

APPLICATION - PERMIT
ON-SITE WASTEWATER SYSTEM



(Please Type or Print Legibly)

OWNER'S NAME: Winchelsea, LLC PHONE: (610)633-4787 - Dan Stewart

ADDRESS: 111 Patriot Drive, Suite D, Middletown, DE 19709

PROJECT LOCATION: 2135 Winchelsea Parkway, Middletown, DE 19709

TAX/MAP #: 13-008.34-491 through -500

APPLICATION PREPARER: Carol W. Ohm DNREC LICENSE #: 2398

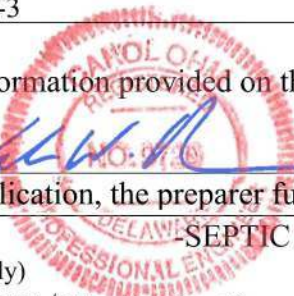
PREPARER'S ADDRESS: Apex Engineering, Inc. 27 W. Market Street, Newport, DE 19804

PHONE: (302)994-1900, x-3

I hereby affirm that the information provided on this document is accurate and complete.

Preparer's Signature: [Signature] Date: 11/12/2024

By signing this permit application, the preparer further certifies they were physically present at the site.



-SEPTIC DESIGN CRITERIA-

(Please check all boxes that apply)

System Type: (CF = Cap & Fill / FD = Full Depth)

- Gravity (FD) Permanent Holding Tank
Gravity (CF) Elevated Sand Mound
Pressure Dose (FD) Wisconsin At-Grade
Pressure Dose (CF) Subsurface Micro Irrigation
Low Pressure Pipe (FD) Peat Bio- Filter
Low Pressure Pipe (CF) Other
Temporary Holding Tank

- Bed or Trench
Gravelless Chamber Stone/Gravel Tire Chips
Sand-lined Yes No

Existing System Malfunctioning Yes No N/A

Pre-Treatment Units
Septic Tank
Other Temporary Holding Tank

Central Water Available Yes No
(If yes, please state Utility Name: Artesian Water)

Type of Construction:

- Replacement
New Construction
Component Replacement
Repair to Existing System

Authorization to Use Existing System

Permit #:
Present Condition:
Structure to be connected:

of Bedrooms: 8 units @ 300 GPD/unit
Avg. Percolation Rate: N/A
Gallons Per Day Flow: 2,400 GPD*
Minimum Sq. Ft. Req'd: N/A
Sq. Ft. Proposed: N/A

*SEE NEXT PAGE

- SITE PLAN & CROSS SECTION -
(INDICATE DIRECTIONS OF NORTH & SCALE OF SITE PLAN)

Draw a general location map of project location and give distance to nearest road junction.

VOLUME CALCULATIONS

- * Each Unit = 2 bedroom house (240 GPD)
Holding Tank to be pumped every 2 days - 480 GPD/Unit
10 Units Proposed - (10 Units) x 480 GPD = **4,800 Gal/Pumping**

Manhole volumes taken as: $\text{depth} * \pi * (r^2)$

Pipe volume taken as: $\text{length} * \pi * (r^2)$

MH 3A (72"): $57.06 - 38.74 = 18.32' * 9 * \pi = 518 \text{ cf} = 3,874.91 \text{ gallons}$

MH 23A (48"): $57.06 - 51.94 \text{ inv out} = 5.12' \text{ deep} * 4' * \pi = 64.34 \text{ cf} = 481.30 \text{ gallons}$

MH 24A (48"): $57.06 - 54.73 = 2.33 * 4 * \pi = 29.28 \text{ cf} = 219.03 \text{ gallons}$

MH 4A (72"): $57.06 - 39.26 = 17.8' * 9 * \pi = 503 \text{ cf} = 3,762.91 \text{ gallons}$

PIPES (8"): $\pi * (0.3229)^2 * 443 \text{ LF} = 145 \text{ cf} = 1,084.93 \text{ gallons}$

TOTAL STORAGE = 9,423.08 GALLONS

OWNER'S/AUTHORIZED AGENT SIGNATURE:  DATE: 11/13/2024

* A copy of this page must be submitted with both septic system and well construction report (s)