

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: 9/14/15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 557371

INSTALLATION APPROVAL DATE: 3/30/16 **PERMIT** A _____

SEWER HOUSE CONNECTION

PROPERTY ADDRESS: 15439 Maple Ridge Road

SUBDIVISION: Maple Ridge LOT: Par A TAX ID: _____

CONTRACTOR: Paul H. Dymond Corporation EMAIL: _____

CONTRACTOR ADDRESS: 14631 Red Lion Dr. / Woodbine, MD 21797 PHONE: 410-442-5774

PROPERTY OWNER: Traci & Greg Spiegel EMAIL: _____

OWNER ADDRESS: _____ PHONE: _____

NUMBER OF BEDROOMS: 5 CONNECTED TO PUBLIC WATER: YES NO

*443-250
9407*

LOCATION:	INSTALL 4" SEWER LINE PER APPROVED SITE PLAN.
NOTES:	SHC with 2" force main to be run inside LOD. Shared septic system approved for 5 bedroom max.

ISSUED BY: Ryan Rappaport ISSUE DATE: 9/14/15 EXPIRATION DATE: 9/14/16

NOTE: HOWARD COUNTY BUREAU OF UTILITIES APPROVAL OF GRINDER PUMP INSTALLATION IS REQUIRED PRIOR TO SEPTIC PERMIT APPROVAL

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

**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 FOR INSPECTION OF SEPTIC SYSTEM.**

NOT TO SCALE

See As-Built
Drawing On
Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES	_____	_____
TOTAL LENGTH	_____	_____
ABSORPTION AREA	_____	_____
DISTRIBUTION BOX LEVEL	_____	_____
DISTRIBUTION BOX BAFFLE	_____	_____
DISTRIBUTION BOX PORT	_____	_____

SEPTIC TANK DATA

SEPTIC TANK I 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 Yes

MANUFACTURER	<u>BABYLON</u>
CAPACITY	_____ GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>2.5'-3'</u>
BAFFLES	_____
BAFFLE FILTER	<u>No</u>
MANHOLE LOC	<u>Front + Rear</u>
6" PORT LOC	<u>None</u>
WATERTIGHT TEST	<u>No</u>
SLOTTED	<u>No</u>
DATE ON LID	<u>8/16/2015</u>

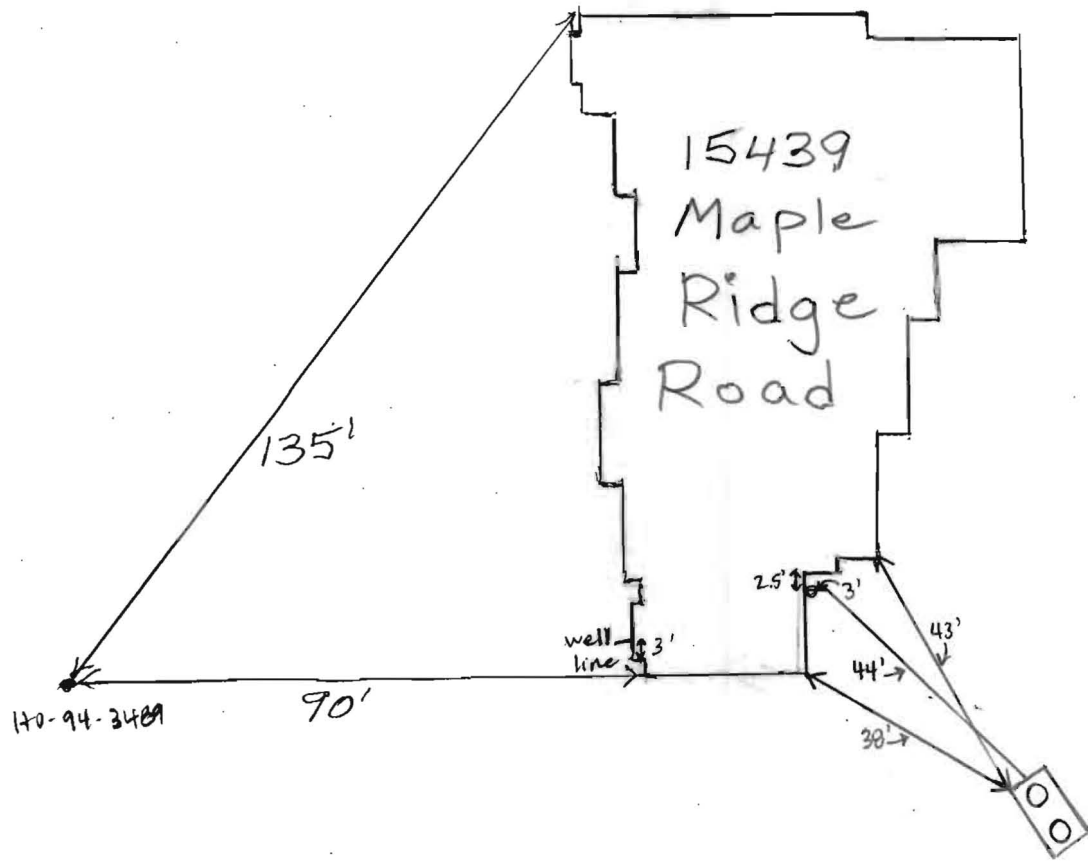
PRE-CONSTRUCTION:

9/23/15 Met with Paul Dymond on site. LOD partially marked ^{with site fence} - force main will stay close to driveway to stay within LOD. Tank staked, will be 1500-gal 1-compartment tank from Babylon. 4" tie-in pipe is broken above ground - Paul has contacted Utilities and he will fix before they inspect. (SC)

INSTALLATION:

9/25/2015 Tank set, (BB) 9/29/15 House connection made. Pipe laid between house and tank. Inlet currently has a 4" baffle - Dymond will swap for 6". Digging trench and laying force main - 2" poly water surface tubing, ASTM D2737, 1/4" thick walls. (SC) 9/30/15 - plc to contractor but not on site @ time of insp. Trench from house to tank and tank hole completely flooded; trench for force main collapsed in many places - see pic. (BB) 1/8/16 6" inlet baffle installed. Need pump + alarm. (SC) 3/30/16 On site for pump + alarm. Alarm sounds, pump pumps effluent to connection to shared system at street. Pump + alarm on separate circuits (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 3/30/16





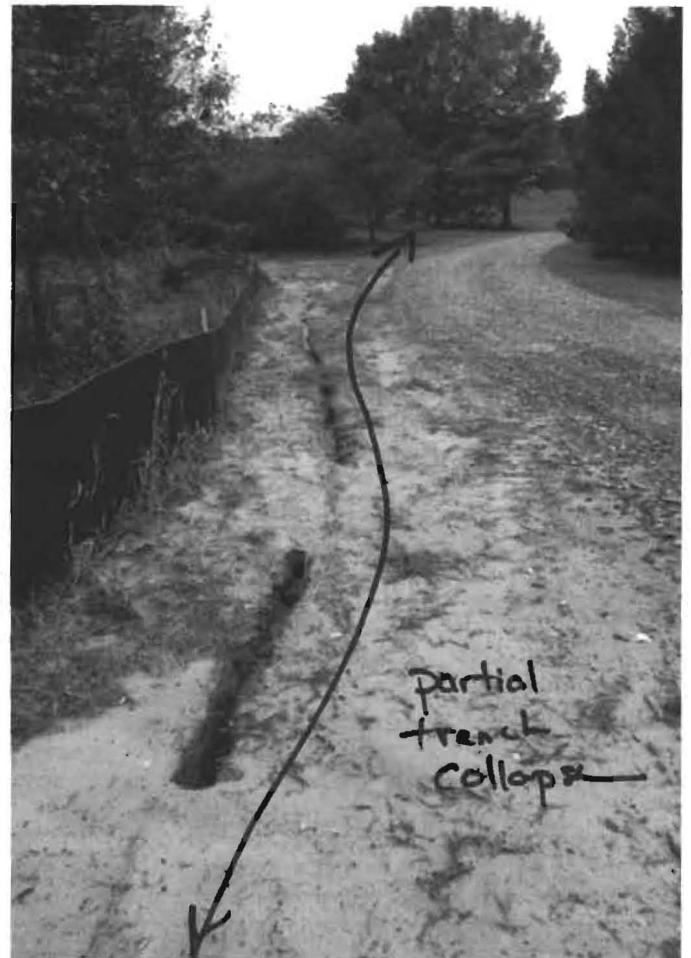
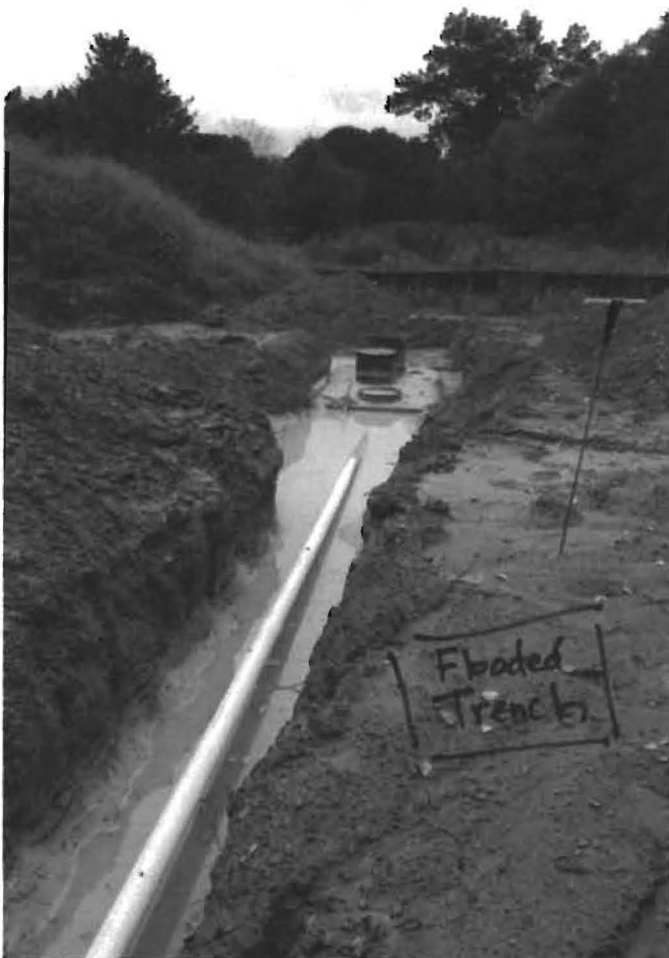
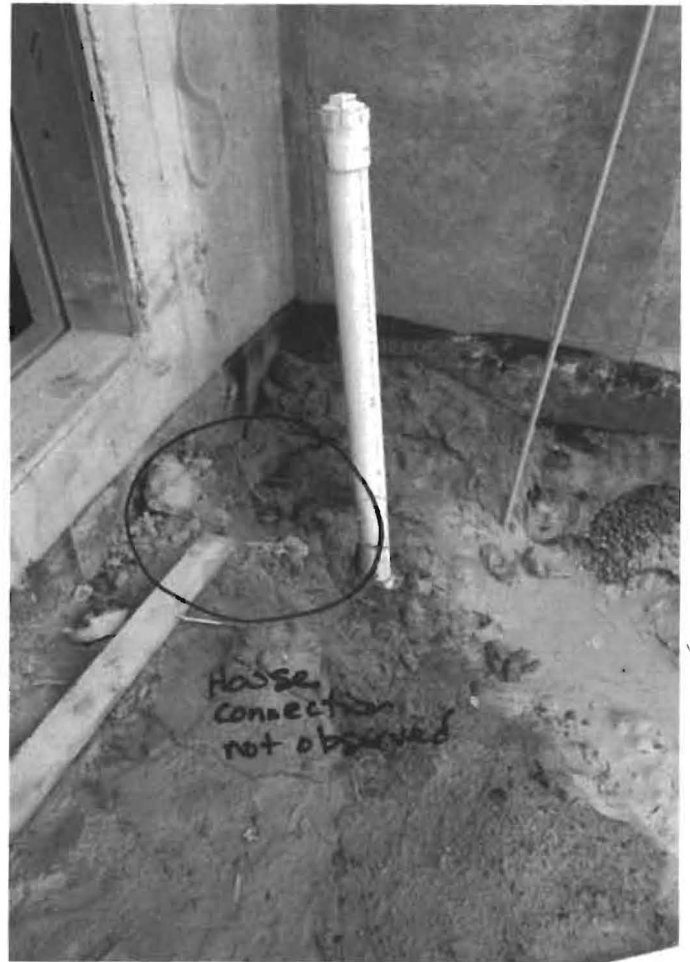
9/30/15
15439 Maple Ridge Rd

Trench's Tank
hole flooded

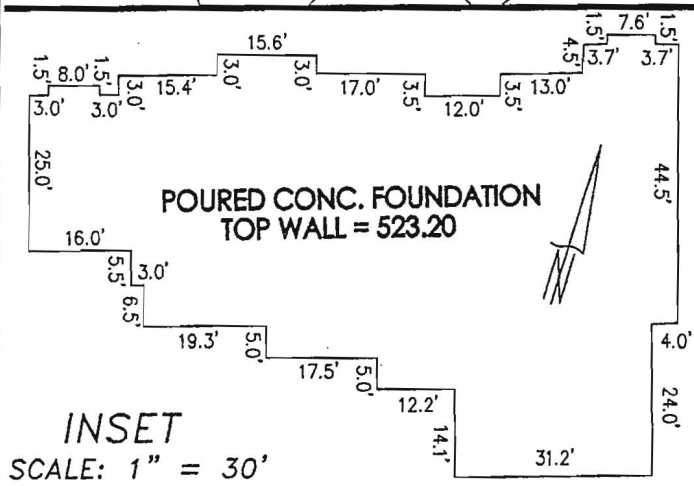
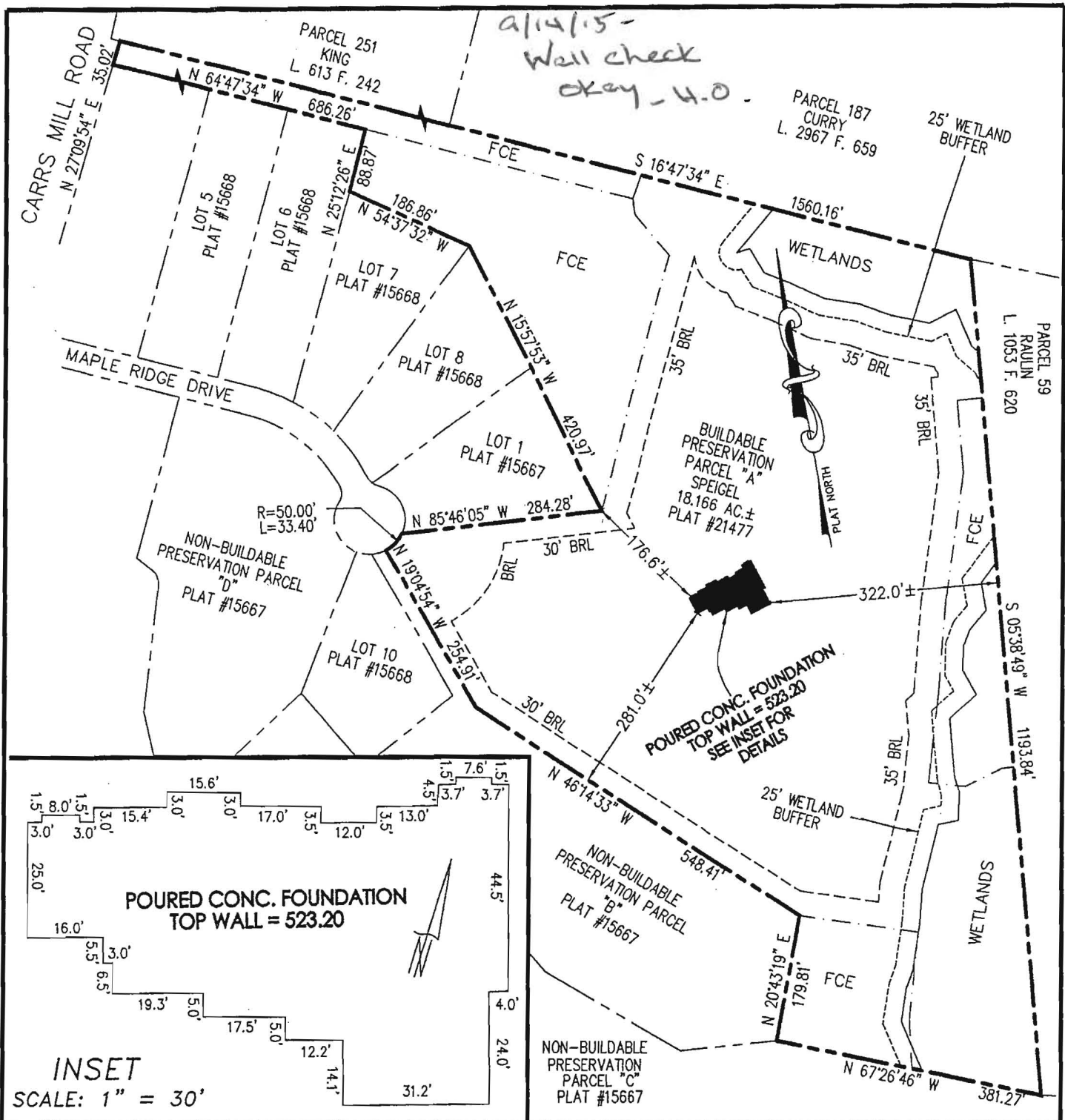


Tank lids on
under risers.

9/30/15 Site inspection

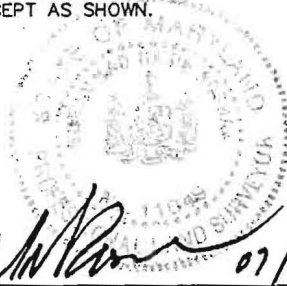


2/14/15 -
Wall check
okay - H.O.



INSET
SCALE: 1" = 30'

I HEREBY CERTIFY THAT IMPROVEMENTS ARE LOCATED AS SHOWN HEREON AND TO THE BEST OF MY INFORMATION, PROFESSIONAL KNOWLEDGE AND BELIEF, THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.



M.N. Roshan
M.N. ROSHAN, L.S. DATE 07/27/15
MD REG. No. 11049

WALL CHECK SURVEY
BUILDABLE PRESERVATION
PARCEL "A"
MAPLE RIDGE SUBDIVISION, PLAT No. 21477
4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 200' DATE: JULY 27, 2015



NJR & ASSOCIATES, LLC.
LAND SURVEYING AND PLANNING
1813 MONTEVIDEO ROAD
JESSUP, MARYLAND 20794
TEL: (410)799-9089 FAX: (410)799-9093

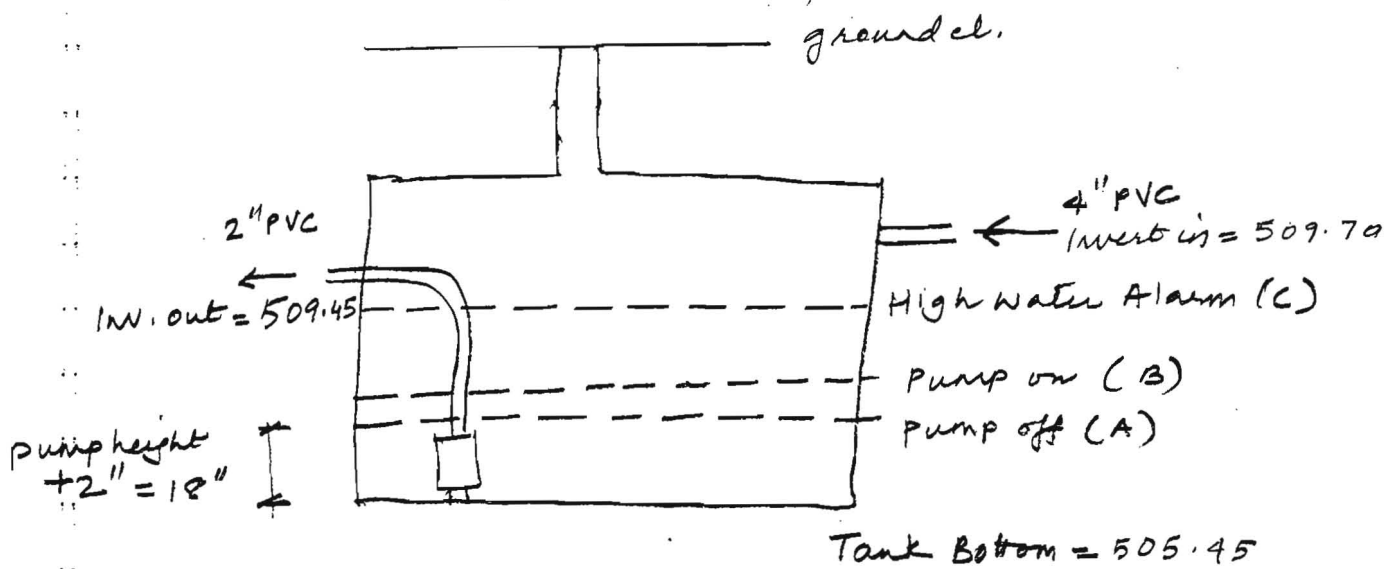
FILE No. 9269
NJR

April 13, 2015

PUMP DESIGN
SPIEGEL RESIDENCE

Design Flow (5 bedrooms) = 750 gpd.
= $750 / 24 \times 60 = 0.52 \text{ gpm}$

Use 1,500 gal. pump chamber



Tank Base Area = $12.42' \times 6.17' = 76.57 \text{ SF}$

Volume between (A) and (C) should be 1 day storage = 750 gal (SBR)

Determine pump chambers 'gallons per inch'

$$= (\text{Tank area} \times 7.5) / 12 = (76.57 \times 7.5) / 12 = 47.85 \text{ gal/in.}$$

$$\therefore \text{Storage volume / difference C-A} = 750 / 47.85 = 15.67''$$

or 1.31'

$$\text{Pump off elevation} = \text{Tank bottom} + \text{pump height} + 2'' \quad (\text{A})$$
$$= 505.45 + 16'' + 2'' = 506.95$$

$$\text{High water alarm elev.} = (\text{A}) + 1.31 = 506.95 + 1.31 = 508.26$$

Calculate pump on elevation (B)

Dosing volume of 50 gal pumped between pump on (B) and pump off (A)

$$\begin{aligned} \therefore \text{Difference between (B) \& (A)} &= \text{dosing volume / gal/in.} \\ &= 50 \text{ gal} / 47.85 = 1.05'' \text{ or } 0.09' \end{aligned}$$

$$\begin{aligned} \therefore \text{pump on elevation (B)} &= (A) + 0.09 \\ &= 506.95 + 0.09 = 507.04 \end{aligned}$$

Pump Sizing

1. Calculate dynamic head

Total pipe length = 520'

Total no. of fittings = 9 bends + 1 reducer = 10 = 25' equiv. length

Assume 2 valves = 40' equivalent length.

Total effective pipe length = 520 + 25 + 40 = 585'

Maintain 2'/sec velocity in 2" ϕ pipe.

Minimum GPM reqd. is 21 gpm. Use 25 gpm.

Friction loss in 2" ϕ pipe, @ 25 gpm = 1.29 ft/100 ft

$$\text{Dynamic head} = (585 \times 1.29) / 100 = 7.55'$$

2. Calculate static head.

Invert at existing 4" SHC stub = 526.43

pump off elevation (A) = 506.95

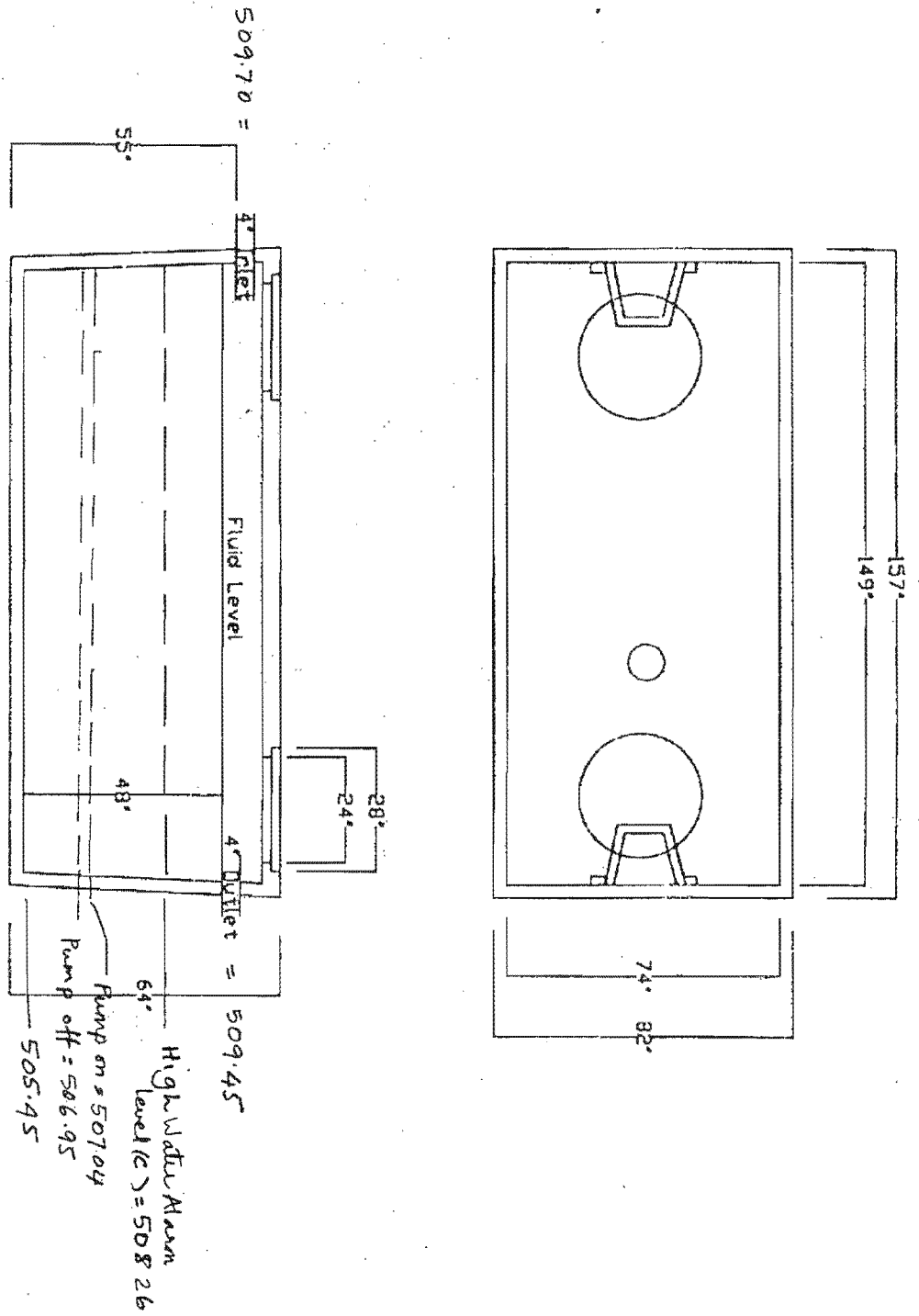
$$\text{Static head} = 526.43 - 506.95 = 19.48'$$

$$\text{Total head loss} = \text{static head} + \text{dynamic head} = 19.48 + 7.55 = 27.03'$$

Based on pump curves, select 0.15 hp pump
[Model WE 05 H]

Based on pump curves, select 0.15 hp pump
[Model WE 05 H]

1500 Gallon Top Seam Septic Tank



BABYLON VAULT COMPANY, INC.

925 Wakefield Valley Road
 New Windsor, MD. 21776
 Phone # 410-848-0393
 Fax # 410-848-3555



FEATURES

Impeller: Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.

Mechanical Seal: Silicon Carbide vs. Silicon Carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components.

Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

WE Series

Model 3885

SUBMERSIBLE EFFLUENT PUMPS

Wastewater

APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS

Pump

- Solids handling capabilities: 3/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on 1/3 - 1 1/2 HP models.
- Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

- SJTOW or STOW severe duty oil and water resistant power cords.
- 1/3 - 1 HP models have NEMA three prong grounding plugs.
- 1 1/2 HP and larger units have bare lead cord ends.

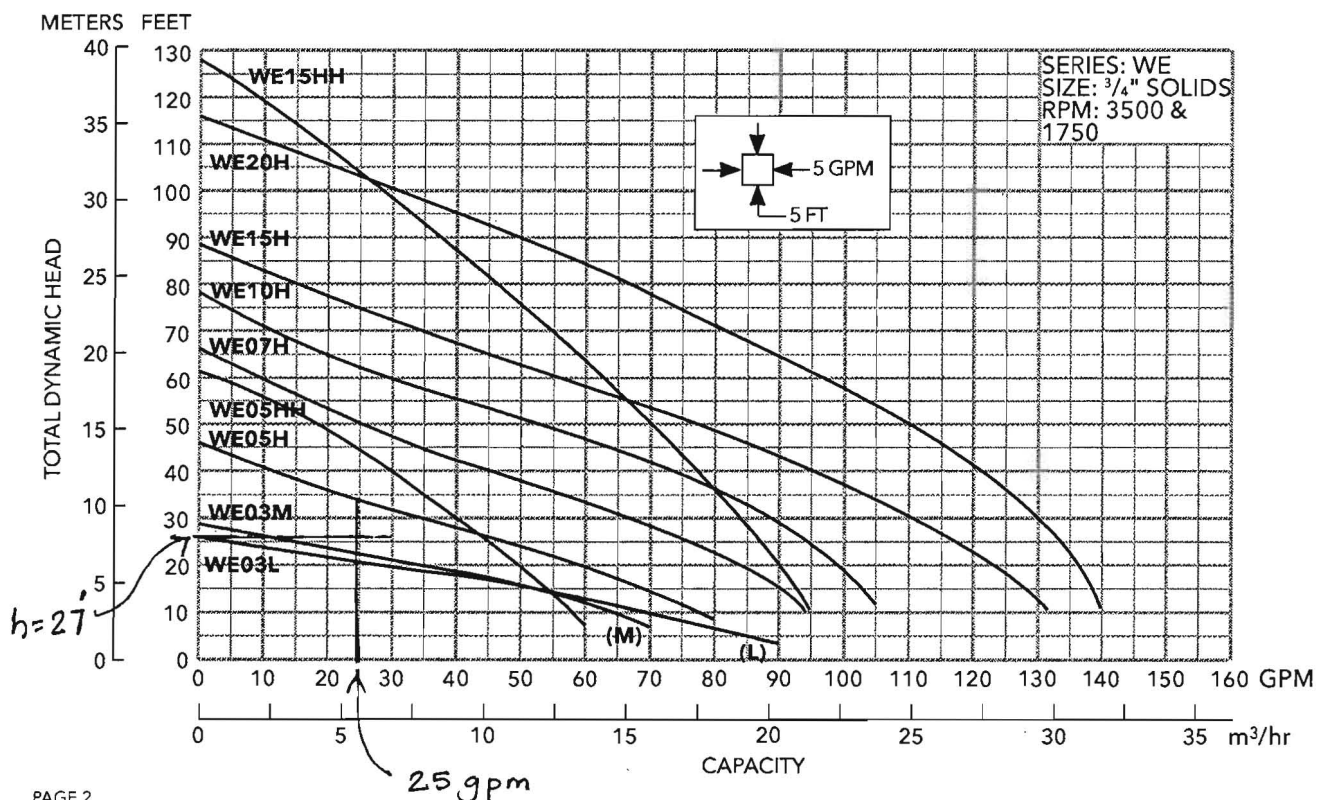
Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- O-ring: Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association File #LR38549



Wastewater

MODELS

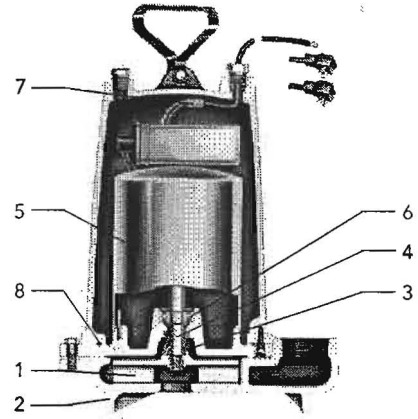
Order Number	HP	Phase	Volts	RPM	Impeller Diameter (in.)	Maximum Amps	Locked Rotor Amps	KVA Code	Full Load Efficiency %	Resistance		Power Cable Size	Weight (lbs.)		
										Start	Line-Line				
WE0311L	0.33	1	115	1750	5.38	10.7	30.0	M	54	11.9	1.7	16/3	56		
WE0318L			208			6.8	19.5	K	51	9.1	4.2				
WE0312L			230			4.9	14.1	L	53	14.5	8.0				
WE0311M			115			10.7	30.0	M	54	11.9	1.7				
WE0318M			208			6.8	19.5	K	51	9.1	4.2				
WE0312M			230			4.9	14.1	L	53	14.5	8.0				
WE0511H	0.5	1	115	3450	3.56	14.5	46.0	M	54	7.5	1.0	14/3	60		
WE0518H			208			8.1	31.0	K	68	9.7	2.4	16/3	60		
WE0512H			230			7.3	34.5	M	53	9.6	4.0	14/4	60		
WE0538H			3			200	4.9	22.6	R	68	NA	3.8	14/4	60	
WE0532H						230	3.3	18.8	R	70	NA	5.8			
WE0534H						460	1.7	9.4	R	70	NA	23.2			
WE0537H		575	1.4		7.5	R	62	NA	35.3						
WE0511HH		1	1		115	3.88	3.88	14.5	46.0	M	54	7.5	1.0	14/3	60
WE0518HH					208			8.1	31.0	K	68	9.7	2.4	16/3	60
WE0512HH					230			7.3	34.5	M	53	9.6	4.0	14/4	60
WE0538HH			3		200			4.9	22.6	R	68	NA	3.8	14/4	60
WE0532HH					230			3.6	18.8	R	70	NA	5.8		
WE0534HH	460			1.8	9.4			R	70	NA	23.2				
WE0537HH	575	1.5	7.5	R	62	NA	35.3								
WE0718H	0.75	1	208	4.06	4.06	11.0	31.0	K	68	9.7	2.4	14/3	70		
WE0712H			230			10.0	27.5	J	65	12.2	2.7	14/4	70		
WE0738H			200			6.2	20.6	L	64	NA	5.7	14/4	70		
WE0732H		3	230			5.4	15.7	K	68	NA	8.6				
WE0734H			460			2.7	7.9	K	68	NA	34.2				
WE0737H			575			2.2	9.9	L	78	NA	26.5				
WE1018H	1	1	208	4.44	4.44	14.0	59.0	K	68	9.3	1.1	14/3	70		
WE1012H			230			12.5	36.2	J	69	10.3	2.1	14/4	70		
WE1038H			200			8.1	37.6	M	77	NA	2.7	14/4	70		
WE1032H		3	230			7.0	24.1	L	79	NA	4.1				
WE1034H			460			3.5	12.1	L	79	NA	16.2				
WE1037H			575			2.8	9.9	L	78	NA	26.5				
WE1518H	1.5	1	208	5.50	4.56	17.5	59.0	K	68	9.3	1.1	14/3	80		
WE1512H			230			15.7	50.0	H	68	11.3	1.6	14/4	80		
WE1538H			3			200	10.6	40.6	K	79	NA	1.9	14/4	80	
WE1532H						230	9.2	31.7	K	78	NA	2.9			
WE1534H						460	4.6	15.9	K	78	NA	11.4			
WE1537H			575			3.7	13.1	K	75	NA	16.9				
WE1518HH		1	1		208	5.50	5.50	17.5	59.0	K	68	9.3	1.1	14/3	80
WE1512HH					230			15.7	50.0	H	68	11.3	1.6	14/4	80
WE1538HH					3			200	10.6	40.6	K	79	NA	1.9	14/4
WE1532HH			230					9.2	31.7	K	78	NA	2.9		
WE1534HH			460					4.6	15.9	K	78	NA	11.4		
WE1537HH			575		3.7			13.1	K	75	NA	16.9			
WE2012H	2	1	230	5.38	5.38	18.0	49.6	F	78	3.2	1.2	14/3	83		
WE2038H			200			12.0	42.4	K	78	NA	1.7	14/4	83		
WE2032H			3			230	11.6	42.4	K	78	NA			1.7	
WE2034H		460				5.8	21.2	K	78	NA	6.6				
WE2037H		575				4.7	16.3	L	78	NA	10.5				

PERFORMANCE RATINGS (gallons per minute)

Order No.	WE-03L	WE-03M	WE-05H	WE-07H	WE-10H	WE-15H	WE-05HH	WE-15HH	WE-20H	
Total Head Feet of Water	HP	1/3	1/3	1/2	3/4	1	1 1/2	1/2	1 1/2	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
	5	86	-	-	-	-	-	-	-	-
	10	70	63	78	94	-	-	58	95	-
	15	52	52	70	90	103	128	53	93	138
	20	27	35	60	83	98	123	49	90	136
	25	5	15	45	76	94	117	45	87	133
	30	-	-	35	67	88	110	40	83	130
	35	-	-	22	57	82	103	35	80	126
	40	-	-	-	45	74	95	30	77	121
	45	-	-	-	35	64	86	25	74	116
	50	-	-	-	25	53	77	-	70	110
	55	-	-	-	-	40	67	-	66	103
	60	-	-	-	-	30	56	-	63	96
	65	-	-	-	-	20	45	-	58	89
	70	-	-	-	-	-	35	-	55	81
	75	-	-	-	-	-	25	-	51	74
	80	-	-	-	-	-	-	-	47	66
	90	-	-	-	-	-	-	-	37	49
	100	-	-	-	-	-	-	-	28	30

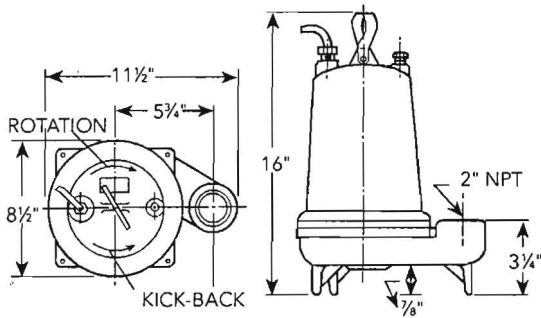
COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring

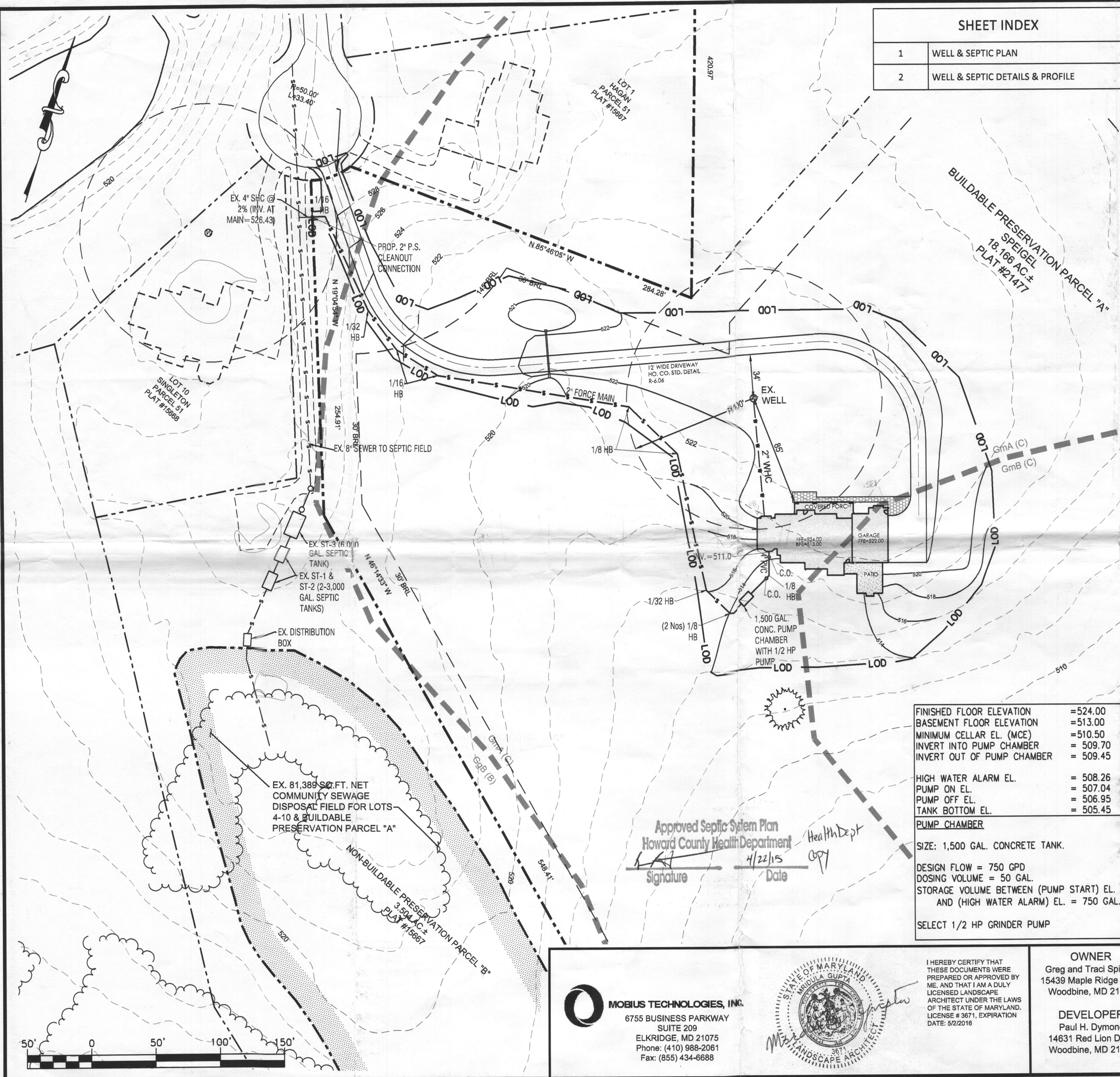


DIMENSIONS

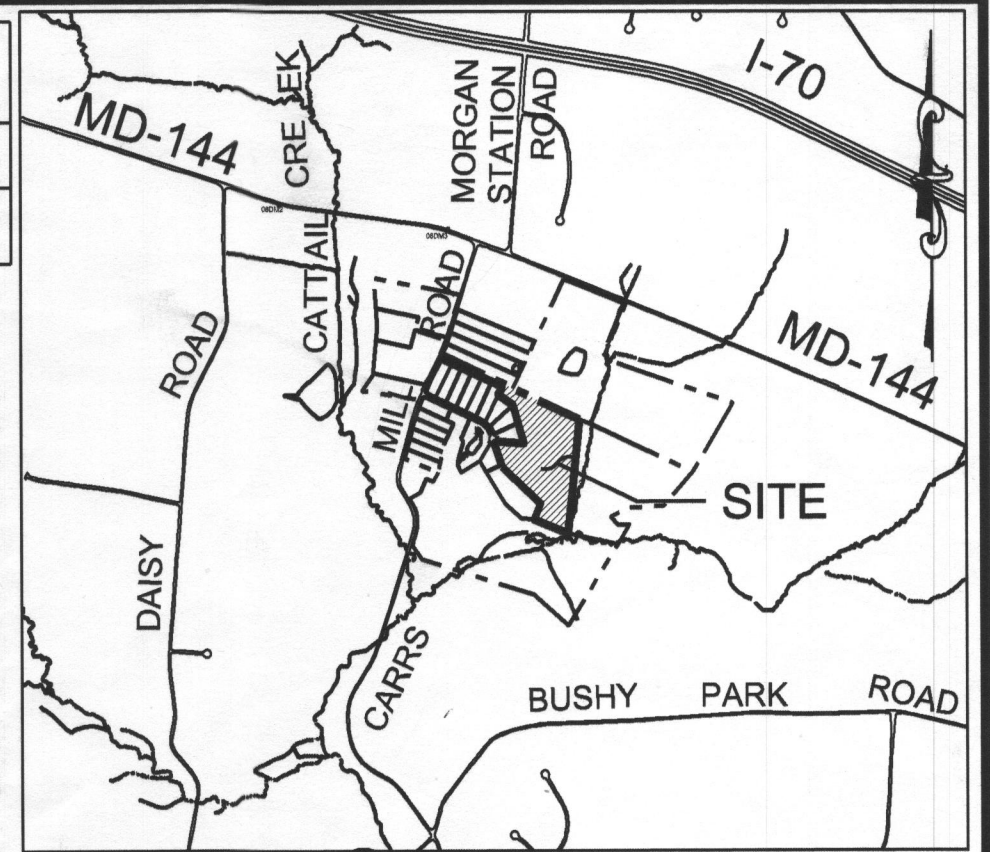
(All dimensions are in inches. Do not use for construction purposes.)



Xylem, Inc.
 2881 East Bayard Street Ext., Suite A
 Seneca Falls, NY 13148
 Phone: (866) 325-4210
 Fax: (888) 322-5877
www.xylem.com/brands/gouldswatertechnology
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SHEET INDEX	
1	WELL & SEPTIC PLAN
2	WELL & SEPTIC DETAILS & PROFILE



VICINITY MAP
ADC MAP/GRID # 4692-C8
SCALE 1"=2000'

BENCHMARKS		
HOWARD COUNTY GEODETIC CONTROL STATION - 08DA	N 606,934.189	E 1,295,730.523
		ELEV. 554.836 (NAVD 88)
HOWARD COUNTY GEODETIC CONTROL STATION - 08HA	N 604,769.622	E 1,302,045.281
		ELEV. 621.796 (NAVD 88)

- GENERAL NOTES
- Existing use: single family residential
 - Proposed use: single family residential
 - Proposed sewer - private; proposed water - private
 - Topography is shown as per Howard County GIS topographical survey dated 2013.
 - Property lines positioned hereon based on recorded Howard County Plat #21476-21478, "Amendment plat, Maple Ridge, Buildable Preservation Parcel "A" & Non-buildable Preservation Parcel "C" and prepared by FSH Associates.
 - 100-year floodplain, stream buffer, wetlands, wetland buffers on site are shown as per Plats #21476-21478.
 - Contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being done.
 - The lot shown herein complies with the minimum ownership, width, and lot area as required by the Maryland Department of the Environment.
 - Ground water appropriation permit number HO 200 IG008 (01)
 - Shared septic system for Lots 4,5,6,7,8,9,10, and Buildable Preservation parcel "A" approved on 1/19/2011. Plat #21476.

This area designates a private sewage area of at least 10,000 sq.ft. (or 10,000 sq.ft. per lot for shared drain fields associated with a shared sewage disposal facility) as required by the Maryland Department of the Environment for individual sewage disposal. Improvements of any nature in this easement are restricted. This easement 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 easement. Recordation of revised sewage easement shall not be necessary.

FINISHED FLOOR ELEVATION	= 524.00
BASEMENT FLOOR ELEVATION	= 513.00
MINIMUM CELLAR EL. (MCE)	= 510.50
INVERT INTO PUMP CHAMBER	= 509.70
INVERT OUT OF PUMP CHAMBER	= 509.45
HIGH WATER ALARM EL.	= 508.26
PUMP ON EL.	= 507.04
PUMP OFF EL.	= 506.95
TANK BOTTOM EL.	= 505.45

PUMP CHAMBER
 SIZE: 1,500 GAL. CONCRETE TANK.
 DESIGN FLOW = 750 GPD
 DOSING VOLUME = 50 GAL.
 STORAGE VOLUME BETWEEN (PUMP START) EL. AND (HIGH WATER ALARM) EL. = 750 GAL.
 SELECT 1/2 HP GRINDER PUMP

SOIL TABLE			
SYMBOL	NAME/DESCRIPTION	HYDRIC	TYPE
BaA	Baile silt loam, 0 to 3 % slopes	YES	D
GmA	Glenville silt loam, 0 to 3 % slopes	NO	C
GmB	Glenville silt loam, 3 to 8 % slopes	NO	C
GgB	Glengel loam, 3 to 8 % slopes	NO	B
Co	Codorus and Hatboro silt loams, 0 to 3 % slopes	NO	C

Howard County Soil Map No. 3

Approved Septic System Plan
 Howard County Health Department
 Signature: [Signature] Date: 4/22/15
 Health Dept Copy

MOBIUS TECHNOLOGIES, INC.
 6755 BUSINESS PARKWAY SUITE 209
 ELKRIDGE, MD 21075
 Phone: (410) 988-2061
 Fax: (855) 434-6688



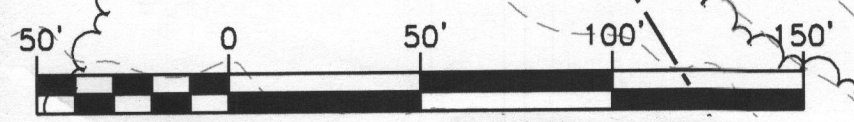
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE # 3671, EXPIRATION DATE: 5/2/2016

OWNER
 Greg and Traci Spiegel
 15439 Maple Ridge Drive
 Woodbine, MD 21797

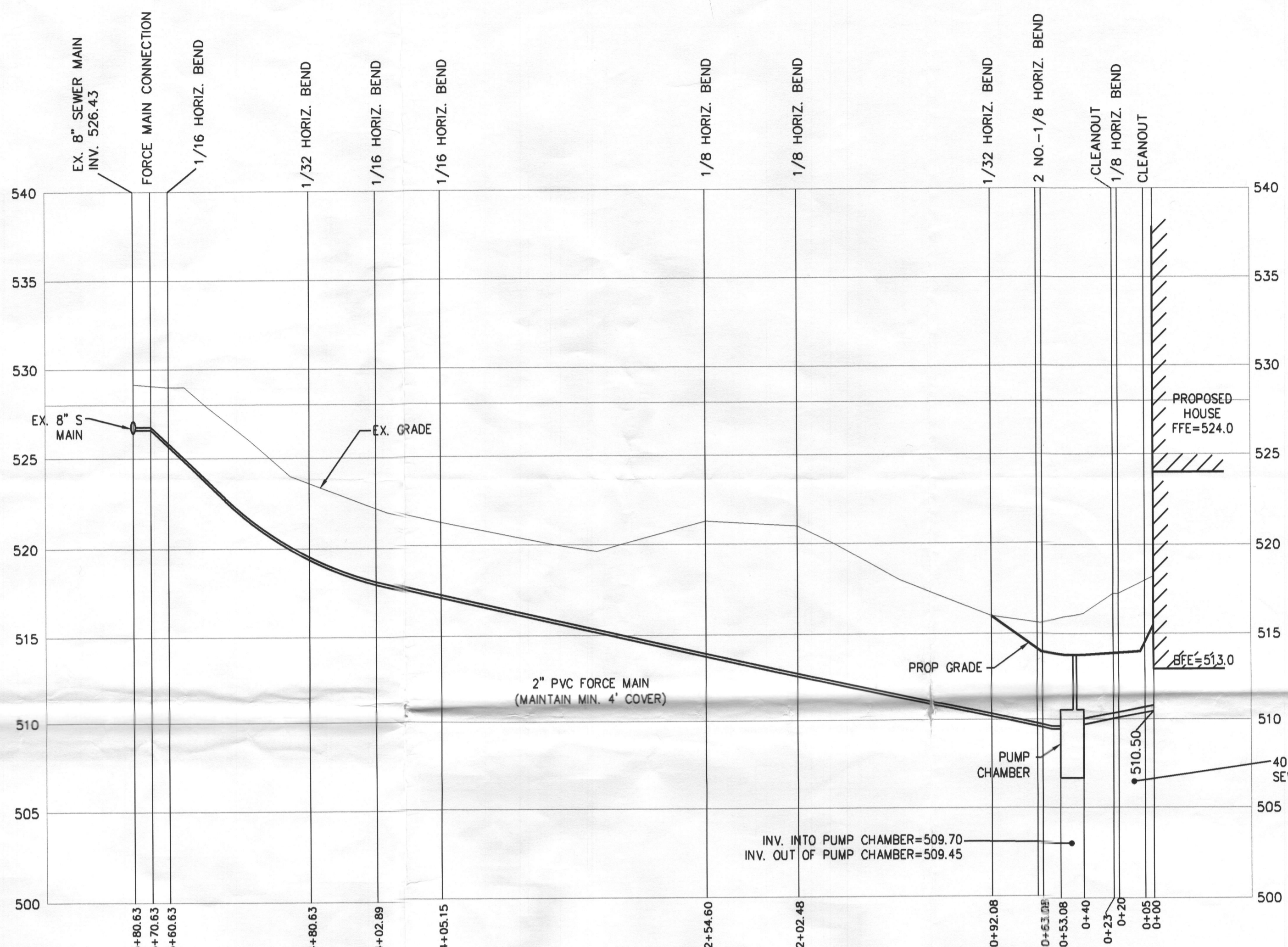
DEVELOPER
 Paul H. Dymond
 14631 Red Lion Drive
 Woodbine, MD 21797

WELL & SEPTIC PLAN
SPIEGEL RESIDENCE
 15439 MAPLE RIDGE DRIVE, WOODBINE, MD 21797
 BUILDABLE PRESERVATION PARCEL "A", MAPLE RIDGE
 PLATS 21476-21478 LIBER 15951, FOLIO 387
 ZONING RC-DEO 4th ELECTION DIST. HOWARD COUNTY
 TAX MAP - 8 GRID - 14 PARCEL - 51

SCALE: 1" = 50' DATE: 04/17/2015 SHEET: 1 OF 2



Health Dept. Copy
 B15000853

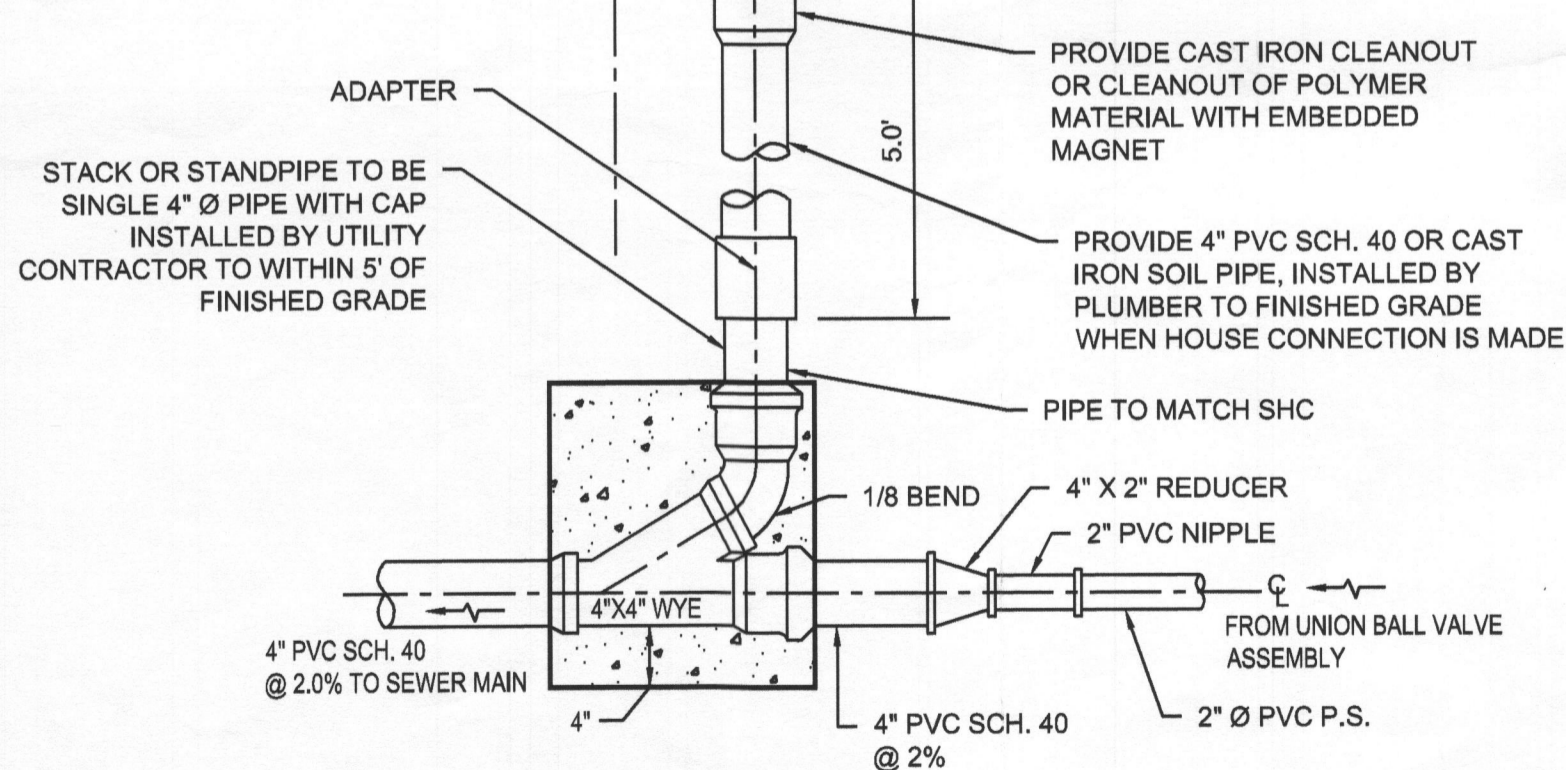


COUNTY MAINTENANCE (PUBLIC SHC) | PRIVATE MAINTENANCE BY LOT OWNER (PRIVATE SHC)

SEE HOWARD COUNTY STD. DETAIL S-2.11

FINISHED GRADE

USE INVERTED TYPE CLEANOUT PLUG



DETAIL - FORCE MAIN HOUSE CONNECTION (NTS)

Approved Septic System Plan
Howard County Health Department

Signature _____ Date _____

MOBIUS TECHNOLOGIES, INC.
6755 BUSINESS PARKWAY SUITE 209
ELK RIDGE, MD 21075
Phone: (410) 988-2061
Fax: (855) 434-6688



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE # 3671, EXPIRATION DATE: 9/2/2016

OWNER
Greg and Traci Spiegel
15439 Maple Ridge Drive
Woodbine, MD 21797

DEVELOPER
Paul H. Dymond
14631 Red Lion Drive
Woodbine, MD 21797

WELL & SEPTIC DETAILS & PROFILE SPIEGEL RESIDENCE

15439 MAPLE RIDGE DRIVE, WOODBINE, MD 21797
BUILDABLE PRESERVATION PARCEL "A", MAPLE RIDGE
PLATS 21476-21478 LIBER 15951, FOLIO 387
ZONING RC-DEO 4th ELECTION DIST. HOWARD COUNTY
TAX MAP - 8 GRID - 14 PARCEL - 51

SCALE: AS SHOWN | DATE: 04/17/2015 | SHEET: 2 OF 2