SEWAGE DISPOSAL CALCULATIONS:

Design Flowrate:

The proposed Assisted Living Facility will have a maximum capacity of 16 patients or beds and a support staff of approximately 6 persons.

Maximum Daily Sewage Flow= (16bedsX100 gpd/bed) + (6 staffX15 gpd/staff) = 1690 gpd

Sewage Disposal System Design:

Note: Please refer to Sheet 8 for a complete listing of percolation test results, relating to this property.

Proposed Primary System:

Percolation Test	Test Results	Percolation Test	Test Results
6	21 minutes	63	13 minutes
7	26 minutes	64	16 minutes
8	4 minutes	104	15 minutes
54	35 minutes	106	24 minutes

Average Tile Field Percolation Test Results = 17 minutes
Application Rate = 0.6G inches per hour per square foot
Absorptive Area = 1,690 gpd / (0.6D gpd/sq ft) = 2,817 square feet
Width of Tile Field Trench = 3feet
Length of Tile Field Trench = 2,817 square feet / 3 feet = 939 linear feet

DRAIN LINES INDICATED AS: ═══

The primary sewage disposal system shall consist of (10) ten Tile Field Sewage Drain Lines, each 3 feet wide and 54 feet long. (See Standard Tile Field Detail on Sheet #2)

NOTE: SEE SHEET 8 FOR A COMPLETE LISTING OF PERCOLATION TEST RESULTS.

First Replacement System:

Percolation Test	Test Results
13	4 minutes
15	7 minutes
67	8 minutes
68	2 minutes

DRAIN LINES INDICATED AS: = = = = = =

Average Tile Field Percolation Test Results = 10 minutes
Application Rate = 0.8D inches per hour per square foot
Absorptive Area = 1,690 gpd / (0.8D gpd/sq ft) = 2,113 square feet
Width of Tile Field Trench = 3 feet
Length of Tile Field Trench = 2,113 square feet / 3 feet = 704 linear feet

The 1st replacement sewage disposal system shall consist of (10) ten Tile Field Sewage Drain Lines, each 3 feet wide and 71 feet long. See Standard Tile Field Detail on Sheet #8)

Second Replacement System:

Percolation Test	Test Results
14	4 minutes
15	7 minutes
67	8 minutes

DRAIN LINES INDICATED AS: ≈≈≈≈≈≈≈≈≈

Average Tile Field Percolation Test Results = 7 minute
Application Rate = 0.8D inches per hour per square foot
Absorptive Area = 1,690 gpd / (0.8D gpd/sq ft) = 2,113 square feet
Width of Tile Field Trench = 3 feet
Length of Tile Field Trench = 2,113 square feet / 3 feet = 704 linear feet

The 2nd replacement sewage disposal system shall consist of (10) ten Tile Field Sewage Drain Lines, each 3 feet wide and 71 feet long. See Standard Tile Field Detail on Sheet #8)

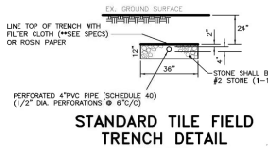
Septic Tank Design:

Tank Volume = 1,125 + (0.75)(Q)
Tank Volume = 1,125 + (0.75)(1,690 gpd) = 2,393 gallons
Use a 1,000 gallon septic tank and 1,000 gallon septic tank in series.
Use a 1,000 gallon pump chamber for this project.

FILTER CLOTH SPECIFICATIONS

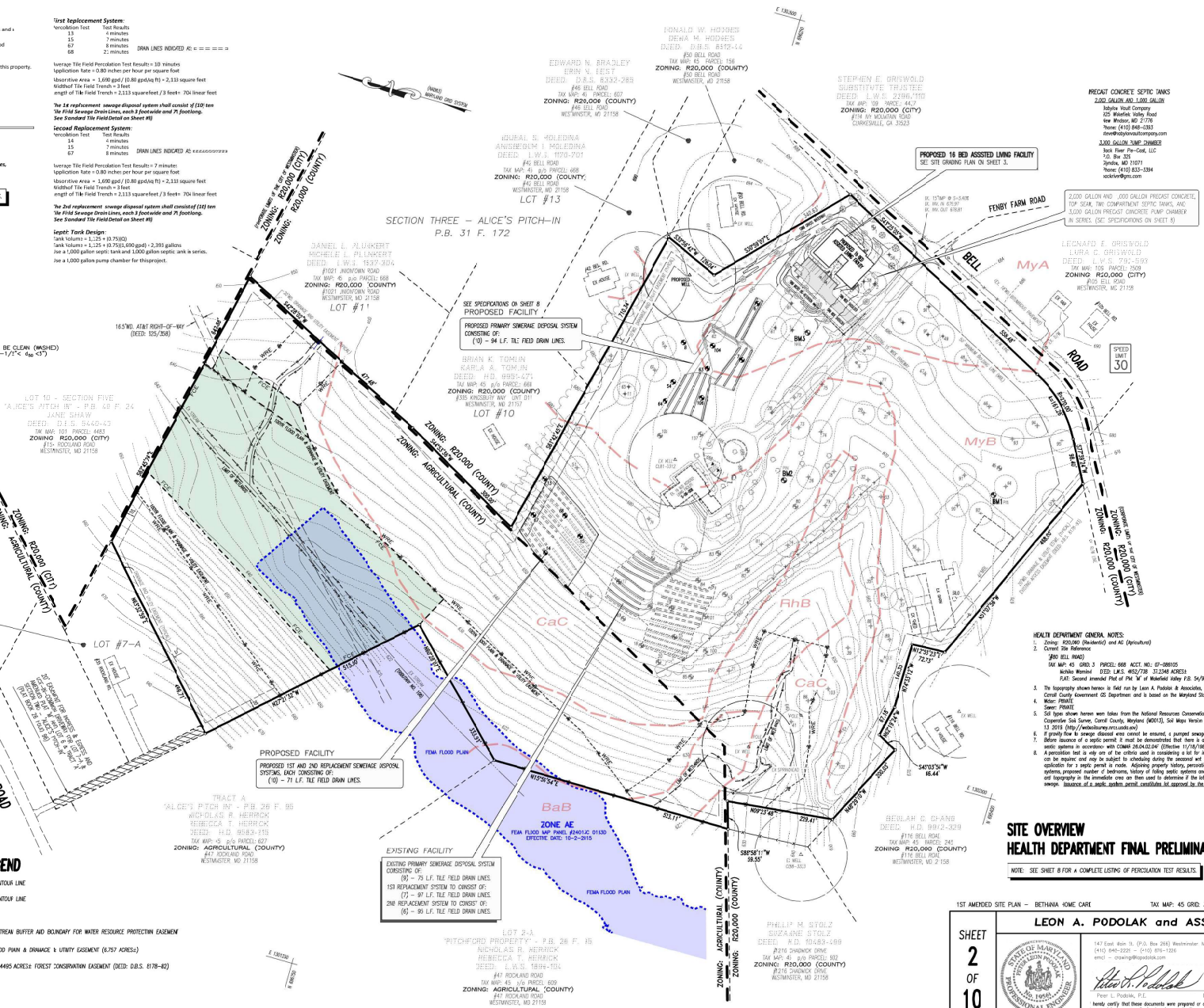
FILTER CLOTH SHALL MEET OR EXCEED THE FOLLOWING PHYSICAL PROPERTIES:

A. Permibility (ASTM D4491) = 0.1sec^{-1}(MIN)
B. Opening Size (ASTM D4751-87) = 60 (U.S. sieve size) (MAX)
C. Flowrate (ASTM D4491-85) = 10 gal/min/ft (MIN)
D. Mullen Burst (ASTM D3786) = 200 psi (MIN)



STANDARD TILE FIELD TRENCH DETAIL

NOT TO SCALE


SECTION THREE – ALICE'S PITCH-IN P.B. 31 F. 172
LOT #1'
LOT #13
LOT #10
LOT #7-A
LOT 10 - SECTION FIVE "ALICE'S PITCH IN" - P.B. 48 F. 24
JANE SHAW
DEED: D.L.S. 9640-43
TAX MAP: 101 PARCEL: 4483
ZONING: R20,000 (CITY)
#15 ROCKLAND ROAD
WESTMINSTER, MD 21158
LOT 7-A - AMENDED SECTION TWO "PITCHFORD PROPERTY" - P.B. 28 F. 84
SUZANNA H. HERRICK-BAINBRIDGE
STEVEN H. BAINBRIDGE, ET.AL.
DEED: H.D. 1094-744
#35 ROCKLAND ROAD
TAX MAP: 45 p/o PARCEL: 668
ZONING: AGRICULTURAL (COUNTY)
#35 ROCKLAND ROAD
WESTMINSTER, MD 21158
TRACT A
"ALICE'S PITCH IN" - P.B. 28 F. 86
NICHOLAS R. HERRICK
REBECCA T. HERRICK
DEED: H.D. 6583-215
TAX MAP: 45 p/o PARCEL: 627
ZONING: AGRICULTURAL (COUNTY)
#47 ROCKLAND ROAD
WESTMINSTER, MD 21158
LOT 2-A
"PITCHFORD PROPERTY" - P.B. 28 F. 15
NICHOLAS R. HERRICK
REBECCA T. HERRICK
DEED: L.W.S. 5896-104
#47 ROCKLAND ROAD
TAX MAP: 45 p/o PARCEL: 609
ZONING: AGRICULTURAL (COUNTY)
#47 ROCKLAND ROAD
WESTMINSTER, MD 21158
DANIEL L. PLUNKERT
MICHELLE L. PLUNKERT
DEED: L.W.S. 1937-304
#1021 INDIANTOWN ROAD
TAX MAP: 45 p/o PARCEL: 668
ZONING: R20,000 (COUNTY)
#1021 INDIANTOWN ROAD
WESTMINSTER, MD 21158
BRIAN K. TOMLIN
KARLA A. TOMLIN
DEED: H.D. 9895-471
TAX MAP: 45 p/o PARCEL: 668
ZONING: R20,000 (COUNTY)
#355 KINGSBURY WAY UNIT 311
WESTMINSTER, MD 21157
EDWARD N. BRADLEY
ERIN V. BEST
DEED: D.B.S. 5332-285
#46 BELL ROAD
TAX MAP: 45 PARCEL: 657
ZONING: R20,000 (COUNTY)
#46 BELL ROAD
WESTMINSTER, MD 21158
IQUBAL S. MOLEDINA
ANISBEGUM I. MOLEDINA
DEED: L.W.S. 1970-701
#42 BELL ROAD
TAX MAP: 45 p/o PARCEL: 668
ZONING: R20,000 (COUNTY)
#42 BELL ROAD
WESTMINSTER, MD 21158
DONALD W. HODGES
DENA M. HODGES
DEED: D.B.S. 6372-44
#50 BELL ROAD
TAX MAP: 45 PARCEL: 158
ZONING: R20,000 (COUNTY)
#50 BELL ROAD
WESTMINSTER, MD 21158
STEPHEN E. GRISWOLD
SUBSTITUTE TRUSTEE
DEED: L.W.S. 2396-110
TAX MAP: 102 PARCEL: 440
ZONING: R20,000 (CITY)
#114 NY MOUNTAIN ROAD
CARKESVILLE, GA 30523
LEONARD E. GRISWOLD
LURA C. GRISWOLD
DEED: L.W.S. 785-593
TAX MAP: 106 PARCEL: 709
ZONING R20,000 (CITY)
#105 BELL ROAD
WESTMINSTER, MD 21158
BEULAH C. CHANG
DEED: H.D. 9812-329
#116 BELL ROAD
TAX MAP: 45 PARCEL: 245
ZONING: R20,000 (COUNTY)
#116 BELL ROAD
WESTMINSTER, MD 21158
PHILLIP M. STOLZ
SUZANNE S. STOLZ
DEED: H.D. 1043-489
#216 CHADWICK DRIVE
TAX MAP: 42 p/o PARCEL: 190
ZONING: R20,000 (COUNTY)
#216 CHADWICK DRIVE
WESTMINSTER, MD 21158
ZONING: R20,000 (CITY)
ZONING: R20,000 (COUNTY)
ZONING: AGRICULTURAL (COUNTY)
ZONING: R20,000 (COUNTY)
ROCKLAND ROAD
BELL ROAD
FENBY FARM ROAD
SPEED LIMIT 30
PROPOSED 16 BED ASSISTED LIVING FACILITY
SEE SITE GRADING PLAN ON SHEET 3.
PRECAST CONCRETE SEPTIC TANKS
2,000 GALLON AND 1,000 GALLON
Babylon Vault Company
225 Wakefield Valley Road
New Windsor, MD 21776
Phone: (410) 848-0383
Email: babylonvaultcompany.com
3,000 GALLON PUMP CHAMBER
Back River Pre-Cast, LLC
P.O. Box 325
Joppa, MD 21071
Phone: (410) 833-5394
SEE SPECIFICATIONS ON SHEET 8
PROPOSED FACILITY
PROPOSED PRIMARY SEWERAGE DISPOSAL SYSTEM CONSISTING OF:
(10) – 94 L.F. TILE FIELD DRAIN LINES.
PROPOSED FACILITY
PROPOSED 1ST AND 2ND REPLACEMENT SEWERAGE DISPOSAL SYSTEMS, EACH CONSISTING OF:
(10) – 71 L.F. TILE FIELD DRAIN LINES.
EXISTING FACILITY
EXISTING PRIMARY SEWERAGE DISPOSAL SYSTEM CONSISTING OF:
(9) – 75 L.F. TILE FIELD DRAIN LINES.
1ST REPLACEMENT SYSTEM TO CONSIST OF:
(7) – 97 L.F. TILE FIELD DRAIN LINES.
2ND REPLACEMENT SYSTEM TO CONSIST OF:
(6) – 99 L.F. TILE FIELD DRAIN LINES.
ZONE AE
FEMA FLOOD MAP PANEL #24013C 0113D
EFFECTIVE DATE: 10-2-2015
FEMA FLOOD PLAIN
CaC
RhB
MyA
MyB
BaB
BM1
BM2
BM3
S72°57'57"W 1,204.7'
S72°57'57"W 1,204.7'
S72°57'57"W 1,204.7'