

## 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

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

### MEMORANDUM

TO: Fisher, Collins & Carter, Inc.  
10272 Baltimore National Pike  
Ellicott City, MD 21042

FROM: Robert Freemon *RF*  
Well & Septic Program

RE: Balakirsky Property, Lot 2  
11811 Chapel Estates Drive  
Clarksville, MD 21029  
*(BAT/LPD Comments)*

DATE: 3/27/18

After review of the BAT/LPD plan here are my comments.

- ✓ There is a well box shown on the approved Perc Cert (4/5/13) that is not being shown on the BAT plan.
- ✓ The BAT Unit and pump tank must stay 25' from the retaining wall and 100' from any streams.
- ✗ *Stream SWM* Symbols used to represent different structures on the property should be clearly labeled in the legend. There are several symbols marked on the site plan that are not identified in the legend. Symbols that are not being used on the site plan should be removed from the legend.
- ✓ All septic tanks and pump tanks, including BAT units and heavy load bearing, shall have 3' of cover or less.
- ✗ The septic line from the house to the tank must be sleeved under the driveway and ~~retaining wall~~.
- The pumped sewer line diameter is inconsistently labeled between the site plan and calculations.

## **Freemon, Robert**

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**To:** Stephanie Tuite  
**Subject:** RE: 11811 Chapel Estates

Stephanie,

I understand we have allowed more than 3ft of cover over traffic bearing tanks prior to this point however we have been running into issues with this. Placing tanks deeper than 3ft below grade makes it increasing difficult for repair or maintenance work to be done. If there are no other options available we may consider installing a traffic bearing tank/s deeper than 3ft. As for the retaining wall, based on the site plan the wall looks to be about 4ft above grade and 5ft or less to the tanks. This is considered a steep slope greater than 25% which has a 25ft setback in COMOR Sec 26.04.02.04 (J). This is not listed on the *Well and Septic Program Setbacks* because it is not a common issue however it does come up time to time.

**Robert "Spencer" Freemon**  
**Howard County Health Department**  
**8930 Stanford Blvd. Columbia, MD 21045**  
**Bureau of Environmental Health**  
**Well and Septic Program**  
**Phone: 410-313-6357**  
**Email: [rfreemon@howardcountymd.gov](mailto:rfreemon@howardcountymd.gov)**  
**Website: <https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic>**

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**From:** Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]  
**Sent:** Wednesday, March 28, 2018 8:49 AM  
**To:** Freemon, Robert  
**Subject:** RE: 11811 Chapel Estates

Have a couple questions. You stated:

"all septic tanks and pump tanks, including BAT units and heavy load bearing, shall have 3' of cover or less."

The point of the heavy load bearing is to have up to 5' of cover, so not sure what you mean.

Where is the 25' from retaining wall coming from? Never heard this before and not in the list of setbacks. This only a short wall. Even a house can be 20 feet from the tank, not that I have that much either.

Steph

Stephanie Tuite, RLA, PE, LEED AP BD&C  
**FISHER, COLLINS & CARTER, INC.**

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**From:** Freemon, Robert <[rfreemon@howardcountymd.gov](mailto:rfreemon@howardcountymd.gov)>  
**Sent:** Tuesday, March 27, 2018 4:31 PM  
**To:** Stephanie Tuite <[Stephanie@fcc-eng.com](mailto:Stephanie@fcc-eng.com)>  
**Subject:** 11811 Chapel Estates

Hi Stephanie,  
Attached are my comments for the Balakirsky Property. If you have any questions let me know.

**Robert "Spencer" Freemon**

# Transmittal

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

To: <b>Bureau of Environmental Health</b> <b>8930 Stansfield Boulevard</b> <b>Columbia, MD 21046</b>	Attn: <b>Robert Freemon</b> Fax: <b>(410) 313-2648</b> Phone: <b>(410) 313-2640</b>
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From: <b>Stephanie Tuite</b>	CC:
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Re: <b>11811 Chapel Estates Dr- Permit B18000473</b>	W.O.# <b>12060-6007</b>
Date: <b>March 12, 2018</b>	Pages: <b>Page(s) Including this cover</b>

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other
<input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input type="checkbox"/> For Review & Comment

Remarks:

Enclosed please find Three (3) prints of the BAT Site Plan (11811 Chapel Estates Dr - Balakirsky Property, Lot 2) - Building Permit # B18000473. As in previous cases, no specific detail for a traffic bearing Singulair BAT tank exists, so a note has been added to the tank since depth of cover exceeds 3 ft.

If we may be of any further assistance or you need any changes, please do not hesitate to call.

Very truly yours,

Stephanie Tuite, RLA, PE, LEED AP BD&C

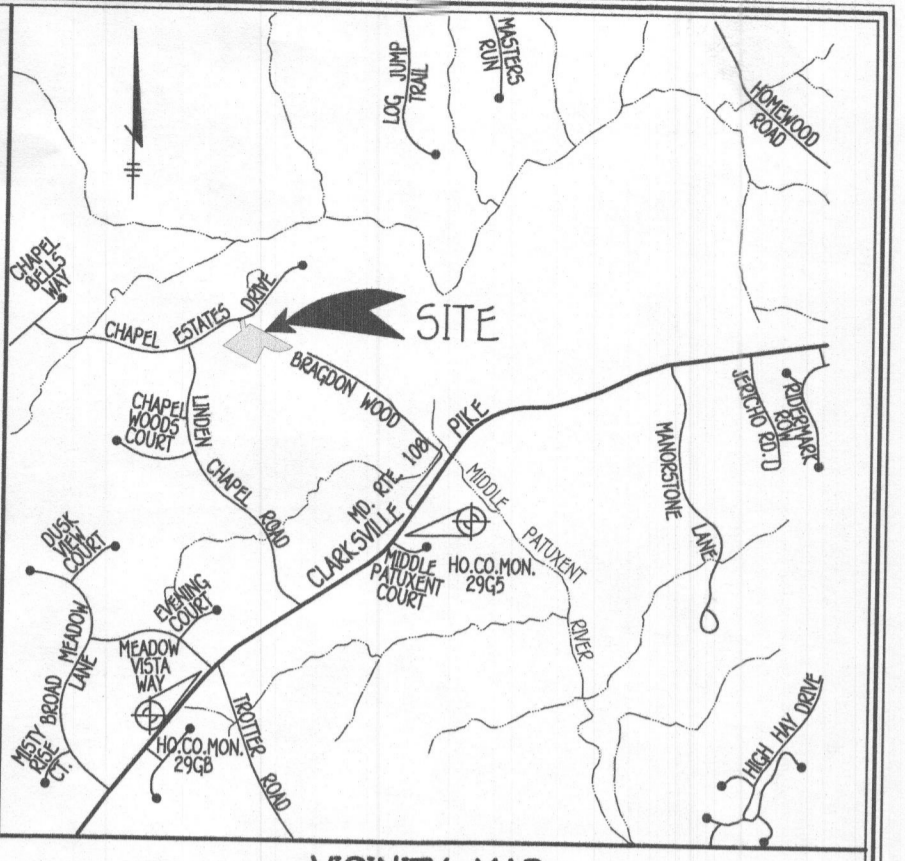
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SOILS LEGEND		
SOIL	NAME	CLASS
GbC	Gladstone loam, 8 to 15 percent slopes	B
GnB	Glenville-Baile silt loams, 0 to 8 percent slopes	C
MaD	Major loam, 15 to 25 percent slopes	B

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
X	EXISTING FENCE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	STEEP SLOPES 15%-24.9%
---	STEEP SLOPES 25% OR GREATER
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
x 329.14	SPOT ELEVATION
---	PROPOSED PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	BUILDING RESTRICTION LINE
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	SILT FENCE
---	PERMANENT SOIL STABILIZATION MATTING
---	EARTH DIKE
---	TEMPORARY CHECK DAM



- GENERAL NOTES**
- SUBJECT PROPERTY ZONED: RC-DEO
  - TOTAL AREA OF PROPERTY: 3.20 AC.
  - LIMIT OF DISTURBANCE: 64,227 SQ.FT. OR 1.47 ACRES.
  - CONTRACTOR/BUILDER TO VERIFY ELEVATION IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
  - BOUNDARY OF LOT BASED ON PLAT #23207.
  - TOPOGRAPHY SHOWN HEREON BASED ON FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED BY FISHER, COLLINS & CARTER, INC. IN JULY, 2017. TOPOGRAPHY IS SUPPLEMENTED BY HOWARD COUNTY 200 SCALE TOPOGRAPHY.
  - WETLANDS EXIST ON THIS LOT AND HAVE BEEN SHOWN BASED ON F-14-119.
  - PLAN SUBJECT TO VARIANCE APPROVED ON APRIL 2, 2013 TO ALLOW SEWAGE DISPOSAL SYSTEMS SERVING LOTS 1 & 2 TO BE LOCATED UPGRADIENT FROM THE PRIVATE WATER SUPPLY ON NEIGHBORING PARCELS OFF OF CHAPEL WOODS DRIVE.

**BAT 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 COVER OVER THE BAT SHALL BE 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ANY ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE WELL (TAG # HO-14-0047) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWNGRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE HOWARD DEPARTMENT OF THE ENVIRONMENT AND THE TYPE OF BAT INSTALLED.
- AN AGREEMENT AND EASEMENT HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, LIBER FOLD
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
- SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.

**SEPTIC SYSTEM ELEVATIONS**

- FFE = 373.13
- BSE = 362.00
- INV. OUT OF HOUSE = 359.00
- PROP GROUND AT CLEANOUT = 368.3
- INVERT INTO CLEANOUT = 358.06
- INVERT INTO CLEANOUT = 357.96
- PROP GROUND AT CLEANOUT = 363.0
- INVERT INTO CLEANOUT = 357.66
- INVERT OUT OF CLEANOUT = 357.56
- PROP GROUND AT BAT TANK = 363.0
- TOP OF BAT TANK = 358.46
- COVER OVER BAT TANK = 4.94 FT
- INVERT INTO BAT TANK = 357.46
- INVERT OUT OF BAT TANK = 357.13
- PROP GROUND AT PUMP TANK = 363.0
- COVER OVER PUMP TANK = 4.78 FT
- INVERT INTO PUMP TANK = 357.05
- INVERT OUT OF PUMP TANK = 360.50

**SEPTIC SYSTEM DESIGN**

- 5 BEDROOM HOUSE
- LOADING RATE = 750 GPD
- APPLICATION RATE = 1.2
- EFFECTIVE SIDEWALL BEGINS AT 3.0 FEET
- TRENCH DEPTH = 6 FEET
- TRENCH WIDTH (W) = 3 FEET
- EFFECTIVE DEPTH (D) = 3 FEET
- 5F OF DRAINFIELD = 750 GPD / 1.2 = 625 5F
- COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+2(3)) = 0.5$
- TRENCH LENGTH = 625 5F x 0.5 / 3 = 104.17 FEET (USE 104 FEET)
- TRENCH SPACING = 20+W = (2x3) + 3 = 9 USE 10'

TRENCH DESIGN											
TRENCH	GROUND ELEV.	TOP OF STONE ELEV.	PIPE INVERT ELEV.	DEPTH TO STONE FROM GROUND	DEPTH OF STONE (FT)	BOTTOM OF STONE (FT)	EFFECTIVE DEPTH AT STARTS AT	EFFECTIVE DEPTH (D)	TRENCH DEPTH	WIDTH OF TRENCHES (W)	TRENCH SPACING
1A	415.8	413.3	412.8	2.5 FT	3.5 FT	409.8	3 FT	3 FT	6 FT	3 FT	10 FT
1B	413.8	411.3	410.8	2.5 FT	3.5 FT	407.8	3 FT	3 FT	6 FT	3 FT	10 FT
1C	413.8	411.3	410.8	2.5 FT	3.5 FT	407.8	3 FT	3 FT	6 FT	3 FT	10 FT

LOW PRESSURE DOSING SYSTEM - INITIAL INSTALLATION										
TRENCH	GROUND ELEV.	PIPE INVERT ELEV.	TRENCH LENGTH (FT)	LATERAL PIPE PERFORATION (IN)	PERFORATION PERFORATION (IN)	HEAD (FT)	PERFORATION FLOW RATE (GPM)	PERFORATION SPACING (FT)	NUMBER OF ORIFICES	TRENCH FLOW RATE (GPM)
1A	415.8	412.8	34.7	32.22	5/16	2	1.63	4.96	7	11.41
1B	413.8	410.8	34.7	31.23	5/16	4	2.30	6.94	5	11.50
1C	413.8	410.8	34.7	31.23	5/16	4	2.30	6.94	5	11.50
TOTAL TRENCH FLOW RATE										34.41

- FRICION LOSS IN 3" PIPE FITTINGS:**
- 1/8 NB = 4 FEET PER FITTING = 20 EQUIVALENT FEET OF PIPE
  - TEE/CROSS x 11 FEET PER FITTING = 11 EQUIVALENT FEET OF PIPE
  - UNION x 2 FEET PER FITTING = 2 EQUIVALENT FEET OF PIPE
  - ELBOWS x 9 FEET PER FITTING = 9 EQUIVALENT FEET OF PIPE
  - TOTAL EQUIVALENT FEET OF PIPE = 42 FT

- TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 516.5 LF + 42 LF = 559 LF**
- DYNAMIC HEAD**
- 559 LF x 1.74 FT PER 100 LF OF PIPE = 9.73 FT OF FRICTION HEAD
  - DISTAL HEAD = 2.00 FT
  - VERTICAL FROM PUMP OFF TO DISCHARGE = 7.34 FT OF STATIC HEAD
  - VERTICAL FROM DISCHARGE TO HIGHEST ELEV OF MAIN = 55.30 FT
  - TOTAL DYNAMIC HEAD = 74.4 FT

- PIPE VOLUMES**
- 517 LF (2" SCH. 40 PIPE) x 17.4 GALLONS PER 100 LF = 90.0 GALLONS
  - 94.7 LF (1.5" SCH. 40 PIPE) x 10.6 GALLONS PER 100 LF = 10.0 GALLONS
- MINIMUM DOSE**
- MINIMUM DOSE = (5 x LATERAL PIPE VOLUME) + (FORCE MAIN & MANIFOLD)
  - = (5 x 10.0) + (90)
  - = 140 GALLONS

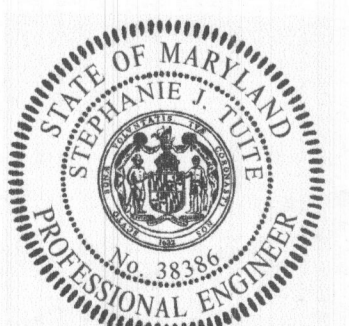
- 140 GALLONS IS MORE THAN 1/6 DESIGN FLOW (750/6=125)
- USE 172 GALLON DOSE (140 GALLON MINIMUM)
- (RUN TIME = 5 MIN (34.4 GPM x 5 = 172 GALLON DOSE))
- PUMP NEEDS TO HANDLE 34.4 GPM AT 74.4 FT OF HEAD
- USE 1.5 HP (ME150 PUMP)

**BAT SITE PLAN**  
**11811 CHAPEL ESTATES DRIVE**  
 BALAKIRSKY PROPERTY, LOT 2  
 PLAT #23207  
 ZONING: RC-DEO  
 TAX MAP NO. 29 GRID NO. 14 PARCEL NO. 42  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: MARCH, 2018  
 SHEET 1 OF 3

**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. 38386, EXPIRATION DATE: 01/12/2020.

*[Signature]* DATE: 3/12/18  
 Signature Of Professional Engineer DATE



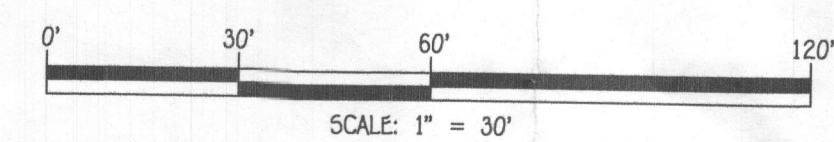
**OWNER**

NISHA PATEL  
 C/O GREENFIELD FAMILY HOMES  
 6420 AUTUMN SKY WAY  
 COLUMBIA, MD 21044  
 (410) 324-4732

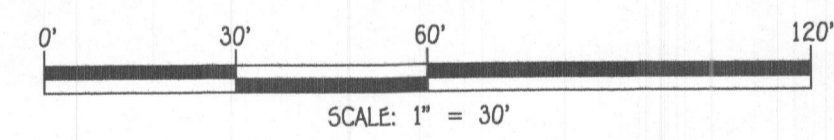
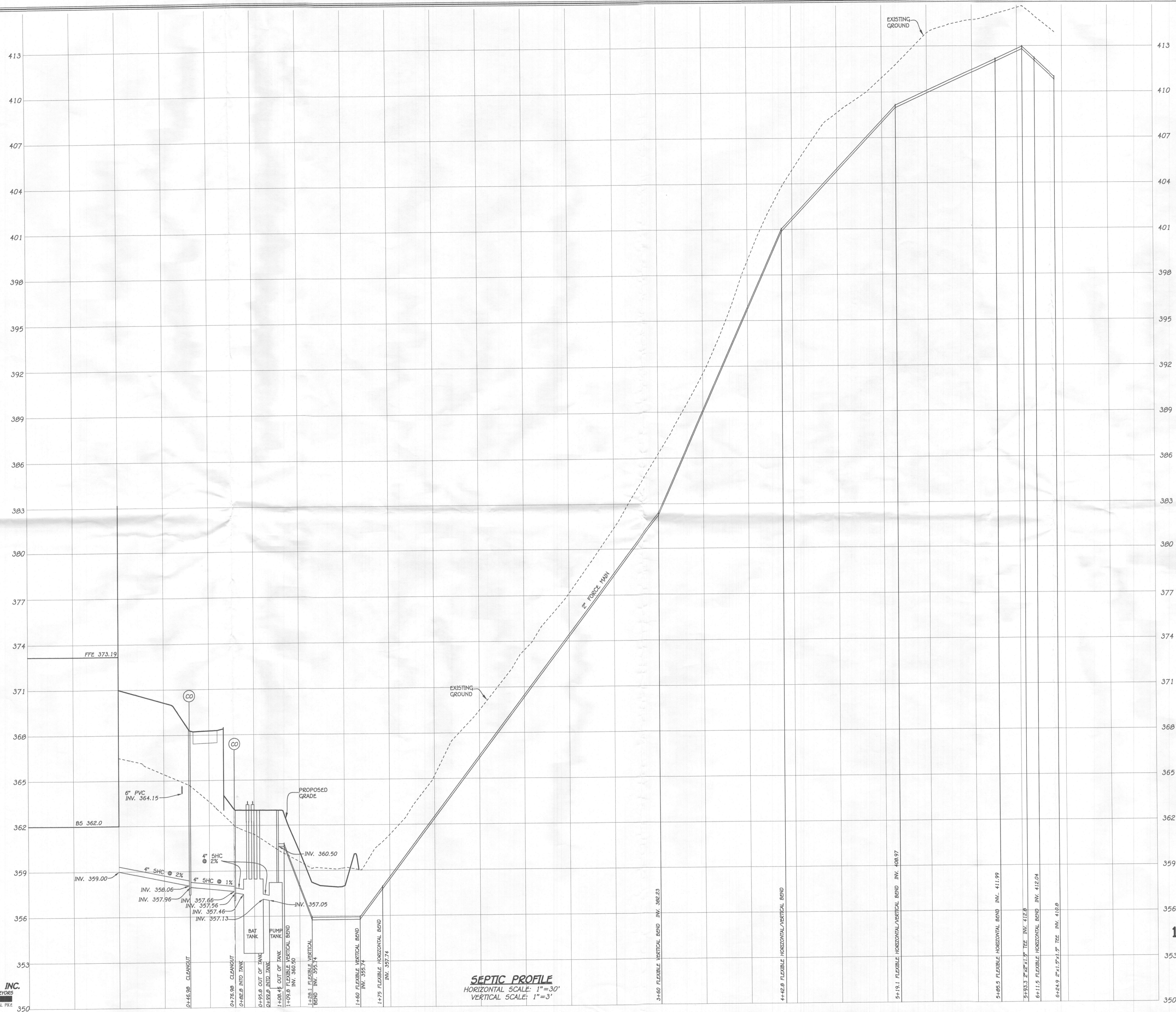
NO.	REVISION	DATE	HOWARD SOIL CONSERVATION DISTRICT	DATE

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED:

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2855



E:\2017\112060\112060-0007 BAT Plan.dwg, BAT Plan, 1/1

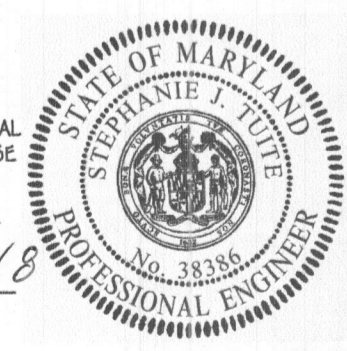


**SEPTIC PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=3'

**OWNER**  
 NISHA PATEL  
 C/O GREENFIELD FAMILY HOMES  
 6420 AUTUMN SKY WAY  
 COLUMBIA, MD 21044  
 (410) 324-4732

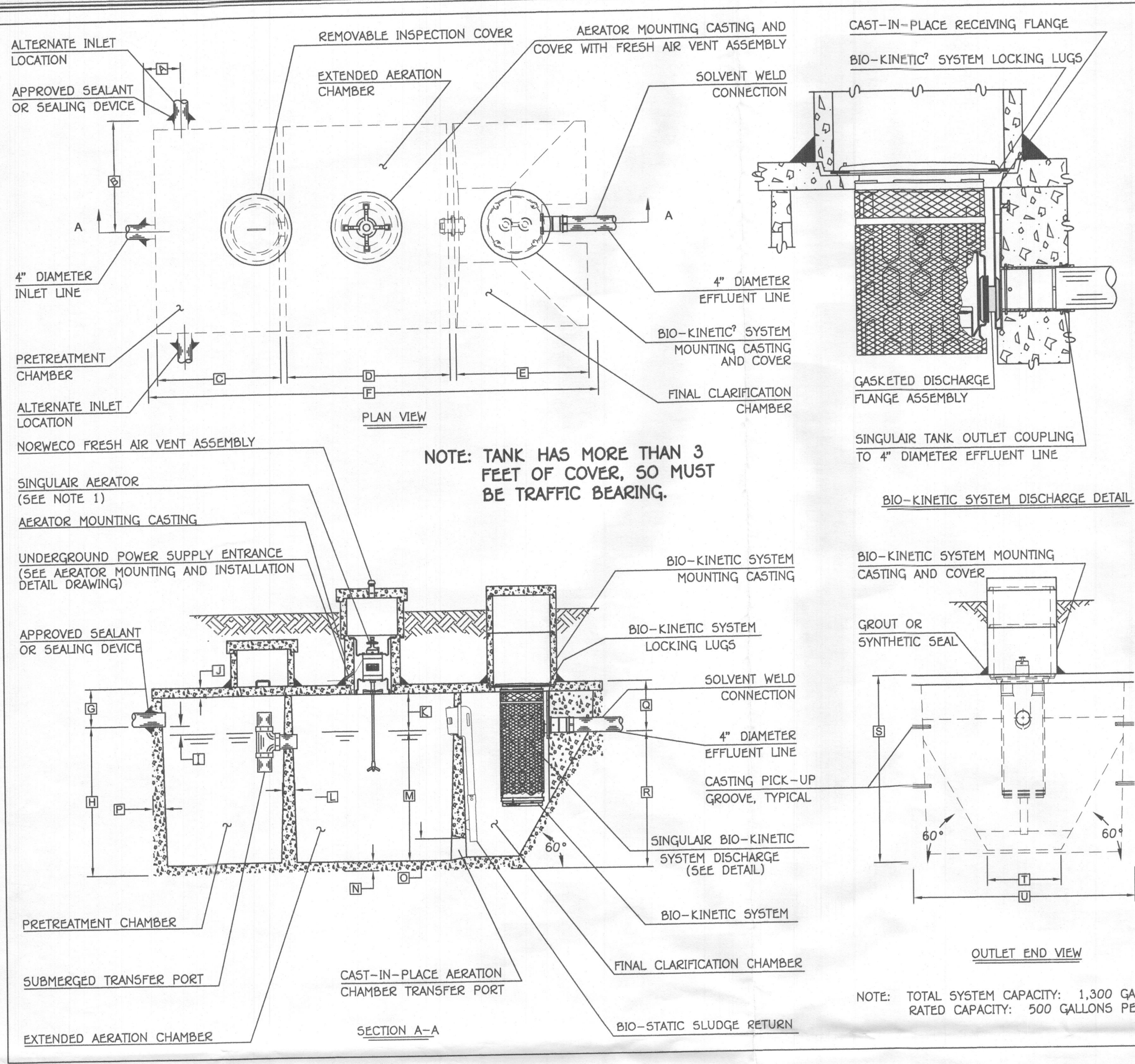
**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2895

**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. 36386, EXPIRATION DATE: 01/12/2022.  
*Stephanie J. Jute* 3/12/18  
 Signature Of Professional Engineer DATE



**BAT PROFILE**  
**11811 CHAPEL ESTATES DRIVE**  
 BALAKIRSKY PROPERTY, LOT 2  
 PLAT #23207  
 ZONING: RC-DEO  
 TAX MAP No. 29 GRID No. 14 PARCEL No. 42  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: MARCH, 2018  
 SHEET 2 OF 3

1:2018112060.dwg | 1060-6007 BAT Plan.dwg, Profile, 1:1



**GENERAL NOTES:**

- SINGULAR AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
- FALL THROUGH SINGULAR PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC SYSTEM MOUNTING CASTING TO GRADE.
- TANK REINFORCED PER ACI STD. 318-05.
- REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL, LICENSED SINGULAR DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

**PROJECT ENGINEER'S APPROVAL:**  
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: \_\_\_\_\_  
NAME: \_\_\_\_\_

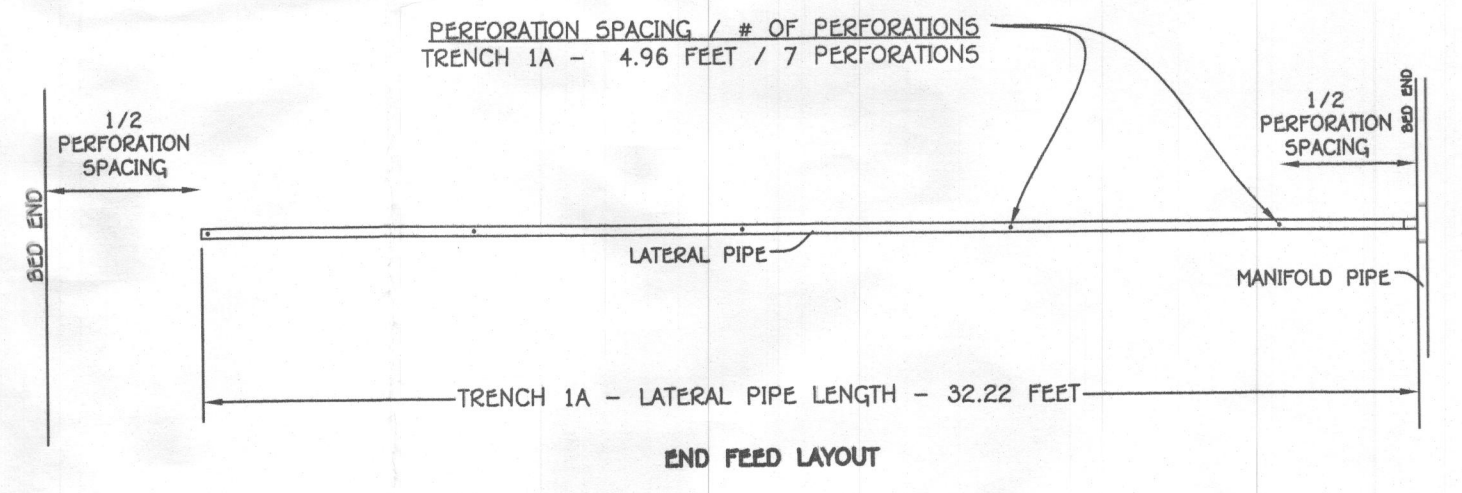
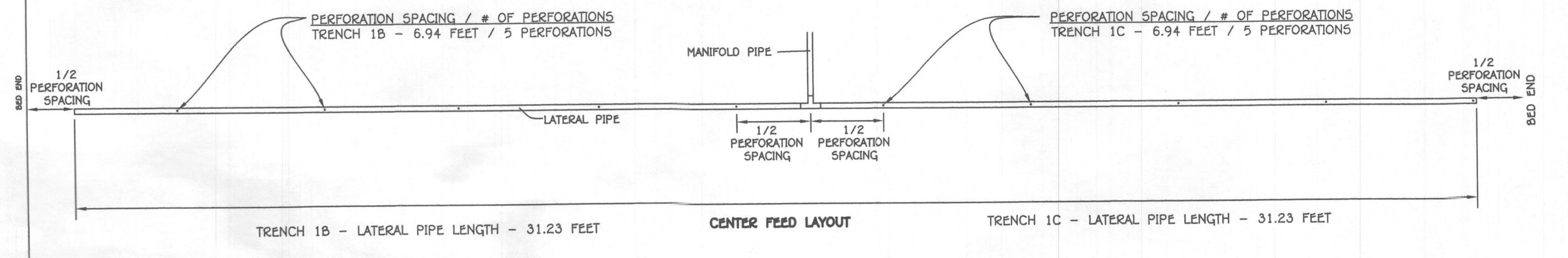
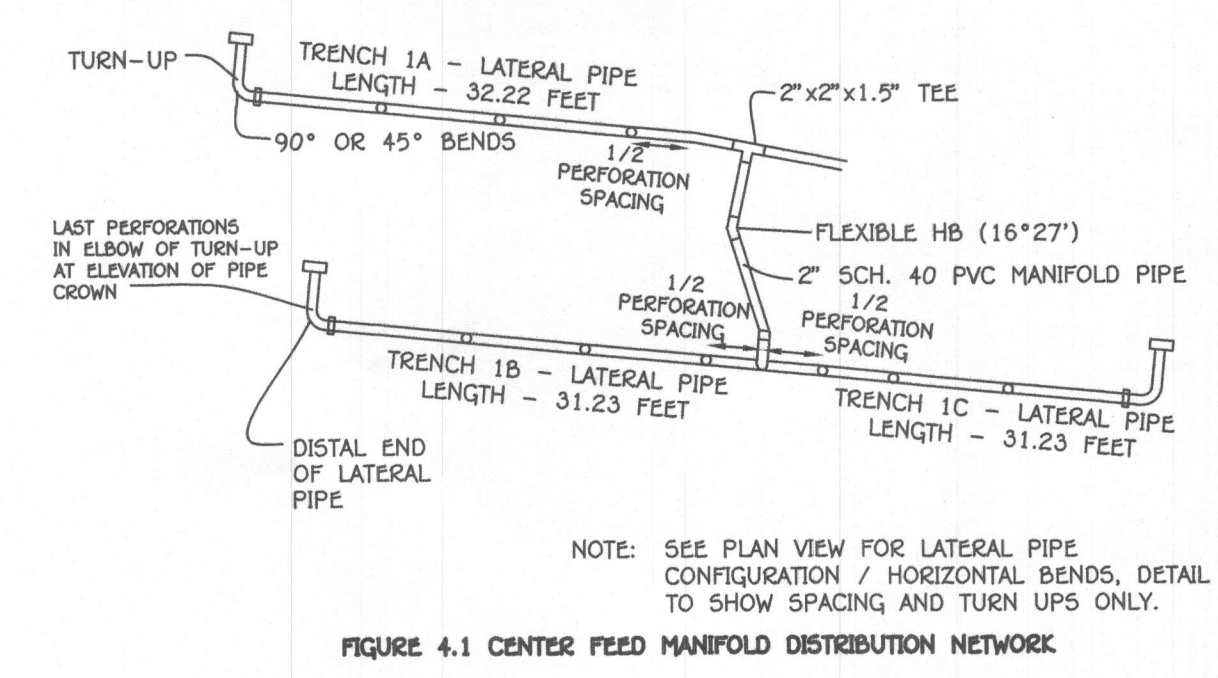
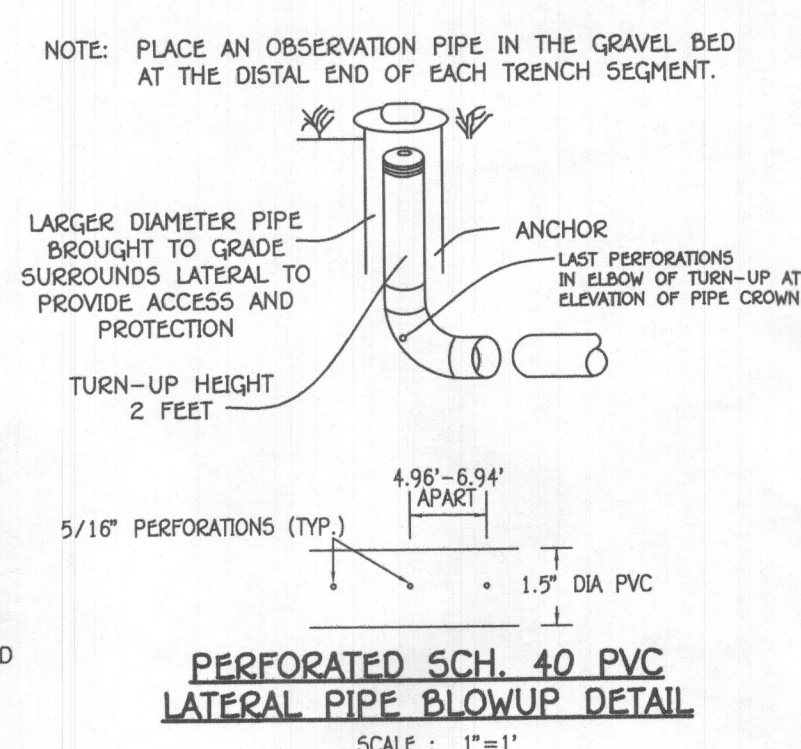
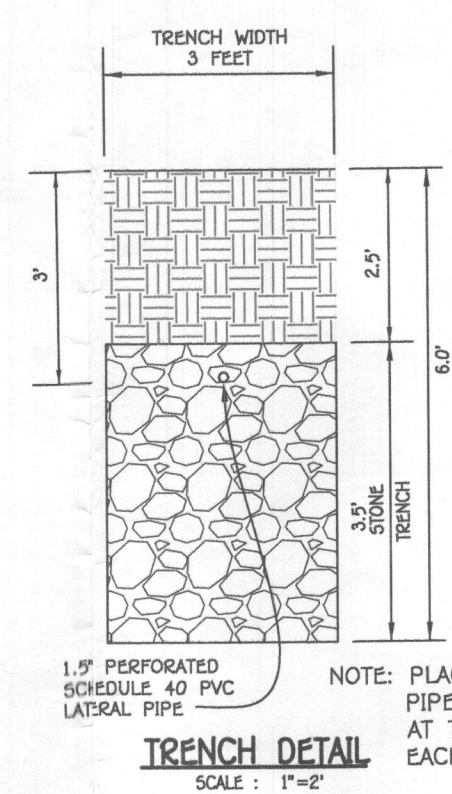
**CONTRACTOR'S CERTIFICATION:**  
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: \_\_\_\_\_  
NAME: \_\_\_\_\_

**CRITICAL DIMENSIONS**

A	1'-0"	N	0'-3"
B	3'-0"	O	0'-6"
C	3'-4"	P	0'-3"
D	4'-5"	Q	1'-4"
E	3'-7"	R	3'-8"
F	12'-2"	S	0'-0"
G	1'-0"	T	2'-0"
H	4'-0"	U	6'-0"
I	0'-3"	V	
J	0'-3"	W	
K	1'-0"	X	
L	0'-2"	Y	
M	3'-6"	Z	

**norweco**  
U.S. AND FOREIGN PATENTS PENDING  
LOW-PROFILE SINGULAR BIO-KINETIC WASTEWATER TREATMENT SYSTEM  
MODEL NTKL-500 GPD  
PC-S-7091



**EFFLUENT PUMPS**

## MYERS® ME SERIES

**DIMENSIONS**

**PUMP PERFORMANCE**

Capacity (liters per minute)	Total head (ft)
100	74.4
200	65.0
300	55.0
400	45.0
500	35.0
600	25.0
700	15.0
800	5.0

**Catalog**

Number	A	B	C	F
ME50S	16.5	4.00	1.80	12.13
ME100	18.5	4.00	1.80	12.13
ME150S, ME100S, ME150S	16.5	4.0	1.80	12.5
ME175S, ME100S, ME150S	16.5	4.0	1.80	12.5
ME175S, ME100S, ME150S	16.5	4.0	1.80	12.5
ME175S, ME100S, ME150S	16.5	4.0	1.80	12.5

**PENTAIR**

**MONARCH PRODUCTS COMPANY, INC.**  
YORK HAVEN, PA. 171-938-8303  
www.MonarchProducts.net

**1500 GAL PUMP TANK**

TOTAL STRUCTURE WEIGHT: 24020 lbs

JOB NAME: \_\_\_\_\_  
STRUCTURE NO.: \_\_\_\_\_  
PUMP TANK

**PUMP ALARMS / INFORMATION**

- A PUMP OFF : 353.16
- B PUMP ON : 353.70
- C HIGH WATER ALARM : 354.24
- D TOP OF ACCESS COVER : 363.0
- E TOP OF TANK : 358.49
- F BOTTOM OF TANK : 351.41
- G DISCHARGE OUT OF TANK : 360.50
- H INVERT INTO TANK : 357.32

NOTE: SEPTIC SYSTEM ALARM WILL BE ON A CIRCUIT SEPARATE FROM ANY OTHER SEPTIC SYSTEM COMPONENTS OR ALARMS.

NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.

**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. 38386, EXPIRATION DATE: 01/12/2020.

*Signature of Professional Engineer* DATE: 3/12/18



**BAT DETAILS**

**11011 CHAPEL ESTATES DRIVE**  
BALAKIRSKY PROPERTY, LOT 2  
PLAT #23207  
ZONING: RC-DEO  
TAX MAP No. 29 GRID No. 14 PARCEL No. 42  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: MARCH, 2018  
SHEET 3 OF 3

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PkE  
ELICOTT CITY, MARYLAND 21142  
(410) 461-3000

NOTE: USE A ME150 PUMP

NO.	REVISION	DATE

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

HOWARD SOIL CONSERVATION DISTRICT

**OWNER**

NISHA PATEL  
C/O GREENFIELD FAMILY HOMES  
6420 ALTURUM SKY WAY  
COLUMBIA, MD 21044  
(443) 324-4732