

Record Detail (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Misc/Pool Spa	B23000593	02/24/2023

Description of Work  
 SFD/ Install 20 x44 inground swimming pool, 3.5 to 5.0 deep. Filled by tanker truck, cartridge filter, pool W FENCE TO CODE

[check spelling](#)

Address (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type	
14128	HOWARD	RD	
Unit Type	Unit #	X Coordinate	Y Coordinate
--Select--		-77.0005	39.24553
City	State	Zip Code	Primary
DAYTON	MD	21036	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
1063011	31	3.18	261300	0	0	RURAL

Legal Description  
 LOT 2 3.1806 A [ ] 14128 HOWARD RD [ ] STUDDARD PROPERTY

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
	2	605101	5				
Plan Area	State Tax Id	Subdivision Name					
	1405593797	Studdard Property					
Section	Area	Tax Map					
		27					
Grid	Zoning District	ADC Map					
27-6	RC-DEO	4932-K1					
SDP No.	Final Plan No.	WP File No.					
	ECP-11-005						
Record Plat No.	WS Contract No.	FDP No.	Primary				
21838			Yes				
Owner Occupied	Year Built	Historic District					
<input type="radio"/> Yes <input checked="" type="radio"/> No		<input type="radio"/> Yes <input checked="" type="radio"/> No					
Historic District Registry No.	Stat Area	Flood Plain					
	5-01	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Building No							

Owner (This section is required.)

Search Reset Clear

Name  
 EZEKWESILI ALFRED  
 Address Line 1  
 2627 TOBY LANE  
 Address Line 2

Address Line 3

Mail City	Mail State	Mail Zip Code
ELLCOTT CITY	MD	21042
Phone	Primary	
410-686-2701	Yes	
E-mail		

Cell Number Fax Number

**Professionals** (This section is not required.)

<b>License #</b>	<b>Business Name</b>		
71753	HERITAGE ELITE LLC		
<b>License Type</b>	<b>First Name</b>	<b>Middle Name</b>	<b>Last Name</b>
MHIC Co	▼ MICHAEL		SHAFFERY
<b>Primary</b>	<b>Address Line 1</b>		
Yes	▼ 8335 PULASKI HIGHTWAY		
	<b>Address Line 2</b>		
	<b>City</b>	<b>State</b>	<b>ZIP Code</b>
	ROSEDALE	MD	21237
	<b>Phone 1</b>	<b>Phone 2</b>	<b>Fax</b>
	410-808-6988		
	<b>E-mail</b>		
	Dustin@elitepools.com		

**Applicant** (This section is not required.)

Search As Owner As Lic. Prof As Contact

<b>Type</b>	<b>First Name</b>	<b>MI</b>	<b>Last Name</b>
Applicant	▼ MICHAEL		SHAFFERY
<b>Relationship</b>	<b>Full Name</b>		
Applicant	▼		
<b>Primary</b>	<b>Organization Name</b>		
Yes	▼ HERITAGE ELITE LLC		
	<b>Street Address</b>		
	8335 PULASKI HIGHTWAY		
	<b>Address Line 2</b>		
	<b>City</b>	<b>State</b>	<b>Zip Code</b>
	ROSEDALE	MD	21237
	<b>Phone</b>	<b>Cell</b>	<b>Fax</b>
	410-808-6988		
	<b>E-mail</b>		
	Dustin@elitepools.com		

**Addtl Info**

<b>Est Construction Cost</b>	<b>Housing Units</b>	<b>Number of Buildings</b>	<b>Public Owned</b>
58000	0	0	No
<b>Construction Type</b>			
434 - Additions, Alterations and Conversions - Residential			▼

**POOL INFORMATION**

MISCELLANEOUS POOL INFORMATION

<b>Capital Project-No Fee</b>	<b>Capital Project Number</b>	<b>Fee Exempt</b>	<b>Water Supply</b>	<b>Sewage Disposal</b>
<input type="radio"/> Yes <input checked="" type="radio"/> No		<input type="radio"/> Yes <input checked="" type="radio"/> No	Private	Private
<b>Existing Use</b>	<b>Type of Pool or Spa</b>	<b>Pool Safety Device</b>	<b>Electrical Permit Number</b>	<b>Expiration Date</b>
Other - See Description of Work	▼ Indoor Pool Spa	▼ Fence	▼ E23001177	9/4/2023

**Related Records**

Showing 1-2 of 2

Permit Number	Record Type Alias	Status	Number	Street Name	Opened Date	Description
B23000593	Residential Pool or Spa Permit	Review In Process	14128	HOWARD	02/24/2023	SFD/ Install 20 x44 inground swimming pool, 3.5 to 5.0 deep.

Submit Cancel



**RECEIPT**

Howard County, MD  
HOWARD COUNTY HEALTH DEPARTMENT  
ASCEND ONE BUILDING  
Columbia, MD 21045  
8930 STANFORD BLVD

**Application:** WS-SP-APP-22-00280  
**Application Type:** EnvHealth/Well and Septic/Sewage Disposal System/Application  
**Address:** 14128 HOWARD RD, DAYTON, MD 21036

---

Receipt No.	5303					
Payment Method	Ref Number	Amount Paid	Payment Date	Cashier ID	Received	Comments
Check	77392	\$396.00	11/17/2022	SMARTIN		PREVIOUSLY PAID 10/11/22 RECEIPT # 572196

**Owner Info.:** ALFRED AND JANE EZEKWESILI  
2627 TOBY LANE  
ELLCOTT CITY, MD 21042

**Work Description:** STUDDARD PROPERTY LOT 2

R197 past old Fred  
on the left

Record Detail \* (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Misc/Tanks	B22004496	12/08/2022
Description of Work		
SFD/ INSTALL (1) UNDERGROUND 1000 PROPANE TANK AND RUN LINE TO HOUSE		

[check spelling](#)

Address \* (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type	
14128	HOWARD	RD	
Unit Type	Unit #	X Coordinate	Y Coordinate
-Select-		-77.0005	39.24553
City	State	Zip Code	Primary
DAYTON	MD	21036	Yes

Approved 12/14/22  
~~SA~~

Parcel \* (This section is required.)

Search Reset Clear Get Address & Owner

GIS ID *	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Plan Area
1063011	31	3.18	261300	0	0	RURAL
Legal Description						
LOT 2 3.1806 A.[ ]14128 HOWARD RD[ ]STUDDARD PROPERTY						

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
	2	605101	5				
Plan Area	State Tax Id	Subdivision Name					
	1405593797	Studdard Property					
Section	Area	Tax Map					
		27					
Grid	Zoning District	ADC Map					
27-6	RC-DEO	4932-K1					
SDP No.	Final Plan No.	WP File No.					
	ECP-11-005						
Record Plat No.	WS Contract No.	FDP No.		Primary			
21838				Yes			
Owner Occupied	Year Built	Historic District					
<input type="radio"/> Yes <input checked="" type="radio"/> No		<input type="radio"/> Yes <input checked="" type="radio"/> No					
Historic District Registry No.	Stat Area	Flood Plain					
	5-01	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Building No							

Owner \* (This section is required.)

Search Reset Clear

Name \*

ALFRED EZEKWESILI

Address Line 1

2627 TOBY LANE

Address Line 2

Address Line 3

Mail City

ELLICOTT CITY

Phone

443-877-2433

E-mail

Mail State

MD

Mail Zip Code

21042

Primary

Yes

Cell Number Fax Number

Professionals (This section is not required.)

License # \* 20100100429 Business Name DIXIE LAND ENERGY LLC

License Type \* Propane Gs  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

Phone 1 4434144940 Phone 2 Fax

E-mail

Applicant (This section is not required.)

As Owner As Lic. Prof As Contact

Type \* Applicant  First Name LouAnn MI Last Name Nickle

Relationship Applicant  Full Name LouAnn Nickle

Primary Yes  Organization Name DIXIE LAND ENERGY LLC

Street Address 281 EAST MAIN ST Address Line 2

City RISING SUN State MD Zip Code 21911

Phone 888-517-3680 Cell Fax

E-mail \* lnickle@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 \*  Yes  No Capital Project Number Fee Exempt \*  Yes  No Roadside Tree Project Permit \*  Yes  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 6/10/2023 Relocate Existing Tank \* 0

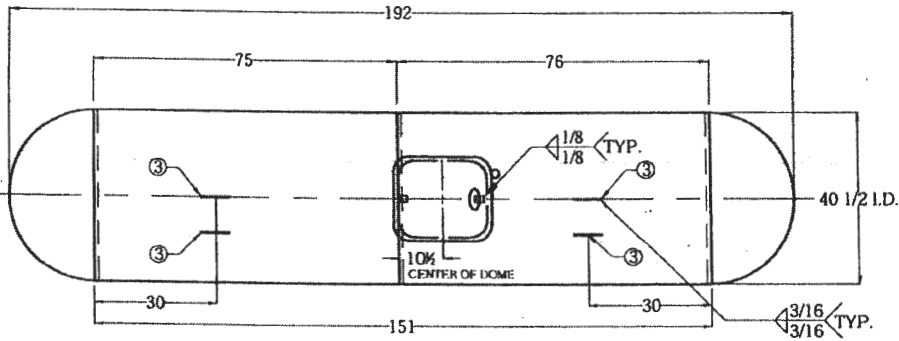
PAYMENT INFORMATION

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

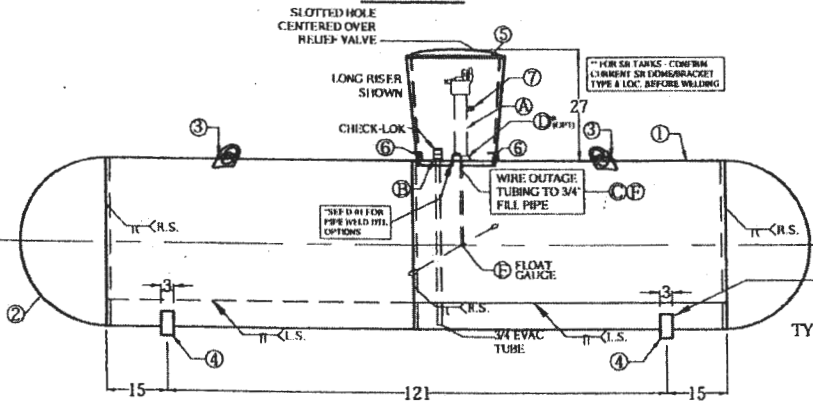
Submit Cancel



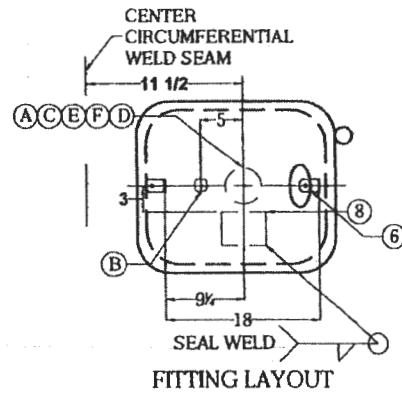
THIS VESSEL IS DESIGNED FOR THE STORAGE OF LIQUEFIED PETROLEUM GAS ONLY



TOP VIEW



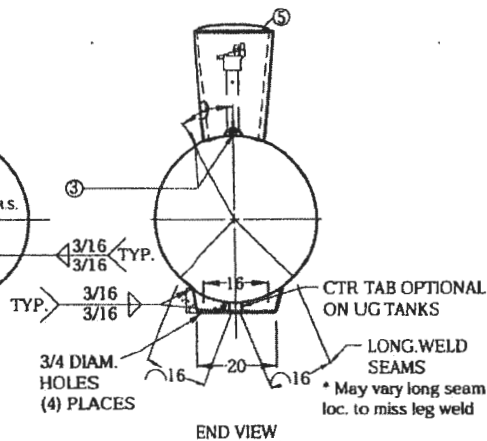
SIDE ELEVATION



FITTING LAYOUT

SHORT RISER TANKS MUST HAVE DT LENGTH UPDATED TO 17.5

SEE D-01 FOR ANY UNSPECIFIED WELD DETAILS



END VIEW

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

MAX. ALLOW. WORK PRESS. 250 PSI AT 400 °F.  
 M.O.M.T. -20 °F. AT 250 PSI  
 YEAR BUILT 201  
 U W. RFL 201 SER. NO. \*  
 LENGTH 192 IN. OUTSIDE DIA. 41 IN.  
 HEAD THK. 203 IN. SHELL THK. .239 IN.  
 UNDER GROUND TYPE UQ7 SURFACE AREA 172 SQ. FT.  
 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 - 80% FULL AT 50°F. D.T. 21.9 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 - SA53B 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
				REGO		
A	1	2 1/2	SCHED. 80 PIPE TO E. X 1/8\"/>			
(ALT.)	1	2 1/2	SCHED. 80 PIPE TO E. X 1/8\"/>			
B	1	3/4	2H FLG. W/ EVAC TUBE	007590JT	CHEK-LOK	
C	1	3/4	SCH. 40 PIPE (T.O.E.)		FILT. PIPING X 1/2\"/>	
(OPT.)	1	2 1/2	2H SOCKET WELD FLG.		RISER PIPE ATTACHMENT	
E	1	1 1/4	4 - BOLT Style		FLOAT GAUGE	
F	1	1/8	BRASS TUBE		OUTSIDE TUBE 17 1/2\"/>	

MARK	QTY.	DESCRIPTION	DWG. NO.
1	2	SHELL - 0.239\"/>	
2	2	HEADS - 40 1/2\"/>	
3	4	LIFTING LUGS	D - 63
4	2	TANK LEGS (SINGLE PIECE L/R)	D - 3
5	1	DOME	D-5 & D-47
6	2	DOME BRACKETS	D-30
7	1	ANODE ATTACHMENT	D-17
8	2	DATA PLATE, 1000 GAL., UG	D-60

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	3/1/03
26	CDH	ADDED FLOAT GAUGE DESCRIPTIONS	5/6/03
27	CDH	CORRECTED SHELL LENGTH	1/12/03
28	wlo	ADDED SA114G SHELL OPTION	8/17/04
29	wlo	ADDED OPTION FOR SA181 FLANGES	8/4/05
30	wlo	REVISED COMPANY NAME	12/08/07
31	wlo	CHANGED TO NARROW PLATE	03/09/09
32	wlo	UPDATE NAME PLATE	08/08/12
33	bis	2 PLATE SHELL AND UPDATE NAME PLATE. UPDATED HEAD & PLT THICKNESS & NAMEPLATE. UPDATE TO QSC STD COMPONENTS.	06/19/15

DATE: 01 / 03 / 00	DRAWN BY: RAC	APPROVED BY: TWV	SHEET NO: 34	REVISED BY: R - 1000MW
--------------------	---------------	------------------	--------------	------------------------

UG STANDARD

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

Date: 11/23/21

To: DAN SWINDER, PLAN REVIEW  
(Person's Name and Division)

From: Matt Shaffer, GYC Group Ltd (410) 984-3311  
(Your Name, Company Name and Telephone Number)

Subject: Project name EZEKUESILI RESIDENCE  
Project site address 14128 HOWARD ROAD DAYTON MD 21036  
Permit # B21004007 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
- Energy conservation calculations
- Copies of 3 Full Sets (be specific).
  - Health Department Request
  - DPZ/ DED Request
  - Applicant's Request
- Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # \_\_\_\_\_
- Other \_\_\_\_\_

**Contact Person Information: (Required)**

Matthew Shaffer  
Please Print Name

Telephone No: 410-984-3311

E-Mail Address: Matt@GYC Group Ltd. G

***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. 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 AKH

DILP 2021 NOV 23 AM 9:29

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

Date: 12-23-21  
To: Health  
(Person's Name and Division)  
From: Matt Shaffer GYC Group Ltd (410) 984-3311  
(Your Name, Company Name and Telephone Number)  
Subject: Project name Ezekwesili Residence  
Project site address 14123 Howard Rd  
Permit # B21004007 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  
 Energy conservation calculations  
 Copies of Plot Plan (be specific).  
 Health Department Request  DPZ/ DED Request  Applicant's Request  
 Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # \_\_\_\_\_  
 Other Added LOD Around Septic Tank and Field to Match/Red line/Grading

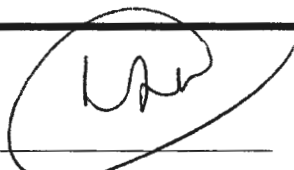
**Contact Person Information: (Required)**

Matthew Shaffer  
Please Print Name

Telephone No: 410-984-3311

E-Mail Address: matt@gycgroup Ltd.co

**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. 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.**

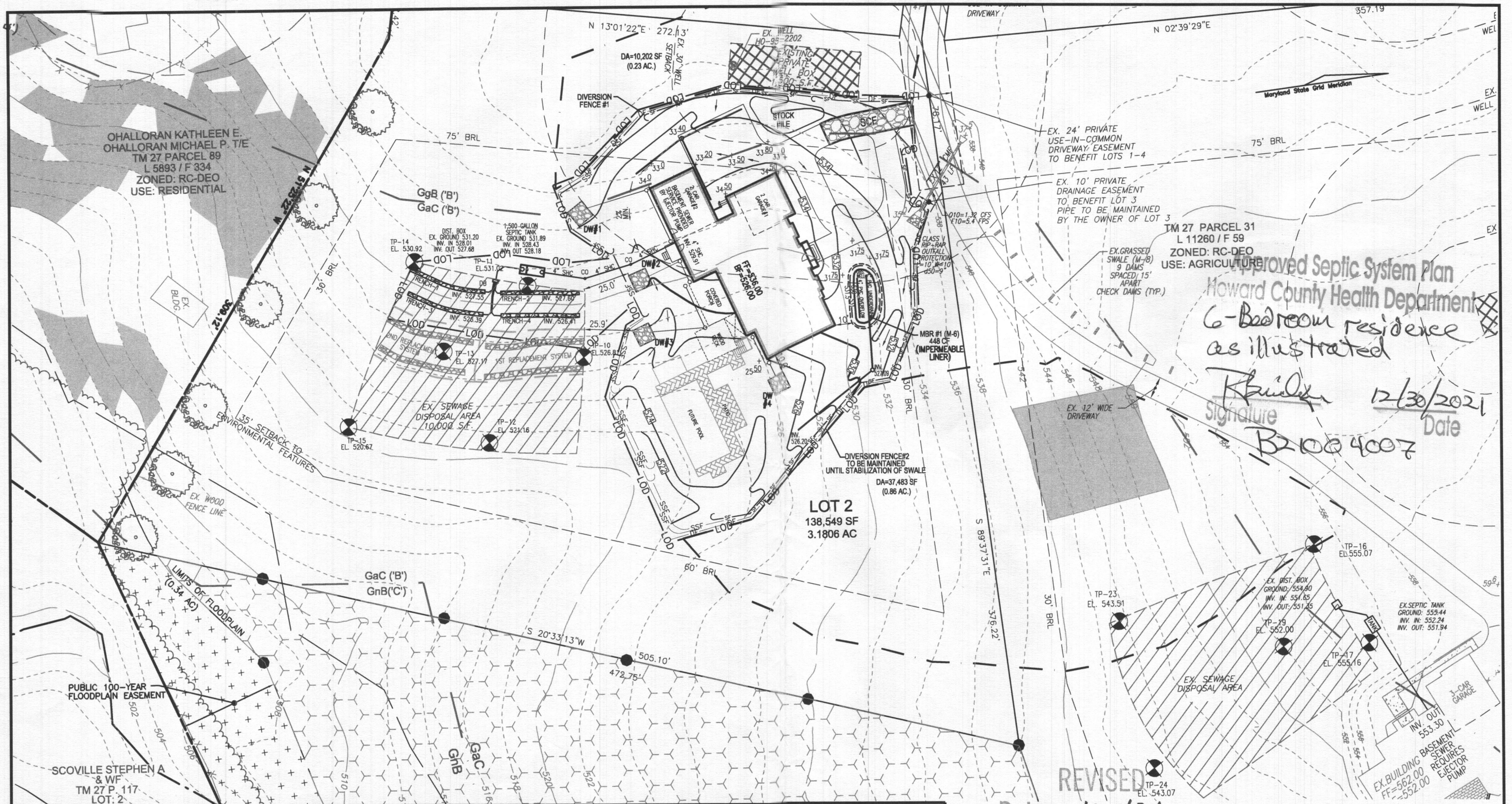
Received by 

White-Plan Review / Yellow-Applicant / Pink-Permit Division  
t:\Operations\Updated forms\transmit.frm - Rev. 04/2014

RECEIVED

DEC 23 2021

LICENSES & PERMITS  
DIVISION



Approved Septic System Plan  
 Howard County Health Department  
 6-Bedroom residence  
 as illustrated  
*Signature* 12/30/2021  
 Date  
 B21004007

**PLOT PLAN**  
**EZEKWESILI RESIDENCE**  
**LOT 2**  
**14128 HOWARD ROAD**

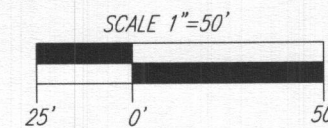
REF: ECP-11-005

ZONED: RC-DEO  
 HOWARD COUNTY, MARYLAND

REVISOR  
 Date: 12/23/21  
 Comments: B21004007  
 to show LOD near septic

**OWNER**

JONATHAN STUDDARD  
 AMY B. STUDDARD  
 14118 HOWARD ROAD  
 DAYTON, MD 21036  
 (443) 364-8075



**VOGEL ENGINEERING**

**TIMMONS GROUP**

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 2104  
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

SCALE 1"=50'  
 DRAWN BY KG  
 CHECKED BY RHV  
 DATE DECEMBER 2021  
 W. O. # 08-50  
 SHEET# 2 OF 4

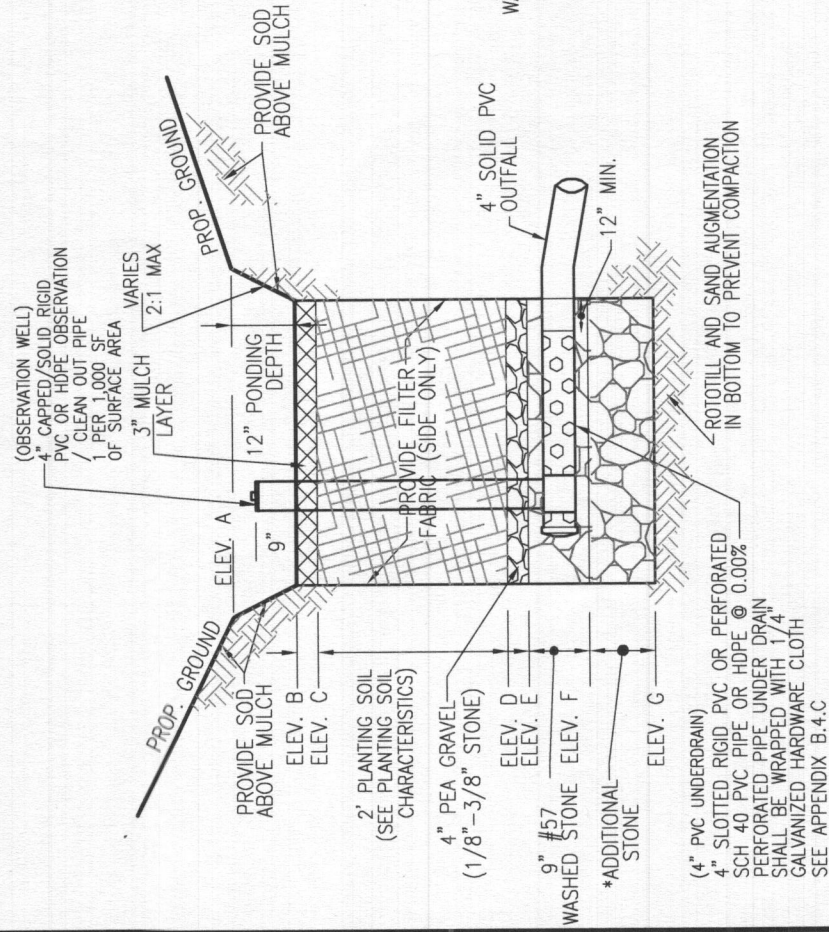
PARCEL: 31  
 TAX MAP: 27 GRID: 6  
 5TH ELECTION DISTRICT

O'HALLORAN KATHLEEN E.  
 O'HALLORAN MICHAEL P. T/E  
 TM 27 PARCEL 89  
 L 5893 / F 334  
 ZONED: RC-DEO  
 USE: RESIDENTIAL

TM 27 PARCEL 31  
 L 11260 / F 59  
 ZONED: RC-DEO  
 USE: AGRICULTURE

PUBLIC 100-YEAR  
 FLOODPLAIN EASEMENT

SCOVILLE STEPHEN A  
 & WF  
 TM 27 P. 117  
 LOT: 2  
 L 728 / F 68



### MICRO-BIORETENTION (UNDERDRAIN)

NOT TO SCALE

**MBR-1**  
 D.A. =  $8,800 \text{ SF} \cdot \text{IMP} = 1,665 \text{ I} = 19$   
 $R_v = 0.05 + (0.009)(19) = 0.22$   
 $\text{ESDv} = (8,800)(2)(0.22) / 12 = 407 \text{ CF (MIN.)}$

AREA ABOVE MULCH =  $(407 \text{ CF}) / (0.75) = 305 \text{ CF (MIN.)}$   
**AREA PROVIDED 448 CF**

#### "MICRO-BIORETENTION" PLANTING SCHEDULE NOTES:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AAN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HOWARD COUNTY PLANTING SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.
- MICROBIORETENTION AREAS ARE TO BE PLANTED BASED ON A MINIMUM DENSITY OF 1000 STEMS PER PLANTED ACRE (.0229 STEMS PER SQUARE FOOT). ABOVE PLANTING RATIOS ARE TO BE APPLIED TO THE AREAS PROVIDED IN THE ESDV SUMMARY.
- FILTER AREA SHALL BE 50% COVERED BY PLANTINGS AT FULL GROWTH

LEGEND/KEY	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
IG	2	ILEX GLABRA 'SHAMROCK'	1 GALLON	18" O.C.
IV	2	ITEA VIRGINICA 'HENRY'S GARNETT VIRGINIA SWEETSPICE'	1 GALLON	18" O.C.
HQ	2	HYDRANGEA QUERCIFOLIA OAKLEAF HYDRANGEA	1 GALLON	30" O.C.
LR	2	LEUCOTHEO RACEMOSA FETTERBUSH	1 GALLON	30" O.C.
PV	2	PANICUM VIRGATUM SWITCHGRASS	1 GALLON	36" O.C.
	20 SF	BAPTISIA AUSTRALIS FALSE INDIGO	4" POT	12"-15" O.C.

1. SF x 0.0229 STEMS PER SQUARE FOOT = PLANTS REQUIRED

#### MICRO-BIORETENTION FACILITY ELEVATIONS (M-6)

FACILITY	A	B	C	D	E	F	G	FACILITY SIZE
MBR-1	531.00	530.00	529.75	527.75	527.42	526.67	425.92	302 SF

#### OPERATION AND MAINTENANCE SCHEDULE FOR (M-6) MICROBIORETENTION AREAS

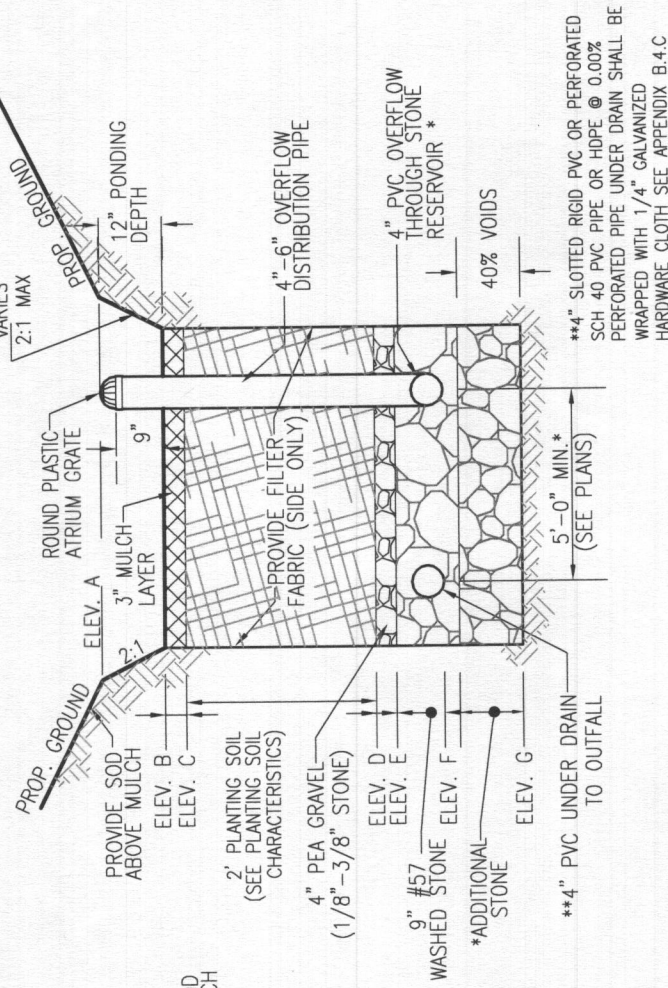
- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOL. II, TABLE A.4.1 AND 2.
- SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
- MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

#### MICROBIORETENTION NOTES:

- ONLY THE SIDES OF MICROBIORETENTION ARE TO BE WRAPPED IN FILTER FABRIC. FILTER FABRIC BETWEEN LAYER OR AT THE BOTTOM OF THE MICROBIORETENTION WILL CAUSE THE MBR TO FAIL, AND THEREFORE SHALL NOT BE INSTALLED.
- WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4" MESH (4x4) OR SMALLER GALVANIZED HARDWARE CLOTH.
- PROVIDE 5" MINIMUM SPACING BETWEEN UNDER DRAIN AND PERFORATED PIPE THROUGH STONE RESERVOIR OR SPACE PIPE EQUALLY ACROSS BOTTOM FOR SMALL BIOS. (SEE PLANS)

SCALE AS SHOWN  
 DRAWN BY \_\_\_\_\_ KG  
 CHECKED BY \_\_\_\_\_ RHV  
 DATE DECEMBER 2021  
 W. O. # 08-50  
 SHEET# 3 OF 4

PARCEL: 31  
 TAX MAP: 27 GRID: 6  
 5TH ELECTION DISTRICT



### MICRO-BIORETENTION (OVERFLOW)

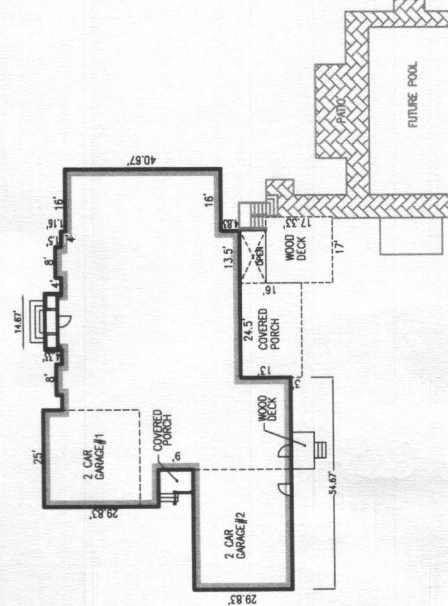
NOT TO SCALE

- TABLE A.4 IS TAKEN FROM THE "2000 MARYLAND STORMWATER MANUAL, VOLUME II - APPENDIX A. CONTRACTOR SHALL BE FAMILIAR WITH APPENDIX B.4.C "CONSTRUCTION SPECIFICATIONS", AND TABLE B.4.1 "MATERIAL SPECIFICATIONS". IN ADDITION, THE "2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II - APPENDIX A, OFFERS ADDITIONAL HELPFUL INFORMATION.
- NO TREES SHALL BE PLANTED WITHIN A MICRO-BIORETENTION FACILITY. USE ONLY SHRUB OR HERBACEOUS SPECIES.
- ABOVE TABLE A.4 IS FOR INFORMATIONAL PURPOSES ONLY. LANDSCAPE CONTRACTOR SHALL INSTALL PLANTINGS SPECIFIED IN THE PLANTING SCHEDULES SHOWN HEREON. CHOOSE FROM THE ABOVE TABLE OR USE APPROVED EQUAL SPECIES WHICH ARE TOLERANT TO FLUCTUATING WATER LEVELS. IF SUBSTITUTIONS ARE CHOSEN, APPROVAL FROM THE ENGINEER IS REQUIRED.
- PLANTINGS SHOWN HEREON ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF THIS FINAL PLAN.

Table A.4 Commonly Used Species for Bioretention Areas

Trees	Shrubs	Herbaceous Species
<i>Acer rubrum</i>	<i>Asculus parviflora</i>	<i>Andropogon virginicus</i>
Red Maple	Bottlebrush Buckeye	Broomsedge
<i>Betula nigra</i>	<i>Cephalanthus occidentalis</i>	<i>Eupatorium purpurea</i>
River Birch	Buntobush	Joe Pye Weed
<i>Juniperus virginiana</i>	<i>Hamamelis virginiana</i>	<i>Scirpus pungens</i>
Eastern Red Cedar	Witch Hazel	Three Square Bairush
<i>Chionanthus virginicus</i>	<i>Vaccinium corymbosum</i>	<i>Iris versicolor</i>
Fringe-tree	Highbush Blueberry	Blue Flag
<i>Nyssa sylvatica</i>	<i>Ilex glabra</i>	<i>Lobelia cardinalis</i>
Black Gum	Inkberry	Cardinal Flower
<i>Diospyros virginiana</i>	<i>Ilex verticillata</i>	<i>Panicum virgatum</i>
Persimmon	Winterberry	Switchgrass
<i>Platanus occidentalis</i>	<i>Viburnum dentatum</i>	<i>Dichanthelium scoparium</i>
Sycamore	Arrowwood	Broom Panic Grass
<i>Quercus palustris</i>	<i>Lindera benzoin</i>	<i>Rudbeckia laciniata</i>
Pin Oak	Spicebush	Tall Coneflower
<i>Quercus phellos</i>	<i>Myrica pennsylvanica</i>	<i>Scirpus cyperinus</i>
Willow Oak	Bayberry	Woolgrass
<i>Salix nigra</i>		<i>Vernonia noveboracensis</i>
Black willow		New York Ironweed

Note 1: For more options on plant selection for bioretention, consult Bioretention Manual (ETAB, 1993) or the Design of Stormwater Filtering Systems (Clayton and Schueler, 1997).



### EZEKWESILI RESIDENCE

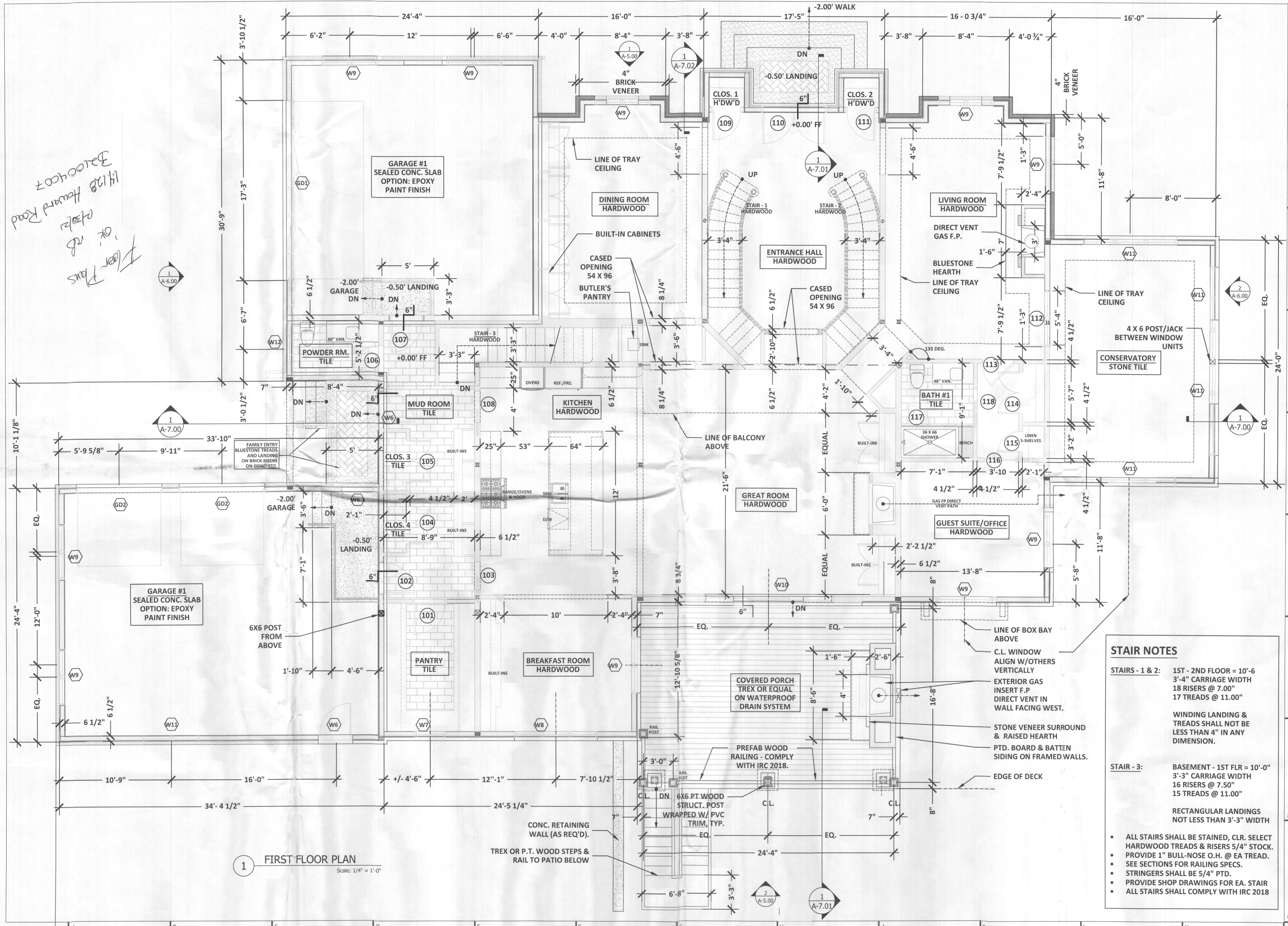
W/ STONE AND BRICK VENEER  
 SCALE: 1"=50'

## PLOT PLAN EZEKWESILI RESIDENCE LOT 2 14128 HOWARD ROAD

HOWARD COUNTY, MARYLAND  
 ZONED: RC-DEO

REF: FCP-11-005





Handwritten notes in the top left corner: "14128 Howard Road", "OK", "Floor Plans".

**1 FIRST FLOOR PLAN**  
Scale: 1/4" = 1'-0"

**STAIR NOTES**

**STAIRS - 1 & 2:** 1ST - 2ND FLOOR = 10'-6 3/4" CARRIAGE WIDTH 18 RISERS @ 7.00" 17 TREADS @ 11.00"

**WINDING LANDING & TREADS SHALL NOT BE LESS THAN 4" IN ANY DIMENSION.**

**STAIR - 3:** BASEMENT - 1ST FLR = 10'-0" 3'-3" CARRIAGE WIDTH 16 RISERS @ 7.50" 15 TREADS @ 11.00"

**RECTANGULAR LANDINGS NOT LESS THAN 3'-3" WIDTH**

- ALL STAIRS SHALL BE STAINED, CLR. SELECT HARDWOOD TREADS & RISERS 5/4" STOCK.
- PROVIDE 1" BULL-NOSE O.H. @ EA TREAD.
- SEE SECTIONS FOR RAILING SPECS.
- STRINGERS SHALL BE 5/4" PTD.
- PROVIDE SHOP DRAWINGS FOR EA. STAIR
- ALL STAIRS SHALL COMPLY WITH IRC 2018

**ZUHAUSE\_US**  
architecture  
environmental design  
interiors  
www.zuhause.us

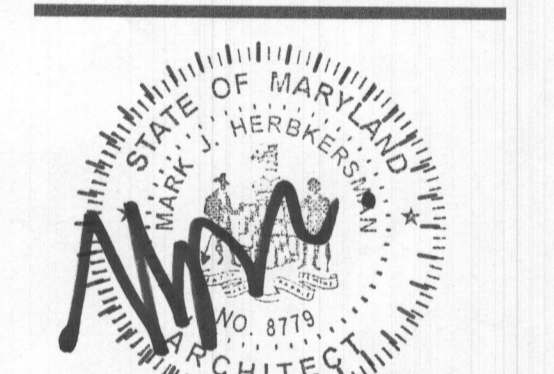
**ARCHITECT**  
Zuhause\_US  
Mark Joseph Herbkersman, Architect  
3807 Stansbury Mill RD | Phoenix, MD 21131  
p. 443.850.4660

**STRUCTURAL ENGINEER**  
TAMTECH SERVICES, INC.  
Paul Botzler, PE  
P.O. Box 261 | Monkton, MD 21111  
p. 410.812.8273 | pbotzler@gmail.com

**OWNER'S CIVIL ENGINEER**  
VOGEL ENGINEERING + TIMMONS GROUP  
Robert H. Vogel, P.E., M. ASCE  
3300 N. Ridge RD | Ellicott City, MD 21043  
p. 410.461.7666 | rob.vogel@timmons.com

**CLIENT**  
Alfred & Ije Ezekwesili  
14128 Howard Road  
Dayton, Maryland 21036

**PROJECT**  
A NEW RESIDENCE FOR  
**IJE & ALFRED EZEKWESILI**  
14128 HOWARD ROAD  
DAYTON, MD 21036



**MARK JOSEPH HERBKERSMAN, ARCHITECT**  
PROFESSIONAL CERTIFICATION:  
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED  
OR APPROVED BY ME AND THAT I AM A DULY LICENSED  
ARCHITECT  
UNDER THE LAWS OF THE STATE OF MARYLAND

no.	date	revision

**Project Name**  
EJI & ALFRED EZEKWESILI RESIDENCE

**Project Number**

**Date**  
11/14/2021

**Scale**  
1/4" = 1'-0"

**Drawing**  
FIRST FLOOR PLAN

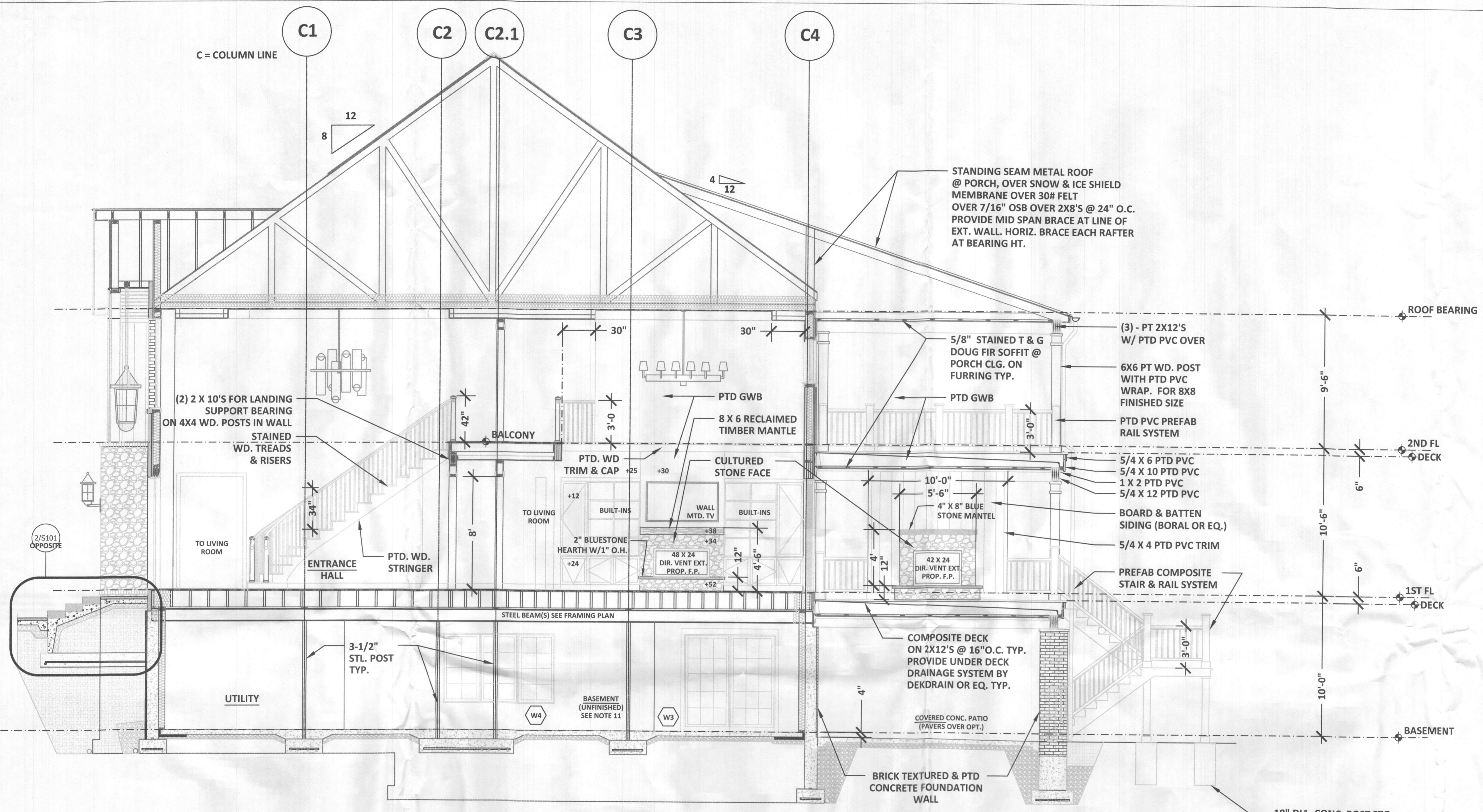
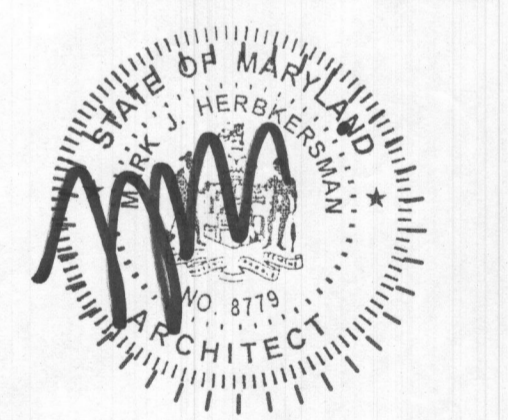
**A-1.00**  
BUILDING PERMIT

© ZUHAUSE\_US









STANDING SEAM METAL ROOF  
@ PORCH, OVER SNOW & ICE SHIELD  
MEMBRANE OVER 30# FELT  
OVER 7/16" OSB OVER 2X8'S @ 24" O.C.  
PROVIDE MID SPAN BRACE AT LINE OF  
EXT. WALL. HORIZ. BRACE EACH RAFTER  
AT BEARING HT.

(3) - PT 2X12'S  
W/ PTD PVC OVER

6X6 PT WD. POST  
WITH PTD PVC  
WRAP. FOR 8X8  
FINISHED SIZE

PTD PVC PREFAB  
RAIL SYSTEM

5/4 X 6 PTD PVC  
5/4 X 10 PTD PVC  
1 X 2 PTD PVC  
5/4 X 12 PTD PVC

BOARD & BATTEN  
SIDING (BORAL OR EQ.)

5/4 X 4 PTD PVC TRIM

PREFAB COMPOSITE  
STAIR & RAIL SYSTEM

COMPOSITE DECK  
ON 2X12'S @ 16" O.C. TYP.  
PROVIDE UNDER DECK  
DRAINAGE SYSTEM BY  
DEKRAIN OR EQ. TYP.

COVERED CONC. PATIO  
(PAVERS OVER OPT.)

BRICK TEXTURED & PTD  
CONCRETE FOUNDATION  
WALL

18" DIA. CONC. POST FTG.  
@ STAIR LANDING

**WALL CONSTRUCTION NOTES**

1. EXTERIOR WALLS SHALL BE:  
2 X 6 STUDS @ 16" O.C.  
W/ R-19 BATT INSULATION,  
W/ 1" ZIP SYSTEM SHEATHING (R-3.6) OVER,  
TAPE & INSTALL PER MFR. INSTRUCTIONS  
W/ FCB OR BORAL SIDING INSTALLED AS  
BOARD & BATTEN FACADE/CLADDING.
2. FRONT AND SIDE WALLS OF EXTERIOR WALLS  
SHALL BE BRICK VENEER OVER WOOD FRAMING,  
PER ABOVE, AND SOME AREAS SHALL BE CULTURED  
STONE OVER WOOD FRAMING, PER ABOVE.
3. CONTRACTOR SHALL UTILIZE PROPER ANCHORING  
METHODS FOR BRICK VENEER AND CULTURED STONES  
PER MANUFACTURER'S INSTALLATION RECOMMEND-  
ATIONS.
4. NOTE: THE REAR WALL OF GREAT ROOM SHALL BE  
2X8 STUD CONSTRUCTION WITH 6X6 PSL POSTS  
INTEGRATED INTO THE WALL. SEE FRAMING PLANS.
5. STUD WALLS SHALL BE ANCHORED TO  
ADVANTECH T&G SUBFLOORING SYSTEM THROUGH  
2 X 6 BASE PLATE. ANCHOR WITH 1/2" BOLTS MIN.  
SPACED PER 2018 IRC, CHAPTER 6.
6. TOP OF STUD WALLS SHALL BE CAPPED WITH  
DOUBLE 2 X 6 PLATES. PROVIDE HURRICANE  
CLIPS TO SECURE ROOF TRUSSES OR RAFTERS.
7. PROVIDE 1/2" PTD GWB ON SIDE FACE OF WALLS. PREP  
SURFACES FOR PAINT OR OTHER OWNER DIRECTED  
FINISHES. USE GREEN BOARD OR DUROCK AT WALLS  
INTENDED TO RECEIVE TILE, AND IN ALL BATHROOMS,  
OR HIGH MOISTURE ENVIRONMENTS.
8. ALL EXTERIOR FRAMED WALLS SHALL CONTAIN R-19 BATT  
INSULATION PLUS 1" ZIP SYSTEM INSULATED SHEATHING.  
R-3.6; TOTAL WALL R VALUE = 22.6
9. ALL ROOF AND ATTIC AREAS COVERING INTERIOR FINISHED  
SPACE SHALL CONTAIN R-38 BATT INSULATION WITHIN  
RAFTERS OR BETWEEN JOISTS OR TRUSSES. CONTRACTOR  
SHALL INSTALL INSULATION AND MAINTAIN 1-1/2"  
CONTINUOUS, CLEAR AIR SPACE ABOVE THE PLANE OF  
INSULATION SUCH THAT AIR CAN CIRCULATE FREELY  
BETWEEN ROOF SOFFIT VENTS AND ROOF RIDGE VENTS AND  
GABLE END VENTS.
10. INDOOR SIDES OF WINDOWS AND DOOR OPENINGS SHALL  
RECEIVE CASING U.N.O. WINDOW CASING SHALL HAVE  
PROJECTED 1-1/2" O.H. SILL & STOOLS AT INTERIOR  
NOTE: WINDOW DISTRIBUTOR TO  
PROVIDE JAMB EXTENSIONS FOR MANY WINDOWS.
11. BASEMENT PERIMETER WALLS SHALL BE TREATED  
AS FOLLOWS:  
10" CONCRETE WALL (EXTERIOR FACE WATERPROOFED)  
2X6 STUD FRAMING WITH FOIL FACED FIBERGLASS  
INSUL. (R-19)  
1/2" PTD. GWB OVER WHERE REQUIRED.
12. MATCH METAL ROOF GABLE DORMER FRAMING SPEC.

**BUILDING SECTION 2**  
Scale: 1/4" = 1'-0"