

**DESIGN DATA & GENERAL NOTES**

- Concrete strength F=4000 p.s.i. @ 28 days. Density = 150 pcf.
- Cement-Portland Type III per ASTM C 150-82.
- Admixtures & plasticizers per ASTM C 209-88 & C 494-02.
- Reinforcing per ASTM A 618, Min. 5/8" cover.
- Top slab sealed with butyl rope mastic.
- 4" wall, 4" base, & 8" top thickness.
- Max 2' of cover.
- Depending on use of tank, Inlet & Outlet baffles may be required by code.

**BACK RIVER PRE-CAST, LLC**  
 P.O. Box 325  
 Glyndon, MD 21071  
 410-833-3398 office  
 410-833-4116 fax  
 www.backriverprecast.com

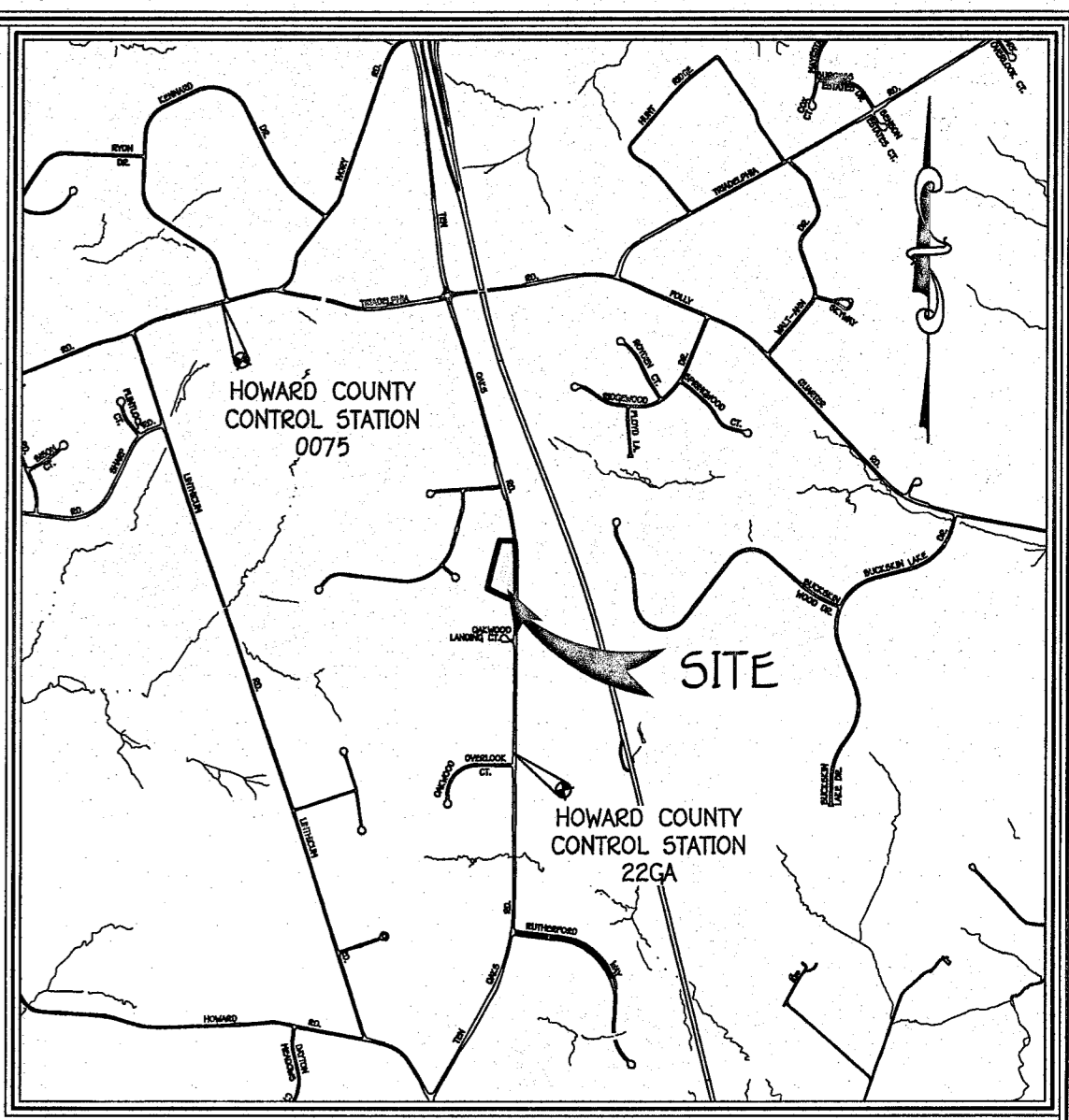
**2,000 GALLON SEPTI 1-Compartment**  
 Stock Item [Approx. 19,000 lbs]  
 Dwg. No. 2000-1C No Scale Aug. 11, 2008

**WEIGHT = 19,000 lbs.**

**INITIAL SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA - INITIAL SYSTEM  
 6 BEDROOMS  
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM + 150 GPD = 1050 GPD  
 APPLICATION RATE = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 5 FEET  
 TRENCH DEPTH = 9 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3 FEET  
 SF OF DRAINFIELD = 1050 GPD / 1.2 = 875 SF  
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+2\*3) = 0.50  
 TRENCH LENGTH = 875 SF x 0.50 / 3 = 145 FEET  
 3 TRENCHES AT 49'  
 TRENCH SPACING = 2D+W = (2\*3) + 3 = 9' USE 10'

**1ST REPLACEMENT SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA - INITIAL SYSTEM  
 6 BEDROOMS  
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM + 150 GPD = 1050 GPD  
 APPLICATION RATE = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 5 FEET  
 TRENCH DEPTH = 9 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3 FEET  
 SF OF DRAINFIELD = 1050 GPD / 1.2 = 875 SF  
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+2\*3) = 0.50  
 TRENCH LENGTH = 875 SF x 0.50 / 3 = 145 FEET  
 3 TRENCHES AT 49'  
 TRENCH SPACING = 2D+W = (2\*3) + 3 = 9' USE 10'

**2ND REPLACEMENT SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA - INITIAL SYSTEM  
 6 BEDROOMS  
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM + 150 GPD = 1050 GPD  
 APPLICATION RATE = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 5 FEET  
 TRENCH DEPTH = 9 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3 FEET  
 SF OF DRAINFIELD = 1050 GPD / 1.2 = 875 SF  
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+2\*3) = 0.50  
 TRENCH LENGTH = 875 SF x 0.50 / 3 = 145 FEET  
 3 TRENCHES AT 49'  
 TRENCH SPACING = 2D+W = (2\*3) + 3 = 9' USE 10'

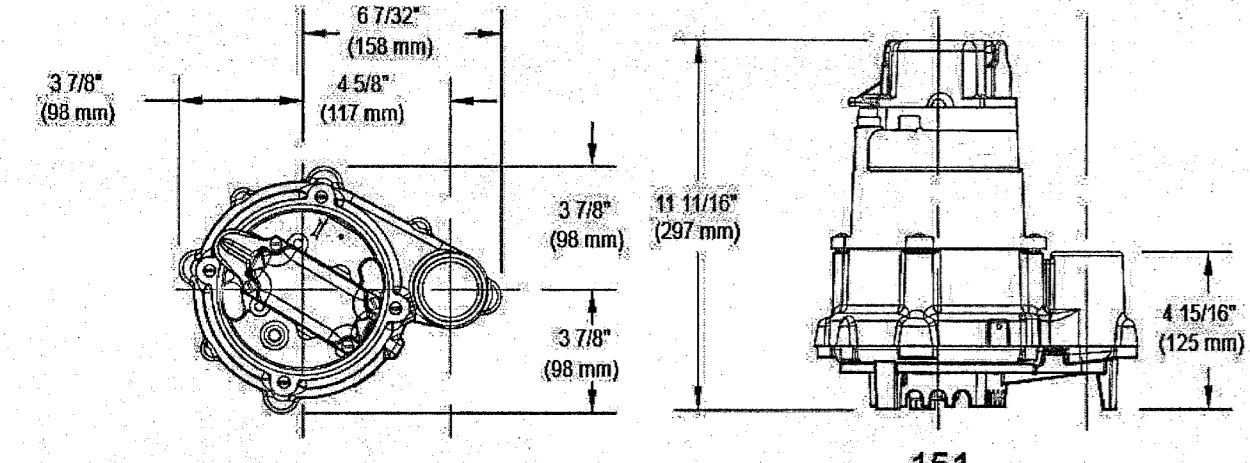


**VICINITY MAP**  
 SCALE: 1" = 2000'

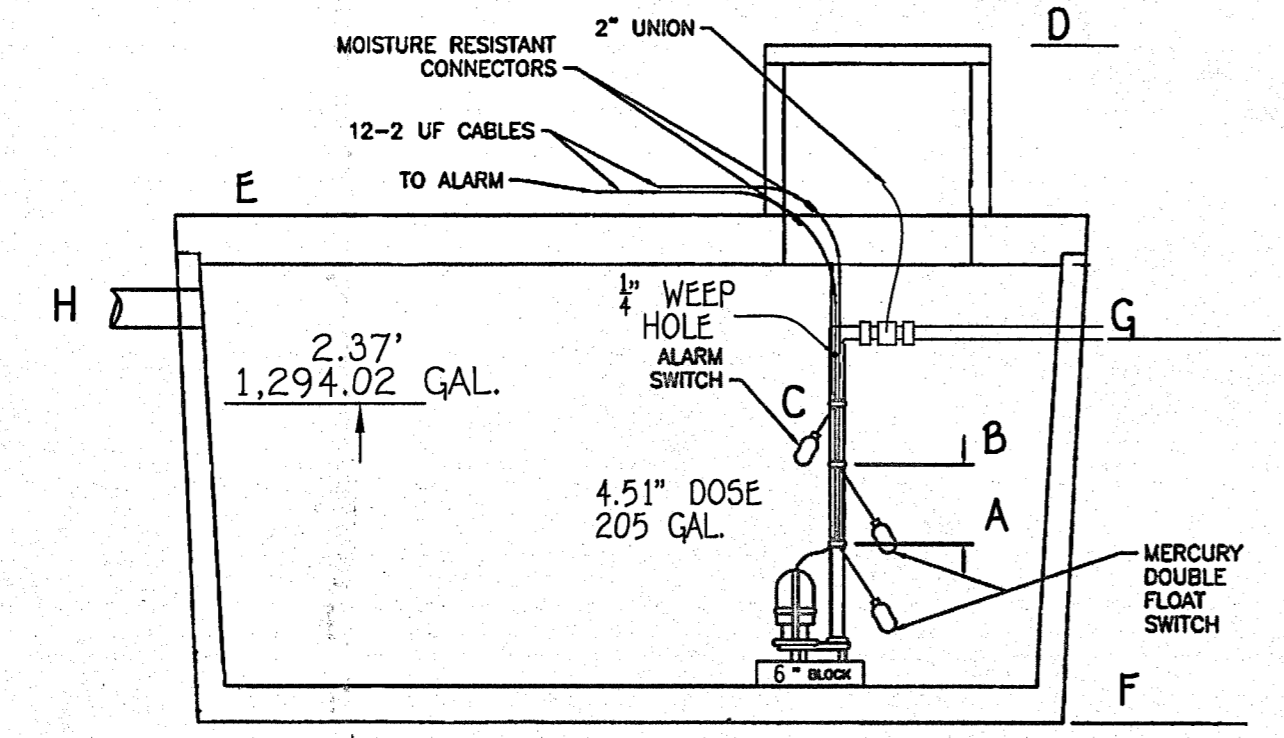
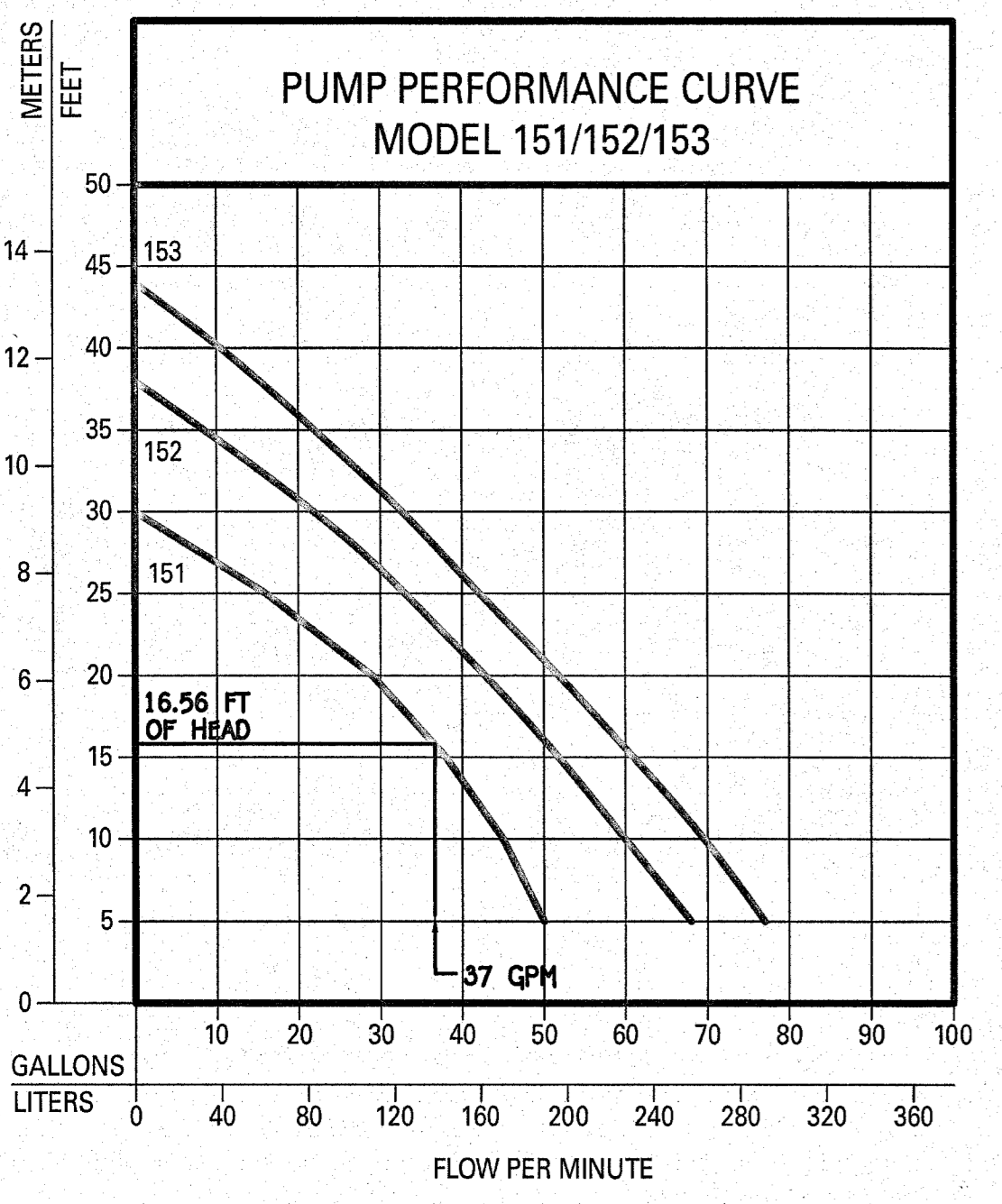
**GEODETIC CONTROL STATIONS**

#22GA ELEV. 599.231 N. 576,846.79 E. 1,316,983.52	#0075 ELEV. 614.07 N. 581,869.20 E. 1,313,719.39
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SCALE: 1" = 50'



PUMP DETAIL



**PUMP TANK DETAIL**  
 911.72 GAL EMERGENCY STORAGE  
 NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.

1 UNION @ 2" SCH. 40 PVC = 180 LF  
 2 1/2" HB @ 4 EQUIVALENT FEET = 2 LF  
 1 1/16" HB @ 4 EQUIVALENT FEET = 4 LF  
 TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 194 LF

**DYNAMIC HEAD**  
 194 LF X 2.05 FT PER 100 LF OF 2" PIPE = 3.98 FT OF FRICTION HEAD  
 VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 2.25 FT OF HEAD  
 HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV OF SYSTEM = 10.33 FT (PUMP OUT IS THE HIGHEST POINT)  
 TOTAL DYNAMIC HEAD = 16.56 FT

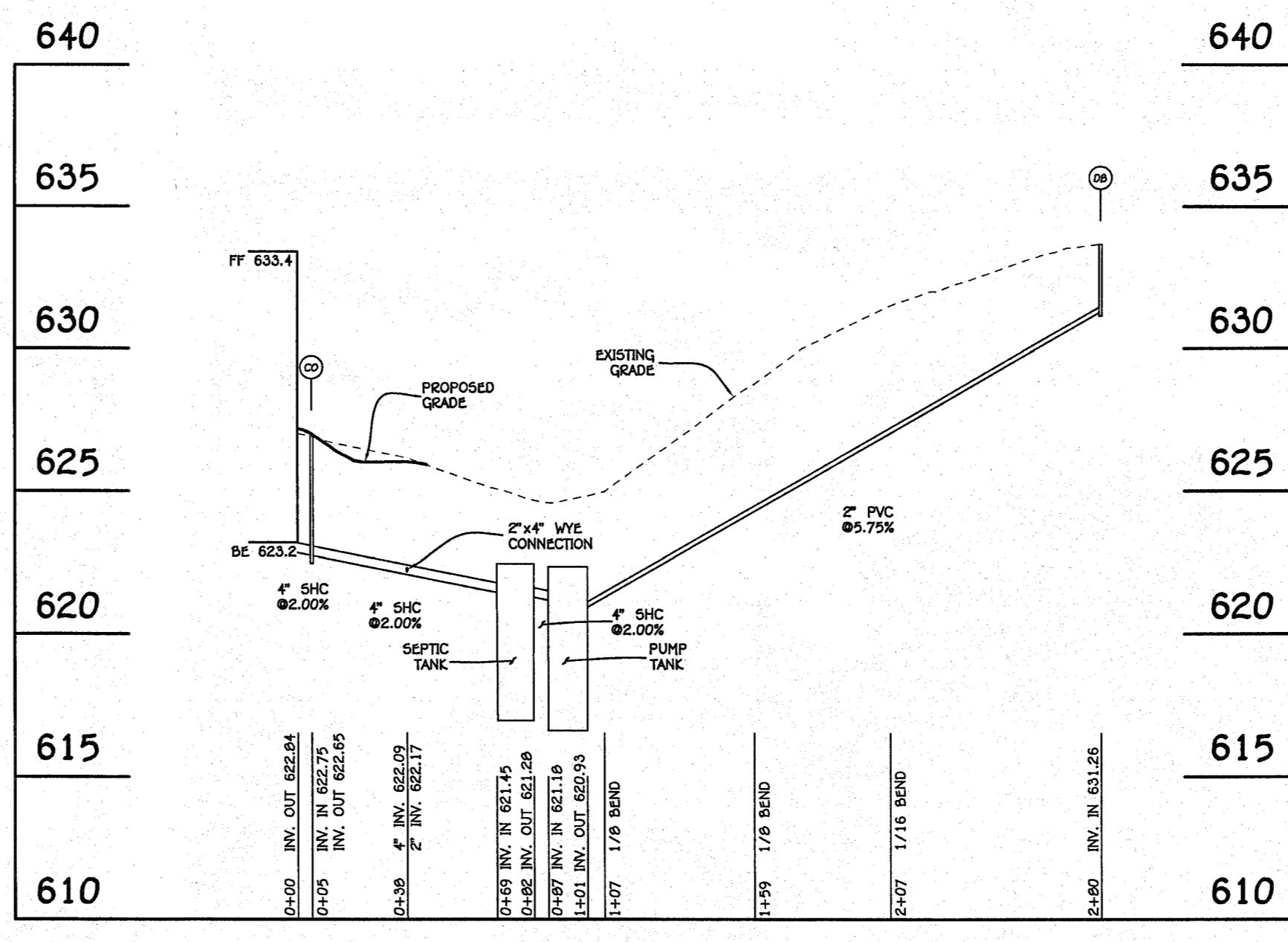
1/6 DESIGN FLOW (1050/6=175) PLUS VOLUME OF 2" PIPE (30 GALLONS)  
 USE 205 GALLON DOSE (175 GALLON MINIMUM)  
 RUN TIME = 9.54 MIN (37 GPM X 9.54 = 205 GALLON DOSE)

PUMP NEEDS TO HANDLE 37 GPM AT 16.56 FT OF HEAD  
 USE 0.3 HP (ZOELLER MODEL 151 PUMP)

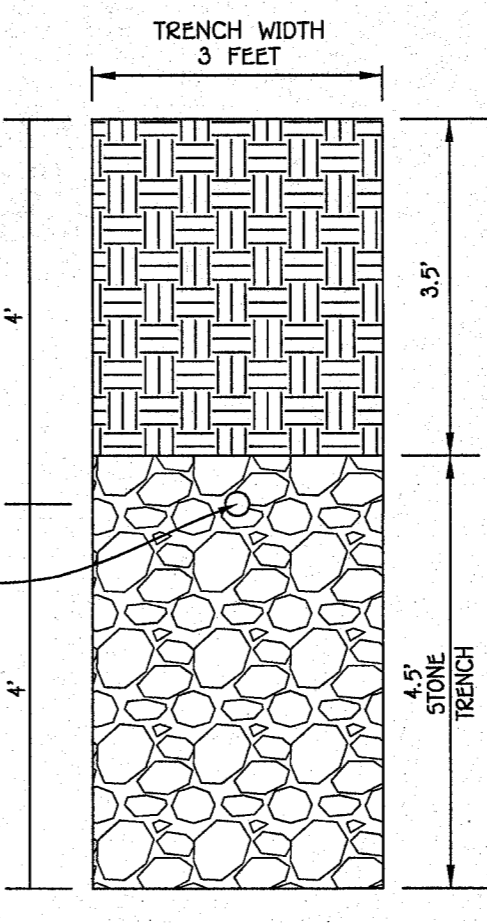
**PUMP ALARMS / INFORMATION**

A	PUMP OFF : 618.60'
B	PUMP ON : 619.06'
C	HIGH WATER ALARM : 619.56'
D	TOP OF ACCESS COVER : 622.35'
E	TOP OF TANK : 622.35'
F	BOTTOM OF TANK : 616.60'
G	DISCHARGE OUT OF TANK : 620.93'
H	INVERT INTO TANK : 621.18'

ONE TWO CHAMBER  
 2,000-GAL SEPTIC TANK  
 & ONE 2,000-GAL PUMP TANK  
 W/ ZOELLER BN151  
 PUMP OR EQUAL TO  
 GRAVITY DISTRIBUTION FOR  
 6 BEDROOM 5FD



PROFILE  
 SCALE HORZ. 1" = 50'  
 VERT. 1" = 5'

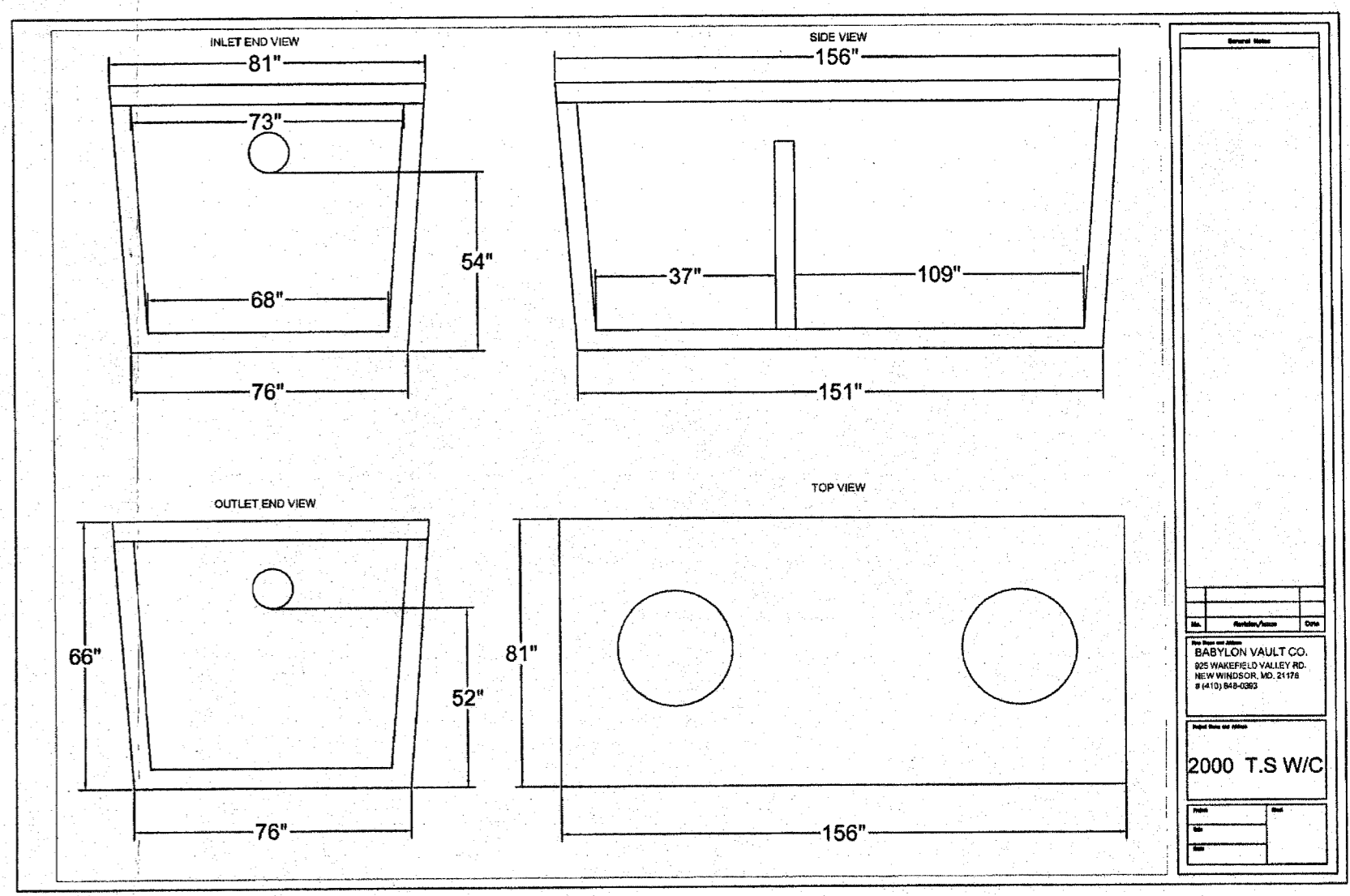


INITIAL TRENCH DETAIL  
 SCALE 1" = 2'

**LEGEND**

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
X 446.5	SPOT ELEVATION
FL 48' 50"	EXISTING STORM DRAIN
12" 50"	PROPOSED STORM DRAIN PIPE
---	EXISTING CABLE LINE
---	EXISTING GAS LINE
---	EXISTING OVERHEAD WIRE
---	PROPOSED PAVING/PATH
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	SILT FENCE
---	DIVERSION FENCE
---	EXISTING TREE LINE
GgB GgC	SOIL LINES AND TYPES
---	BIO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
---	PROPOSED ROOF LEADER
---	DENOTES EXISTING TREES TO REMAIN
---	CRITICAL ROOT ZONE
---	STABILIZED CONSTRUCTION ENTRANCE

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE WELL WILL BE FIELD LOCATED.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- THE ENGINEER IS REGISTERED WITH MDE TO PERFORM ON-SITE WASTEWATER SERVICES IN MARYLAND.
- CONDITION OF EXISTING SEWAGE DISPOSAL SYSTEM TO BE EVALUATED DURING INSTALLATION. IF ANY PART OF EXISTING SYSTEM APPEARS NOT BE FUNCTIONAL OR IN A FAILING CONDITION, IT MUST BE REPAIRED OR REPLACED PRIOR TO CONNECTION.



**SEPTIC SYSTEM INSTALLATION SITE PLAN**  
**MAE PARSLEY PROPERTY**

**OWNERS/BUILDERS**  
 TRUSTEES INNALELLAH REVOCABLE LIVING TRUST ABDALLA BASHEER TRUSTEE  
 10904 KATHLEEN COURT  
 COLUMBIA, MARYLAND 21044

4196 TEN OAKS ROAD  
 ZONING: RE-DEO  
 TAX MAP No. 22 QZID No. 20 PARCEL No. 179  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: MAY, 2023  
 SHEET 1 OF 2

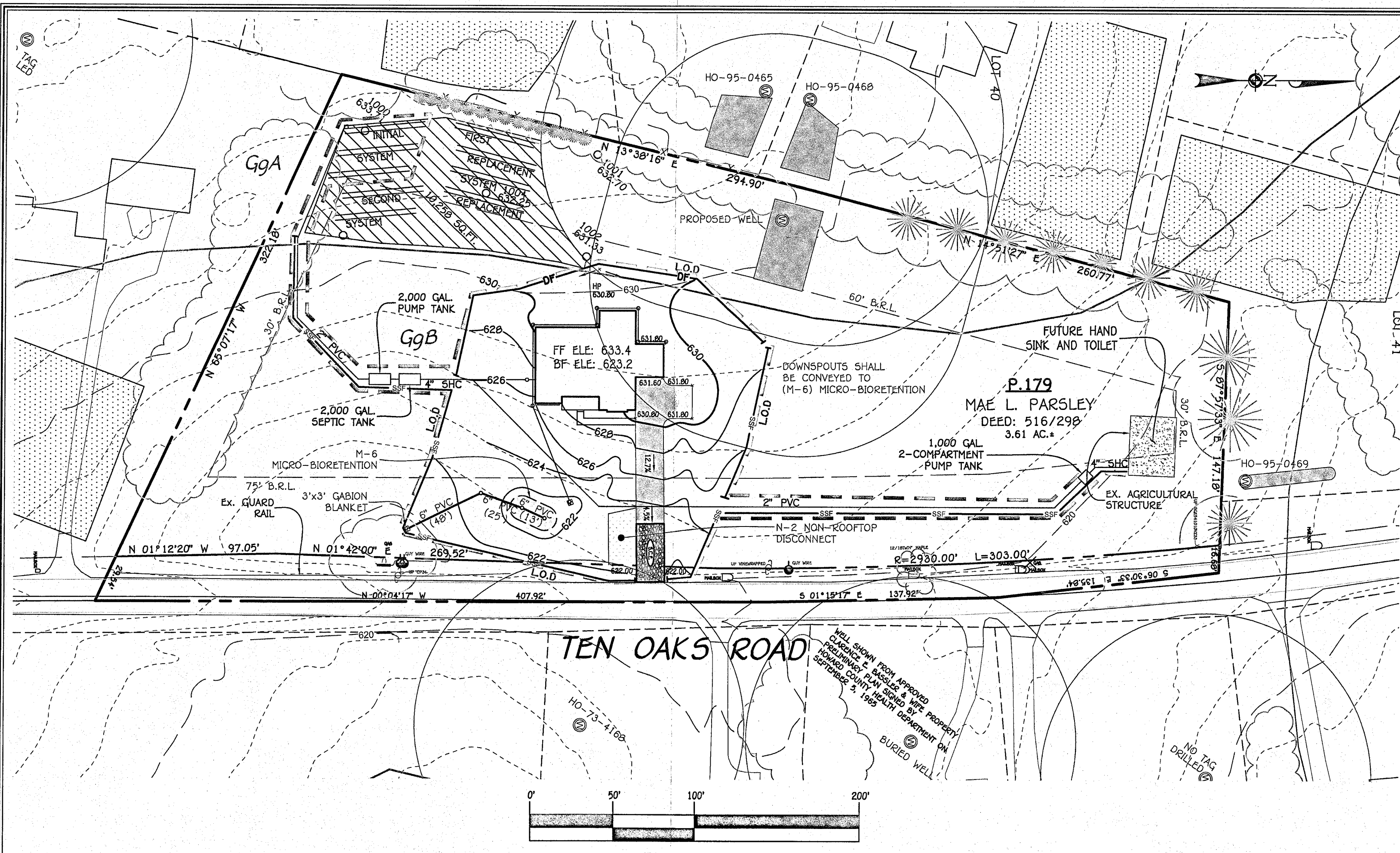
**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 1000 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461 - 2295



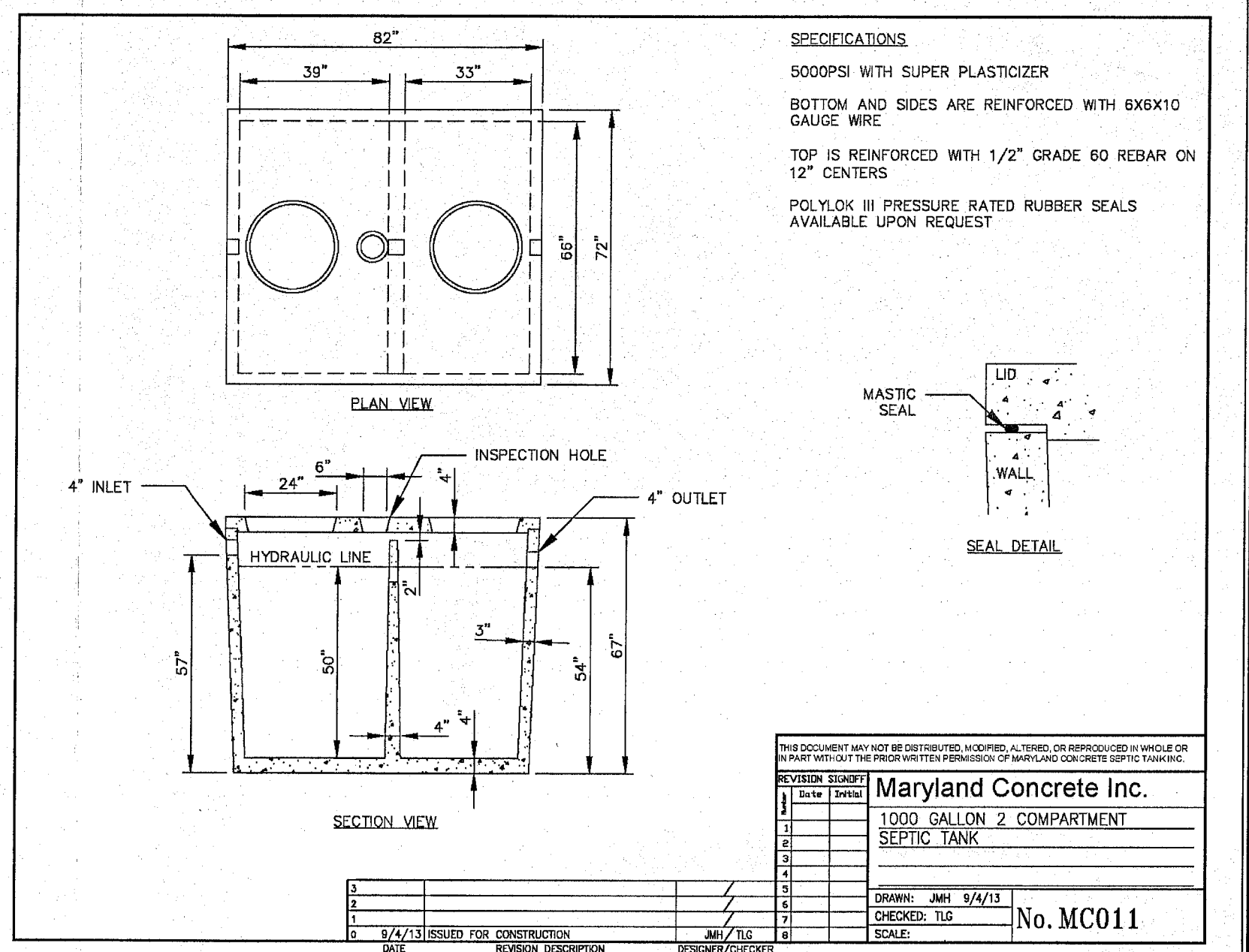
**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2025.

Signature of Professional Engineer: *Michael J. Calanog*  
 DATE: *May 23, 2023*

NOTE: SEPTIC SYSTEM ALARM WILL BE ON A CIRCUIT SEPARATE FROM ANY OTHER SEPTIC SYSTEM COMPONENTS OR ALARMS.



LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
x448.5	SPOT ELEVATION
---	EXISTING STORM DRAIN
---	PROPOSED STORM DRAIN PIPE
---	EXISTING CABLE LINE
---	EXISTING GAS LINE
---	EXISTING OVERHEAD WIRE
---	PROPOSED PAVING/PATH
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	SILT FENCE
---	DIVERSION FENCE
---	EXISTING TREE LINE
---	SOIL LINES AND TYPES
---	BIO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
---	DENOTES EXISTING TREES TO REMAIN
---	CRITICAL ROOT ZONE
---	STABILIZED CONSTRUCTION ENTRANCE

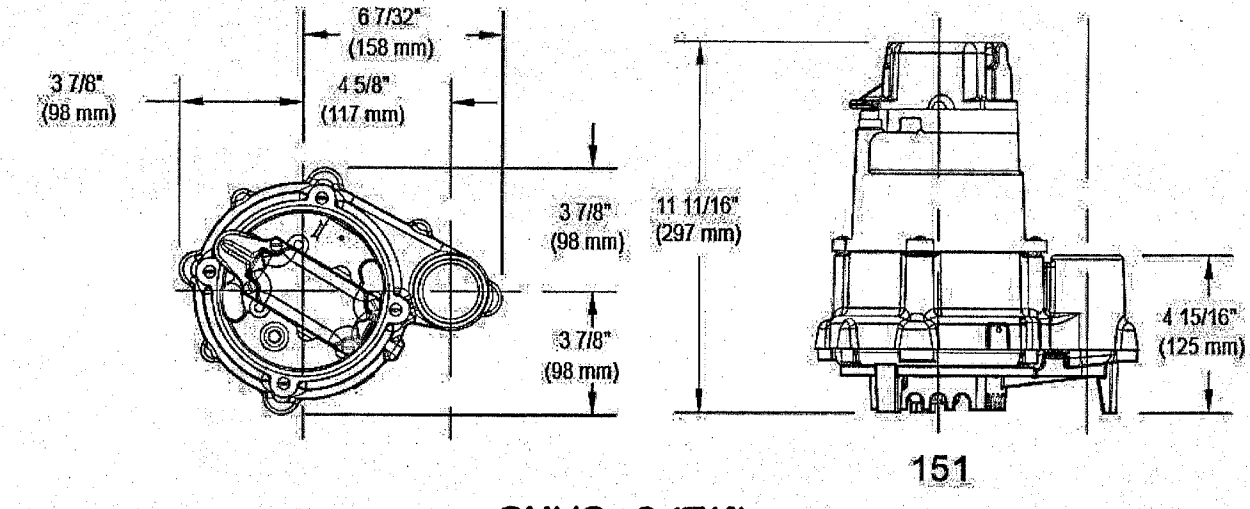


**SPECIFICATIONS**  
 5000PSI WITH SUPER PLASTICIZER  
 BOTTOM AND SIDES ARE REINFORCED WITH 6X6X10 GAUGE WIRE  
 TOP IS REINFORCED WITH 1/2" GRADE 60 REBAR ON 12" CENTERS  
 POLYLOK III PRESSURE RATED RUBBER SEALS AVAILABLE UPON REQUEST

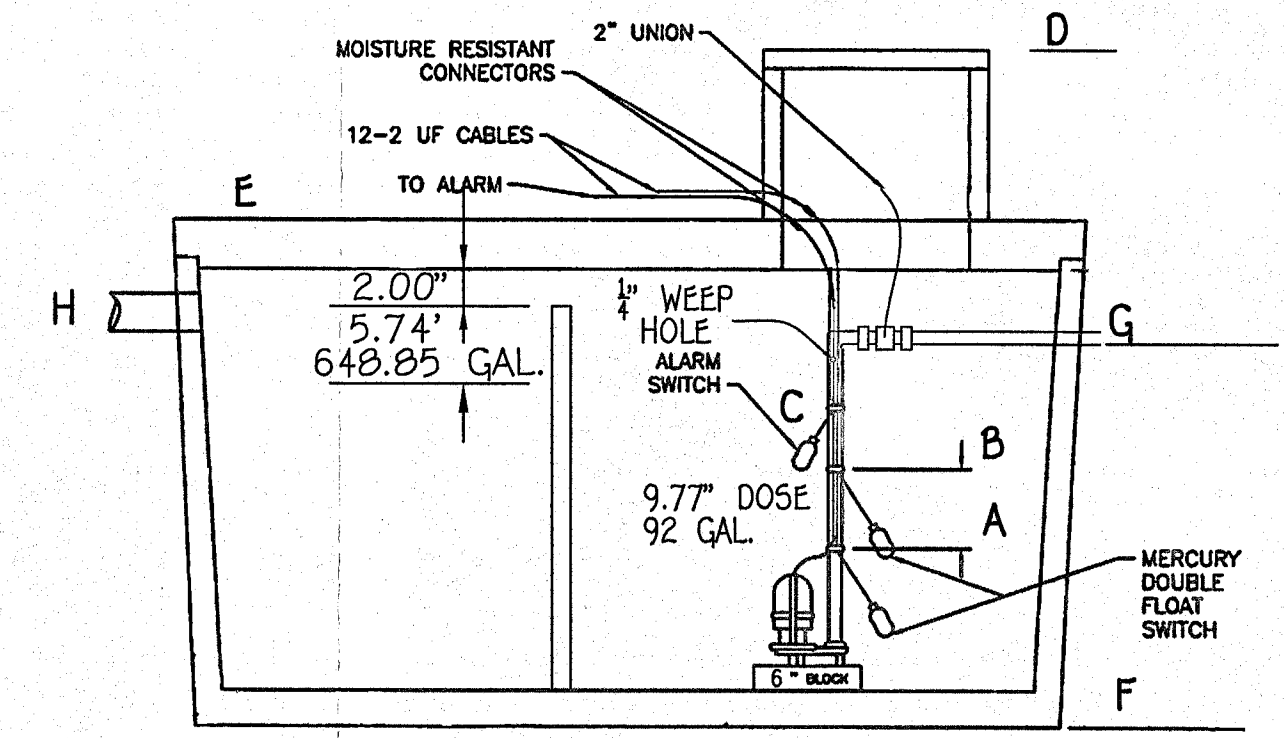
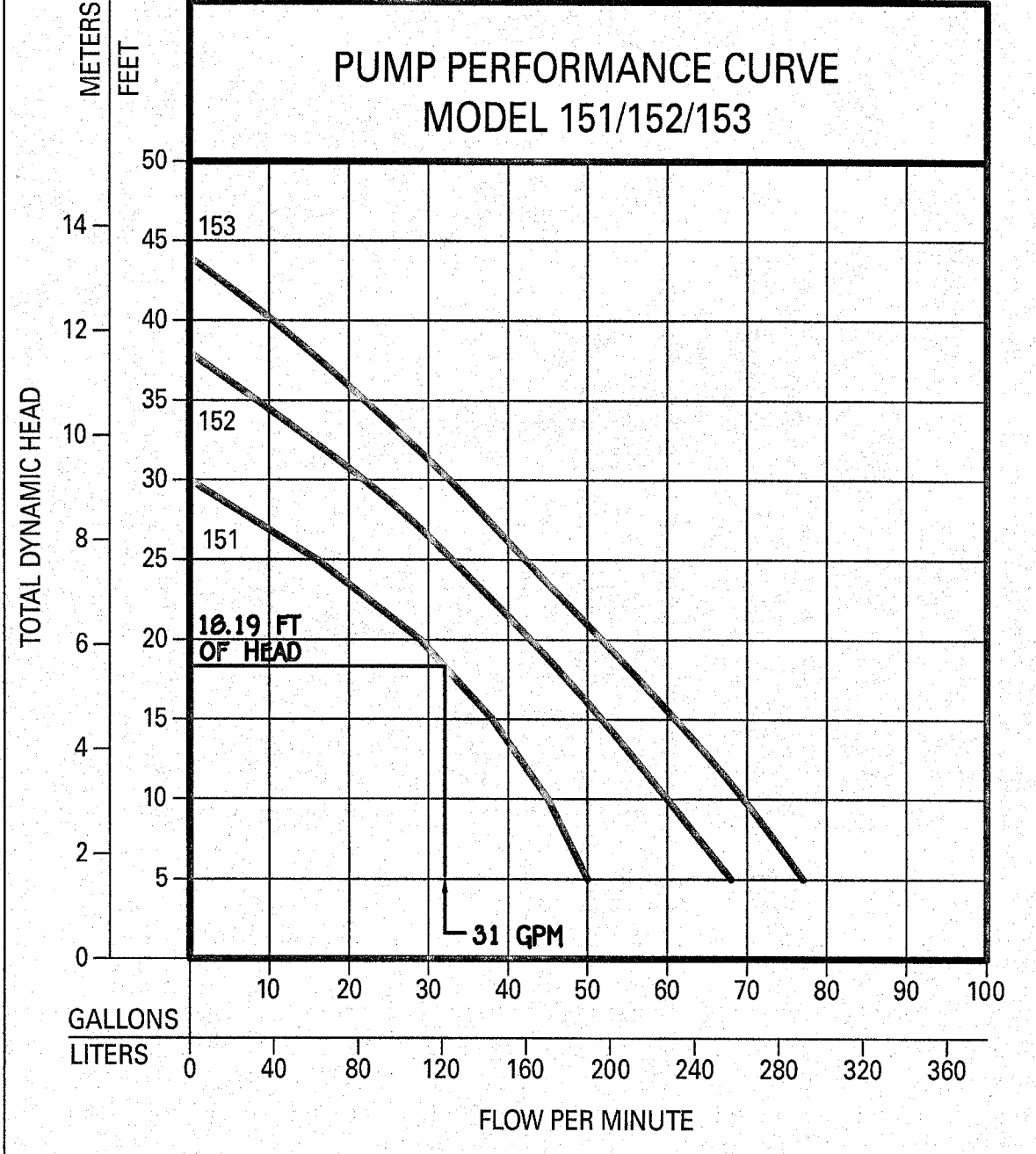
REVISION SUMMARY			
NO.	DATE	REVISION DESCRIPTION	DESIGNER/CHECKER
1	5/4/13	ISSUED FOR CONSTRUCTION	MM/TJS
2			
3			
4			
5			
6			
7			
8			

Maryland Concrete Inc.  
 1000 GALLON 2 COMPARTMENT SEPTIC TANK  
 DRAWN: JMH 5/4/13  
 CHECKED: TJS  
 SCALE: No. MC011

SCALE: 1" = 50'



PUMP DETAIL



**PUMP TANK DETAIL**  
 648.85 GAL EMERGENCY STORAGE  
 NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.

2" SCH. 40 PVC = 408 LF  
 1 UNION @ 2 EQUIVALENT FEET = 2 LF  
 3 1/8 HD @ 4 EQUIVALENT FEET = 12 LF  
 TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 422 LF

**DYNAMIC HEAD**  
 422 LF X 2.05 FT PER 100 LF OF 2" PIPE = 8.65 FT OF FRICTION HEAD  
 VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 2.17 FT OF HEAD  
 HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV. OF SYSTEM = 7.37 FT (INVERT OF WYE CONNECTION IS THE HIGHEST POINT)  
 TOTAL DYNAMIC HEAD = 18.19 FT

1/6 DESIGN FLOW (150/6=25) PLUS VOLUME OF 2" PIPE (67 GALLONS)  
 USE 92 GALLON DOSE (25 GALLON MINIMUM)  
 RUN TIME = 2.96 MIN (31 GPM X 2.96 = 92 GALLON DOSE)

PUMP NEEDS TO HANDLE 31 GPM AT 18.19 FT OF HEAD  
 USE 0.3 HP (ZOELLER MODEL 151 PUMP)

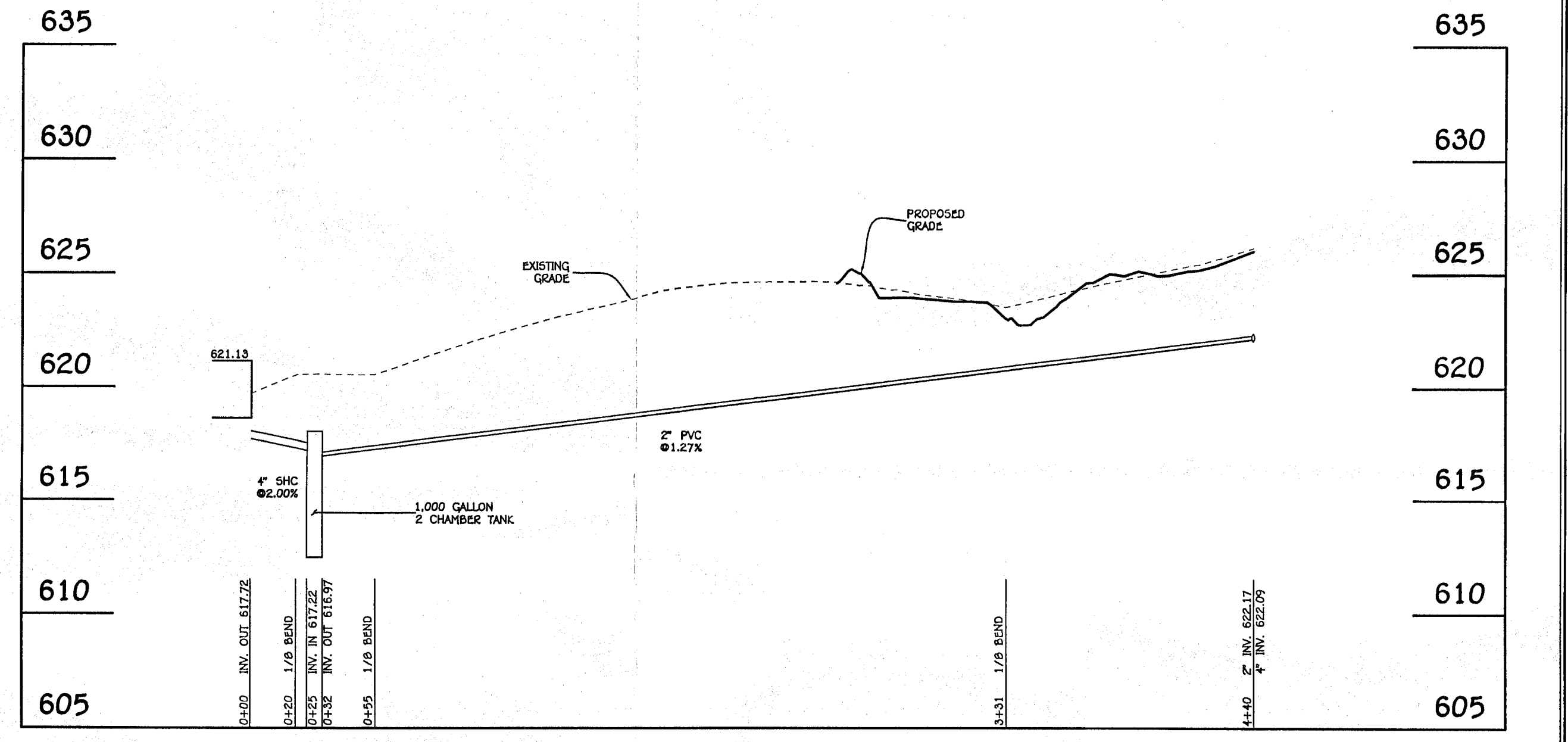
**PUMP ALARMS / INFORMATION**

A PUMP OFF : 614.80'	FF 621.13
B PUMP ON : 615.61'	INV. OUT OF HOUSE = 617.72
C HIGH WATER ALARM : 616.11'	EX. GROUND AT PUMP TANK = 620.55
D TOP OF ACCESS COVER : 622.35'	TOP OF PUMP TANK = 622.35
E TOP OF TANK : 622.35'	INV. INTO PUMP TANK = 617.22
F BOTTOM OF TANK : 612.47'	WEIR INV. IN PUMP TANK = 621.85
G DISCHARGE OUT OF TANK : 616.97'	INV. OUT OF PUMP TANK = 616.97
H WEIR INTO TANK : 621.85'	EX. GROUND AT WYE CONNECTION = 626.12
	4" INV. AT WYE CONNECTION = 622.09
	2" INV. AT WYE CONNECTION = 622.17

**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. 20746, EXPIRATION DATE: 02/22/2025.  
 Signature of Professional Engineer: [Signature]  
 DATE: May 23, 2023

ONE TWO CHAMBER  
 1,000-GAL PUMP TANK  
 W/ ZOELLER BN151  
 PUMP OR EQUAL TO  
 GRAVITY DISTRIBUTION FOR  
 ONE HAND SINK AND  
 TOILET

NOTE: SEPTIC SYSTEM ALARM WILL BE ON A CIRCUIT SEPARATE FROM ANY OTHER SEPTIC SYSTEM COMPONENTS OR ALARMS.



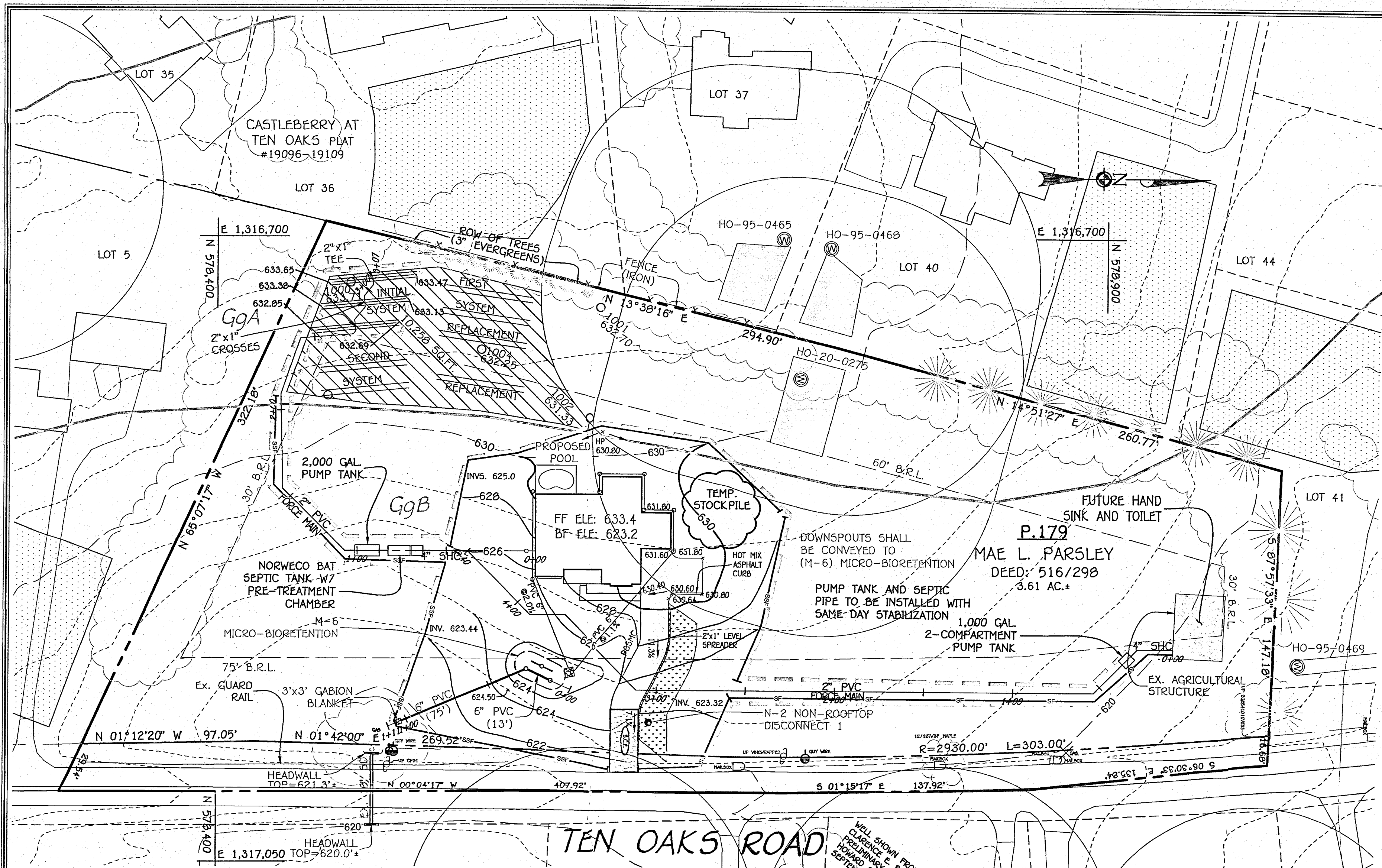
**PROFILE**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 10000 CENTENNIAL SQUARE OFFICE PARK - 10275 BALDORRE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2293



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 LIVING TRUST ABDALLA BASHEER  
 TRUSTEE  
 10904 KATHLEEN COURT  
 COLUMBIA, MARYLAND 21044

**SEPTIC SYSTEM  
 INSTALLATION SITE PLAN  
 MAE PARSLEY PROPERTY**  
 4196 TEN OAKS ROAD  
 ZONING: RR-DEO  
 TAX MAP No. 22 GRID No. 20 PARCEL No. 179  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: MAY, 2023  
 SHEET 2 OF 2

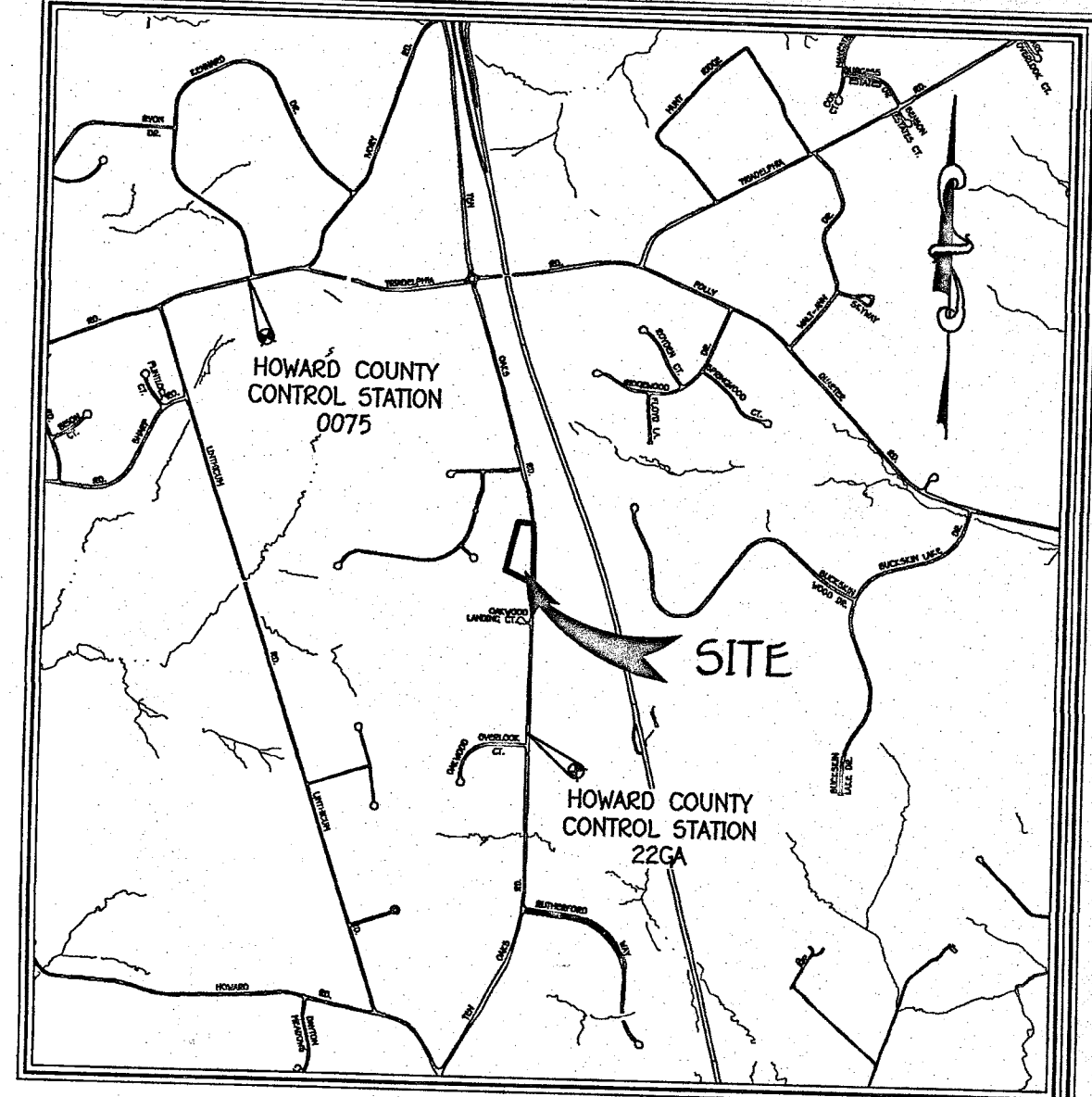


LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
X448.5	SPOT ELEVATION
EX. 48" S	EXISTING STORM DRAIN
---	PROPOSED STORM DRAIN PIPE
---	EXISTING CABLE LINE
---	EXISTING GAS LINE
---	EXISTING OVERHEAD WIRE
---	PROPOSED PAVING/PATH
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	SILT FENCE
---	DIVERSION FENCE
---	EXISTING TREE LINE
---	SOIL LINES AND TYPES
---	BIO RETENTION FACILITY (F-6) OR (H-6) AS NOTED
---	PROPOSED ROOF LEADER
---	DENOTES EXISTING TREES TO REMAIN
---	CRITICAL ROOT ZONE
---	STABILIZED CONSTRUCTION ENTRANCE

**INITIAL SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA - INITIAL SYSTEM  
 6 BEDROOMS  
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM + 150 GPD = 1050 GPD  
 APPLICATION RATE = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 5 FEET  
 TRENCH DEPTH = 8 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3 FEET  
 SF OF DRAINFIELD = 1050 GPD / 1.2 = 875 SF  
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+2(3)) = 0.50$   
 TRENCH LENGTH = 875 SF X 0.50 / 3 = 145 FEET  
 3 TRENCHES AT 49'  
 TRENCH SPACING = 20+W = (2(3) + 3) = 9' USE 10'

**1ST REPLACEMENT SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA - INITIAL SYSTEM  
 6 BEDROOMS  
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 APPLICATION RATE = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 5 FEET  
 TRENCH DEPTH = 8 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3 FEET  
 SF OF DRAINFIELD = 1050 GPD / 1.2 = 875 SF  
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+2(3)) = 0.50$   
 TRENCH LENGTH = 875 SF X 0.50 / 3 = 145 FEET  
 3 TRENCHES AT 49'  
 TRENCH SPACING = 20+W = (2(3) + 3) = 9' USE 10'

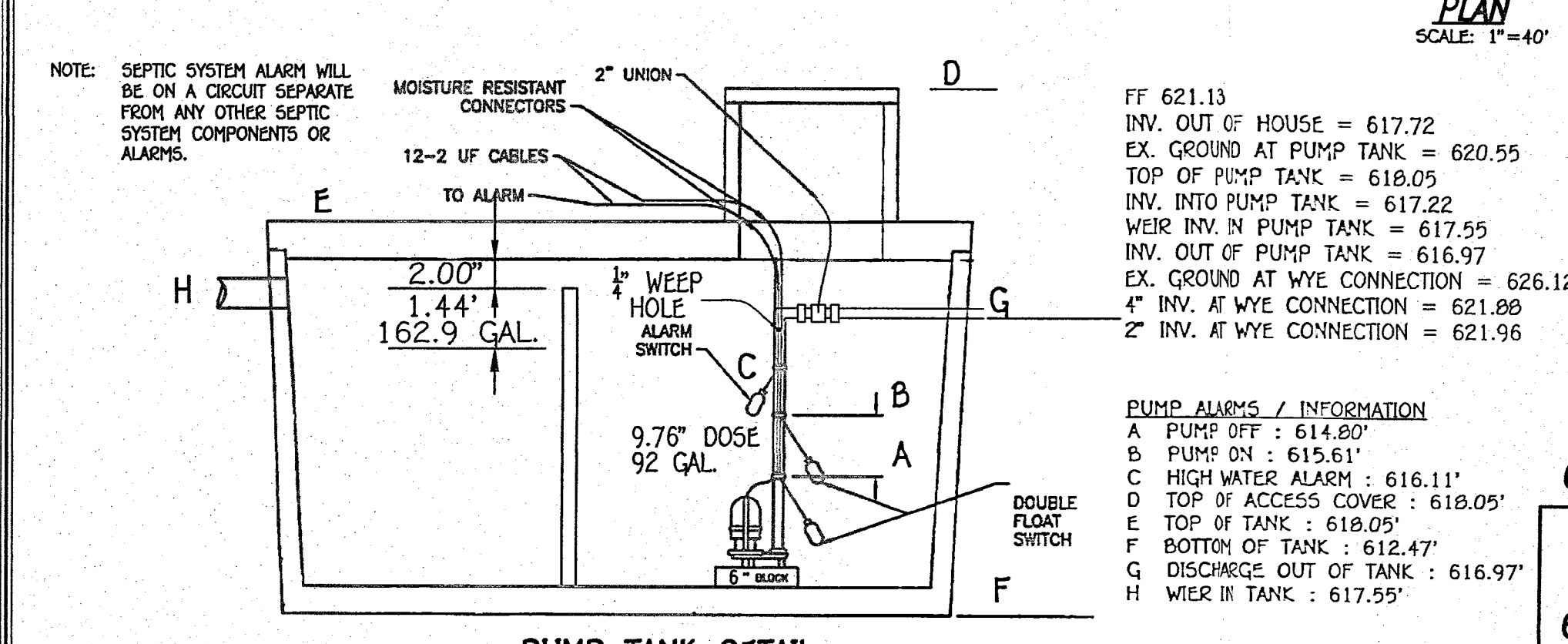
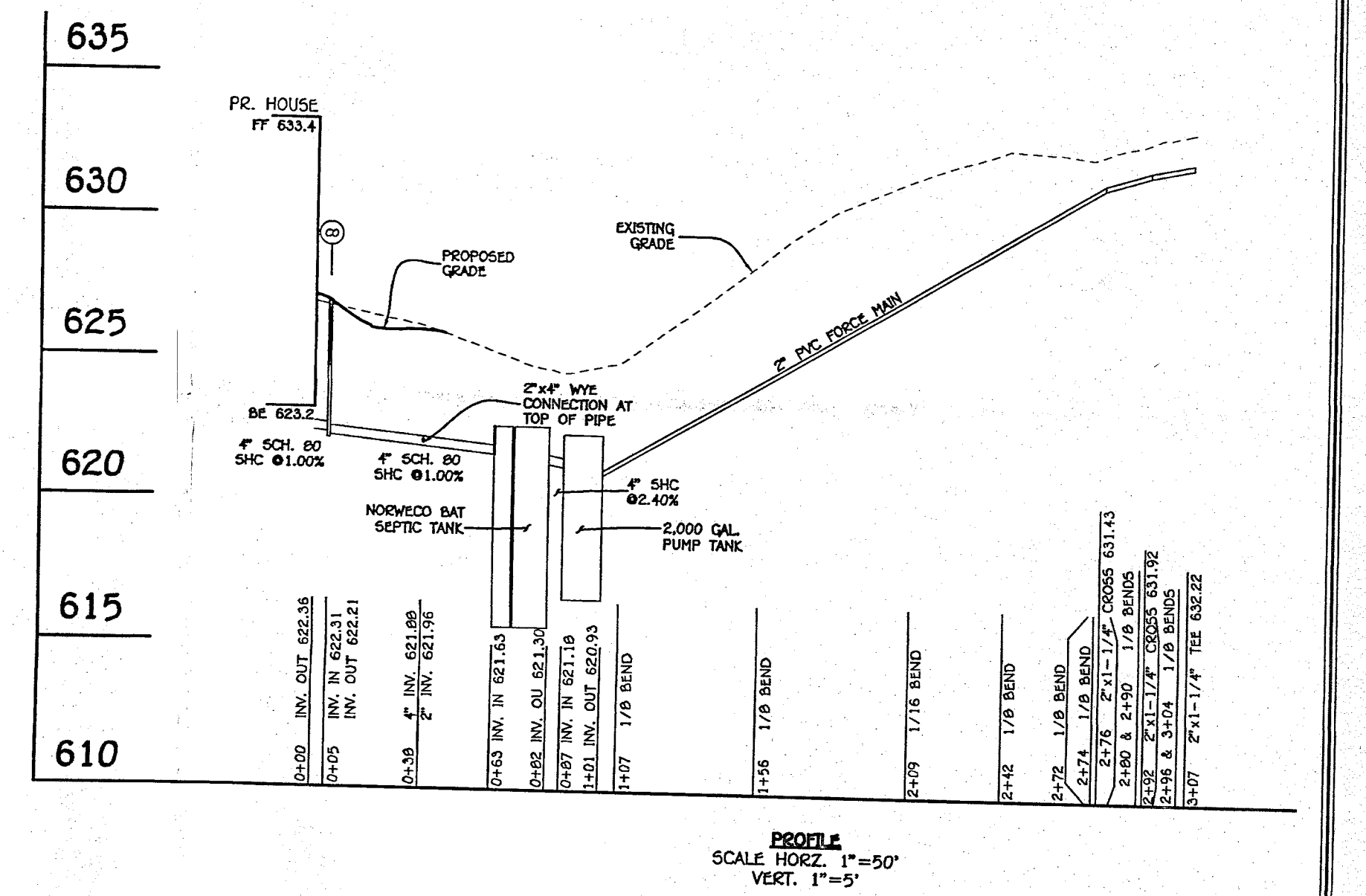
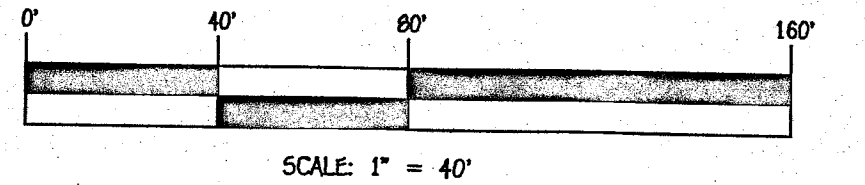
**2ND REPLACEMENT SYSTEM**  
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 TRENCH LENGTH = 875 SF X 0.50 / 3 = 145 FEET  
 3 TRENCHES AT 49'  
 TRENCH SPACING = 20+W = (2(3) + 3) = 9' USE 10'



REFER TO HOWARD CO. ADC MAP PAGE 24, D2  
**VICINITY MAP**  
 SCALE: 1" = 2000'  
**GEODETIC CONTROL STATIONS**

#22GA ELEV. 589.231 N. 576.646.79 E. 1,316.983.52	#0075 ELEV. 614.07 N. 581.669.20 E. 1,313,719.39
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- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- WELL HO-20-0275 HAS BEEN FIELD LOCATED.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- THE ENGINEER IS REGISTERED WITH MDE TO PROVIDE ON-SITE WASTEWATER SERVICES IN MARYLAND.
- THE SYSTEM IS DESIGNED IN ACCORDANCE WITH MD DEPARTMENT OF THE ENVIRONMENT CRITERIA FOR SHALLOW-PLACED PRESSURE DOSED BAT CLASS IV APPROVAL.



**PUMP TANK DETAIL**  
 162.9 GAL EMERGENCY STORAGE

NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.

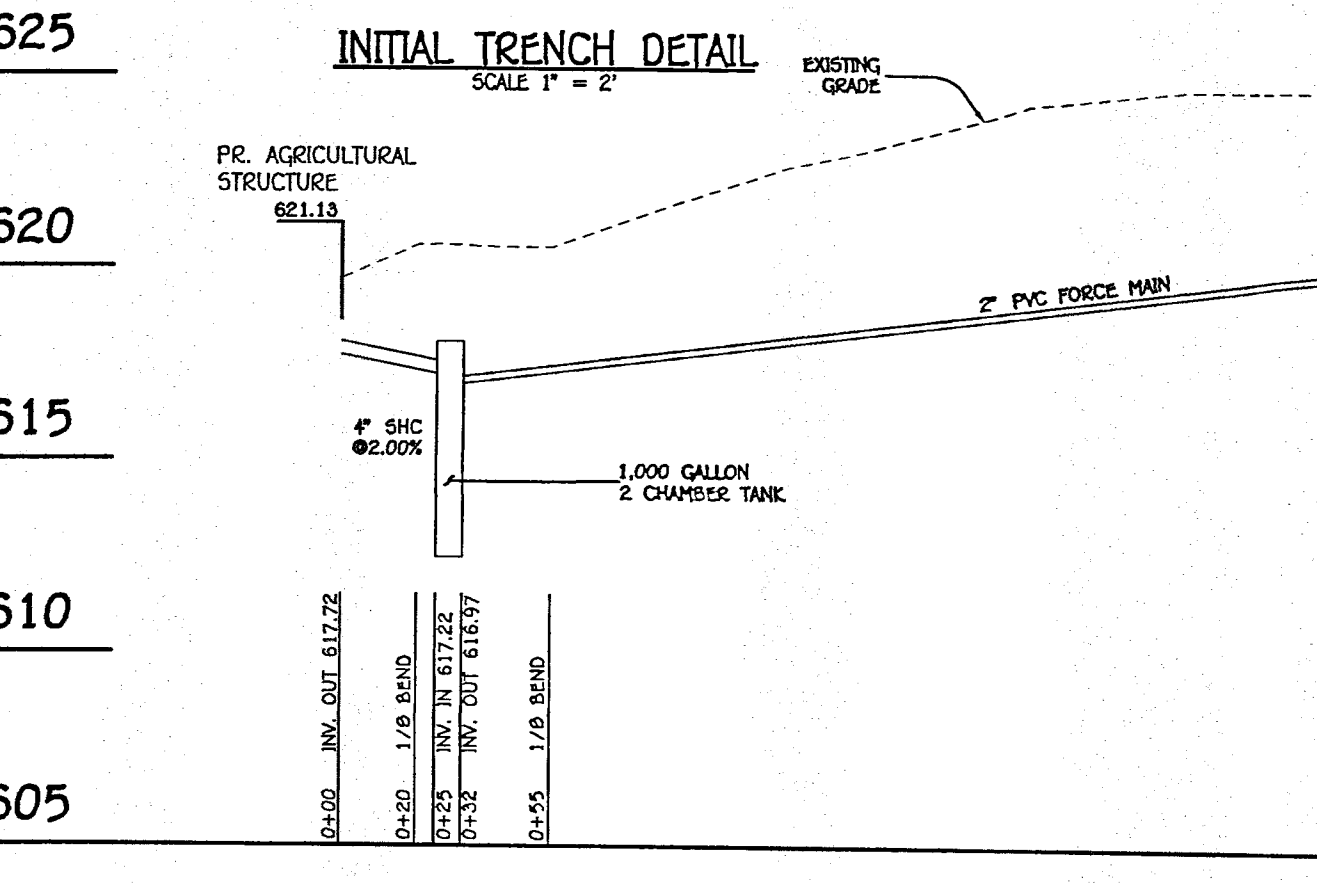
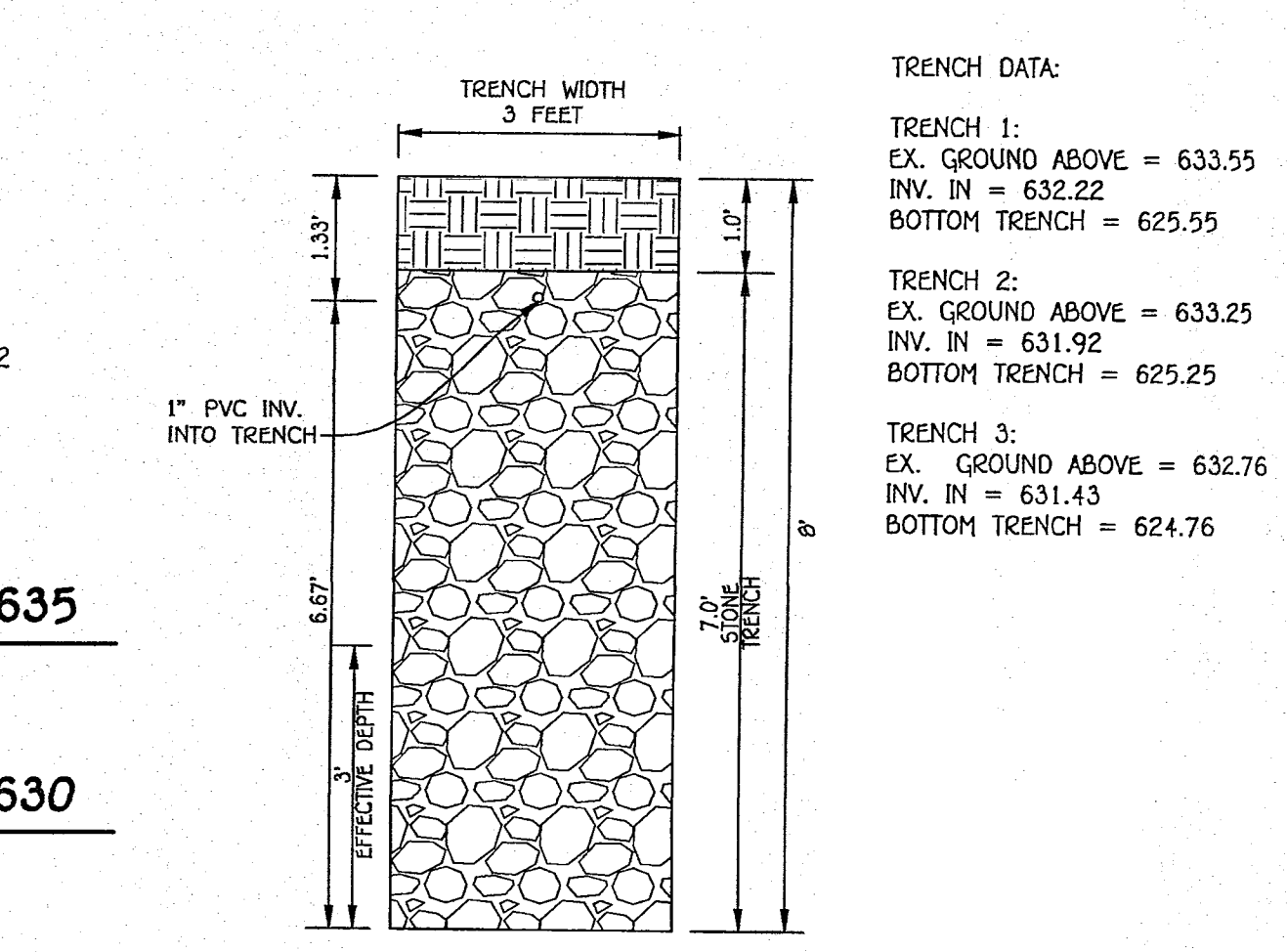
2" SCH. 40 PVC = 408 LF  
 3 1/8 HB @ 4 EQUIVALENT FEET = 2 LF  
 TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 422 LF

**DYNAMIC HEAD**  
 422 LF X 2.05 FT PER 100 LF OF 2" PIPE = 8.65 FT OF FRICTION HEAD  
 VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 2.17 FT OF HEAD  
 HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV OF SYSTEM = 5.01 FT (INVERT OF WYE CONNECTION IS THE HIGHEST POINT)  
 TOTAL DYNAMIC HEAD = 15.83 FT

1/6 DESIGN FLOW (150/6=25) PLUS VOLUME OF 2" PIPE (67 GALLONS)  
 USE 92 GALLON DOSE (25 GALLON MINIMUM)  
 RUN TIME = 2.49 MIN (37 GPM X 2.49 = 92 GALLON DOSE)

PUMP NEEDS TO HANDLE 37 GPM AT 16.04 FT OF HEAD  
 USE 0.3 HP (ZOELLER MODEL 151 PUMP)

**PUMP ALARMS / INFORMATION**  
 A PUMP OFF : 614.80'  
 B PUMP ON : 615.61'  
 C HIGH WATER ALARM : 616.11'  
 D TOP OF ACCESS COVER : 618.05'  
 E TOP OF TANK : 618.05'  
 F BOTTOM OF TANK : 612.47'  
 G DISCHARGE OUT OF TANK : 616.97'  
 H WIER IN TANK : 617.55'



**TRENCH DATA:**

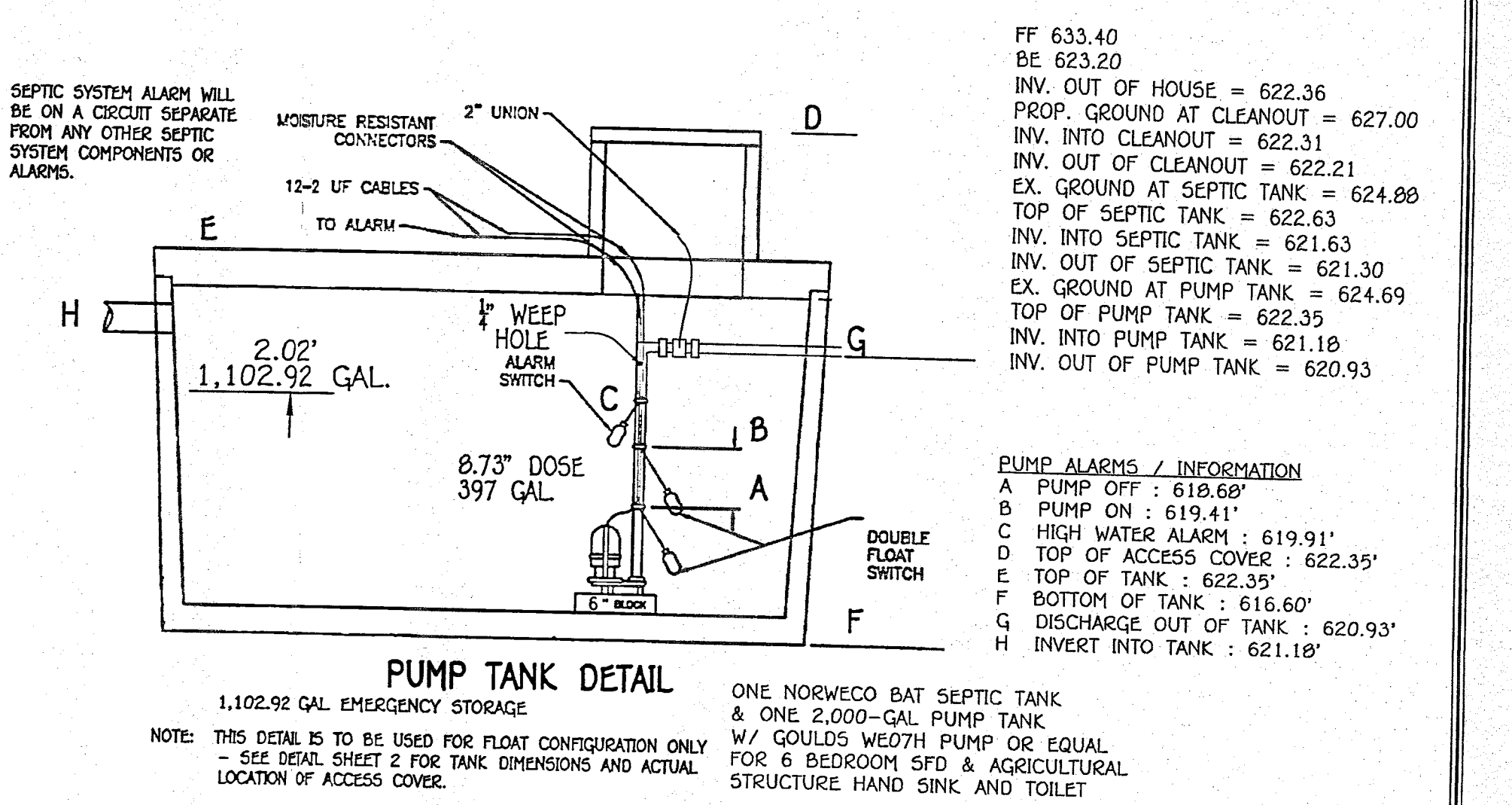
**TRENCH 1:**  
 EX. GROUND ABOVE = 633.55  
 INV. IN = 632.22  
 BOTTOM TRENCH = 625.55

**TRENCH 2:**  
 EX. GROUND ABOVE = 633.25  
 INV. IN = 631.92  
 BOTTOM TRENCH = 625.25

**TRENCH 3:**  
 EX. GROUND ABOVE = 632.76  
 INV. IN = 631.43  
 BOTTOM TRENCH = 624.76

**BAT NOTES**

- THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE SET-UP CONFIGURATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
- SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.
- NO BUILDING PERMIT SHALL BE APPROVED UNTIL THE SEPTIC SYSTEM IS INSTALLED AND INSPECTED BY THE HOWARD COUNTY HEALTH DEPARTMENT.



**PUMP TANK DETAIL**  
 1,102.92 GAL EMERGENCY STORAGE

NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL SHEET 2 FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.

ONE NORWECO BAT SEPTIC TANK & ONE 2,000-GAL PUMP TANK  
 W/ GOULDS WE07H PUMP OR EQUAL  
 FOR 6 BEDROOM SFD & AGRICULTURAL STRUCTURE HAND SINK AND TOILET

**PUMP ALARMS / INFORMATION**  
 A PUMP OFF : 618.60'  
 B PUMP ON : 619.41'  
 C HIGH WATER ALARM : 619.91'  
 D TOP OF ACCESS COVER : 622.35'  
 E TOP OF TANK : 622.35'  
 F BOTTOM OF TANK : 616.60'  
 G DISCHARGE OUT OF TANK : 620.93'  
 H INVERT INTO TANK : 621.18'

**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. 27020, EXPIRATION DATE: 01/25/2026.

*Michael G. Galloway*  
 Signature of Professional Engineer DATE: 11/20/23

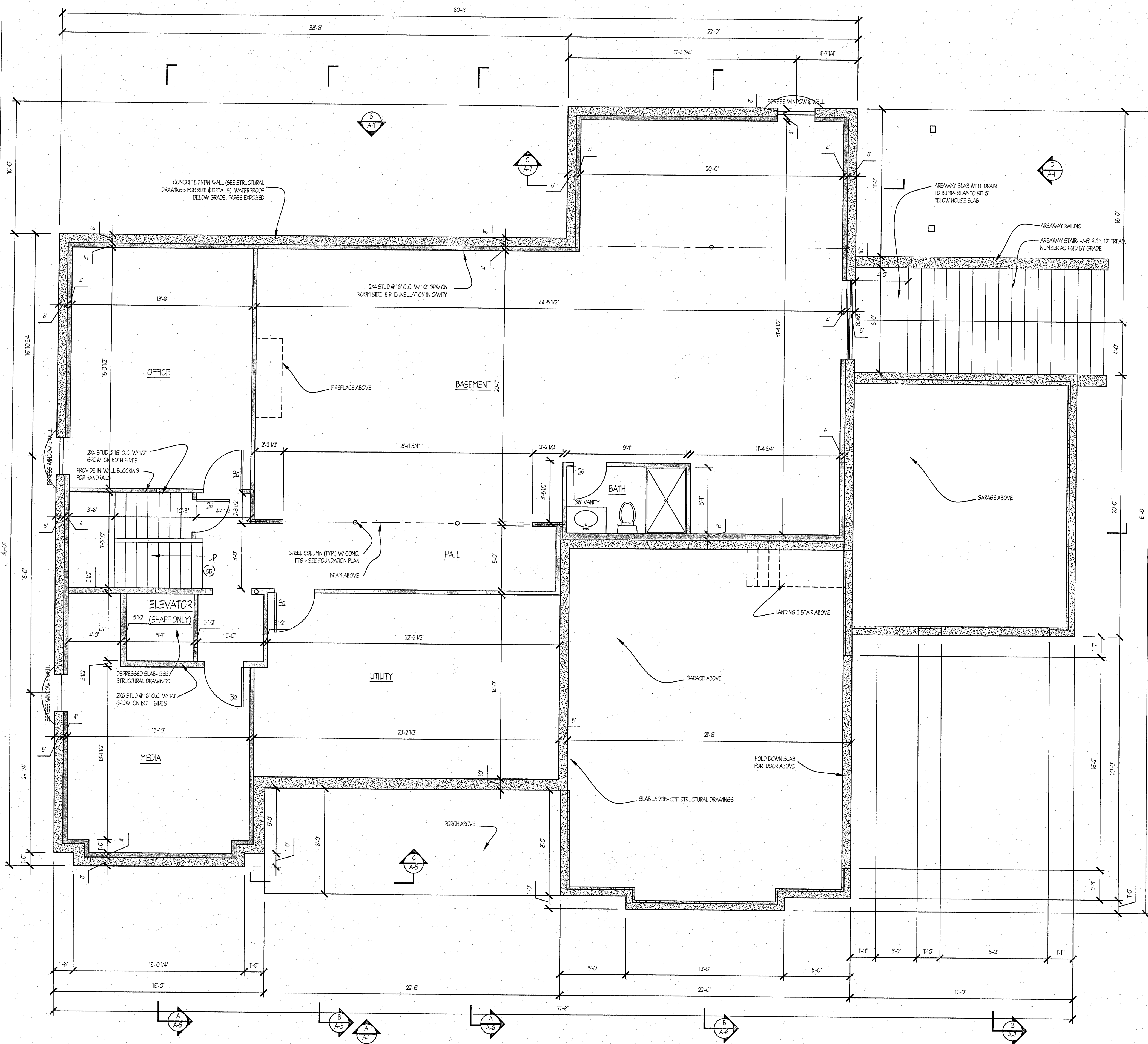
**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FIDELITY  
 BILKOTT CITY, MARYLAND 21142  
 (410) 461-2225

**OWNERS/BUILDERS**

TRUSTEES INNALELLAH REVOCABLE LIVING TRUST ABODLA BASHEER TRUSTEE  
 10904 KATHLEEN COURT  
 COLUMBIA, MARYLAND 21044

**SEPTIC SYSTEM INSTALLATION SITE PLAN**  
**MAE PARSLEY PROPERTY**  
 4195 TEN OAKS ROAD  
 ZONING: R2-DEO  
 GRID No. 20 PARCEL No. 179  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: NOVEMBER, 2023  
 SHEET 1 OF 2

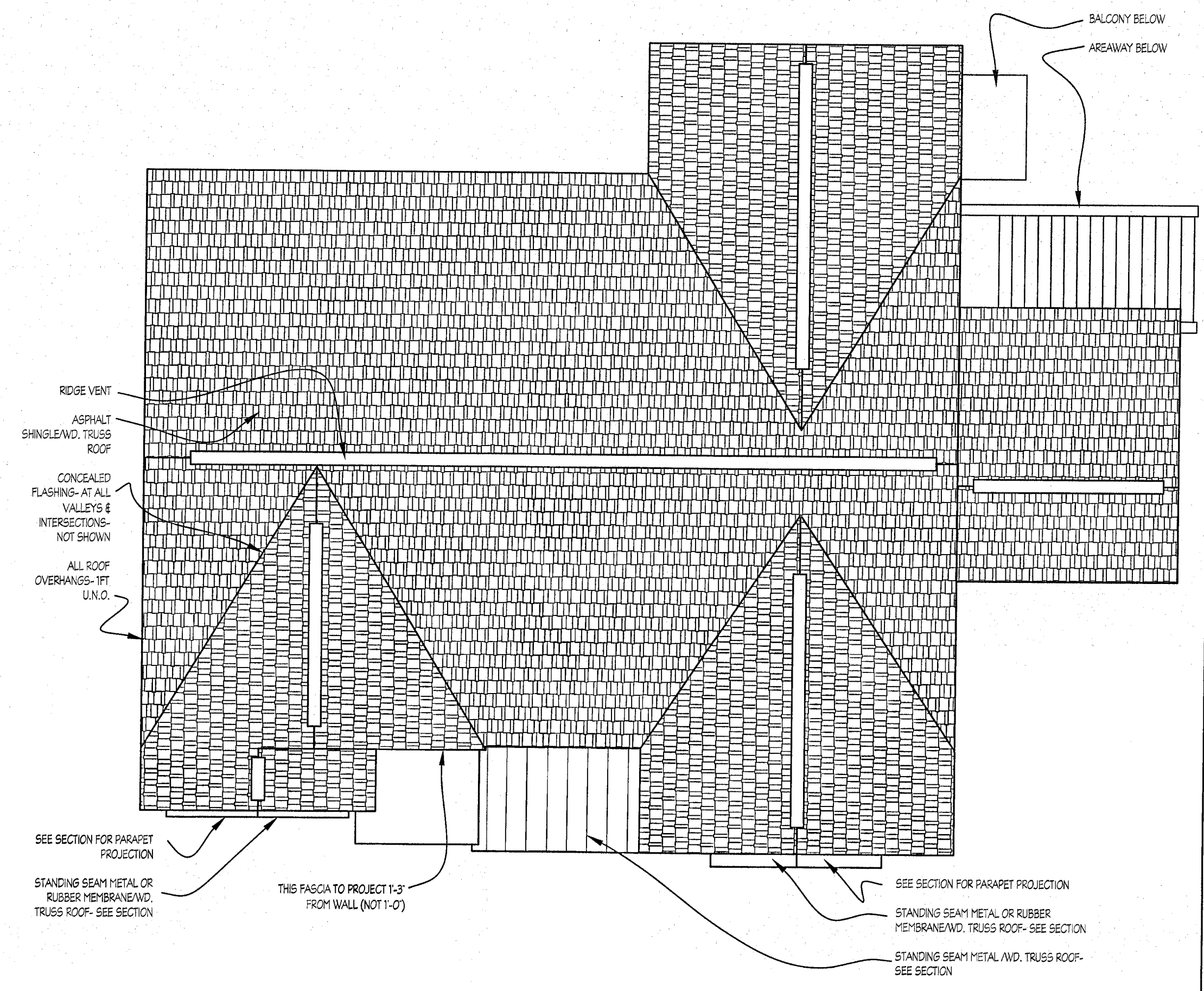




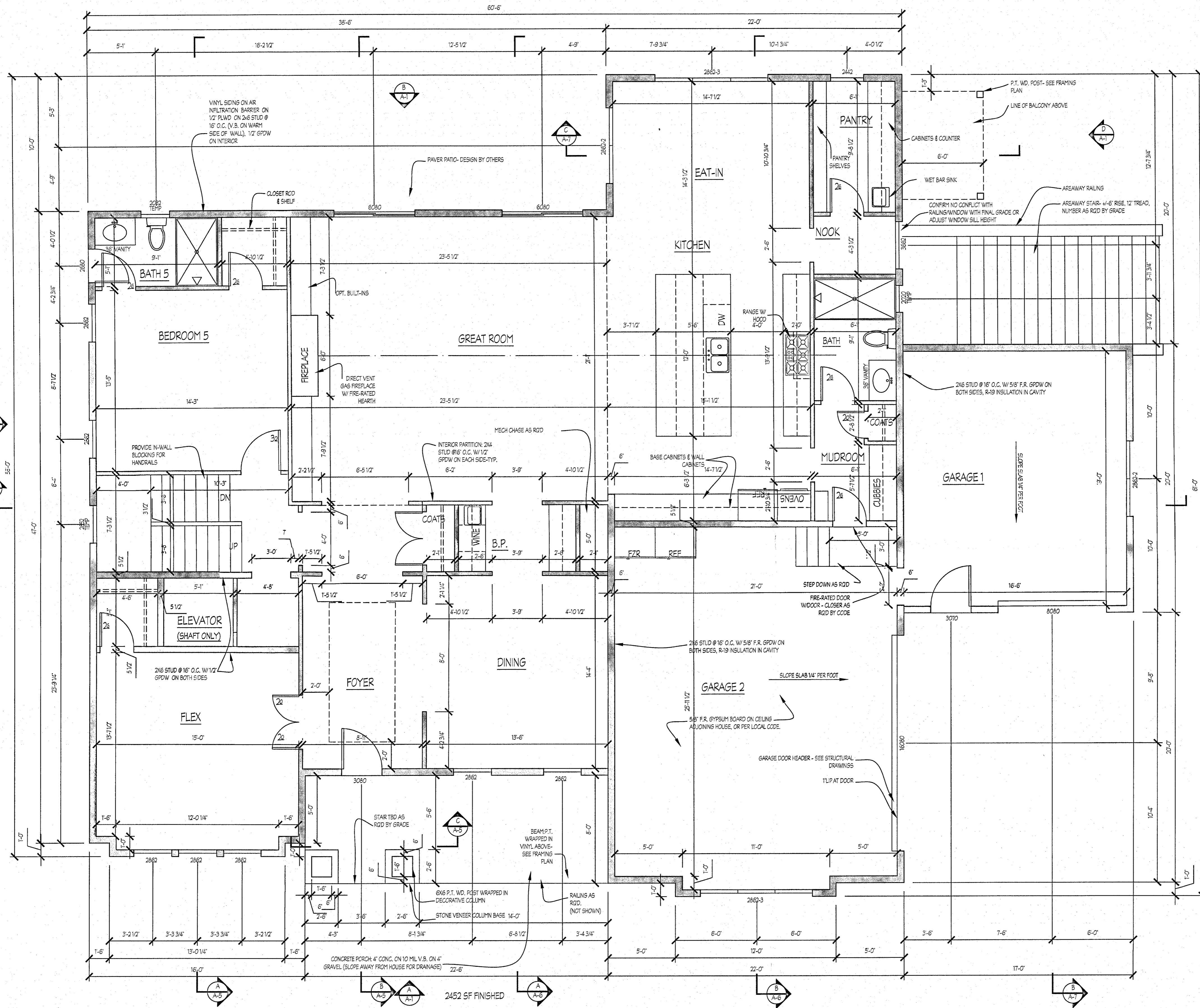
**A** BASEMENT PLAN  
A-2 1/4" = 1'-0"

WHERE STRUCTURAL DIMENSIONS DISCREPANCIES EXIST BETWEEN ARCHITECTURAL & STRUCTURAL DRAWINGS, CONTACT ARCHITECT IMMEDIATELY FOR GUIDANCE

**B** ROOF PLAN  
A-2 1/8" = 1'-0"



REV. DESCRIPTION	DATE	APPROVED FOR RELEASE TO:	OWNER
		<input type="checkbox"/> Permit <input type="checkbox"/> Bid/Negotiation <input type="checkbox"/> Construction <input type="checkbox"/> Other	DATE
<small>THE OFFICE OF BLUEHOUSE ARCHITECTS, LLC ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR FOR THE COMPLETENESS OF EXISTING CONDITIONS AS SHOWN ON THESE DRAWINGS. ALL FEATURES AND DIMENSIONS SHOULD BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING WORK.</small>		<small>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. License No. 145175 Expiration Date: 02-07-2022</small>	
DRAWING TITLE <b>BASEMENT PLAN, ROOF PLAN</b> 4186 TEN OAKS ROAD, DAYTON, MARYLAND		SCALE: AS NOTED DATE: 02/12/23 FILE NO.: 23014-002 PROJ. NO.: 23014 DRAWING NO.: A-2 2 OF 7	
		<small>FOR USE AT 4186 TEN OAKS ROAD DAYTON ONLY</small>	



**A-3 FIRST FLOOR PLAN**

PROVIDE TEMPERED WINDOWS & FALL PROTECTION AS RQ'D BY CODE

1/4" = 1'-0" ALL INTERIOR DIMENSIONS TAKEN TO THE FACE OF 2X4 STUD U.N.O. ALL EXTERIOR DIMENSIONS TAKEN TO THE FACE OF 1/2" PLWD. ON 2X6 STUD U.N.O.

Approved for release to: <input type="checkbox"/> Permit <input type="checkbox"/> Bid/Negotiation <input type="checkbox"/> Construction <input type="checkbox"/> Other:		Owner _____ Date _____
REV. DESCRIPTION DATE	AS NOTED DATE: 08/21/2023 FILE NO.: 23014-CD2 PROJ. NO.: 23014 DRAWING NO.: A-3 SHEET NO.: 3 of 7	
DRAWING TITLE <b>FIRST FLOOR PLAN</b> 4186 TEN OAKS ROAD, DAYTON, MARYLAND		
PROFESSIONAL CERTIFICATION: I certify that these documents were prepared or approved by me, and filed in a duly licensed architect under the laws of the State of Maryland, License No. 14610, Expiration Date: 02-07-2025.		
1000 Barney Road Marriottsville, Maryland 21104 mear@bhushanarch.com www.bhushanarch.com Phone: 410-548-5377 Fax: 410-548-5377		SEAL  FOR USE AT 4186 TEN OAKS ROAD DAYTON MD