

Approved R/E  
5/20/2024

Record Detail \* (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Commercial/Misc/NA	B24000796	03/08/2024
Description of Work		
MT ZION UNITED METHODIST CHURCH/CONSTRUCT 70' X 40', 2800 SQ.FT. OPEN PAVILION ON PROPERTY. CONDITIONAL USE: BA 23-025C		

[check spelling](#)

Address \* (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type	
12430	SCAGGSVILLE	RD	
Unit Type	Unit #	X Coordinate	Y Coordinate
-Select-		-76.94433	39.16754
City	State	Zip Code	Primary
HIGHLAND	MD	20777	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
917845		10.31	1684100	2358800	674700	RURAL
Legal Description						
IMPS10.3146 A[ ]12430 SCAGGSVILLE RD[ ]HIGHLAND						

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
		605102	4				
Plan Area	State Tax Id		Subdivision Name				
	1405376157						
Section	Area		Tax Map				
			40				
Grid	Zoning District		ADC Map				
40-18	RR-DEO		5051-J4				
SDP No.	Final Plan No.		WP File No.				
SDP-00-098							
Record Plat No.	WS Contract No.		FDP No.		Primary		
					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				
	5-15A		<input type="radio"/> Yes <input checked="" type="radio"/> No				
Building No							

Owner (This section is not required.)

Search Reset Clear

Name \*

MT ZIC

Address Line 1

12430 SCAGGSVILLE RD

Address Line 2

Address Line 3

Mail City

HIGHLAND

Mail State

MD

Mail Zip Code

20777

Phone

443-718-8464

Primary

Yes

E-mail

Cell Number      Fax Number

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

**License #** \* 08010020247  
**License Type** \* MHIC Ind  
**Primary** Yes

**Business Name** PRO BUILT CONSTRUCTION

**First Name** EDWARD      **Middle Name**      **Last Name** PACYLOWSKI

**Address Line 1** 13330 CLARKSVILLE PIKE  
**Address Line 2**

**City** HIGHLAND      **State** MD      **ZIP Code** 20777

**Phone 1** 3018540821      **Phone 2**      **Fax** 3018549632

**E-mail** JESSICA@PROBUILTCONSTRUCTION.COM

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

**Search**      **As Owner**      **As Lic. Prof**      **As Contact**

**Type** \* Applicant  
**Relationship** Applicant  
**Primary** No

**First Name** EDWARD      **MI** J      **Last Name** PACYLOWSKI

**Full Name** EDWARD J PACYLOWSKI  
**Organization Name** PROBUILT CONSTRUCTION, INC.  
**Street Address** 13330 CLARKSVILLE PIKE  
**Address Line 2**

**City** HIGHLAND      **State** MD      **Zip Code** 20777

**Phone** 301-854-0821      **Cell** 301-854-9632      **Fax**

**E-mail** office@probuiltconstruction.com

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

**Search**      **As Owner**      **As Lic. Prof**      **As Contact**

**Type** Contact  
**Relationship** Licensed Professional  
**Primary** Yes

**First Name** Xiaodong      **MI**      **Last Name** Feng

**Full Name** Xiaodong Feng  
**Organization Name**

**Street Address** 8057 Veterans Hwy  
**Address Line 2**

**City** Millersville      **State** MD      **Zip Code** 21108

**Phone** 410-969-4444      **Cell**      **Fax**

**E-mail** dfeng@fencedeckconnect.com

**Addtl Info**

**Est Construction Cost** \* 127500      **Housing Units** \* 0      **Number of Buildings** \* 0      **Public Owned** No

**Construction Type** --Select--

**COMMERCIAL PERMIT INFORMATION**

**BUILDING INFORMATION**

**Expedited Review**      **Capital Project-No Fee**      **Capital Project Number** (Text)      **Fee Exempt**      **Fee Exempt Group** --Select--

Yes  No   
  Yes  No   
 Roadside Tree Permit   
 Roadside Tree Project Permit  Yes  No   
 Road Frontage   
 Existing Church

Yes  No   
 Yes  No   
 Yes  No   
 (Text)   
 --Select--   
 --Select--

Use Group \*   
 Number of Solar Panels   
 Tenant \*   
 Assembly   
 Minor Alteration \*

Church/Religious Building   
 (Number)   
 Mt Zion United Methodist Chu (Text)   
 Yes  No   
 Yes  No

Revision Fees?   
 Height   
 No of Stories   
 Gross Area - Sq Foot Per Floor   
 Area of Construction - SQ FT \*   
 Downtown Tax \$

Yes  No   
 FT (Number)   
 (Number)   
 SQFT (Number) 2800   
 SQFT (Number)

Excise Tax at \$0.60 SQ FT   
 Excise Tax at \$1.17SQ FT   
 Construction Type   
 State Certified Module   
 Expiration Date

Yes  No   
 SQFT (Number)   
 SQFT (Number)   
 --Select--   
 Yes  No   
 10/29/2024

U&O Issued On   
 U & O Comments

[check spelling](#)

UTILITY INFORMATION

Water Supply \*   
 Sewage Disposal \*   
 Utilities \*   
 Heating System \*   
 Geothermal \*   
 Sprinkler System \*

Private   
 Private   
 Electric   
 Other - See Descripti   
 Yes  No   
 None

GREEN BUILDING INFORMATION

Goal Level   
 Actual Level   
 Leed Registration Number   
 Date of Leed Certification

--Select--   
 --Select--   
 (Text)

Submit    Cancel

BENCHMARKS:

HOWARD COUNTY ZONING CONTROL #407A
ELEVATION: 467.782'
CONCRETE MONUMENT SET 0.25' BELOW SURFACE, APPROXIMATELY 800' SOUTH OF THE HOWLAND DRIVE/BROWNS BRIDGE ROAD INTERSECTION...

HOWARD COUNTY ZONING CONTROL #407B
ELEVATION: 264.114'
CONCRETE MONUMENT SET 7 1/4' BELOW SURFACE, APPROXIMATELY 100' NORTH OF MD 216 (SCAGGSVILLE ROAD)/HALL SHOP ROAD INTERSECTION...

GENERAL NOTES:

- 1. The building footprint is shown in red.
2. The building footprint is shown in red.
3. The building footprint is shown in red.
4. The building footprint is shown in red.

- 5. The building footprint is shown in red.
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- 26. The building footprint is shown in red.
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- 29. The building footprint is shown in red.
30. The building footprint is shown in red.
31. The building footprint is shown in red.

SDP 02-154
SITE DEVELOPMENT PLANS

for
MT. ZION UNITED METHODIST CHURCH

HOWARD COUNTY, MARYLAND

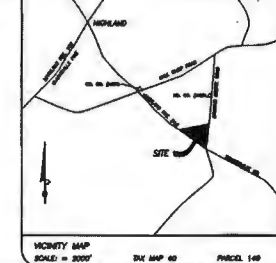


Table with 2 columns: EXISTING and PROPOSED. Lists various areas like driveway, main building, sidewalk, etc. with their respective square footages.

CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST 24 HOURS PRIOR TO STARTING ANY OF THE WORK SHOWN HEREON.
2. THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS...

INDEX OF SHEETS table listing sheet numbers and titles: SHEET 1: TITLE SHEET, SHEET 2: EXISTING CONDITIONS & DEMOLITION PLAN, SHEET 3: SITE PLAN, SHEET 4: GRADING, SWM & SEDIMENT CONTROL PLAN, SHEET 5: MISCELLANEOUS DETAILS, SHEET 6: PRIVATE BIO-RETENTION FACILITY #1 DETAILS, SHEET 7: PRIVATE BIO-RETENTION FACILITIES #2 & #3 DETAILS, SHEET 8: STORM DRAIN PROFILES, DETAILS, AND BUILDING PROFILES, SHEET 9: LANDSCAPE PLAN/SIMPLIFIED FOREST STAND DELINEATION PLAN, SHEET 10: LANDSCAPE PLAN, SHEET 11: HANDICAP ACCESS PLAN, SHEET 12: MD RTE 216 & BROWNS BRIDGE RD IMPROVEMENT PLAN, SHEET 13: SEPTIC SYSTEM PLAN & DETAILS, SHEET 14: SEPTIC SYSTEM DETAILS, SHEET 15: SEPTIC SYSTEM DETAILS, SHEET 16: DRAINAGE AREA MAPS, SHEET 17: OFFSITE REFOREST CONSERVATION PLAN, SHEET 18: OFFSITE REFOREST CONSERVATION DETAILS

REVISION #1
-FOR ADDITION OF NEW PAVELION AND CONCRETE PAD/ACCESS WALK
-TO ESTABLISH SIGNIFICANT ON-SITE FIELD CONDITIONS AT THE TIME OF REVIEW
-TO ADD ADDITIONAL ADA SPACE AND ACCESSIBLE FOR PAVILION USE
-TO CONVERT EX. PARSONAGE HOUSE TO LOW INCOME RENTAL UNIT

RED-LINE REVISION DOCUMENTATION PREPARED BY:

O'C&L
O'CONNELL & LAWRENCE, INC.

Construction Consultants, Engineers, Surveyors
17904 Georgia Avenue, Suite 302
Olney, Maryland 20852
Tel (301) 924-4570
Fax (301) 924-5872



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. 42417, Expiration Date: June 6, 2028.

These plans are submitted for the purpose of obtaining a permit and are not intended to constitute a contract. The contractor shall be responsible for obtaining all necessary permits and for complying with all applicable laws, rules and regulations.

APPROVED: Howard County Department of Planning and Zoning
Date: 6/16/02
Date: 6/16/02

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS.
Date: 6/16/02

Site Analysis Data:
Total Project Area: 16.314 acres
Lot Coverage: (shall not exceed 25% of site in accordance with Section 131.H.3B.2 of the Zoning Regulations) computed lot coverage = 4.44% - 4.00%

Table with columns: ADDRESS CHART, PARCEL NO., STREET ADDRESS, SUBDIVISION NAME, BLOCK #, ZONE, etc.

MARYLAND LAND DESIGN, INC. CONSULTING ENGINEERS AND LAND PLANNERS
2001 MEADOW DRIVE WESTMINSTER, MARYLAND 21158
TELEPHONE: (410) 857-0210 FAX: (410) 857-8030



REVISIONS table with columns: NO., DATE, DESCRIPTION.

PROJECT OWNER/DEVELOPER:
MT. ZION METHODIST CHURCH
12430 SCAGGSVILLE ROAD
HIGHLAND, MD 20777

PLAN PREPARATION
DRAWN BY: DAB DATE: 10 MAY 2002
DESIGNED BY: DAB FILE NO. 2002-23
CHECKED BY: KDB DRAWING NO.

COVER SHEET
MT. ZION METHODIST CHURCH
SITUATED ON MD 216 - SCAGGSVILLE ROAD
LICER 5331 FOLIO 656 FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
NO SCALE
SHEET NO. 1 OF 18

Approved R/E B24000796 5/20/2024

Design & Drafting © DMD06AC-CAB-1-000-000-000-000-000-000

SEE ARCHITECTURAL DRAWINGS FOR EXACT UTILITY LOCATIONS.  
 SEE SEPTIC SYSTEM DESIGN & DETAILS ON SHEETS 13 & 14.  
 SEE BRIDGE ROAD IMPROVEMENTS ALONG ROUTE 218 ON SHEET 12.  
 SEE MSHA IMPROVEMENTS ALONG ROUTE 218 ON SHEET 12.  
 SEE DEMOLITION PLAN (SHEET 2) FOR EXISTING TREES TO BE REMOVED.  
 SEE DEMOLITION PLAN (SHEET 2) FOR EXISTING FEATURES TO BE REMOVED OR RELOCATED.  
 SEE NEW WATER LINE LOCATION TO EXISTING PARSONAGE ON SHEET 13.

**LEGEND**

- PROPOSED MSHA PAVING SECTION
- PROPOSED HOWARD COUNTY P-1 PAVING SECTION
- PROPOSED HOWARD COUNTY P-2 PAVING SECTION
- PROPOSED P-4 PAVING SECTION
- PROPOSED SITE LIGHTING (TYP)
- TRAFFIC FLOW DIRECTIONAL ARROWS (TYP)
- EXISTING BLDG. ENTRANCE
- PROP. BLDG. ENTRANCE
- PROP. ELECTRIC FOR LIGHT POSTS

**PROP. IMPROVEMENTS TO BE PERMITTED BY THIS REVISION:**

- 40' x 70' Single Story Pavilion
- Concrete pads/egress connections to pavilion as shown hereon
- Additional ADA space w/ access aisle for pavilion use
- Conversion of Parsonage House to a Low Income Rental Unit

Prop. pavilion sizing and location per information provided by ProBuilt Construction, Inc. All construction detailing and plans by others.

- LEGEND**
- PROP. LOD (4,820 SF ±)
  - PROP. CONCRETE PAD
  - ADA ADA PARKING SPOT

**CONSTRUCTION NOTES:**

- C-1 PROPOSED HOWARD COUNTY P-1 BITUMINOUS PAVING.
- C-2 PROPOSED HANDICAP PARKING SPACES PER ADA REQUIREMENTS. SEE SHEET 11 FOR DETAILS.
- C-3 PROPOSED "VAN ACCESSIBLE" PARKING SIGN (TYP) PER ADA REQUIREMENTS.
- C-4 PAINTED/STRIPED PARKING SPACES WITH 4" WIDE PAINT LINE (TYP).
- C-5 SAWCUT EDGE EXISTING PAVING AT PAINTED WHITE LINE TO PROVIDE A CLEAN JOINT FOR NEW PAVING. SEAL NEW PAVING JOINT.
- C-6 PROPOSED MSHA TYPE "A" COMBINATION CURB AND GUTTER. SEE DETAIL ON SHEET 11.
- C-7 NOSE DOWN END OF CURB PER MSHA REQUIREMENTS (TYP).
- C-8 PROPOSED MSHA PAVING. SEE SHEET 11 FOR PAVING SECTION.
- C-9 PROPOSED SITE LIGHTING (TYP). ALL LIGHTS SHALL BE SHIELDED TO AVOID OFFSITE GLARE. SEE TYPICAL DETAIL ON SHEET 6.
- C-10 PROPOSED CONCRETE SIDEWALK. SEE TYPICAL SIDEWALK SECTION ON SHEET 6. WIDTH TO BE 5'-FT. UNLESS OTHERWISE SHOWN.
- C-11 EXISTING UTILITY POLES TO BE REMOVED OR RELOCATED BY UTILITY COMPANY. LOCATION TO BE DETERMINED.
- C-12 PROPOSED LANDSCAPE/GRASS AREA. SEE LANDSCAPE PLAN FOR DETAILS.
- C-13 PROPOSED CONCRETE WHEEL STOPS (TYP. WHERE SHOWN). SEE DETAIL ON SHEET 6.
- C-14 PROPOSED HANDICAP RAMP ACCESS @ 1:2:1 MAX. SLOPE. SEE SHEET 11 FOR DETAILS.
- C-15 PROPOSED TRAFFIC DIRECTIONAL ARROWS (TYP. WHERE SHOWN).
- C-16 PROPOSED P-4, HOWARD COUNTY PAVING. SEE SHEET 9 FOR PAVING SECTION.
- C-17 SAWCUT AND REMOVE EX. CONCRETE SIDEWALK AT NEAREST JOINT TO CONNECT PROPOSED SIDEWALK. CONTRACTOR TO MATCH EXISTING GRADE IN FIELD.
- C-18 REMOVE PORTION OF EXISTING PAVING, REGRADE AS NECESSARY.
- C-19 EXISTING WELL TO BE ABANDONED PER HOWARD COUNTY HEALTH DEPARTMENT REQUIREMENTS.
- C-20 PROPOSED RELOCATED PLAY GROUND (TYPE OF PLAYGROUND EQUIPMENT TO BE DETERMINED BY OWNER).
- C-21 PROPOSED RELOCATED MEMORIAL PARK (WORK BY OTHERS).
- C-22 EXISTING WELL TO BE ABANDONED PER HOWARD COUNTY HEALTH DEPARTMENT REQUIREMENTS.
- C-23 PROPOSED UNDERGROUND ELECTRICAL SERVICE FROM EXISTING BUILDING TO EXISTING SIGNS. LOCATION TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. DUNG TO DAWN SENIOR TO BE USED.
- C-24 PROPOSED 42" HIGH CHAIN LINK FENCE (OR EQUIVALENT) AROUND PLAYGROUND AREA. FENCE TO BE SPLIT RAIL (3 RAILS) 36" - 44" HEIGHT WITH 36" HIGH GREEN (2x3) FENCING PLACED ON THE INSIDE. TWO 2" DIA. SPLIT RAIL GATES TO BE INSTALLED IN LOCATION TO BE DETERMINED BY CHURCH.
- C-25 PROPOSED ELECTRICAL TRANSFORMER LOCATION (WORK BY ELECTRIC COMPANY).
- C-26 PROPOSED 8" CONCRETE CURB AND GUTTER.
- C-27 PAINTED/STRIPE PARKING AREA W/ 4" WIDE PAINT LINES 1/8" O.C.
- C-28 REMOVE EXISTING OIL TANKS PER COUNTY OR STATE REGULATIONS. CONTACT CHURCH OFFICERS PRIOR TO REMOVAL. CONTRACTOR TO MAINTAIN HEAT SOURCE.
- C-29 APPROXIMATE LOCATION OF PROPOSED UNDERGROUND ELECTRIC FOR UTILITY POLES. WIRES TO BE IN CONDUIT. FINAL LOCATION TO BE DETERMINED BY ELECTRICAL CONTRACTOR.

THE EXISTING TREES SHOWN HEREON SHALL BE PROTECTED WITH SAFETY FENCE TO PREVENT DAMAGE TO THE TREES.

RESERVED FOR IMPROVEMENTS: CYCAL FIELD W/RT (MAY 2, 2023)  
 SHOWN FOR INFORMATION AND/OR REVIEW OF SD&I RECORD INFORMATION

**KEYNOTES:**

- KN1 APPROX. LOC. EXISTING STONE PAVING AREA
- KN2 EX. WOOD FRAME OCTAGONAL GARGA BALL PIT TO BE RELOCATED
- KN3 APPROX. LOC. EX. 12x16 5' SHED
- KN4 APPROX. LOC. EX. 15x18 SCRAPPED DUMPSTER PAD
- KN5 APPROX. LOC. EX. SIGNAGE
- KN6 EX. SWING SET
- KN7 EX. VOLLEYBALL NET
- KN8 EX. FIRE PIT
- KN9 EX. PAVING PER CYCAL'S SITE VISIT

**NOTE 1:** ALL PARKING SPACES ON-SITE ARE CONSTRUCTED AS SHOWN. MODIFIED LOCATIONS NEAR FELLOWSHIP HALL ARE SHOWN. THERE IS NO CHANGE TO THE OVERALL NO. OF PERMANENT PARKING SPACES. THE PAVILION IS CONSIDERED ANTI-LARY AND HAS NO KNOWN ADDITIONAL PARKING REQUIREMENTS PER THE CURRENT HOWARD COUNTY ZONING ORDINANCES.

**NOTE 2:** FIELD SURVEY WORK PERFORMED ON JUNE 07, 2023 TO PROVIDE DATA BASED ON ORIGINAL COMMENTS. BENCHMARK AS SHOWN ESTABLISHED BY PIPE SERVICES AS DATUM.

**NOTE 3:** PARSONAGE HOUSE TO BE CONVERTED TO LOW INCOME RENTAL UNIT. THERE ARE NO PHYSICAL CHANGES PROPOSED AS PART OF THIS CONVERSION.

**NOTE 4:** THE PROPOSED PAVILION WAS APPROVED AS A CONDITIONAL USE ON THIS PROPERTY VIA CASE # BA 23-026C THE HEARING WAS HELD ON 2.21.2024. THE OPINION WAS ISSUED CN 3.18.2024.

**NOTE 5:** CERTAIN BUILDING LABELS ON THIS PLAN WERE RE-PRINTED FOR CLARITY.

**NOTE 6:** RESTRIPING IS NOT CONSIDERED DISTURBANCE

**NOTE 7:** NEW SECONDARY EGRESS PATH SHALL BE ADA-ACCESSIBLE E GRASS PAVEMENT (GRASSPAVE-2 BY INVISIBLE STRUCTURES, PRO LITE BY TRUGRID, OR APPROVED EQUIVALENT, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR ADA COMPLIANCE. SUBMIT SELECTED GRASS PAVEMENT TO ENGINEER IN ADVANCE OF PROCUREMENT.

APPROVED FOR E.M.A. construction and construction equipment control under the authority of Howard County Department of Public Works.

APPROVED FOR THE HOWARD COUNTY DISTRICT AND HOUSING RELATED PROGRAMS.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM.

APPROVED: Howard County Department of Planning and Zoning

*[Signature]* 6/16/24

*[Signature]* 6/16/24

*[Signature]* 6/16/24

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM.

*[Signature]* 6/16/24

*[Signature]* 6/16/24

**O'C&L**  
 O'CONNELL & LAWRENCE, INC.

Construction Consultants,  
 Engineers, Surveyors  
 17904 Georgia Avenue, Suite 302  
 Chevy, Maryland 20832  
 Tel: (301) 924-4570  
 Fax: (301) 924-5872

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. 42417, Expiration Date: June 6, 2024.

*[Signature]* 42417  
 Design Engineer Signature MD License #  
 Douglas G. Tilley 4/17/2031  
 Printed Name Date

SEAL OF THE STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 DOUGLAS G. TILLEY  
 LICENSE NO. 42417  
 EXPIRES 6/6/2024

**MARYLAND LAND DESIGN, INC.**  
 CONSULTING ENGINEERS AND LAND PLANNERS

WESTMINSTER, MARYLAND 21156  
 TELEPHONE: (410) 857-0210 FAX: (410) 857-8030

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**REVISIONS**

NO.	DATE	DESCRIPTION
1	4.17.2024	TO ADD PAVILION ADA SPACES AND CONVERT W/UNDERGROUND ELECTRIC NETWORK

PLAN PREPARATION		SITE PLAN		SCALE
DRAWN BY: DAB	DATE: 10 MAY 2002	MT. ZION METHODIST CHURCH		1" = 50'
DESIGNED BY: DAB	FILE NO. 2002-23	SITUATED ON MD 218 - SCAGGSVILLE ROAD		SHEET NO.
CHECKED BY: KDB		LIBER 8331 FOLD 658 FIFTH ELECTION DISTRICT		3 OF 18
		HOWARD COUNTY, MARYLAND		

TEST PIT TO DETERMINE EXISTENCE, LOCATION AND DEPTH

DESIGN FLOW TABLE

SOURCE	FLOW ALLOWANCE	DAILY	SATURDAY	SUNDAY
SANCTUARY	3 GAL/SEAT (852 SEATS)	1995	---	1858
SCHOOL	15 GAL/STUDENT/TEACHER (=125 STUDENTS)	1995	---	---
FELLOWSHIP HALL	10 GAL/SEAT (150 SEATS)	---	1500*	1500*
PARKING	150 GAL/BEDROOM (3 BEDROOMS)	450	450	450
VOLUME TO BE MANAGED:		2443	1950*	3400*

\* OCCASIONAL  
 \*\* A TOTAL OF 250 STUDENTS ARE ALLOWED 2 SCHOOL SESSIONS. 125 STUDENTS DURING THE MORNING SESSION AND 125 STUDENTS DURING AFTERNOON SESSION. THE SYSTEM WAS DESIGNED FOR 125 STUDENTS AND 8 TEACHERS/STAFF FOR THE ENTIRE SCHOOL DAY.

FIELD TEST DATA: (12-8-2000)

DISPOSAL FIELD	TEST NO.	DEPTH	RATE (MINUTES)	MAXIMUM DEPTH VERIFIED
Y	1	5'	SAME AS #1	13'
Y	2	5'	SAME AS #1	13'
Y	3	5'	SAME AS #3	13.25'
N	4	5'	SAME AS #3	13'
N	5	5'	SAME AS #3	13'
N	6	5'	SAME AS #3	13'
N	7	5'	SAME AS #3	13'
Y	10	10'	SAME AS #3 & 12	13.5'
Y	11	10'	SAME AS #3 & 12	13'
N	12	10'	SAME AS #12	13'
N	13	10'	SAME AS #12	13'
N	14	10'	46 FAILED	13'
N	15	10'	46 FAILED	13'
N	16, 17	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

WASTEWATER DISPOSAL:

- ALL LOW PRESSURE PIPING WILL BE PVC SCH 40 PRESSURE PIPING. BUILDING SEWER(S) WILL BE (MINIMUM) SCH 40 PVC.
- CLEANOUTS WILL BE PROVIDED ADJACENT TO THE EXIT POINTS OF THE BUILDING SEWER(S).
- 6-INCH TRACER WIRE SHALL BE INSTALLED AND/OR ATTACHED TO ALL PVC PIPE.
- THE COUNTY HEALTH DEPARTMENT WILL BE NOTIFIED AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE 2 PRESSURE HEAD TESTING OF THE DISPOSAL FIELD ZONES AND PUMP OPERATIONS.
- PUMP NOTES:
  - THE LOCABLE EXTERNAL CONTROL PANEL(S) WILL BE MOUNTED ADJACENT TO THE PUMPING CHAMBERS (UNLESS A MORE ACCESSIBLE ACCESSIBLE LOCATION IS DETERMINED).
  - CERTIFIED ELECTRICIAN REQUIRED TO INSTALL PANEL(S) AND ELECTRICAL SERVICES.
  - NOTE: A SEPARATE CIRCUIT IS REQUIRED FOR THE INSTALLATION OF EACH HIGH WATER ALARM FLUAT SWITCH (EACH OF THE TWO PUMP CHAMBERS HAS A HIGH WATER ALARM).
  - IN THE EVENT THAT WATER OR DEBRIS COLLECTS IN THE PUMP CHAMBERS BEFORE INSPECTION/TESTING, THE CONTRACTOR IS RESPONSIBLE TO CLEAR/CLEAN THE CHAMBERS OF ALL DEBRIS/DIRT.
- THE INTIAL AND EACH OF THE TWO DISPOSAL AREAS HAVE BEEN SIZED TO ACCOMMODATE AN INCREASE OF 55.5% TO (5600 GAL.) FLOW OVER THAT PROJECTED AS A DAILY MAXIMUM (3600 GAL.)

SEPTIC TANK SIZING:

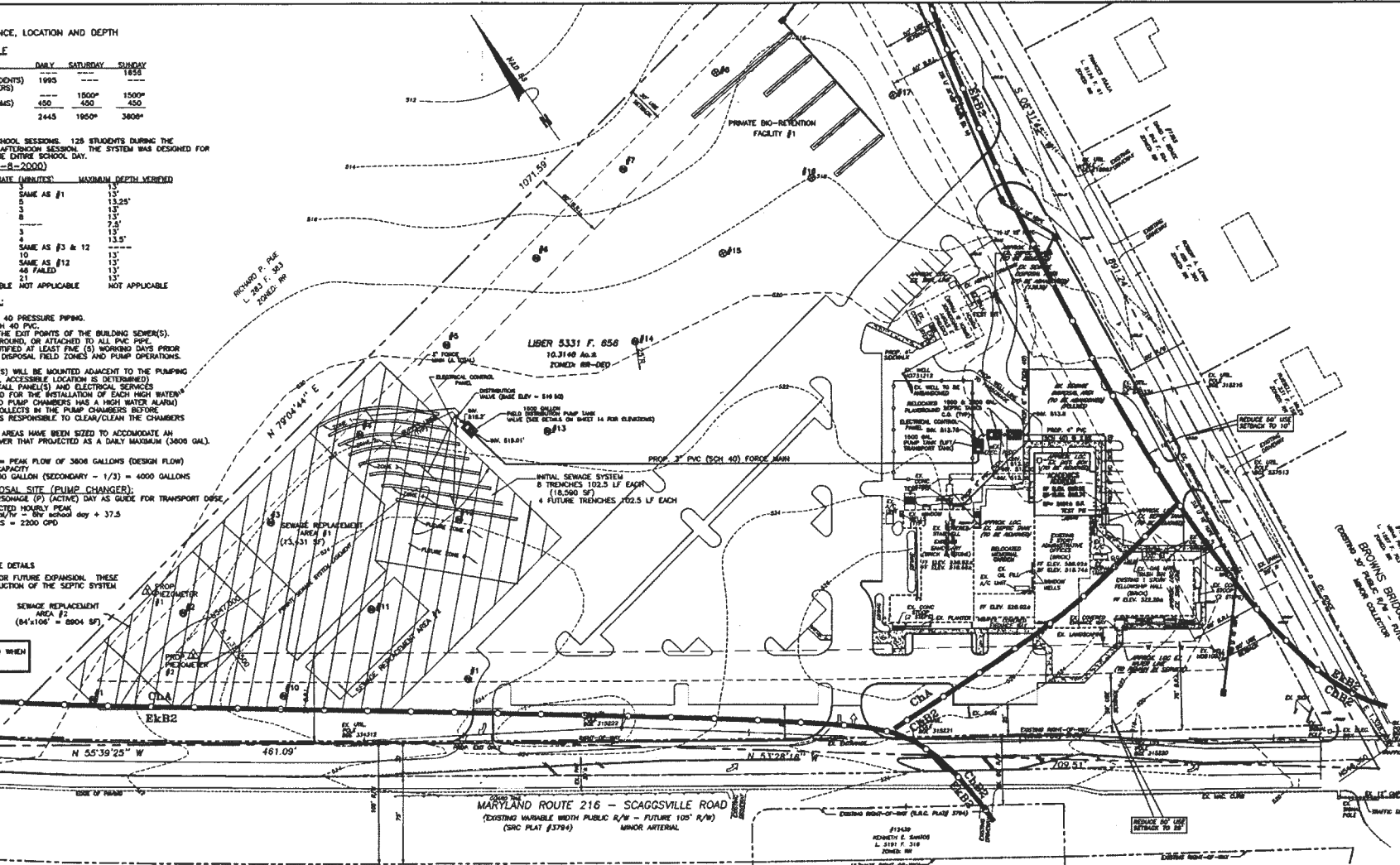
VOLUME REQUIRED (V) = 1125 GAL + 750 (Q = PEAK FLOW OF 3600 GALLONS (DESIGN FLOW))  
 V = 1125 GAL + 3600 x 75 = 3630 GALLON CAPACITY  
 USE 1 = 2500 GALLON (PRIMARY - 2/3) + 1800 GALLON (SECONDARY - 1/3) = 4300 GALLONS

LIFT AND TRANSPORT TO DISPOSAL SITE (PUMP CHANGERS):

USE 6 HOUR SCHED. DAY (5) AND 12 HOUR PARKING (P) (ACTIVE DAY AS GUIDE FOR TRANSPORT USE)  
 (5) 1895 GAL / 8 HRS = 236.875 GAL/HR - EXPECTED HOURLY PEAK  
 (P) 450 GAL / 12 HRS = 37.5 GAL/HR - PEAK HOURLY FLOW (on second day) + 37.5  
 DAILY PEAK FLOW (HOURLY) 370 GAL/HR x 8 HRS = 2960 GPD

SEE SHEETS 14 AND 15 FOR PRIVATE SEWERAGE DETAILS  
 NOTE: FUTURE SEPTIC ZONES 4 AND 5 ARE FOR FUTURE EXPANSION. THESE ZONES MAY BE INSTALLED DURING THE CONSTRUCTION OF THE SEPTIC SYSTEM AT THE DIRECTION OF THE CHURCH.

PIEZOMETERS #1 AND #2 TO BE INSTALLED (P) WHEN SEWERAGE REPLACEMENT AREA #1 IS UTILIZED.



APPROVED: [Signature] DATE: 6/18/03  
 PROJECT NUMBER: DATE: 6/18/03  
 REVIEWED FOR THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING: [Signature] DATE: 6/18/03

APPROVED: [Signature] DATE: 6/18/03  
 DIRECTOR: [Signature] DATE: 6/18/03  
 HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS:  
 [Signature] DATE: 6/18/03  
 HOWARD COUNTY HEALTH DEPARTMENT - JAMES

TRENCH CONFIGURATION:  
 HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH DETERMINED THAT FIELD TESTS (SEE FIELD TEST DATA) AND OBSERVATION PITS CONFIRMED THE USE OF DEEP TRENCH DISPOSAL UTILIZING THE DEPTH OF 5' TO 8' AS RESERVATIVE ZONE.  
 - CONVENTIONAL TRENCH REQUIRED (N): ANTICIPATED PEAK FLOW TEST RESULTS FLOWING RATE = 37.5  
 3608 GPD  
 8 GAL/70'GV  
 4508 ft<sup>3</sup>  
 2254 = 36.3% = 816 LINEAR FEET DEEP TRENCH REQUIRED  
 816 / 102.25 = 8 TRENCHES  
 (SEE DESIGN CRITERIA- DISPOSAL SYSTEM DISTRIBUTION (SEE SHEET 14))

**MARYLAND LAND DESIGN, INC.**  
 CONSULTING ENGINEERS AND LAND PLANNERS  
 WESTMINSTER, MARYLAND 21158  
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REVISIONS		
NO.	DATE	DESCRIPTION
1	6-18-02	PER HEALTH DEPARTMENT REQUIREMENTS

PLAN PREPARATION		PLAN - PRIVATE SEWERAGE SYSTEM		SCALE
DRAWN BY: DAB	DATE: 10 MAY 2002	<b>MT. ZION METHODIST CHURCH</b>		1" = 40'
DESIGNED BY: DAB	FILE NO. 2002-23	SITUATED ON MD 216 - SCAGGSVILLE ROAD		SHEET NO.
CHECKED BY: KDB		LIBER 5331 FOLIO 658 FIFTH ELECTION DISTRICT		13 OF 18
		HOWARD COUNTY, MARYLAND		

