



**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)

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

RECEIPT DATE: 5/27/20 **ONSITE SEWAGE DISPOSAL SYSTEM** P 567852-B

APPROVAL DATE: 7/21/2020 **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 1018 HIGH STEPPER TRAIL, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS LOT: 8 TAX ID: 03-601566

CONTRACTOR: SOUTH CARROLL BACKHOE EMAIL: SCBACKHOE@COMCAST.NET

CONTRACTOR ADDRESS: 4410 SALEM BOTTOM ROAD, WESTMINSTER, MD 21157 PHONE: 410-596-3618

PROPERTY OWNER: NVR, INC. EMAIL: janastas@nvrinc.com

OWNER ADDRESS: 9720 PATUXENT WOODS DRIVE, COLUMBIA, MD 21046 PHONE: (410)379-5956

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

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

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

TRENCHES:	LINEAR FEET REQUIRED: <u>83</u>	INLET DEPTH: <u>2.1</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5.1</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.1</u>

LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: INSTALL THE SHC WITH AT LEAST ~~ONE~~ <sup>TWO</sup> CLEANOUTS *reb 6/23/2020*

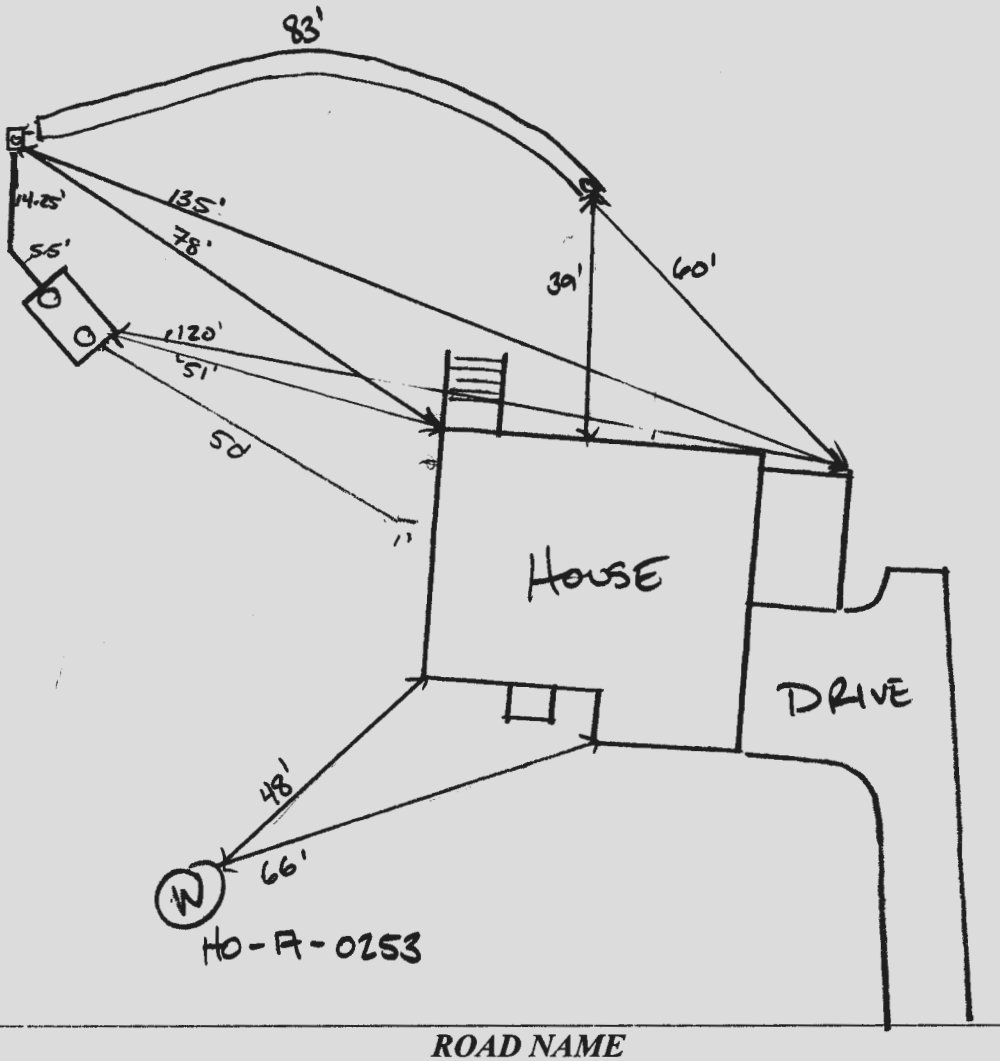
ISSUED BY: R BRICKER ISSUE DATE: 05/27/2020 EXPIRATION DATE: 5/27/20

- 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 n.a.
- 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.**

279189270189

NOT TO SCALE



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	2'	5'
NUMBER OF TRENCHES <u>1</u>		
TOTAL LENGTH <u>83'</u>		
ABSORPTION AREA <u>252 SF</u>		
DISTRIBUTION BOX LEVEL <u>N/A</u>		
DISTRIBUTION BOX BAFFLE <u>YES</u>		
DISTRIBUTION BOX PORT <u>YES</u>		

**PRE-CONSTRUCTION:**

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL	
MANUFACTURER	<u>BABYLON</u>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>6"</u>
BAFFLES	<u>YES</u>
BAFFLE FILTER	<u>NO</u>
MANHOLE LOC	<u>FRONT/BACK</u>
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	<u>YES</u>
DATE ON LID	<u>04/06/2020</u>

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

06/05/2020 SEWER OUT OF HOUSE CHANGED; FINISHED BASEMENT. LAID OUT 1X 83' TRENCH. OK (✓)

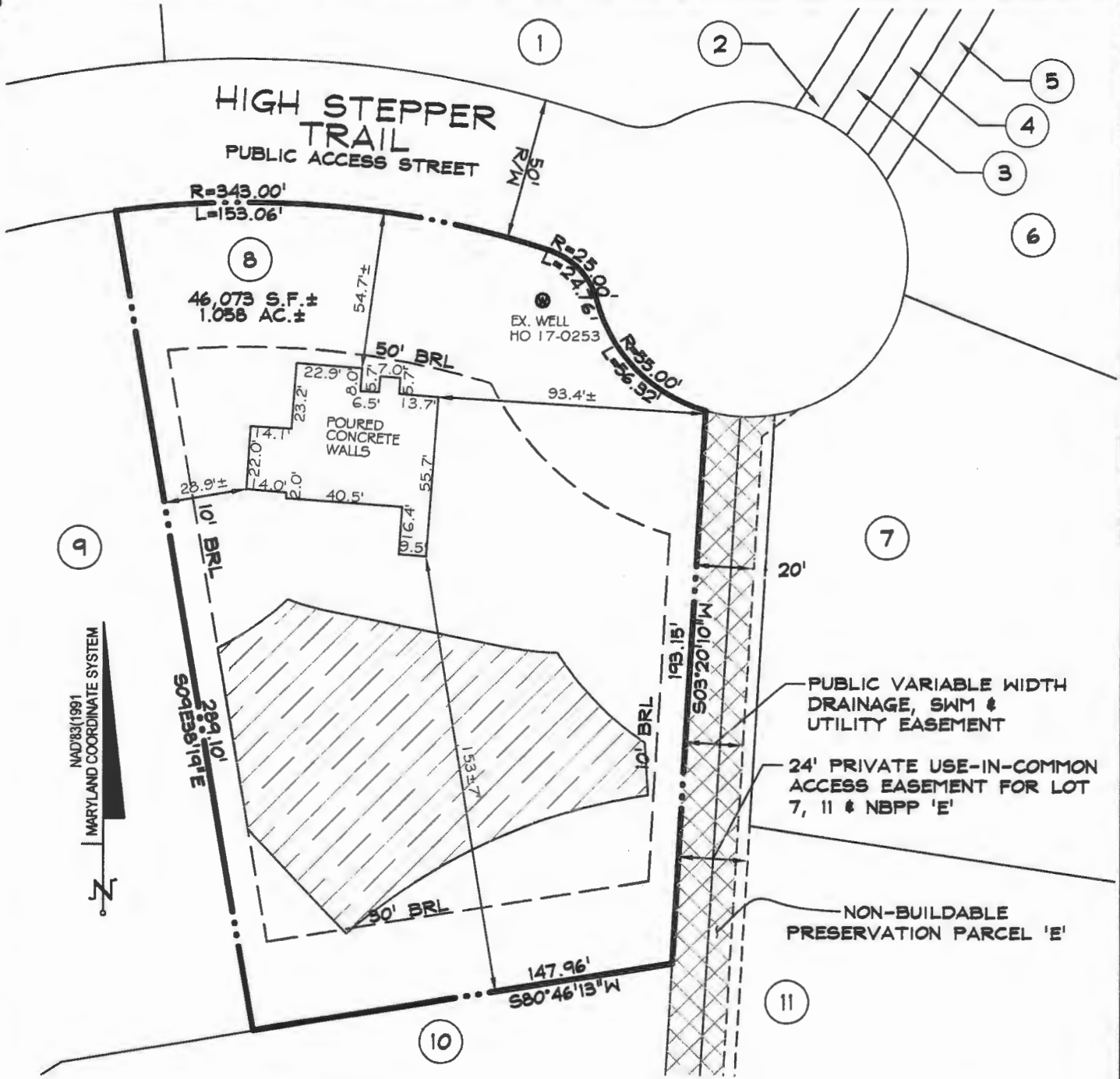
INSTALLATION: 06/05/2020 TANK AND SI INSTALLED. REINSPECT SHC (✓)  
06/08/2020 D BOX SET; TRENCH COMPLETE. NO NEED FOR SPEED LEVELS AS THERE IS ONLY ONE TRENCH. REINSPECT SHC (✓)  
SHC confirmed via builder (✓)

FINAL INSPECTOR

*Jr. Wang*

DATE OF APPROVAL

7/31/2020



BRL - BUILDING RESTRICTION LINE

-  PRIVATE SEWAGE DISPOSAL AREA
-  PUBLIC VARIABLE WIDTH DRAINAGE, SWM & UTILITY EASEMENT

Approved  
6/2/20 (ST)

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT I EITHER PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS DRAWING AND THE SURVEYING WORK REFLECTED IN IT, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION .12 OF CHAPTER 06, MINIMUM STANDARDS OF PRACTICE. I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 11039, EXPIRATION DATE 09/16/20.



*[Signature]* 4/30/20

TOP OF WALL = 532.6

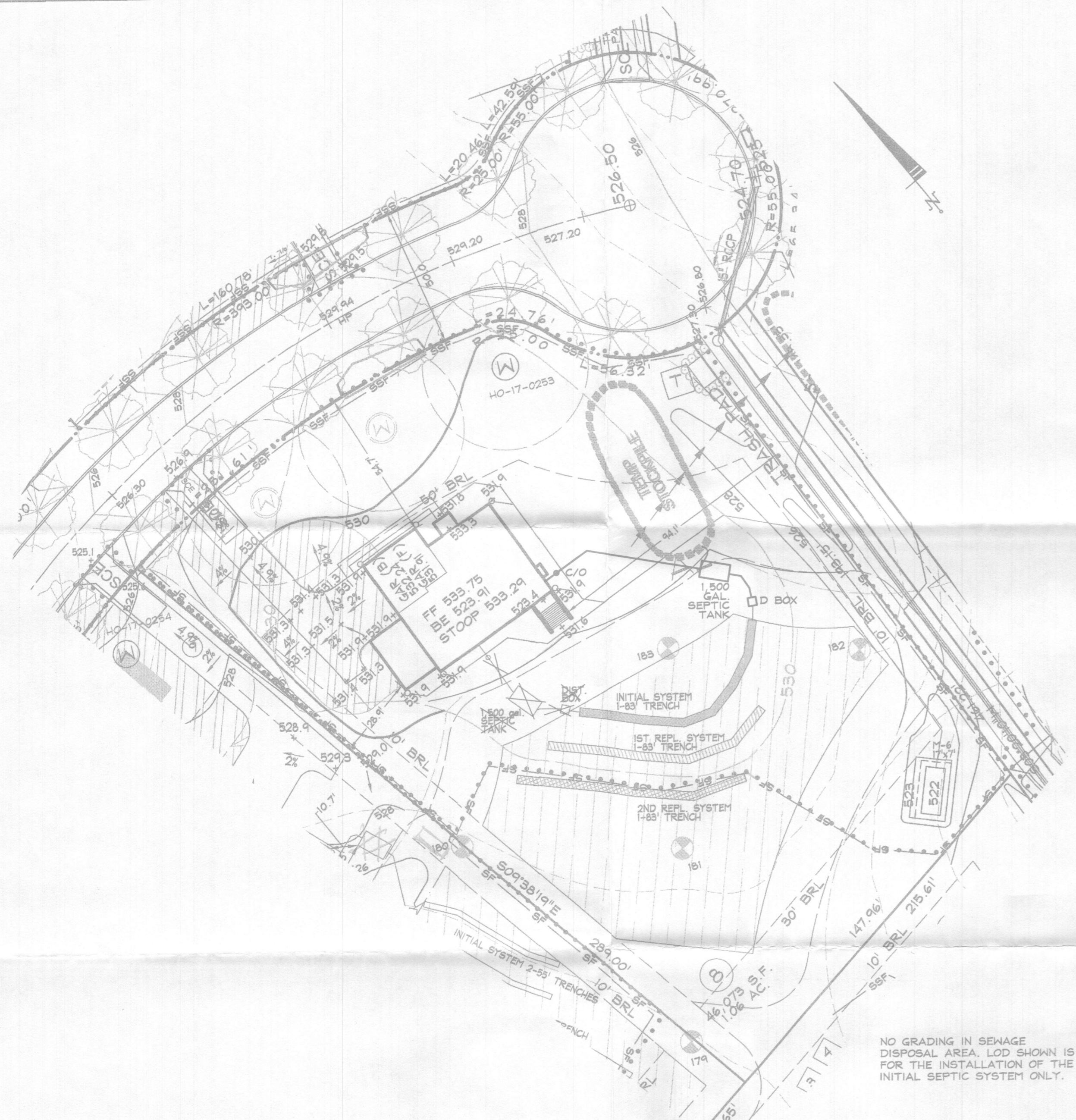
WALL CHECK 1018 HIGH STEPPER TRAIL LOT 8 WALKER MEADOWS PLAT NO. 24976 3rd ELECTION DISTRICT HOWARD COUNTY, MD	DDC JOB#:	12064.3
	DATE:	04/30/2020
	SCALE:	1"=50'
	DRN. BY:	CWJ
	CHK. BY:	JLM



Planners  
 Surveyors  
 Engineers  
 Landscape Architects  
 192 East Main Street  
 Westminster, MD 21157  
 410.386.0560  
 410.386.0564 (Fax)  
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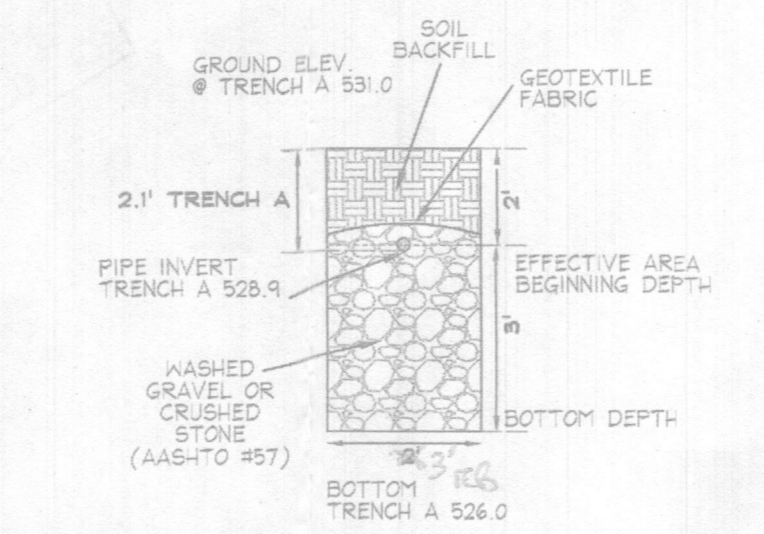


LOT 8 PLAN VIEW  
SCALE: 1" = 30'

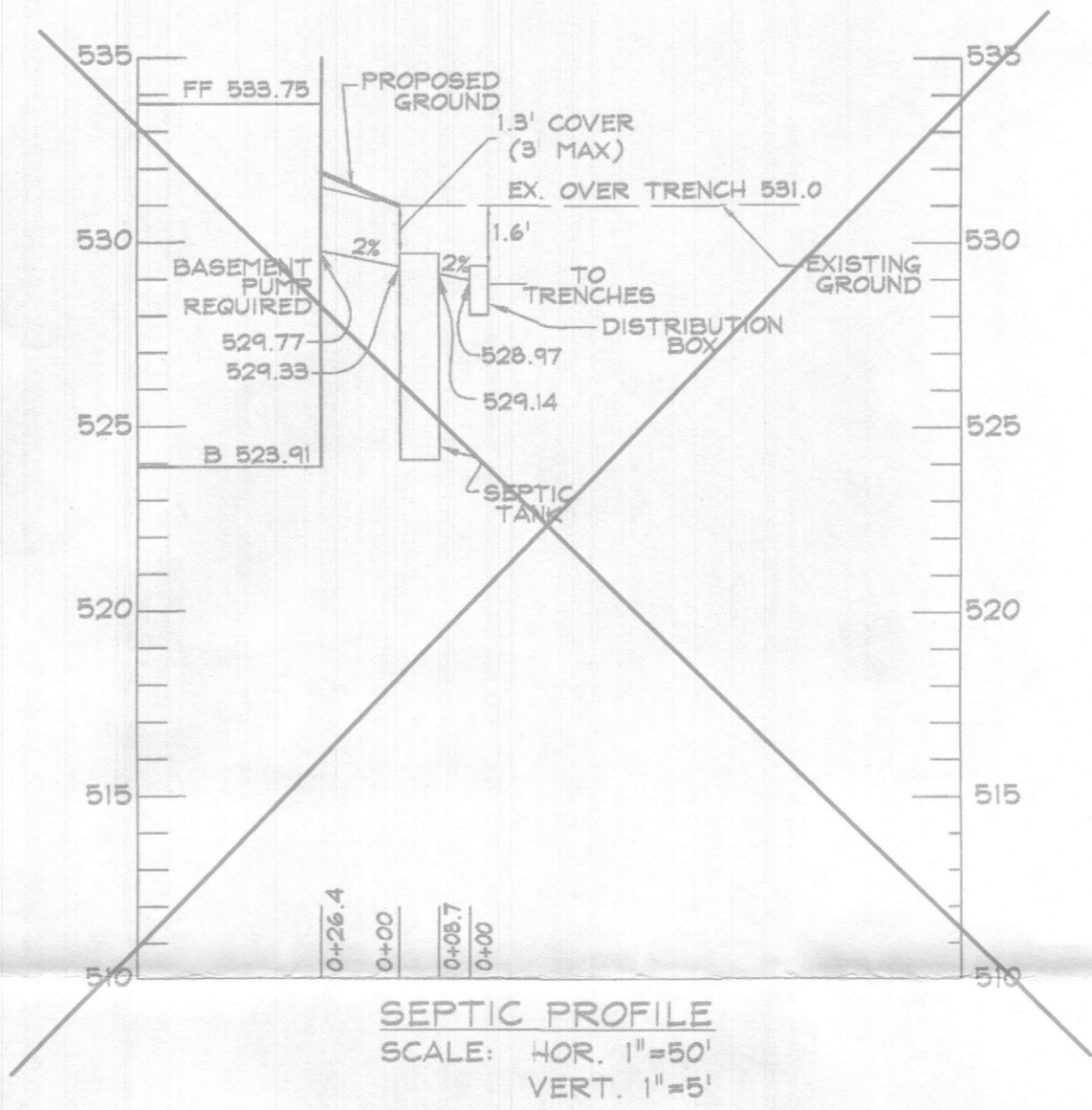
STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY A WIDE GRASS SHOULDER AND MICROBIORETENTION.

GRAVITY SEWER SERVICE LIMITED TO FIRST FLOOR

NO GRADING IN SEWAGE DISPOSAL AREA. LOD SHOWN IS FOR THE INSTALLATION OF THE INITIAL SEPTIC SYSTEM ONLY.



TRENCH DETAIL INITIAL SYSTEM  
N.T.S.



SEPTIC PROFILE  
SCALE: HOR. 1"=50'  
VERT. 1"=5'

LOT 9 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A	2.1'	2'	5'
1ST REPLACEMENT TRENCH A	2'	2'	5'
2ND REPLACEMENT TRENCH A	2'	5'	5'

LOT 9 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	531.0	528.9	526.0
1ST REPLACEMENT TRENCH A	530.3	528.3	525.3
2ND REPLACEMENT TRENCH A	529.6	527.6	524.6

NOTES:

- 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.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE WELL (TAG #140-17-0253) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

TRENCH LENGTH AND SPACING CALCULATIONS

TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)  
INITIAL SYSTEM, 1ST & 2ND REPLACEMENT SYSTEMS  
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF  
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE EFFECTIVE AREA 2'-5"  
500 SF / 3' WIDTH = 167 LF x 0.50' = 83 LF MIN. TRENCH

1ST & 2ND REPLACEMENT SYSTEMS  
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF  
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE EFFECTIVE AREA 2'-5"  
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10' MIN SPACING BETWEEN TRENCH EDGES

1 - 83' LONG TRENCH FOR INITIAL SYSTEM  
1 - 83' LONG TRENCH FOR FIRST REPLACEMENT SYSTEM  
1 - 83' LONG TRENCH FOR SECOND REPLACEMENT SYSTEM

DATA SOURCES:  
EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANBERGER AND LANE DATED JUNE, 2014. TOPOGRAPHY SHOWN PER AERIAL PHOTOGRAMMETRY AND FIELD RUN TOPOGRAPHY DATED 5/2014. ADJACENT WELL AND SEPTIC INFORMATION APPROXIMATED FROM ADJACENT PLATS. HEALTH DEPARTMENT RECORDS AND FIELD OBSERVATION ON JUNE 25, 2019. EX. ENVIRONMENTAL INFORMATION SHOWN PER FIELD INVESTIGATION BY ECO-SCIENCE SOLUTIONS CONDUCTED ON OR ABOUT JUNE, 2014.

Planners  
Surveyors  
Engineers  
Landscape Architects

192 East Main Street  
Westminster, MD 21157  
410.386.0560  
410.386.0564 (Fax)  
DDC@DDCinc.us  
www.DDCinc.us

Development Design Consultants

OWNER:  
ESC WALKER MEADOWS, L.C.  
5074 DORSEY HALL DR., SUITE 205  
ELLCOTT CITY, MD 21042  
410-720-3021

DEVELOPER:  
NV HOMES  
9720 PATUXENT WOODS DRIVE  
COLUMBIA, MD 21046  
410-378-3361

SITE ADDRESS:  
SIE RIVER ROAD  
SYKESVILLE, MD 21784

WALKER MEADOWS  
A RESUBDIVISION OF LOT 2 OF THE  
DIEHL PROPERTY (PLAT #6997)  
LOTS 1-34 # BUILDABLE PRESERVATION PARCEL A # NON-BUILDABLE  
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-M  
1016 HIGH STEPPER TRAIL

LOT 8 ONSITE SEWAGE  
DISPOSAL SYSTEM DESIGN PLAN

5TH COUNCIL DISTRICT  
BRD ELECTION DISTRICT HOWARD COUNTY, MD

REVISIONS			
NO.	DESCRIPTION OF CHANGES	DRN/REV	DATE
1	LOT 8 REVISED TANK LOCATION	LJC	5/22/20
CO. FILE #:	F-17-045	DES. BY:	LJC
TAX ACC. #:	03-601568	DRN. BY:	LJC
TAX MAP:	9	CHK. BY:	WRD
BLOCK / GRID:	6	DATE:	2/24/20
PARCEL #:	66	DDC JOB#:	12064.3
ZONE / USE:	RR-DEO	SHEET NUMBER:	
DWG. SCALE:	1" = 30'		1 of 1

Approved Septic System Plan  
Howard County Health Department  
1500-gal Septic Tank  
to Gravity Distribution  
for 5-Bedroom SFD  
Signature: [Signature] 3/12/2020 Date

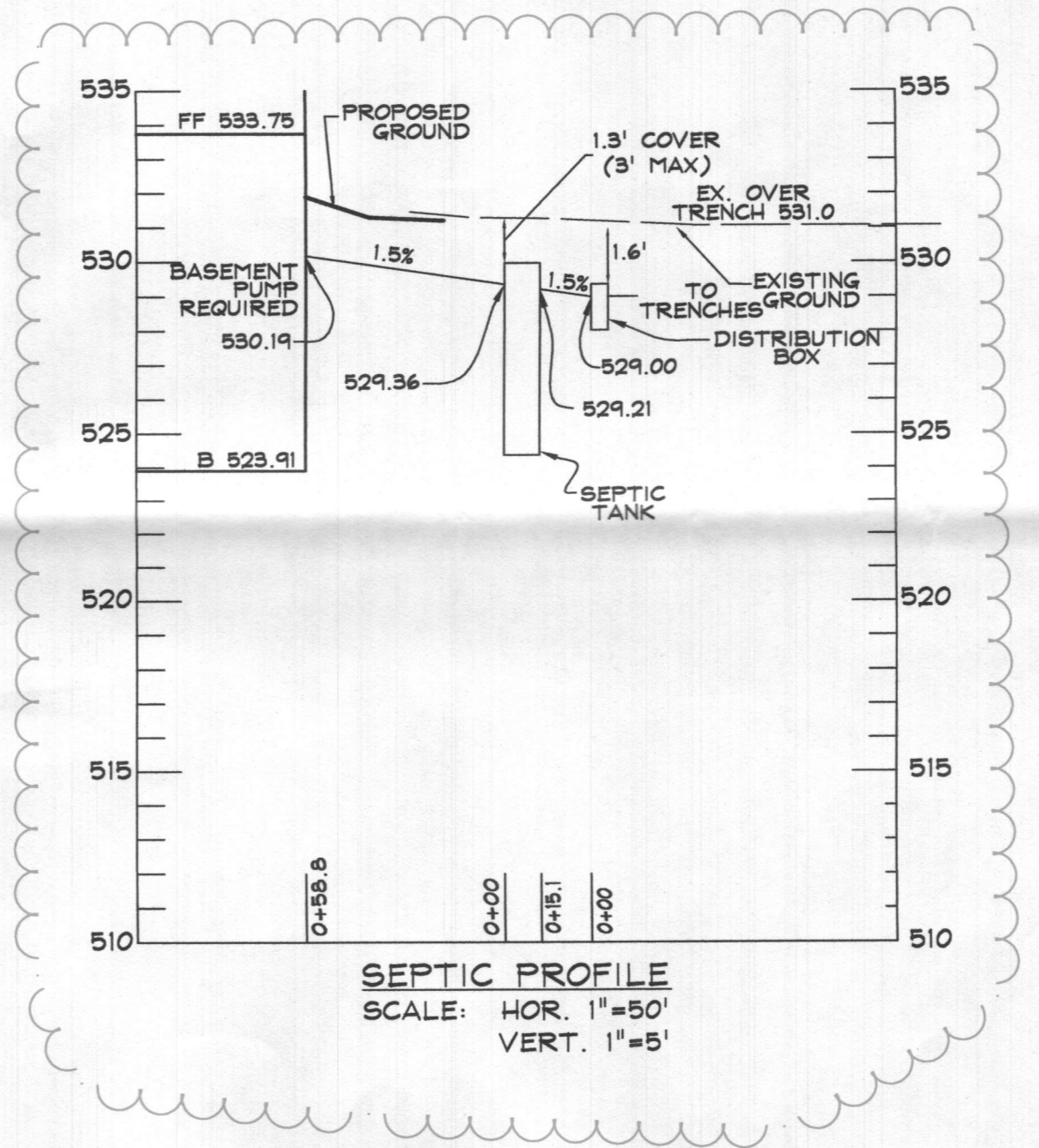
Redline revision 'OK'  
RB 4/26/2020

LOT 8 REVISED  
TANK LOCATION

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. 21998 EXPIRATION DATE: 1/28/20

2/3/20  
DATE

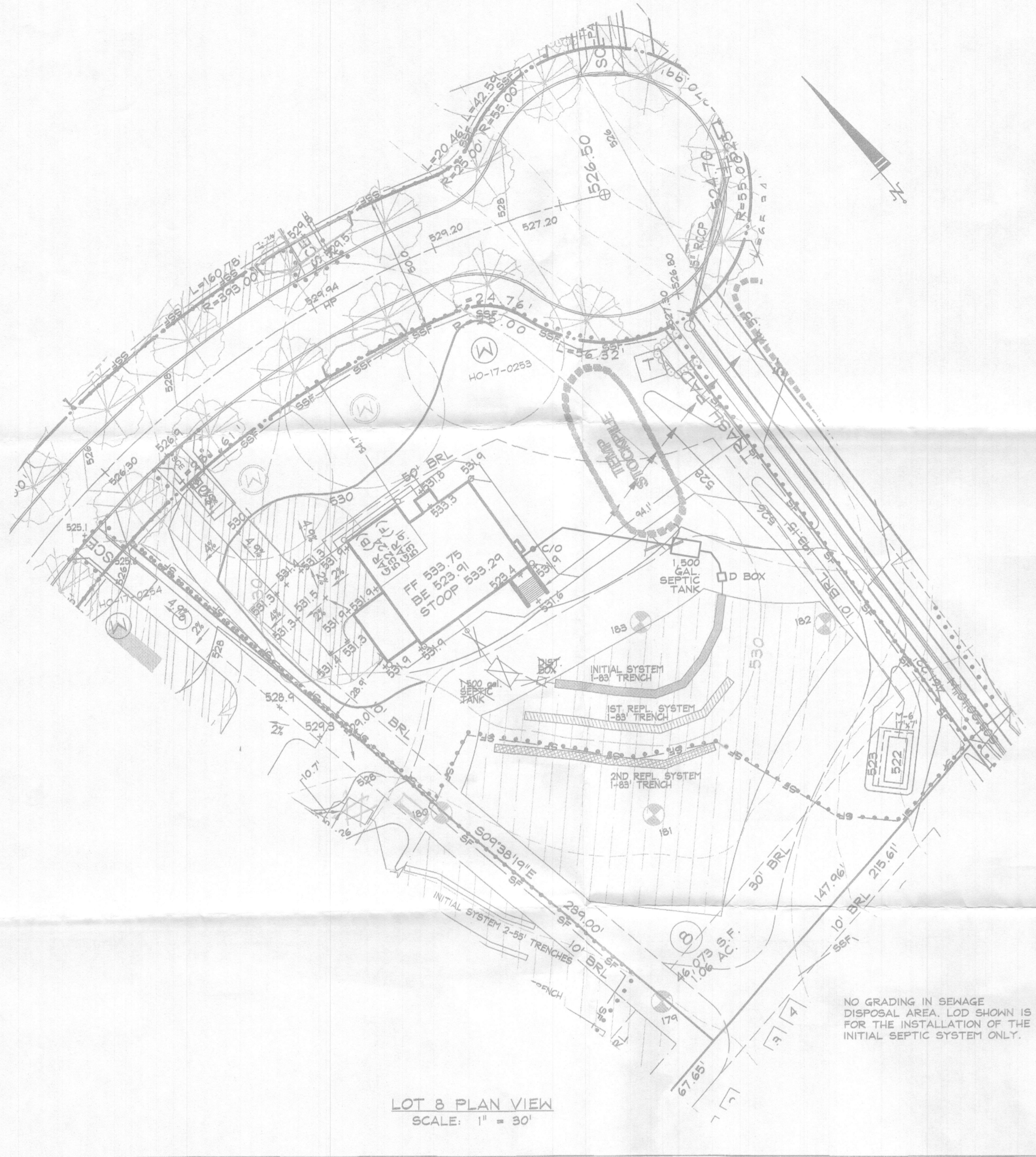
WILLIAM R. DEMARIO  
PROFESSIONAL ENGINEER NO. 21998



SEPTIC PROFILE  
SCALE: HOR. 1"=50'  
VERT. 1"=5'

DRAWING LEGEND

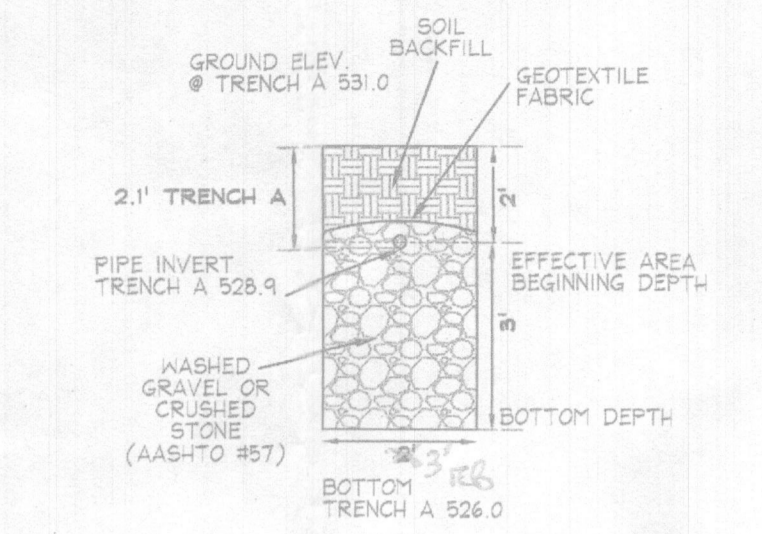
● ● ● ● ●	LIMIT OF DISTURBANCE	▨	SEWAGE DISPOSAL AREA
— SF — SF —	PROPOSED SILT FENCE	□	DRY WELL
— SSF — SSF —	PROPOSED SUPER SILT FENCE	▨	WIDE GRASS SHOULDER
□ SCE	STABILIZED ENTRANCE	○	TEMPORARY STOCKPILE
□ T	TRANSFORMER		
○ 175	PERCOLATION TEST HOLE - PASS		
□	WELL BOX, ALT. EXISTING WELL		



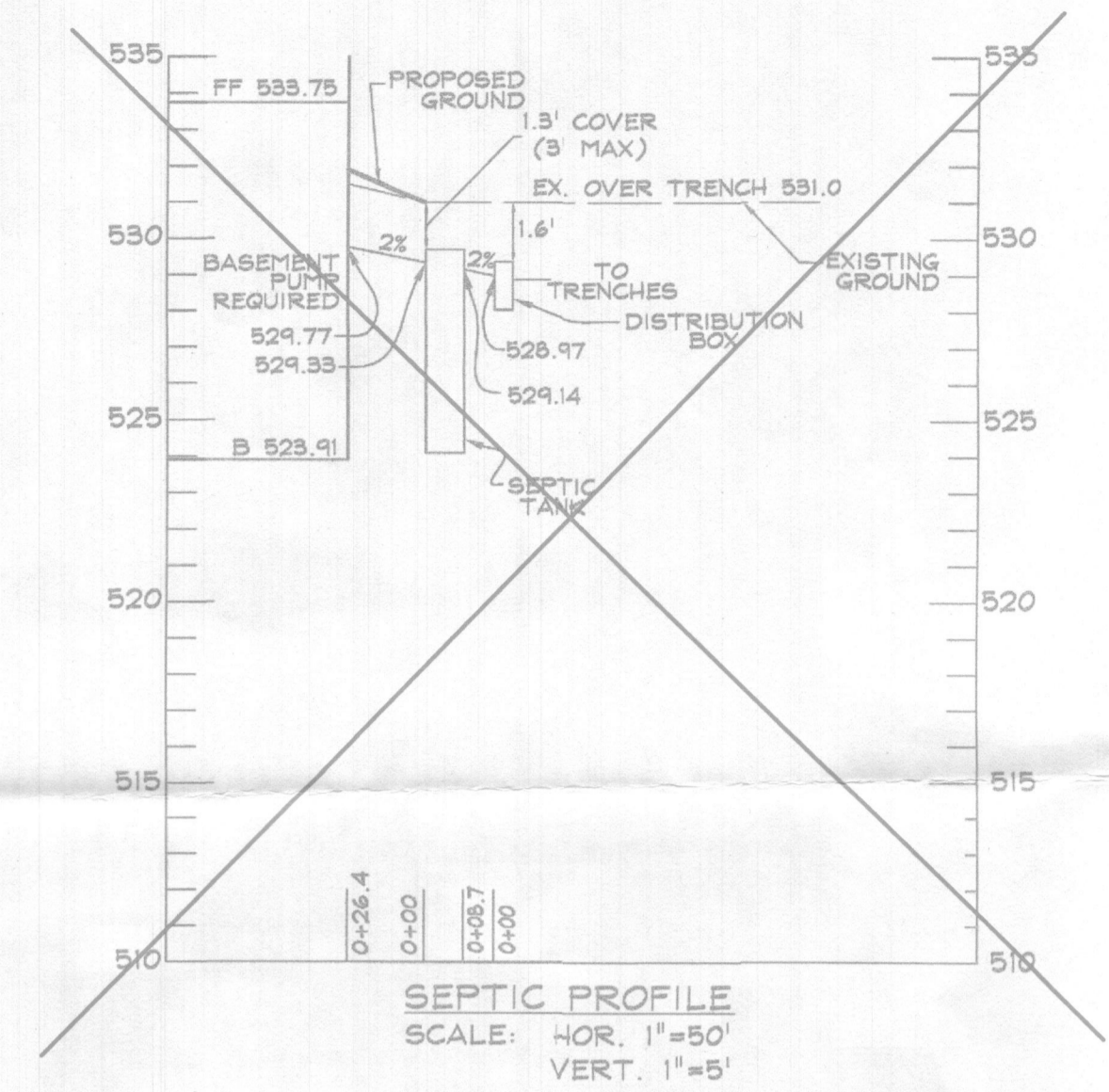
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TRENCH DETAIL INITIAL SYSTEM  
N.T.S.



LOT 9 - RELATIVE DEPTHS			
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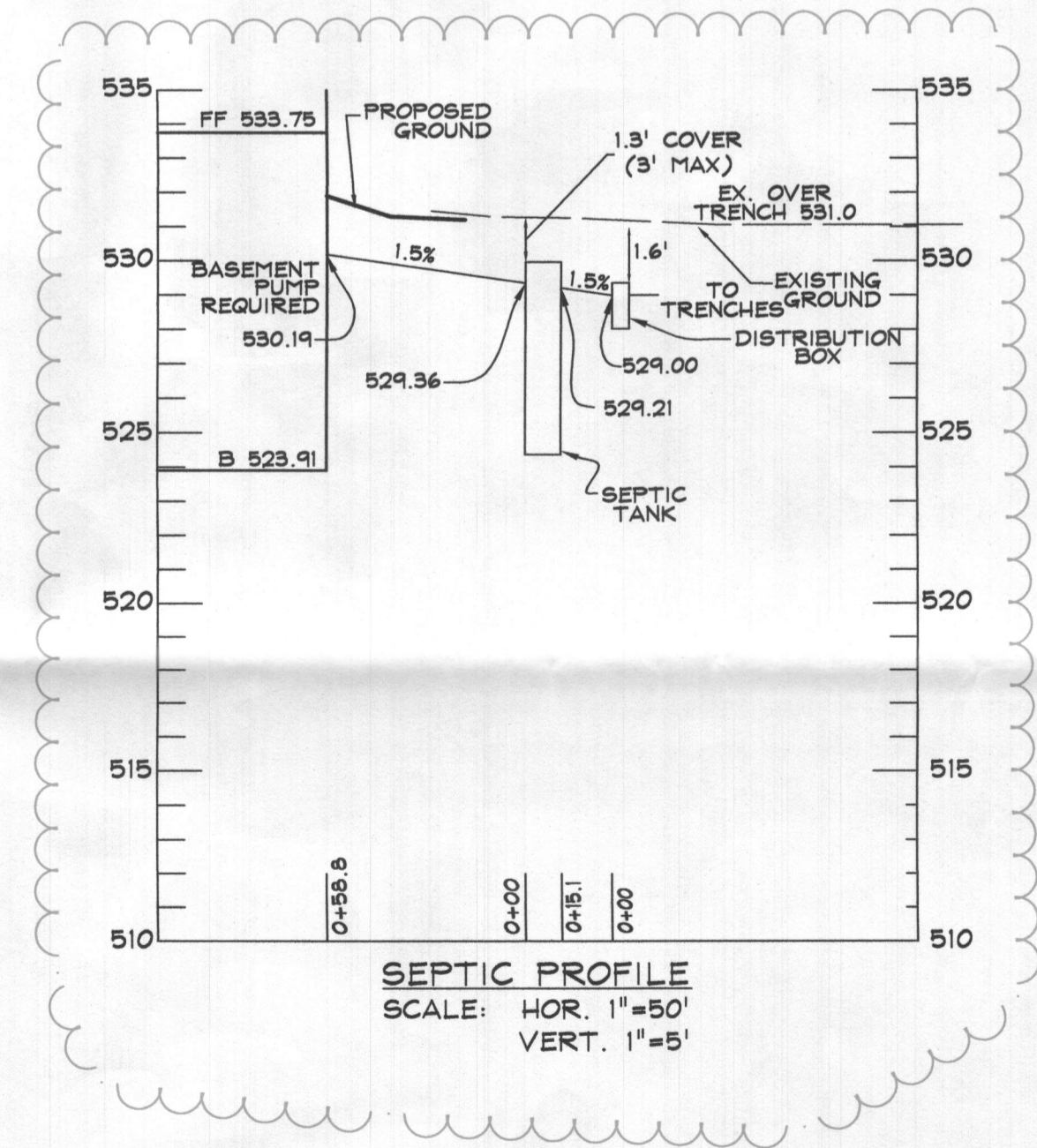
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Approved Septic System Plan  
 Howard County Health Department  
 1500 gal Septic Tank  
 To Gravity Distribution  
 for 5 Bedroom SFD  
 Signature: *RB* Date: 3/12/2020

*Redline revision OK!*  
 RB 6/26/2020

LOT 8 REVISED TANK LOCATION

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WILLIAM R. DEMARIO  
 PROFESSIONAL ENGINEER NO. 21998



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LOT 8 ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

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DWG. SCALE:	1" = 30'		1 of 1

DRAWING LEGEND

