

PERMIT NUMBER: B 21002479

DATE ACCEPTED:

RECEIVED



RESIDENTIAL BUILDING PERMIT APPLICATION

APR 30 2021

HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS

LICENSES & PERMITS DIVISION

3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4

www.howardcountymd.gov

BUILDING SITE ADDRESS REQUIRED

Street Address: 1942 Davis Branch Road
City: Woodstock
Subdivision/Village/Complex Name: Myrtue Property
Lot: 27
Tax Map: 10, Grid 24
Parcel: 225

DESCRIPTION OF WORK REQUIRED

Existing Use: Vacant improved lot
Proposed Use: SFD
Estimated Cost: \$545,400.00
Trade Work to Be Completed: Mechanical (HVACR), Electrical, Plumbing, None

PROPERTY OWNER INFORMATION REQUIRED

Owner(s) Name(s): Marriott's Ridge, LLC
Owner's Street Address: 227 Granite Run Drive, Suite 100
City: Lancaster
State: PA
Zip Code: 17601

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

CONTRACTOR INFORMATION REQUIRED

Business Name: Keystone Custom Homes
Licensee's Name:
License #: MHBR# 2937 (exp 12/01/2021)
Street Address: 227 Granite Run Drive, Suite 100
City: Lancaster
State: PA
Zip Code: 17601

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

BUILDING CHARACTERISTICS REQUIRED

Primary Structure: SF Dwelling
Utilities: Electric, Gas
Water Supply: Public, Private (Well)
Sewage Disposal: Public, Private (Septic)
Heating System: Electric, Natural Gas, Propane, Other
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 Manor
of Bedrooms (SF): 5
of efficiency units (MF*):
of 1 BR (MF*):
of 2 BR (MF*):
of 3 BR (MF*):
Rooms: 23
Full Baths: 6
Half Baths: 1
Fireplaces: 1
Garage/Carport Info: Attached Garage
Basement/Foundation Info: Slab on Grade
1st Fl Width: 80
1st Fl Depth: 59
2nd Fl Width: 53
2nd Fl Depth: 54
Bsmt Width: 80
Bsmt Depth: 59
Energy Method: Prescriptive
Gross Area: 7,617 sq ft
Occupiable Area: 7,591 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 THERETO; (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 (Signature)
APPLICANT'S ORIGINAL SIGNATURE
6/4/2021
DATE SIGNED

FOR OFFICE USE ONLY CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

AGENCIES REQUIRED/APPROVALS: PR, DPZ, DED, Health, SFA, CID
SUBMITTAL FEES: 150
PAYMENT: 3050
ACCEPTED BY: [Signature]

Record Detail * (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Misc/Tanks	B22001433	04/18/2022
Description of Work		
SFD/INSTALL (1) 1000 UNDERGROUND PROPANE TANK		

[check spelling](#)

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type	
1942	DAVIS BRANCH	RD	
Unit Type	Unit #	X Coordinate	Y Coordinate
--Select--		-76.86595	39.32002
City	State	Zip Code	Primary
WOODSTOCK	MD	21163	Yes

Approved 4/22/22
M

Parcel * (This section is required.)

Search Reset Clear Get Address & Owner

GIS ID *	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Plan Area
930159	225,287	1.28	105300	105300	0	RURAL
Legal Description						
LOT 27 1.284 A[]1942 DAVIS BRANCH ROAD[]MYRTUE PROPERTY INCL RSB						

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
	27	603000	5	6			
Plan Area	State Tax Id	Subdivision Name					
	1403352617	Myrtue Property					
Section	Area	Tax Map					
		11					
Grid	Zoning District	ADC Map					
11-19	RC-DEO	4695-B9					
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 *

MUSHTAQ HAMMAD

Address Line 1

9322 MILBROOK RD

Address Line 2

Address Line 3

Mail City

ELLICOTT CITY

Mail State

MD

Mail Zip Code

21042

Phone

443-256-8906

Primary

Yes

E-mail

4/21/22 - Contacted Dixie Land ARG and requested revised plan w/ acceptable setbacks to well & septic. @

4/22/22 - plan was resized. Setbacks ok. - @

Cell Number Fax Number

Professionals (This section is not required.)

Search Reset Clear

License # * 20100100429	Business Name DIXIE LAND ENERGY LLC		
License Type * Propane Gs	First Name BASIL	Middle Name STEPHEN	Last Name PERRY
Primary Yes	Address Line 1 281 EAST MAIN STREET		
	Address Line 2 		
	City RISING SUN	State MD	ZIP Code 21911-0000
	Phone 1 4434144940	Phone 2 	Fax
	E-mail 		

Applicant (This section is not required.)

Search As Owner As Lic. Prof As Contact

Type * Applicant	First Name BASIL	MI 	Last Name STEPH PERRY
Relationship --Select--	Full Name 		
Primary Yes	Organization Name DIXIE LAND ENERGY LLC		
	Street Address 281 EAST MAIN STREET		
	Address Line 2 		
	City RISING SUN	State MD	Zip Code 21911 000
	Phone 4434144940	Cell 	Fax
	E-mail * Inickle@dixielandenergy.com		

Addtl Info

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

TANK INFORMATION

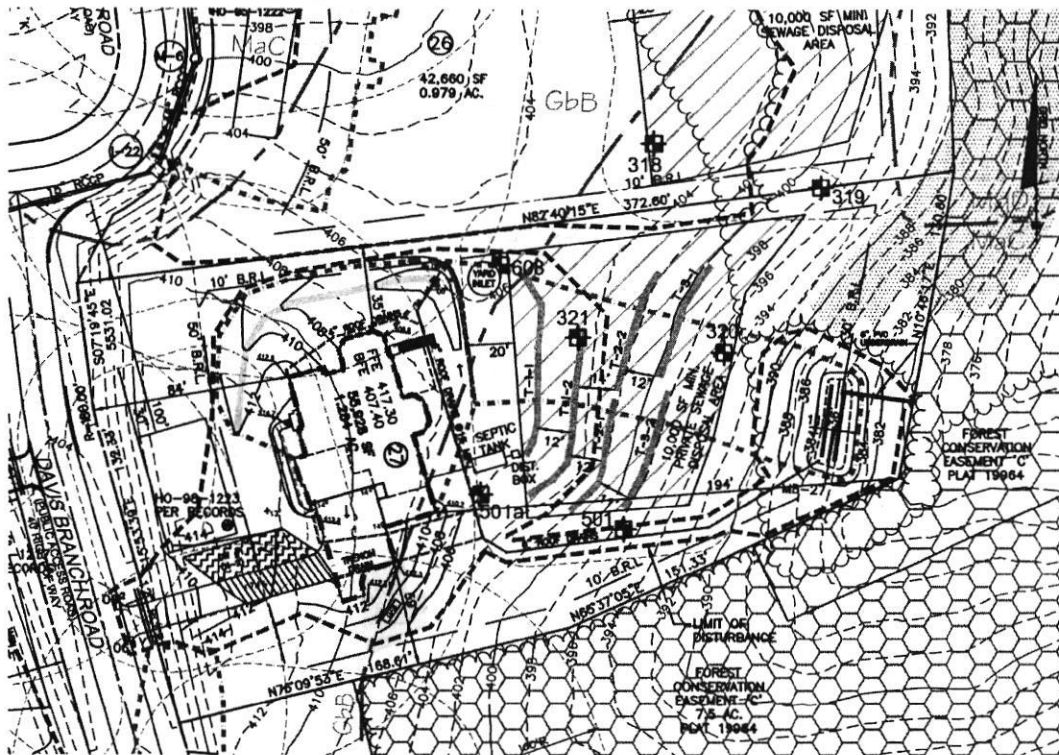
RESIDENTIAL TANK INFORMATION

Capital Project-No Fee * <input type="radio"/> Yes <input checked="" type="radio"/> No	Capital Project Number 	Fee Exempt * <input type="radio"/> Yes <input checked="" type="radio"/> No	Roadside Tree Project Permit * <input type="radio"/> Yes <input checked="" type="radio"/> No	Roadside Tree Permit #
Existing Use SFD	Number of Tanks Installed * 1	Number of Tanks Removed * 0		
Water Supply Private	Sewage Disposal Private	Expiration Date 10/18/2022	Relocate Existing Tank * 0	

PAYMENT INFORMATION

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

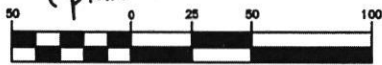


PLAN VIEW

1" = 50'

ESD STORMWATER MANAGEMENT SUMMARY TABLE													
Pe= 1.80		inches		Qe= 0.18		inches		ESDv= 689		cf		Rv= 0.26	
Practice	#	DA to practice	Imp Area to practice	Af (s.t.)		ESDv		Rev (AC)		Ownership			
				Required	Provided	2% DA?	Required	Provided	Pe Provided	Required	Provided		
(M-6) Micro-Bioretenion	#27	17.947	4.109	359	406	PASS	517	558	1.8	172.33	175.93	Private	
Depth of Stone: 13 inches													
Dneway Disconnection:		509 s.f.		Treated Rainfall:		1.0 inch		Converted to Volume:		42.4 c.f.			

Approved for 1p tank B22001433
(plan not to scale but setbacks ok)



(IN FEET)
1 inch = 50 ft.

4/22/22

BUILDER'S DATA
 FINISHED FLOOR: 417.3
 BASEMENT FLOOR: 407.4
 TOP OF WALL: 416.1
 BASEMENT SUBGRADE: 406.5
 GARAGE FLOOR: 414.3
 GARAGE LIP: 414.0

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 A SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 & (F) 410-465-6844
 WWW.BEI-CIVILENGINEERING.COM

GENERAL NOTES

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR THE MYRTUE PROPERTY, PLAT No. 23865. 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-21-TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS F-08-104, 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 WAVED.
5. THE EXISTING WELL SHOWN ON THIS PLAN, HO-98-1223, WAS FIELD LOCATED BY DMV, 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 ONE MICRO-BIORETENTION (MDE M-6) AND NON-ROOFTOP DISCONNECTIONS (MDE N-2).
9. RAINWATER SHALL BE CONVEYED TO THE SWM FACILITY WITH 4" OR 6" ROOF LEADERS AND YARD DRAINS, AS SHOWN.

LEGEND

- PROPOSED CONTOURS
- EXISTING CONTOURS
- EXISTING PRIVATE SEWAGE DISPOSAL AREA
- EXISTING WELL BOX
- PROPOSED TREELINE
- EXISTING TREELINE
- SOILS MAP SYMBOL
- SOILS DELINEATION LINE
- PERC TEST PASSED
- PERC TEST FAILED
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY EROSION CONTROL MATTING

220' off rear
 35' off left
 75' off right
 130' off front
 85' off septic 80'
 120' off well - 80'
 25' off house

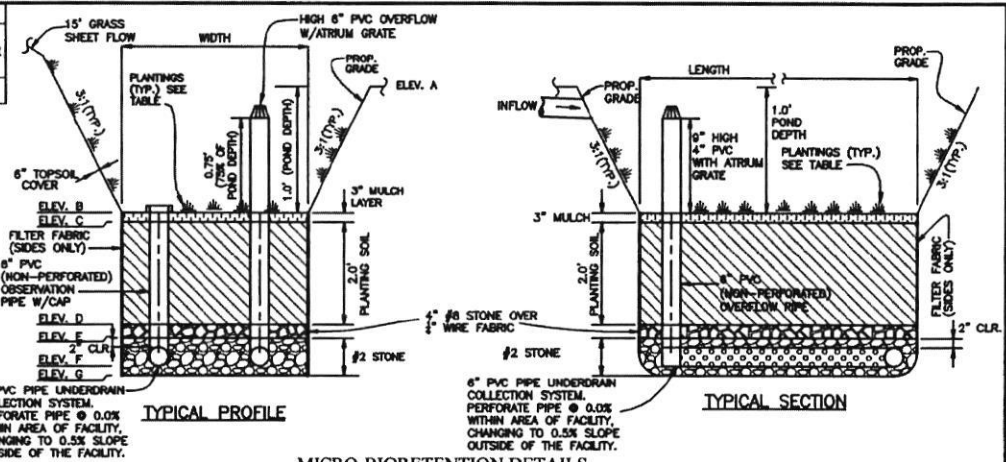
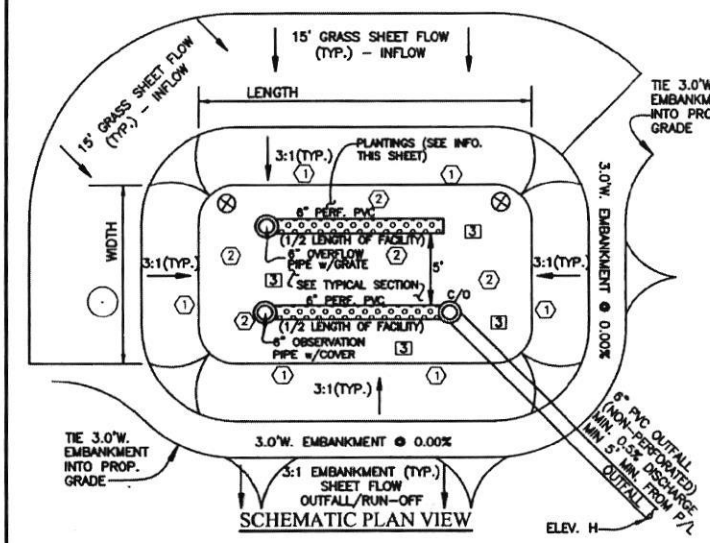
Property lines

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.

PROJECT:		MYRTUE PROPERTY LOT 27	
LOCATION: TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DED 1942 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352404			
TITLE:		BUILDING PERMIT PLAN	
HOUSE TYPE: CUSTOM - KEYSTONE HOMES			
DATE:	MAY, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	1 OF 2

1942 Davis Branch Rd
Woodstock, MD

ON-LOT BIORETENTION DIMENSIONS														
Practice	#	A	B	C	D	E	F	G	H	LENGTH	WIDTH	FILTER AREA	PLANTINGS	LINER
(M-6) Micro-Bioretenbon	27	384.00	383.00	382.75	380.75	380.42	379.92	378.84	379.70	36	11	406	14 2 3	NO



MICROBIORETENTION PLANTING SCHEDULE

- (PLANTING SPECIES AND DENSITY CAN BE CHANGED OR SUBSTITUTED BY A LANDSCAPE ARCHITECT OR QUALIFIED DESIGNER)
- ① IRIS FULVA (COPPER IRIS)
 - ② LOBELIA CARDINALIS (CARDINAL FLOWER)
 - ③ RUDBECKIA SUBTANTOSA (SWEET CONEFLOWER)
 - ⊗ CALLUNA VULGARIS (HEATHER) (1 PER FACILITY)
 - ACER GINNALA (ARMUR MAPLE) (1 PER FACILITY)

MICROBIORETENTION PLANTING DATA

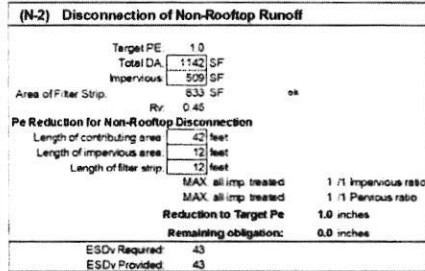
1. PLANTINGS WITHIN THE PONDING AREA OF THE FACILITY ARE TO BE OF A MEDIUM TO HIGH WATER TOLERANCE.
2. PLANTINGS ALONG THE PERIMETER (BERM) AREA OF THE FACILITY ARE TO BE OF A LOW TO MEDIUM WATER TOLERANCE.
3. AVOID PLANTINGS WITH EXCESSIVE ROOT MASS IN POND AREA OF THE RAIR GARDEN NEAR O.B. PIPE AND UNDERDRAIN.

MICRO-BIORETENTION DETAILS

- OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)
- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A-4.1 AND 2.
 - THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
 - THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
 - THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

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 80-85% 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. 58 0.375" TO 0.750"	
UNDERDRAIN PIPING	F756, 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-4112 (TENSILE STRENGTH 1,100 LB., ELONGATION 200%) ASTM-D-824 (TEAR RESISTANCE - 150 LB./IN) ASTM-D-4771 (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 128LB) ASTM-D-4632 (TENSILE STRENGTH 300 LB)		



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.

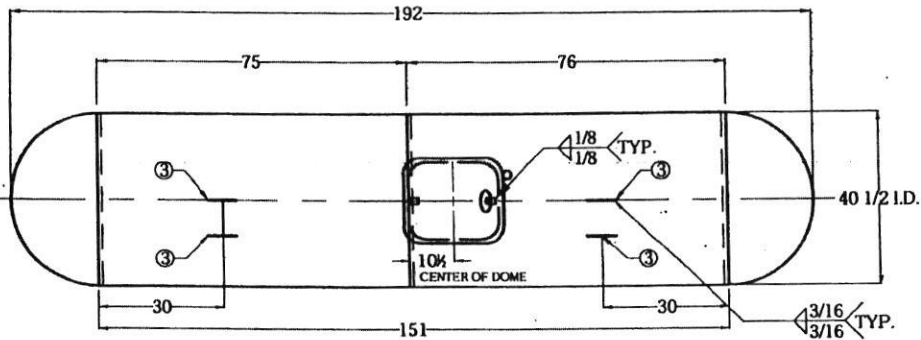
OWNER/BUILDER:
KEYSTONE CUSTOM HOMES, INC.
227 GRANITE RUN DR.
SUITE 100
LANCASTER, PA 17601
717-464-9060

PROJECT:	MYRTUE PROPERTY LOT 27	
LOCATION:	TAX MAP: 10, GRID: 24, PARCEL: 226, ZONED: RC-DEO 1942 DAVIS BRANCH RD, WOODSTOCK, MD 21183 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352404	
TITLE:	BUILDING PERMIT PLAN	
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES	
DATE:	MAY, 2021	PROJECT NO. 2099
SCALE:	AS SHOWN	DRAWING 2 OF 2

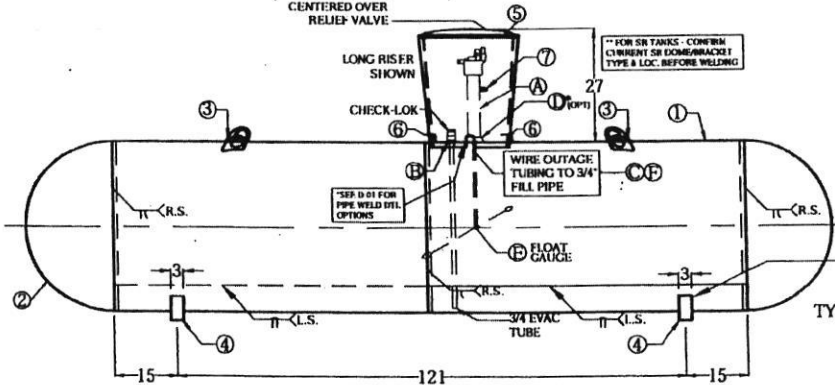
BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-8105 A (F) 410-465-8644
WWW.BE-CIVILENGINEERING.COM

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.

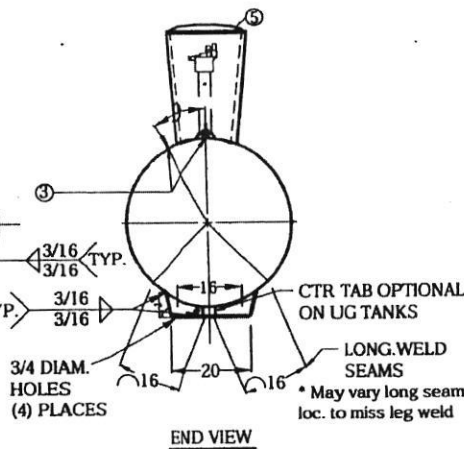
THIS VESSEL IS DESIGNED FOR THE STORAGE OF LIQUEFIED PETROLEUM GAS ONLY



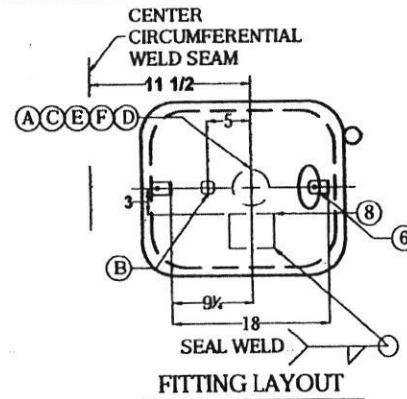
TOP VIEW
SLOTTED HOLE CENTERED OVER RELIEF VALVE



SIDE ELEVATION



END VIEW



FITTING LAYOUT

SHORT RISER TANKS MUST HAVE DT LENGTH UPDATED TO 17.5

SEE D-01 FOR ANY UNSPECIFIED WELD DETAILS

CERTIFIED BY: QUALITY STEEL CORPORATION
CLEVELAND, OH - FREMONT, OH - WEST JORDAN, UT

MAX. ALLOW. WORK. PRESS. 250 PSI AT 400 °F.
M.D.M.T. -20 °F. AT 250 PSI

YEAR BUILT 201 SER. NO. *
U W. RT4 201

LENGTH 192 IN. OUTSIDE DIA. 41 IN.
HEAD THK. 203 IN. SHELL THK. 239 IN.
LINEER UQ7 SURFACE AREA 172 SQ. FT.
GROUND TYPE UQ7 HEAD D.R. HEMI WATER CAPACITY 1000 GALLONS

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 - 60% FULL AT 50°F. D.T. - 121.3 IN.

DATA PLATE DETAIL

GENERAL NOTES:

- LIFTING LUGS DESIGNED FOR TOTAL LIFTING WEIGHT OF 2700#
- TOTAL EMPTY WEIGHT IS 1800#
- 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 WITH OUT NOTICE. (NON-PRESSURE RETAINING COMPONENTS ONLY)
- THREADS OF ALL FITTINGS TO BE COATED WITH COMPOUND SUITABLE FOR USE WITH LP GAS.
- FLOAT GAUGE TO BE INSTALLED WITH FLOAT ARM 45° OFF LONGITUDINAL CENTERLINE OF TANK.
- DOUBLE LIFTING LUGS ON LONG RISER TANKS ONLY

GENERAL SPECIFICATIONS

WATER CAPACITY (GALLONS)	1000
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.)	172
RELIEF VALVE SETTING (PSIG)	250
RELIEF DISCHARGE RATE - (CFM REQ'D.)	1096
HEAT TREATMENT NOT REQUIRED	
CODE:	ASME SECTION VIII DIV. I
STANDARDS:	UNDERWRITERS LABORATORIES INC. MH-7203 N.F.P.A. 58 LP GAS CODE
MATERIAL SPECS.: TANK FLANGES	SA-105 or SA-181
ADAPTOR	SA-105
PIPE	SA-53B OR SA106B
HEAT TREATMENT NOT REQUIRED	

1000 W.G. UNDERGROUND PROPANE TANK-TYPE-UQ7 (FORMERLY AWT-UG)

QUALITY STEEL CORPORATION

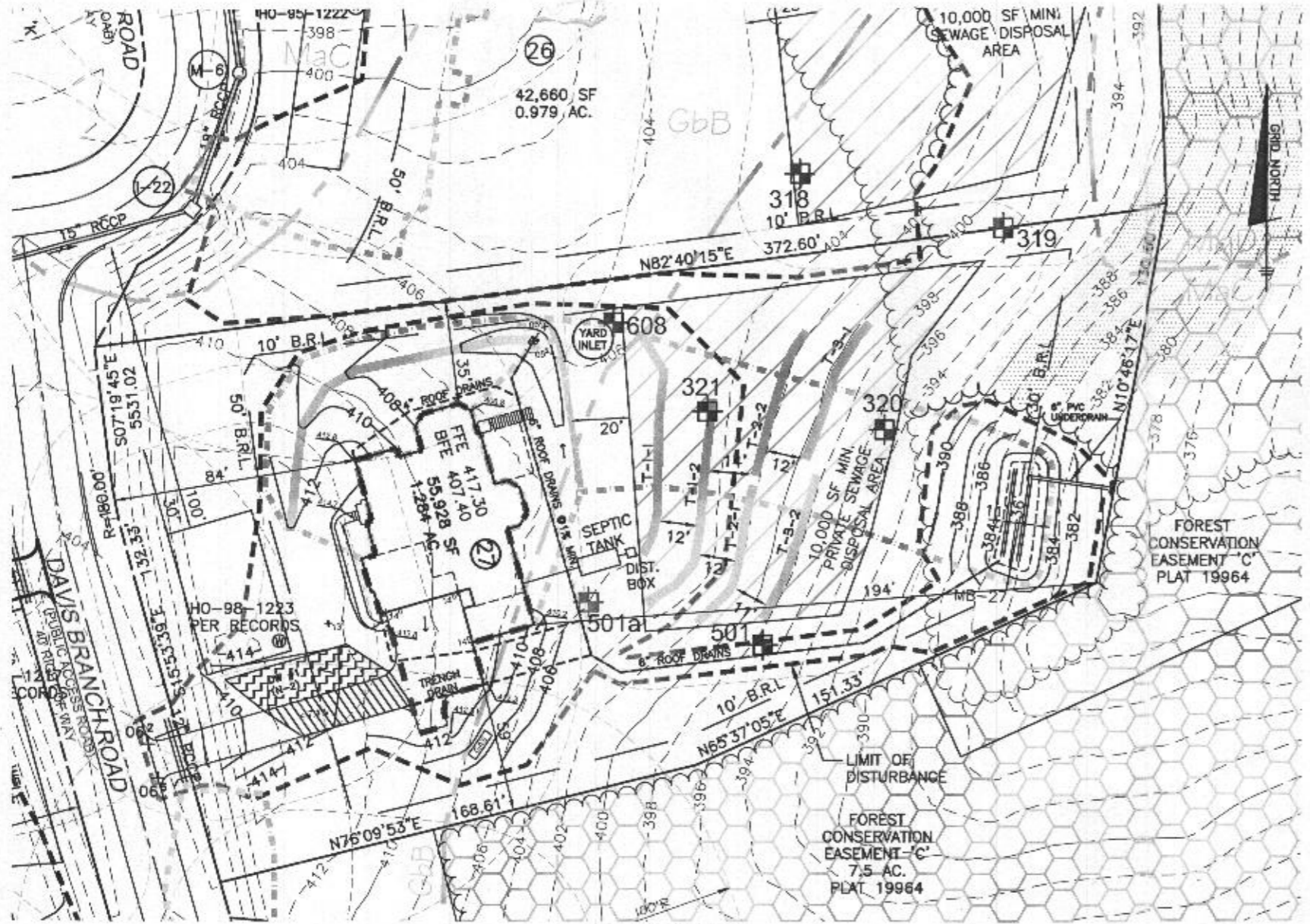
PART NO: 0110003X SHORT RISER
0110004X LONG RISER

MARK	QTY.	SIZE	TYPE	FITTINGS	SERVICE	MARK	QTY.	DESCRIPTION	DWG. NO.
				REGO					
A	1	2 1/2	SCREEN NO PIPE T.O.E. 3/4\"/>						

REV.	BY:	DESCRIPTION	DATE:
23	CDH	DELETED DOME LUGS, ADDED SNAP LOCKS	9/3/02
24	CDH	REPOSITIONED SNAP-LOCK DETAIL	10/16/02
25	CDH	ADDED NOTE FOR SLC IN SIDE ELEVATION	3/11/03
26	CDH	ADDED FLOAT GAUGE DESCRIPTIONS	5/8/03
27	CDH	CORRECTED SHELL LENGTH	11/12/03
28	who	ADDED SA414C SHELL OPTION	9/17/04
29	who	ADDED OPTION FOR SA181 FLANGES	8/4/05
30	who	REVISED COMPANY NAME	12/08/07
31	who	CHANGED TO NARROW PLATE	03/09/09
32	who	UPDATE NAME PLATE	08/08/12
33	bcs	2 PLATE SHELL AND UPDATE NAME PLATE	09/13/13
34	TWV	UPDATED HEAD & PLY THICKNESS & NAMEPLATE. UPDATE TO QSC STD COMPONENTS.	06/19/15

UG STANDARD

DATE: 01 / 03 / 00	DESIGN BY: RAC	APPROVED BY: TWV	REVIEW: 34	DRAWING NO: R - 1000MW
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PLAN VIEW
1" = 50'

GENERAL NOTES

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR THE MYRTUE PROPERTY, PLAT No. 23865. 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-21- 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-98-1223, 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 ONE MICRO-BIORETENTION (MDE M-6) AND NON-ROOFTOP DISCONNECTIONS (MDE N-2).
9. RAINWATER SHALL BE CONVEYED TO THE SWM FACILITY WITH 4" OR 6" ROOF LEADERS AND YARD DRAINS, AS SHOWN.

LEGEND

- 400 PROPOSED CONTOURS
- 398 EXISTING CONTOURS
- EXISTING PRIVATE SEWAGE DISPOSAL AREA
- EXISTING WELL BOX
- PROPOSED TREELINE
- EXISTING TREELINE
- SOILS MAP SYMBOL
- SOILS DELINEATION LINE
- PERC TEST PASSED
- PERC TEST FAILED
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY EROSION CONTROL MATTING

Approved Septic System Plan
Howard County Health Department
5-bedroom SFD
OSDS approved for 6 bedrooms

R. Beik
Signature
8/5/2021
Date
B21002479

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.



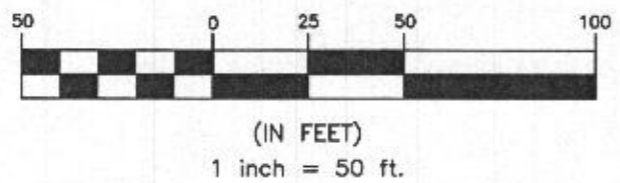
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Practice	#	DA to practice	Imp Area to practice	Qe= 0.18 inches		ESDv= 689 cf	Rv= 0.26	Rev (A ^c)		Ownership		
				Required	Provided			Required	Provided			
(M-6) Micro-Bioretenion	#27	17,947	4,109	359	406	PASS	517	558	1.9	172.33	175.93	Private
		Depth of Stone:						13 inches				
Driveway Disconnection:		509 s.f.		Treated Rainfall:		1.0 inch		Converted to Volume:		42.4 c.f.		

BUILDER'S DATA

FINISHED FLOOR:	417.3
BASEMENT FLOOR:	407.4
TOP OF WALL:	416.1
BASEMENT SUBGRADE:	406.5
GARAGE FLOOR:	414.3
GARAGE LIP:	414.0



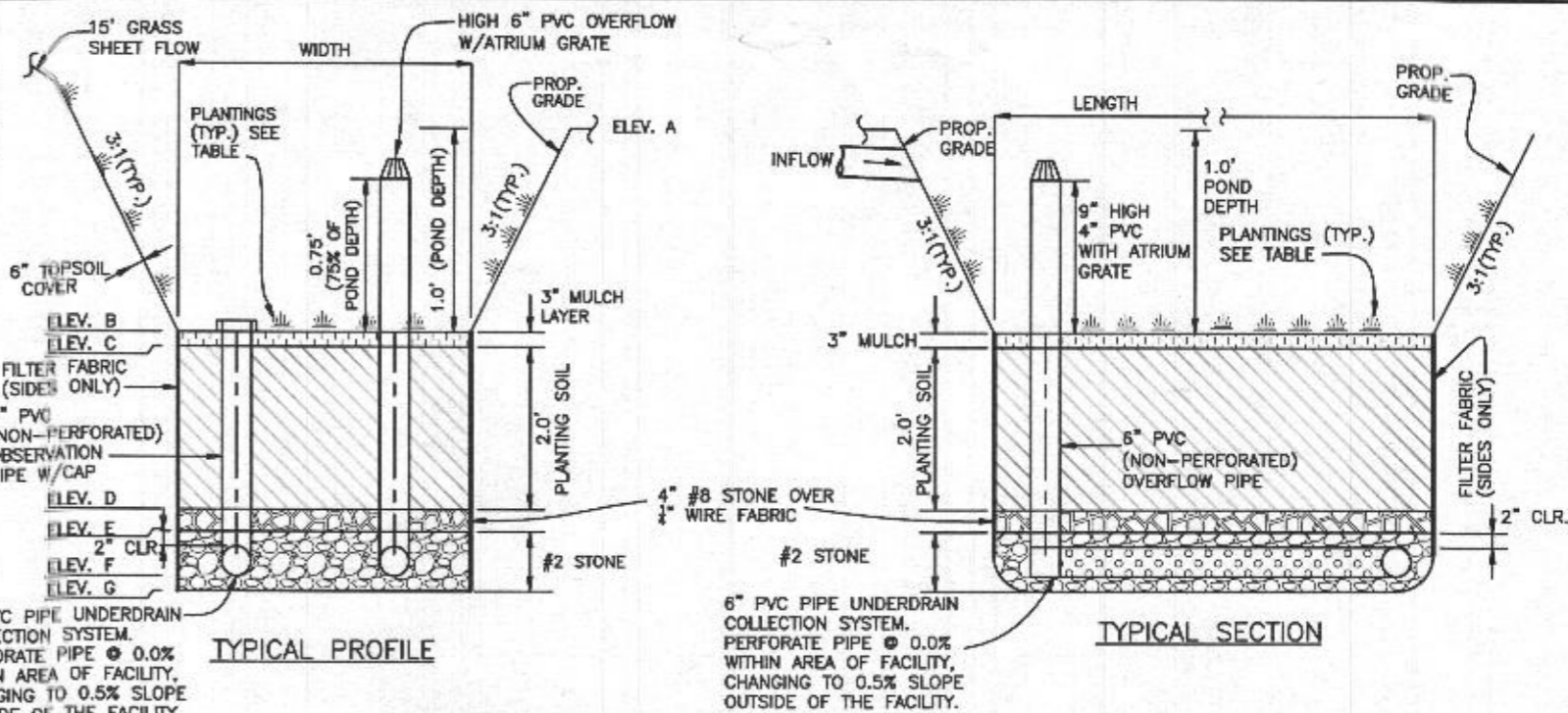
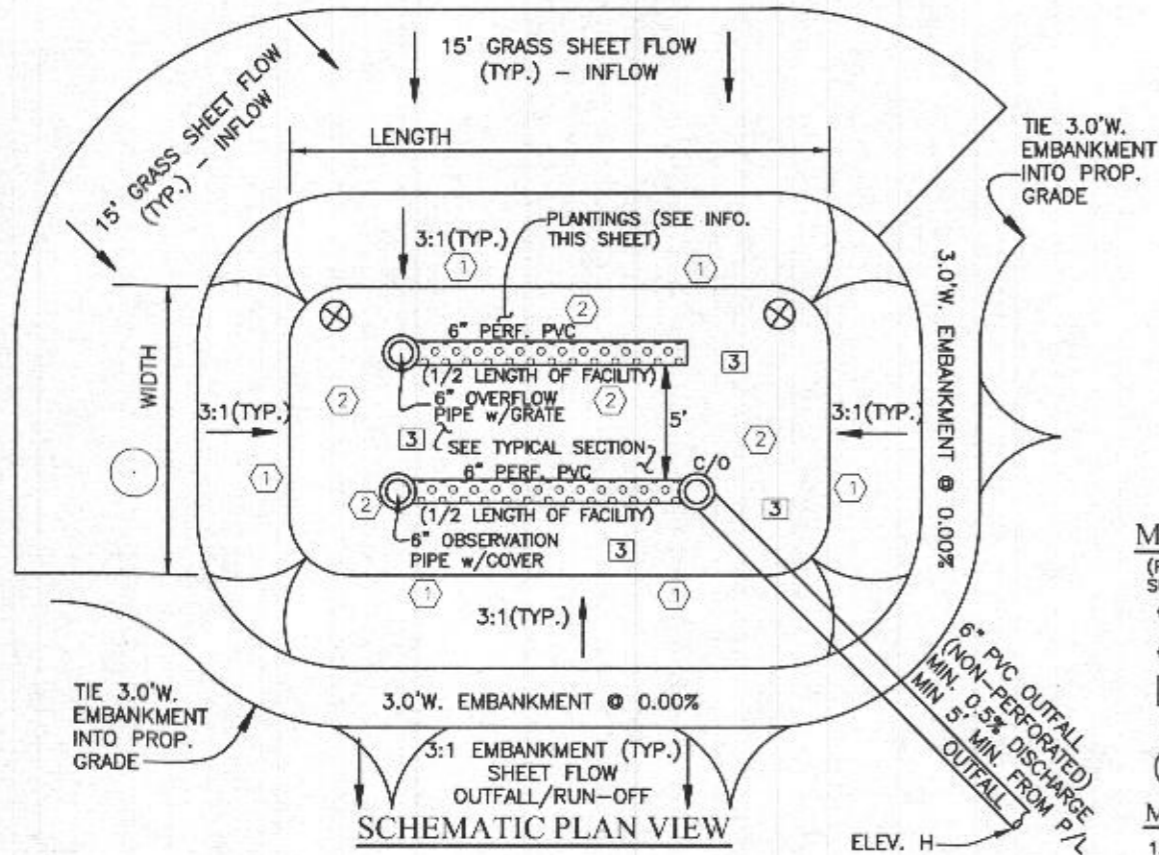
OWNER/BUILDER:
KEYSTONE CUSTOM HOMES, INC.
227 GRANITE RUN DR.
SUITE 100
LANCASTER, PA 17601
717-464-9060

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 27		
LOCATION:	TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1942 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352404		
TITLE:	BUILDING PERMIT PLAN		
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES		
DATE:	MAY, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	1 OF 2

ON-LOT BIORETENTION DIMENSIONS

Practice	#	ON-LOT BIORETENTION DIMENSIONS								LENGTH	WIDTH	FILTER AREA	PLANTINGS			LINER
		A	B	C	D	E	F	G	H				①	②	③	
(M-6) Micro-Bioretenion	27	384.00	383.00	382.75	380.75	380.42	379.92	378.84	379.70	36	11	406	14	18	14	NO



MICROBIORETENTION PLANTING SCHEDULE

- (PLANTING SPECIES AND DENSITY CAN BE CHANGED OR SUBSTITUTED BY A LANDSCAPE ARCHITECT OR QUALIFIED DESIGNER)
- ① IRIS FULVA (COPPER IRIS)
 - ② LOBELIA CARDINALIS (CARDINAL FLOWER)
 - ③ RUDBECKIA SUBTOMENTOSA (SWEET CONEFLOWER)
 - ⊗ CALLUNA VULGARIS (HEATHER) (1 PER FACILITY)
 - ACER GINNALA (ARMUR MAPLE) (1 PER FACILITY)

MICROBIORETENTION PLANTING DATA

1. PLANTINGS WITHIN THE PONDING AREA OF THE FACILITY ARE TO BE OF A MEDIUM TO HIGH WATER TOLERANCE
2. PLANTINGS ALONG THE PERIMETER (BERM) AREA OF THE FACILITY ARE TO BE OF A LOW TO MEDIUM WATER TOLERANCE
3. AVOID PLANTINGS WITH EXCESSIVE ROOT MASS IN POND AREA OF THE RAIN GARDEN NEAR O.B. PIPE AND UNDERDRAIN.

MICRO-BIORETENTION DETAILS

- NOT TO SCALE
- OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)
- A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.
 - B. THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
 - C. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
 - D. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

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 60-65% 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 PS2B 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:	1142 SF
Impervious:	509 SF
Area of Filter Strip:	833 SF ok
Rv:	0.45
Pe Reduction for Non-Rooftop Disconnection	
Length of contributing area:	42 feet
Length of impervious area:	12 feet
Length of filter strip:	12 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:	43
ESDv Provided:	43

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.

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

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 (P) 410-465-6105 • (F) 410-465-6844
 WWW.BEI-CVILENGINEERING.COM

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
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PROJECT:	MYRTUE PROPERTY LOT 27		
LOCATION:	TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1942 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352404		
TITLE:	BUILDING PERMIT PLAN		
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES		
DATE:	MAY, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	2 OF 2