

Record Detail * (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Misc/Tanks	B22004543	12/16/2022
Description of Work		
SFD/INSTALL (1) UNDERGROUND 500 PROPANE TANK AND RUN LINE TO HOUSE		

[check spelling](#)

12/19 - permit on hold, 1p tank must be at least '50' from well box, emailed Lou Ann from Dixie Land.

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type	
1910	DAVIS BRANCH	RD	
Unit Type	Unit #	X Coordinate	Y Coordinate
--Select--		-76.86475	39.31783
City	State	Zip Code	Primary
WOODSTOCK	MD	21163	Yes

Parcel * (This section is required.)

Search Reset Clear Get Address & Owner

GIS ID *	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Plan Area
926359	225,287	1.3	105500	105500	0	RURAL
Legal Description						
LOT 31 1.301 A[]1910 DAVIS BRANCH ROAD[]MYRTUE PROPERTY INCL RSB						

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
	31	603000	5	6			
Plan Area	State Tax Id	Subdivision Name					
	1403352668	Myrtue Property					
Section	Area	Tax Map					
		11					
Grid	Zoning District	ADC Map					
11-19	RC-DEO	4695-B10					
SDP No.	Final Plan No.	WP File No.					
	F-06-104						
Record Plat No.	WS Contract No.	FDP No.		Primary			
19961-1996				Yes			
Owner Occupied	Year Built	Historic District					
<input type="radio"/> Yes <input checked="" type="radio"/> No		<input checked="" type="radio"/> Yes <input type="radio"/> No					
Historic District Registry No.	Stat Area	Flood Plain					
	3-02A	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Building No							

Owner * (This section is required.)

Search Reset Clear

Name *

SONSHINE MD LP

Address Line 1

227 GRANITE RUN DR

Address Line 2

Address Line 3

Mail City	Mail State	Mail Zip Code
LANCASTER	PA	17601
Phone	Primary	
717-464-9060	Yes	
E-mail		

Cell Number Fax Number

Professionals (This section is not required.)

License # * Business Name
 20100100429 DIXIE LAND ENERGY LLC

License Type * First Name Middle Name Last Name
 Propane Gs BASIL STEPHEN PERRY

Primary Address Line 1
 Yes 281 EAST MAIN STREET
 Address Line 2

City State ZIP Code
 RISING SUN MD 21911-0000

Phone 1 Phone 2 Fax
 4434144940

E-mail

Applicant (This section is not required.)

As Owner As Lic. Prof As Contact

Type * First Name MI Last Name
 Applicant LouAnn Nickle

Relationship Full Name
 --Select--

Primary Organization Name
 Yes

Street Address
 281 E MAIN ST
 Address Line 2

City State Zip Code
 RISING SUN MD 21911

Phone Cell Fax
 888-517-3680

E-mail *
 Inickle@dixielandenergy.com

Addtl Info

Est Construction Cost * Housing Units * Number of Buildings * Public Owned
 5500 0 0 No

Construction Type
 --Select--

TANK INFORMATION

RESIDENTIAL TANK INFORMATION

Capital Project-No Fee * Capital Project Number Fee Exempt * Roadside Tree Project Permit * Roadside Tree Permit #
 Yes No Yes No Yes No

Existing Use * Number of Tanks Installed * Number of Tanks Removed *
 SFD 1 0

Water Supply Sewage Disposal Expiration Date Relocate Existing Tank *
 Private Private 6/17/2023 0

PAYMENT INFORMATION

Check 1 Payee 1 Check 2 Payee 2 SAP Doc No SAP Entered

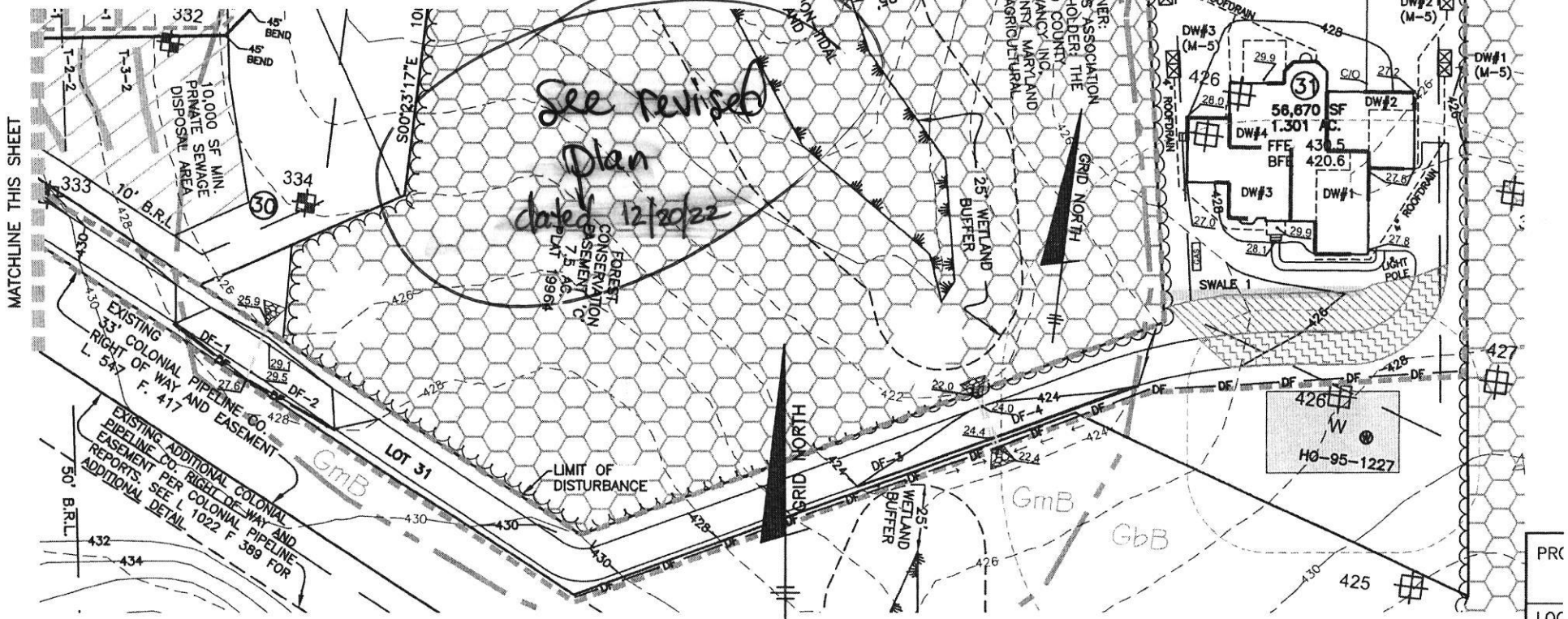
Submit Cancel

GENERAL NOTES

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR THE MYRTUE PROPERTY, PLAT No. 23866. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER GP-22-066.
TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS F-06-104, PREPARED BY DAFT, McCUNE WALKER, INC. SEPT. 2007 AND REVISED BY BENCHMARK ENGINEERING, INC., DEC. 2015.
3. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
4. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
5. THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-1227, WAS FIELD LOCATED BY DMW, AND IS BELIEVED TO BE ACCURATELY SHOWN.
6. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
7. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY FOUR DRY WELLS (MDE M-5) AND NON-ROOFTOP DISCONNECTIONS (MDE N-2).
9. RAINWATER SHALL BE CONVEYED TO THE DRY WELLS WITH HDPE PIPES, ROOF LEADERS AND YARD DRAINS, AS SHOWN.

*Take 10x4'
30' off house
80' off well
150' off septic
15' off Light
95' off left
225' off Rear
115' off Front*

*1910 Davis Branch Rd
Wood Stock, MD 21163*



MATCHLINE THIS SHEET

BUILDER'S DATA

FINISHED FLOOR

430.5

DE AN VIEW

REVISED NOV. 2022 TO SHOW GAS LOCATION

PRC
LOC

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7. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY FOUR DRY WELLS (MDE M-5, 90" off Right AND NON-ROOFTOP DISCONNECTIONS (MDE N-2).
9. RAINWATER SHALL BE CONVEYED TO THE DRY WELLS WITH HDPE PIPES, ROOF LEADERS AND YARD DRAINS, AS SHOWN.

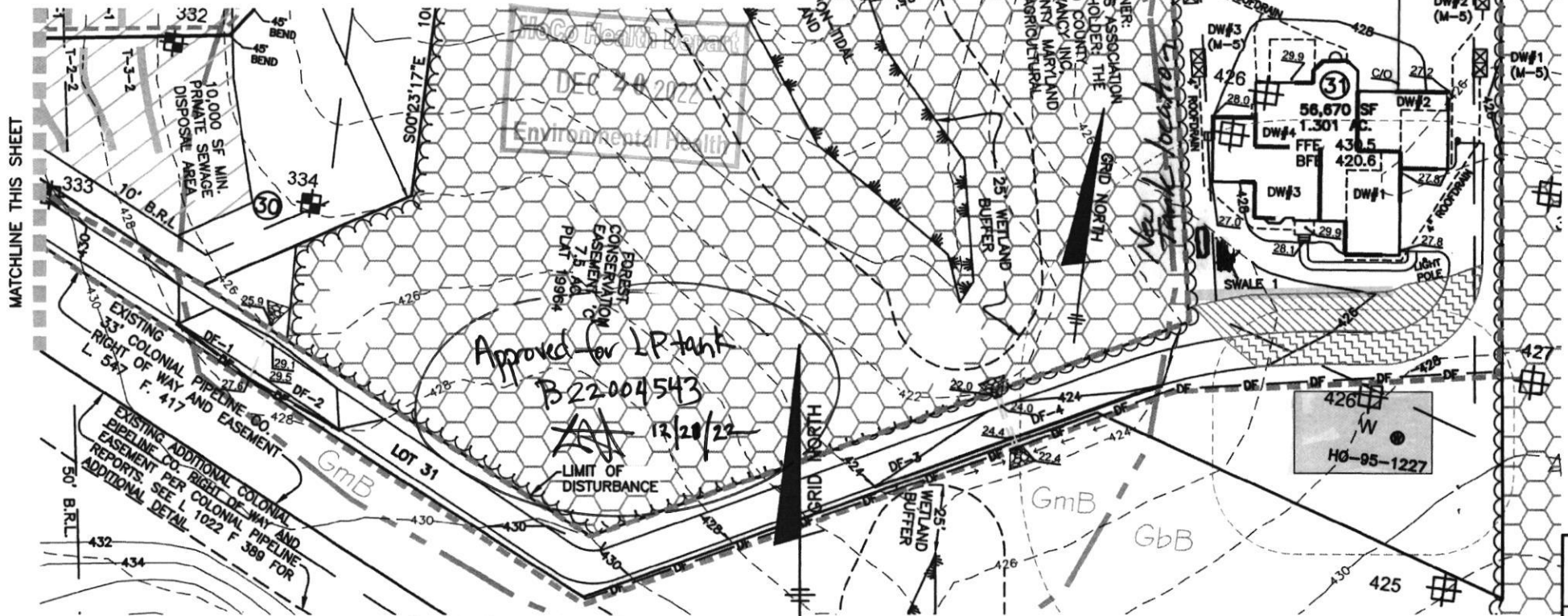
1910 Davis Branch Rd
Wood Stock, MD 21163

Tank 10' x 4'
20' off house
95' off well
105' off septic
15' off left
225' off Rear
115' off Front

DEC 24 2022
Environmental Health

Approved for LP tank
B22004543
12/20/22

★ MOVED TANK 10' Back toward left Property



MATCHLINE THIS SHEET

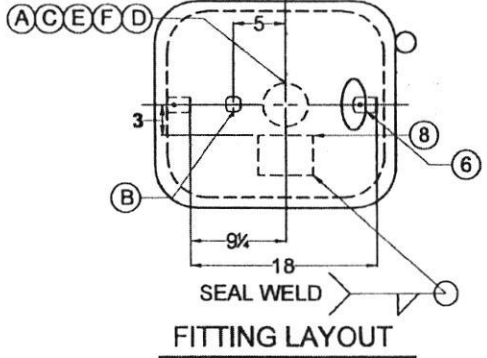
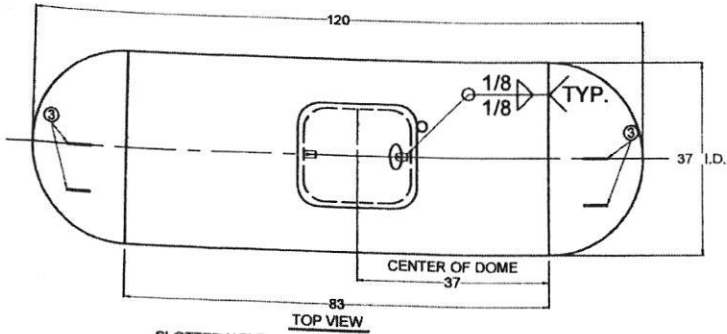
BUILDER'S DATA

FINISHED FLOOR

REVISED NOV. 2022 TO SHOW GAS LOCATION

PRC
LOC

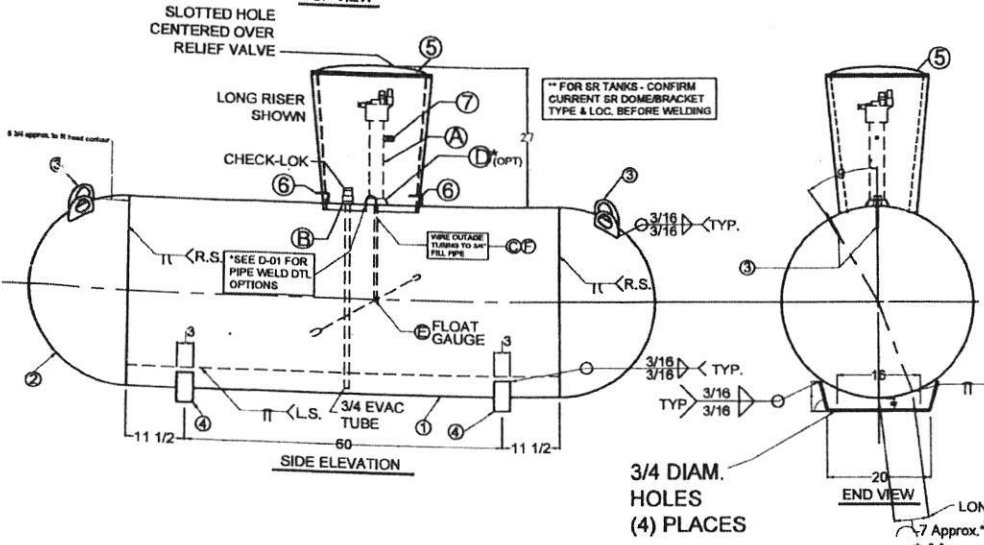
THIS VESSEL IS DESIGNED FOR THE STORAGE OF LIQUEFIED PETROLEUM GAS ONLY



		CERTIFIED BY: QUALITY STEEL CORPORATION CLEVELAND, MS - FREMONT, OH - WEST JORDAN, UT	
MAX. ALLOW. WORK. PRESS. 250 PSI AT 400	M.D.M.T. -20 ° F. AT 250 PSI	YEAR BUILT 201	SER. NO. *
LENGTH 120 IN.	OUTSIDE DIA. 37.5 IN.	HEAD THK. .185 IN.	SHELL THK. .218 IN.
UNDER GROUND TYPE UQ5	SURFACE AREA 100 SQ. FT.	HEAD D.R. HEMI	WATER CAPACITY 500 GALL.
CONTAINER ASSEMBLY FOR LP GAS			
THIS CONTAINER SHALL NOT CONTAIN A PRODUCT HAVING A VAPOR PRESSURE IN EXCESS OF 215 PSI AT 100°F. DIP TUBE LENGTH - 89% FULL AT 50°F. D.T. - 124 IN.			

SHORT RISER TANKS MUST HAVE DT LENGTH UPDATED TO 17.0

DATA PLATE DETAIL



SEE D-01 FOR ANY UNSPECIFIED WELD DETAILS

- GENERAL NOTES:**
- LIFTING LUGS DESIGNED FOR TOTAL LIFTING WEIGHT OF 150
 - TOTAL EMPTY WEIGHT IS 976#
 - ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 - COMPLETE TANK DRIED TO REMOVE ALL MOISTURE.
 - ALL WEIGHTS AND CAPACITIES ARE APPROXIMATE
 - EXTERIOR OF TANK TO BE GRIT BLASTED
 - PAINT PER SHOP ORDER
 - VACUUM PURGE TANK
 - DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. (NON-PRESSURE RETAINING COMPONENTS ONLY)
 10. THREADS OF ALL FITTINGS TO BE COATED WITH COMPOU SUITABLE FOR USE WITH LP GAS.
 11. FLOAT GAUGE TO BE INSTALLED WITH FLOAT ARM 45 ° OFF LONGITUDINAL CENTERLINE OF TANK
 12. DOUBLE LIFTING LUGS ON LONG RISER TANKS ONLY

GENERAL SPECIFICATIONS	
WATER CAPACITY (GALLONS)	500
ALLOWABLE WORKING PRESSURE (PSIG)	250
JOINT EFFICIENCY:	ASME UW-51 LONG SEAM 100
	ASME UW-52 HEAD TO SHELL 80
HYDROSTATIC TEST PRESSURE (PSIG)	325
SURFACE AREA (SQ. FT.)	100
RELIEF VALVE SETTING (PSIG)	250
RELIEF DISCHARGE RATE - (CFM REQ'D.)	702
HEAT TREATMENT NOT REQUIRED	
CODE:	ASME SECTION VIII DIV. I
STANDARDS:	UNDERWRITERS LABORATORIES INC. MH-7
	N.F.P.A. 58 LP GAS CODE
MATERIAL SPECS.:	COUPLINGS SA-105
	TANK FLANGES SA-105 OR SA-181
	ADAPTOR SA-105
	PIPE - SA53B OR SA106B

500 W.G. UNDERGROUND PROPANE TANK-TYPE-UQ5 (FORMERLY AWT-UG)

QUALITY STEEL CORPORATION

MARK	QTY.	SIZE	TYPE	FITTINGS	SERVICE	MARK	QTY.	DESCRIPTION	DWG. NO.
A	1	2 1/2	SCHED. 80 PIPE T.O.E. X 18 1/4" I.D. & DOME HT. = 24"	BPG008475RL24.1	MULTIVALVE	1	1	SHELL - 0.218" X 83" X 118 11/16" - SA414G	
A (ALT.)	1	2 1/2	SCHED. 80 PIPE T.O.E. X 9 1/2" I.D. & DOME HT. = 18"	BPG008475RL24.1	MULTIVALVE	2	2	HEADS - 37" LD. X 0.185" - HEM: SA414C	
B	1	3/4	XH FLG. W/ EVAC TUBE	007590UT	CHEK-LOK	3	4	LIFTING LUGS	D - 63
C	1	3/4	SCH. 40 PIPE (T.O.E.)		FILL PIPE	4	2	TANK LEGS (SINGLE PIECE LEGS)	D - 3
D (OPT.)	1	2 1/2	XH SOCKET WELD FLG		RISER PIPE ATTACHMENT	5	1	DOME	D-5 & D-47
E	1	1 1/4	4 - BOLTS		FLOAT GAUGE (Long Riser)	6	2	DOME BRACKETS	D - 30
E (ALT.)	1	1 1/4	4 - BOLTS		FLOAT GAUGE (Short Riser)	7	1	ANODE ATTACHMENT	D - 17
F	1	1/8	BRASS TUBE		OUTAGE TUBE, 17" SR 24" LR	8	2	DATA PLATE, 500 GAL., U/G	D - 60

PART NUMBER: 0105004x LONG RISER
0105003x SHORT RISER

REV.	BY:	DESCRIPTION	DATE:
17	CDH	REVISED FILL PIPE LENGTHS	12/13/01
18	CDH	ADDED FLOAT GA. DESCRIPTIONS CHANGED MDMT PRESSURE TO 250 PSI	5/21/02
19	CDH	REMOVED DOME CLIPS, ADDED SNAP LOCKS	8/28/02
20	CDH	REPOSITIONED SNAP LOCKS & REMOVED DETAIL	10/21/02
21	SEA	ADD SA-181 AS OPTION FOR FLANGES	8/28/05
22	RGA	REVISED COMPANY NAME	12/08/07
23	wls	STANDARDIZE DRAWINGS	06/30/11
24	wls	UPDATED NAME PLATE	09/13/12
25	bls	UPDATED SHELL LENGTH	03/18/14
26	TWV	UPDATED HEAD & PLT THICKNESS & NAMEPLATE. UPDATE TO QSC STD COMPONENTS.	06/19/15

DATE: 01 / 03 / 00	DRAWN BY: RAC	APPROVED BY: TWV	REVISION: 26	DRAWING NO: R-5001
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UG STANDARD

PERMIT NUMBER: B 22000623

DATE ACCEPTED:



RESIDENTIAL BUILDING PERMIT APPLICATION

HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS
3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4
www.howardcountymd.gov

BUILDING SITE ADDRESS REQUIRED

Street Address: 1910 Davis Branch Road
City: Woodstock
State: MD
Zip Code: 21163
Subdivision/Village/Complex Name: Myrtue Property
SDP/WP/BA #:
Lot: 31 Tax Map: 10, Grid 24 Parcel: 225 Grading Permit #: G2200034

DESCRIPTION OF WORK REQUIRED

Existing Use: Vacant improved lot Proposed Use: SFD Estimated Cost: \$ 619,650.00
Trade Work to Be Completed (Separate Permits Required): Mechanical (HVACR) Electrical Plumbing None

PROPERTY OWNER INFORMATION REQUIRED

Owner(s) Name(s) (As it appears on tax records): Sonshine MD LP Primary Residence: Yes No
Owner's Street Address: 227 Granite Run Drive, Suite 100
City: Lancaster State: PA Zip Code: 17601
Phone: (717) 464-9060 Email: billb@keystonecustomhome.com

APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION

Business Name: Keystone Custom Homes Contact Name: Neil J. Bontempi
Street Address: 227 Granite Run Drive, Suite 100
City: Lancaster State: PA Zip Code: 17601
Phone: (717) 847-5426 Email: nbontempi@keystonecustomhome.com

CONTRACTOR INFORMATION REQUIRED

Business Name: Keystone Custom Homes
Licensee's Name: License #: MHBR# 2937 (exp 12/01/2023)
Street Address: 227 Granite Run Drive, Suite 100
City: Lancaster State: PA Zip Code: 17601
Phone: (717) 847-5426 Email: nbontempi@keystonecustomhome.com

ARCHITECT/ENGINEER INFORMATION INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE

Business Name: James F. Collins, P.E. Name: James F. Collins
Street Address: 227 Granite Run Drive, Suite 100
City: Lancaster State: PA Zip Code: 17601
Phone: (352) 250-3146 Email: jcollins@keystonecustomhome.com

BUILDING CHARACTERISTICS REQUIRED

Primary Structure: SF Dwelling SF Townhouse SF Duplex Mobile Home Multi-Family Dwelling (MF*) Condo: Yes No
Utilities: Electric Gas Water Supply: Public Private (Well) Sewage Disposal: Public Private (Septic)
Heating System: Electric Natural Gas Propane Other: Roadside Tree Project: No Yes: #
Sprinkler System: NFPA 13 NFPA 13R NFPA 13D None Fire Alarm System: Yes No Voice Evac

ADDITIONAL RESIDENTIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)

Model Name & Options: Devonshire Farmhouse
of Bedrooms (SF): 5 # of efficiency units (MF*): # of 1 BR (MF*): # of 2 BR (MF*): # of 3 BR (MF*):
Rooms: 15 # Full Baths: 4 # Half Baths: 1 # Fireplaces: 0
Garage/Carport Info: Attached Garage Detached Garage Integral Garage Carport None
Basement/Foundation Info: Slab on Grade Post & Pier Unfinished Basement Finished Basement: Full or Partial
1st Fl Width: 86 1st Fl Depth: 71 2nd Fl Width: 69 2nd Fl Depth: 59 Bsmt Width: 86 Bsmt Depth: 71
Energy Method: Prescriptive Performance UA Alternative ERI Gross Area: 9,888 sq ft Occupiable Area: 9,850 sq ft

AGREEMENT/ DISCALIMER REQUIRED

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE HERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES

Neil J. Bontempi
APPLICANT'S ORIGINAL SIGNATURE

2/23/22
DATE SIGNED

FOR OFFICE USE ONLY

CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

AGENCIES REQUIRED/APPROVALS:
PR DPZ DED Health SHA CID
SUBMITTAL FEES: \$150.00 PAYMENT: 4674 ACCEPTED BY: [Signature]

PLANS RECEIVED

**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 04/26/2022

To: Robert Bricker Bureau of Environmental Health, Well and Septic Program
(Reviewer/Requestor's Name) (Division)

From: Neil J. Bontempi / Keystone Custom Homes (717) 847-5426
(Your Name, Company Name) (Phone Number)

Subject: Project name Myrtue Lot 31
Project site address 1910 Davis Branch Road, Woodstock, MD 21163
Permit # B22000623 SDP # _____
Other information pertinent to this project _____

- Please check the attachments below that you are submitting with this transmittal:
- Letter of response to address plan review comment letter
 - Revised plans and/or revised details: When submitting for a complete re-review, **duplicate sets shall be submitted.**
 - Letter Summarizing Changes *****Basement Bath fixture overlay missing on original submission
 - Energy conservation calculations
 - Copies of _____ (be specific).
 Health Department Request DPZ/ DED Request Applicant's Request
 - Two sets of single-family model plans to be placed on permanent file: Model Name/ # _____
 - Other Buyer states they have no intention of adding a bedroom to the basement.

Contact Person Information: (Required)

Neil J. Bontempi Telephone No: (717) 847-5426
Please Print Name E-Mail Address: nbontempi@keystonecustomhome.com


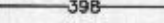



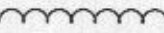
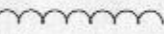
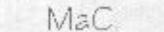



PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455 OPTION #4 OR BY VISITING MYHOWARD.INFO. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

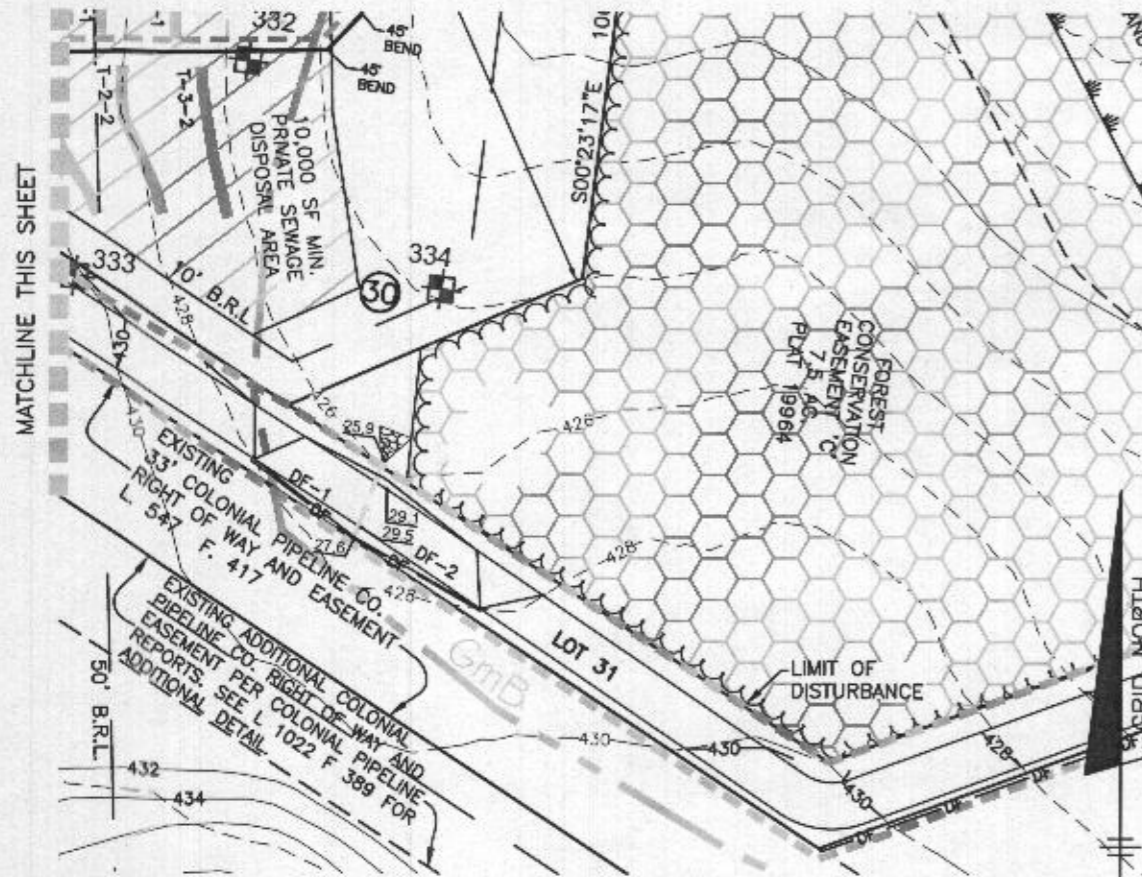
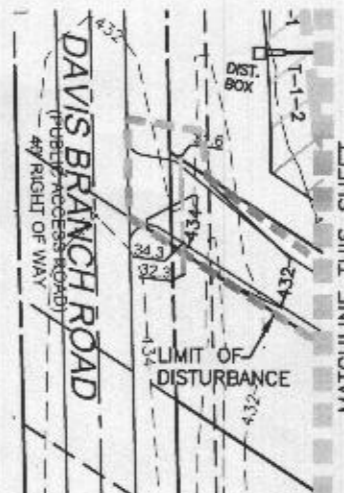
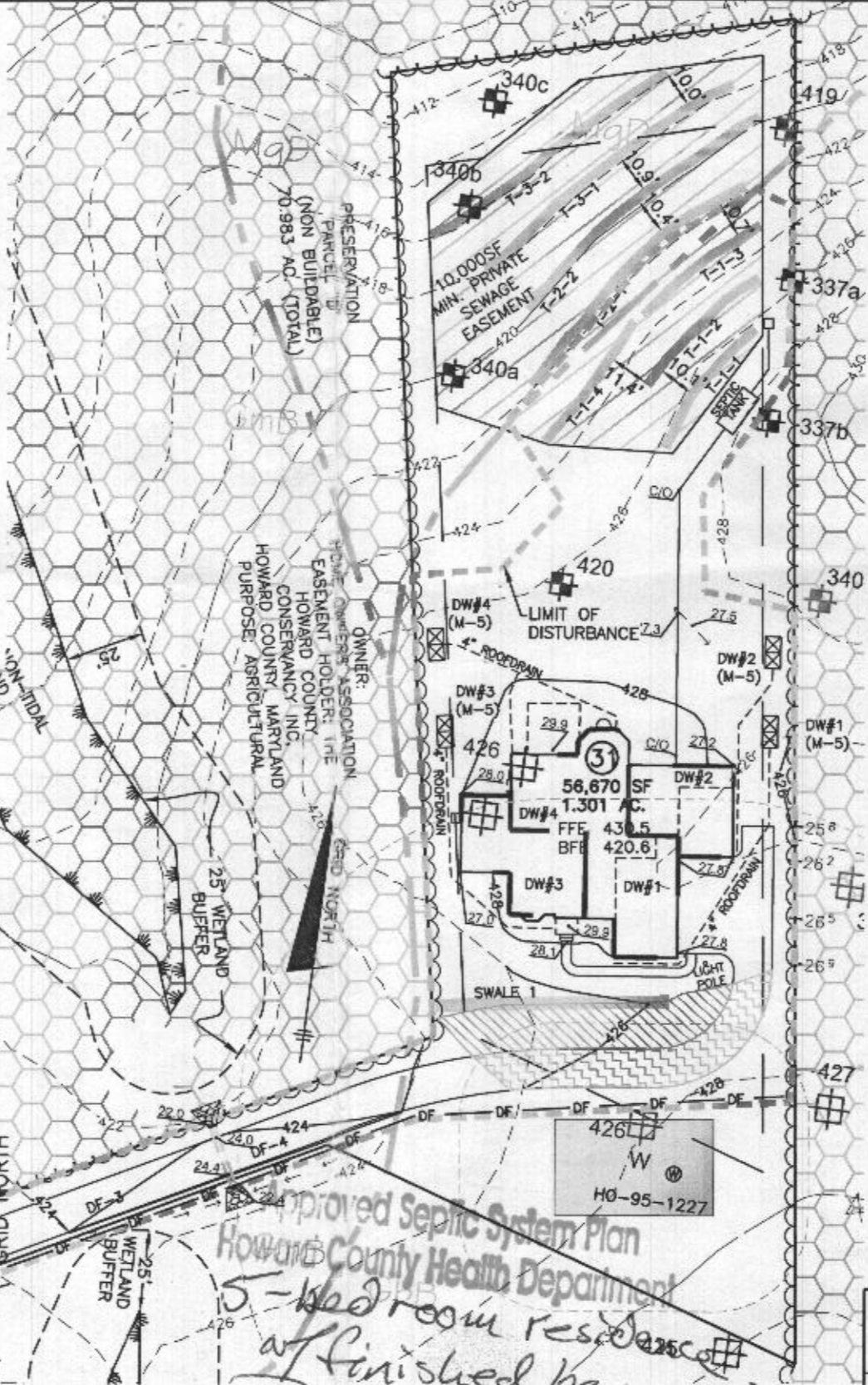
Received by _____

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9. RAINWATER SHALL BE CONVEYED TO THE DRY WELLS WITH HDPE PIPES, ROOF LEADERS AND YARD DRAINS, AS SHOWN.

LEGEND

-  400
-  398
-  400
-  EXISTING PRIVATE SEWAGE DISPOSAL AREA
-  EXISTING WELL BOX
-  PROPOSED TREELINE
-  EXISTING TREELINE
-  SOILS MAP SYMBOL
-  SOILS DELINEATION LINE
-  DRIVEWAY DISCONNECTION AND RECEIVING AREA
-  LIMIT OF DISTURBANCE



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.



BEI-AAM

2021.12.13 10:16:15 -05'00

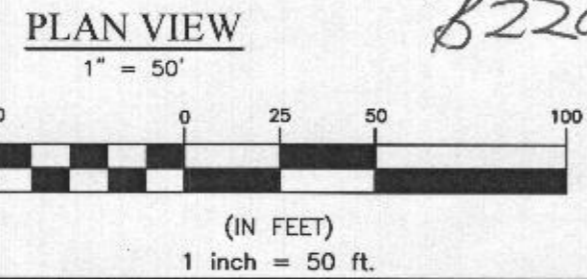
*Approved Septic System Plan
Howard County Health Department
5-Bed room residence
at finished basement*

B22000623 Rbude 4/7/22

BUILDER'S DATA

FINISHED FLOOR:	430.5
TOP OF WALL:	429.3
BASEMENT FLOOR:	420.6
BASEMENT SUBGRADE:	419.7
GARAGE FLOOR:	428.1
GARAGE LP:	427.8
SEWER 3.0' BELOW TOW:	426.3

GARAGE FLOOR IS 14" BELOW THE TOP OF THE REAR FOUNDATION WALL.



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
ELICOTT CITY, MARYLAND 21043
(P) 410-465-6105 • (F) 410-465-6644
WWW.BEI-CIVILENGINEERING.COM

PROJECT:		MYRTUE PROPERTY LOT 31	
LOCATION:		TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1910 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352668	
TITLE:		BUILDING PERMIT PLAN	
HOUSE TYPE:		CUSTOM - KEYSTONE HOMES	
DATE:	DECEMBER, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	1 OF 2

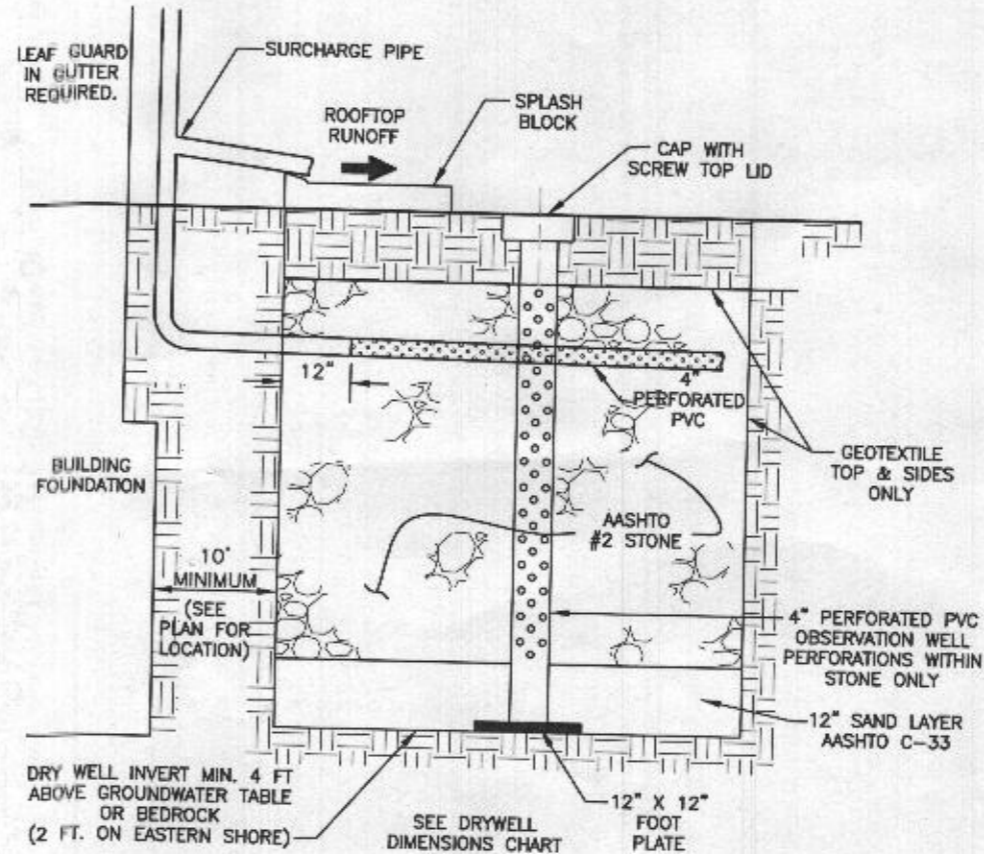
(M-5) DRY WELL COMPUTATIONS

Lot 31											
Designation	Drainage Area	Impervious Area	I (%)	Rv	ESDv (cf)	Depth (ft)	Porosity	Length (ft)	Width (ft)	Volume Stored	Pe Treated
DW-1	1015	1015	100%	0.950	145	5.0	0.40	12	6	144	1.8
DW-2	837	837	100%	0.950	119	5.0	0.40	10	6	120	1.8
DW-3	996	996	100%	0.950	142	5.0	0.40	12	6	144	1.8
DW-4	1005	1005	100%	0.950	143	5.0	0.40	12	6	144	1.8
Totals:					549					552	

Drywell Designation	Length (ft)	Width (ft)	Depth (ft)	Grade	Top of Stone	Bottom of Stone
DW-1	12.00	6.00	5.00	426.3	425.3	420.3
DW-2	10.00	6.00	5.00	427.5	369.2	364.2
DW-3	12.00	6.00	5.00	427.4	368.2	363.2
DW-4	12.00	6.00	5.00	426.4	425.4	420.4

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED (M-5) DRY WELLS

- The monitoring wells and structures shall be inspected on a quarterly basis and after every large storm event.
- Water levels and sediment build up in the monitoring wells shall be recorded over a period of several days to insure trench drainage.
- A log book shall be maintained to determine the rate at which the facility drains.
- When the facility becomes clogged so that it does not drain within the 72 hour time period, corrective action shall be taken.
- The maintenance log book shall be available to Howard County for inspection to insure compliance with operation and maintenance criteria.
- Once the performance characteristics of the infiltration facility have been verified, the monitoring schedule can be reduced to an annual basis unless the performance data indicates that a more frequent schedule is required.



DRY WELL DETAIL
NOT TO SCALE

MATERIALS & SPECIFICATIONS FOR MICRO-BIORETENTION

MATERIAL	SPECIFICATION	SIZE	NOTES:
PLANTINGS	SEE APPENDIX A; TABLE A.4	N/A	PLANTINGS ARE SITE SPECIFIC
PLANTING SOIL (2.0' TO 4.0' DEEP)	LOAMY SAND 60-85% COMPOST 35-40% OR SANDY LOAM 30% COARSE SAND 30% & COMPOST 40%	N/A	USDA SOIL TYPES: LOAMY SAND OR SANDY LOAM; CLAY CONTENT <5%
ORGANIC CONTENT	MIN 10% BY DRY WEIGHT ASTM D 2974		
MULCH	SHREDDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM, NO PINE OR WOOD CHIPS
GEOTEXTILE (CLASS "C")		N/A	PE TYPE 1 NONWOVEN
GEOTEXTILE (1/4" WIRE MESH)		1/4" WIRE MESH	1/4" WIRE MESH
UNDERDRAIN GRAVEL	AASHTO M-43	NO. 57 OR NO. 5 0.375" TO 0.750"	
UNDERDRAIN PIPING	F758, TYPE PS28 OR AASHTO M-278	4" TO 6" RIGID SCH.40 PVC, SDR35 OR HDPE	3/8" PERF. @ 6" O/C, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES, NOT NECESSARY UNDERNEATH PIPES. PIPE SHALL BE WRAPPED WITH 1/4-INCH GALVANIZED HARDWARE CLOTH
IMPERVIOUS LINER	ASTM-D-4833 (THICKNESS) ASTM-D-412 (TENSILE STRENGTH 1,100 LB., ELONGATION 200%) ASTM-D-624 (TEAR RESISTANCE - 150 LB./IN) ASTM-D-471 (WATER ADSORPTION: +8 TO -2% MASS)	30 MIL. THICK	LINER TO BE ULTRAVIOLET RESISTANT. A GEOTEXTILE FABRIC SHOULD BE USED TO PROTECT THE LINER FROM PUNCTURE.
GEOTEXTILE (BELOW IMPERV. LINER)	ASTM-D-4833 (PUNCTURE STRENGTH 125LB) ASTM-D-4632 (TENSILE STRENGTH 300 LB.)		

(N-2) Disconnection of Non-Rooftop Runoff

Target PE:	1.0
Total DA:	2377 SF
Impervious:	1178 SF
Area of Filter Strip:	1201 SF ok
Rv:	0.60
Pe Reduction for Non-Rooftop Disconnection	
Length of contributing area:	12 feet
Length of impervious area:	12 feet
Length of filter strip:	14 feet
MAX. all imp. treated	1 /1 Impervious ratio
MAX. all imp. treated	1 /1 Pervious ratio
Reduction to Target Pe	1.0 inches
Remaining obligation:	0.0 inches
ESDv Required:	98
ESDv Provided:	98

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF ROOFTOP RUNOFF (N-1), DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

- A. MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
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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.



BEI-AAM

2021.12.13 10:19:02 -05'00

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

PROJECT: **MYRTUE PROPERTY LOT 31**

LOCATION: TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO
1910 DAVIS BRANCH RD. WOODSTOCK, MD 21163
6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352668

TITLE: **BUILDING PERMIT PLAN**

HOUSE TYPE: **CUSTOM - KEYSTONE HOMES**

DATE: DECEMBER, 2021 PROJECT NO. 2099

SCALE: AS SHOWN DRAWING 2 OF 2

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 www.keystonecustomhomes.com



KEYSTONE CUSTOM HOMES, INC.



FRONT ELEVATION
 SCALE: 3/8" = 1'-0"



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. 30358, Expiration Date: 12-17-2022.

DATE: 02/04/2022	PROJECT: MRS031 PARK
SCALE: AS NOTED	DESIGNER: T. BENNETT
SHEET NO. A10	
PLANS AND SCHEDULES	