run on contour + NO DEEPER than 24"
Side walls of trench must be raked prior to installing PPBPS
 _____ inches total

**If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

Owner/Legal Representative Signature: _____ Date: _____

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. 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.

Authorized State Agent: Bryan McJannet, L.S. Date: 3/26/2007 SEE ATTACHED SITE SKETCH
 Construction Authorization Expiration Date: 3/26/2012

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, which is hereby incorporated by reference including any subsequent amendments and editions. Copies of the standards may be inspected in and copies obtained from the Division of Environmental Health, P.O. Box 27687, Raleigh, NC 27611-7687 at no cost. The corrugated tubing shall have two rows of holes, each hole between three-eighths 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 following minimum requirements:

Unit Weight:	Oz/yd ² = 1.0
Sheet Grab Tensile:	MD - 23 lbs.
Trapezoid Tear:	MD - 6.2 lbs.
	XD - 5.1 lbs.
Mullen Burst:	PSI = 40
KPa = 276	

Frazier Air Perm, CFM/ft] 0.5 "H₂O: 500"

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. 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). Filter wrap encasing the tubing shall not be exposed to sunlight (ultraviolet radiation) for extended periods. 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 adaptor (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 special construction 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 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 these Rules except:
 - (I) the PPBPS trench shall be located not less than eight feet on centers;
 - (II) 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;
- (D) where design sewage flow is more than 480 gallons per day, the system shall be pressure-dosed; and
- (E) the long-term acceptance rate shall not exceed 0.8 gallons per day per square foot.