



Howard County
Health Department

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: 6/26/18 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 563038

APPROVAL DATE: 8/2/18 SEC **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 8522 BLOUNTS LANE, FULTON, MD 20759

SUBDIVISION: TAX MAP 45, PARCEL 53

LOT: ----- TAX ID: 05-372712

CONTRACTOR: Double K Excavating

EMAIL: rfleming@doublekcontractors.com

CONTRACTOR ADDRESS: P.O. Box 536, Damascus, MD 20872

PHONE: (240) 281-6001

PROPERTY OWNER: WILLIAM E and DANA WALKER JR

EMAIL: Bwalker32@gmail.com

OWNER ADDRESS: 4801 DAISY CREEK TERRACE, BELTSVILLE, MD 20705

PHONE: (301)928-3831

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: MARYLAND CONCRETE, INC.

PUMP MODEL: LIBERTY

PUMP SIZE 0.3

PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: ^{XX} GRAVITY

PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>115' 131'</u>	INLET DEPTH: <u>40' 3.5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.5' 7'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	AT PRE-CONSTRUCTION MEETING, ATTENDING ENVIRONMENTAL SANITARIAN MAY ELECT TO REQUIRE AN OBSERVATION OF SOIL DEPTH JUST UPHILL OF PROPOSED UPPER TRENCH LOCATION. A PUMP AND ALARM TEST IS REQUIRED FOR FINAL APPROVAL OF INSTALLATION. <u>2 x 65' trenches</u>	

ISSUED BY: R BRICKER

ISSUE DATE: 6/26/2018 EXPIRATION DATE: 6/26/2019

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 DOWNGRADE 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 AAAB E18000393

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

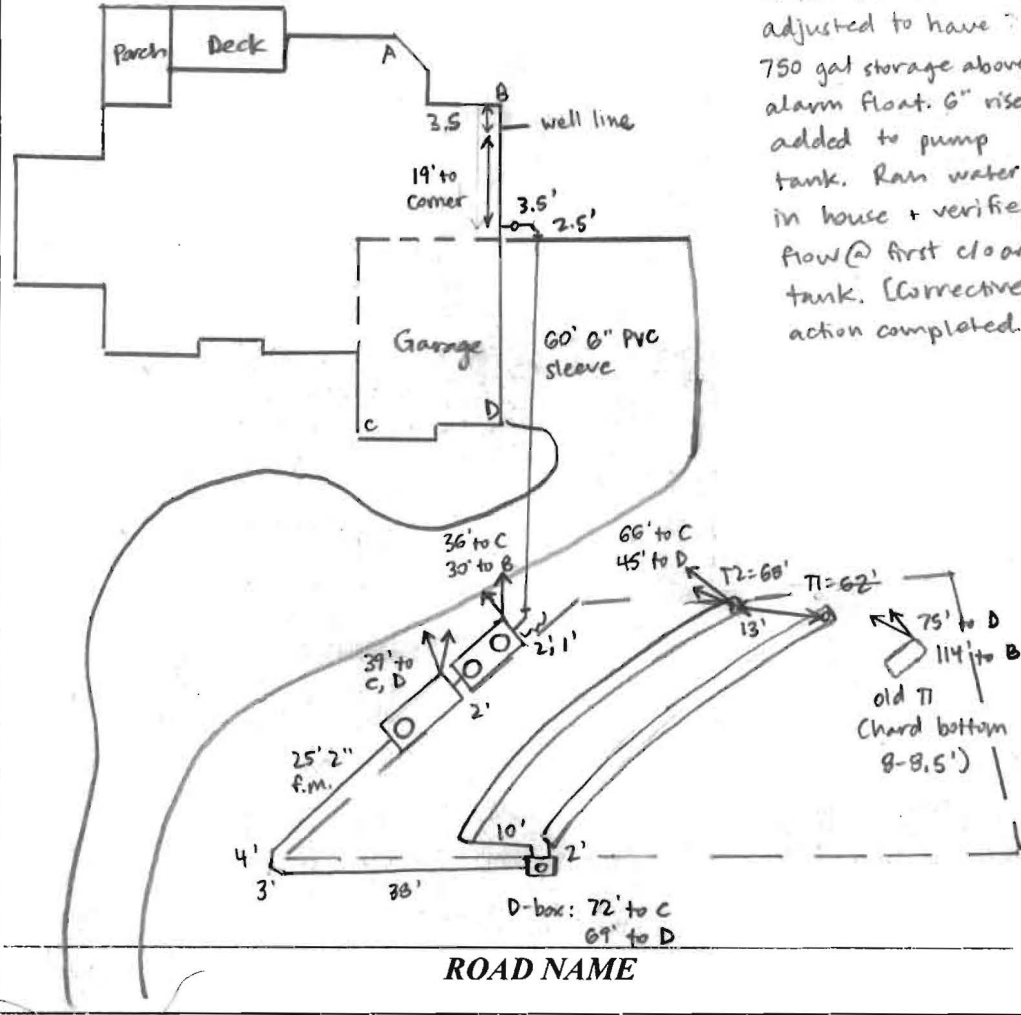
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE

1" ≈ 30'



W HO-95-1000
174' to A, 103' to B
W HO-95-0329 (well for 8520 Blounts Ln.)
120' to A, 126' to B

8/2/18 Floats adjusted to have 750 gal storage above alarm float. 6" riser added to pump tank. Rain water in house + verified flow @ first cloard tank. [Corrective action completed.]

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3.5'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		130'
ABSORPTION AREA		390' + SIDEWALK
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5-3'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	5-14-18
PUMP/SEPTIC TANK LEVEL YES	
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	3'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	4-15-18
Pump: Gould's 1/2 hp WED312-M	

PRE-CONSTRUCTION:

6/27/18 Met Rick from Double K on site for layout. Two SDA stakes on N edge present, others not. Rick scaled off LOD + flagged rest of area. Shot contour + laid out a 57' + 58' trench. Tanks not staked, found area for them 7' off future driveway against SDA line. Sewer line not coming out where shown on plan. Shot elevations + septic tank will have 1.5' cover, a bit more over pump tank. Fin. to run along driveway out of septic hole. Rick will dig end of T1 to 11.5' to check for 4' buffer + fill back in

INSTALLATION:

to 7.5' bottom if 4' buffer is met. 6/29/18 Rick dug @ T1 end - hard bottom @ 8-8.5'. Found space for 1x57' trench below original T2. Dug @ end of new T2 - hard bottom @ 11'. Change specs to 7' bottom, inlet 3.5', 2x66' trenches. Pipe laid from house to tank location, 60' 6" PVC sleeve installed under driveway. Need house connection. 7/2/18 Tanks set, 2" force main installed around SDA up to D-box and T1 dug, 3' wide 7' bottom. 7/2/18 T2 dug + stone added. 3' wide, 3.5' inlet. Need pump + alarm test and house connection. 8/1/18 On site for pump + alarm test. Pump pumps effluent to D-box, alarm sounds. Need 6" riser extension on pump tank. Need 31" storage (= 750 gal) above high alarm float. Must confirm house connection

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 8/2/18

by running water in house + looking into 15' clo outside house. [Corrective action.]

Bricker, Robert

From: Bricker, Robert
Sent: Thursday, July 06, 2017 2:29 PM
To: 'Peter Staley'
Subject: RE: 8522 Blounts
Attachments: OSDS design plan requirements 11.21.16.pdf; 8522 Blounts Lane_septic system specifications.pdf

Pete,

I know you asked about obtaining a septic system permit, but please read through the several paragraphs below. To obtain a building permit, you must submit the County's application form, plot plan, floor plans and other required information to the Department of Inspections, Licenses, and Permits. Copies of the floor plan and Plot Plan for the Health Department are submitted in the application packet for the County.

The Health Department requires that the septic system installation plan, either a Best Available Technology (BAT) Plan or an Onsite Sewage Disposal System (OSDS) Plan, be approved prior to approval of the Building Permit by the Health Department. At least three (3) copies of either a BAT Plan or OSDS Design Plan are to be submitted directly to the Health Department for review and potential approval. The plan may not be approved until the floor plans and building permit application are received and reviewed.

I have attached a PDF that describes the required plan content for an OSDS Design Plan. A BAT Plan for installation of a BAT unit would be required instead if three drainfields for the proposed structure cannot fit in the approved Sewage Disposal Area (SDA). You will notice that I have recommended that part of the SDA not be used. If that area represented by perc test #7 is used, the disposal system for a 4 -bedroom residence would require 333 linear feet of 3-foot wide trench.

If an OSDS system is planned, payment of permit fee and a Foundation Location Drawing are required for the release of the septic system permit. An active electrical permit is also required if the system includes a BAT unit or has a pump and controls. If a BAT unit is required, and Operation & Maintenance Agreement must be signed by the owner(s) and our Bureau Director, then submitted by the owner at Land Records for recording.

As always, you may contact me regarding the questions you may.

Robert Bricker, REHS/RS, L.E.H.S.

Environmental Sanitarian II, Well and Septic Program

From: Peter Staley [<mailto:pstaley@benninglandplan.com>]

Sent: Monday, July 03, 2017 8:11 AM

To: Bricker, Robert

Subject: 8522 Blounts

Robert,

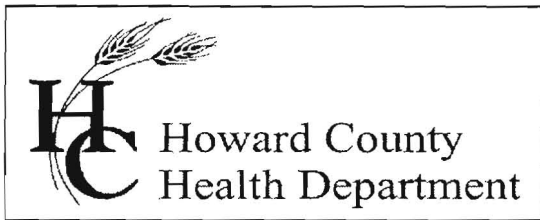
Thank you for the well information. Are there any additional notes or information needed for the property to apply for the septic permit?

Pete

Peter Staley

Benning & Associates, Inc.
Land Planning Consultants

8933 Shady Grove Court
Gaithersburg, MD 20877
(301)948-0240
(301)948-0241 fax



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www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

August 7, 2017

To: George Hamilton, Classic Homes of Maryland

Dear Mr. Hamilton,

I am reviewing the proposal for construction of a residence for William and Dana Walker at 8522 Blounts Lane in Howard County, MD. During review, it has become apparent that I need to communicate several issues of immediate concern for the Howard County Health Department, Bureau of Environmental Health.

Issues of concern identified on the Onsite Sewage Disposal System (OSDS) Plan:

1. The illustration on the plan implies grading over much of the parcel area, including the Sewage Disposal Areas (SDA). Be advised that grading is prohibited in SDA. The Plot Plan will have to be edited, primarily due to re-delineating the Limit-of-Disturbance.
2. To prevent damage during grading operations/site preparation, both sections of SDA are to be enclosed by a temporary fence. Material such as blaze orange netted plastic is appropriate as it is highly visible and easily installed.
3. The water line to serve the Walker residence must be installed in a relatively narrow strip between the property line and a Forest Conservation Easement. The property line must be marked by a surveyor, at least from the property corner near the well to a point past where the water line will turn toward the house. Similarly the boundary of the Forest Conservation Area must be marked by a surveyor as it approaches the area of the well easement.
4. The person who digs the trench for the water line must be informed about the water line that serves Lot 3 (8520 Blounts Lane). If it is possible to locate the water line serving 8520 Blounts Lane, the ground surface should be marked with a highly visible paint before excavation of the trench.
5. The water line serving the Walker residence must pass under the water line serving 8520 Blounts Lane, and it must be sleeved at the crossing of the two pipes. Please inform the person installation the water line about this requirement in a timely manner.

Please be advised that the fence around the SDA must be installed, the property line must be marked as described, and Forest Conservation Easement boundary must be marked as described prior to my approval of building permit application B17002751.

I have several comments concerning the content of the OSDS Plan that I am issuing to Benning & Associates, Inc., and I will copy those comments to you. The OSDS Plan (or BAT Plan) must be approved for the building permit application to be approved.

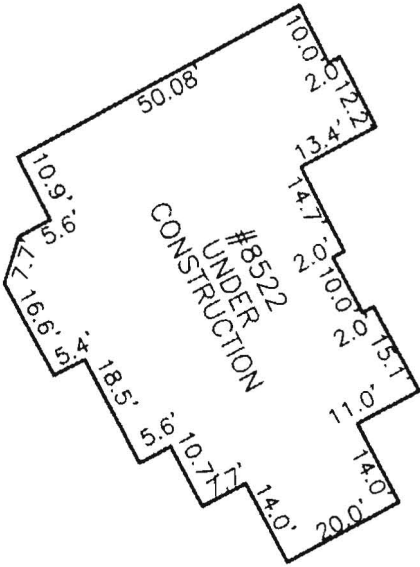
Respectfully,

A handwritten signature in black ink, appearing to read "Robert Bricker". The signature is written in a cursive style with a large initial "R".

Robert Bricker, REHS/R.S., L.E.H.S.
Environmental Health Specialist
Well and Septic Program

Copy: Chuck Krockner, Applicant
Byron Price, Price Consulting Engineering, Inc.
Peter Staley, Benning & Associates, Inc.
William Walker, Owner

HOUSE LOCATION DRAWING
 #8522 BLOUNTS LANE
 LIBER 11358 FOLIO 593
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

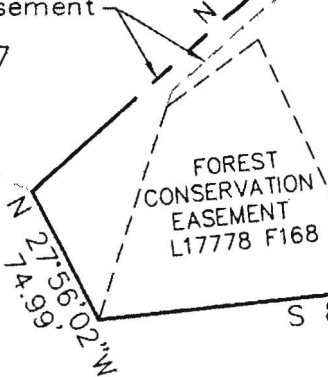


DETAIL SCALE 1"=30'

*Wall check 'OK'
 10/18*

CHARLES MCNAN & JANE LESCHNER
 LIBER 11315 FOLIO 417

Existing Well Easement
 To Lot 3
 L. 10251 F.577



L.11358 F.593
 58795 S.F. OR
 1.3497 AC.

20' PERPETUAL EASEMENT
 FOR INGRESS AND EGRESS
 L.11236 F.088
 & L.10482 F. 658

BLOUNT'S LANE
 (50' R/W)

LOT 2
 PLAT ONE
 BEAUFORT PARK
 PB. 10 P. 8

LOT 3
 PLAT ONE
 BEAUFORT PARK
 PB. 10 P. 8

LOT 4
 PLAT ONE
 BEAUFORT PARK
 PB. 10 P. 8

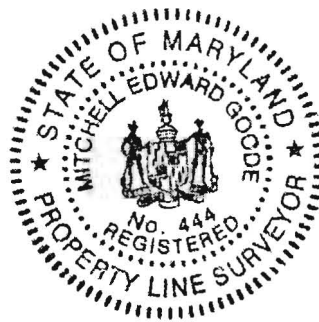
LOT 5
 FINAL PLAT
 MUNRO PROPERTY
 PLAT 23311

TOP OF CONCRETE FOUNDATION ELEV. = 388.84

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THE PROPERTY DELINEATED HEREON IS IN ACCORDANCE WITH THE PLAT OF SUBDIVISION AND/OR DEED OF RECORD; THAT THE IMPROVEMENTS WERE LOCATED BY ACCEPTED FIELD PRACTICES AND INCLUDES PERMANENT VISIBLE STRUCTURES AND ENCROACHMENTS IF ANY. THIS PLAT IS PREPARED FOR THE EXCLUSIVE USE OF THE PRESENT OWNERS OF THE PROPERTY AND ALSO THOSE WHO PURCHASE, MORTGAGE OR GUARENTEE THE TITLE THERETO AND AS TO THEM I WARRANT THE ACCURACY OF THIS PLAT.

11/22/17 *Mitchell E. Goode*
 DATE: MITCHELL E. GOODE, PROPERTY LINE SURVEYOR
 MARYLAND REG. NO. 444 EXPIRES 12-10-18



SCALE	1"=100'
WALL CHECK	11-7-17
	FINAL
JOB NO.	677

FLOOD CERTIFICATION

THIS PROPERTY DOES NOT LIE WITHIN THE LIMITS OF A FLOOD HAZARD AREA AS DELINEATED ON THE MAPS OF THE NATIONAL FLOOD INSURANCE PROGRAM.

NOTE TO CONSUMER

THIS PLAT IS OF BENEFIT TO THE CONSUMER ONLY INSOFAR AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS AND DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR REFINANCING.

TITLE REPORT NOT FURNISHED

GOODE SURVEYS, LLC
 LAND SURVEYORS
 P.O. BOX 599
 DAMASCUS, MARYLAND 20872
 PHONE: (301) 368-3700
 FAX: (301) 368-3703



David McKee <dmckee@benninglandplan.com>

Fwd: 8522 Blounts Lane_Walker proposal_OSDS Plan

Peter Staley <pstaley@benninglandplan.com>
To: David McKee <dmckee@benninglandplan.com>

Wed, Sep 13, 2017 at 3:18 PM

Peter Staley

Benning & Associates, Inc.
Land Planning Consultants
8933 Shady Grove Court
Gaithersburg, MD 20877
(301)948-0240
(301)948-0241 fax

----- Forwarded message -----

From: **Bricker, Robert** <RBricker@howardcountymd.gov>
Date: Wed, Sep 13, 2017 at 2:30 PM
Subject: 8522 Blounts Lane_Walker proposal_OSDS Plan
To: "pstaley@benninglandplan.com" <pstaley@benninglandplan.com>

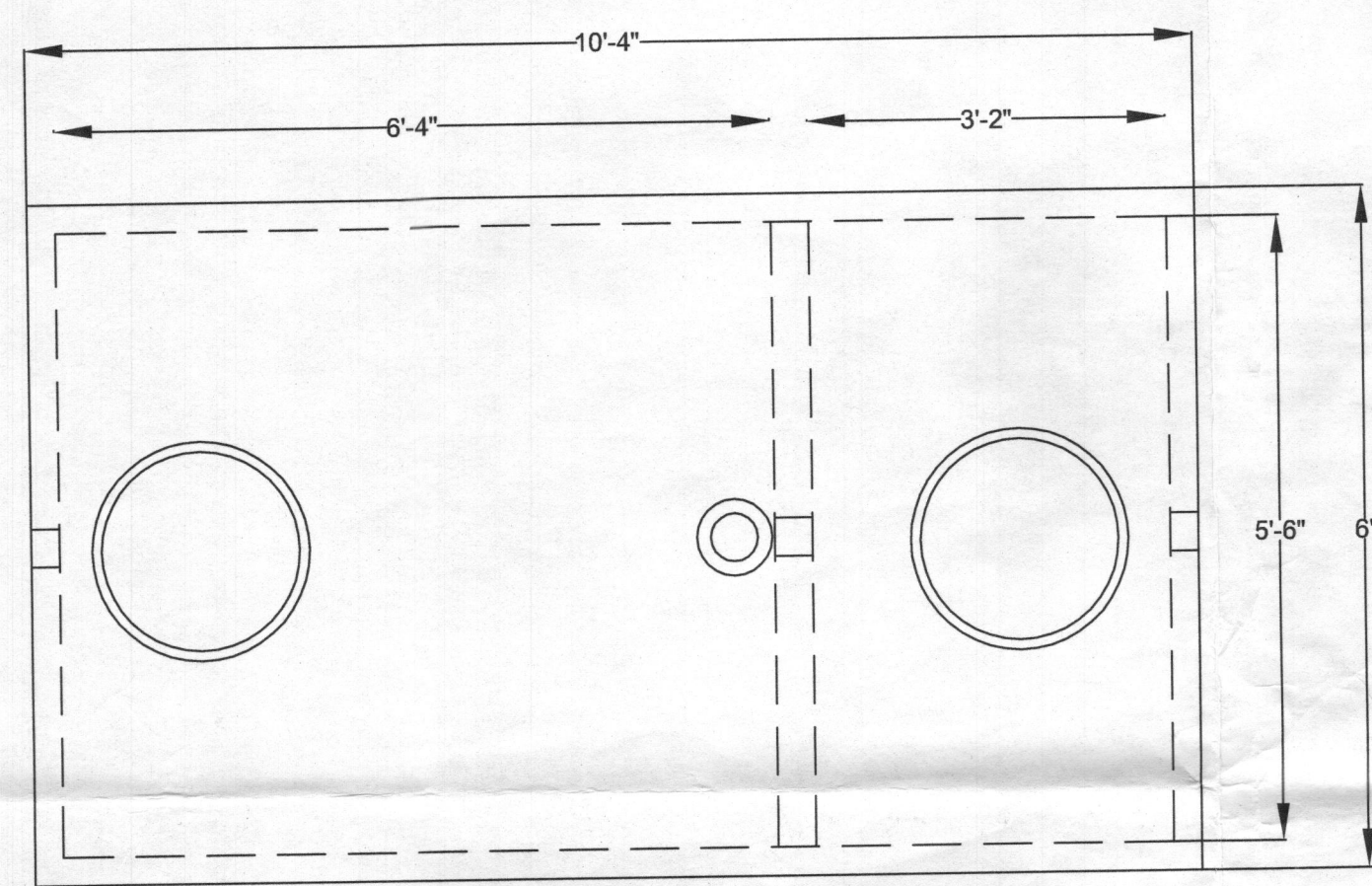
Good afternoon Peter. Please be advised that there is potential for delay in release of the septic system installation permit when it is requested. The issue may be avoided by your submittal of an additional copy of the OSDS plan in a timely manner. We need two copies of the plan: one to reside in the property file, and one to issue to the septic system contractor when the installation permit is released.

You may deliver the additional copy to my attention at the Bureau of Environmental Health counter. There is an approved copy of the plan available for you at the Bureau counter.

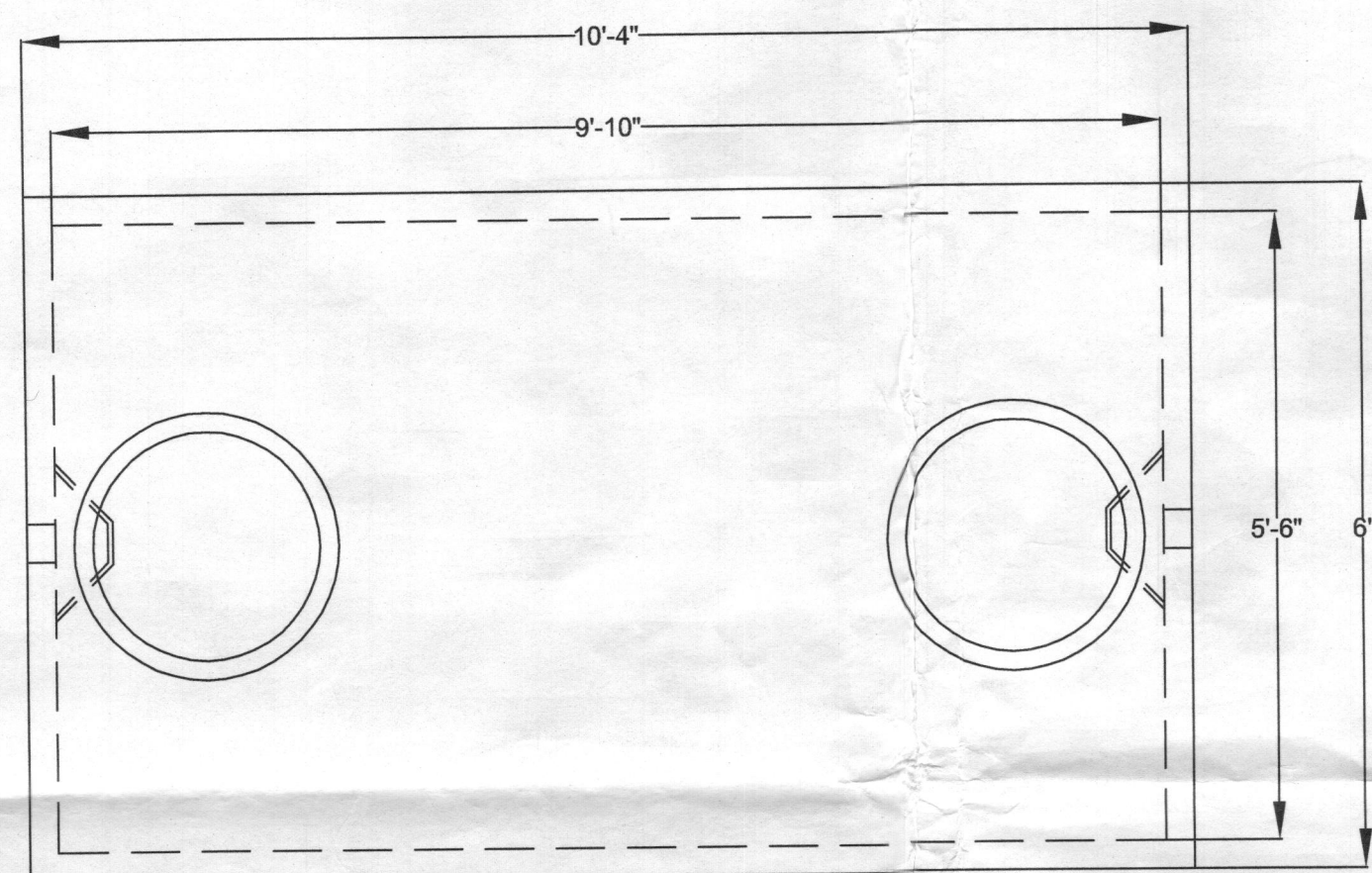
I have approved the building permit (B17002751) on behalf of the Health Department.

ROBERT BRICKER, REHS/R.S., L.E.H.S.
ENVIRONMENTAL SANITARIAN II
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
8930 STANFORD BLVD., COLUMBIA, MD 21045

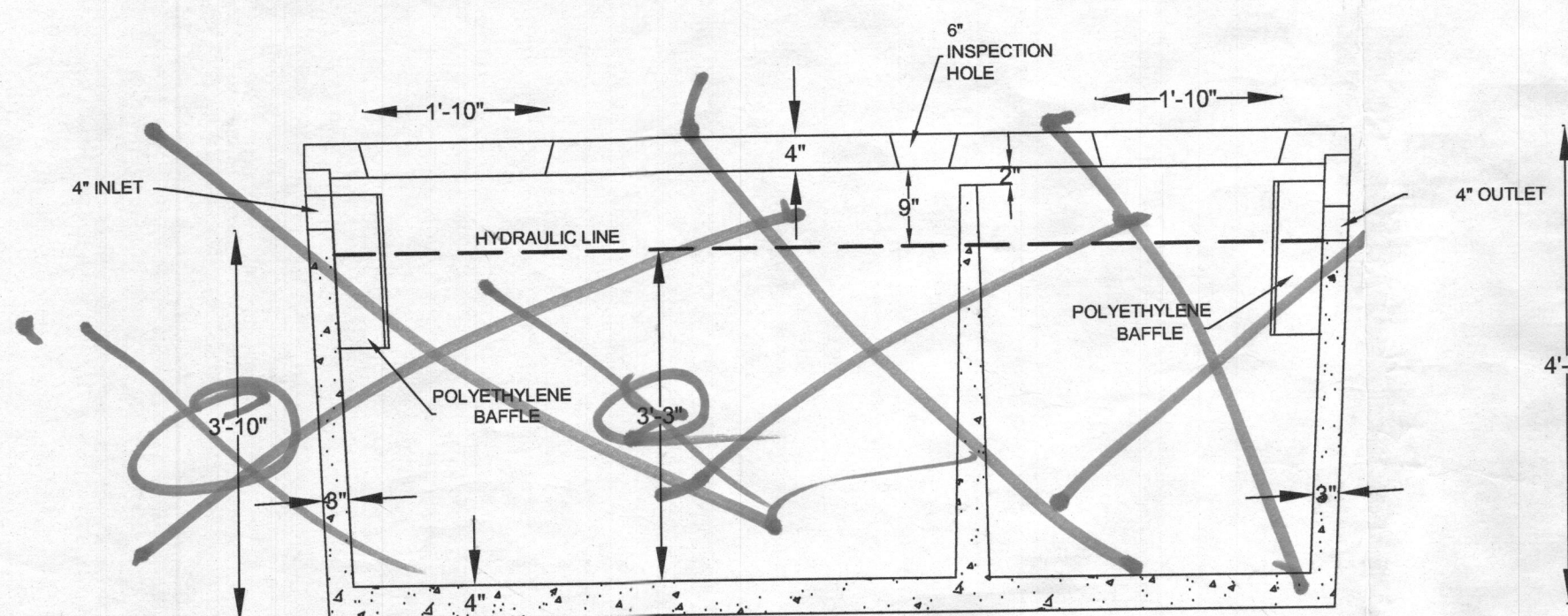
Phone: Desk, 410-313-2691; Program, 410-313-1771; Bureau, 410-313-1774
Fax: 410-313-2648



PLAN VIEW

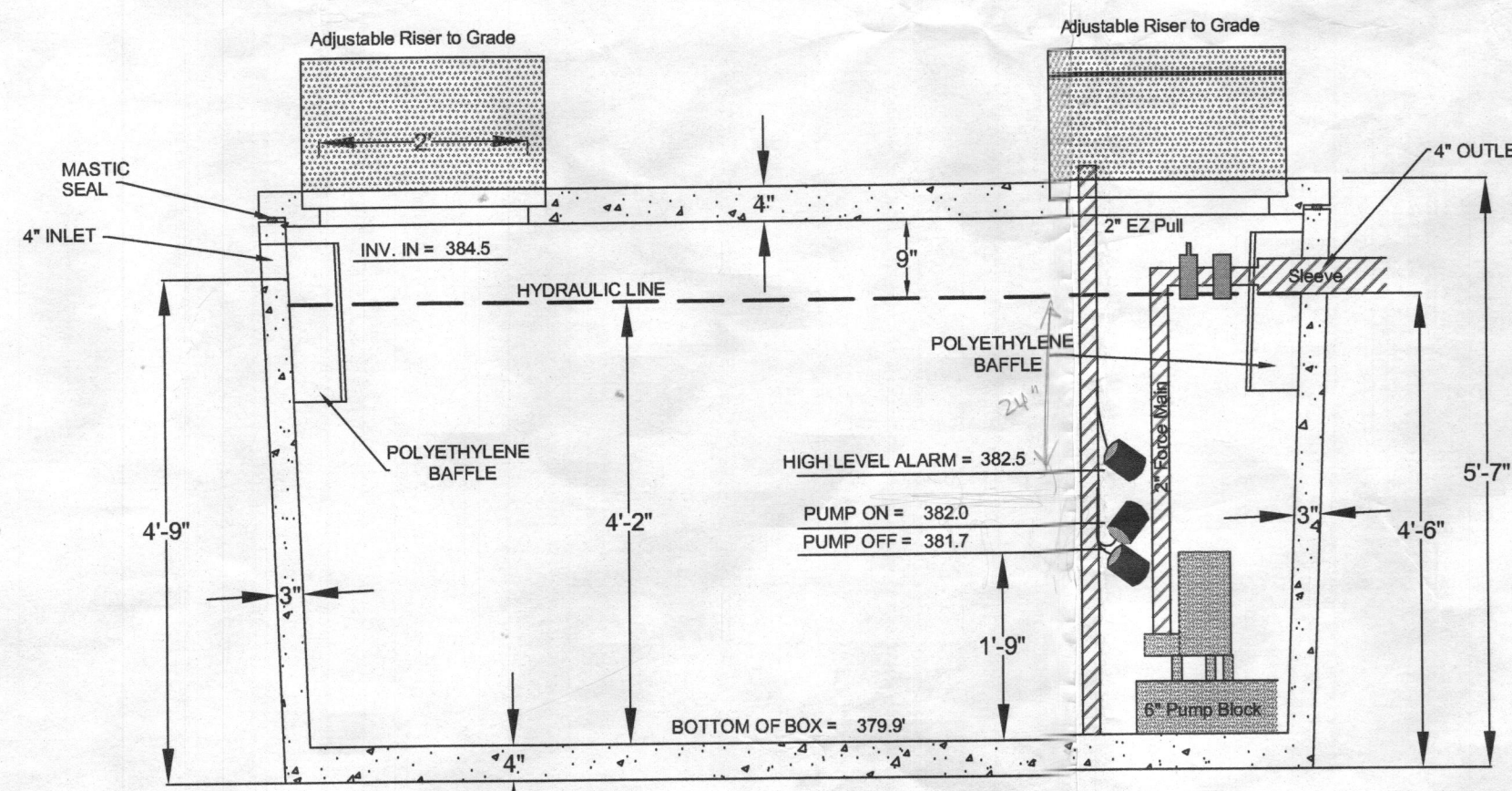


PLAN VIEW



SECTION VIEW
N.T.S.

1,500 GALLON 2-COMPARTMENT SEPTIC TANK
N.T.S.

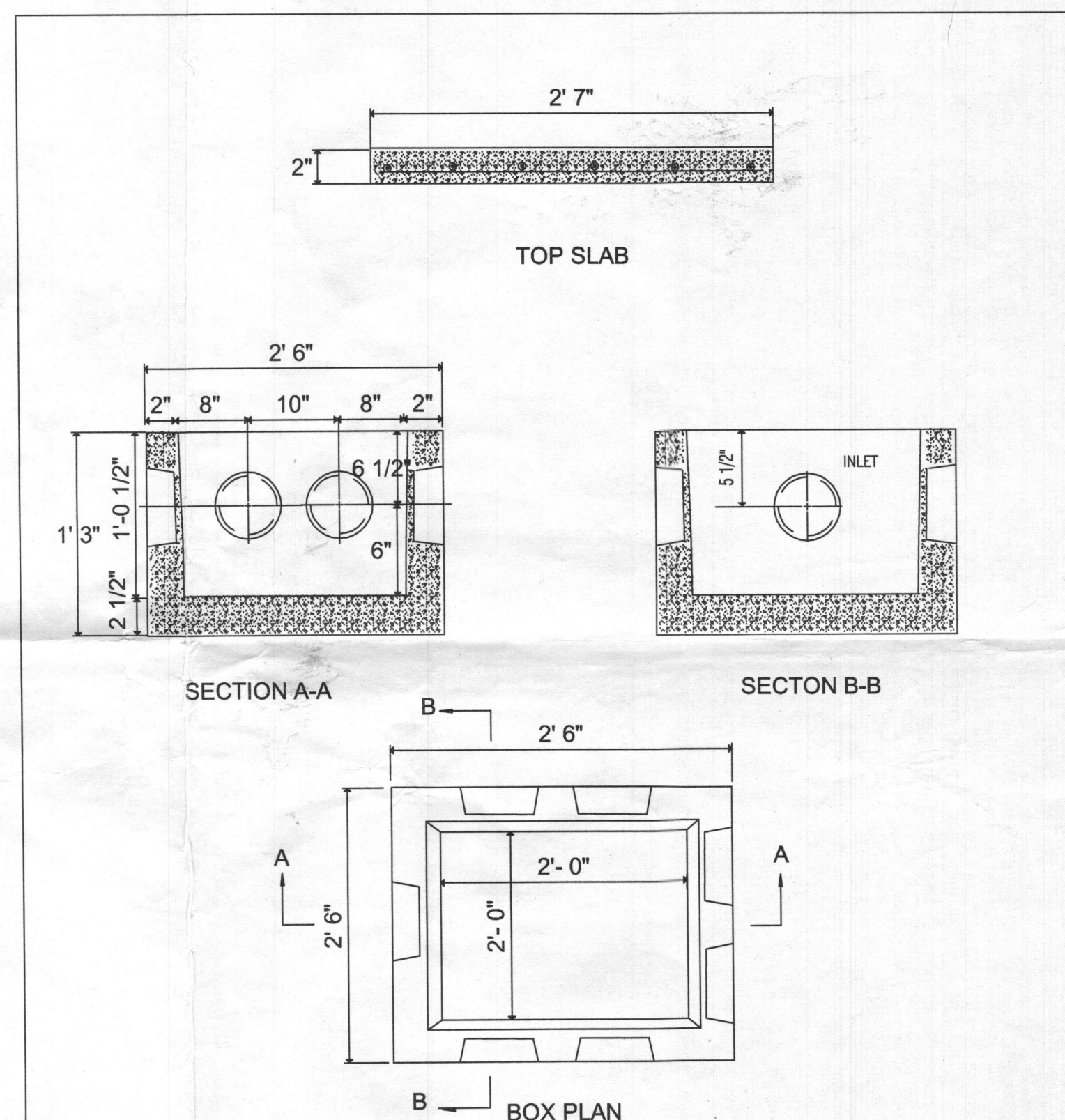


SECTION VIEW
N.T.S.

1,500 GALLON SINGLE COMPARTMENT PUMP TANK
N.T.S.

Dose Volume
 Pump On - Pump Off (382.0 - 381.7) = 0.3'
 0.3' x 9.83' (L) x 5.5' (W) = 16.2 cf
 1 cf = 7.48 gallons
 16.2 x 7.48 = 121.17 gallons

Emergency Storage Calculation
 Inv. In - High Level Alarm (384.5 - 382.5) = 2.0'
 2' x 9.83' (L) x 5.5' (W) = 108.13 cf
 1 cf = 7.48 gallons
 108.13 x 7.48 = 808.81 gallons



DESIGN DATA & GENERAL NOTES
 1) Concrete strength Fc=4,000 p.s.i. @ 28 days. Density = 150 pcf.
 2) Cement - Portland Type III per ASTM C 150-92.
 3) Admixtures, air, & plasticizers per ASTM C 260-86 & C 494-92.

REINFORCING DESIGN:
 Reinforcing per ASTM A185. Min. 1-1/2" cover
 3x8 Welded Wire Mesh through out

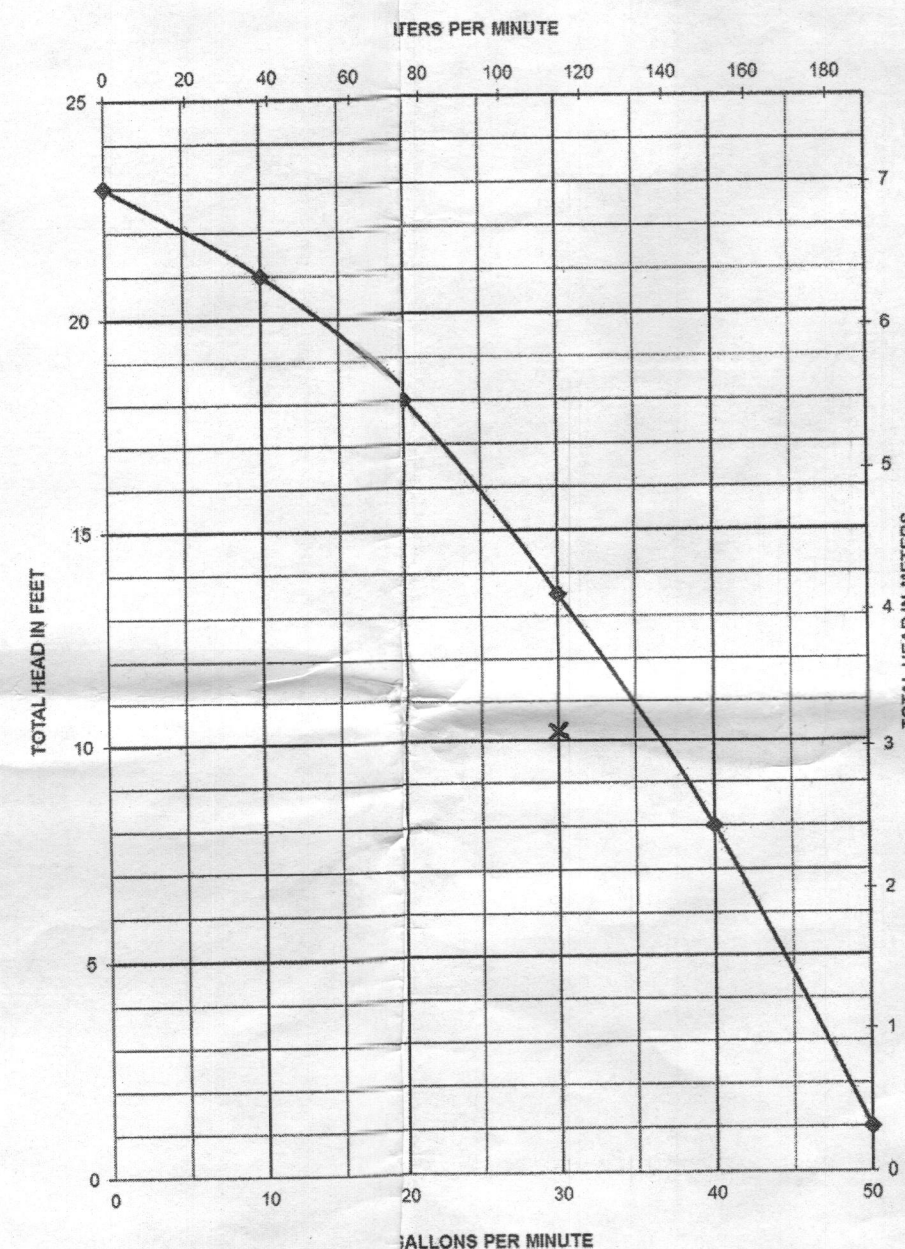
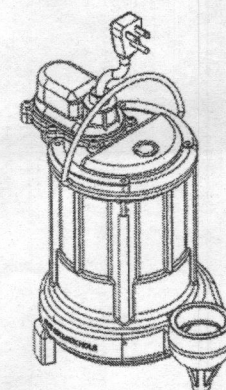
Mayer Bros., Inc.
 6264 Race Road
 Elkridge, Maryland 21075
 Tel. 410.796.1434
 Fax. 410.796.1438
 www.mayerbrosprecast.com

"LARGE" DISTRIBUTION BOX
 Stock Item
 Dwg. No. DBOX-LG No Scale August 2000

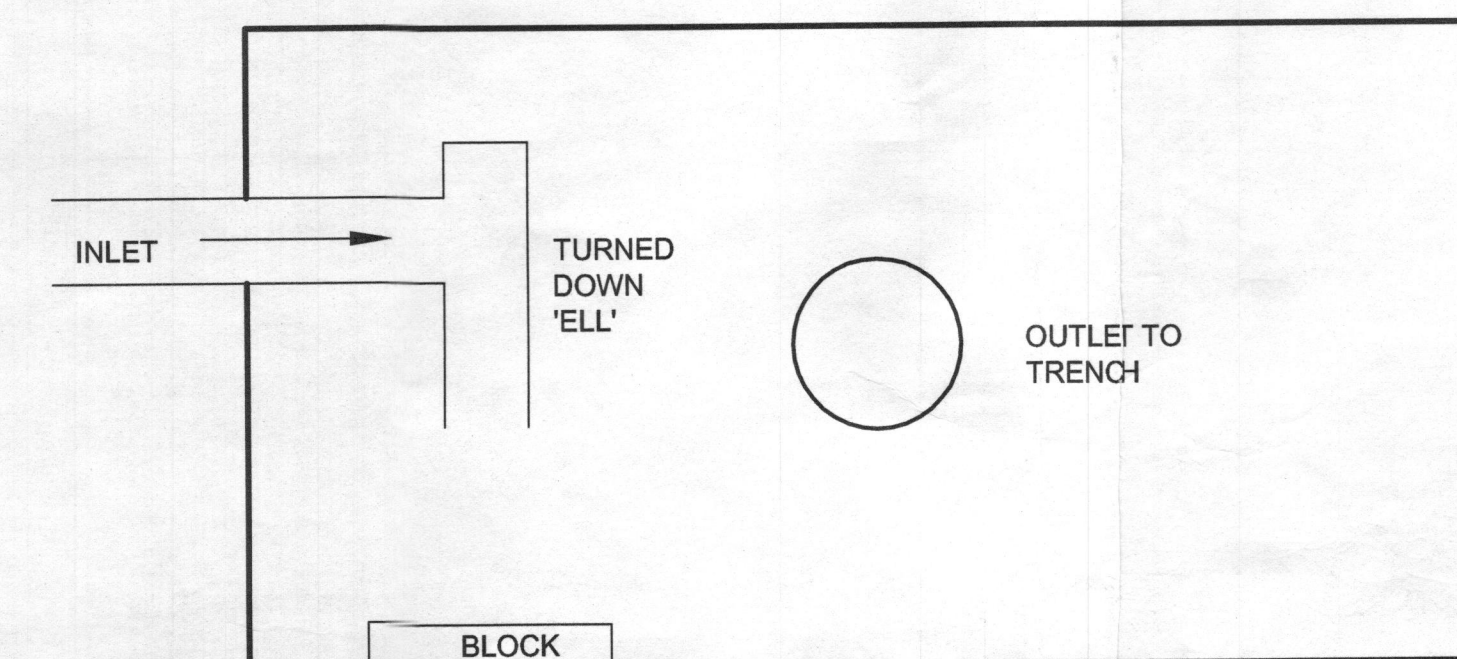
Source: www.mayerbrosprecast.com

LARGE DISTRIBUTION BOX
N.T.S.

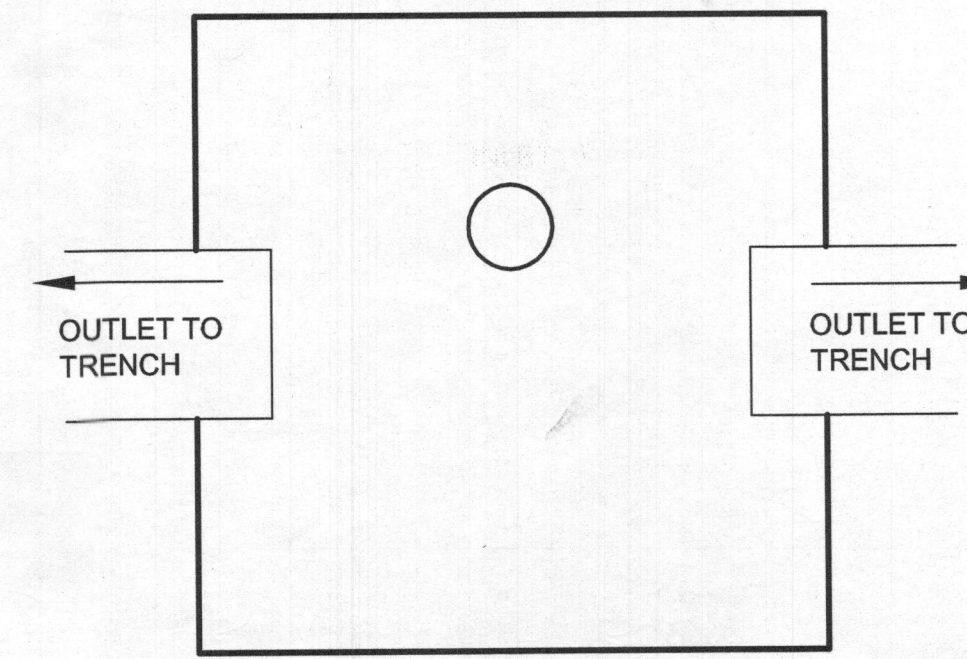
Liberty Pumps
Pump Specifications
250 Series Submersible Sump / Effluent Pump



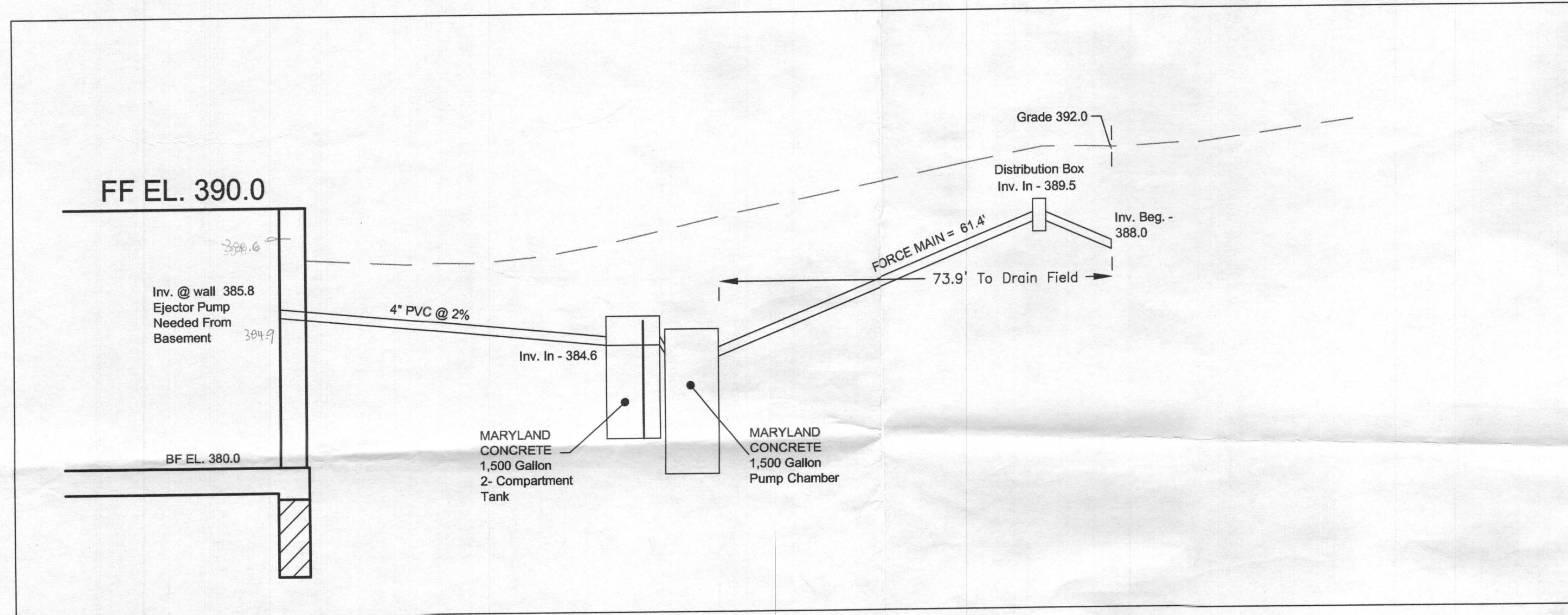
250_P 8/30/2015 ©Copyright 2015 Liberty Pump Inc. All rights reserved. Specifications subject to change without notice. Source: www.libertypumps.com



LARGE DISTRIBUTION BOX - PROFILE
N.T.S.



LARGE DISTRIBUTION BOX - END VIEW
N.T.S.



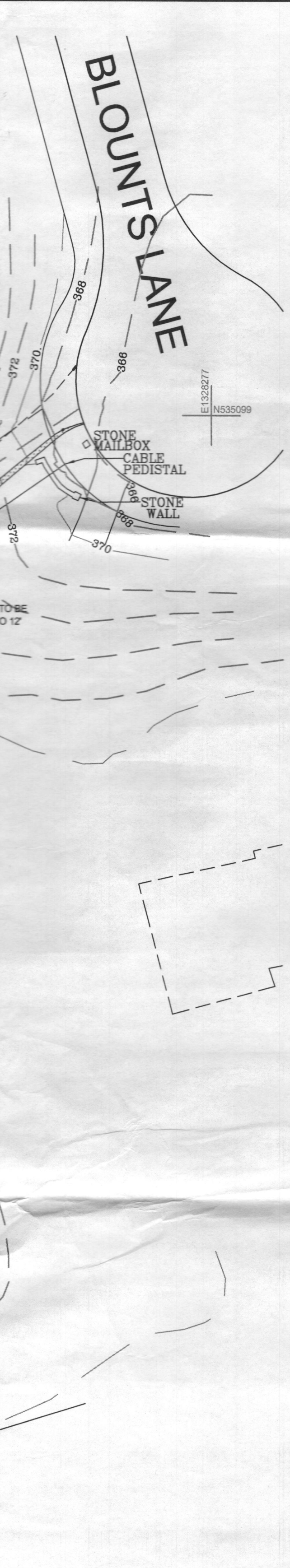
SEPTIC SYSTEM PROFILE
 Vertical 1" = 4'
 Horizontal 1" = 20'

Approved Septic System Plan
 Howard County Health Department
 1500-gal Septic Tank
 # 1500-gal Pump Tank w/ 0.3 hp Liberty Pump or equiv.
 Signature: [Signature] 9/13/2017 Date
 B17002751

ON-SITE SEWAGE DISPOSAL SYSTEM PLAN
 Parcel 53 (1.350 Acres)
 8522 Blounts Lane - Fulton, MD
 Tax ID - 05-372712
 L.11358 F.593
 Tax Map No. 45 Fifth Election District
 Grid 12, Parcel 53
 Howard County, Maryland

DESIGN BY: DWM
 DRAWN BY: PHS
 CHECKED BY: DWM
 DATE: 9-1-17
 SCALE: As Shown
 9-5-17

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 2001
 EXPIRATION DATE 10/21/2018



8522 BLOUNTS LANE SEPTIC CALCULATIONS (5BR)
 Initial System: Application Rate - 1.2' Bottom Max. Depth - 7'5"
 1st Replacement: Application Rate - 0.8' Bottom Max. Depth - 6'
 2nd Replacement: Application Rate - 1.2' Bottom Max. Depth - 8'

INITIAL SYSTEM
 Design Flow = 150 gal. per day / per BR = 750
 Drainfield Required (square feet) = 750 / 1.2 = 625 sf
 Linear Length of Trench Required = 625 x .55' / 3 = 115'

*Sidewall Reduction Credit: (3' trench width)
 $3+2 = .55$
 $3+1+2(2.5)$

1st REPLACEMENT:
 Design Flow = 150 gal. per day / per BR = 750
 Drainfield Required (square feet) = 750 / 0.8 = 937.5 sf
 Linear Length of Trench Required = 937.5 x .625' / 3 = 198'

*Sidewall Reduction Credit: (3' trench width)
 $3+2 = .625$
 $3+1+2(2)$

2nd REPLACEMENT:
 Design Flow = 150 gal. per day / per BR = 750
 Drainfield Required (square feet) = 750 / 1.2 = 625 sf
 Linear Length of Trench Required = 625 x .416' / 3 = 87'

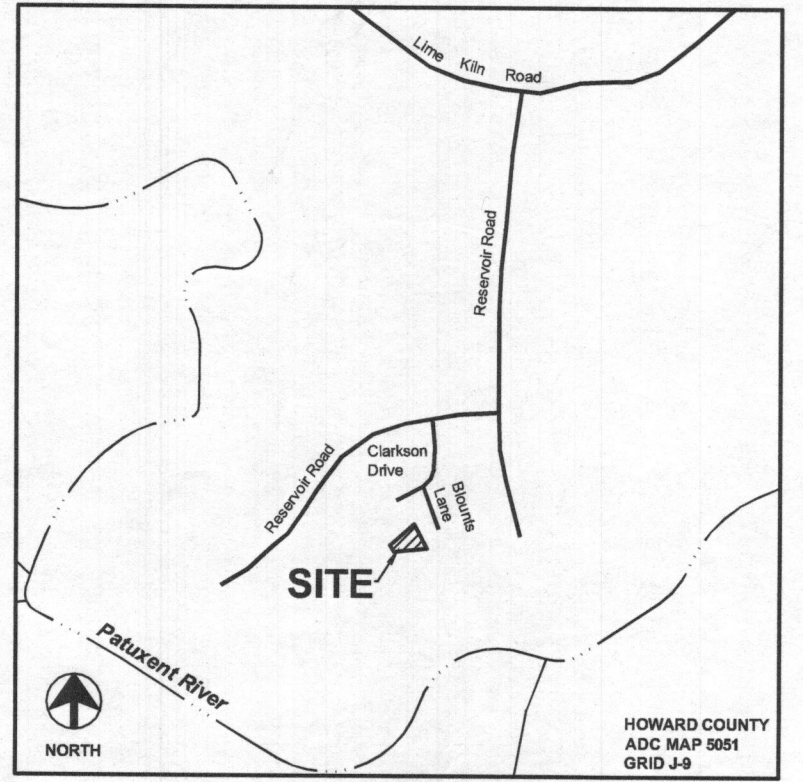
*Sidewall Reduction Credit: (3' trench width)
 $3+2 = .416$
 $3+1+2(4)$

SEWAGE DISPOSAL SYSTEM DESIGN NOTES:

1. Number of Bedrooms - 5
2. Depth of Stone - 4'
3. Passing Test Sites: 2, 4, 5, 8 and 10 from approved Percolation Certification Plan 02/08/07
4. Length of Initial System - 115'
5. Reserve Area - 10,197 sf
6. Distribution Pipe Invert at 4 Feet Depth.
7. Size of Septic Tank - 1,500 gal. 2-compartment tank

NOTES:

1. 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.
2. The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
3. Electrical work for the installation must be performed by a licensed electrician.
4. 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.
5. The existing wells shown on this plan (well Tag HO-95-1000 and HO-95-0329, respectively) have been field located and are accurately shown.
6. Other than the installation of trenches, disturbance within each SDA is limited to the clearing of trees and evening of surface for the purpose of establishing new lawn area. Cut and Fill and re-shaping of contours is not allowed.
7. Both sections of SDA are to be enclosed by a temporary fence (such as orange blaze) once the initial tree clearing has been completed.
8. New water line serving 8522 Blounts Lane must pass under the existing water line serving 8520 Blounts Lane, and must be sleeved at the crossing of the two pipes.



SEWAGE DISPOSAL SYSTEM DESIGN DATA:

	GRADE	TOP OF TANK	INVERT IN	INVERT OUT
SEPTIC TANK	388.2	385.7	384.6	384.3
PUMP TANK	388.2	385.2	384.2	384.1
D-BOX	392.0	390.0	389.5	389.4

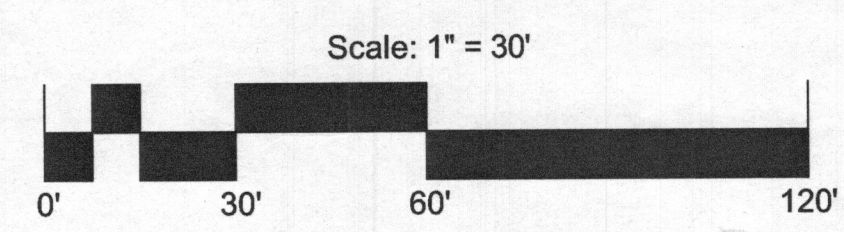
SOIL CHART

SYMBOL	SOIL	SLOPE	K-FACTOR	HYDRIC
GgB	Glenalg Loam	3 - 8%	0.20	No
MaC	Minor Loam	8 - 15%	0.24	No
GmC	Glenely Loam	8 - 15%	0.37	No

FORCE MAIN DESIGN NOTES:

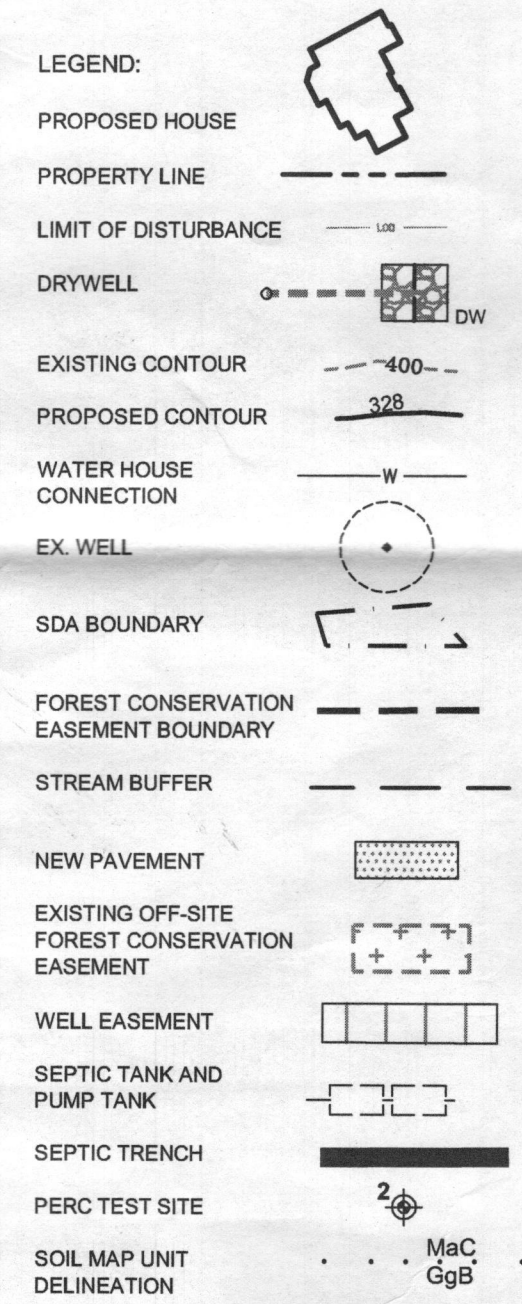
1. Total Length of Force Main - 61.4'
2. Diameter of Force Main - 2"
3. Number of 45° Bends - 3
4. Number of 90° Bends - 0
5. Number of 22° Bends - 0
6. Number of Couplings Required - 2
6. Total Lift - 8.5' (Bottom of Pump 80.4' D-Box Inv. 89.5)
7. Friction Loss Calculations -
 a) Static Head: Inverse Elev. @ D-Box Inlet (389.5) - Pump Elev. (380.4) = 9.1'
 b) Friction Head -
 Force main length: 61.4'
 Couplings: 2 x 2' = 4'
 45° Elt: 3 x 4' = 12'
 90° Elt: 0 x 7' = 0'
 22° Elt: 0 x 2' = 0'
 Total = 77.4'
 77.4 ft. 2" PVC x 1.54 per 100 ft. = 1.2'
 c) Total Head = 10.3'
 d) 10.3'(Head) @ 30 G.P.M. = Liberty Pumps 250-Series Submersible Effluent Pump

NOTE:
 AT TIME OF THE PRE-CONSTRUCTION MEETING FOR INSTALLATION OF THE SEPTIC SYSTEM, THE ATTENDING ENVIRONMENTAL SANITARIAN MAY REQUIRE THAT AN OBSERVATION PROFILE TO BE DIG SLIGHTLY UPHILL OF THE INITIAL SYSTEM TRENCH LOCATIONS FOR THE PURPOSE OF OBSERVING THAT THERE IS ADEQUATE SOIL DEPTH.



SOURCE OF TWO-FOOT CONTOUR INTERVAL TOPOGRAPHY ON-SITE:
 GOODE SURVEYS, LLC,
 PO BOX 599
 DAMASCUS, MD 20872
 301-368-3700

SOURCE OF TWO-FOOT CONTOUR INTERVAL TOPOGRAPHY OFF-SITE:
 HOWARD COUNTY GIS



OWNER/APPLICANT:
 WILLIAM E. JR. & DANA WALKER T/E
 8207 NORTHLAKE COURT
 LAUREL, MD 20707
 301-928-3831

BUILDER:
 CLASSIC HOMES OF MARYLAND, INC.
 50 W. EDMONSTON DRIVE, SUITE 402
 ROCKVILLE, MD 20852
 301-251-2001



Approved Septic System Plan
 Howard County Health Department
 1500 gal septic tank
 # 1500 gal Pump tank w/0.3hp Liberty pump or equiv.
 Signature 9/13/2017
 J17002751

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
Parcel 53	8522 Blounts Lane

PERMIT INFORMATION CHART					
Subdivision Name	Section/Block	Lot/Parcel No.	Lot/Parcel No.	Section/Block	Parcel 53
1.350 Acres 8522 Blounts Lane Fullton					
Plan of L.P. L.11358 F.593	Sheet 12	Contig RR-DEC	Section 05	Corner 150'	6051.02
Issue Date		Issue Date		Issue Date	

REVISIONS	

ON-SITE SEWAGE DISPOSAL SYSTEM PLAN
 Parcel 53 (1.350 Acres)
 8522 Blounts Lane - Fulton, MD
 Tax ID - 05-37272
 L.11358 F.593
 Tax Map No. 45 Fifth Election District
 Grid 12, Parcel 53
 Howard County, Maryland

DESIGN BY: DWM
 DRAWN BY: PHS
 CHECKED BY: DWM

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 DATE: 9-1-17
 SCALE: 1" = 30'
 EXPIRATION DATE: 10/21/2018

1 SHEET OF 2