

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: 12/22/2021 **ONSITE SEWAGE DISPOSAL SYSTEM** P 570887
 APPROVAL DATE: 03/02/2022 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 1916 DAVIS BRANCH ROAD, WOODSTOCK, MD 21163
 SUBDIVISION: MYRTUE PROPERTY LOT: 30 TAX ID: 03-352641
 CONTRACTOR: FARM AND HOME EXC. EMAIL: _____
 CONTRACTOR ADDRESS: 901 DRIVER ROAD MARRIOTTVILLE MD PHONE: 410 442 2139
 PROPERTY OWNER: SONSHINE MD LP EMAIL: _____
 OWNER ADDRESS: 227 GRANITE RUN ROAD, LANCASTER, PA 17601 PHONE: _____
 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: MAYER BROS., INC.
 PUMP MODEL: Zoeller BN151 PUMP SIZE 0.3 Hp PUMP TANK CAPACITY: 2000
 DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>80</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>13</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.0</u>

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

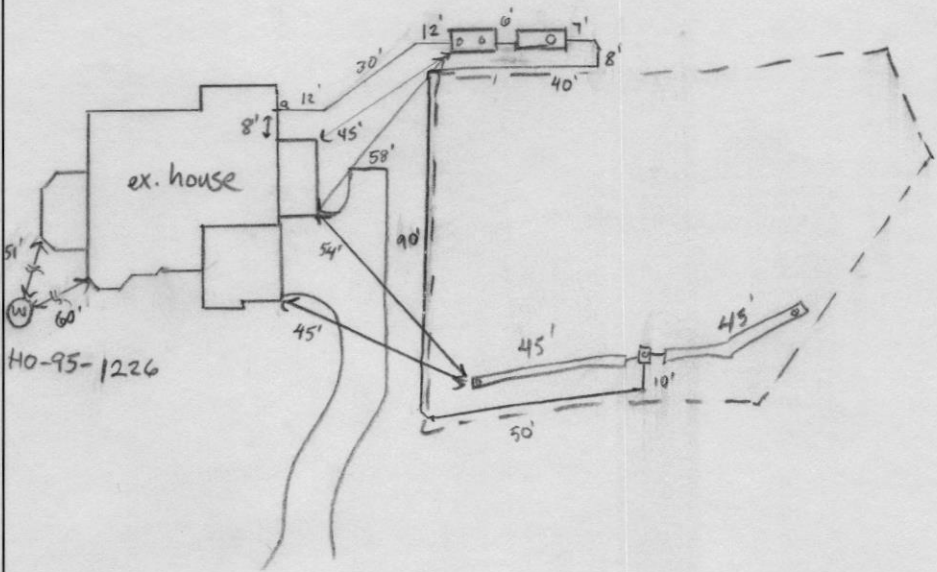
NOTES: INSTALL TWO CLEANOUTS IN SHC, AS ILLUSTRATED

ISSUED BY: R BRICKER ISSUE DATE: _____ EXPIRATION DATE: _____

- 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 21005703
- 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.**

1916 Davis Branch Rd
 NOT TO SCALE 1" = 50'



ROAD NAME
 Davis Branch Rd

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		90'
ABSORPTION AREA		270 sq ft + sidewalk
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		cement
DISTRIBUTION BOX PORT		PVC

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	2' to 1'
BAFFLES	inlet + outlet
BAFFLE FILTER	-
MANHOLE LOC	inlet + outlet
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	11-9-21
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	2'
BAFFLES	inlet
BAFFLE FILTER	-
MANHOLE LOC	outlet
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	no
DATE ON LID	12-14-21

PRE-CONSTRUCTION:
 1/18/22 Laid out 2x40' trenches on contour, according to plan.
 Gave contractor option of routing FM around SDA (near driveway) if he prefers. (S)

INSTALLATION: 1/19/22 Both tanks set, SK constructed. (S) 1/21/22 FM constructed going around driveway side of SDA. 2x45' trenches installed. D-box set. (S) 03/02/2022 LEFT PANEL SEPTIC ARM 22; RIGHT PANEL SEPTIC PUMP 26 - PUMP + ALARM FUNCTION. (P)

FINAL INSPECTOR [Signature] DATE OF APPROVAL 03/02/2022



HOWARD COUNTY HEALTH DEPARTMENT

70887

DATE 12 / 22 / 2021

DS

Received From

Farm and Home Excavating Inc PHONE # 410-492-2139

For

Septic Permits - Windsor Forest Lot # 3711

Myrtine Lots 25, 27, 30

CASH

CHECK

NO. 1884

~~237001~~

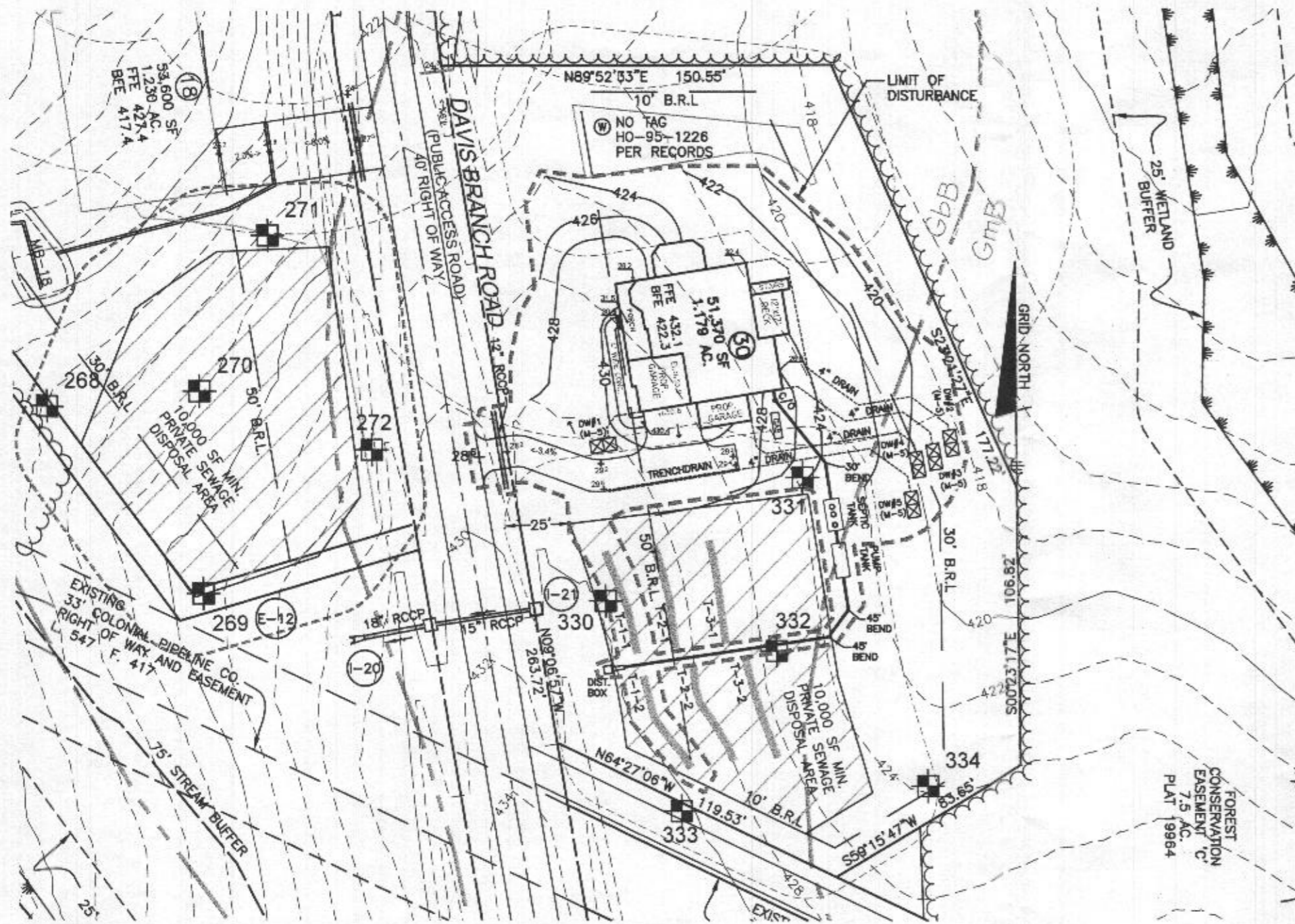
Two thousand & three seven six

Dollars

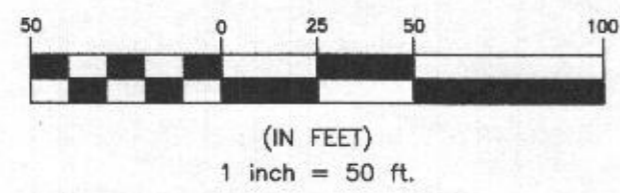
\$ 2,370.01

Received By

J King



PLAN VIEW
1" = 50'



LEGEND

- 400 PROPOSED CONTOURS
- 398 EXISTING CONTOURS
- 400 EXISTING PRIVATE SEWAGE DISPOSAL AREA
- EXISTING WELL BOX
- PROPOSED TREELINE
- EXISTING TREELINE
- SOILS MAP SYMBOL
- SOILS DELINEATION LINE
- PERC TEST PASSED
- PERC TEST FAILED

Approved Septic System Plan
Howard County Health Department
2000-gal Septic Tank with
2000-gal Pump Tank and
Zoeller BN151 pump or equiv.
R. Buckner 4/16/21
Signature Date
To Gravity Distribution
for 5-Bedroom SFD

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. 28376, Expiration Date: 01-01-2023.



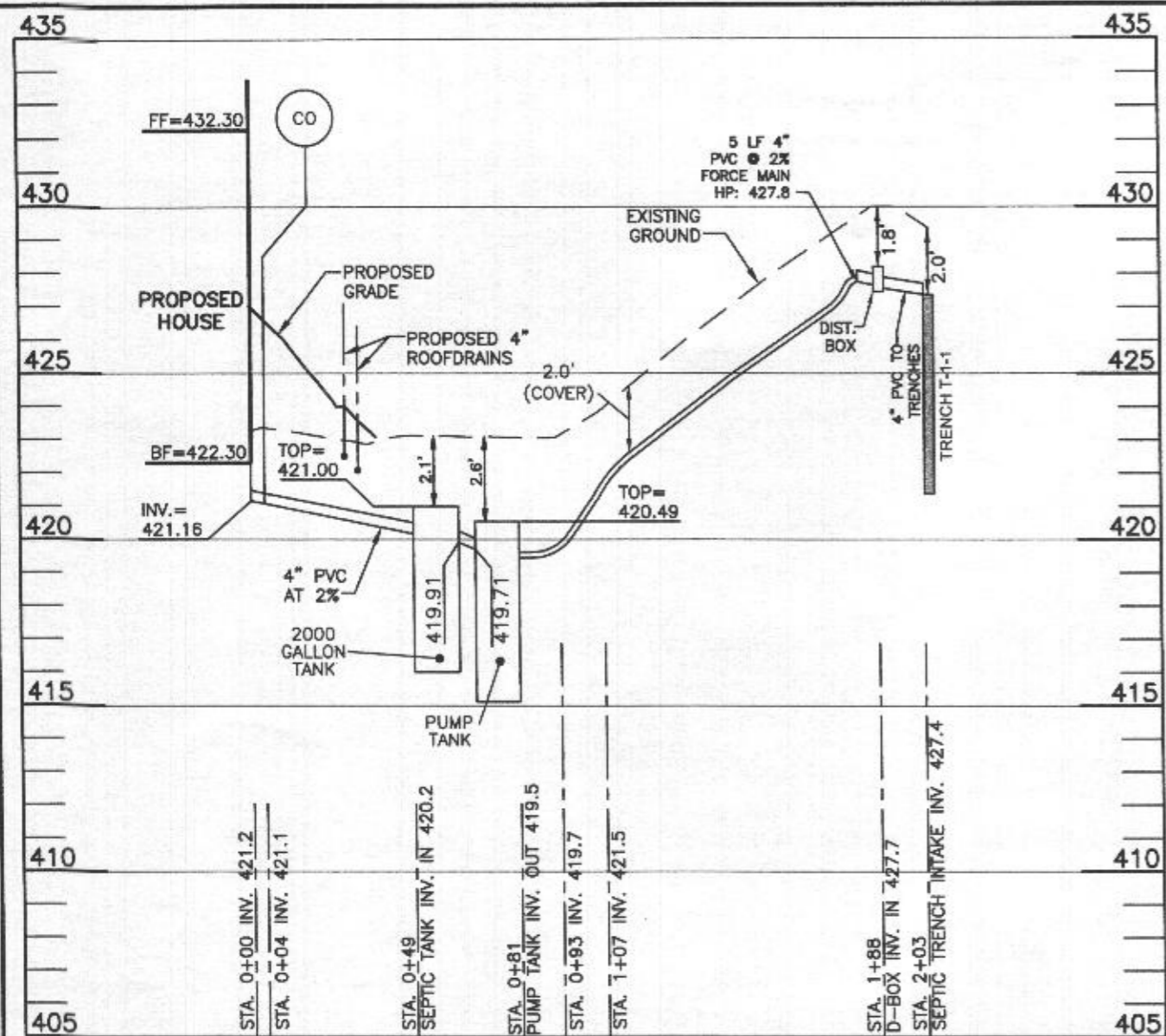
AAM-BEI

2021.04.08 11:49:19 -04'00

OWNER/BUILDER:
KEYSTONE CUSTOM HOMES, INC.
227 GRANITE RUN DR.
SUITE 100
LANCASTER, PA 17601
717-464-9060

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE • SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-6105 • (F) 410-465-6644
WWW.BEI-CVILENGINEERING.COM

PROJECT: MYRTUE PROPERTY LOT 30	
LOCATION: TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1916 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352404	
TITLE: ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE: CUSTOM - KEYSTONE HOMES	
DATE: APRIL, 2021	PROJECT NO. 2099
SCALE: AS SHOWN	DRAWING 2 OF 5



LOT 30 SEPTIC PROFILE
SCALE: 1"=50' HORIZ., 1"=5' VERT.

SEPTIC INVERT CHART - Lot 30	
INV @ HOUSE	421.2
GROUND @ HOUSE	427.0
INV IN SEPTIC TANK	420.2
INV OUT SEPTIC TANK	419.9
TOP OF SEPTIC TANK	421.0
GROUND OVER SEPTIC TANK	423.1
INV IN PUMP TANK	419.7
INV OUT PUMP TANK	419.5
TOP OF PUMP TANK	420.5
GROUND OVER PUMP TANK	423.1
INV IN DIST BOX	427.7
INV OUT DIST BOX	427.6
GROUND AT DIST BOX	430.0

HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 30			
System	Application Rate	Effective Depth	Bottom Depth
1st System	1.2	3.0	8.0
2nd system	1.2	3.0	8.0
3rd System	1.2	3.0	8.0

INITIAL SYSTEM		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.36	
Trench width	3	ft
Effective Area Depth	5	ft
Trench Spacing	13	ft
Linear Length of trench Required	74	lf

1ST REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.36	
Trench width	3	ft
Effective Area Depth	5	ft
Trench Spacing	13	ft
Linear Length of trench Required	74	lf

2ND REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.36	
Trench width	3	ft
Effective Area Depth	5	ft
Trench Spacing	13	ft
Linear Length of trench Required	74	lf

TRENCH DESIGN - LOT 30					
INITIAL SYSTEM					
T-1-1	LENGTH	40 ft	T-1-2	LENGTH	40 ft
	GROUND ELEVATION	429.4		GROUND ELEVATION	429.4
	INVERT ELEVATION	427.4		INVERT ELEVATION	427.4
	MAX BOTTOM ELEVATION	421.4		MAX BOTTOM ELEVATION	421.4
1ST REPLACEMENT SYSTEM					
T-2-1	LENGTH	40 ft	T-2-2	LENGTH	40 ft
	GROUND ELEVATION	428.4		GROUND ELEVATION	428.0
	INVERT ELEVATION	426.4		INVERT ELEVATION	426.0
	MAX BOTTOM ELEVATION	420.4		MAX BOTTOM ELEVATION	420.0
2ND REPLACEMENT SYSTEM					
T-3-1	LENGTH	40 ft	T-3-2	LENGTH	40 ft
	GROUND ELEVATION	427.1		GROUND ELEVATION	426.5
	INVERT ELEVATION	425.1		INVERT ELEVATION	424.5
	MAX BOTTOM ELEVATION	419.1		MAX BOTTOM ELEVATION	418.5

Approved Septic System Plan
Howard County Health Department
2000-gal Septic Tank,
w/2000-gal Pump Tank and
Zoeller BN151 pump or equiv.
R. Beiler 4/16/21
Signature Date
To Gravity Distribution
for 5-Bedroom SFD

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. 28376, Expiration Date: 01-01-2023.



AAM-BEI

2021.04.08 11:56:14 -04'00

OWNER/BUILDER:
KEYSTONE CUSTOM HOMES, INC.
227 GRANITE RUN DR.
SUITE 100
LANCASTER, PA 17601
717-464-9060

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-485-8105 & (F) 410-485-8644
WWW.BEI-CMLENGINEERING.COM

PROJECT:	MYRTUE PROPERTY LOT 30		
LOCATION:	TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1916 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352404		
TITLE:	ONSITE SEWAGE DISPOSAL PLAN		
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES		
DATE:	APRIL, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	3 OF 5

Pumping Station

Diameter of Force Main and Manifold = 2" PVC SCH. 40
 Length of Force Main = 106 feet SCH.40 gallons/100 feet = 17.4 Table 4.2

Volume of Main = 18.4 gallons

Total Volume = 18.4 gallons

Minimum Dose must be greater than 1/6 of the design flow 125 gallons

Minimum Dose must be greater than the volume of the main 18 gallons

Use minimum dose of 160 gallons okay Doses per Day = 4.6875

Size Pump Chamber

Pump chamber must be able to hold one dose and one days design flow

One day Capacity = 750 gallons
 Dose = 160 gallons
 Totals = 910 gallons

Use 2,000 gallon pump tank

Tank Dimensions:	Exterior	Interior			
Length:	13.75 feet	Length:	13.08 feet	Walls:	0.33 feet
Width:	6.25 feet	Width:	5.58 feet	Bottom:	0.33 feet
Height:	5.42 feet	Height:	4.67 feet	Top:	0.42 feet
		Area:	73.05 sf	Bottom to	
		Volume:	341.14 cf	Inlet:	4.58 feet

Sizing the Pump

Flow: runtime = 4.85 minutes
 rate = 33.00 gallons/minute

Design Head: Design Head = Static Head + Friction Head

Static Head = Highest elevation of main - pump off elevation

Highest component of system = 427.81 Main HP
 Pump off elevation = 417.00
 Static Head = 10.81 feet

Friction Head = Head loss due to pipe friction

2.0" pipe =	106 feet		
90° bends	3 loss for bend	21 feet	per table 4.3
45° bends	2 loss for bend	8 feet	per table 4.3
Gate Valve	0 loss for tee	0 feet	per table 4.3

Friction loss per table 4.4 = 1.846 (ft/100 ft)

Equivalent Length = 127 Friction loss 2.34 feet

Total Friction Head = 2.34

Design Head = 13.15 feet

Pump Requirements:

Performance = 33.00 gpm
 Head of Water = 13.15 feet of head

Pump Selection: Zoeller Pump Company Flow-mate Series, Model 151
 1/3 horse power

Pump Flow Rate = 40.50 gallons/minute
 per rating curve. Run time: 3.94 Minutes
 TDH analysis 14.24 ft
 Between design and curve? Yes

Design Pump Chamber

Ground over Tank = 423.08 Cover 2.6 ft
 Top of Tank = 420.48
 Invert of Tank = 415.40
 6" Rise = 0.50 feet
 Pump Height = 1.01 feet

Min. Pump off = 416.91
 Selected Pump off = 417.00

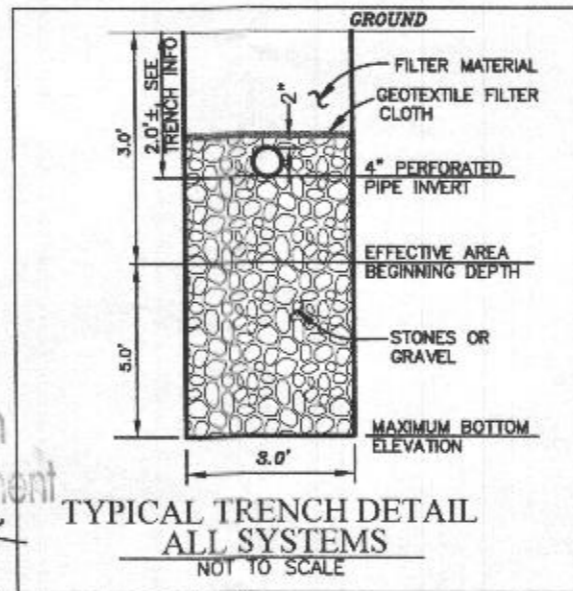
Dose = 21.4 cf
 Area of Pit = 73.05 sf

Pump on dist. = 0.29
 Pump on Elev. = 417.28

Distance between Pump on and Highwater Alarm = 0.5 feet
 Highwater Alarm Elevation = 417.79

Dist. for day stored above alarm 1.37
 Minimum Inlet Elev. = 419.17
 Tank Inlet = 419.65 Okay

SEPTIC INVERT CHART - Lot 30	
INV @ HOUSE	421.3
GROUND @ HOUSE	427.4
INV IN SEPTIC TANK	420.2
INV OUT SEPTIC TANK	419.9
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GROUND OVER SEPTIC TANK	423.1
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INV IN DIST BOX	427.7
INV OUT DIST BOX	427.6
GROUND AT DIST BOX	430.0



Approved Septic System Plan
 Howard County Health Department
 2000-gal Septic Tank
 w/ 2000-gal Pump Tank
 & Zoeller BN151 pump or equiv.
 RBuehler 4/16/21
 Signature Date
 to Gravity Distribution
 for 5-bedroom SFD

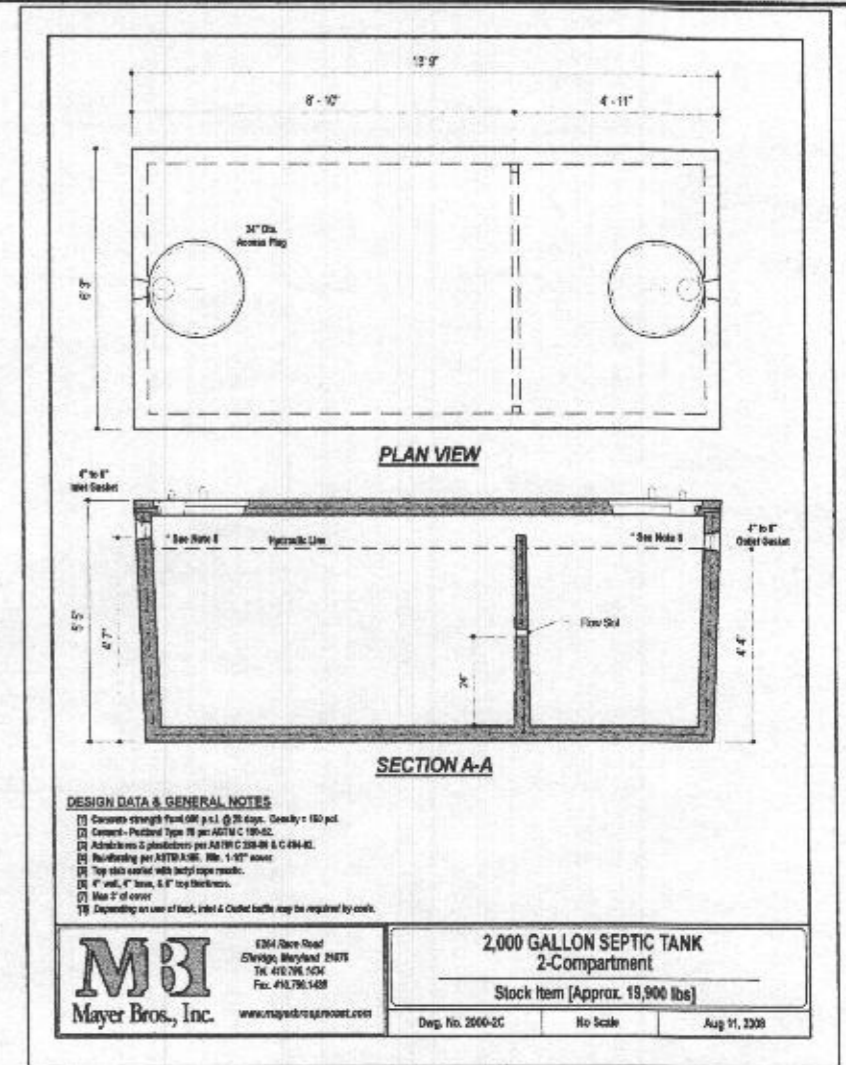
SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK, PUMP AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER:

THIS PLAN IS FOR SEPTIC DESIGN ONLY

SEE MANUFACTURER'S SPECIFICATIONS FOR DETAILS. EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.

OWNER/BUILDER:
 KEYSTONE CUSTOM HOMES, INC.
 227 GRANITE RUN DR.
 SUITE 100
 LANCASTER, PA 17601
 717-464-9060

BENCHMARK ENGINEERING, INC.
 ENGINEERS • LAND SURVEYORS • PLANNERS
 8480 BALTIMORE NATIONAL PIKE • SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 • (F) 410-465-8644
 WWW.BEI-CVLENGINEERING.COM



DESIGN DATA & GENERAL NOTES

- Concrete strength: 4000 psi, 28 days. Density = 150 pcf
- Concrete - Reinforced Type III per ASTM C 109-02
- Adhesives & sealants per ASTM C 209-08 & C 844-02
- Reinforcing per ASTM A 618, Min. 1.05" cover
- Top reinforcement with 180° lap splices
- 4" wall, 4" base, 5.5" top thickness
- Min 2" of cover
- Depending on use of tank, inlet & outlet baffles may be required by code.

MBI
 Mayer Bros., Inc.
 6384 Race Street
 Shrewsbury, Maryland 21787
 Tel. 410.796.5254
 Fax. 410.796.1488
 www.mayerbros.com

2,000 GALLON SEPTIC TANK
 2-Compartment
 Stock Item [Approx. 19,900 lbs]
 Dep. No. 2060-SC No Scale Aug 31, 2008

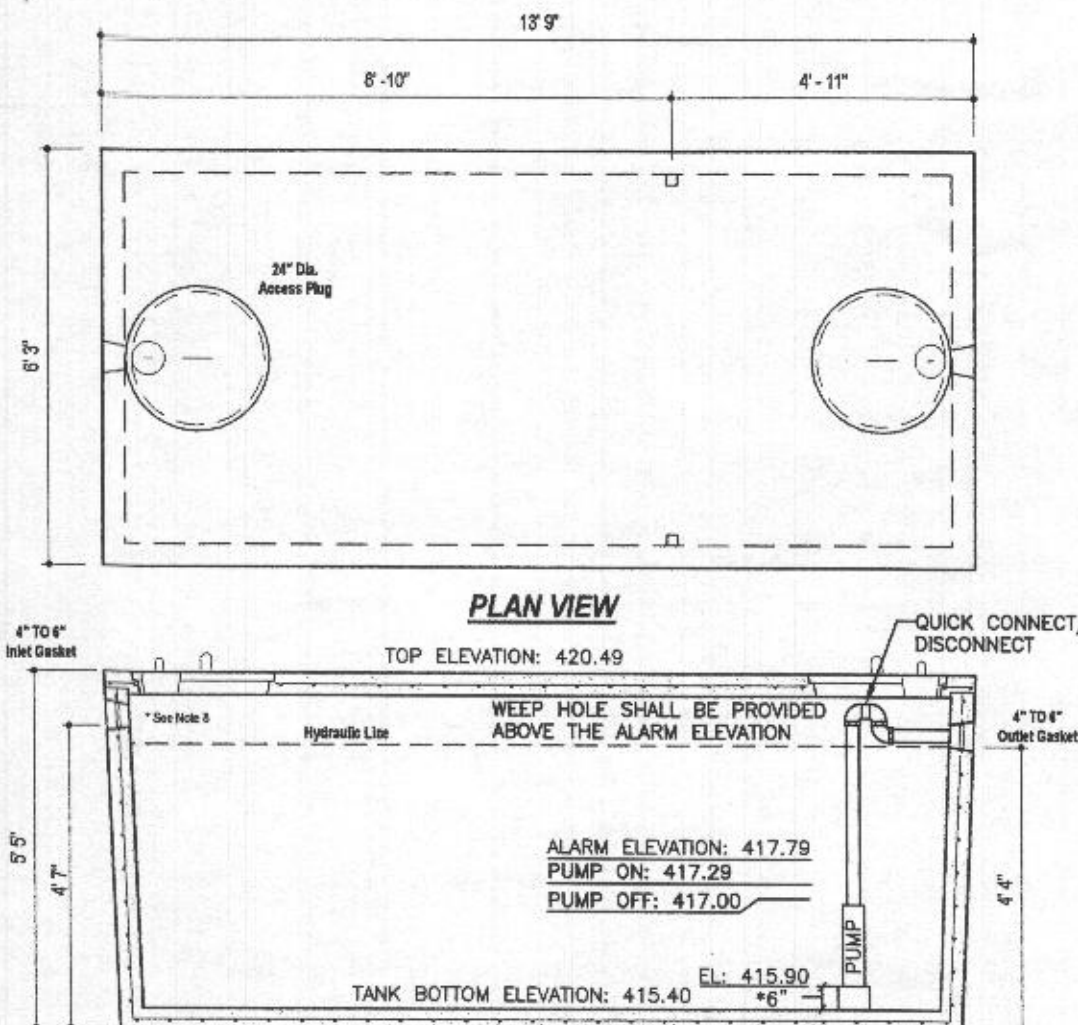
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28376, Expiration Date: 01-01-2023.



AAM-BEI

2021.04.08 12:02:32 -04'00

PROJECT:	MYRTUE PROPERTY LOT 30	
LOCATION:	TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1916 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352404	
TITLE:	ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES	
DATE:	APRIL, 2021	PROJECT NO. 2099
SCALE:	AS SHOWN	DRAWING 4 OF 5



PLAN VIEW

TOP ELEVATION: 420.49

SECTION A-A

*USE BLOCK OR SUPPORT TO RAISE PUMP INLET A MINIMUM OF 0.5' OFF BOTTOM OF TANK

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 & plasticizers per ASTM C 260-96 & C 494-92.
- [4] Reinforcing per ASTM A196. Min. 1-1/2" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, 4" base, & 2" top thickness.
- [7] Max 2" of cover
- [8] Depending on use of tank, Inlet & Outlet baffles may be required by code.

WEIGHT = 19,000 lbs.

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

2,000 GALLON SEPTIC TANK
1-Compartment
Stock Item [Approx. 19,000 lbs]
Dwg. No. 2000-1C No Scale Aug. 11, 2008

Trusted. Tested. Tough.™

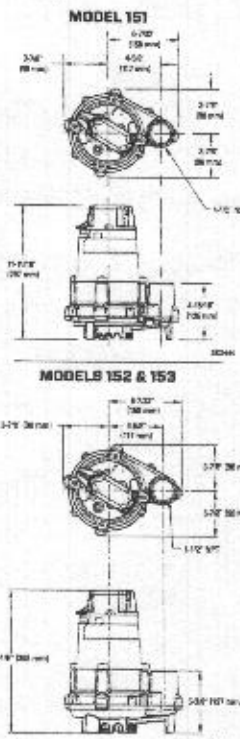


SECTION: 2.15.000
FM2704
1077
Supermodels
0315

TECHNICAL DATA SHEET
DOSE-MATE SERIES
Models 151, 152, 153 Effluent Pumps

PRODUCT SPECIFICATIONS

MOTOR	
Motor Power	1/2 (115V, 470) (115V, 1/2 HP)
Voltage	115 or 230
Phase	1 Ph.
Max. Hertz	60 Hz
HPAC	1450
Type	Permanent split capacitor
Insulation	Class B
Amperes	2.0 - 15.6
PUMP	
Operation	Automatic or manual
Discharge Size	1 1/2" (40mm)
Seals	100% Viton™ seals, 1/2" (13mm) spherical seals
Shaft Length	20" (508mm)
Shaft Type	UL listed galvanized
Max. Head	64' (19.5m)
Max. Flow Rate	77 GPM (291 LPM)
Max. Operating Temp.	130 °F (54 °C)
Cooling	Oil Flood
Motor Protection	Auto reset thermal overload
Cap	Cast iron
Motor Housing	Cast iron
Pump Housing	Cast iron
MATERIALS	
Base	Plastic or steel (115)
Liquid Bearing	Glass bearing
Lower Bearing	Ball bearing
Mechanical Seal	Carbon and Viton™
Impeller Type	Non-clogging (115)
Impeller	Engineered thermoplastic
Hardware	Stainless steel
Motor Shaft	AISI 316 steel
Gasket	Nippon



NOTE: The sizing of effluent systems normally requires variable level float control and properly sized lines to achieve required pumping cycles or timing times with automatic pumps.

NOTE: See model comparison chart for specific details.



© Copyright 2017 Zoeller Co. All rights reserved.
902-778-2731 | 800-608-7867 | 2849 Cere Run Road | Louisville, KY 40211-1981 | zoellerpumps.com

TOTAL DYNAMIC HEAD
FLOW PER MINUTE

MODEL	151	152	153
Flow (GPM)	15	20	25
Flow (LPM)	57	76	95
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	20	25	30
Flow (LPM)	76	95	114
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	25	30	35
Flow (LPM)	95	114	133
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	30	35	40
Flow (LPM)	114	133	152
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	35	40	45
Flow (LPM)	133	152	171
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	40	45	50
Flow (LPM)	152	171	190
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	45	50	55
Flow (LPM)	171	190	209
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	50	55	60
Flow (LPM)	190	209	228
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	55	60	65
Flow (LPM)	209	228	247
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	60	65	70
Flow (LPM)	228	247	266
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	65	70	75
Flow (LPM)	247	266	285
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	70	75	80
Flow (LPM)	266	285	304
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	75	80	85
Flow (LPM)	285	304	323
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	80	85	90
Flow (LPM)	304	323	342
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	85	90	95
Flow (LPM)	323	342	361
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	90	95	100
Flow (LPM)	342	361	380
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	95	100	105
Flow (LPM)	361	380	399
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	100	105	110
Flow (LPM)	380	399	418
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	105	110	115
Flow (LPM)	399	418	437
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	110	115	120
Flow (LPM)	418	437	456
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	115	120	125
Flow (LPM)	437	456	475
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	120	125	130
Flow (LPM)	456	475	494
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	125	130	135
Flow (LPM)	475	494	513
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	130	135	140
Flow (LPM)	494	513	532
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	135	140	145
Flow (LPM)	513	532	551
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	140	145	150
Flow (LPM)	532	551	570
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	145	150	155
Flow (LPM)	551	570	589
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	150	155	160
Flow (LPM)	570	589	608
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	155	160	165
Flow (LPM)	589	608	627
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	160	165	170
Flow (LPM)	608	627	646
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	165	170	175
Flow (LPM)	627	646	665
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	170	175	180
Flow (LPM)	646	665	684
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	175	180	185
Flow (LPM)	665	684	703
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	180	185	190
Flow (LPM)	684	703	722
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	185	190	195
Flow (LPM)	703	722	741
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	190	195	200
Flow (LPM)	722	741	760
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	195	200	205
Flow (LPM)	741	760	779
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	200	205	210
Flow (LPM)	760	779	798
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	205	210	215
Flow (LPM)	779	798	817
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	210	215	220
Flow (LPM)	798	817	836
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	215	220	225
Flow (LPM)	817	836	855
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	220	225	230
Flow (LPM)	836	855	874
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	225	230	235
Flow (LPM)	855	874	893
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	230	235	240
Flow (LPM)	874	893	912
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	235	240	245
Flow (LPM)	893	912	931
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	240	245	250
Flow (LPM)	912	931	950
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	245	250	255
Flow (LPM)	931	950	969
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	250	255	260
Flow (LPM)	950	969	988
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	255	260	265
Flow (LPM)	969	988	1007
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	260	265	270
Flow (LPM)	988	1007	1026
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	265	270	275
Flow (LPM)	1007	1026	1045
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	270	275	280
Flow (LPM)	1026	1045	1064
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	275	280	285
Flow (LPM)	1045	1064	1083
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	280	285	290
Flow (LPM)	1064	1083	1102
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	285	290	295
Flow (LPM)	1083	1102	1121
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	290	295	300
Flow (LPM)	1102	1121	1140
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	295	300	305
Flow (LPM)	1121	1140	1159
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	300	305	310
Flow (LPM)	1140	1159	1178
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	305	310	315
Flow (LPM)	1159	1178	1197
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	310	315	320
Flow (LPM)	1178	1197	1216
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	315	320	325
Flow (LPM)	1197	1216	1235
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	320	325	330
Flow (LPM)	1216	1235	1254
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	325	330	335
Flow (LPM)	1235	1254	1273
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	330	335	340
Flow (LPM)	1254	1273	1292
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	335	340	345
Flow (LPM)	1273	1292	1311
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM)	340	345	350
Flow (LPM)	1292	1311	1330
Head (ft)	10	10	10
Head (m)	3.0	3.0	3.0
Flow (GPM			