

Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Main: 410-313-2640 | Fax: 410-313-2648
 TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
 Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 11/23/21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 570860

APPROVAL DATE: 12/15/2021 **PERMIT:** Upgrade A _____

RD Trench only.

PROPERTY ADDRESS: 14701 McCann Farm Road

SUBDIVISION: McCann Farm Estates LOT: 1 TAX ID: _____

CONTRACTOR: Fogles Septic Clean Inc. EMAIL: kim@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670

PROPERTY OWNER: John Sung and Kim Woomi EMAIL: _____

OWNER ADDRESS: 14701 McCann Farm Road, Woodbine, MD 21797 PHONE: _____

SEPTIC TANK SIZE (GALLONS): N/A PUMP CHAMBER CAPACITY (GALLONS): — PUMP SIZE: —

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. — APPLICATION RATE: 1.07 gpd/ft²

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

| | | |
|-----------|--|---------------------------------------|
| TRENCHES: | LINEAR FEET REQUIRED: <u>58'</u> | INLET DEPTH: <u>3'-4'</u> |
| | TRENCH WIDTH: <u>4'</u> | MAXIMUM BOTTOM DEPTH: <u>6</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: <u>N/A</u> | EFFECTIVE AREA BEGINNING DEPTH: _____ |
| LOCATION: | TO BE STAKED BY SANITARIAN DURING PRE-CONSTRUCTION INSPECTION. | |
| NOTES: | <u>Install trench per approved plans.</u> | |

ISSUED BY: K. Wolf ISSUE DATE: 12/2/21 EXPIRATION DATE: 12/2/22

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E N/A
- NOTE: THE HCHD DOES NOT WARRANTY ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE

TRENCH/DRAINFIELD DATA

| WIDTH | INLET | BOTTOM |
|-------------------------|-------|--------|
| 4' | 3.5' | 6' |
| NUMBER OF TRENCHES | | 1 |
| TOTAL LENGTH | | 59' |
| ABSORPTION AREA | | — |
| DISTRIBUTION BOX LEVEL | | N/A |
| DISTRIBUTION BOX BAFFLE | | N/A |
| DISTRIBUTION BOX PORT | | N/A |

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

PUMP/SEPTIC TANK LEVEL

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

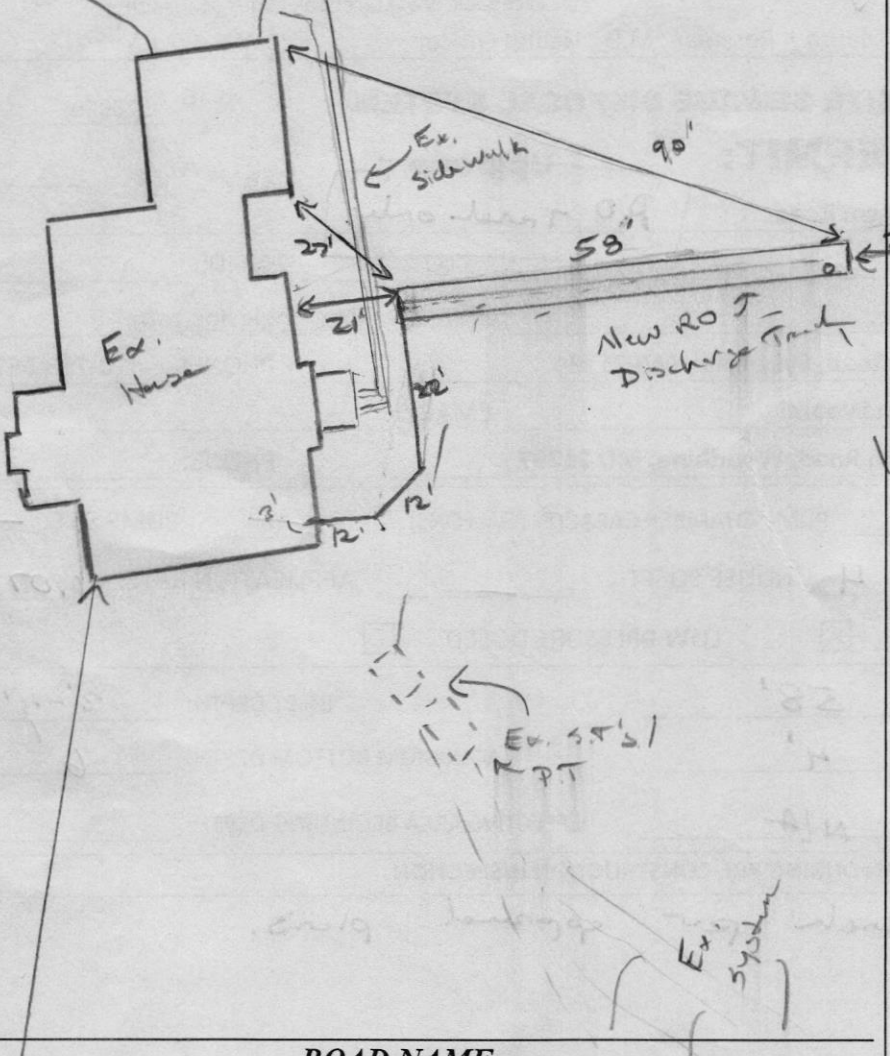
MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____



ROAD NAME

PRE-CONSTRUCTION:

12/14/21 Contour shot in open area where pore B was dug. Adjusted slightly as area was level in some spots. Call for reparation.

Ex Well

(HO-94-3330)

INSTALLATION:

12/15/21 (am) Trench dug, partial stored. Trench slightly wider than 4', more like 4' 4". OK to continue (km)

(pm) Trench just about finished. 4" installed into ex. house, for corner, front. OK to comm all work.

FINAL INSPECTOR

K. Wary

DATE OF APPROVAL

12/15/2021



HOWARD COUNTY HEALTH DEPARTMENT

70860

DATE 11/23/24

Received From

Fogles Septic

PHONE #

410-795-5010

For

Balance of upgrade
McCabe Inn + farm
RD.

CASH

CHECK

NO.

7402

Two hundred thirty one

Dollars

\$

231 00

Received By

King



HOWARD COUNTY HEALTH DEPARTMENT

70856

DATE
11/19/21

p5

Received From

Togler's Septic Clean Inc.

PHONE #

410-795-5670

For

Septic Repair in McCann Property
14701 McCann isom Road

CASH

CHECK

NO.

73991

One hundred sixty five

00/100 Dollars

\$

165.00

Received By

[Signature]

Maura J. Rossman, M.D., Health Officer

INFORMATION FORM - SEPTIC SYSTEM REPAIR/UPGRADE

Reason for Request:

- Failing System
- System relocation for proposed addition
- System upgrade for proposed addition
- Inadequate treatment zone
- Collapsed septic tank
- Collapsed drywell
- RO system

Existing system design

- Drywell
- Trench
- Mound
- Unknown
- Other: RO

Has the septic tank been pumped within the last month?

- Yes
 - No
- Date pumped: _____

Was a visual inspection of the septic tank and/or drain fields conducted?

- Yes Explain observation: _____
- No

Was a visual inspection of the sewage line conducted?

- Yes
- No

Blockage Leading to the field

- Yes Explain _____
- No

Is discharge surfacing on the ground?

- Yes
- No

Additional Comments:

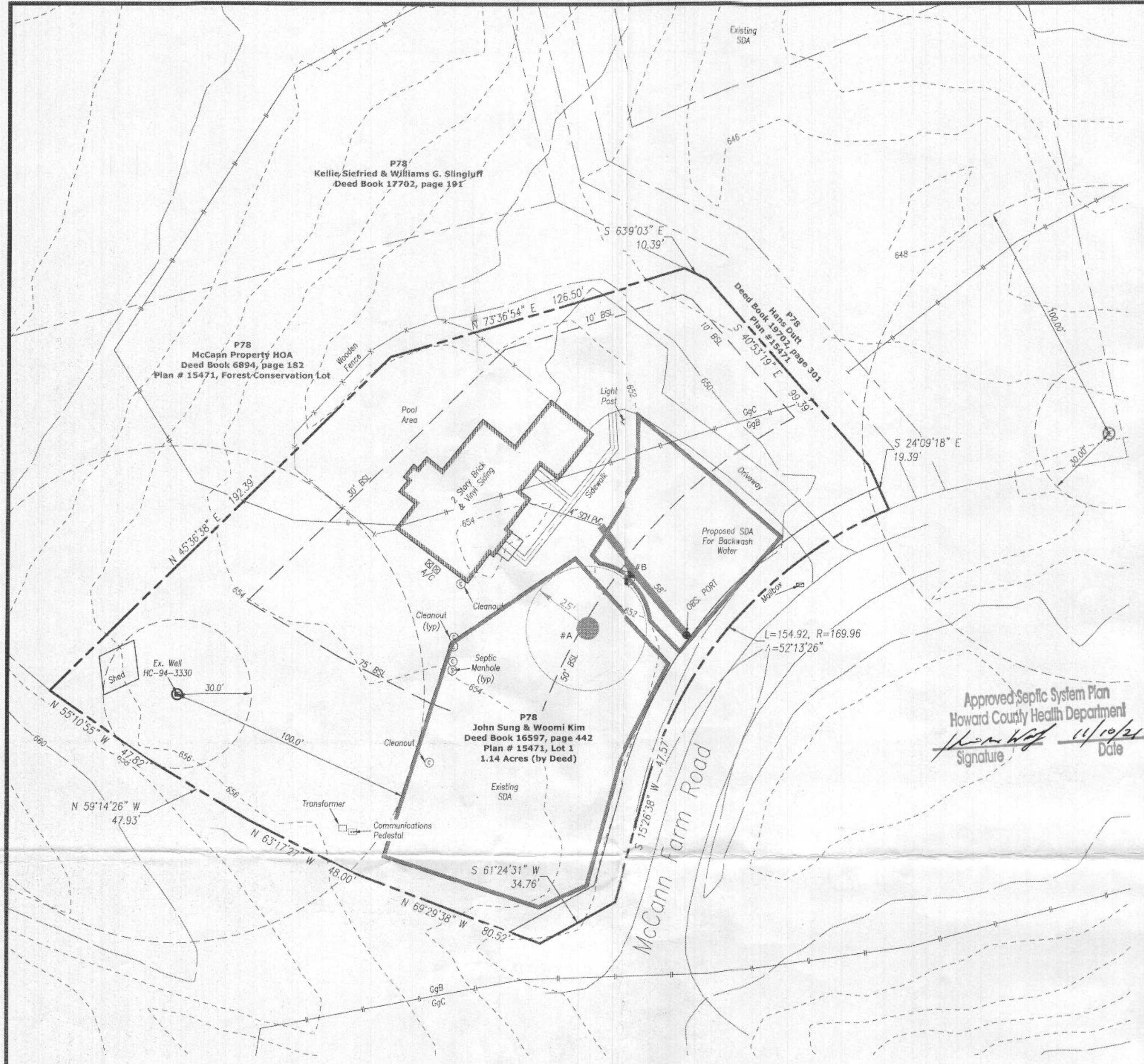
Kevin Wolf is familiar with this

*For REPAIRS, are the owners proposing, or do they plan to add in the future any additions or modifications to the property, i.e. pools, living space additions, garages, etc? This information must be disclosed at the time of this application. The Health Department will not be able to accommodate requests in the field for property modifications unrelated to the repair request. Such requests may require an additional fee, testing, and submittal of a Percolation Certification Plan, if the property does not meet current Code and Regulations.

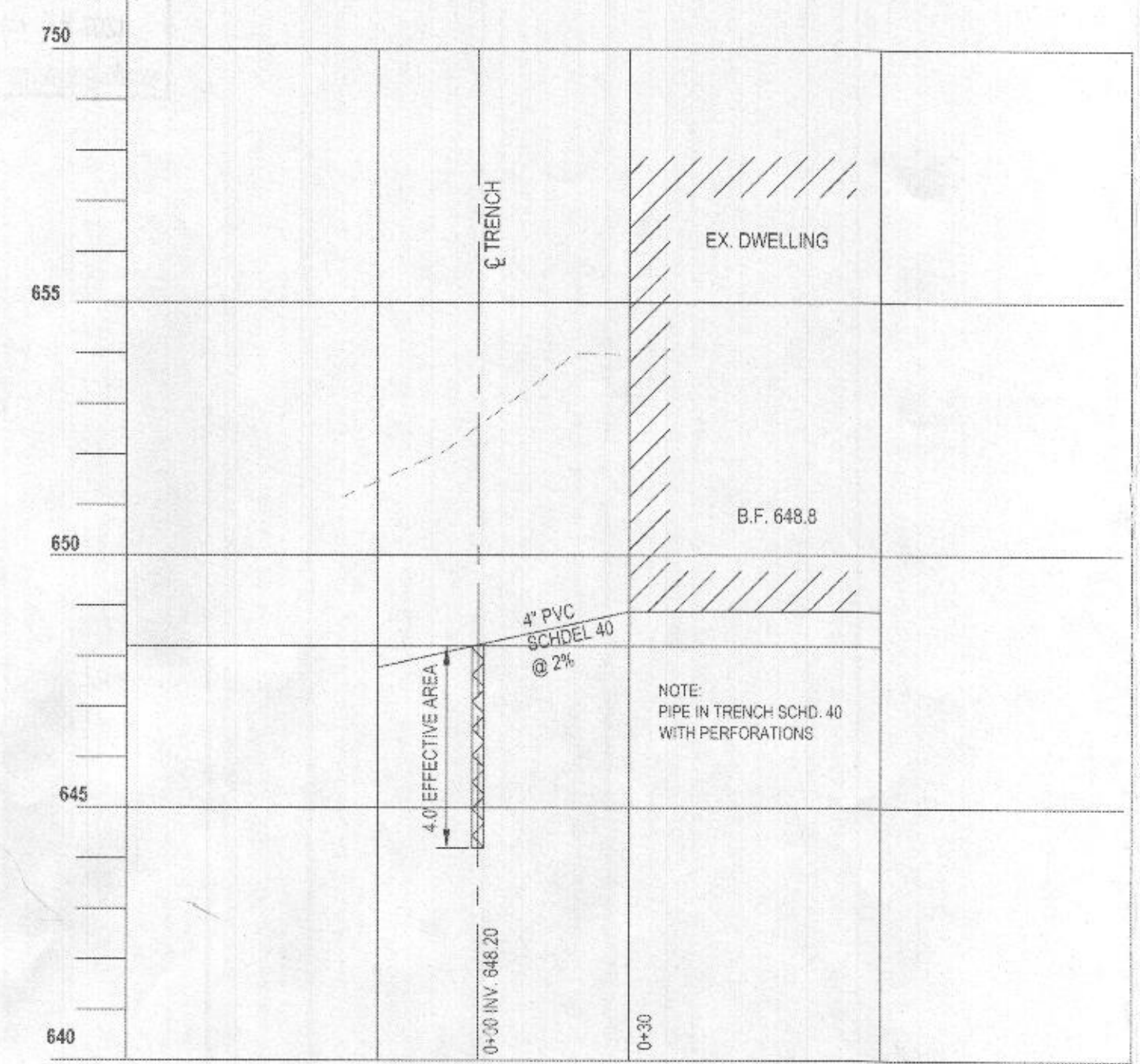
Septic Contractor: Fogle's Septic Clean Contractor's Phone: 410-795-5670
 Contractor's Address: 580 Obrecht Rd Seoksville 21784
 Property Address: 14701 McCann Farm Rd County File: 366832
 Subdivision: McCann Property Lot: 1 Year Built: 2003
 Owner's Name: John Sung Existing bedrooms: _____
 Name of previous owners: _____ Existing bedrooms: _____
 Proposed bedrooms: _____

*A Sanitarian will be in contact within three business days, depending upon the urgency of the situation, to coordinate the scheduling/review of the repair or upgrade.
 Prior to scheduling inspections, scaled plans should be submitted to clarify the nature of the addition.
 Print out a copy of Real Property Data via Dept. of Taxation website _____ Indexed file found _____
 If soil/site conditions are limited and sewer and/or Metro District status is not conducive to connection, the Sanitarian may recommend pursuit of Emergency Sewer Extension or Emergency Metro District Inclusion. The Owner should contact the Bureau of Utilities for details.
 No permit is to be issued nor inspection to be scheduled without prior fee collection at the office unless an emergency exists.
 The contractor is to notify the office of the emergency as soon as possible.

2/2020

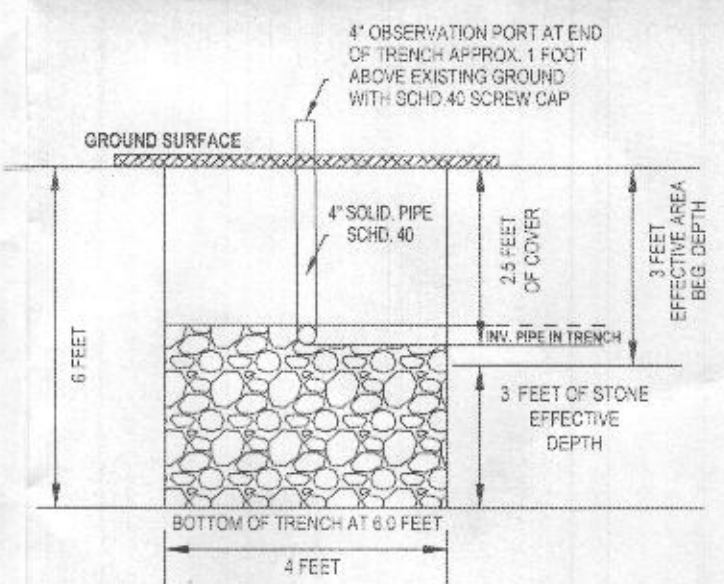


Approved Septic System Plan
 Howard County Health Department
 Signature: *[Signature]* Date: 11/10/21



STATION SEPTIC PROFILE
 SCALE: H: 1" = 30" V: 1" = 3'

| Trench# | Trench Length | Inv. of Pipe at Trench | Elevation bottom of trench | Existing Ground |
|---------|---------------|------------------------|----------------------------|-----------------|
| 1 | 58' | 648.2 | 642.2 | 652.5 |



STANDARD TRENCH DETAIL
 NOT TO SCALE

4 BEDROOM TRENCH DESIGN FOR RO BACKWASH SYSTEM

Deep Trench With 4ft. of Stone
 Design flow - 150 Gal./Br.
 4br. x 150 Gal. = 600 Gal./Day = Design Flow (DF)
 Application Rate of 1.07 Gal. per Day/ Square Feet
DF = AR = Square Feet of Required Trench
 300 Gal./Day = 1.07 Gal. per Day/ Square Feet = **280 SF of Required Trench**
Length of Trench (Width Adjustment)
 Square Feet ÷ Width of Trench
 280 SF ÷ 4ft = **70 SF**
Sidewall Reduction Credit
 0.83
Length of Trench (Depth Adjustment)
 Square Feet of Trench Required (after length adjustment) X Sidewall Reduction Credit
 70 SF X 0.83 = **58 FT. Length of Trench Required**
Trench Design Per System
 58 FT. Length of Trench Required

GENERAL NOTES

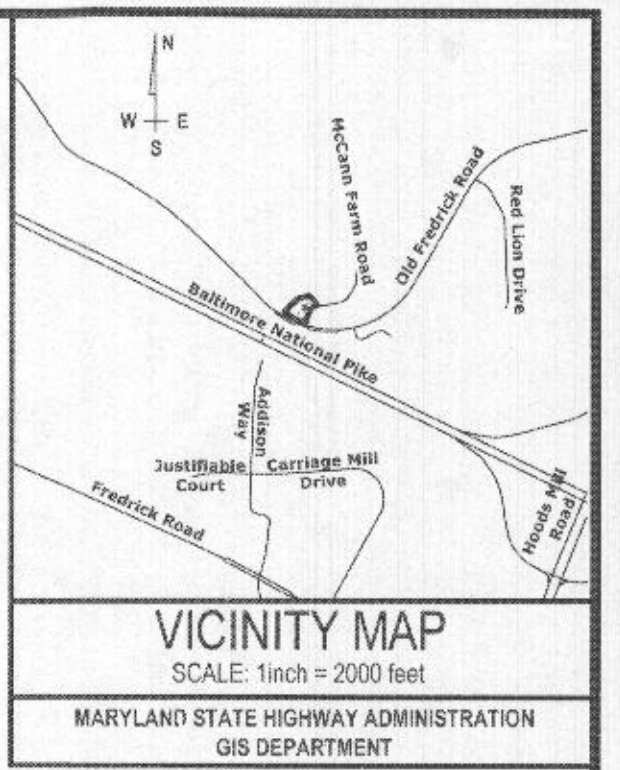
- Current Title References
- Owner - Jhn Sung & Woomi Kim
- Case reference - 16597 / 442
- Date - 1/25-15
- Grantor - Alexander Scott Pagorella
- The outline shown hereon is based on deed information and field survey by BPR LLC, May 13, 2021.
- The 1' contours as shown hereon were developed using Howard County LIDAR products.
- There are no other wells or septic systems within 100 feet of the property boundary unless otherwise shown hereon.
- This area designates a private area for disposal of the Backwash from Water Treatment Units as required by the Maryland Department of the Environment for individual sewage disposal. For lots created prior to March 1972 it provides the least amount of area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This area shall become null and void upon connection to a public sewerage system. The county Health Officer shall have the authority to grant adjustments to the private area for disposal of the Backwash from Water Treatment Units. Reconnection of a modified sewage area shall not be necessary.
- The lot shown hereon complies with the minimum ownership, width, and lot area as required by the Maryland Department of the Environment.
- Existing wells, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient if existing or proposed septic systems or sewage disposal areas have been shown.
- Any changes to a private sewage area shall require a revised permit certification plan.
- The soils pass shown hereon have been taken from The United States Department of Agricultural, Natural Resources Conservation Service Web Soil Survey.
- The lot(s) shown hereon complies with the minimum ownership width and lot area as required by the Maryland Department of Environment.
- This area designates a private sewage disposal area of at least 10,000 sq. ft. as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage disposal area of a revised sewage easement shall not be necessary.
- Landowner is responsible for call Miss Utility to confirm no utilities are in the proposed area.

PURPOSE NOTE

The purpose of this plan is to provide a sewage disposal area for backwash water from a water treatment unit for the existing house.

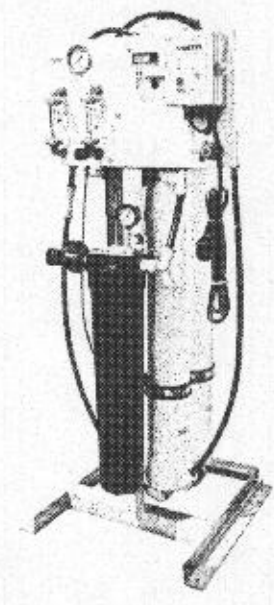
| LEGEND | |
|--------|---------------------------------|
| | Denotes Existing Well |
| | Denotes Percolation Test Passed |
| | Denotes Percolation Test Failed |

OWNER / DEVELOPER
 JOHN SING & WOOMI KIM
 14701 MCCANN FARM ROAD
 WOODBIE, MD 21797-0000
 PH: 410-853-8369



REVERSE OSMOSIS INSTALLATION AND OPERATION MANUAL

Model R4X40



1. INTRODUCTION

The separation of dissolved solids and water using RO membranes is a pressure driven temperature dependent process. The membrane material is designed to be as permeable to water as possible, while maintaining the ability to reject dissolved solids.

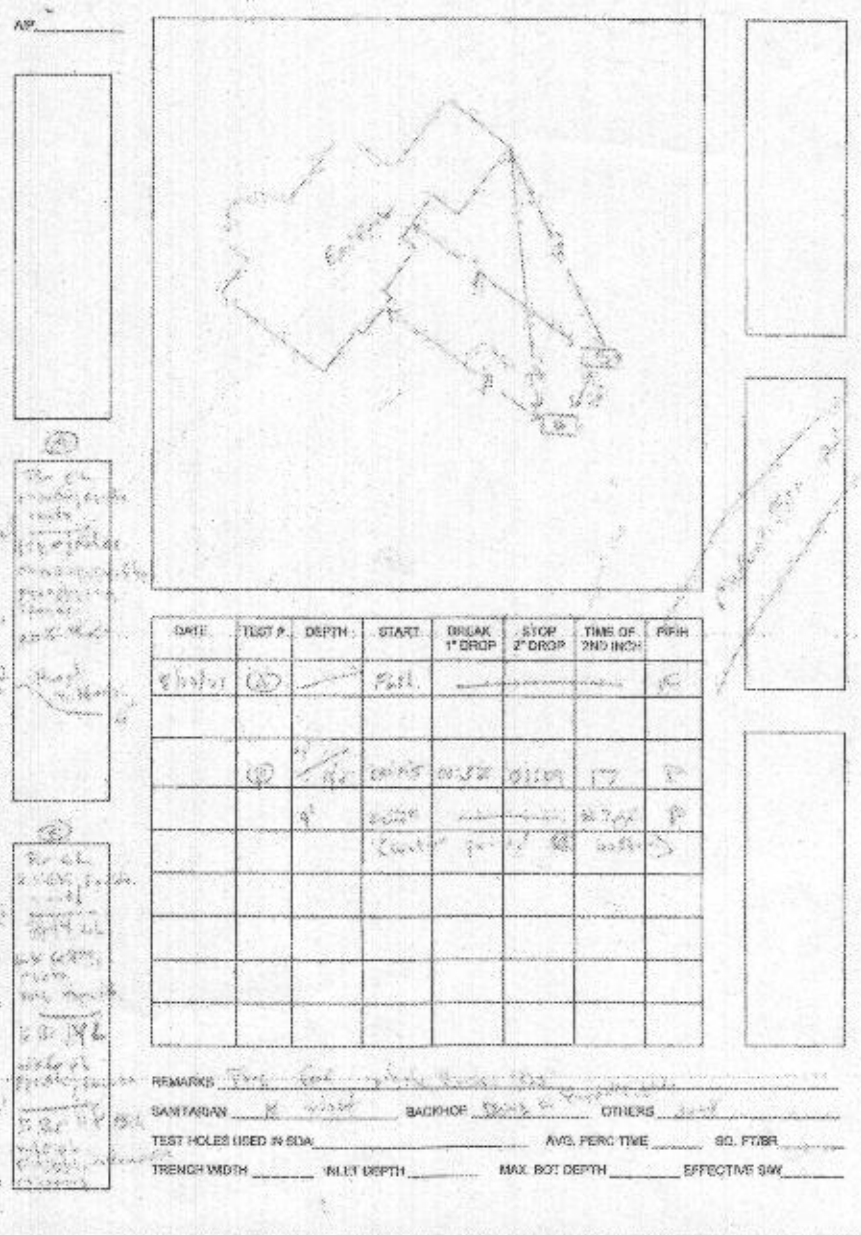
The main system design parameters require the following:

- Internal flows across the membrane surface must be high enough to prevent settling of fine suspended solids on the membrane surface.
- The concentration of each dissolved ionic species must not exceed the limits of solubility anywhere in the system.
- Pre-treatment must be sufficient to eliminate chemicals that would attack the membrane materials.

A. SPECIFICATIONS

| | R4X40-1 | R4X40-2 | R4X40-3 |
|---|----------------|----------------|----------------|
| Maximum Productivity (gallons per day) | 2200 | 4400 | 6600 |
| Quality (average membrane rejection) | 99% | 99% | 99% |
| Recovery (user adjustable) | 15 - 75% | 25 - 75% | 32 - 75% |
| Membrane Size | 4" x 40" | 4" x 40" | 4" x 40" |
| Number Of Membranes | 1 | 2 | 3 |
| Pre-filter (carbon chips with one 1 micron cartridge) | 5" | 5" | 5" |
| Feed Water Connection | 1/2" NPT | 1/2" NPT | 1/2" NPT |
| Product Water Connection (tubing OD) | 5/8" | 5/8" | 5/8" |
| Reject Water Connection (tubing OD) | 5/8" | 5/8" | 5/8" |
| Feed Water Required (maximum) | 10 gpm | 12 gpm | 14 gpm |
| Feed Water Pressure (minimum) | 10 psi | 10 psi | 10 psi |
| Drain Required (no drain) | 10 gpm | 12 gpm | 14 gpm |
| Electrical Requirement (60 Hz) | 120 V, 20 amps | 120 V, 20 amps | 120 V, 20 amps |
| Motor Horse Power | 3/4 | 1 | 1 1/2 |
| Dimensions W x D x H (approximate inches) | 20 x 20 x 50 | 20 x 26 x 50 | 20 x 26 x 50 |
| Shipping Weight (estimated pounds) | 170 | 150 | 180 |

- Notes:
- Maximum productivity based on a feed water of 77°F, SDI < 1, 1000 ppm TDS, and pH 7.
 - Individual membrane productivity may vary (+/- 15%). May be operated on other feed waters with reduced capacity.
 - Percent Rejection is based on membrane manufacturer specifications; overall system percent rejection may be less.



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: *[Signature]* DATE: 11/10/21

SIMPLIFIED TEST PLAN & DESIGN FOR A "RO BACKWASH SYSTEM"

14701 MCCANN FARM ROAD
 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP - 8 GRID - 16 PARCEL - 78 PLAN - 15471

DATE: 10-7-21
 10-28-21

REVISIONS
 REVISED PER CO. COMMENTS
 REVISED PER CO. COMMENTS

BY: MDM
 MDM

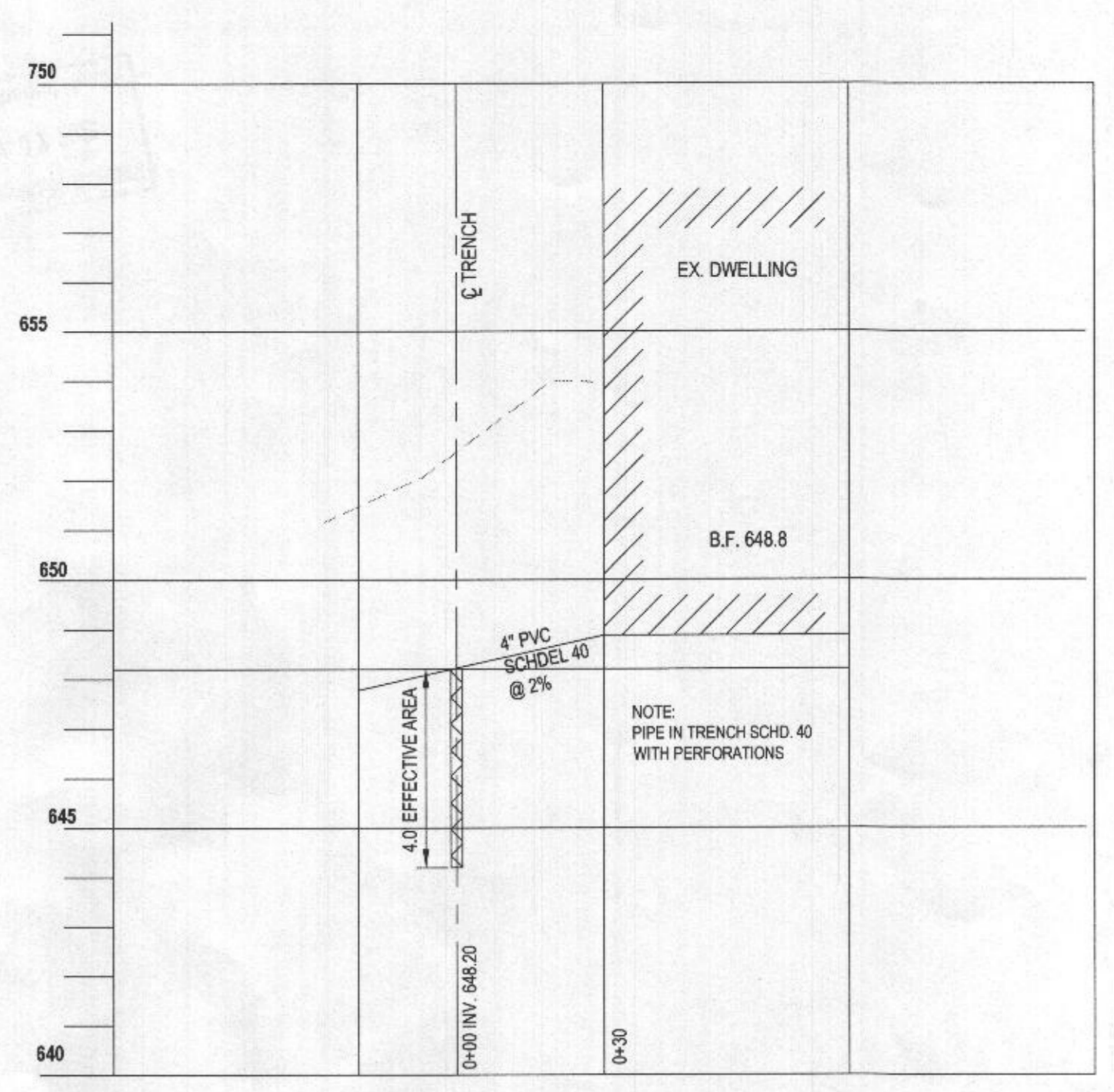
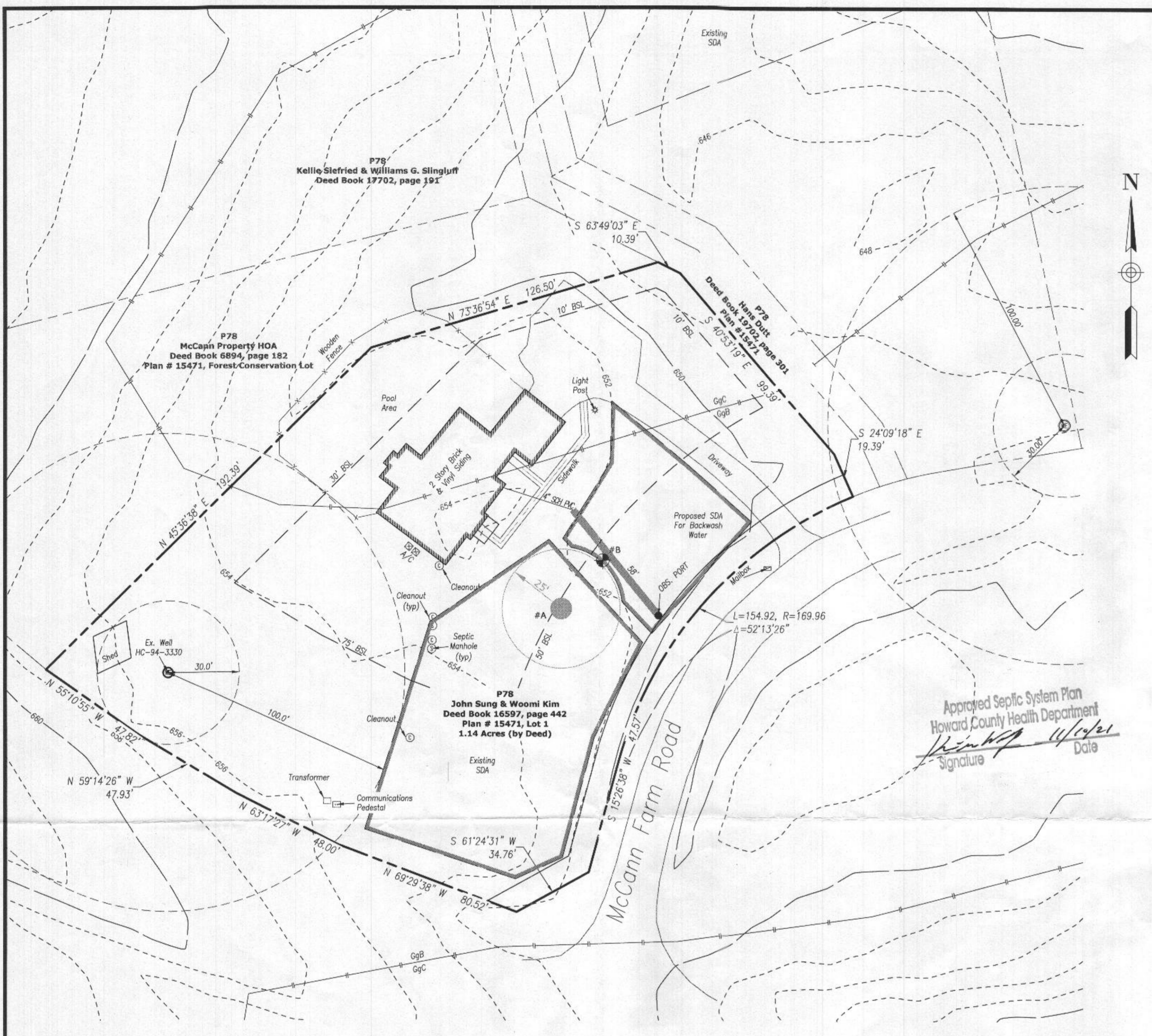
Surveyed By: BPR
 Computed By: BPR
 Drawn By: J. R. Garris
 Checked By: RLB
 Drawing No.: 21-0437

OWNER / DEVELOPER
 JOHN SING & WOOMI KIM
 14701 MCCANN FARM ROAD
 WOODBIE, MD 21797-0000
 PH: 410-853-8369

BPR LLC
 SURVEYORS - LAND PLANNERS
 150 Airport Drive
 Suite 4
 Westminster, Maryland 21157
 Phone: (410)-857-4930
 or (410)-876-0333
 Fax: (410)-876-1532
 www.bprsurveying.com

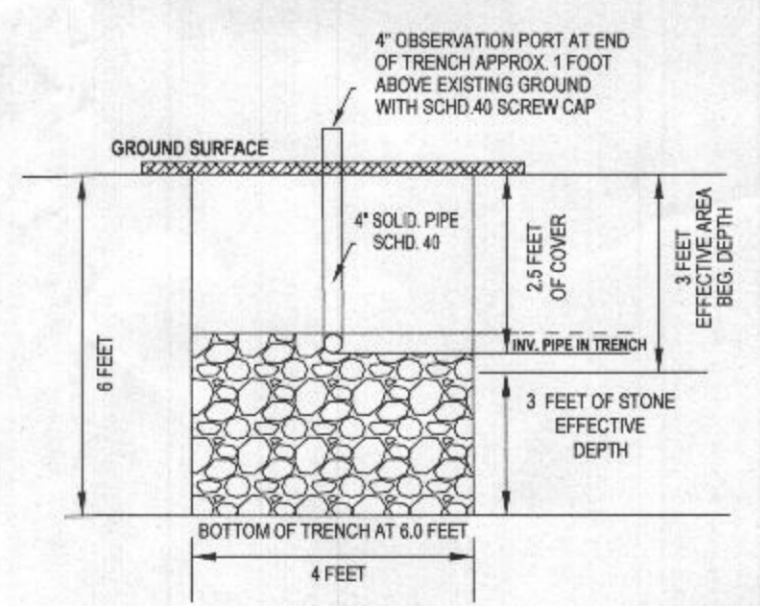
Date: July 8, 2021 Scale: 1" = 30' Sheet 1 of 1

A licensed Maryland Surveyor either personally prepared the Survey as shown hereon, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with chapter 09.13.05.12 of the Maryland Minimum Standards of Practice for Land Surveyors.



STATION SEPTIC PROFILE
SCALE: H: 1" = 30' V: 1" = 3'

| TRENCH INFORMATION INITIAL SYSTEM | | | | |
|-----------------------------------|---------------|------------------------|----------------------------|-----------------|
| Trench# | Trench Length | Inv. of Pipe at trench | Elevation bottom of trench | Existing Ground |
| 1 | 58' | 648.2 | 642.2 | 652.5 |



STANDARD TRENCH DETAIL
NOT TO SCALE

4 BEDROOM TRENCH DESIGN FOR RO BACKWASH SYSTEM

Deep Trench With 4ft. of Stone

Design flow - 150 Gal./Br.
4br. x 150 Gal. = 600 Gal / Day = Design Flow (DF)

Application Rate of 1.07 Gal. per Day/ Square Feet

DF ÷ AR = Square Feet of Required Trench
300 Gal / Day ÷ 1.07 Gal. per Day/ Square Feet = 280 SF of Required Trench

Length of Trench (Width Adjustment)
Square Feet ÷ Width of Trench
280 SF ÷ 4ft = 70 SF

Sidewall Reduction Credit
0.83

Length of Trench (Depth Adjustment)
Square Feet of Trench Required (after length adjustment) X Sidewall Reduction Credit
70 SF X 0.83 = 58 FT. Length of Trench Required

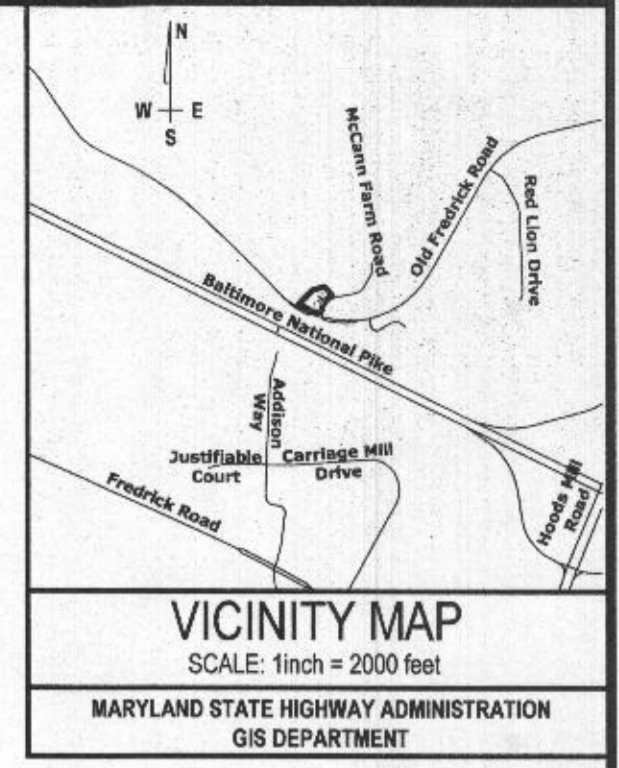
Trench Design Per System
58 FT. Length of Trench Required

GENERAL NOTES

- Current Title Reference
Owner - John Sung & Woomi Kim
Deed reference - 16597 / 442
Date - 12-15-15
Grantor - Alexander Scott Pagnotta
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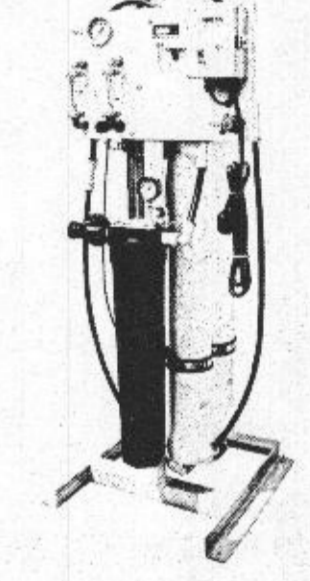
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REVERSE OSMOSIS INSTALLATION AND OPERATION MANUAL

Model R4X40



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| Membrane Size | 4" x 40" | 4" x 40" | 4" x 40" |
| Number of Membranes | 1 | 2 | 3 |
| Pre-filter (optional) (slips with one 5 micron cartridge) | 30" | 30" | 30" |
| Feed Water Connection | 1/2" NPTF | 1/2" NPTF | 1/2" NPTF |
| Product Water Connection (tubing 1/4") | 5/8" | 5/8" | 5/8" |
| Reject Water Connection (tubing 1/2") | 5/8" | 5/8" | 5/8" |
| Feed Water Required (maximum) | 10 gpm | 12 gpm | 14 gpm |
| Feed Water Pressure (minimum) | 18 psi | 18 psi | 18 psi |
| Feed Water Pressure (maximum) | 10 gpm | 12 gpm | 14 gpm |
| Electrical Requirement (60 Hz) | 120 V - 15 amps | 120 V - 20 amps | 240 V - 12 amps |
| Motor Horse Power | 3/4 | 3/4 | 1.12 |
| Dimensions W x D x H (approximate inches) | 20 x 20 x 50 | 20 x 20 x 50 | 20 x 20 x 50 |
| Shipping Weight (estimated pounds) | 120 | 150 | 180 |

- Note:
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT

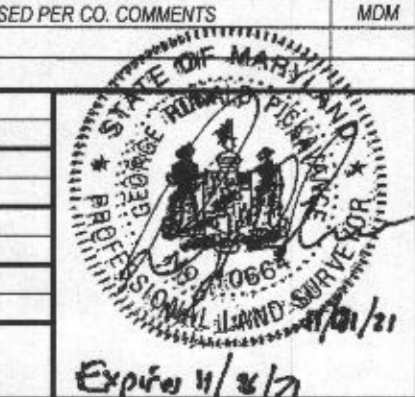
I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: *[Signature]* DATE: 11/01/21

SIMPLIFIED TEST PLAN & DESIGN FOR A "RO BACKWASH SYSTEM"

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4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP - 8 GRID - 16 PARCEL - 78 PLAN - 15471

| DATE | REVISIONS | BY |
|----------|--------------------------|-----|
| 10-7-21 | REVISED PER CO. COMMENTS | MDM |
| 10-26-21 | REVISED PER CO. COMMENTS | MDM |



BPR LLC
SURVEYORS & LAND PLANNERS
150 Airport Drive
Suite 4
Westminster, Maryland 21157
Phone: (410)-857-9030
or (410)-876-0333
Fax: (410)-876-1532
www.bprsurveying.com

Date: JULY 8, 2021 Scale: 1" = 30' Sheet 1 of 1

A licensed Maryland Surveyor either personally prepared the Survey as shown hereon, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with chapter 09.13.06.12 of the Maryland Minimum Standards of Practice for Land Surveyors.

| LEGEND | |
|--------|---------------------------------|
| | Denotes Existing Well |
| | Denotes Percolation Test Passed |
| | Denotes Percolation Test Failed |

OWNER / DEVELOPER
JOHN SUNG & WOOMI KIM
14701 MCCANN FARM ROAD
WOODBINE, MD 21787-0000
PH: 410-653-8369

| DATE | TEST | DEPTH | STATUS | REMARKS | TESTER | DATE | TEST | DEPTH | STATUS | REMARKS | TESTER |
|----------|------|-------|--------|---------|-----------|------|------|-------|--------|---------|--------|
| 11/01/21 | CO2 | 6.0 | Pass | | J.R. Gans | | | | | | |