

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: 2-3-22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570940

APPROVAL DATE: 08/30/2022 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 13613 NOBLE WAY, HIGHLAND, MD 20777

SUBDIVISION: THE ESTATES AT RIVER HILL LOT: 6 TAX ID: 05-601934

CONTRACTOR: Kreedy Septic EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

PROPERTY OWNER: ESTATES AT RIVER HILL LLC EMAIL: tkeane@trinityhomes.com

OWNER ADDRESS: 3675 PARK AVE., SUITE 301, ELLICOTT CITY, MD 21043 PHONE: (443)324-9806

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: MAYER BROS., INC.

PUMP MODEL: GOULDS PUMP SIZE: 0.3 HP PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

| | | |
|-----------|--|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>84</u> | INLET DEPTH: <u>2.0</u> |
| | TRENCH WIDTH: <u>2</u> | MAXIMUM BOTTOM DEPTH: <u>8.0</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: <u>15</u> | EFFECTIVE AREA BEGINNING DEPTH: <u>2.0</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 CLEANOUTS IN SHC. SYSTEM MUST PASS PUMP & ALARM TEST FOR FINAL APPROVAL OF THIS PERMIT AND HEALTH DEPT. RELEASE OF USE & OCCUPANCY RB | |

ISSUED BY: R. BRICKER ISSUE DATE: 2-3-22 EXPIRATION DATE: 2-3-23

- 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 22000939
- 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.

13613 Noble Way
NOT TO SCALE

A see attached

ROAD NAME

TRENCH/DRAINFIELD DATA

| WIDTH | INLET | BOTTOM |
|-------------------------|-------|---------------------|
| 2' | 2' | 8' |
| NUMBER OF TRENCHES | | 2 |
| TOTAL LENGTH | | 84' |
| ABSORPTION AREA | | 252 sqft + sidewalk |
| DISTRIBUTION BOX LEVEL | | N/A |
| DISTRIBUTION BOX BAFFLE | | 90° down |
| DISTRIBUTION BOX PORT | | PVC |

SEPTIC TANK DATA

SEPTIC TANK I LEVEL yes
 MANUFACTURER Babylon
 CAPACITY 1500 GAL
 SEAM LOC top
 TANK LID DEPTH 3'
 BAFFLES _____
 BAFFLE FILTER -
 MANHOLE LOC _____
 6" PORT LOC -
 WATERTIGHT TEST -
 SLOTTED yes
 DATE ON LID 1-5-22

PUMP/SEPTIC TANK LEVEL

yes
 MANUFACTURER Babylon
 CAPACITY 1500 GAL
 SEAM LOC top
 TANK LID DEPTH 3'
 BAFFLES _____
 BAFFLE FILTER -
 MANHOLE LOC _____
 6" PORT LOC -
 WATERTIGHT TEST -
 SLOTTED no
 DATE ON LID 1-4-22

PRE-CONSTRUCTION:

2/8/22 2x42' trenches were staked out on contour according to plan. Confirmed SHC is located in planned location. (SD)

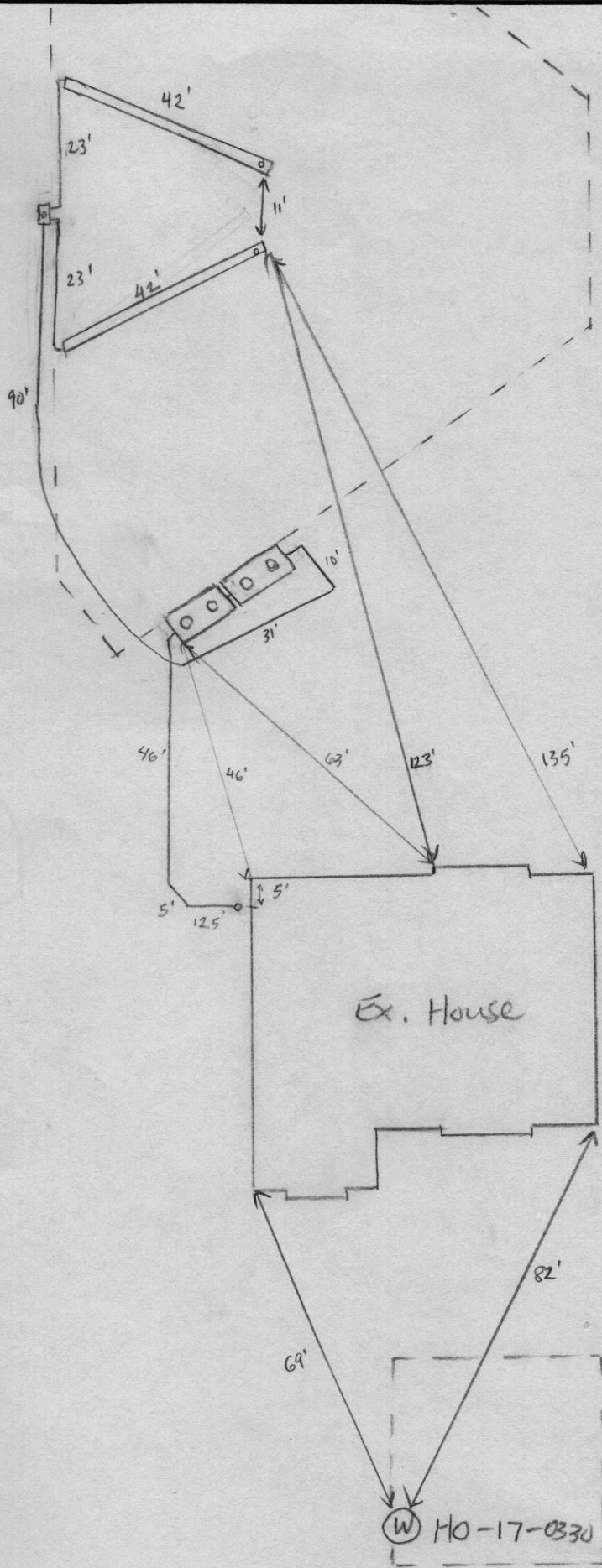
INSTALLATION:

2/14/22 SL constructed. Both tanks set. Reinsp for SHC. (SD) 2/15/22 FM installed, d-box set, 2x42' trenches installed. Reinsp for baffles and SHC. (SD) 08/30/2022 Pump + ALARM ON SUB PANEL. Pump + ALARM FUNCTION. (SD)

FINAL INSPECTOR

DATE OF APPROVAL

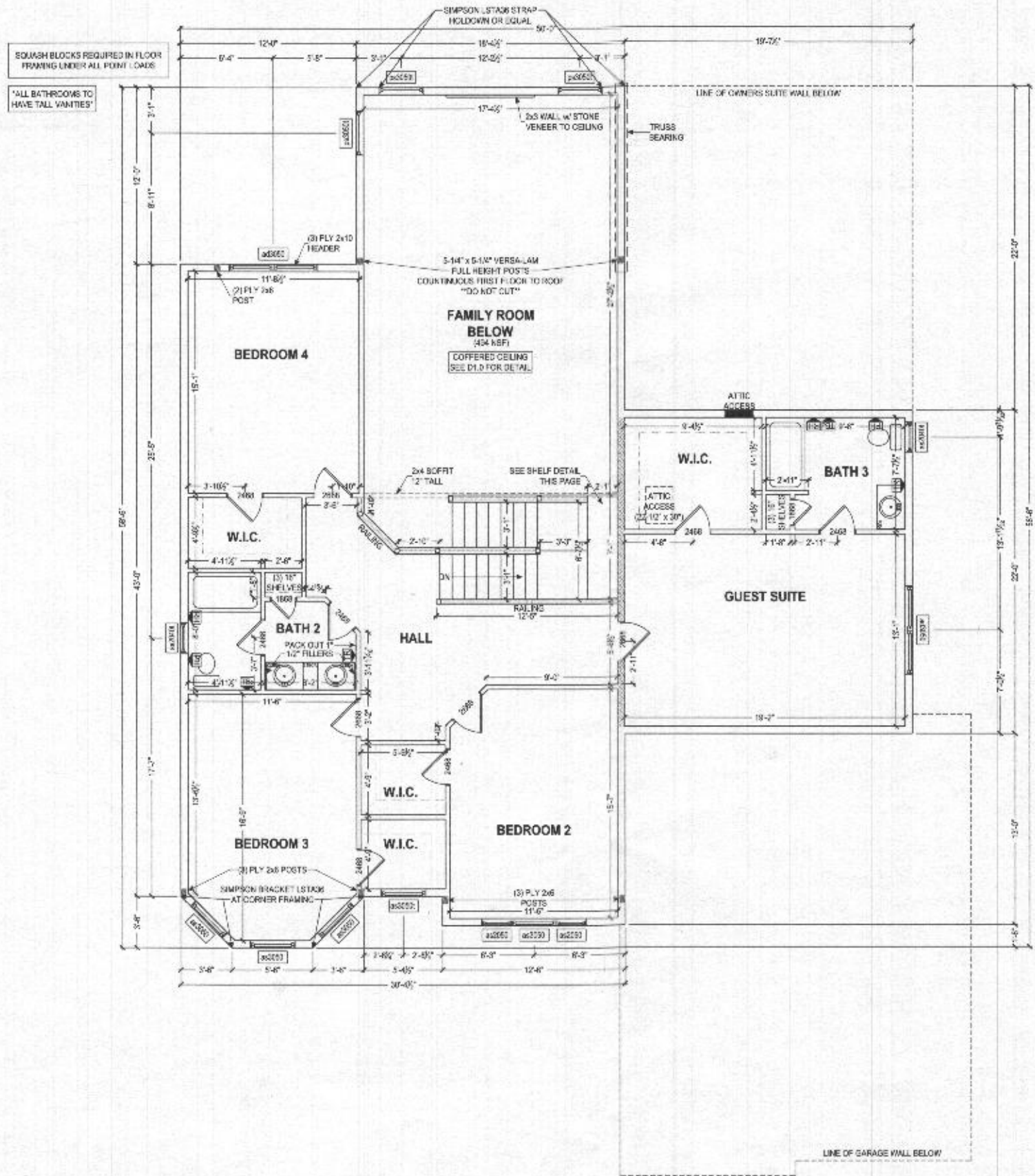
08/30/2022



NOT TO SCALE

13613 Noble Way

Noble Way



The accuracy of any drawings and content of this plan is the responsibility of the architect. It is the responsibility of the contractor to verify all dimensions and conditions before construction. All dimensions are in feet and inches unless otherwise noted. All dimensions are to the center of the member unless otherwise noted. All dimensions are to the finished surface unless otherwise noted. All dimensions are to the center of the member unless otherwise noted. All dimensions are to the center of the member unless otherwise noted.

227 GRANITE RUN DRIVE, SUITE 100
 LANCASTER, PENNSYLVANIA 17601
 PH: (717) 464-9060 • FAX: (717) 464-9046
 www.keystonemaster.com

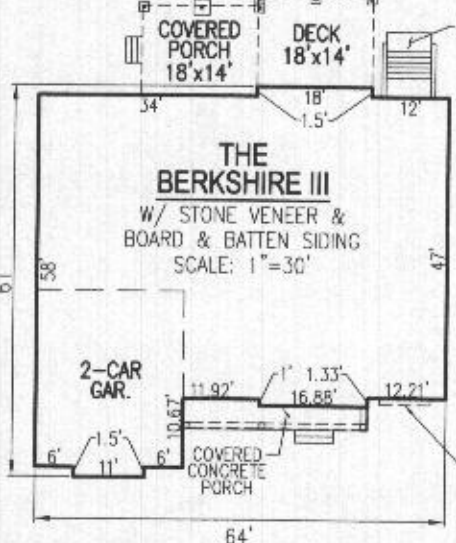
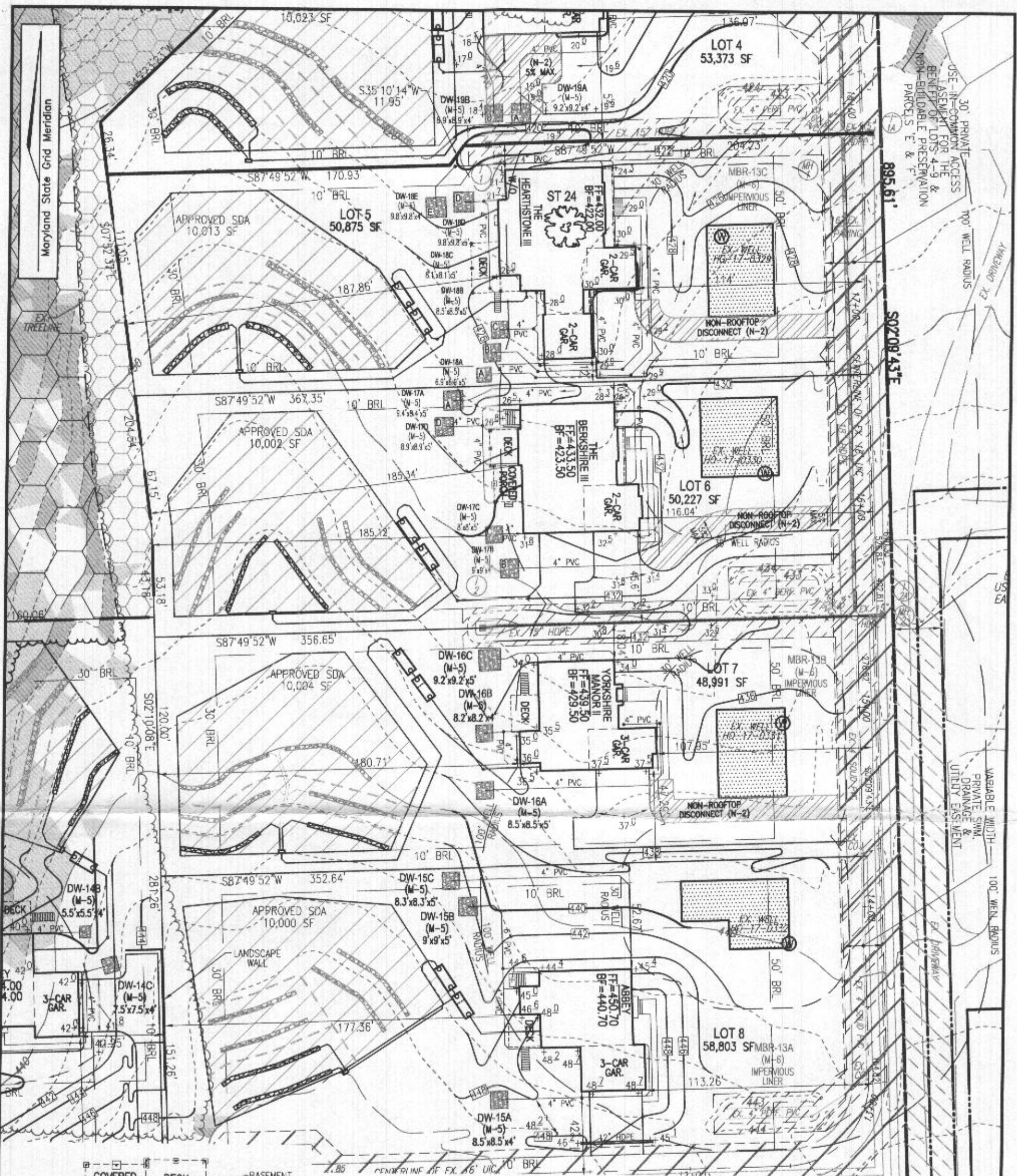


KEYSTONE CUSTOM HOMES, INC.

| | |
|--------------|-------------------|
| PROJECT NAME | SECOND FLOOR PLAN |
| MODEL | MR-012 |
| DESIGNER | CARTER / SHAW |
| DATE | APR 28 2021 |
| SCALE | AS NOTED |
| DRAWN BY | C.FOX |
| CHECKED BY | P.I. |
| DATE | anh 10 |

ALL EXTERIOR WALLS ARE 1625 COND. STRUCTURAL SHEATHING - 1/2" GYPSUM BOARD PER ST. 110
 CHASE BOARD, 1/2" GYPSUM BOARD
 METRIC: POST, 110 2x6 INTERIOR WALL INTERIOR HALF WALL FRAMING POST

SECOND FLOOR PLAN
 SCALE: 3/8" = 1'-0"



SITE PLAN
SCALE: 1"=50'

OWNER

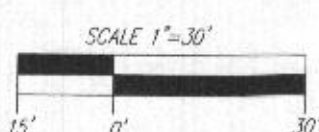
ESTATES AT RIVER HILL, LLC
MICHAEL PFAU, MEMBER
3675 PARK AVENUE, SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

DEVELOPER

TRINITY HOMES MARY LAND, LLC
3675 PARK AVENUE, SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

REVISED
Date: 7/20/2021
Comments: B19003291

Approved Sept 8 System Plan
Howard County Health Department
5-bedroom SFD w/rough-in
Bath in unfinished basement



Back
Signature

VOGEL ENGINEERING
8/4/21
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLCOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

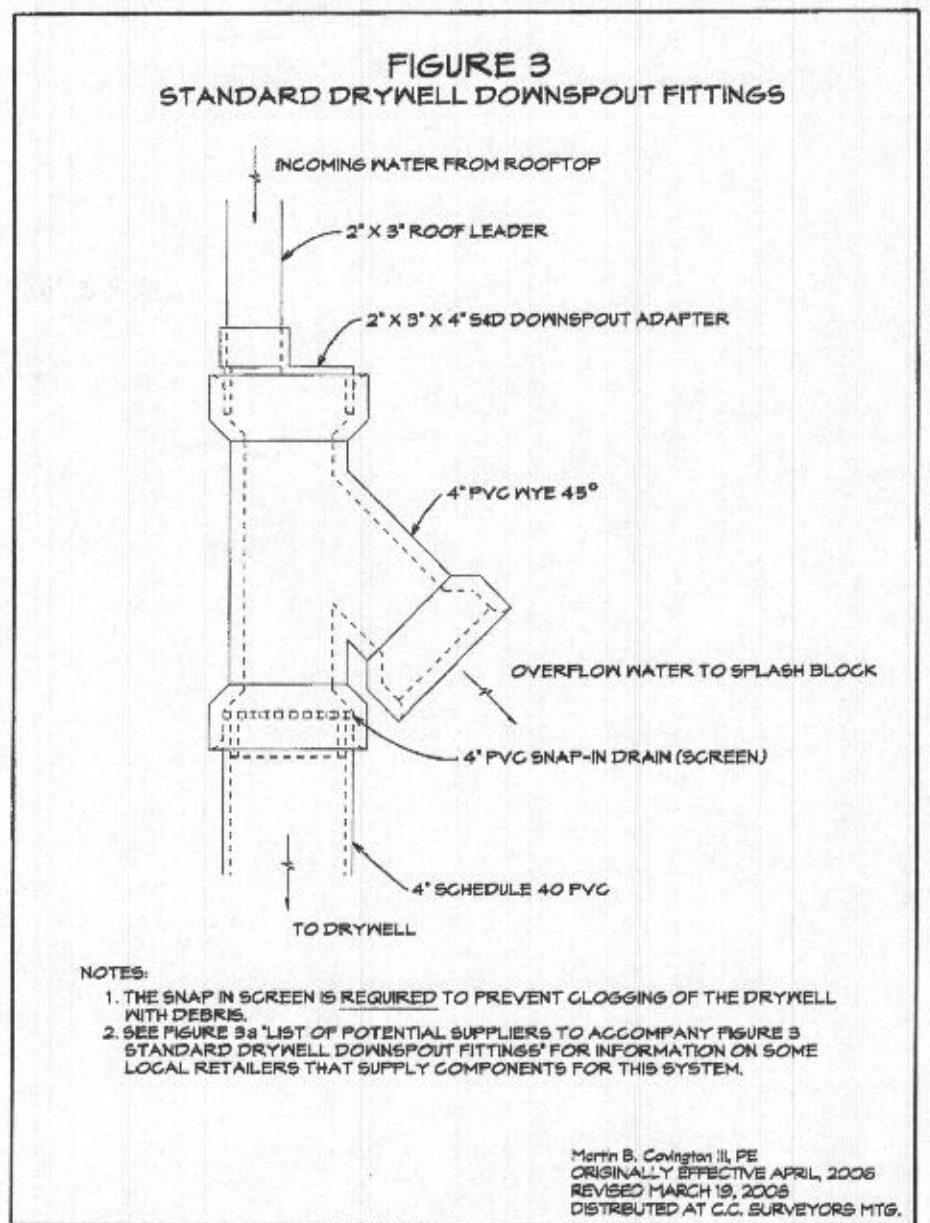
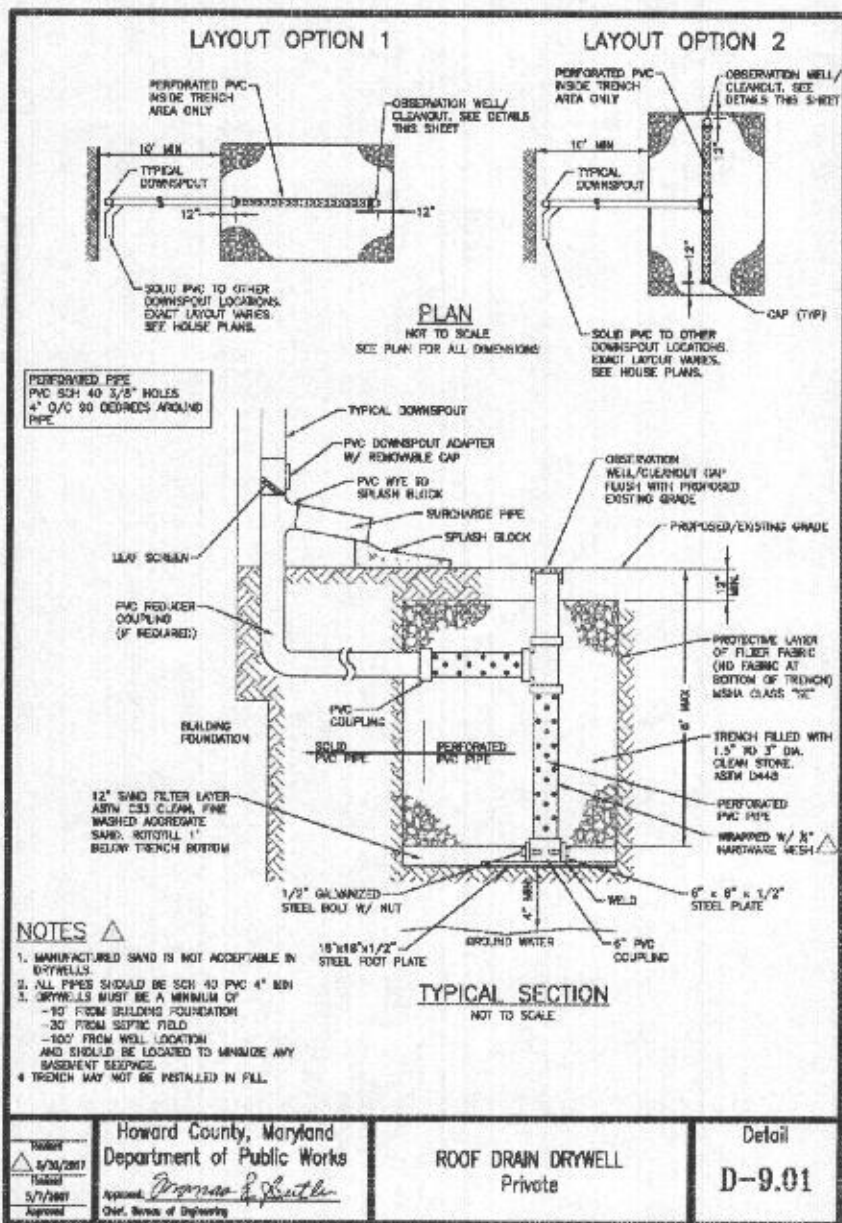
PLOT PLAN
THE ESTATES AT RIVER HILL - LOT 6

13613 NOBLE WAY
HIGHLAND, MD 20777

SCALE AS SHOWN
DRAWN BY JMR
CHECKED BY RHV
DATE JULY 01, 2021
W. O. # 15-39
SHEET # 1 OF 2

5TH ELECTION DISTRICT
TAX MAP: 34 PARCEL: 389
DPZ REF'S: ECP-16-064, WP-17-034,
WP-17-128, SP-17-007, F-18-064

BLOCK: 23
ZONED: RR-DEO
HOWARD COUNTY, MARYLAND



OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER INFILTRATION TRENCHES (I-1) AND DRY WELLS (M-5)

1. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS, AND AFTER EVERY LARGE STORM EVENT.
2. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
3. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
4. WHEN THE FACILITY BECOMES CLOGGED, SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
5. THE MAINTENANCE LOGBOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
6. 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.

N-2. DISCONNECTION OF NON-ROOFTOP RUNOFF

CONSTRUCTION CRITERIA:

THE FOLLOWING SHOULD BE ADDRESSED DURING CONSTRUCTION OF PROJECTS WITH NON-ROOFTOP DISCONNECTIONS:

- EROSION AND SEDIMENT CONTROL: EROSION AND SEDIMENT CONTROL PRACTICES (E.G., SEDIMENT TRAPS) SHALL NOT BE LOCATED IN AREAS DESIGNATED FOR NON-ROOFTOP DISCONNECTIONS.
- SITE DISTURBANCE: TO MINIMIZE DISTURBANCE AND COMPACTION, CONSTRUCTION VEHICLES AND EQUIPMENT SHOULD AVOID AREAS RECEIVING DISCONNECTED RUNOFF. SHOULD AREAS RECEIVING DISCONNECTED RUNOFF BECOME COMPACTED, SCARIFYING THE SURFACE OR ROTOTILLING THE SOIL TO A DEPTH OF FOUR TO SIX INCHES SHALL BE PERFORMED TO ENSURE PERMEABILITY. ADDITIONALLY, AMENDMENTS MAY BE NEEDED FOR TIGHT, CLAYEY SOILS.

INSPECTION:

A FINAL INSPECTION SHALL BE CONDUCTED BEFORE USE AND OCCUPANCY APPROVAL TO ENSURE THAT ADEQUATE TREATMENT AREAS AND PERMANENT STABILIZATION HAS BEEN ESTABLISHED.

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

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

OWNER
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MICHAEL PFAU, MEMBER
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| DW# | LOT | DRAINAGE AREA | VOLUME REQUIRED | PROPOSED DIMENSIONS | VOLUME PROVIDED |
|-----|-----|---------------|-----------------|---------------------|-----------------|
| 17A | 6 | 1,107 SF | 438 CF | 9.4'x9.4'x5' | 442 CF |
| 17B | 6 | 810 SF | 320 CF | 9'x9'x4' | 324 CF |
| 17C | 6 | 799 SF | 318 CF | 8'x8'x5' | 320 CF |
| 17D | 6 | 984 SF | 390 CF | 8.9'x8.9'x5' | 396 CF |

DRYWELL #17A
 $ESD_v = (0.95)(2.0)(1,107)/12 = 175 \text{ CF}$
 $175/0.4 = 438 \text{ CF (REQ.)}$
 $9.4'x9.4'x5' = 442 \text{ CF (PROV.)}$

DRYWELL #17B
 $ESD_v = (0.95)(2.0)(810)/12 = 128 \text{ CF}$
 $128/0.4 = 320 \text{ CF (REQ.)}$
 $9'x9'x4' = 324 \text{ CF (PROV.)}$

DRYWELL #17C
 $ESD_v = (0.95)(2.0)(799)/12 = 127 \text{ CF}$
 $127/0.4 = 318 \text{ CF (REQ.)}$
 $8'x8'x5' = 320 \text{ CF (PROV.)}$

DRYWELL #17D
 $ESD_v = (0.95)(2.0)(984)/12 = 156 \text{ CF}$
 $156/0.4 = 390 \text{ CF (REQ.)}$
 $8.9'x8.9'x5' = 396 \text{ CF (PROV.)}$

OK! rcb 8/4/21

VOGEL ENGINEERING

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