



**Howard County  
Health Department**

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

**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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

RECEIPT DATE: 11-15-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570248

APPROVAL DATE: 4/1/22 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 5640 DOSA COURT, CLARKSVILLE, MD 21029

SUBDIVISION: THE WOODLANDS LOT: 6 TAX ID: 05-601711

CONTRACTOR: HATFIELDS EQUIPMENT EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

PROPERTY OWNER: WILLIAMSBURG GROUP EMAIL: marinamorris@williamsburgllc.com

OWNER ADDRESS: 5485 HARRIS FARM LANE, COLUMBIA, MD 21044 PHONE: (410)997-8800

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: BABYLON

PUMP MODEL: WE07H PUMP SIZE: 3/4 Hp PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>82</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>12</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</u>
LOCATION:	<b>PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.</b>	
NOTES:	INSTALL TWO 45-DEGREE BENDS TO MAKE 90-DEGREE TURN BEFORE SEPTIC TANK INSTALL TWO-WAY CLEANOUT AT FIRST 45-DEGREE BEND.  A PUMP AND ALARM TEST MUST BE SATISFACTORILY COMPLETED BEFORE FINAL APPROVAL OF THIS PERMIT AND RELEASE OF USE AND OCCUPANCY.	

ISSUED BY: R BRICKER ISSUE DATE: 11/15/21 EXPIRATION DATE: 11-15-22

- 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 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 \_\_\_\_\_
- 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

SEE ATT

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH 3' INLET 2' BOTTOM 8'

NUMBER OF TRENCHES 2

TOTAL LENGTH 84 F

ABSORPTION AREA 252 SF + 45' SIDE WALL

DISTRIBUTION BOX LEVEL PUMP

DISTRIBUTION BOX BAFFLE CONC.

DISTRIBUTION BOX PORT YES

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL YES

MANUFACTURER BABYLON

CAPACITY 1500 GAL

SEAM LOC TOP

TANK LID DEPTH \_\_\_\_\_

BAFFLES YES

BAFFLE FILTER -

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED YES

DATE ON LID 12/10/2021

PUMP/SEPTIC TANK LEVEL YES

MANUFACTURER BABYLON

CAPACITY 1500 GAL

SEAM LOC TOP

TANK LID DEPTH 2.5

BAFFLES -

BAFFLE FILTER -

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED \_\_\_\_\_

DATE ON LID 12/16/2021

PRE-CONSTRUCTION:

01/21/2022 INSTALL 2x 40' TRS CONT. CONFIRMED. (P)

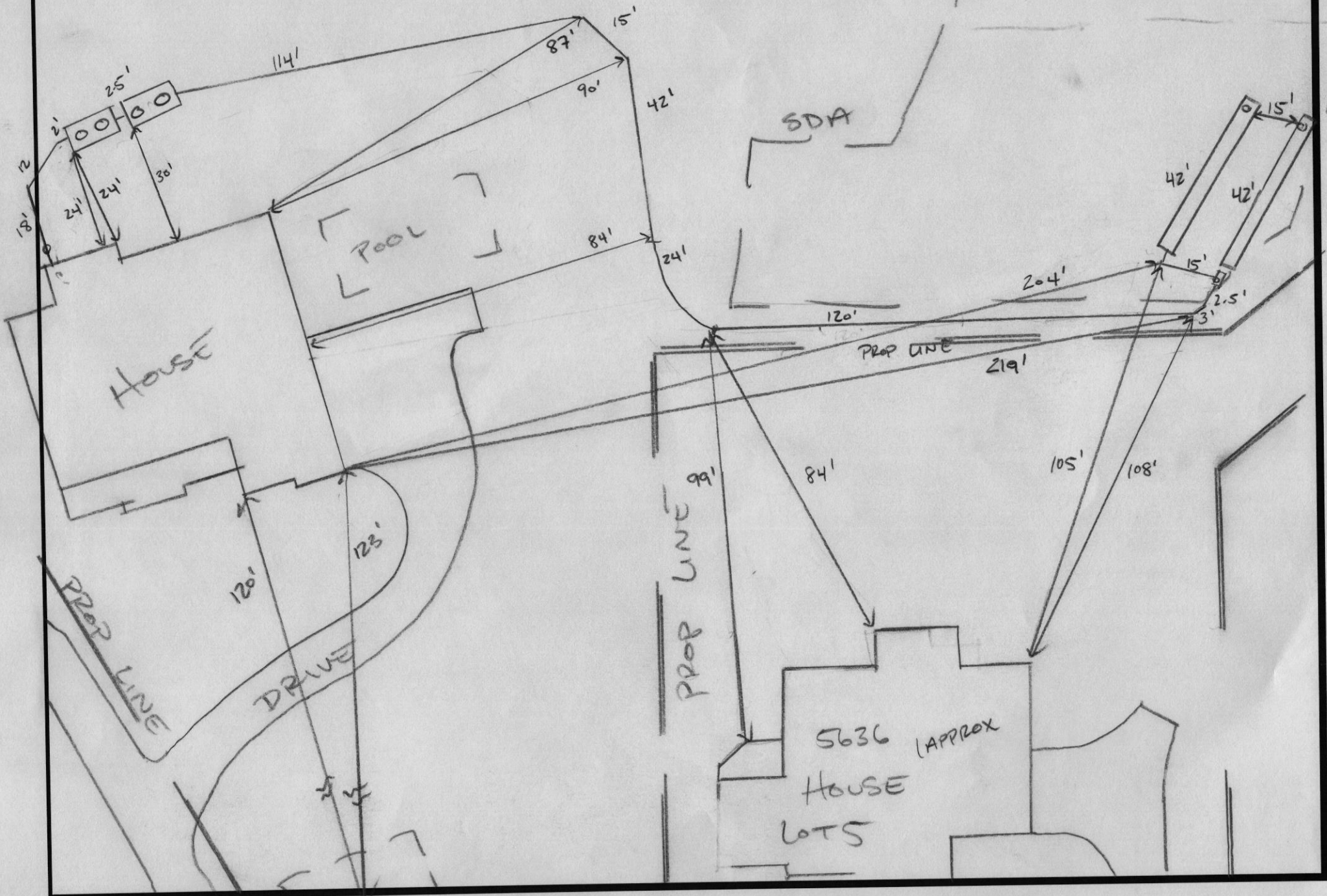
INSTALLATION: 01/26/2022 INSTALLED SHC. SL, TANKS, FM, D Box, 2x 42' TRS - OK TO BACKFILL. (P) 4/1/22 start-up / pump and alarm test complete per Joseph C. (Kne)

FINAL INSPECTOR Kne for J. Cabaly DATE OF APPROVAL 4/1/22

NOT TO SCALE

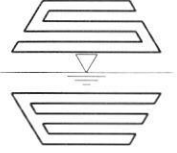
1:30

SDA



HO-18-0002

5640 DOSA COURT - LOT 6



16005 Frederick Road, 2<sup>nd</sup> Floor  
Woodbine, MD 21797  
Website: [www.sillengineering.com](http://www.sillengineering.com)

Office: 443-325-5076  
Fax: 410-696-2022  
Email: [info@sillengineering.com](mailto:info@sillengineering.com)  
Civil Engineering for Land Development

SILL ENGINEERING GROUP, LLC

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# The Woodlands

## Lot 6

### 5640 Dosa Court

## Onsite Sewage Disposal System Report

May 20, 2021  
Revised July 21, 2021

### Prepared For:

Williamsburg Group  
5485 Harpers Farm Road, Suite 200  
Columbia, Maryland 21044

OK  
MS  
8/4/21



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly Licensed Professional Engineer under the laws of the State of Maryland, License No. 32025, Expiration Date: June 20, 2023

## Pressure Network Design

- Design Flow: 750 gpd
- Diameter of force main = 2.0"
- Material: Schedule 40 PVC

## Septic System Trench Design Specifications

### Initial System:

- Design Flow:
  - 5 bedrooms at 150 gpd
  - $5 \times 150 \text{ gpd} = 750 \text{ gpd}$
- Application Rate: 1.2
  - Effective Area Beginning Depth: 3.5'
  - Bottom Maximum Depth: 8.0'
- Square Footage of Drain Field Required:
  - Design Flow (750 gpd) / Application Rate (1.2) = 625 sf
- Sidewall Reduction Credit:
  - Trench Width (W) = 3'
  - Trench Effective Depth (D) = 4.5'
  - $(W+2) / (W+1+2D) \times 100 = 39\%$
- Linear Length of Trench Required:
  - $$\frac{\text{Drain Field Square Footage (625)} \times \text{Sidewall Reduction Credit (0.39)}}{\text{Trench Width (3')}}$$
  - Liner Length of Trench Required = 81.25'
- Linear Length of Trench Provided = 82.0'
  - Two trenches at 41.0 lf each

## Pumping System Design

- Dose Calculations:
  - Design Flow: 750 gpd
  - Force Main: 310.94'
  - Volume of 2.0" pipe: 17.4 gallons per 100'
    - Dose to be the larger of:
    - $1/6^{\text{th}}$  the design flow:  $1/6 \times 750 \text{ gallons} = 125 \text{ gallons}$
    - OR
    - Volume of Force Main:  
54.10 gallons
  - Minimum Dose = 125 gallons + 54.10 gallons = 179.1 gallons

The Woodlands, Lot 6

5640 Dosa Court

July 21, 2021

- Pump Design:
  - Pump flow required: 36 gpm.
  - Dose amount: 180 gallons
  - Pump run time: 5.0 minutes
  - Static head (see profile for detail): 35.39'
- Pipe Lengths:
  - 2.0" Force Main: 310.94'
- Friction head calculation (Table 4.3):

Pipe	2.0" Force Main	3.0" Manifold	1.5" Lateral
1/4 Bend (90°)	3 @ 7.0' = 21.0	-	-
1/8 Bend (45°)	5 @ 4.0' = 20.0'	-	-
1/16 Bend (22.5°)	1 @ 2.0' = 2.0'	-	-
1/32 Bend (11.25°)	2 @ 1.0' = 2.0'	-	-
5° Sweep	-	-	-
Standard Tee	-	-	-
Run Tee	-	-	-
Cross	-	-	-
Reducer	-	-	-
Couplings	19 @ 2.0' = 38.0'	-	-
Quick Connect/Disconnect	1 @ 1.35' = 1.35'	-	-
Total Equivalent Length of pipe	84.35'	N/A	N/A

- Flow at 2.0" pipe (force main) = 36 gpm
  - Friction loss per 100' (Table 4.4) of 2.0" schedule 40 plastic pipe: 2.16
  - Total equivalent length of 2.0" FM and appurtenances =  
 $310.94' + 84.35' = 395.29' / 100 = 3.953 \times 2.16 = 8.54'$

- Total Friction Head = 8.54'

- Total Dynamic Head = Static head + Friction head =  
 $35.39' + 8.54' = 43.93'$  Use 44'

The Woodlands, Lot 6

5640 Dosa Court

July 21, 2021

- Pump Chamber Design:

- For pump tank dimensions and detail, see plans.

- Cross sectional area of tank: 57.2288 cf per one vertical foot

- Pump chamber elevations:

  - Proposed grade at top of tank (at inlet): 419.53

  - Top of pump tank (interior): 417.46

  - Pump chamber invert in: 416.61

  - High Water Alarm: 415.29

  - Pump On: 414.79

  - Pump Off: 414.37

  - Bottom inside slab of tank: 412.44

- Pump Chamber volumes:

  - Invert In to High Water Alarm: 75.5420 cf or 565.05 gallons

  - Pump On to Pump Off: 24.0361 cf or 179.80 gallons

  - Excess volume above Pump On: 152.8009 cf or 1,142.95 gallons

- Design based on:

  - Goulds WE07H series pump or equivalent

  - Babylon Vault 1,500-gallon septic tank or equivalent

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	"K" FACTOR
GaC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37
MdD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.24

- NOTES:
- SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY, SOILS GRID 12, SUB-GRID 205.
  - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR "K" GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

### SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

- INITIAL SYSTEM SYSTEM**
- APPLICATION RATE: 1.2
  - EFFECTIVE AREA BEGINNING DEPTH: 3.5'
  - BOTTOM MAXIMUM DEPTH: 8.0'

- DESIGN FLOW:**
- 5 BEDROOMS AT 150 GALLONS PER DAY (GPD)
  - 5X150 GPD = 750 GPD
- SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (750 GPD) / APPLICATION RATE (1.2) = 625 SF
- SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3.0'
  - TRENCH EFFECTIVE DEPTH (D) = 4.5'
  - $(W^2) / (W+1.2D) \times 100 = 39\%$
- LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (625) X SIDEWALL REDUCTION CREDIT (39%) / TRENCH WIDTH (3.0') = 81.25'
- LINEAR LENGTH OF TRENCH PROVIDED = 82'**
- TWO TRENCHES AT 41 LF EACH
- EXISTING GROUND:**
- TRENCH R1: 450.0
  - TRENCH R2: 448.0
- INVERT:**
- TRENCH R1: 447.6
  - TRENCH R2: 445.6

**FIRST REPLACEMENT (REP.) SYSTEM**

- APPLICATION RATE: 1.2
- EFFECTIVE AREA BEGINNING DEPTH: 4.5'
- BOTTOM MAXIMUM DEPTH: 8.0'

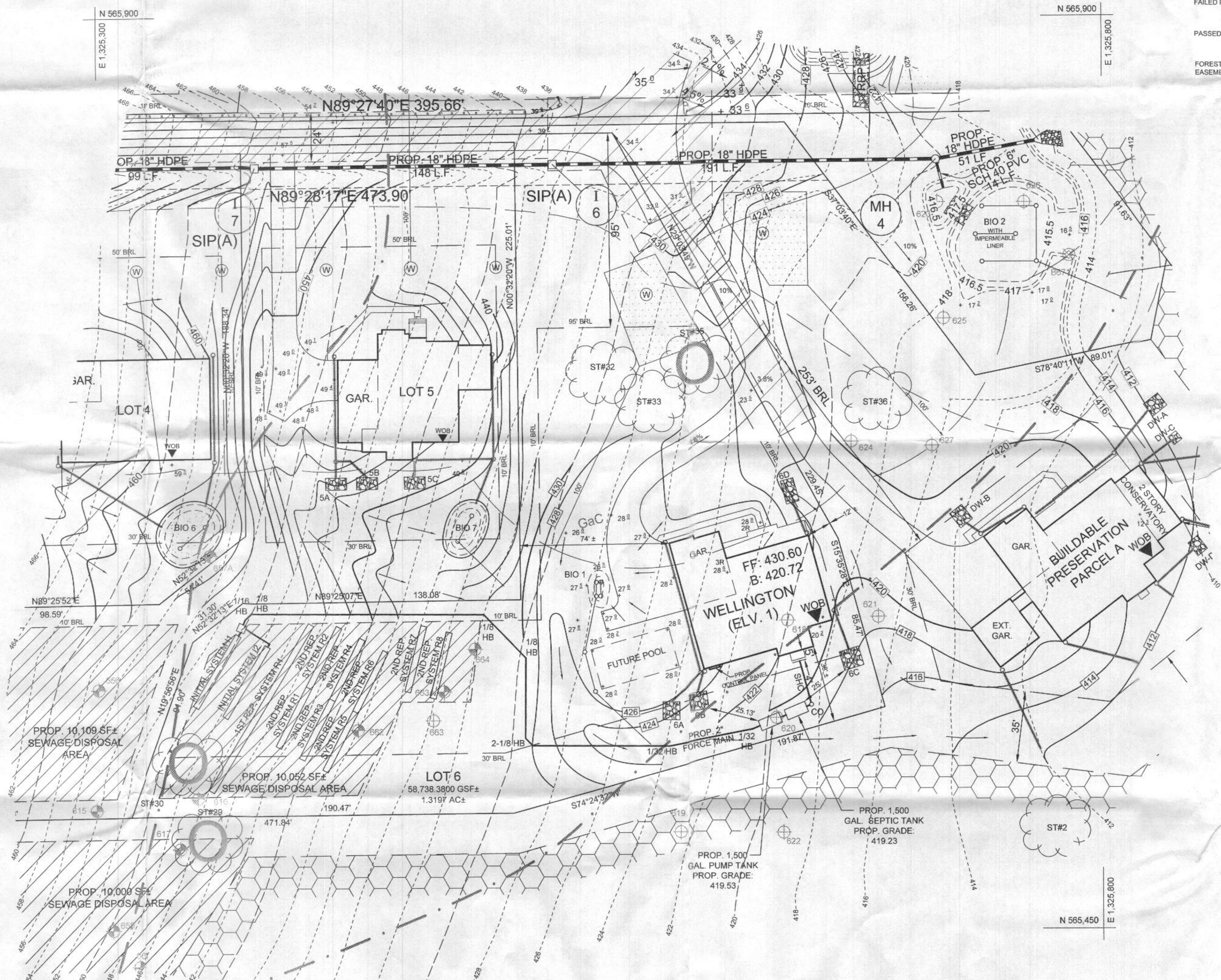
- DESIGN FLOW:**
- 5 BEDROOMS AT 150 GALLONS PER DAY (GPD)
  - 5X150 GPD = 750 GPD
- SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (750 GPD) / APPLICATION RATE (1.2) = 625 SF
- SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3.0'
  - TRENCH EFFECTIVE DEPTH (D) = 3.5'
  - $(W^2) / (W+1.2D) \times 100 = 46\%$
- LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (625) X SIDEWALL REDUCTION CREDIT (46%) / TRENCH WIDTH (3.0') = 95.8'
- LINEAR LENGTH OF TRENCH PROVIDED = 96'**
- ONE TRENCHES 96 LF
- EXISTING GROUND:**
- TRENCH R1: 445.4
  - TRENCH R2: 443.4
- INVERT:**
- TRENCH R1: 443.4

**SECOND REPLACEMENT (REP.) SYSTEM**

- APPLICATION RATE: 0.6
- EFFECTIVE AREA BEGINNING DEPTH: 3.0'
- BOTTOM MAXIMUM DEPTH: 5.0'

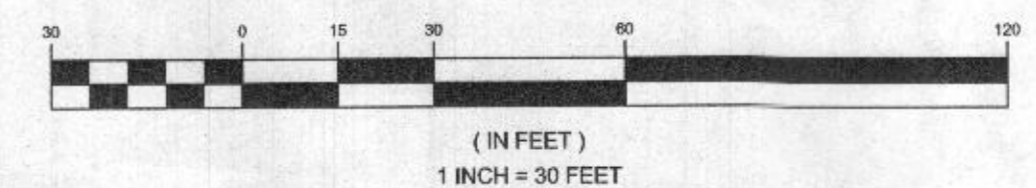
- DESIGN FLOW:**
- 5 BEDROOMS AT 150 GALLONS PER DAY (GPD)
  - 5X150 GPD = 750 GPD
- SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (750 GPD) / APPLICATION RATE (0.6) = 1,250 SF
- SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3.0'
  - TRENCH EFFECTIVE DEPTH (D) = 2.0'
  - $(W^2) / (W+1.2D) \times 100 = 63\%$
- LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (1,250) X SIDEWALL REDUCTION CREDIT (63%) / TRENCH WIDTH (3.0') = 262.5'
- LINEAR LENGTH OF TRENCH PROVIDED = 264'**
- THREE TRENCHES 88 LF EACH (CENTERED TRENCHES. SEE NOTE BELOW)
  - TWO TRENCHES 33 LF EACH
- EXISTING GROUND:**
- TRENCH R2-1: 442.8
  - TRENCH R2-2: 442.7
  - TRENCH R2-3: 440.7
  - TRENCH R2-4: 440.5
  - TRENCH R2-5: 438.8
  - TRENCH R2-6: 438.5
  - TRENCH R2-7: 438.7
  - TRENCH R2-8: 438.5
  - TRENCH R2-9: 437.7
  - TRENCH R2-10: 434.0
  - TRENCH R2-11: 432.0
- INVERT:**
- TRENCH R2-1: 442.8
  - TRENCH R2-2: 440.7
  - TRENCH R2-3: 438.7
  - TRENCH R2-4: 440.5
  - TRENCH R2-5: 438.8
  - TRENCH R2-6: 438.5
  - TRENCH R2-7: 438.7
  - TRENCH R2-8: 438.5
  - TRENCH R2-9: 437.7
  - TRENCH R2-10: 434.0
  - TRENCH R2-11: 432.0

NOTE: FOR THE SECOND REPLACEMENT SYSTEM, A PRESSURIZED DISTRIBUTION DESIGN SHOULD BE IMPLEMENTED.



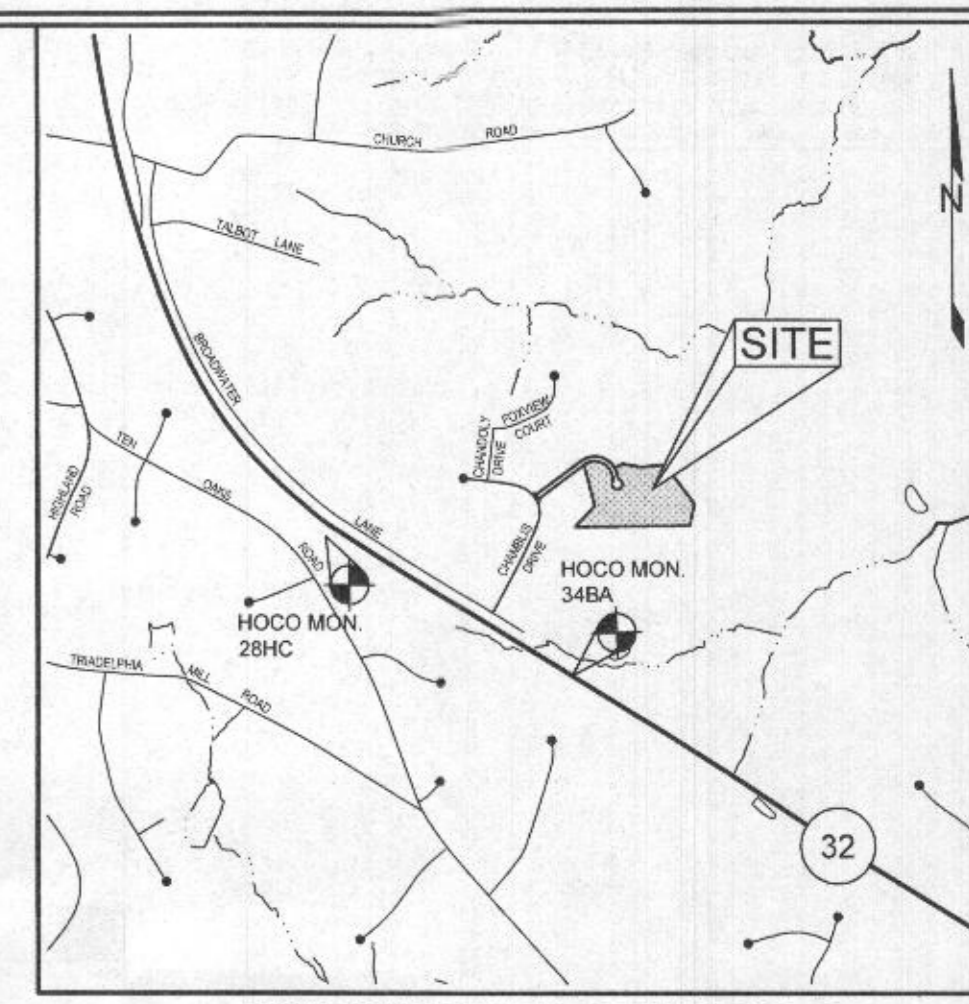
PLAN VIEW  
SCALE: 1"=30'

GRAPHIC SCALE



### LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- SOIL BOUNDARY
- EXISTING STREAM
- 100' STREAM BUFFER
- EXISTING SPECIMEN TREE APPROVED FOR REMOVAL IF NECESSARY
- EXISTING WELL
- FUTURE WELL LOCATION
- WALK OUT BASEMENT
- FAILED PERC TEST
- PASSED PERC TEST
- FOREST CONSERVATION EASEMENT



HOWARD COUNTY, MARYLAND ADC MAP 14 B5 & C5  
VICINITY MAP  
SCALE: 1"=2000'

### GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 10/06/13 COMPREHENSIVE ZONING PLAN.
- PROPERTY ADDRESS: 5640 DOSA COURT, CLARKSVILLE 21029
- TOTAL AREA OF PROPERTY = 1.32 AC.
- PRIVATE WATER AND SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWER AREA OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS 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 SEWER AREA. RECORDATION OF A MODIFIED SEWER AREA SHALL NOT BE NECESSARY.
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ADCOCK & ASSOCIATES, LLC ON SEPTEMBER 16, 2014.
- THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY ADCOCK & ASSOCIATES, LLC ON SEPTEMBER 16, 2014. THE EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004.
- REFERENCE: RECORDED PLAT NO. 25051.
- PREVIOUS HOWARD COUNTY FILE NUMBERS: RECORD PLAT NO. 5471, F-83-114, ECR-15-032, WP-16-017, WP-17-060, SP-16-008, PB 431, WP-18-127, RECORD PLAT NO. 25051, F-18-094
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE, HOWARD COUNTY SOILS GRID 12, SUB-GRID 205.
- A WETLAND AND STREAM STUDY HAS BEEN PREPARED BY ECO SCIENCE PROFESSIONALS INC. IN NOVEMBER 2014.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF THE EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS HAVE BEEN FIELD LOCATED.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.

Approved Septic System Plan  
Howard County Health Department  
1500-gal Septic Tank & 1500-gal Pump Tank  
w/ GOUNDS WEST A pump or equiv.  
Briek  
Signature  
3/4/21  
Date  
To Gravity Distribution for 5-bedroom SFD

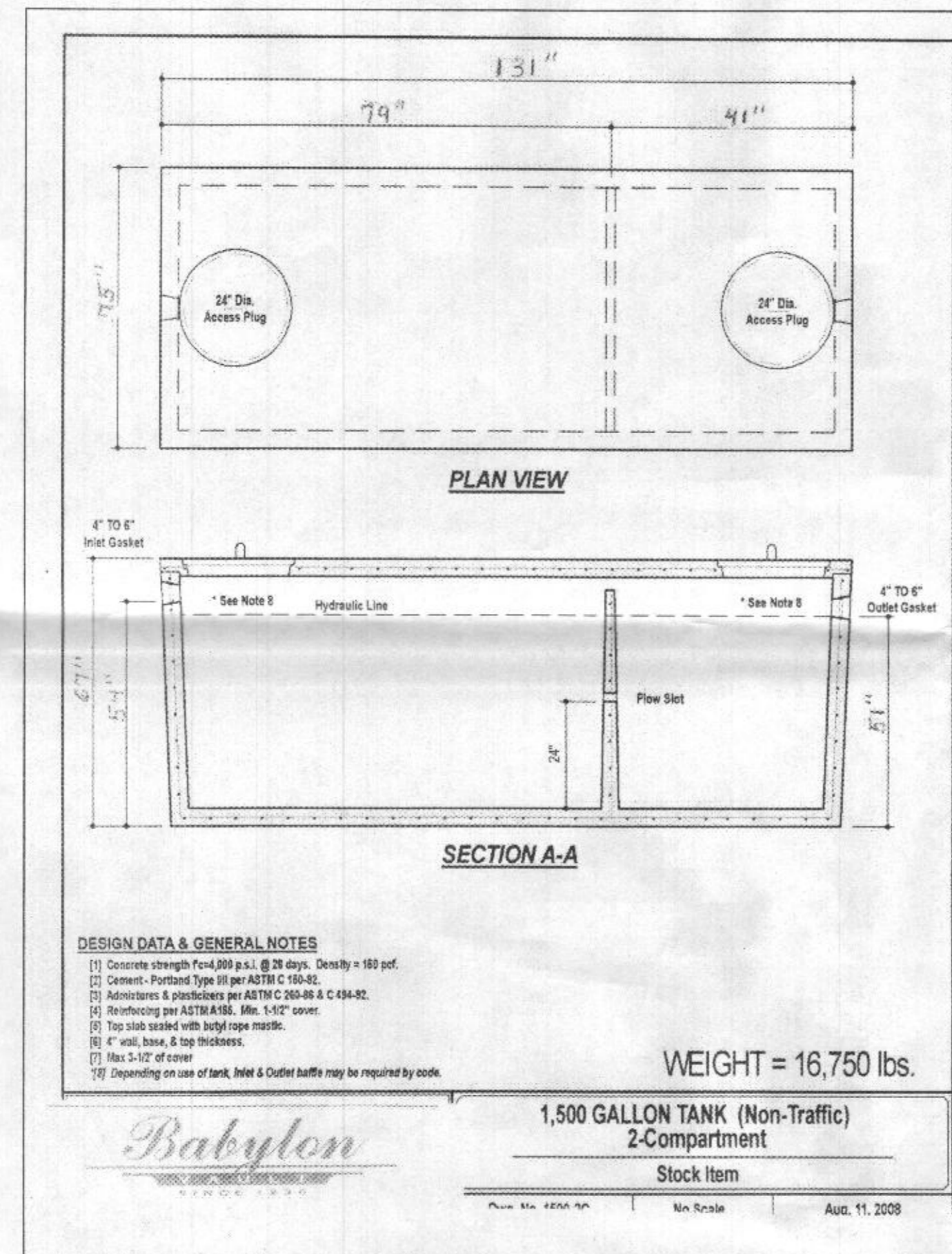
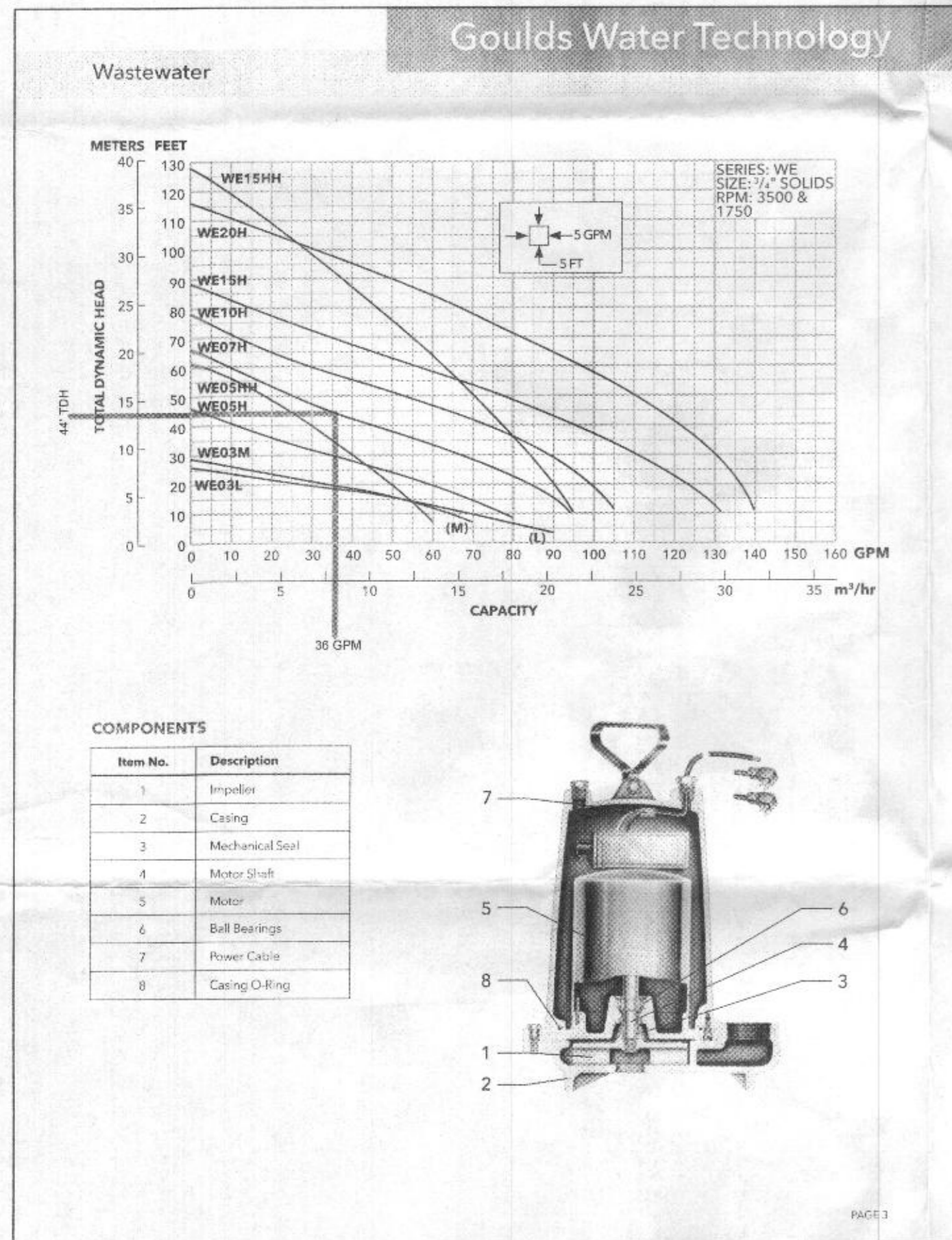
OWNER	DEVELOPER
WILLIAMSBURG GROUP 5485 HARPERS FARM ROAD, SUITE 200 COLUMBIA, MARYLAND 21044 410.997.8800	DOSA CLARKSVILLE LLC 5900 WHALE BOAT DRIVE UNIT #206 CLARKSVILLE, MARYLAND 21069 301.370.9866

## ONSITE SEWAGE DISPOSAL SYSTEM PLAN THE WOODLANDS 5640 DOSA COURT, LOT 6

TAX MAP 28 GRID 23  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

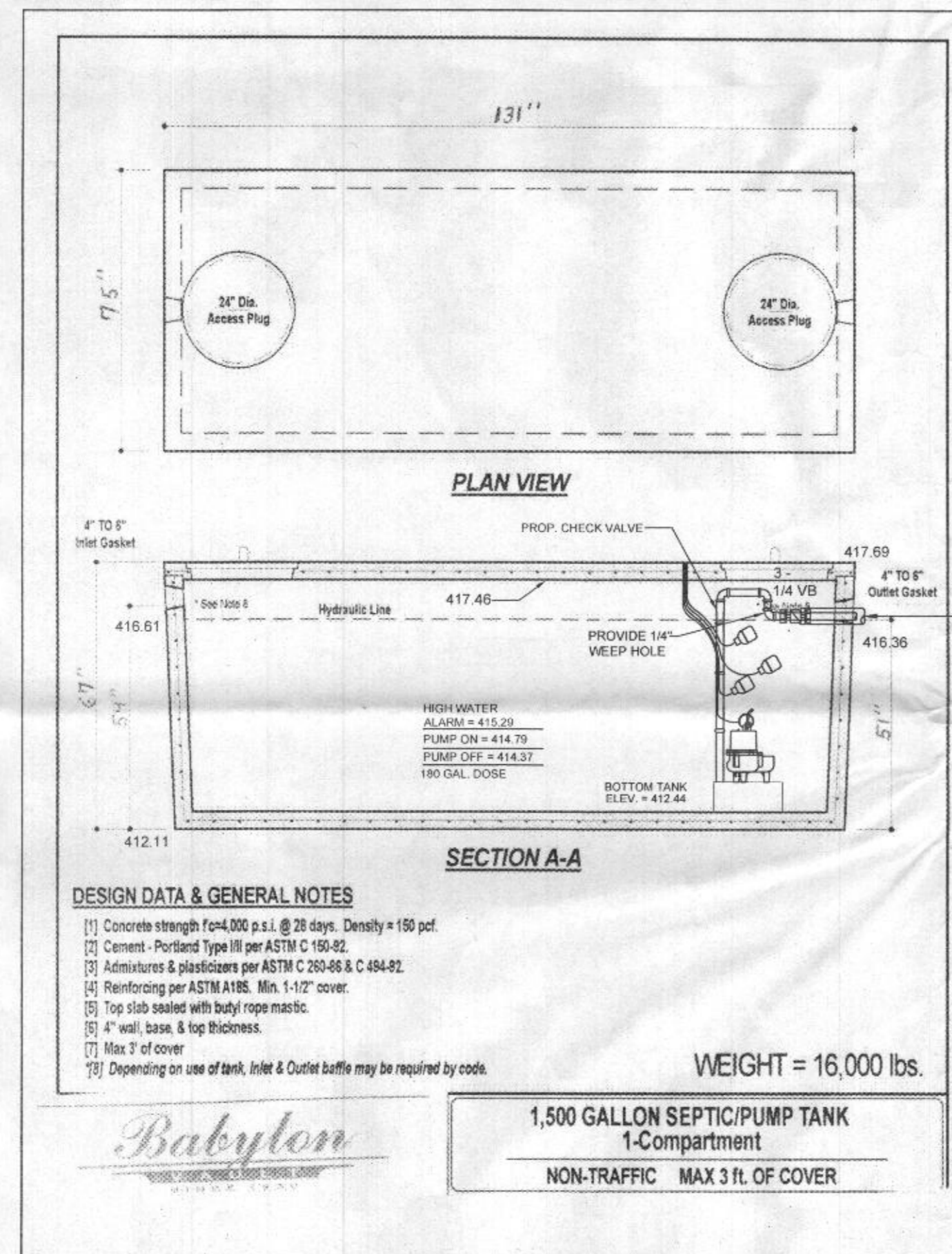
		DESIGN BY: PS
	16005 Frederick Road, 2nd Floor Woodbine, Maryland 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillingengineering.com Civil Engineering for Land Development	DRAWN BY: TB
		CHECKED BY: PS
		SCALE: AS SHOWN
		DATE: JULY 21, 2021
		PROJECT #: 20-003
		SHEET #: 1 of 2

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30203, EXPIRATION DATE: JUNE 30, 2023



PROPOSED 1,500-GALLON SEPTIC TANK DETAIL

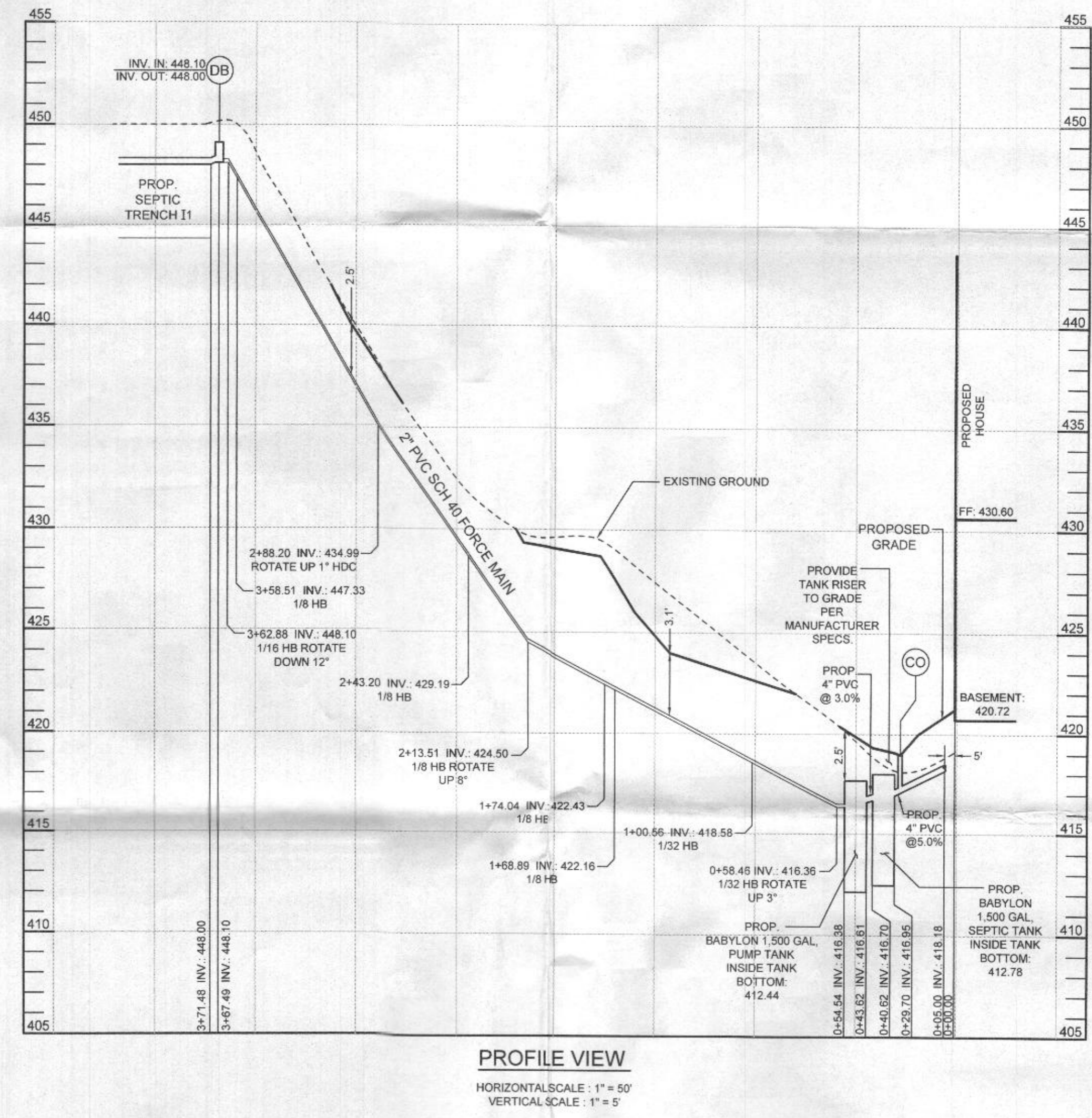
NOT TO SCALE



PROPOSED 1,500-GALLON PUMP TANK DETAIL

NOT TO SCALE

\*CONTRACTOR TO PLACE THE QUICK CONNECT/CONNECT ALONG PUMP LINE INSIDE THE TANK AT AN EASILY ACCESSIBLE POINT BELOW THE ACCESS MANHOLE.



Approved Septic System Plan  
Howard County Health Department  
1500 gal Septic Tank & 1500 gal Pump Tank  
w/ GOULDS WEATH pump or equiv.

Builder Signature: *[Signature]* 8/4/21 Date  
To Gravity Distribution for Sbedrom SFD

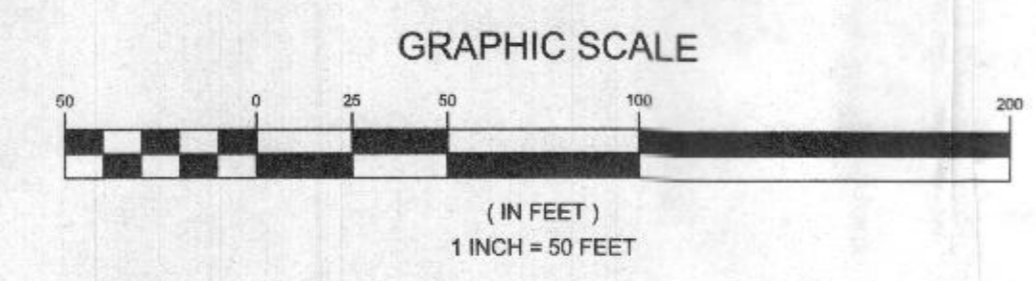
**OWNER**  
WILLIAMSBURG GROUP  
5485 HARRERS FARM ROAD, SUITE 200  
COLUMBIA, MARYLAND 21044  
410.997.8800

**DEVELOPER**  
DOSA CLARKSVILLE LLC  
5900 WHALE BOAT DRIVE UNIT #206  
CLARKSVILLE, MARYLAND 21069  
301.370.8866

**ONSITE SEWAGE DISPOSAL SYSTEM PROFILE & DETAILS**  
**THE WOODLANDS**  
5640 DOSA COURT, LOT 6

TAX MAP 28 GRID 23  
5TH ELECTION DISTRICT

PARCEL 15  
HOWARD COUNTY, MARYLAND



STATE OF MARYLAND  
PAUL M. SILL  
LAND SURVEYOR  
PROFESSIONAL ENGINEER

**SILL ENGINEERING GROUP, LLC**  
16005 Frederick Road, 2nd Floor  
Woodbine, Maryland 21797  
Phone: 443.325.5076  
Fax: 410.696.2022  
Email: info@sillengineering.com  
Civil Engineering for Land Development

DESIGN BY: PS  
DRAWN BY: TB  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: JULY 21, 2021  
PROJECT #: 20-003  
SHEET #: 2 of 2

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32023, EXPIRATION DATE: JUNE 20, 2023