

Route 7, Abingdon, MD 21009

Unincorporated - Harford MD Tax ID 1301038079

Municipality: **Unincorporated**
 High Sch Dist: **Harford County Public Schools**
 Prop Class: **Residential**
 Land Use: **Residential**
 Tax Map: **0062**
 Tax ID Alt: **01038079**
 Parcel Number: **605**
 City Council Dist: **01**
 Tax Record Updated: **02/14/2023**



Owner: **Love Fellowship Christian Center Inc** Legal Desc: **4 ACRES N S ROUTE 7 ABINGDON**
 Owner Addr: **PO Box 724**
 Owner City St: **Abingdon Md**
 Owner Zip+4: **21009-724**

Annual Tax Amounts

| Year | County | Municipal | School | Annual |
|------|---------|-----------|--------|---------|
| 2023 | \$1,086 | | | \$1,086 |
| 2022 | \$1,086 | | | \$1,086 |
| 2021 | \$1,109 | | | \$1,109 |

Annual Assessment

| Year | Land | Building | Ttl Taxable | Total Land | Total Bldg | Total Asmt |
|------|-----------|----------|-------------|------------|------------|------------|
| 2023 | \$102,000 | | \$102,000 | | | |
| 2022 | \$102,000 | | \$99,667 | | | |
| 2021 | \$95,000 | | \$97,333 | | | |

Record Date: **01/19/2017** Sale Date: **01/09/2017** Sales Amt: **\$110,000**
 Owner Names: **Love Fellowship Christian Center Inc** Sale Remarks: Book/Page: **12193 / 34**

Record Date: Sale Date: Sales Amt:
 Owner Names: **Shirley A Giles** Sale Remarks: Book/Page: **1119 / 87**

Lot Characteristics

Pavement Desc: SQFT: **174,240** Zoning: **R1**
 Acres: **4.0000** Zoning Desc: **Urban Residential District**

Building Characteristics

Fireplace Total: Property Class Code: **R**

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2912 Philadelphia Rd, Abingdon, MD 21009 Unincorporated - Harford MD Tax ID 1301082256

Municipality: **Unincorporated**
 High Sch Dist: **Harford County Public Schools**
 Prop Class: **Residential**
 Land Use: **Residential**
 Tax Map: **0062**
 Tax ID Alt: **01082256**
 Parcel Number: **584**
 City Council Dist: **01**
 Tax Record Updated: **02/16/2023**



Owner: **Love Fellowship Christian Center Inc**
 Owner Addr: **1205 Stirling Ct**
 Owner City St: **Abingdon Md**
 Owner Zip+4: **21009-1276**

Legal Desc: **LOT 0.17 AC N S PHILADELPHIA ROAD NEAR HA HA BRANCH**

Annual Tax Amounts

| Year | County | Municipal | School | Annual |
|------|--------|-----------|--------|--------|
| 2023 | \$578 | | | \$578 |
| 2022 | \$578 | | | \$578 |
| 2021 | \$524 | | | \$524 |

Annual Assessment

| Year | Land | Building | Ttl Taxable | Total Land | Total Bldg | Total Asmt |
|------|----------|----------|-------------|------------|------------|------------|
| 2023 | \$60,000 | | \$60,000 | | | |
| 2022 | \$60,000 | | \$53,000 | | | |
| 2021 | \$39,000 | | \$46,000 | | | |

Record Date: **01/19/2017** Sale Date: **01/09/2017** Sales Amt: **\$110,000**
 Owner Names: **Love Fellowship Christian Center Inc** Sale Remarks: **Blanket Deed** Book/Page: **12193 / 27**

Record Date: **09/23/1992** Sale Date: Sales Amt: **\$2,600**
 Owner Names: **Windell Stambaugh** Sale Remarks: Book/Page: **1863 / 933**

Record Date: Sale Date: Sales Amt: Book/Page: **1107 / 935**
 Owner Names: **Roy Elmo Ross Sr** Sale Remarks: Sales Amt: Book/Page: **1107 / 935**

Lot Characteristics

Pavement Desc: SQFT: **7,405** Zoning: **R1**
 Acres: **0.1700** Zoning Desc: **Urban Residential District**

Building Characteristics

Fireplace Total: Property Class Code: **R**

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2908 Philadelphia Rd, Abingdon, MD 21009 Unincorporated - Harford MD Tax ID 1301090216

Municipality: **Unincorporated**
 High Sch Dist: **Harford County Public Schools**
 Prop Class: **Residential**
 Land Use: **Residential**
 Tax Map: **0062**
 Tax ID Alt: **01090216**
 Parcel Number: **583**
 City Council Dist: **01**
 Tax Record Updated: **02/16/2023**

Owner: **Love Fellowship Christian Center Inc**
 Owner Addr: **1205 Stirling Ct**
 Owner City St: **Abingdon Md**
 Owner Zip+4: **21009-1276**

Legal Desc: **LOT 0.16 AC 100X50
 2908 PHILADELPHIA ROAD S OF
 ABINGDON**



Annual Tax Amounts

| Year | County | Municipal | School | Annual |
|------|--------|-----------|--------|--------|
| 2023 | | \$578 | | \$578 |
| 2022 | | \$578 | | \$578 |
| 2021 | | \$524 | | \$524 |

Annual Assessment

| Year | Land | Building | Ttl Taxable | Total Land | Total Bldg | Total Asmt |
|------|----------|----------|-------------|------------|------------|------------|
| 2023 | \$60,000 | | \$60,000 | | | |
| 2022 | \$60,000 | | \$53,000 | | | |
| 2021 | \$39,000 | | \$46,000 | | | |

Record Date: **01/19/2017**
 Owner Names: **Love Fellowship Christian Center Inc**

Sale Date: **01/09/2017**
 Sale Remarks: **Blanket Deed**

Sales Amt: **\$110,000**
 Book/Page: **12193 / 27**

Record Date:
 Owner Names: **Windell & Donna K Stambaugh**

Sale Date:
 Sale Remarks:

Sales Amt:
 Book/Page: **1123 / 199**

Lot Characteristics

Pavement Desc: SQFT: **6,959** Zoning: **R1**
 Acres: **0.1600** Zoning Desc: **Urban Residential District**

Building Characteristics

Fireplace Total: Property Class Code: **R** Water: **Public**
 Sewer: **Public**

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BARRY GLASSMAN
HARFORD COUNTY EXECUTIVE

BILLY BONIFACE
DIRECTOR OF ADMINISTRATION



BRADLEY F. KILLIAN
DIRECTOR OF PLANNING & ZONING

SITE PLAN APPROVAL

SITE: Love Fellowship Christian Church

PLAN NO.: S14-091

SUBMITTED: 07-22-14

REVISED: 05-26-15

SERIES: 2

ENCLOSED AREA: 7.28 +/- Acres

ZONING: R1

LOCATION: North side of Philadelphia Road, adjacent to William Paca/Old Post Road Elementary Road; Tax Map 62, Parcel(s) 583, 584, 605 & 621; First Election District.

PURPOSE OF PLAN: To construct an 18,400 square foot House of Worship.

This plan proposes to construct an 18,400 sq. ft. building for a church sanctuary. The proposed site is zoned R1 (Urban Residential District). A Community Input Meeting (C.I.M.) was held on Tuesday, May 27, 2014 at The William Paca/Old Post Road Elementary School. This plan is subject to the terms and conditions of Board of Appeals Case No. 5832.

A preliminary plan shall be submitted to consolidate all of the existing parcels. All appropriate Stormwater Management Easements, Natural Resource District (NRD) and Forest Retention Areas shall be shown on the final plat. This plat shall be recorded in the Harford County Land Records prior to building permit application.

The project is subject to the Harford County Forest Conservation Regulations. A prior Forest Stand Delineation (FSD 14-013-1) was submitted and approved. The subject property is 7.28 acres with a total of 3.20 +/- acres of forest within the net tract area. No forest clearing is proposed for the development of this site which results in an afforestation/reforestation obligation of 1.70 acres. The reforestation requirement shall be met through a combination of 0.35 acres onsite plantings, 0.51 acres of individual street trees landscaping and offsite planting of 0.84 acres.

The Developer has proposed to provide 0.84 acres of the reforestation requirement through off-site plantings. An off-site planting plan (FCP-14-091-1A) was approved by

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220 South Main Street, Bel Air, Maryland 21014

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the Department of Planning and Zoning. A total of 0.84 acres of reforestation will be planted on the Amos Property, (Tax Map 47; Parcel 250). The off-site property totals approximately 75.80 acres and is located on the west side of Putnam and Pleasantville Roads, respectively.

A boundary plat for the off-site Forest Conservation areas must be recorded along with a Declaration of Covenants and restrictions protecting the Forest Retention Area prior to issuance of any building permits or grading permits.

A surety in the amount of \$29,620.80 (based upon 74,052 square feet of reforestation feet x .40 = \$29,620.80) is required to assure the planting and survival of the required reforestation. A different surety amount may be posted if an acceptable cost estimate from a landscape contractor is submitted to the Department of Planning and Zoning and approved. The surety and reforestation agreement shall be submitted to the Department of Planning and Zoning and approved prior to the issuance of any grading or building permits.

All reforestation work must be completed within two (2) years of the issuance of the first grading permit. The Department of Planning and Zoning must be notified in writing when all reforestation work has been completed. Partial release of the surety will occur after the first growing season if the plantings are completed and are demonstrating adequate survival rates. A full release of the surety may occur after the second growing season provided that the plantings are continuing to survive at an acceptable rate.

A Landscaping Plan (L14-091-3) was reviewed and approved by the Department of Planning and Zoning. A surety in the amount of \$29,188.75 shall be submitted to ensure the planting of the approved landscaping. A surety in the form of a bond or letter of credit along with a surety agreement shall be submitted prior to the issuance of a grading permit or application for a building permit. The Department of Planning and Zoning shall be notified in writing when the plantings are installed. The bond shall be released following an onsite inspection of the plantings. The Department recommends additional planting at the base of the fenced dumpster area.

A lighting plan has been submitted and approved. All site lighting shall be directed down and away from the adjacent residences and roadways. The Department of Planning and Zoning recommends the use of shields for all pole mounted lighting as well as utilizing "nighttime friendly" lighting practices.

Permits will be required for all proposed signage. Freestanding signage shall meet the required setback from the right-of-way for the zoning district.

The Harford County Health Department has extended its approval of the above referenced site plan. The site is located on the north side of Philadelphia Road (MD 7), east of Governor Court. This plan proposes to construct an 18,400 sq. ft. building for a church. The site is serviced by public water and sewer. Prior to final plat approval the following are required:

1. Houses of worship can serve food to the public in a variety of settings: day care, meals on wheels, and congregational gatherings are some of the more common

ways. In terms of supplying food to the public, the Harford County Health Department realizes public houses of worship can be considered as excluded organizations. Maryland law defines an excluded organization as: "Excluded organizations" means a volunteer or bona fide nonprofit fraternal, civic, war veteran's, religious, or charitable organization or corporation which does not serve food to the public more often than 4 days per week.

Maryland law also requires excluded organizations to abide by the food safety laws but allows these specific nonprofit groups to operate food service facilities according to regulations that were especially written for them and that are less stringent than other food service facilities. The church can apply for excluded status or may choose to comply with the more strict standards depending on which food service operations meet their needs. The choice should be made with careful consideration since it cannot be changed in the future. Please contact Mrs. Lisa Kalama at 410-877-2332 with questions regarding the procedures.

2. If the church plans to provide daycare services, the owner/applicant must make application with the Maryland State Department of Education, Division of Early Childhood Development, Office of Child Care, and provide documentation to the Harford County Health Department that this has been completed. The owner/applicant may contact Ms. Beth O'Connor at the Office of Child Care at 410-272-5358 for information regarding licensing requirements.
3. The use and occupancy (U&O) for this facility will be held pending approval from the Office of Child Care.
4. Any buildings to be razed will require a demolition permit that is secured through the Department of Planning & Zoning. All aspects of the demolition work must be reviewed, approved, and completed to the satisfaction of the Harford County Health Department. This includes but is not limited to the abandonment of any wells and septic systems, asbestos, underground storage tanks, hazardous materials, solid wastes, etc., and the forwarding of any documentation concerning the demolition work. If there are any questions concerning the demolition work please contact Mr. Joe DeLizia or Mr. Rich Gordon of the Harford County Health Department's Air/Waste Division at 410-877-2325.
5. The owner/developer is reminded that during the development of this project when soil moisture conditions are low, measures must be implemented to prevent the generation of dust until a permanent vegetative cover is established and all paving is completed.

The Department of Public Works, Division of Water and Sewer has reviewed and approved this plan. There is adequate water and sewer available for the development. The following comments are conditions of site plan approval:

1. The proposed fire hydrant located adjacent to the proposed entrance may not be installed in the location shown because it does not meet proper distance behind the curb. The hydrant must be moved on the final construction drawings to meet the minimum distance requirement as identified on the Standard Water Details. If the hydrant will not be located in the public right-of-way, a drainage and utility easement must be dedicated to the County for the hydrant. The easement must be recorded before the Commercial Application may be approved for this project.
2. The Division of Water & Sewer recommends that either the water service or the proposed sign near the entrance be moved so that the water service is not in close proximity to the sign footings. If an outside water meter vault is installed, the sign may not be placed in the utility easement for the meter vault.
3. If an outside meter is proposed, it shall be placed adjacent to the SHA right-of-way in a public drainage and utility easement. The easement must be recorded before the Commercial Service Application may be approved for this project.
4. If an inside water meter setting is proposed, the property owner must execute an Inside Meter Agreement which will be prepared by the Division of Water & Sewer for the ownership and maintenance of the metering equipment. This agreement shall be executed concurrent with the Commercial Service Application.
5. The Division of Water & Sewer recommends that the proposed sewer service be sleeved and protected as much as possible from the retaining wall. Due to the height of the wall, future repairs of the sewer service in the vicinity of the wall will be very expensive.
6. There are existing water services to parcels 583 & 584 which must be abandoned at the main as part of the utility work for this project.
7. A private utility easement will be required across property owned by Harford Investors to allow this property to be serviced with public sewer. The easement shall be recorded and a copy provided to the Division of Water & Sewer before a Commercial Application will be approved.
8. The Commercial Service Application Number 19777 must be added to the title block of the site plan submitted for the Application approval.

9. A cleanout shall be installed on the sewer service at the edge of the existing public drainage and utility easement. Any sewer cleanouts that are located within the paved area shall be installed using the County cleanout in paving detail S-28. The detail shall be shown on the utility plan and referenced on the plan and/or profile drawing.
10. The construction contract numbers for the existing utilities shall be shown on the drawing submitted with the Commercial Application.
11. A Commercial Service Application must be completed by the owner and approved by Harford County before a building permit will be issued for this project. Contact Ms. Patti Bankert of the Division of Water and Sewer at 410-638-3300 Ex. 1467 for additional information.

Trees may not be placed within the drainage and utility easements within fifteen feet (15') of existing or proposed utilities. Approval of the Commercial Application for this project will not be granted until the landscaping plan is acceptable to the Division of Water and Sewer.

All pavement striping and traffic control signs shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) and the State Highway Administration Supplement.

A sediment control plan and grading permit shall be required for the development of this site. Sediment controls are to be designed to the Specifications as set forth in the Maryland Standards for Erosion and Sediment Control, latest edition. A stormwater management plan has been submitted for review and approved. The final stormwater management plan shall be approved prior to the issuance of a grading permit. A stormwater management permit is required prior to issuance of a building permit. Maintenance of the stormwater management facility (facilities) is (are) the responsibility of the lot owner(s).

The Harford County Soil Conservation District requires an adequate sediment and erosion control plan be submitted for review and approved prior to issuance of a grading permit. The sediment and erosion control plan must be integrated into the stormwater management strategy at the design phase. The 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control Manual must be utilized. If any proposed Storm Water Management Facility meets the Small Pond Standard (practice 378), the pond design will have to be approved by the Harford County Soil Conservation District. Also the pond design must be approved prior to the sediment control plan being signed. Outfall location will be reviewed during design reviews and must safely convey over steep slopes. A NOI permit is required from the Maryland Department of the Environment (MDE) when a project disturbs more than one (1) acre. Please contact MDE about the NOI permit process.

The State Highway Administration (SHA) has reviewed this site plan. An Access permit from the State Highway Administration (SHA) will be required for this site. The entrance and road improvements are outlined below:

1. Provide an east-bound left turn lane, with 100' taper on MD 7 at the site access.
2. Provide an acceleration lane and a deceleration lane along west-bound MD7 at the site access.
3. Please note that any improvements within the SHA right-of-way must include bicycle and pedestrian accommodations consistent with SHA policies, standards, and practices.
4. Please note that SHA has a highway needs inventory (HNI) project (Project No. HA4245177) along MD 7 from MD 24 to MD 159 to widen the roadway to a four (4) lane closed section. An additional 85 feet of right-of-way along the north side of MD 7 from the SHA's existing right-of-way line may be needed for the proposed improvement and TMDL requirements in the future. Please coordinate with Mr. Jordan Vogt, SHA District 4, regarding potential site impacts at 410-229-2330 or by email at jvogt@sha.state.md.us.

An access permit will be required for all construction within the SHA right-of-way. Please submit seven (7) hard copies and one (1) electronic copy of designed plans and a point-by-point response addressing the above comments to the SHA Access Management Division addressed to Mr. Steven D. This plan submittal must include a signing and pavement marking plan. Please reference the SHA Tracking Number (14APHA018XX) on future submissions. Please note that if this project has not obtained the SHA access permit and begun construction of improvements within five (5) years of this approval an updated TIA must be resubmitted for SHA review and concurrence that the proposed improvements continue to mitigate the development's traffic impacts prior to an extension of the approval. If you have any questions please contact Mr. Paul Silberman at 443-741-3500 or via email at psilberman@sabra-wang.com.

Public safety wireless radio communications inside a building is essential to the safety of those occupying the structure as well as fire, law enforcement, and emergency medical providers responding to calls for help. Buildings that are greater than 5,000 square feet, higher than 50 feet, contain underground storage or parking, and those constructed of materials that impede wireless radio signals may adversely affect the response of public safety providers. The Harford County Department of Emergency Operations requests that electrical connections and other infrastructure be wired, that may be needed for an in-building 800MHz amplifier. The Department of Emergency Operations shall test coverage in the proposed facility upon completion of construction. Please call 410-638-4900 for assistance in this matter.

The proposed sign must display 6"-8" address numbers on each side. The address & name must be clearly displayed at the point of entry off Philadelphia Road. The proposed building shall be addressed: #2310 Philadelphia Road.

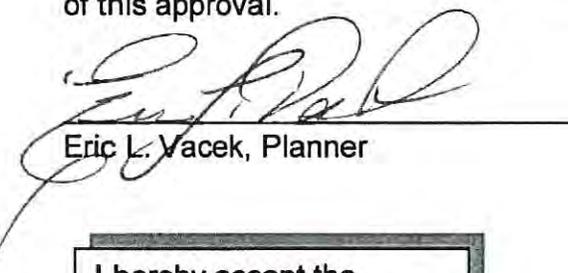
Emergency services must have a list of three (3) emergency contacts for notification, response, and securing purposes.

The Harford County Volunteer Fire & EMS Association recommends that all new buildings or altered buildings with an automatic sprinkler system or a supervised, automatic fire detection system, a 'Knox' box must be installed per NFPA1, Part III, 3-6. They shall be keyed for the Abingdon Fire Company at 410-638-3955. The usage of non-combustible landscaping directly next to the building is recommended. Traditional (wood) mulch increases the likelihood of nuisance fires from outdoor smoking.

There is currently a hydrant in front of #2908 Philadelphia Road. However, this hydrant is too far away to properly service the new church. It is recommended that a hydrant be added on-site, or at minimum, a hydrant added at the site access driveway from Philadelphia Road.

Subject to the conditions as stated herein, site plan approval is hereby granted and is valid for two (2) years. The project shall be vested with the issuance of a building permit and/or zoning certificate prior to the expiration date. Request for an extension must be submitted in writing at least 60 days prior to the expiration of this approval. Final approval is contingent on the plan's compliance with all other State, County, and Federal regulations. If a final plat is required, it must be recorded in the Harford County Land Records prior to building permit application.

The signed original of this letter, indicating concurrence by the owner/developer with the conditions as stated herein, must be returned within sixty (60) calendar days of the date of this approval.


Eric L. Vacek, Planner

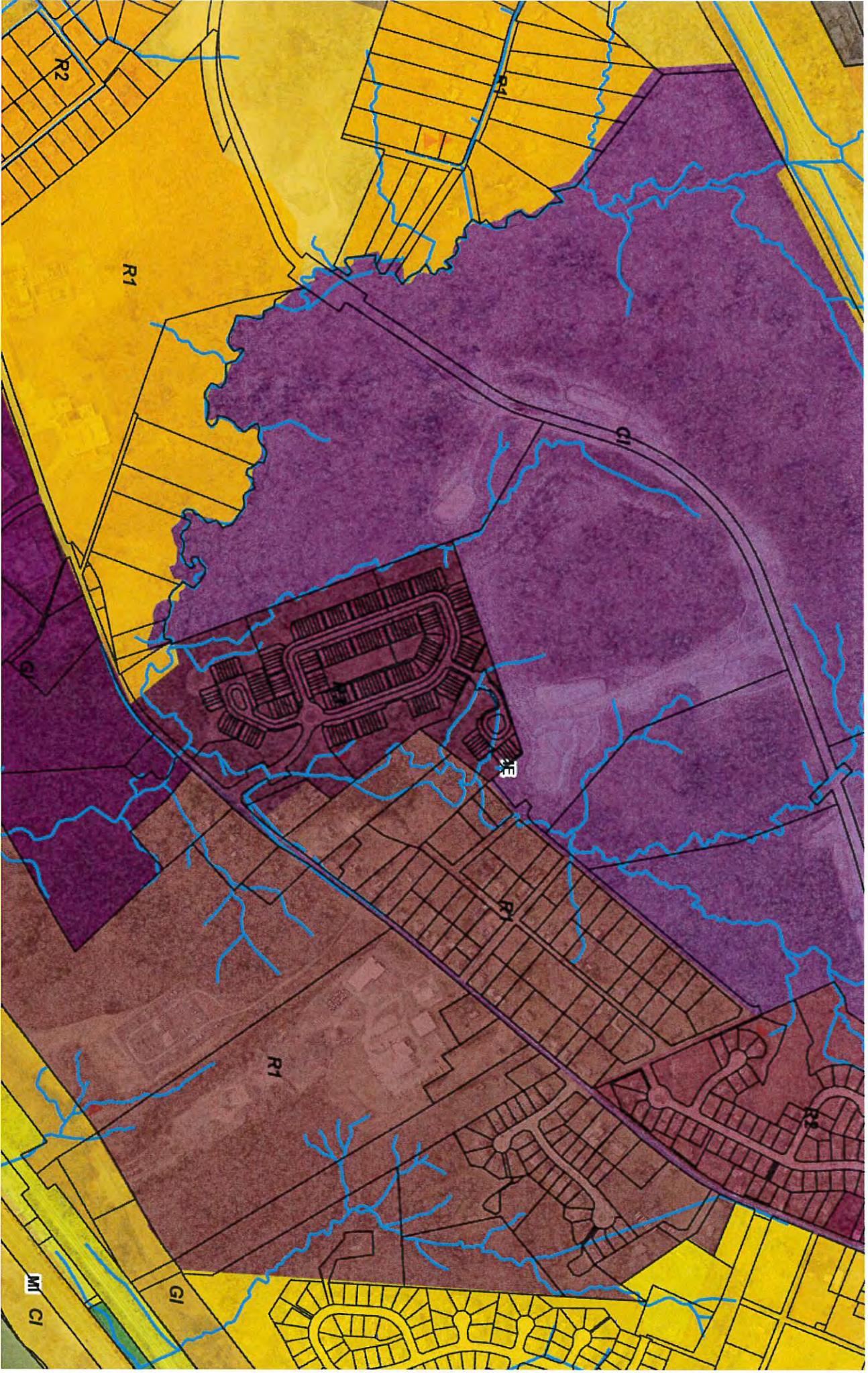
 10-20-15
Milton Davenport, Chief Date
Current Planning Division

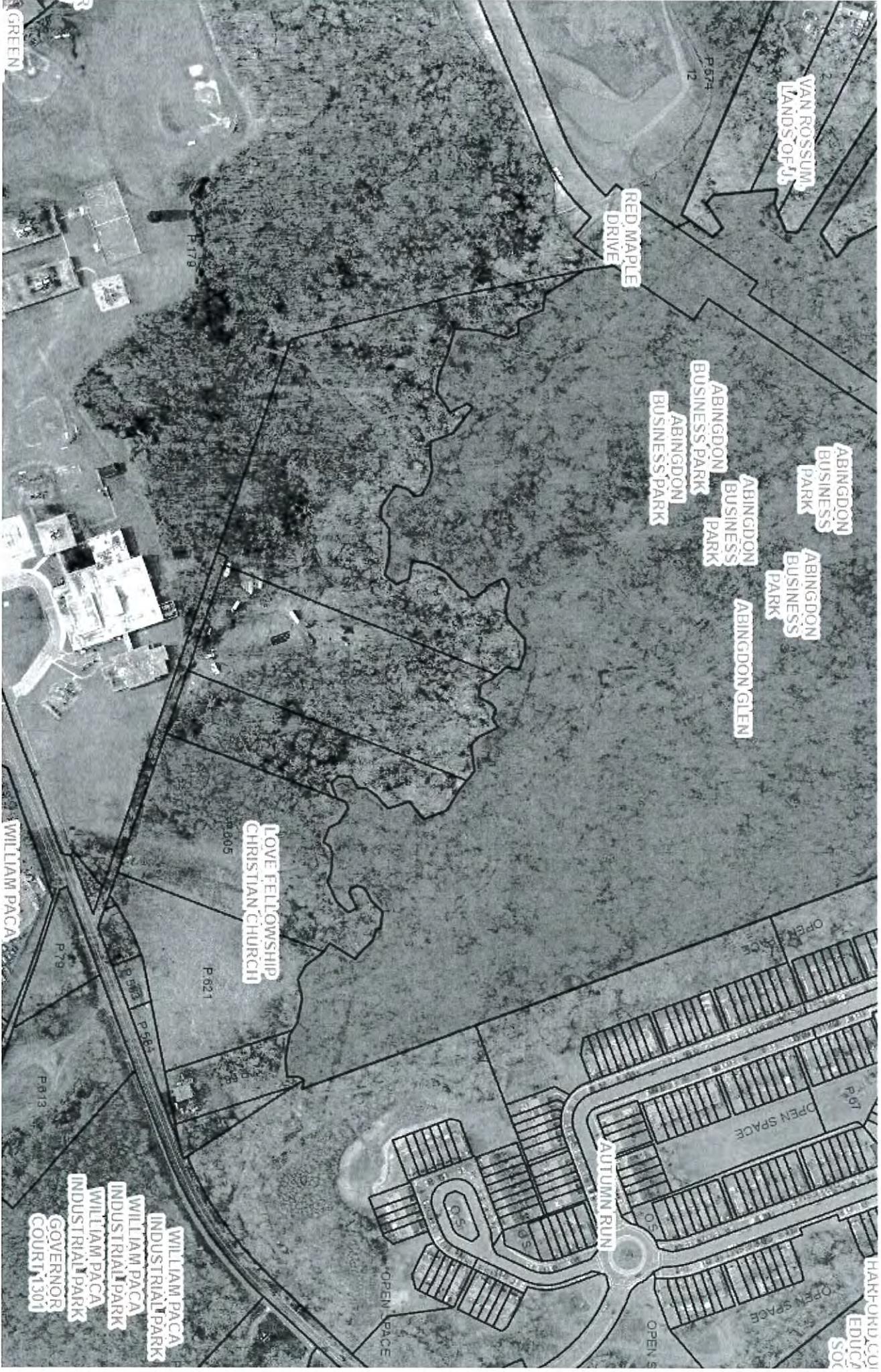
I hereby accept the conditions of this preliminary plan approval

Owner/Developer - Signature Date

Owner/Developer - Print Name

ASM: EV/lac
Cc: P&Z; DPW; Health Dept.;
SHA; Engineer; Owner





VAN ROSSUM LANDS OF J.

RED MAPLE DRIVE

P. 574
12

P. 179

ABINGDON BUSINESS PARK

ABINGDON GLEN

LOVE FELLOWSHIP CHRISTIAN CHURCH

P. 805

P. 821

WILLIAM PACA

P. 79

P. 583

P. 585

P. 813

AUTUMN RUN

OPEN SPACE

P. 697

OPEN SPACE

OPEN SPACE

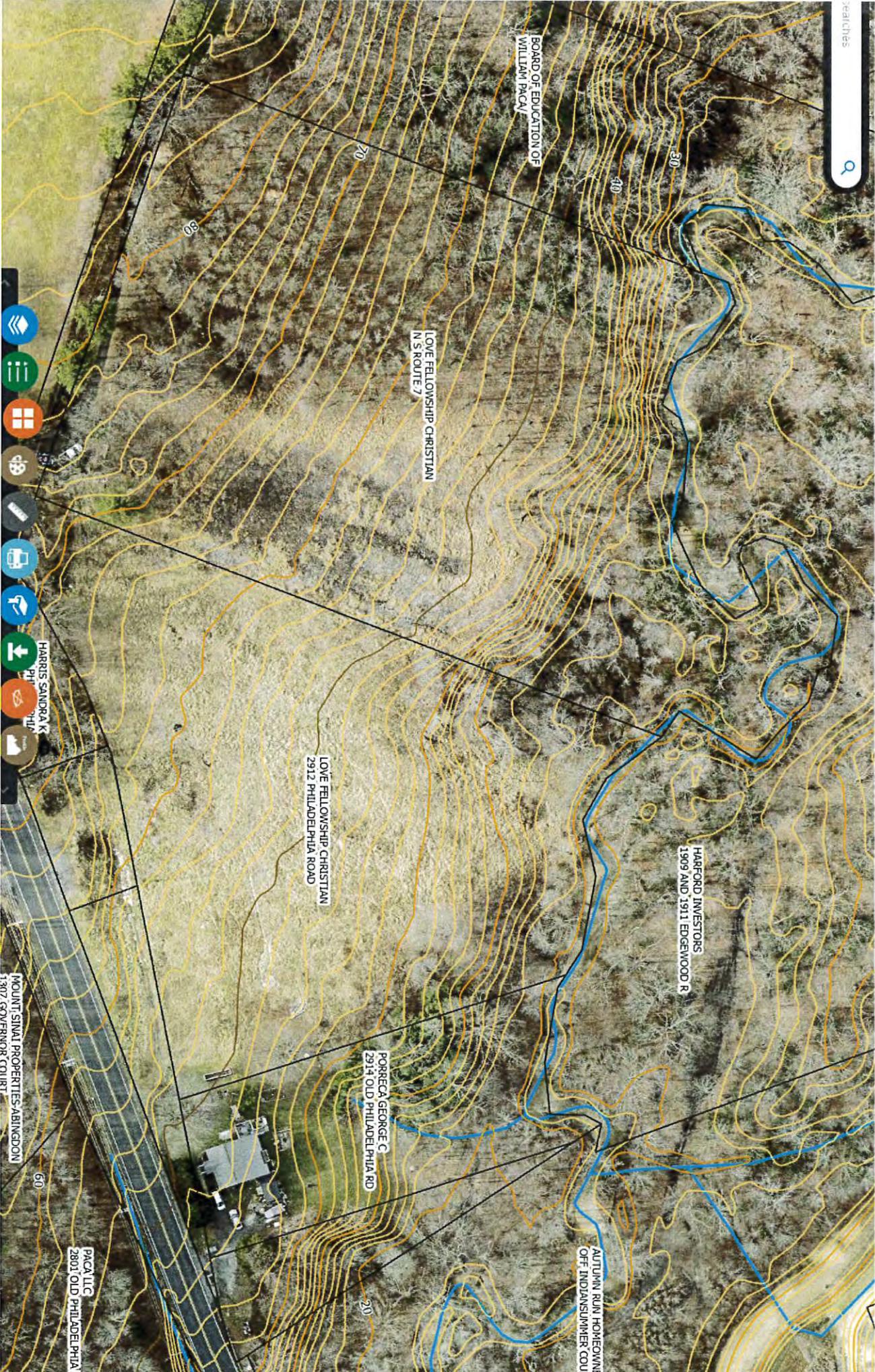
OPEN SPACE

WILLIAM PACA INDUSTRIAL PARK
WILLIAM PACA INDUSTRIAL PARK
WILLIAM PACA INDUSTRIAL PARK
GOVERNOR COURT 1301

HARFORD COUNTY EDITORIAL SOCIETY



2011 AERIAL PHOTOGRAPHY
MARCH 2007 MAPPING





2011 AERIAL PHOTOGRAPHY
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BARRY GLASSMAN
HARFORD COUNTY EXECUTIVE

BILLY BONIFACE
DIRECTOR OF ADMINISTRATION



BRADLEY F. KILLIAN
DIRECTOR OF PLANNING & ZONING

December 18, 2014

STAFF REPORT

BOARD OF APPEALS CASE NO. 5832

APPLICANT/OWNER: Windell and Donna K. Stambaugh, Shirley Giles, et al
237 Kensington Parkway, Abingdon, MD 21009

CO-APPLICANT: Love Fellowship Christian Center
2408 Creswell Road, Bel Air, MD 21015

ATTORNEY: N. Scott Phillips, Esq.
322 North Howard Street, Baltimore, MD 21201

LOCATION: 2908-2912 Philadelphia Road, Abingdon, MD 21009
Tax Map: 62 / Grid: 4A / Parcel: 583, 584, 605 & 621
Election District: First (1)

ACREAGE: 7.28+/- acres

ZONING: R1/Urban Residential District

DATE FILED: November 5, 2014

HEARING DATE: January 7, 2014

APPLICANTS' REQUEST and JUSTIFICATION:

Attachment 1.

CODE REQUIREMENTS:

The Applicants are requesting a variance pursuant to Section 267-55B(1) of the Harford County Code to allow an institutional use within the required 50-foot use setback (20-feet proposed) in the R1/Urban Residential District.

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STAFF REPORT

Board of Appeals Case Number 5832

Windell & Donna Stambaugh, Shirley Giles, et al

Love Fellowship Christian Center

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Land Use – Master Plan:

The Applicants' property is located on the north side of MD Route 7 (Philadelphia Road) approximately ½ mile east of MD Route 24. A location map and a copy of the Co-Applicants' site plan are enclosed with the report (Attachments 2 and 3).

The subject property is located within the Development Envelope. The predominant land use designations in this area of the County are Low, Medium and High Intensity as well as Industrial/Employment. The Natural Features Map reflects Stream Systems and Chesapeake Bay Critical Area (CBCA). The subject property is designated as Medium Intensity which is defined by the 2012 Master Plan as:

Medium Intensity – Areas within the Development Envelope where residential development is the primary land use. Development densities shall range from 3.5 to 7.0 dwelling units per acre. Limited commercial uses such as grocery and convenience stores, banks, and professional offices are intended for this designation.

Enclosed with the report are copies of the Edgewood Community Area portion of the 2012 Land Use Map and the Natural Features Map (Attachments 4 and 5).

Land Use – Existing:

The existing land uses in this area of the County generally conform to the overall intent of the 2012 Master Plan. The predominant land uses in this area of the County are residential and industrial. The area is a mix of old and new subdivisions with housing types ranging from townhomes to single family dwellings. Commercial uses are generally located along the MD Route 7 and MD Route 24 corridors and include a wide variety of retail and service uses; including, restaurants, shopping centers, convenience stores with gas pumps, motor vehicle repair, hotels and motels, and personal and professional services. There are several industrial parks within the area that contain a variety of uses such as warehousing, wholesaling and processing, equipment sales, research and testing and commercial amusements. Institutional uses in the area include churches and schools, such as William Paca/Old Post Road Elementary School which abuts the subject property to the west.

The church is proposed to be developed on the 7.28+/- tract which is currently comprised of four parcels. The subject properties are currently undeveloped with remnants of a barn, driveways and fences. It appears that the majority of Parcel 621 was previously used as pasture while Parcel 605 is predominantly mature forest. There is a right-of-way along the western parcel boundary that provides access to two landlocked parcels. A dwelling was previously located on Parcel 583 and the driveway accessing the dwelling was located on Parcel 584.

STAFF REPORT

Board of Appeals Case Number 5832

Windell & Donna Stambaugh, Shirley Giles, et al

Love Fellowship Christian Center

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The tributary known as Ha Ha Branch generally runs near or along the northern property line of the two parcels. There are non-tidal wetlands and 100-Year Floodplain associated with Ha Ha Branch. The topography of the subject properties is moderate to steeply sloping from the north to the south. The steep slopes are generally found adjacent to Ha Ha Branch. A copy of the topography map, aerial photograph and site photographs are enclosed with the report (Attachments 6, 7 and 8).

Zoning:

The zoning classifications in the area are generally consistent with the 2012 Master Plan as well as the existing land uses. Residential zoning in the area includes R1, R2, and R3/Urban Residential Districts. Commercial zoning includes RO/Residential Office District, B1/Neighborhood Business District, B2/Community Business District, B3/General Business District and CI/Commercial Industrial District. GI/General Industrial District zoning is typically found within the industrial parks in the area. The subject parcels are zoned R1/Urban Residential District (Attachment 9).

SUMMARY:

The Applicants are requesting a variance pursuant to Section 267-55B(1) of the Harford County Code to allow an institutional use within the required 50-foot use setback (20-feet proposed) in the R1/Urban Residential District.

Variances of this nature may be approved by the Board of Appeals pursuant to Section 267-11 of the Harford County Code, provided it finds by reason of the uniqueness of the property or topographical conditions that literal enforcement of the Code would result in practical difficulty and undue hardship. Further, the Applicants must show that the request will not be substantially detrimental to adjacent properties or will not materially impair the purpose of the Code or the public interest.

The Co-Applicants are proposing to construct a church on four parcels on the north side of MD Route 7. The four parcels will be required to be combined. The William Paca/Old Post Road Elementary School complex abuts the parcels that are the subject of this request to the west. Two residential parcels (Parcels 536 & 537) along MD Route 7 are also adjacent to the subject property. The subject property and the adjacent residential parcel and school parcel are both zoned R1/Urban Residential District. The Zoning Code requires a 50-foot use setback when institutional uses abut an adjacent residential lot. Although the schools are defined as an institutional use, the parcel they are located on is zoned R1/Urban Residential District and meets the definition of an adjacent residential lot.

The development of the proposed church on the subject parcels is constrained by the unique shape of the parcels and sensitive environmental features associated with Ha Ha Branch, which generally runs near or along the northern property line. Approximately 2.74 acres of the overall 7.28 acres is encumbered with non-tidal wetlands, 100-Year Floodplain and associated Natural

STAFF REPORT

Board of Appeals Case Number 5832

Windell & Donna Stambaugh, Shirley Giles, et al

Love Fellowship Christian Center

Page 4 of 4

Resource District (NRD) buffers. The buffers include a 50-foot floodplain buffer, 75-foot non-tidal wetland, and 150-foot buffer from Ha Ha Branch since it is designated as a major tributary. There are also steep slopes adjacent to Ha Ha Branch. These constraints required the Co-Applicant's to locate the proposed church closer to the western side of the overall tract in order to accommodate stormwater management on the eastern side of the property.

The Co-Applicants are only proposing to locate a portion of their required parking and a drive aisle within the 50-foot use setback. The parking will be setback 20-feet from the property line. No portion of the proposed building will be located within the use setback. The proposed church will be located approximately 250-feet from the school building to the west. Landscaping will be provided along the perimeter of the parking area and include a mix of trees and shrubs. A Traffic Impact Analysis (TIA) was completed by the Co-Applicants and determined that all of the studied intersections would continue to operate at an acceptable level of service.

The granting of the variance should not have an adverse impact on the adjacent William Paca/Old Post Road Elementary School Complex. They are both institutional uses that are complimentary to one another and generally operate at different times. Also, there should be no adverse impact to adjacent Parcels 536 and 537 that are currently vacant. The Co-Applicants are proposing a facility which will be an amenity to the community. The Co-Applicants have received letters from an adjacent neighbor as well as the Board of Education indicating that they have no objection to the requested variance (Attachments 10 and 11).

RECOMMENDATION and or SUGGESTED CONDITIONS:

The Department of Planning and Zoning recommends that the requested variance be approved subject to the following conditions:

1. The Applicant shall obtain Site Plan approval for the proposed church.
2. The Applicant shall obtain all applicable permits and inspections for the proposed church.
3. All landscaping shall be installed in accordance with the proposed landscaping plan (Attachment 12). The landscaping shall be routinely maintained and replaced as necessary.



Shane P. Grimm, Chief
Site Plan & Building Permits Review



Anthony S. McClune, AICP
Deputy Director, Planning and Zoning

SG/ASM/jf

BARRY GLASSMAN
HARFORD COUNTY EXECUTIVE

BILLY BONIFACE
DIRECTOR OF ADMINISTRATION



BRADLEY F. KILLIAN
DIRECTOR OF PLANNING & ZONING

December 19, 2014

Windell and Donna Stambaugh
Shirley Giles
237 Kensington Parkway
Abingdon, MD 21009

RE: Board of Appeals Case No. 5832

Dear Addressees:

Enclosed is a copy of the Staff Report prepared by this Department in connection with the above pending Board of Appeals Case. This report has been submitted to the Zoning Hearing Examiner and will become a part of the case file.

Our Staff Report is furnished to the Hearing Examiner to provide general information concerning the request, the subject property, and background data. The report, as well as our Department's recommendation, is submitted for information purposes only, as any finding in the Board of Appeals case must necessarily be the decision of the Zoning Hearing Examiner alone.

If you have any questions, please call the Zoning Department at 410-638-3103, or 410-879-2000, extension 3103.

Sincerely,

Shane Grimm, AICP
Chief, Site Plans & Permits Review

SPG/jf
Enclosure

MARYLAND'S NEW CENTER OF OPPORTUNITY

410.638.3103 | 410.879.2000 | TTY Maryland Relay 711 | www.harfordcountymd.gov

220 South Main Street, Bel Air, Maryland 21014

THIS DOCUMENT IS AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST



COUNTY COUNCIL OF HARFORD COUNTY, MARYLAND

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President

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District C

CURTIS L. BEULAH
District F

NOTIFICATION OF ZONING HEARING EXAMINER'S DECISION

DATE OF DECISION: February 27, 2015
HEARING EXAMINER: Robert F. Kahoe, Jr.
RE: Zoning Appeal Case No. 5832
APPLICANTS: Windell & Donna Stambaugh, Shirley Giles
(Contract Purchaser: Love Fellowship Christian Center)
LOCATION: 2908 - 2912 Philadelphia Road
REQUEST: Variance to allow an institutional building to be located within the required 50 foot use setback in the R1 District

Enclosed is an official copy of the Hearing Examiner's decision relative to the above referenced case.

The Hearing Examiner's decision shall become final **MARCH 27, 2015**.

This decision shall be considered a recommended opinion to the Harford County Council, sitting as The Board of Appeals, if a written request for Final Argument before the Harford County Council is filed by the close of business on above date by the Applicant, Applicant's Attorney, Opponents, People's Counsel, or a person aggrieved who was a party to the proceedings before the Hearing Examiner. In addition, any Board Member, upon written notice to the Council Administrator, may request final argument.

COUNTY COUNCIL OF HARFORD COUNTY

Mylia A. Dixon
Council Administrator

Enclosure

cc: Applicant/Attorney; People's Counsel; Department of Planning and Zoning



APPLICANTS: Windell & Donna Stambaugh,
Shirley Giles, & Love Fellowship Christian Center

**BEFORE THE
ZONING HEARING EXAMINER**

REQUEST: Variance to allow an institutional
building to be located within the required setback
in the R1 Urban Residential District

FOR HARFORD COUNTY

BOARD OF APPEALS

HEARING DATE: January 7, 2015

Case No. 5832

ZONING HEARING EXAMINER'S DECISION

APPLICANTS: Windell & Donna Stambaugh, Shirley Giles, et al.

CONTRACT PURCHASER: Love Fellowship Christian Center

LOCATION: 2908 – 2912 Philadelphia Road, Abingdon
Tax Map: 62 / Grid: 4A / Parcel: 583, 584, 605 & 621
First (1st) Election District

ZONING: R1 / Urban Residential District

REQUEST: Variance, pursuant to Section 267-55B(1), of the Harford County Code, to permit an institutional use within the required 50 foot use setback (20 foot setback proposed), in the R1/ Urban Residential District.

TESTIMONY AND EVIDENCE OF RECORD:

The subject parcel is an approximately 7.28 acre unimproved property, located on MD Route 7 (Philadelphia Road), adjacent to the William Paca/Old Post Road Elementary School, which abuts the property on the west side. The subject parcel itself is comprised of four separate parcels, currently undeveloped, with the remnants of past agricultural uses. According to the Staff Report, the topography of the subject property is moderate to steeply sloping from the north to the south, with the steep slopes found adjacent to HaHa Branch, which runs along the northern property line.

The Applicants desire to construct an approximately 18,400 square foot church sanctuary and related structures and improvements on the subject parcel. This would be an institutional use, and the Harford County Code requires a 50 foot setback from adjoining parcels. The proposed site plan shows the improvements coming to within 20 feet of adjoining uses and, therefore, this variance is requested. The requested variance relates to the property line which adjoins the William Paca/Old Post Road Elementary School and the Lola Lambert properties. The improvements to be constructed by the Applicant within the setback will consist of parking areas.

Case No. 5832 – Windell & Donna Stambaugh, Shirley Giles, et al
(Contract Purchaser: Love Fellowship Christian Center)

First for the Applicant testified Pastor Terrence Thompson of Love Fellowship Christian Center. Pastor Thompson described the history of his congregation. It has been in existence in Harford County for approximately 11 years, at various locations. The Church's vision has been to be a part of community, to be a physical center of its neighborhood and community. The congregation has located the subject parcel on which it plans to build the permanent facility, to include multi-purpose classrooms, media rooms, gymnasium, walking track, day care, meeting rooms, and a café, all to serve the needs of the congregation and surrounding community which will have access to the facilities. The interior facilities will include a basketball court and stage. A total of 173 parking spaces are proposed. This is intended to be a 'safe haven' for the community.

Next for the Applicant testified Patrick Richardson of Richardson Engineering, LLC. Mr. Richardson has been a professional engineer since 1988, is familiar with the site, and has developed a site plan for the project. Mr. Richardson described the property as being 7.28 acres in size. He described, with the assistance of Applicants' Exhibit No. 2, his prepared site plan, extensive areas of Natural Resource District to the north side of the parcel. The Natural Resource District consists of forest conservation and forest retention areas, wetlands and wetland buffers. Due to the large extent of the Natural Resource District, the Applicants' proposed improvements are forced to the south and southwest side of parcel. The parcel adjoins the Board of Education property on the southwest side, on which is located William Paca/Old Post Road Elementary School. Directly to the south the parcel adjoins a small property titled to Lola M. Lambert.

Mr. Richardson stated that between 30 – 40% of the parcel is Natural Resource District, which greatly impacts the available building area. Furthermore, a building the size proposed by the Applicants requires 167 parking spaces. If the requested variance is not granted, the available parking will be reduced by 36 spaces, which would substantially decrease the size of the proposed building.

For the Harford County Department of Planning and Zoning testified Anthony McClune, Deputy Director. Mr. McClune explained that the requested variance is necessary in order to impact the 50 foot use setback, which exists because this is an institutional use.

However, Mr. McClune explained that the variance will cause no real impact because the adjacent use is not residential but is, instead, the William Paca/Old Post Road Elementary School, which is also an institutional use. The smaller Lambert parcels are located to the south of the property and, while not institutional in nature, would suffer little if any impact. The failure of the Applicants to obtain a variance would result in the loss of a parking lane as well as a significant number of parking spaces which would impact the size of the proposed building.

Mr. McClune and the Department believe that the configuration of the property is unique due to the site's natural features and the Natural Resource District. The Department does not believe there will be any negative impact if the variance is granted. The Department has reviewed the proposed landscaping plan and has found it to be acceptable. The proposal will allow good traffic flow around the building, which the Department believes to be important. The Staff Report states, inter alia:

Case No. 5832 – Windell & Donna Stambaugh, Shirley Giles, et al
(Contract Purchaser: Love Fellowship Christian Center)

“The Co-Applicants are only proposing to locate a portion of their required parking and a drive aisle within the 50 foot use setback. The parking will be setback 20 feet from the property line. No portion of the proposed building will be located within the use setback. The proposed church will be located approximately 250 feet from the school building to the west. Landscaping will be provided along the perimeter of the parking area and include a mix of trees and shrubs. A Traffic Impact Analysis (TIA) was completed by the Co-Applicants and determined that all of the studied intersections would continue to operate in an acceptable level of service.

The granting of the variance should not have an adverse impact on the adjacent William Paca/Old Post Road Elementary School Complex. They are both institutional uses that are complimentary to one another and generally operate at different times. Also, there should be no adverse impact to adjacent Parcels 536 and 537 that are currently vacant.”

Next in support of the application testified Pastor Allan Gorman, at whose church facility Love Fellowship Christian Center is currently located. Pastor Gorman stated that Love Fellowship Christian Center had been a good neighbor to Pastor Gorman’s congregation, and he wholeheartedly supports Love Fellowship Christian Center and believes its mission.

No evidence or testimony was given in opposition to the requested variance. The file contains a letter from the Harford County Department of Planning and Zoning, which indicates that a Traffic Impact Analysis had been submitted and reviewed, and that “all off-site intersections will continue to operate at acceptable levels of service; therefore, no off-site improvements are required”.

Also, a letter from Harford County Public Schools which indicates no objection to the requested variance is contained within the file.

APPLICABLE LAW:

Section 267-11 of the Harford County Code allows the granting of a variance to the requirements of the Code:

“Variances.

- A. *Except as provided in Section 267-63.H (Chesapeake Bay Critical Area Overlay District, variances), variances from the provisions or requirements of this Part 1 may be granted if the Board finds that:*
 - (1) *By reason of the uniqueness of the property or topographical conditions, the literal enforcement of this Part 1 would result in practical difficulty or unreasonable hardship.*

Case No. 5832 – Windell & Donna Stambaugh, Shirley Giles, et al
(Contract Purchaser: Love Fellowship Christian Center)

- (2) *The variance will not be substantially detrimental to adjacent properties or will not materially impair the purpose of this Part 1 or the public interest.*
- B. *In authorizing a variance, the Board may impose such conditions regarding the location, character and other features of the proposed structure or use as it may deem necessary, consistent with the purposes of the Part 1 and the laws of the state applicable thereto. No variance shall exceed the minimum adjustment necessary to relieve the hardship imposed by literal enforcement of this Part 1. The Board may require such guaranty or bond as it may deem necessary to insure compliance with conditions imposed.*
- C. *If an application for a variance is denied, the Board shall take no further action on another application for substantially the same relief until after two (2) years from the date of such disapproval."*

Section 267-55B(1), and the accompanying table, establish the required 50 foot minimum use setback.

FINDINGS OF FACT AND CONCLUSIONS OF LAW:

Love Fellowship Christian Center is a religious institution which has been in existence in Harford County for over 10 years. During those years, Love Fellowship has shared facilities with other congregations.

Love Fellowship has now secured a property on which it can construct its permanent home, and plans to construct an approximately 18,000 square feet of improvements, including 173 parking spaces.

Due to the fact that the subject parcel adjoins residentially zoned properties, a 50 foot use setback is imposed, which is significantly greater than a normal setback. The Church is unable to comply with this setback and construct the improvements envisioned. Even though the parcels to be occupied by Love Fellowship are in excess of 7 acres, because of the existence of the Natural Resource District, the proposed improvements are pushed to the southwest side of the subject parcel and into the required 50 foot setback.

Contributing to the uniqueness of the Church's situation is the fact that the greatest part of its impacted lot line is shared with not a residential use, but rather an institutional use, being the William Paca/Old Post Road Elementary School Complex. The 50 foot use setback was created in order to maintain a healthy distance between institutional uses and residential uses. However, in the instant case, the two adjoining uses are, in fact, institutional which obviates the need for such an expanded setback. A much smaller portion of the impacted lot line is along residentially but vacant parcels which should not be impacted to any foreseeable extent by requested variance.

Case No. 5832 – Windell & Donna Stambaugh, Shirley Giles, et al
(Contract Purchaser: Love Fellowship Christian Center)

The failure of the Applicants to obtain the requested variance will result in a significantly reduced parking area and improvements. The Church would simply not be able to construct the proposed facility without the requested variance.

Accordingly, it is found that the Applicants, as a result of unusual natural features and topographical conditions of the property, would be unable to build a church sufficient for its projected needs and as a result will suffer a practical difficulty. The variance requested is minor in nature and is the minimum necessary in order to alleviate the Applicants' practical difficulty. No adverse impact has been identified, and none should result if the variance is granted.

CONCLUSION:

It is recommended that the requested variance be granted, subject to the following conditions:

1. The Applicant shall obtain Site Plan approval for all proposed improvements.
2. The Applicant shall obtain all applicable permits and inspections for all proposed improvements.
3. All landscaping shall be installed in accordance with the proposed landscaping plan (Attachment 12). The landscaping shall be routinely maintained and replaced as necessary.

Date: February 27, 2014



ROBERT F. KAHOE, JR.
Zoning Hearing Examiner

Any appeal of this decision must be received by 5:00 p.m. on March 27, 2015.

Martin O'Malley, *Governor*
Anthony G. Brown, *Lt. Governor*



James T. Smith, Jr., *Secretary*
Melinda B. Peters, *Administrator*

September 11, 2014

RE: Harford County
MD 7, east of MD 24
Love Fellowship Christian Center
SHA Tracking No. 14APHA018XX
County No. TIA 14-091 series 1
Traffic Impact Study
Mile Point 5.11

Mr. Alex Rawls
Harford County Planning & Zoning
Land Use and Transportation Planning Section
220 South Main Street
Bel Air, Maryland 21014

Dear Mr. Rawls:

Thank you for the opportunity to review the Traffic Impact Study (TIS) prepared by Traffic Concepts, Inc., dated June 2014, for the Love Fellowship Christian Center development in Harford County, Maryland. The Maryland State Highway Administration (SHA) review is complete and we are pleased to respond.

- Access to the religious center development (18,400 square foot church) is proposed via one (1) full-movement site access to MD 7.
- The study analyzed the following intersections under existing, background and future conditions and roadway sections under future conditions:
 - US 40 intersection with Abingdon Road/Otter Point Road
 - MD 24 intersection with US 40/Otter Creek Ramps
 - MD 24 intersection with MD 7
 - MD 24 intersection with Edgewood Road
 - MD 7 intersection with Edgewood Road
 - MD 7 intersection with Abington Road
 - MD 7 intersection with Site Access
- The report concludes that the study intersections will continue to operate at acceptable levels of service under future conditions.

Based on the information provided, please address the following comments in a point-by-point response:

My telephone number/toll-free number is _____
Maryland Relay Service for Impaired Hearing or Speech 1.800.735.2258 Statewide Toll Free

1. Please provide an eastbound left turn lane, with a 100 foot taper on MD 7 at the site access.
2. Please provide an acceleration lane and a deceleration lane along westbound MD 7 at the site access.
3. Please note that any improvements within the SHA right-of-way must include bicycle and pedestrian accommodations consistent with SHA polices, standards and practices.
4. Please note that SHA has a Highway Needs Inventory (HNI) project (Project No. HA4245177) along MD 7 from MD 24 to MD 159 to widen the roadway to a four lane closed section. An additional 85 feet of right-of-way along the north side of MD 7 from the SHA's existing right-of-way line may be needed for the proposed improvement and TMDL requirements in the future. Please coordinate with Mr. Jordan Vogt, SHA District 4, regarding potential site impacts. Mr. Jordan can be reached by phone at 410-229-2330 or by email at jvogt@sha.state.md.us.

The SHA concurs with the report findings for this project as currently proposed and will not require the submission of any additional traffic analyses. However, an access permit will be required for all construction within the SHA right of way. Please submit seven (7) hard copies and one (1) electronic copy of design plans and a point-by-point response addressing the above comments to the SHA Access Management Division addressed to Mr. Steven D. This plan submittal must include a signing and pavement marking plan. Please reference the SHA Tracking Number on future submissions. Unless specifically indicated in the SHA response on this report, the comments contained herewith do not supersede previous comments made on this development. Please note that if this project has not obtained the SHA access permit and begun construction of improvements within five (5) years of this approval an updated analysis must be resubmitted for SHA review and concurrence that the proposed improvements continue to mitigate the development's traffic impacts prior to an extension of the approval. If you have questions or comments regarding the enclosed traffic review, please contact Mr. Paul Silberman at 443-741-3500 or via email at psilberman@sabra-wang.com.

Sincerely,


Steven D. Foster, Chief Development Manager
Access Management Division

SDF/elw/ps

cc: Ms. Rola Daher, SHA DSED
Ms. Mary Deitz, SHA RIPD
Mr. Bob French, SHA CPD
Mr. Derek Gunn, SHA DSED
Mr. Mark Keeley, Traffic Concepts, Inc. (mkeeley@traffic-concepts.com)

Ms. Dami Kehinde, SHA RIPD
Ms. Erin Kuhn, SHA District 4
Ms. L'Kiesha Markley, SHA RIPD
Ms. Rochelle Outten, SHA AMD
Mr. Johnson Owusu-Amoako, SHA CPD
Mr. Dave Peake, SHA District 4
Mr. Saed Rahwanji, SHA TDSD
Mr. Rick Richardson, Richard Engineering, LLC. (rick@richardsonengineering.net)
Ms. Erica Rigby, SHA AMD
Ms. Tina Saxon, SHA RIPD
Mr. Paul Silberman, SHA AMD (consultant)
Mr. Errol Stoute, SHA TDSD
Mr. Morteza Tadayon, SHA DSED
Mr. Jordan Vogt, SHA District 4
Mr. Eric Waltman, SHA AMD
Ms. Wendy Wolcott, SHA District 4
Mr. Rich Zeller, SHA AMD

BARRY GLASSMAN
HARFORD COUNTY EXECUTIVE

BILLY BONIFACE
DIRECTOR OF ADMINISTRATION



BRADLEY F. KILLIAN
DIRECTOR OF PLANNING & ZONING

FOREST CONSERVATION PLAN

Love Fellowship Christian Center

FCP No.: FCP14-091 Submitted: 07-23-14 Revised: 09-30-15
Series: 2
Map: 62 Parcels: 583, 584, 605, 621

Steve Eichler
Richardson Engineering, LLC
30 East Padonia Road
Suite 500
Timonium, MD 21093

Dear Mr. Eichler:

The Harford County Department of Planning and Zoning has reviewed this Forest Conservation Plan (FCP 14-091-2) for its conformance with the Harford County Forest and Tree Conservation Regulations. A Site Plan (S-14-091-3, Love Fellowship Christian Center) was submitted concurrently with this plan. A prior Forest Stand Delineation (FSD 14-013-1) was submitted and approved.

The subject property is 7.28 acres with a total of 3.20 +/- acres of forest within the net tract area. No forest clearing is proposed for the development of this site which results in an afforestation/reforestation obligation of 1.70 acres. The reforestation requirement shall be met through a combination of 0.35 acres onsite plantings, 0.51 acres of individual street trees landscaping and offsite planting of 0.84 acres.

The Developer has proposed to provide 0.84 acres of the reforestation requirement through off-site plantings. An off-site planting plan (FCP-14-091-1A) was submitted to the department. A total of 0.84 acres of reforestation will be planted on the Amos Property, (Tax Map 47; Parcel 250). The off-site property totals approximately 75.80 acres and is located on the west side of Putnam and Pleasantville Roads. The property is located in the Winters Run watershed. The Department of Planning and Zoning shall require stakes and tree shelters be installed to ensure survivability of the proposed plantings. This area shall be recorded as a "Forest Retention Area". A boundary survey must be recorded with a Declaration of Covenants protecting the Forest Retention Area prior to issuance of any building permits or grading permits.

Maryland's New Center Of Opportunity

410.638.3103 | 410.879.2000 | TTY Maryland Relay 711 | www.harfordcountymd.gov
220 South Main Street, Bel Air, Maryland 21014

THIS DOCUMENT IS AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST

FOREST CONSERVATION PLAN
FCP14-091 Series 2
Love Fellowship Christian Center, Inc.
Page 2 of 2

A Memorandum of Understanding (M.O.U) shall accompany the final plat and note that the Department of Planning and Zoning shall have access to inspect the reforestation on a bi-annual basis. The final plat(s) and documents shall be recorded in the Harford County Land Records prior to grading or building permit application.

A surety in the amount of \$29,620.80 (based upon 74,052 square feet of reforestation feet x .40 = \$29,620.80) is required to assure the planting and survival of the required reforestation. A different surety amount may be posted if an acceptable cost estimate from a landscape contractor is submitted to the Department of Planning and Zoning and approved. The surety and reforestation agreement shall be submitted to the Department of Planning and Zoning and approved prior to the issuance of any grading or building permits.

All reforestation work must be completed within two (2) years of the issuance of the first grading permit. The Department of Planning and Zoning must be notified in writing when all reforestation work has been completed. Partial release of the surety will occur after the first growing season if the plantings are completed and are demonstrating adequate survival rates. A full release of the surety may occur after the second growing season provided that the plantings are continuing to survive at an acceptable rate.

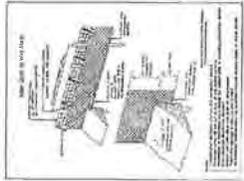
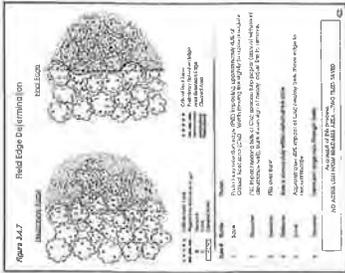
The Department has found this FCP accurate and complete. Therefore, the Department of Planning and Zoning hereby grants approval of this FCP, based on all conditions above. If you have any questions, or would like to discuss this further, please contact this office at 410-638-3103.

Sincerely,

 10-14-15
Milton D. Davenport, Chief Date
Development Review

MDD: EV/dm

cc: Planner; Owner; Consultant; File



Forest Conservation
 Unadorned data tables of
 which are subject to fees or
 imposed by the Harford County
 Forest Conservation Act of 1975.

Trees for Your Future

Forest Conservation
 Unadorned data tables of
 which are subject to fees or
 imposed by the Harford County
 Forest Conservation Act of 1975.

Forest Conservation
 Unadorned data tables of
 which are subject to fees or
 imposed by the Harford County
 Forest Conservation Act of 1975.

- REQUIREMENTS:**
1. Meet all the preservation, rearing, and sediment control devices.
 2. Hold one construction meeting between developer, project engineer, contractor and County Inspector.
 3. Clear and grade site, install infrastructure, and construct church building.
 4. Submit all documents when necessary.
 5. Provide for erosion prevention, 40 individual major trees (for 0.21 acres of forest) or 400 minor trees (for 0.21 acres of forest) to be planted on the property. Install protective signage around reforestation areas. Replant any trees that die within one year of planting.
 6. Meet all other requirements of the County Inspector.
 7. Maintain signage for 24 months. Average for 12 months and 24 month inspections. Also necessary re-signage in case of monitoring period.

- CONSTRUCTION REQUIREMENTS:**
1. Construction shall be completed within 90 days of the start of construction.
 2. There shall be no clearing, grading, construction or disturbance of vegetation in the Forest Conservation Element except as stipulated by Harford County.
 3. All construction shall be completed within 90 days of the start of construction.
 4. All construction shall be completed within 90 days of the start of construction.
 5. All construction shall be completed within 90 days of the start of construction.
 6. All construction shall be completed within 90 days of the start of construction.

Richardson Engineering, LLC

30 East Potomac Road, Suite 500
 Annapolis, MD 21403
 Phone: 410-260-1532 Fax: 443-801-1208

FINAL FOREST CONSERVATION PLAN
 FOR

LOVE FELLOWSHIP
 CHRISTIAN CENTER, INC.
 2908 & 2912 PHILADELPHIA ROAD

| | |
|--------------------------|-------------|
| HARFORD COUNTY, MARYLAND | |
| 1ST ELECTION DISTRICT | |
| DATE OF PREPARATION | 11-15-2011 |
| DATE OF REVISION | 11-15-2011 |
| PROJECT NO. | 11-2011-001 |
| SCALE | AS SHOWN |

Construction Requirements

1. Construction shall be completed within 90 days of the start of construction.
2. There shall be no clearing, grading, construction or disturbance of vegetation in the Forest Conservation Element except as stipulated by Harford County.
3. All construction shall be completed within 90 days of the start of construction.
4. All construction shall be completed within 90 days of the start of construction.
5. All construction shall be completed within 90 days of the start of construction.
6. All construction shall be completed within 90 days of the start of construction.

Signs for Plantings

1. The developer shall post a security in the amount of \$20,000 to ensure that the 0.25 acres of native reforestation, including tree landings, and 0.84 acres of forest are planted within 90 days of the start of construction in accordance with the procedures established by Harford County.
2. Minimum of security shall equal the following:
 - A. Initial plantings shall be performed. Construction shall be completed within 90 days of the start of construction. Construction shall be completed within 90 days of the start of construction. Construction shall be completed within 90 days of the start of construction.
 - B. After one growing season, construction shall be completed within 90 days of the start of construction. Construction shall be completed within 90 days of the start of construction. Construction shall be completed within 90 days of the start of construction.
 - C. After two growing seasons, construction shall be completed within 90 days of the start of construction. Construction shall be completed within 90 days of the start of construction. Construction shall be completed within 90 days of the start of construction.

Prepared by:
 Richardson Engineering, LLC
 Date: 11/15/2011

DAVID R. CRAIG
HARFORD COUNTY EXECUTIVE



C. PETE GUTWALD
DIRECTOR OF PLANNING AND ZONING

MARY F. CHANCE
DIRECTOR OF ADMINISTRATION

HARFORD COUNTY GOVERNMENT

Department of Planning and Zoning **FOREST STAND DELINEATION PLAN**

Love Fellowship Christian Center

FSD No.: FSD14-013
Series: 1
Map: 62

Submitted: 7-2-14 Revised:
Parcel: 583, 584, 605, 621

Henry A. Leskinen
Eco-Science Professionals, Inc.
P. O. Box 5006
Glen Arm, MD 21057

Dear Mr. Leskinen:

The Department of Planning and Zoning has reviewed this Forest Stand Delineation for its conformance with the Harford County Forest Conservation Regulations.

The subject properties contain a total of 7.28+/- acres with approximate 3.2 +/- acres of forest. There are environmentally sensitive areas onsite in the form of streams, non-tidal wetlands and 100-Year Floodplain. Ha Ha Branch generally runs along the northern property boundary and requires a 150-foot buffer delineated from the centerline of the stream. The non-tidal wetlands require a 75-Foot Natural Resource District (NRD) buffer. A 50-foot NRD buffer is required along the limits of the 100-Year Floodplain. In the event that the three buffers overlap, the greatest of the three shall Prevail.

A waiver request shall be submitted to the Department of Planning and Zoning for any specimen trees that are proposed to be removed during any future development of the subject property. The waiver shall include details about the size, health of the tree and a justification for removal.

The Department has found this FSD accurate and complete. Therefore, the Department of Planning and Zoning hereby grants approval of this FSD. If you have any questions, or would like to discuss this further, please call Shane Grimm at 410-638-3136.

Sincerely,


Milton D. Davenport, Chief Date 8/7/14
Development Review

MDD: SG/lac:
Planner; File Subdivision Review

Preserve Maryland's past promoting Maryland's future
(410) 638-3103

MY DIRECT PHONE NUMBER IS



GENERAL NOTES:

1. SEE SHEET 2 OF 4.
2. PROPERTY OWNERS: MARYLAND NATURAL AND HISTORICAL SOCIETY, INC. (MNSH); HARFORD COUNTY, MARYLAND; LOVE FELLOWSHIP CHRISTIAN CENTER, INC. (LFCC).
3. PROJECT: WETLAND AND FOREST STAND DELINEATION.
4. DATE: 11/15/10.
5. SCALE: AS SHOWN.
6. THIS PLAN IS A PRELIMINARY DESIGN AND IS NOT TO BE USED FOR CONSTRUCTION.
7. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
8. THE DESIGNER IS NOT RESPONSIBLE FOR ANY CHANGES OR ERRORS IN THIS PLAN.
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18. THE DESIGNER IS NOT RESPONSIBLE FOR ANY TAXES.
19. THE DESIGNER IS NOT RESPONSIBLE FOR ANY FEES.
20. THE DESIGNER IS NOT RESPONSIBLE FOR ANY OTHER COSTS.

APPROVED

Department of Planning & Survey

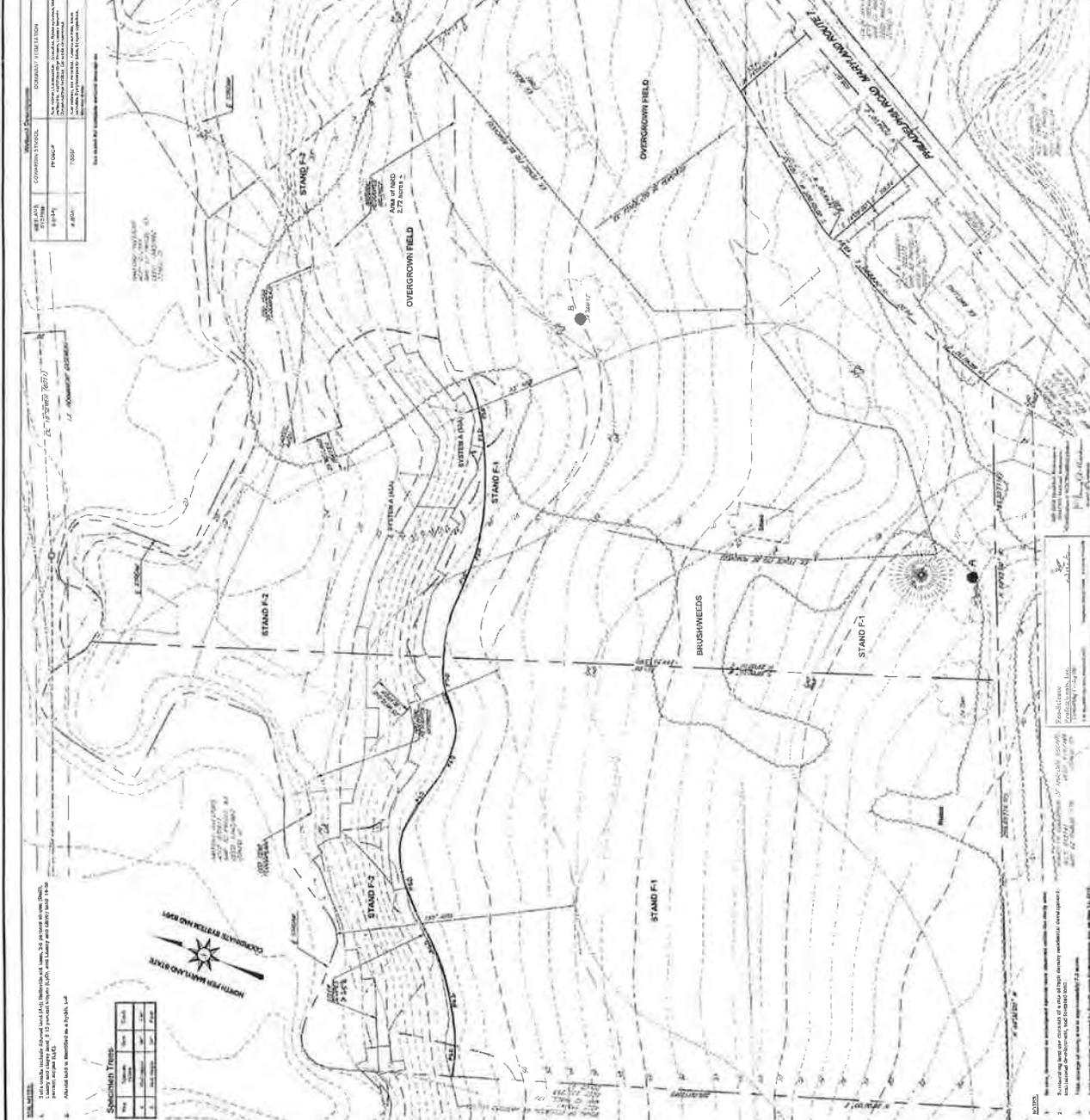
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Richardson Engineering, LLC

WETLAND and FOREST STAND DELINEATION

FOR

LOVE FELLOWSHIP
CHRISTIAN CENTER, INC.
2908 & 2912 PHILADELPHIA ROAD

1ST ELECTION DISTRICT HARFORD COUNTY, MARYLAND

NO. 100, P.O. Box 500
Towson, Maryland 21286
Phone 410-560-1002 Fax 443-901-2089

DATE: 11/15/10
JOB NO.: 1001001
SCALE: 1" = 50'

BARRY GLASSMAN
HARFORD COUNTY EXECUTIVE

BILLY BONIFACE
DIRECTOR OF ADMINISTRATION



BRADLEY F. KILLIAN
DIRECTOR OF PLANNING & ZONING

December 18, 2014

STAFF REPORT

BOARD OF APPEALS CASE NO. 5832

APPLICANT/OWNER: Windell and Donna K. Stambaugh, Shirley Giles, et al
237 Kensington Parkway, Abingdon, MD 21009

CO-APPLICANT: Love Fellowship Christian Center
2408 Creswell Road, Bel Air, MD 21015

ATTORNEY: N. Scott Phillips, Esq.
322 North Howard Street, Baltimore, MD 21201

LOCATION: 2908-2912 Philadelphia Road, Abingdon, MD 21009
Tax Map: 62 / Grid: 4A / Parcel: 583, 584, 605 & 621
Election District: First (1)

ACREAGE: 7.28+/- acres

ZONING: R1/Urban Residential District

DATE FILED: November 5, 2014

HEARING DATE: January 7, 2014

APPLICANTS' REQUEST and JUSTIFICATION:

Attachment 1.

CODE REQUIREMENTS:

The Applicants are requesting a variance pursuant to Section 267-55B(1) of the Harford County Code to allow an institutional use within the required 50-foot use setback (20-feet proposed) in the R1/Urban Residential District.

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220 South Main Street, Bel Air, Maryland 21014

THIS DOCUMENT IS AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST

STAFF REPORT

Board of Appeals Case Number 5832

Windell & Donna Stambaugh, Shirley Giles, et al

Love Fellowship Christian Center

Page 2 of 4

Land Use – Master Plan:

The Applicants' property is located on the north side of MD Route 7 (Philadelphia Road) approximately ½ mile east of MD Route 24. A location map and a copy of the Co-Applicants' site plan are enclosed with the report (Attachments 2 and 3).

The subject property is located within the Development Envelope. The predominant land use designations in this area of the County are Low, Medium and High Intensity as well as Industrial/Employment. The Natural Features Map reflects Stream Systems and Chesapeake Bay Critical Area (CBCA). The subject property is designated as Medium Intensity which is defined by the 2012 Master Plan as:

Medium Intensity – Areas within the Development Envelope where residential development is the primary land use. Development densities shall range from 3.5 to 7.0 dwelling units per acre. Limited commercial uses such as grocery and convenience stores, banks, and professional offices are intended for this designation.

Enclosed with the report are copies of the Edgewood Community Area portion of the 2012 Land Use Map and the Natural Features Map (Attachments 4 and 5).

Land Use – Existing:

The existing land uses in this area of the County generally conform to the overall intent of the 2012 Master Plan. The predominant land uses in this area of the County are residential and industrial. The area is a mix of old and new subdivisions with housing types ranging from townhomes to single family dwellings. Commercial uses are generally located along the MD Route 7 and MD Route 24 corridors and include a wide variety of retail and service uses; including, restaurants, shopping centers, convenience stores with gas pumps, motor vehicle repair, hotels and motels, and personal and professional services. There are several industrial parks within the area that contain a variety of uses such as warehousing, wholesaling and processing, equipment sales, research and testing and commercial amusements. Institutional uses in the area include churches and schools, such as William Paca/Old Post Road Elementary School which abuts the subject property to the west.

The church is proposed to be developed on the 7.28+/- tract which is currently comprised of four parcels. The subject properties are currently undeveloped with remnants of a barn, driveways and fences. It appears that the majority of Parcel 621 was previously used as pasture while Parcel 605 is predominantly mature forest. There is a right-of-way along the western parcel boundary that provides access to two landlocked parcels. A dwelling was previously located on Parcel 583 and the driveway accessing the dwelling was located on Parcel 584.

STAFF REPORT

Board of Appeals Case Number 5832

Windell & Donna Stambaugh, Shirley Giles, et al

Love Fellowship Christian Center

Page 3 of 4

The tributary known as Ha Ha Branch generally runs near or along the northern property line of the two parcels. There are non-tidal wetlands and 100-Year Floodplain associated with Ha Ha Branch. The topography of the subject properties is moderate to steeply sloping from the north to the south. The steep slopes are generally found adjacent to Ha Ha Branch. A copy of the topography map, aerial photograph and site photographs are enclosed with the report (Attachments 6, 7 and 8).

Zoning:

The zoning classifications in the area are generally consistent with the 2012 Master Plan as well as the existing land uses. Residential zoning in the area includes R1, R2, and R3/Urban Residential Districts. Commercial zoning includes RO/Residential Office District, B1/Neighborhood Business District, B2/Community Business District, B3/General Business District and CI/Commercial Industrial District. GI/General Industrial District zoning is typically found within the industrial parks in the area. The subject parcels are zoned R1/Urban Residential District (Attachment 9).

SUMMARY:

The Applicants are requesting a variance pursuant to Section 267-55B(1) of the Harford County Code to allow an institutional use within the required 50-foot use setback (20-feet proposed) in the R1/Urban Residential District.

Variances of this nature may be approved by the Board of Appeals pursuant to Section 267-11 of the Harford County Code, provided it finds by reason of the uniqueness of the property or topographical conditions that literal enforcement of the Code would result in practical difficulty and undue hardship. Further, the Applicants must show that the request will not be substantially detrimental to adjacent properties or will not materially impair the purpose of the Code or the public interest.

The Co-Applicants are proposing to construct a church on four parcels on the north side of MD Route 7. The four parcels will be required to be combined. The William Paca/Old Post Road Elementary School complex abuts the parcels that are the subject of this request to the west. Two residential parcels (Parcels 536 & 537) along MD Route 7 are also adjacent to the subject property. The subject property and the adjacent residential parcel and school parcel are both zoned R1/Urban Residential District. The Zoning Code requires a 50-foot use setback when institutional uses abut an adjacent residential lot. Although the schools are defined as an institutional use, the parcel they are located on is zoned R1/Urban Residential District and meets the definition of an adjacent residential lot.

The development of the proposed church on the subject parcels is constrained by the unique shape of the parcels and sensitive environmental features associated with Ha Ha Branch, which generally runs near or along the northern property line. Approximately 2.74 acres of the overall 7.28 acres is encumbered with non-tidal wetlands, 100-Year Floodplain and associated Natural

STAFF REPORT

Board of Appeals Case Number 5832

Windell & Donna Stambaugh, Shirley Giles, et al

Love Fellowship Christian Center

Page 4 of 4

Resource District (NRD) buffers. The buffers include a 50-foot floodplain buffer, 75-foot non-tidal wetland, and 150-foot buffer from Ha Ha Branch since it is designated as a major tributary. There are also steep slopes adjacent to Ha Ha Branch. These constraints required the Co-Applicant's to locate the proposed church closer to the western side of the overall tract in order to accommodate stormwater management on the eastern side of the property.

The Co-Applicants are only proposing to locate a portion of their required parking and a drive aisle within the 50-foot use setback. The parking will be setback 20-feet from the property line. No portion of the proposed building will be located within the use setback. The proposed church will be located approximately 250-feet from the school building to the west. Landscaping will be provided along the perimeter of the parking area and include a mix of trees and shrubs. A Traffic Impact Analysis (TIA) was completed by the Co-Applicants and determined that all of the studied intersections would continue to operate at an acceptable level of service.

The granting of the variance should not have an adverse impact on the adjacent William Paca/Old Post Road Elementary School Complex. They are both institutional uses that are complimentary to one another and generally operate at different times. Also, there should be no adverse impact to adjacent Parcels 536 and 537 that are currently vacant. The Co-Applicants are proposing a facility which will be an amenity to the community. The Co-Applicants have received letters from an adjacent neighbor as well as the Board of Education indicating that they have no objection to the requested variance (Attachments 10 and 11).

RECOMMENDATION and or SUGGESTED CONDITIONS:

The Department of Planning and Zoning recommends that the requested variance be approved subject to the following conditions:

1. The Applicant shall obtain Site Plan approval for the proposed church.
2. The Applicant shall obtain all applicable permits and inspections for the proposed church.
3. All landscaping shall be installed in accordance with the proposed landscaping plan (Attachment 12). The landscaping shall be routinely maintained and replaced as necessary.



Shane P. Grimm, Chief
Site Plan & Building Permits Review



Anthony S. McClune, AICP
Deputy Director, Planning and Zoning

SG/ASM/jf

BARRY GLASSMAN
HARFORD COUNTY EXECUTIVE

BILLY BONIFACE
DIRECTOR OF ADMINISTRATION



BRADLEY F. KILLIAN
DIRECTOR OF PLANNING & ZONING

December 19, 2014

Windell and Donna Stambaugh
Shirley Giles
237 Kensington Parkway
Abingdon, MD 21009

RE: Board of Appeals Case No. 5832

Dear Addressees:

Enclosed is a copy of the Staff Report prepared by this Department in connection with the above pending Board of Appeals Case. This report has been submitted to the Zoning Hearing Examiner and will become a part of the case file.

Our Staff Report is furnished to the Hearing Examiner to provide general information concerning the request, the subject property, and background data. The report, as well as our Department's recommendation, is submitted for information purposes only, as any finding in the Board of Appeals case must necessarily be the decision of the Zoning Hearing Examiner alone.

If you have any questions, please call the Zoning Department at 410-638-3103, or 410-879-2000, extension 3103.

Sincerely,

Shane Grimm, AICP
Chief, Site Plans & Permits Review

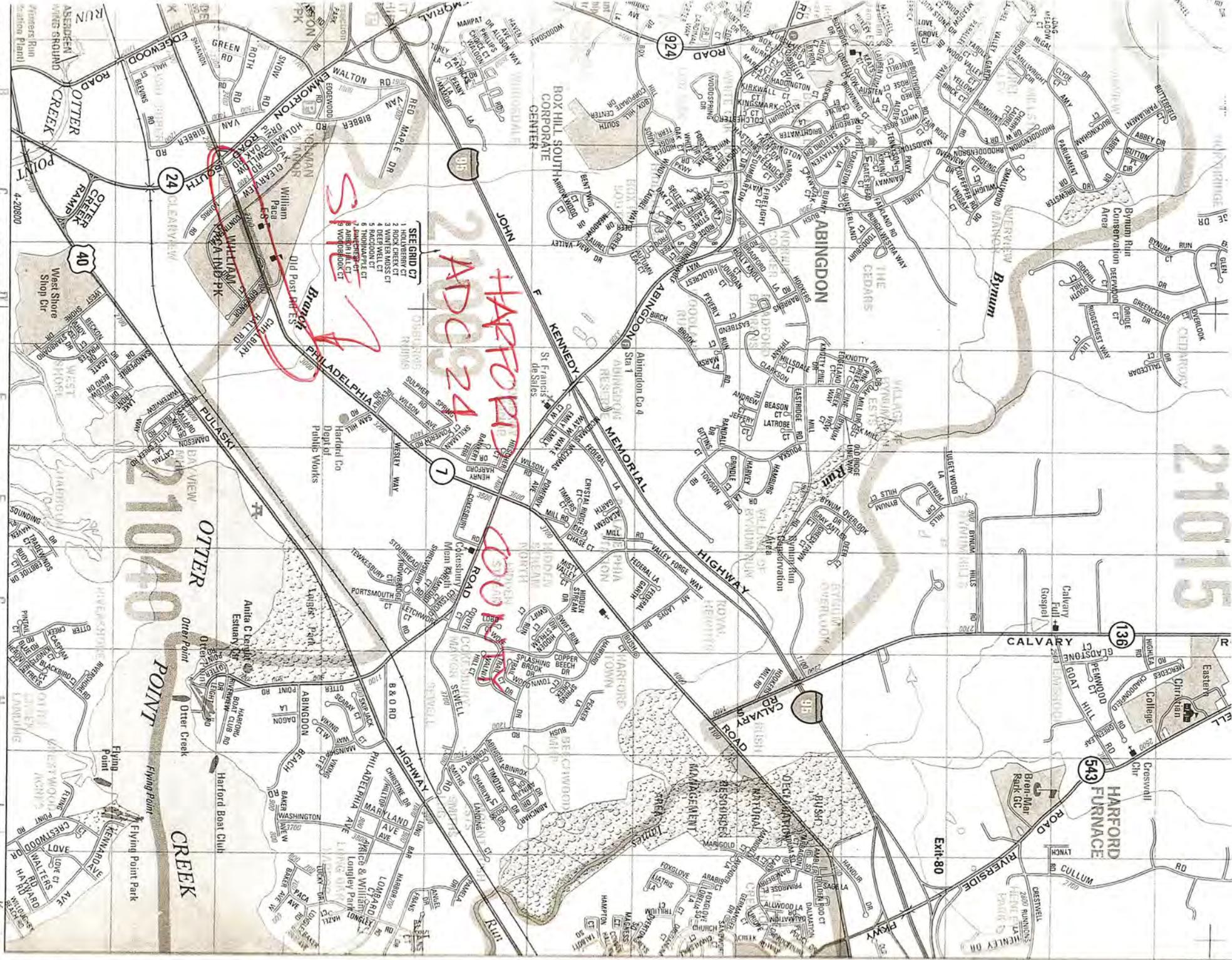
SPG/jf
Enclosure

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3 WINTER WOODS CT
4 DEEP WALK CT
5 HAZARDON CT
6 HAZARDON CT
7 HAZARDON CT
8 HAZARDON CT
9 WOODBROOK CT

HARFORD
COUNTY
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HILLIS-CARNES

ENGINEERING ASSOCIATES

**Geotechnical Engineering Study
Love Fellowship Christian Center Building
2908 & 2912 Philadelphia Road
Abingdon, Harford County, Maryland
HCEA Job No. E18051**

Prepared for:

Love Fellowship Christian Ctr.
2408 Creswell Road
Bel Air, MD 21015

September 18, 2018

1371 Brass Mill Road, Suite E
Belcamp, MD 21017
Phone (443) 760-3900
Fax (443) 327-4694
www.hcea.com

Reverend T. Anthony Thompson
Love Fellowship Christian Ctr.
2408 Creswell Road
Bel Air, MD 21015

Re: Geotechnical Engineering Study
Love Fellowship Christian Center Building
2908 & 2912 Philadelphia Road, Abingdon, MD
HCEA Project No. E18051

Dear Reverend Thompson:

Hillis-Carnes Engineering Associates, Inc. (HCEA) is pleased to submit this report conveying the results of our subsurface exploration and subsequent geotechnical evaluation for the proposed building for the above referenced project site. The project site is located at 2908 and 2912 Philadelphia Road in the Abingdon area of Harford County, Maryland.

The material samples collected during the subsurface exploration will be stored at our Annapolis Junction, Maryland office for a period of 30 days from the date of this letter. If you require the samples to be stored for a longer period of time or to be delivered to you or another party, please make a request in writing prior to the end of the 30-day period. Otherwise, the samples will be discarded at the end of the 30-day storage period.

HCEA appreciates the opportunity to provide the geotechnical consultation for this project, and we will remain available for further consultation during the various design stages. Please contact our office if questions arise concerning the contents of this report, or additional consultation, design, inspection, or testing services are required.

Sincerely,
HILLIS-CARNES ENGINEERING ASSOCIATES, INC.



Charles A. Shaw, P.E.
Branch Manager
cshaw@hcea.com

A handwritten signature in black ink, appearing to read "David G. Patron".

David G. Patron, P.E.
Vice President
dpatron@hcea.com

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FIGURES

(Contained in the Appendix)

- Figure 1: Project Location Map
- Figure 2: Soil Boring Location Plan

1.0 PURPOSE AND SCOPE

The purpose of this study was to determine the general subsurface conditions at the boring locations and to evaluate those conditions with respect to concept and design of the building foundations, slab-on-grade, and earthwork activities for the proposed building.

The evaluations and recommendations presented in this report were developed from a review of project characteristics and an interpretation of the general subsurface conditions at the site based on the results of the site exploration. The stratification lines indicated on the boring logs represent the approximate boundaries between soil types. However, the in-situ transitions may actually be gradual. Such variations can best be evaluated during construction and any minor design changes can be made at that time, if necessary.

An evaluation of the site with respect to potential construction problems and recommendations dealing with the earthwork and inspection during construction are also included. The inspection is considered necessary to verify the subsurface conditions and to verify that the soils-related construction phases are performed properly. The Appendix of this report contains a summary of the field and laboratory work performed for this study.

2.0 PROJECT CHARACTERISTICS

The project site is located at 2908 and 2912 Philadelphia Road in the Abingdon area of Harford County, Maryland and is shown on the Project Location Map (Figure 1, in the Appendix). The project site is roughly bordered by a residential property to the east, Philadelphia Road and wooded areas to the south, Harford County Board of Education property to the west, and a stream and wooded area to the north. The project site slopes down to the north toward the existing stream. The highest levels are near elevation (EL) 88 in the southwestern corner of the project site and the lower levels are near EL 26 in the northeastern corner of the project site.

The site is presently occupied by a shed located in the eastern portion of the proposed building pad. A fence is located within the eastern portion of the site and runs across the central portion of the site. The eastern portion of the proposed building area is open and grass covered with light underbrush and the western portion of the proposed building area is wooded with light underbrush.

Based on the *Concept Stormwater Management Plan and Erosion & Sediment Control Overlay* dated May 20, 2015, it is our understanding the project consists of the construction of an 18,400 square-foot, one-story church building with associated utilities and pavement areas, and a stormwater management (SWM)

detention pond and nine (9) environmental site design (ESD) facilities. In addition, there is a proposed 9,600 square-foot future addition planned along the west of the proposed building. The finished floor elevation for the proposed building is planned to be at EL 65.00. The scope of services for this geotechnical exploration only includes the proposed 18,400 square-foot, one-story building.

Based on the *Concept Stormwater Management Plan and Erosion & Sediment Control Overlay*, the proposed northern and central portions of building area will require fills ranging from approximately 1 foot to 8 feet to achieve the proposed building subgrade elevation. The remaining portion of the proposed building will require excavations of up to approximately 7 feet to achieve the proposed building subgrade elevation.

Structural loading information was not available at the time this report was being prepared. It has therefore been assumed that maximum wall loads will be on the order of 3 kips to 4 kips per linear foot and that maximum column loads will be on the order of 50 kips. Settlements on the order of 1-inch total and 3/4-inch differential have been assumed to be tolerable by the structure. Should any of the project characteristics, structural loading conditions or required settlement criteria change or differ from those outlined above, then this office should be contacted for a re-evaluation of the site.

3.0 FIELD EXPLORATION AND LABORATORY TESTING

In order to determine the general subsurface conditions at the project site to develop building foundation and floor slab, eight (8) geotechnical Standard Penetration Test (SPT) borings were drilled within the proposed building footprint. The borings were identified as B-1 through B-8 and were drilled to depths of 20 feet to 30 feet below the existing ground surface. The locations and depths of the borings were determined by HCEA.

The boring locations were staked by a Joseph Thompson & Associates, LLC survey crew. The surface elevations were provided by Joseph Thompson & Associates, LLC. The approximate boring locations are shown on the Soil Boring Location Plan, Figure 2 in the Appendix.

The borings were advanced with hollow-stem augers and the subsurface soils were generally sampled at 2.5 ft. to 5.0 ft. intervals. Samples were taken by driving a 1-3/8 inch I.D. (2-inch O.D.) split-spoon sampler in general accordance with ASTM D-1586 specifications. The sampler was first seated 6 inches to penetrate any loose cuttings and then was driven an additional 12 inches with blows of a 140-pound hammer, falling 30 inches. The number of hammer blows required to drive the sampler the final 12 inches is designated as the "Penetration Resistance" or "N" value. The penetration resistance (N-value) can be used as an indication of the soil strength and compression characteristics.

Portions of each SPT soil sample were placed in glass jars and transported to HCEA's laboratory. All of the jarred samples were visually examined in the laboratory by the Geotechnical Engineer and visually-manually classified in general accordance with the Unified Soil Classification System (USCS) and ASTM D-2488. The Unified Soil Classification Symbols appear on the Records of Soil Exploration (boring logs) and the system nomenclature is generally described in the Appendix.

Laboratory testing was performed on representative samples, which generally consisted of Atterberg limits, sieve analyses, and moisture content, used in general accordance with ASTM D-2487 to obtain the USCS classification of the soil tested. The results of the laboratory testing are presented in the Appendix. The USCS classifications presented on the boring logs were revised where necessary based on the laboratory test results.

4.0 SUBSURFACE CONDITIONS

Details of the subsurface conditions encountered at the site are shown on the boring logs. Strata divisions shown on the boring logs have been estimated based on visual examinations of the recovered boring samples and the collection intervals. In the field, strata changes could occur gradually and/or at different levels than indicated on the boring logs. A brief description of the subsurface conditions and pertinent engineering characteristics of the soils are given below.

Groundwater conditions indicated on the boring logs are those observed during the subsurface exploration. Fluctuations in groundwater levels should be expected and are typically influenced by changes in seasons, grading, runoff, infiltration rates, and may be influenced by other factors.

Generalized subsurface conditions and pertinent engineering characteristics of the soils based on the results of the current exploration are discussed below.

4.1 Site Geology

The project site has been mapped by the Maryland Geological Survey (Geological Map of Harford County dated 1968) as being underlain by the Potomac Group of Cretaceous age. The Potomac Group formation is more specifically described as consisting of interbedded quartzose gravels and sands with dark gray and multicolored silts and clays. This formation ranges from 0 feet to 800 feet in thickness.

4.2 Surficial Materials

As previously stated, the project site is currently occupied by a shed in the eastern portion of the proposed building pad, with the eastern portion of the proposed building area open and grass covered with light underbrush, and the

western portion of the proposed building area is wooded with light underbrush. All of the borings encountered topsoil and the thickness ranged between 5 inches and 7 inches. The actual topsoil thickness should be expected to vary across the proposed building area, and be thicker in the lower lying areas where sediments may collect. Therefore, the reported measurements should not be used solely to estimate the quantities of topsoil within the proposed building area.

Due to the project site likely being previously occupied by a single-family residence, existing fill and possible fill materials were encountered in all of the borings. Possible fill materials were encountered in Borings B-1 through B-4, B-6 and B-7 at depths of up to 13.5 feet below the existing ground surface. Fill materials were encountered in Borings B-5 and B-8 to depths of up to 8.5 feet below the existing ground surface. Possible fill materials may be natural soils but exhibit a soil stratification suggesting they were placed by mechanical versus natural methods. The existing and possible granular fill materials typically consisted of silty sand (SM), clayey sand (SC), gravelly sand (SP-SM) and sandy gravel (GP-GM) with subordinate amounts of roots and organics. The existing and possible fine-grained and cohesive fill materials typically consisted of lean clay (CL), silty clay (CL-ML), and silt (ML) with subordinate amounts of sand, gravel, roots and organics. The SPT N-values recorded for the existing and possible fill materials in the borings generally ranged from very soft to very stiff consistency in the fine-grained and cohesive soils and relative densities of granular soils ranged from loose to dense.

Since the size of the samples obtained is relatively small in comparison to the areal extent of the site and since the fill materials could be of similar composition to the natural soils encountered at the site, it is often difficult to determine the presence and composition of fill materials from the SPT samples. Therefore, as previously stated, it should be anticipated that the fill materials may be encountered at locations and different depths across the site due to the previous construction that has occurred on and around the proposed building area.

4.3 Natural Materials

Below the existing and possible fill materials, the natural soils encountered in the borings generally consisted of silt (ML), lean clay (CL), silty sand (SM), sand with silt and clay (SP-SM and SP-SC) and sandy gravel with clay (GP-GC). The SPT N-values recorded in the borings generally ranged from medium stiff to stiff consistency in the fine-grained and cohesive soils and relative densities of granular soils ranged from loose to medium dense.

4.4 Groundwater

Groundwater was monitored during and at completion for all of the borings, and 72 hours following the completion the borings at Borings B-3, B-5, and B-8, with the highest groundwater levels recorded in each boring. Groundwater was

encountered at all of the boring locations, except Boring B-5 at depths ranging from approximately 13 feet to 28 feet below the existing ground surface.

A more accurate determination of the hydrostatic water table would require the installation of perforated pipes or piezometers which could be monitored over an extended period of time. The actual level of the hydrostatic water table and the amount and level of perched water should be anticipated to fluctuate throughout the year, depending on variations in precipitation, surface run-off, infiltration, site topography, and drainage.

5.0 EVALUATIONS AND RECOMMENDATIONS

Our findings suggest that the site can be developed for the proposed building. Special consideration should be given to the proper monitoring of fill operations, footing excavations, and concrete placement in the building area.

The following recommendations have been developed on the basis of the previously described project characteristics and subsurface conditions. If there are any changes to the project characteristics or if different subsurface conditions are encountered during construction, HCEA should be consulted so that the recommendations of this report can be reviewed and revised accordingly.

5.1 General Site Preparation

The existing shed and any other existing structures will need to be removed prior to the initiation of new construction. We suggest that all available information regarding the existing utilities and any septic fields at the site be reviewed prior to construction. Removal should include any below-grade features (i.e., foundations). Any soft/loose soils detected immediately adjacent to the existing shed should also be removed.

Removal should also include topsoil and clearing and grubbing; unapproved existing or possible fill materials; frozen or wet soils, soft/loose soils within the proposed building footprint; and any other deleterious materials. Soft/loose soils, defined as SPT N-values less than or equal to 6 blows per foot, were encountered at Borings B-1, B-3, and B-8 at a depth ranging from the surface to approximately 5 feet below the existing ground surface and may be encountered in other areas within the proposed building pad. Due to soft/loose soils being encountered at Borings B-1 and B-3 up to approximately 2.5 feet below the existing ground surface, remediation such as disk and aerate or possible undercut and replacement, may be required in these areas to achieve a stable soil stratum prior to the placement of structural fill. In addition, existing fill materials were encountered in Borings B-5 and B-8 up to approximately 8.5 feet below the existing ground surface. HCEA does recommend that the fill materials encountered in Borings B-5 and B-8 be removed due to deleterious amounts of

organics, asphalt and wood fragments being encountered within the existing fill material. The fill materials within Boring B-5 will likely be removed during the demolition of the shed. Once the existing shed, any remaining foundations, unapproved existing and/or possible fill materials and any soft/loose soils are removed, the building foundation area should be backfilled up to the planned subgrade elevation with structural fill compacted in accordance with Section 5.2 of this report. HCEA recommends that test pits be performed prior to the construction of the building to more accurately determine the depth and lateral extent of the existing fill materials within the proposed building pad. These operations should be performed in a manner consistent with good erosion and sediment control practices.

After the initial stripping, clearing and grubbing and the removal of the shed and any unapproved fill materials is completed in the proposed building area, areas of the building pad to receive structural fill should be proofrolled. The proofrolling operations should be performed using a 20-ton, fully-loaded dump truck or another pneumatic-tire vehicle of similar size and weight. The purpose of the proofrolling will be to locate any near-surface pockets of soft or loose soils requiring undercutting. A Geotechnical Engineer or his authorized representative should witness the proofrolling operations and should determine which areas need further undercutting and/or stabilization.

Due to the presence of on-site fine-grained and cohesive soils, the site earthwork should be completed during the warmer and drier seasons, which should facilitate simple aeration and recompaction of the surface soils to achieve stability. Should earthwork be accomplished during the cooler and wetter seasons, more comprehensive mechanical aeration/disking and/or the use of chemical additives (Portland cement, kiln dust, quicklime), may be required in order to reduce moisture contents and achieve the required degree of compaction or stability, and limit the need to undercut and replace the unstable materials.

5.2 Fill Selection, Placement and Compaction

All material to be used as fill or backfill should be examined, tested and approved by the Geotechnical Engineer or his authorized representative. In general, the on-site soils which are free from organic and other deleterious components can be re-used as general site fill. The majority of the on-site possible fill materials should be suitable for various construction purposes and can be identified by a Geotechnical Engineer or his authorized representative during the grading operations.

Based on the anticipated suitable quantity of on-site soils, off-site borrow material will likely be required for structural fill to achieve the proposed building slab subgrade elevation. The imported fill material should have Unified Soil Classifications of SM or more granular.

Due to the fine-grained and cohesive nature of a majority of the surficial soils encountered in the borings, the traffic of heavy equipment, including heavy construction equipment, could create pumping and a general deterioration of these soils, especially if conducted in the presence of water. If exposed to water, these soils can deteriorate and become difficult to work. The grading should therefore, if at all possible, be carried out during the warmer and drier seasons. This should minimize these potential problems, although they may not be eliminated. If such problems arise, the Geotechnical Engineer should be consulted for an evaluation of the conditions.

All fill should be placed in relatively horizontal 8-inch (maximum) loose lifts and should be compacted to a minimum of 95 percent of the Standard Proctor (ASTM D 698) maximum dry density. Fill materials in landscape and other non-structural areas should be compacted to at least 90 percent of the Standard Proctor maximum dry density, if significant subsidence of the fill under its own weight is to be avoided. Field moisture contents should be maintained within 2 to 3 percentage points of the optimum moisture content in order to provide adequate compaction. A sufficient number of in-place density tests should be performed by an experienced Engineering Technician on a full-time basis to verify that the proper degree of compaction is being obtained.

Structural fill should extend a minimum of 10 feet beyond building lines where floor slabs are to be constructed on the fill. Fill slopes no steeper than 2(H):1(V), or flatter, should be used. New fills should be properly benched into existing slopes.

5.3 Foundations

Our findings indicate that the proposed building can be supported on spread footings bearing on approved natural soils and/or new engineered fill placed over approved natural soils, approved possible fill materials or a combination thereof. Foundations should not be supported on or over any existing or possible fill materials, if encountered, unless the fill materials are specifically observed, tested and approved by the Geotechnical Engineer or his designated representative in the field during construction.

Based on the anticipated grading activities, structural loads, the settlement tolerances, and the general soil conditions which were encountered, it is recommended that a net allowable design soil bearing pressure of 2,500 psf be used for proportioning footings in approved natural soils or possible fill materials, in new structural fill placed over approved natural soils, possible fill materials or a combination thereof.

To preclude punching shear failures, wall footings should be at least 18 inches wide and column footings should be at least 24 inches wide. It is recommended that wall footings be provided with longitudinal reinforcement. Proper longitudinal

reinforcement is designed to provide the footings with greater bending capacity that should allow them to span across localized weak bearing zones that may go undetected during construction. Since a net soil pressure is specified, the weights of the footing concrete and backfill need not be added to the structural loads when proportioning the footings.

All footing excavations should be examined by a Geotechnical Engineer or his authorized representative prior to the placement of concrete. The purpose of the examination would be to verify that the exposed materials will be capable of supporting the design bearing pressure. If soft pockets are encountered in the footing excavations, the unsuitable materials should be removed to a suitable footing bearing level and replaced with lean (1500 psi) concrete, flowable fill or engineered fill. The soft/loose soils should be removed during the grading operations; however, due to the project site being occupied by existing buildings, it should be anticipated that localized foundation areas may need to be over-excavated to achieve a suitable bearing level.

In all areas where foundations will be supported on structural fill, the structural fill should extend a sufficient distance laterally beyond the perimeters of footings. For design purposes, plans should reflect structural fill extending a minimum distance of 12 inches laterally beyond a footing perimeter for each linear foot of structural fill below the bearing level.

Exterior footings and footings in unheated areas should be located at depths of at least 30 inches below final exterior grades so as to provide adequate protection from frost heave. If the structure is to be constructed during the winter months or if the building interior will likely be subjected to freezing temperatures after footing construction, then all footings should be provided with adequate frost cover protection. Otherwise, interior footings can be located on suitable materials at nominal depths below finished floor grade.

The Seismic Site Classification based on the recommendations found in the International Building Code 2012 standard is D.

5.4 Ground-Supported Slabs

Floor slabs should be supported on approved firm natural soils, approved possible fill materials or on new compacted structural fill. The slab subgrade should be prepared in accordance with the procedures outlined in Sections 5.1 and 5.2 of this report. In particular, the slab subgrade should be heavily proofrolled to delineate any soft areas requiring undercutting and/or stabilization.

It is recommended that the slab be directly supported on a minimum 4-inch layer of clean granular materials such as washed sand, clean sand and gravel, or screened, crushed stone. A suitable moisture/vapor barrier (that is, polyethylene sheeting) should also be provided. These procedures will provide a moisture

break that will help to prevent capillary rise, dampness of the floor slabs and also help to cure the slab concrete. It is also recommend that construction joints on the slab surface and isolation joints between the slab and structural walls be provided (such that the slab would be ground-supported).

There could be a time lag between the backfilling operations of the building pad and a point when the contractor is ready to pour the slab-on-grade. Environmental conditions and construction traffic often disturb the subgrade soils. Provisions should be made in the construction specifications for the restoration of the subgrade soils to a stable condition prior to the placement of the concrete for the floor slabs. The undercut areas should be backfilled up to planned subgrade elevations with structural fill compacted in accordance with Section 5.2 of this report. The slab subgrades should be rolled and sealed at the end of each work day and covered with stone as soon as possible to protect the stability of the subgrade soils.

5.5 Groundwater and Drainage

As previously stated, the borings did not encounter any groundwater during the drilling operations. Based on the anticipated grading activities and observed groundwater levels, groundwater is not likely to pose a concern during grading operations and building foundation construction; however, groundwater may be encountered during the removal of the existing buildings, particularly adjacent to the foundations. Water infiltration resulting from precipitation or surface run-off, or encountered adjacent to the existing below-grade walls should be managed by means of sump pits and pumps, or by gravity ditching procedures. If any conditions are encountered which cannot be handled in such a manner, the Geotechnical Engineer should be consulted.

Adequate drainage should be provided at the site to minimize any increases in the moisture contents of the foundation soils. Areas should be sloped away from the building to prevent ponding of water around the building.

6.0 RECOMMENDED ADDITIONAL SERVICES

Additional soil and foundation engineering, testing, and consulting services recommended for this project are summarized below:

Test Pits: A Geotechnical Engineer or his authorized representative should observe test pits within the proposed building pad prior to construction to further determine the extent of the fill materials and removal operations, if required.

Site Preparation, Building Demolition and Proofrolling: A Geotechnical Engineer or his authorized representative should observe the removal of the existing shed foundations, existing septic field (if required), any existing utilities and

unapproved fill materials. In addition, a Geotechnical Engineer or experienced Soils Inspector should inspect any proposed slab area beyond the building removal and backfilling operations after it has been stripped. The inspector should determine if any undercutting or in-place densification is necessary to prepare a subgrade for fill placement or for slab support.

Fill Placement and Compaction: A Geotechnical Engineer or his authorized representative should witness the required fill operations and should take sufficient in-place density tests to verify that the specified degree of fill compaction is achieved. He should observe and approve borrow materials used and should determine if their existing moisture contents are suitable.

Footing Excavation Inspections: A Geotechnical Engineer or his authorized representative should examine and test the footing excavations for the building foundations. The examinations and tests should verify that the design bearing pressure is available and that no loose pockets exist beneath the bearing surfaces of the footing excavations. Based on the results of the examinations and tests, the bearing surfaces would be approved or it would be recommended that any loose or soft soils be undercut to expose satisfactory bearing materials.

7.0 REMARKS

This report has been prepared to aid in the evaluation of the site for the proposed building construction. It is considered that adequate recommendations have been provided to serve as a basis for design of plans and specifications. Additional recommendations can be provided as needed.

These analyses and recommendations are, of necessity, based on the information made available to us at the time of the actual writing of the report and the on-site conditions, surface and subsurface, that existed at the time the exploratory borings were drilled. Further assumption has been made that the limited exploratory borings, in relation both to the areal extent of the site and to depth, are representative of conditions across the site. The recommendations contained herein have been based on the eight (8) soil borings. Actual subsurface conditions encountered could vary from those outlined in this report.

If subsurface conditions are encountered which differ from those reported herein, this Office should be notified immediately so that the analyses and recommendations can be reviewed and/or revised as necessary. It is also recommended that:

1. We are given the opportunity to review any plans and specifications prepared subsequent to this geotechnical study in order to comment on the interaction of the soil conditions as described herein and the design requirements.

2. A Geotechnical Engineer or his authorized representative is present at the site during the construction phase to verify installation according to the approved plans and specifications. This is particularly important during removal of any existing building foundations, placement and compaction of fill materials within the proposed building area.

Please note that successful completion of the project is dependent on your compliance with all of the recommendations provided in this report. While represented separately, the recommendations represent work that is intertwined. The successful completion of the project is specifically conditioned on your complying with all recommendations.

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted engineering principles and practices. This warranty is in lieu of all other warranties either implied or expressed. Hillis-Carnes Engineering Associates, Inc. assumes no responsibility for interpretations made by others based on work or recommendations made by HCEA.

APPENDIX

Figure 1 Project Location Map

Figure 2 Soil Boring Location Plan

Records of Soil Exploration (Boring Logs)

Particle Size Distribution Reports

Field Classification Sheet



HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name Love Fellowship Christian Center, Inc. - Building Boring No. B-1
 Location 2908/2912 Philadelphia Rd, Abingdon, MD Job # E18051

SAMPLER

Datum _____ Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman M. Stawas
 Surf. Elev. 62.02 ft Hammer Drop 30 in. Rock Core Diameter NA Inspector _____
 Date Started 7/2/2018 Pipe Size (O.D.) 2.0 in. Boring Method HSA Date Completed 7/2/2018

| Elevation/ Depth (ft) | SOIL SYMBOLS/ SAMPLE CONDITIONS | Description | Boring and Sampling Notes | Sample No. | Rec. (in) | NM (%) | SPT Blows | SPT N (blows/ft) | | | | |
|--------------------------|--|---|---|---------------|--------------|-----------|-----------|------------------|----|----|----|--|
| | | | | | | | | N | 10 | 30 | 50 | |
| 0 | D | Beige-brown and buff, moist, loose, gravelly SAND, some silt, trace organics (SM; possible FILL) | 7" topsoil | 1 | 14 | 6.9 | 1-2-4 | 6 | | | | |
| 60 | D | Light red/orange-brown, moist, medium dense, gravelly SAND, trace clay, trace silt (SM/SC; possible FILL) | | 2 | 18 | 7.7 | 8-10-11 | 21 | | | | |
| 5 | D | Tan/orange-brown and buff, moist, dense, sandy GRAVEL, some clay (GP-GM; possible FILL) | | 3 | 18 | 4.2 | 12-20-17 | 37 | | | | |
| 55 | D | Light gray, moist, medium dense, silty fine SAND, trace mica (SM) | | 4 | 18 | | 5-7-7 | 14 | | | | |
| 10 | D | Tan-gray to orange-brown, moist to very moist, medium dense, SAND, some silt, trace mica (SM) | Groundwater encountered at 19.5 ft while drilling | 5 | 18 | | 7-9-10 | 19 | | | | |
| 50 | D | Boring terminated at 20 ft | Boring was backfilled at completion | 6 | 18 | | 9-13-16 | 29 | | | | |
| 15 | D | | | | | | | | | | | |
| 45 | D | | | | | | | | | | | |
| 20 | D | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |

SAMPLER TYPE

DRIVEN SPLIT SPOON UNLESS OTHERWISE
 PT - PRESSED SHELBY TUBE
 CA - CONTINUOUS FLIGHT AUGER
 RC - ROCK CORE

SAMPLE CONDITIONS

D - DISINTEGRATED
 I - INTACT
 U - UNDISTURBED
 L - LOST

AT COMPLETION
 AFTER 24 HRS.
 AFTER ___ HRS.

**GROUND
WATER**

DRY ft.

**CAVE IN
DEPTH**

17.2 ft.

BORING METHOD

HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 DC - DRIVING CASING
 MD - MUD DRILLING

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name Love Fellowship Christian Center, Inc. - Building Boring No. B-2
 Location 2908/2912 Philadelphia Rd, Abingdon, MD Job # E18051

SAMPLER

Datum _____ Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman M. Stawas
 Surf. Elev. 59.26 ft Hammer Drop 30 in. Rock Core Diameter NA Inspector _____
 Date Started 7/2/2018 Pipe Size (O.D.) 2.0 in. Boring Method HSA Date Completed 7/2/2018

| Elevation/ Depth (ft) | SOIL SYMBOLS/ SAMPLE CONDITIONS | Description | Boring and Sampling Notes | Sample No. | Rec. (in) | NM (%) | SPT Blows | SPT N (blows/ft) | | | |
|--------------------------|--|--|---|---------------|--------------|-----------|-----------|------------------|----|----|----|
| | | | | | | | | N | 10 | 30 | 50 |
| 0 | D | Brown, moist, medium dense, SAND, some gravel, some clay, some silt, trace organics (SM; possible FILL) | 7" topsoil | 1 | 6 | 27.0 | 3-4-8 | 12 | | | |
| 55 | I | Light gray and light orange-brown, moist, stiff, lean CLAY, some sand, some gravel, some silt, trace mica, trace roots, with lenses of fine sand and silt (CL) | | 2 | 18 | 13.6 | 4-6-7 | 13 | | | |
| 5 | I | | | 3 | 18 | 12.3 | 8-6-9 | 15 | | | |
| 50 | I | Light gray and light red/orange-brown, moist, stiff, SILT, some fine sand, some clay, some gravel (ML) | | 4 | 18 | | 6-7-6 | 13 | | | |
| 10 | I | | | 5 | 18 | | 8-9-11 | 20 | | | |
| 45 | I | Tan and orange-brown, moist to very moist, medium dense, SAND, trace silt and clay, trace mica (SP-SC) | Groundwater encountered at 19 ft while drilling | 6 | 18 | | 8-9-10 | 29 | | | |
| 15 | I | | | | | | | | | | |
| 40 | I | | | | | | | | | | |
| 20 | | Boring terminated at 20 ft | Boring was backfilled at completion | | | | | | | | |
| 35 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |

SAMPLER TYPE

DRIVEN SPLIT SPOON UNLESS OTHERWISE
 PT - PRESSED SHELBY TUBE
 CA - CONTINUOUS FLIGHT AUGER
 RC - ROCK CORE

SAMPLE CONDITIONS

D - DISINTEGRATED
 I - INTACT
 U - UNDISTURBED
 L - LOST

AT COMPLETION
 AFTER 24 HRS.
 AFTER ___ HRS.

GROUND WATER

DRY ft. _____ ft. _____ ft.

CAVE IN DEPTH

16.9 ft. _____ ft. _____ ft.

BORING METHOD

HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 DC - DRIVING CASING
 MD - MUD DRILLING

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name Love Fellowship Christian Center, Inc. - Building Boring No. B-3
 Location 2908/2912 Philadelphia Rd, Abingdon, MD Job # E18051

SAMPLER

Datum _____ Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman M. Stawas
 Surf. Elev. 55.80 ft Hammer Drop 30 in. Rock Core Diameter NA Inspector _____
 Date Started 6/29/2018 Pipe Size (O.D.) 2.0 in. Boring Method HSA Date Completed 6/29/2018

| Elevation/ Depth (ft) | SOIL SYMBOLS/ SAMPLE CONDITIONS | Description | Boring and Sampling Notes | Sample No. | Rec. (in) | NM (%) | SPT Blows | SPT N (blows/ft) | | | | |
|--------------------------|--|--|---|---------------|--------------|-----------|-----------|------------------|----|----|----|--|
| | | | | | | | | N | 10 | 30 | 50 | |
| 0 | I | Beige/orange-brown, moist soft, silty CLAY, some sand, trace roots (CL-ML; possible FILL) | 5" topsoil | 1 | 18 | 17.8 | 2-2-2 | 4 | | | | |
| 5 | I | Light red/orange-brown and light gray, moist, medium dense, clayey fine SAND, some gravel, some silt (SC) | | 2 | 18 | 13.1 | 3-6-6 | 12 | | | | |
| 5 | I | Dark orange-brown to light gray with orange-brown, moist, medium dense, SAND, with light gray silty/clayey seams (SM/SC) | | 3 | 18 | 20.6 | 4-7-6 | 13 | | | | |
| 10 | I | | | 4 | 18 | | 12-11-12 | 23 | | | | |
| 15 | I | Light gray with orange-brown, moist, loose/medium stiff, clayey SAND or sandy CLAY (SC/CL) | Groundwater encountered at 19 ft while drilling | 5 | 18 | | 5-4-3 | 7 | | | | |
| 20 | I | Light gray to gray-purple with brown, moist, stiff, CLAY, some sand (CL) Boring terminated at 20 ft | Boring was backfilled after 72 hours | 6 | 18 | | 4-6-7 | 13 | | | | |
| 25 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |

SAMPLER TYPE

DRIVEN SPLIT SPOON UNLESS OTHERWISE
 PT - PRESSED SHELBY TUBE
 CA - CONTINUOUS FLIGHT AUGER
 RC - ROCK CORE

SAMPLE CONDITIONS

D - DISINTEGRATED
 I - INTACT
 U - UNDISTURBED
 L - LOST

GROUND WATER

AT COMPLETION 14.9 ft.
 AFTER 24 HRS. _____ ft.
 AFTER 72 HRS. 13.0 ft.

CAVE IN DEPTH

_____ ft.
 _____ ft.
13.2 ft.

BORING METHOD

HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 DC - DRIVING CASING
 MD - MUD DRILLING

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name Love Fellowship Christian Center, Inc. - Building Boring No. B-4
 Location 2908/2912 Philadelphia Rd, Abingdon, MD Job # E18051

SAMPLER

Datum _____ Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman M. Stawas
 Surf. Elev. 64.26 ft Hammer Drop 30 in. Rock Core Diameter NA Inspector _____
 Date Started 7/2/2018 Pipe Size (O.D.) 2.0 in. Boring Method HSA Date Completed 7/2/2018

| Elevation/ Depth (ft) | SOIL SYMBOLS/ SAMPLE CONDITIONS | Description | Boring and Sampling Notes | Sample No. | Rec. (in) | NM (%) | SPT Blows | SPT N (blows/ft) | | | |
|--------------------------|--|---|---|---------------|--------------|-----------|-----------|------------------|----|----|----|
| | | | | | | | | N | 10 | 30 | 50 |
| 0 | D | Light brown with buff, moist, loose, sandy GRAVEL, some clay, trace silt, trace roots (GC; possible FILL) | 7" topsoil | 1 | 10 | 9.2 | 2-4-5 | 9 | | | |
| 5 | I | Orange-brown and tan, moist, stiff, sandy lean CLAY, some gravel, some silt, trace roots, with mica (CL; possible FILL) | | 2 | 18 | 16.6 | 5-5-5 | 10 | | | |
| 5 | I | Orange/gray-brown, moist, medium dense, SAND, some gravel, some clay, trace roots, trace mica (SC; possible FILL) | | 3 | 18 | 14.7 | 7-10-20 | 30 | | | |
| 55 | D | Orange-brown with tan to light gray with orange-brown, moist, medium dense, fine SAND, some silt, some gravel, trace mica (SM; possible FILL in Sample 4) | | 4 | 15 | | 10-13-14 | 27 | | | |
| 50 | I | | Groundwater encountered at 28 ft while drilling | 5 | 18 | | 4-6-7 | 13 | | | |
| 45 | I | Dark orange-brown to brown and tan, moist to wet, medium dense, SAND, trace silt, trace gravel (SP-SM) | | 6 | 18 | | 7-7-7 | 14 | | | |
| 40 | I | | | 7 | 18 | | 12-14-10 | 24 | | | |
| 25 | | Boring terminated at 25 ft | Boring was backfilled at completion | | | | | | | | |

SAMPLER TYPE

DRIVEN SPLIT SPOON UNLESS OTHERWISE
 PT - PRESSED SHELBY TUBE
 CA - CONTINUOUS FLIGHT AUGER
 RC - ROCK CORE

SAMPLE CONDITIONS

D - DISINTEGRATED
 I - INTACT
 U - UNDISTURBED
 L - LOST

AT COMPLETION _____ ft.
 AFTER 24 HRS. _____ ft.
 AFTER ___ HRS. _____ ft.

GROUND WATER

DRY _____ ft.

CAVE IN DEPTH

26.2 _____ ft.

BORING METHOD

HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 DC - DRIVING CASING
 MD - MUD DRILLING

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name Love Fellowship Christian Center, Inc. - Building Boring No. B-5
 Location 2908/2912 Philadelphia Rd, Abingdon, MD Job # E18051

SAMPLER

Datum _____ Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman M. Stawas
 Surf. Elev. 62.18 ft Hammer Drop 30 in. Rock Core Diameter NA Inspector _____
 Date Started 6/29/2018 Pipe Size (O.D.) 2.0 in. Boring Method HSA Date Completed 6/29/2018

| Elevation/ Depth (ft) | SOIL SYMBOLS/ SAMPLE CONDITIONS | Description | Boring and Sampling Notes | Sample No. | Rec. (in) | NM (%) | SPT Blows | SPT N (blows/ft) | | | |
|--------------------------|--|---|--|---------------|--------------|-----------|-----------|------------------|----|----|----|
| | | | | | | | | N | 10 | 30 | 50 |
| 0 | D | Brown, moist, loose, silty SAND, some gravel, trace clay, trace roots (SM; FILL) | 6" topsoil | 1 | 12 | | 4-3-4 | 7 | | | |
| 60 | D | Light gray and brown, moist stiff, SILT, some sand, some gravel, some clay, trace organics (ML; FILL) | | 2 | 13 | | 5-5-7 | 12 | | | |
| 5 | I | Light gray and orange-brown, moist, medium stiff, lean CLAY, some fine sand, some silt (CL) | | 3 | 18 | | 6-6-8 | 14 | | | |
| 55 | I | Dark gray/orange-brown, moist medium dense, SAND, some clay, some silt, some gravel (SC/SM) | | 4 | 18 | | 6-5-6 | 11 | | | |
| 10 | I | Dark orange-brown, moist, medium dense, SAND, some silt, trace clay (SM) | Groundwater not encountered while drilling | 5 | 18 | | 6-8-10 | 18 | | | |
| 50 | I | Tan and orange-brown, very moist, medium dense, SAND, trace clay or silt (SP-SC) | Boring was backfilled after 72 hours | 6 | 17 | | 6-7-7 | 14 | | | |
| 15 | I | Boring terminated at 20 ft | | | | | | | | | |
| 45 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |
| 35 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |

SAMPLER TYPE

DRIVEN SPLIT SPOON UNLESS OTHERWISE
 PT - PRESSED SHELBY TUBE
 CA - CONTINUOUS FLIGHT AUGER
 RC - ROCK CORE

SAMPLE CONDITIONS

D - DISINTEGRATED
 I - INTACT
 U - UNDISTURBED
 L - LOST

AT COMPLETION
 AFTER 24 HRS.
 AFTER 72 HRS.

GROUND WATER
DRY ft.
 _____ ft.
DRY ft.

CAVE IN DEPTH
17.2 ft.
 _____ ft.
16.6 ft.

BORING METHOD

HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 DC - DRIVING CASING
 MD - MUD DRILLING

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name Love Fellowship Christian Center, Inc. - Building Boring No. B-6
 Location 2908/2912 Philadelphia Rd, Abingdon, MD Job # E18051

SAMPLER

Datum _____ Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman M. Stawas
 Surf. Elev. 70.94 ft Hammer Drop 30 in. Rock Core Diameter NA Inspector _____
 Date Started 7/2/2018 Pipe Size (O.D.) 2.0 in. Boring Method HSA Date Completed 7/2/2018

| Elevation/ Depth (ft) | SOIL SYMBOLS/ SAMPLE CONDITIONS | Description | Boring and Sampling Notes | Sample No. | Rec. (in) | NM (%) | SPT Blows | SPT N (blows/ft) | | | | | | | | | | | |
|--------------------------|--|---|---|---------------|--------------|-----------|-----------|------------------|----|----|----|--|--|--|--|--|--|--|--|
| | | | | | | | | N | 10 | 30 | 50 | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 70 | D | Light brown, moist, loose, gravelly SAND, some silt, trace clay, with organics (SM; possible FILL) | 5" topsoil | 1 | 18 | | 1-3-5 | 8 | | | | | | | | | | | |
| | D | Light brown, moist, medium dense to dense, sandy GRAVEL, trace silt, trace mica (GP-GM; possible FILL) | | 2 | 18 | 3.3 | 8-6-8 | 14 | | | | | | | | | | | |
| 5 | D | | | 3 | 18 | | 7-8-11 | 19 | | | | | | | | | | | |
| 65 | D | | | 4 | 18 | 4.0 | 8-16-16 | 32 | | | | | | | | | | | |
| | I | -trace glass with metal fragment | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | | | |
| | I | Light gray and orange-brown with purple-gray, moist, stiff, sandy SILT, fine sand (ML) | Groundwater encountered at 28 ft while drilling | 5 | 18 | 18.6 | 6-6-9 | 15 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | | | |
| | I | Light gray to orange-brown and tan, moist, medium dense, fine SAND, silty to some silt, trace mica (SM) | | 6 | 18 | | 12-14-15 | 29 | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | |
| | I | -trace glass | | 7 | 18 | | 8-12-12 | 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | |
| | I | Dark orange-brown, very moist, medium dense, SAND, trace silt, trace glass (SP-SM) | | 8 | 18 | | 9-12-12 | 24 | | | | | | | | | | | |
| 30 | | Boring terminated at 30 ft | Boring was backfilled at completion | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | |

SAMPLER TYPE

DRIVEN SPLIT SPOON UNLESS OTHERWISE
 PT - PRESSED SHELBY TUBE
 CA - CONTINUOUS FLIGHT AUGER
 RC - ROCK CORE

SAMPLE CONDITIONS

D - DISINTEGRATED
 I - INTACT
 U - UNDISTURBED
 L - LOST

GROUND WATER

AT COMPLETION DRY ft.
 AFTER 24 HRS. _____ ft.
 AFTER _____ HRS. _____ ft.

CAVE IN DEPTH

25.2 ft.

BORING METHOD

HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 DC - DRIVING CASING
 MD - MUD DRILLING

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name Love Fellowship Christian Center, Inc. - Building Boring No. B-7
 Location 2908/2912 Philadelphia Rd, Abingdon, MD Job # E18051

SAMPLER

Datum _____ Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman M. Stawas
 Surf. Elev. 67.56 ft Hammer Drop 30 in. Rock Core Diameter NA Inspector _____
 Date Started 7/2/2018 Pipe Size (O.D.) 2.0 in. Boring Method HSA Date Completed 7/2/2018

| Elevation/ Depth (ft) | SOIL SYMBOLS/ SAMPLE CONDITIONS | Description | Boring and Sampling Notes | Sample No. | Rec. (in) | NM (%) | SPT Blows | SPT N (blows/ft) | | | | |
|--------------------------|--|---|---|---------------|--------------|-----------|-----------|------------------|----|----|----|--|
| | | | | | | | | N | 10 | 30 | 50 | |
| 0 | I | Dark orange-brown, moist, medium stiff, lean CLAY, some gravel, some sand, trace roots | 5" topsoil | 1 | 10 | 12.5 | 2-3-4 | 7 | | | | |
| 65 | I | (CL; possible FILL) | | 2 | 18 | 8.2 | 10-16-13 | 29 | | | | |
| 5 | I | Orange/gray-brown, moist medium dense, SAND, some gravel, some silt, trace clay, with mica (SC/SM; possible FILL) | | 3 | 18 | 10.6 | 8-11-8 | 19 | | | | |
| 60 | I | Beige/orange-brown, moist, very stiff, sandy SILT, some gravel, with mica (ML; possible FILL) | | 4 | 18 | | 8-10-9 | 19 | | | | |
| 10 | I | Red/orange-brown, moist medium dense, sandy GRAVEL, some clay (GP) | | 5 | 18 | | 7-5-5 | 10 | | | | |
| 55 | I | Light gray, moist, loose, fine SAND, some silt, trace mica (SM) | Groundwater encountered at 21 ft while drilling | 6 | 18 | | 8-7-5 | 12 | | | | |
| 15 | I | Orange-brown to light gray with orange-brown, moist, medium dense, SAND, some silt/clay to clayey/silty, no gravel to some gravel, trace mica (SM/SC) | | 7 | 18 | | 7-7-9 | 16 | | | | |
| 20 | I | Boring terminated at 25 ft | Boring was backfilled at completion | | | | | | | | | |
| 45 | I | | | | | | | | | | | |
| 25 | I | | | | | | | | | | | |
| 40 | I | | | | | | | | | | | |
| 30 | I | | | | | | | | | | | |
| 35 | I | | | | | | | | | | | |

| | | | |
|-------------------------------------|--------------------------|------------------------------|--------------------------------|
| SAMPLER TYPE | SAMPLE CONDITIONS | GROUND WATER | CAVE IN DEPTH |
| DRIVEN SPLIT SPOON UNLESS OTHERWISE | D - DISINTEGRATED | AT COMPLETION <u>DRY</u> ft. | <u>22.1</u> ft. |
| PT - PRESSED SHELBY TUBE | I - INTACT | AFTER 24 HRS. _____ ft. | _____ ft. |
| CA - CONTINUOUS FLIGHT AUGER | U - UNDISTURBED | AFTER ____ HRS. _____ ft. | _____ ft. |
| RC - ROCK CORE | L - LOST | | |
| | | | BORING METHOD |
| | | | HSA - HOLLOW STEM AUGERS |
| | | | CFA - CONTINUOUS FLIGHT AUGERS |
| | | | DC - DRIVING CASING |
| | | | MD - MUD DRILLING |

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1' WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name Love Fellowship Christian Center, Inc. - Building Boring No. B-8
 Location 2908/2912 Philadelphia Rd, Abingdon, MD Job # E18051

SAMPLER

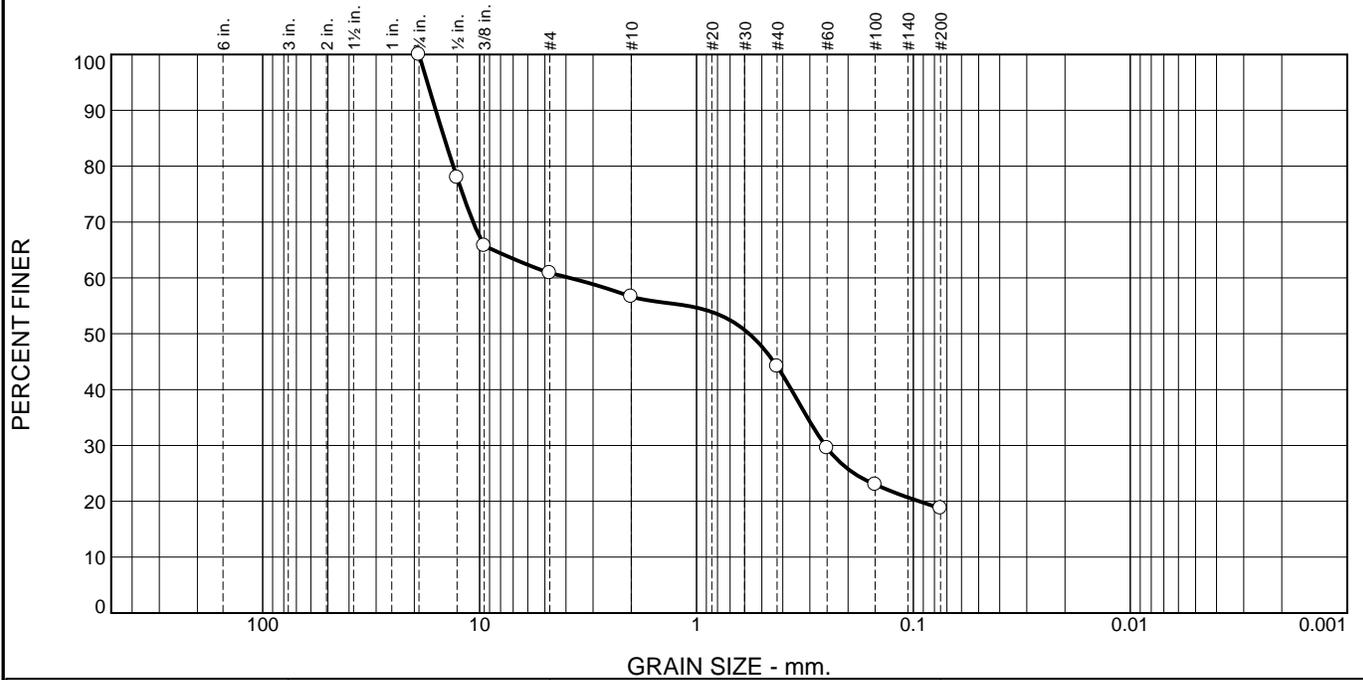
Datum _____ Hammer Wt. 140 lbs. Hole Diameter 6 in. Foreman M. Stawas
 Surf. Elev. 61.87 ft Hammer Drop 30 in. Rock Core Diameter NA Inspector _____
 Date Started 6/29/2018 Pipe Size (O.D.) 2.0 in. Boring Method HSA Date Completed 6/29/2018

| Elevation/ Depth (ft) | SOIL SYMBOLS/ SAMPLE CONDITIONS | Description | Boring and Sampling Notes | Sample No. | Rec. (in) | NM (%) | SPT Blows | SPT N (blows/ft) | | | | |
|--------------------------|--|--|---|---------------|--------------|-----------|-----------|------------------|----|----|----|--|
| | | | | | | | | N | 10 | 30 | 50 | |
| 0 | I | Gray-brown, moist loose, clayey SAND, some grave, trace organics (SC; FILL) | 5" topsoil | 1 | 18 | 9.1 | 3-3-2 | 5 | | | | |
| 60 | I | Dark gray and orange-brown to beige-brown, moist to very moist, stiff to very soft, lean CLAY, some asphalt, some sand, trace organics (CL; FILL) Sample 3: some timber or wood | | 2 | 18 | 12.1 | 3-6-3 | 9 | | | | |
| 5 | I | | 3 | 15 | | 1-1-1 | 2 | | | | | |
| 55 | I | Orange-brown, moist, medium dense, silty SAND, trace mica (SM) | | 4 | 18 | 15.2 | 5-6-5 | 11 | | | | |
| 10 | I | | 5 | 18 | | 4-4-5 | 9 | | | | | |
| 50 | I | Light gray with purple-gray, moist, stiff, sandy SILT, fine sand, some clay, trace mica (ML) | Groundwater encountered at 17 ft while drilling | 6 | 18 | | 6-8-9 | 17 | | | | |
| 15 | I | | | | | | | | | | | |
| 45 | I | Tan and orange-brown, very moist, medium dense, silty/clayey SAND (SM/SC) Boring terminated at 20 ft | Boring was backfilled after 72 hours | | | | | | | | | |
| 20 | I | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |

| | | | | |
|-------------------------------------|--------------------------|--------------------------------------|----------------------|--------------------------------|
| SAMPLER TYPE | SAMPLE CONDITIONS | GROUND WATER | CAVE IN DEPTH | BORING METHOD |
| DRIVEN SPLIT SPOON UNLESS OTHERWISE | D - DISINTEGRATED | AT COMPLETION <u>17.4</u> ft. | <u>18.2</u> ft. | HSA - HOLLOW STEM AUGERS |
| PT - PRESSED SHELBY TUBE | I - INTACT | AFTER 24 HRS. _____ ft. | _____ ft. | CFA - CONTINUOUS FLIGHT AUGERS |
| CA - CONTINUOUS FLIGHT AUGER | U - UNDISTURBED | AFTER <u>72</u> HRS. <u>12.5</u> ft. | <u>12.7</u> ft. | DC - DRIVING CASING |
| RC - ROCK CORE | L - LOST | | | MD - MUD DRILLING |

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1' WITH 140# HAMMER FALLING 30": COUNT MADE AT 6" INTERVALS.

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 39.1 | 4.3 | 12.4 | 25.5 | 18.7 | |

| Test Results (ASTM D 422 & ASTM D 1140) | | | |
|---|---------------|------------------|----------------|
| Opening Size | Percent Finer | Spec.* (Percent) | Pass? (X=Fail) |
| 3/4 | 100.0 | | |
| 1/2 | 78.0 | | |
| 3/8 | 65.8 | | |
| #4 | 60.9 | | |
| #10 | 56.6 | | |
| #40 | 44.2 | | |
| #60 | 29.6 | | |
| #100 | 23.0 | | |
| #200 | 18.7 | | |

* (no specification provided)

Material Description

Brown Silty Sand with Gravel

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 15.9308 D₈₅= 14.5342 D₆₀= 3.8355
D₅₀= 0.5721 D₃₀= 0.2550 D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: 07/16/18 Date Tested: 07/20/18

Tested By: Will Tripp

Checked By: John Singleton

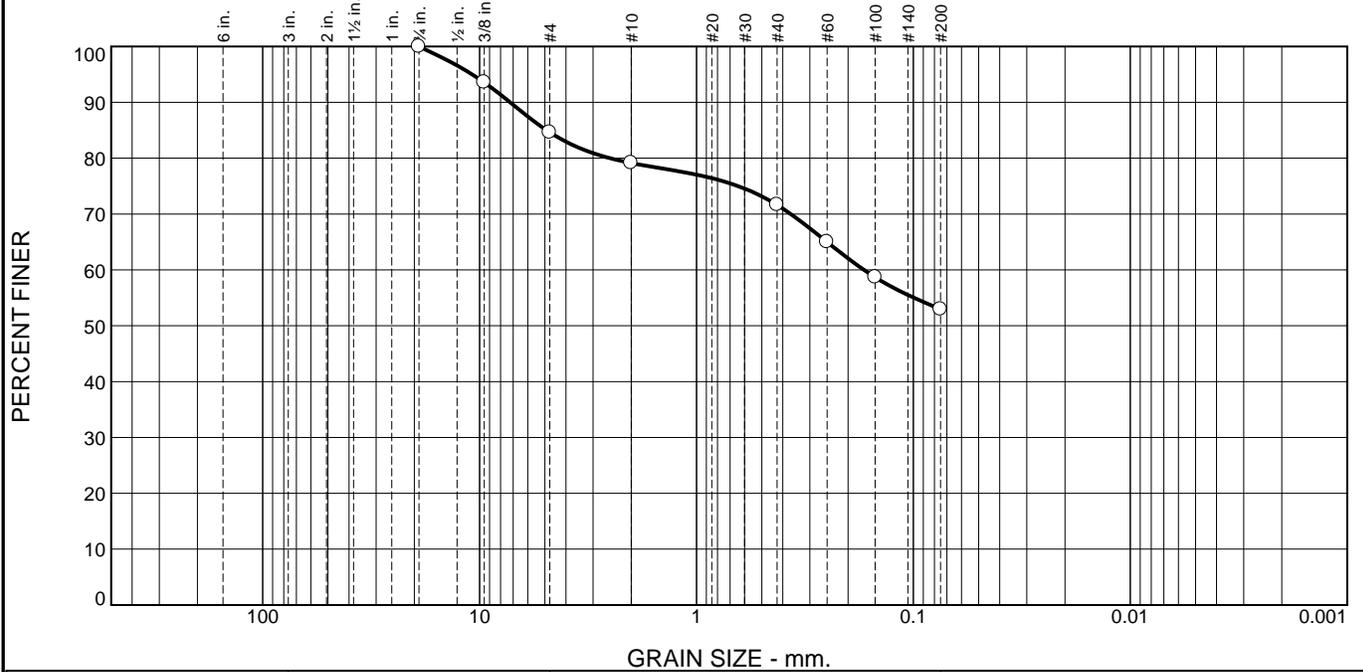
Title: LM

Location: B-1 Date Sampled: 07/02/18
Sample Number: 1 Depth: 0-1.5 feet

| | |
|--|--|
| HILLIS-CARNES ENGINEERING ASSOCIATES Belcamp, MD | Client: Love Fellowship Christian Project: Love Fellowship Christian Center Project No: E18051 |
|--|--|

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 15.4 | 5.5 | 7.5 | 18.6 | 53.0 | |

| Test Results (ASTM D 422 & ASTM D 1140) | | | |
|---|---------------|------------------|----------------|
| Opening Size | Percent Finer | Spec.* (Percent) | Pass? (X=Fail) |
| 3/4 | 100.0 | | |
| 3/8 | 93.6 | | |
| #4 | 84.6 | | |
| #10 | 79.1 | | |
| #40 | 71.6 | | |
| #60 | 65.0 | | |
| #100 | 58.7 | | |
| #200 | 53.0 | | |

* (no specification provided)

Material Description

Brownish Red Sandy Silt with Gravel

Atterberg Limits (ASTM D 4318)

PL= 26 LL= 31 PI= 5

Classification

USCS (D 2487)= ML AASHTO (M 145)= A-4(1)

Coefficients

D₉₀= 7.2304 D₈₅= 4.9110 D₆₀= 0.1690
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: _____ Date Tested: 07/20/18

Tested By: Will Tripp

Checked By: John Singleton

Title: LM

Location: B-7
Sample Number: 3 Depth: 5.0-6.5 Feet

Date Sampled:

HILLIS-CARNES ENGINEERING ASSOCIATES

Client: Love Fellowship Christian
Project: Love Fellowship Christian Center

Belcamp, MD

Project No: E18051

Figure

HILLIS-CARNES ENGINEERING ASSOCIATES, Inc.

10975 Guilford Road, Suite A • Annapolis Junction, Maryland 20701

Phone: (410)880-4788 • Fax: (410)880-4098

Description of Soils – per ASTM D2487

| Major Component | Component Type | Component Description | Symbol | Group Name |
|--|--|--|-----------|------------------------------|
| Coarse-Grained Soils, More than 50% is retained on the No. 200 sieve | Gravels – More than 50% of the coarse fraction is retained on the No. 4 sieve. Coarse = 1" to 3" Medium = ½" to 1" Fine = ¼" to ½" | Clean Gravels <5% Passing No. 200 sieve | GW | Well Graded Gravel |
| | | Gravels with fines, >12% Passing the No. 200 sieve | GP | Poorly Graded Gravel |
| | | | GM | Silty Gravel |
| | Sands – More than 50% of the coarse fraction passes the No. 4 sieve. Coarse = No.10 to No.4 Medium = No. 10 to No. 40 Fine = No. 40 to No. 200 | Clean Sands <5% Passing No. 200 sieve | SW | Well Graded Sand |
| | | Sands with fines, >12% Passing the No. 200 sieve | SP | Poorly Graded Sand |
| | | | SM | Silty Sand |
| Fine Grained Soils, More than 50% passes the No. 200 sieve | Silts and Clays Liquid Limit is less than 50 Low to medium plasticity | Inorganic | ML | Silt |
| | | | CL | Lean Clay |
| | Silts and Clays Liquid Limit of 50 or greater Medium to high plasticity | Organic | OL | Organic silt Organic Clay |
| | | | MH | Elastic Silt |
| | | | CH | Fat Clay |
| | | | OH | Organic Silt Organic Clay |
| Highly Organic Soils | Primarily Organic matter, dark color, organic odor | | PT | Peat |

Proportions of Soil Components

| Component Form | Description | Approximate percent by weight |
|----------------|--------------------------------|-------------------------------|
| Noun | Sand, Gravel, Silt, Clay, etc. | 50% or more |
| Adjective | Sandy, silty, clayey, etc. | 35% to 49% |
| Some | Some sand, some silt, etc. | 12% to 34% |
| Trace | Trace sand, trace mica, etc. | 1% to 11% |
| With | With sand, with mica, etc. | Presence only |

Particle Size Identification

| Particle Size | Particle dimension |
|-------------------|-----------------------|
| Boulder | 12" diameter or more |
| Cobble | 3" to 12" diameter |
| Gravel | ¼" to 3" diameter |
| Sand | 0.005" to ¼" diameter |
| Silt/Clay (fines) | Cannot see particle |

Cohesive Soils

| Field Description | No. of SPT Blows/ft | Consistency |
|---|---------------------|--------------|
| Easily Molded in Hands | Less than 2 | Very Soft |
| Easily penetrated several inches by thumb | 2 – 4 | Soft |
| Penetrated by thumb with moderate effort | 4 – 8 | Medium Stiff |
| Penetrated by thumb with great effort | 8 – 15 | Stiff |
| Indented by thumb only with moderate effort | 15 – 30 | Very Stiff |
| Indented by thumb only with great effort | Greater than 30 | Hard |

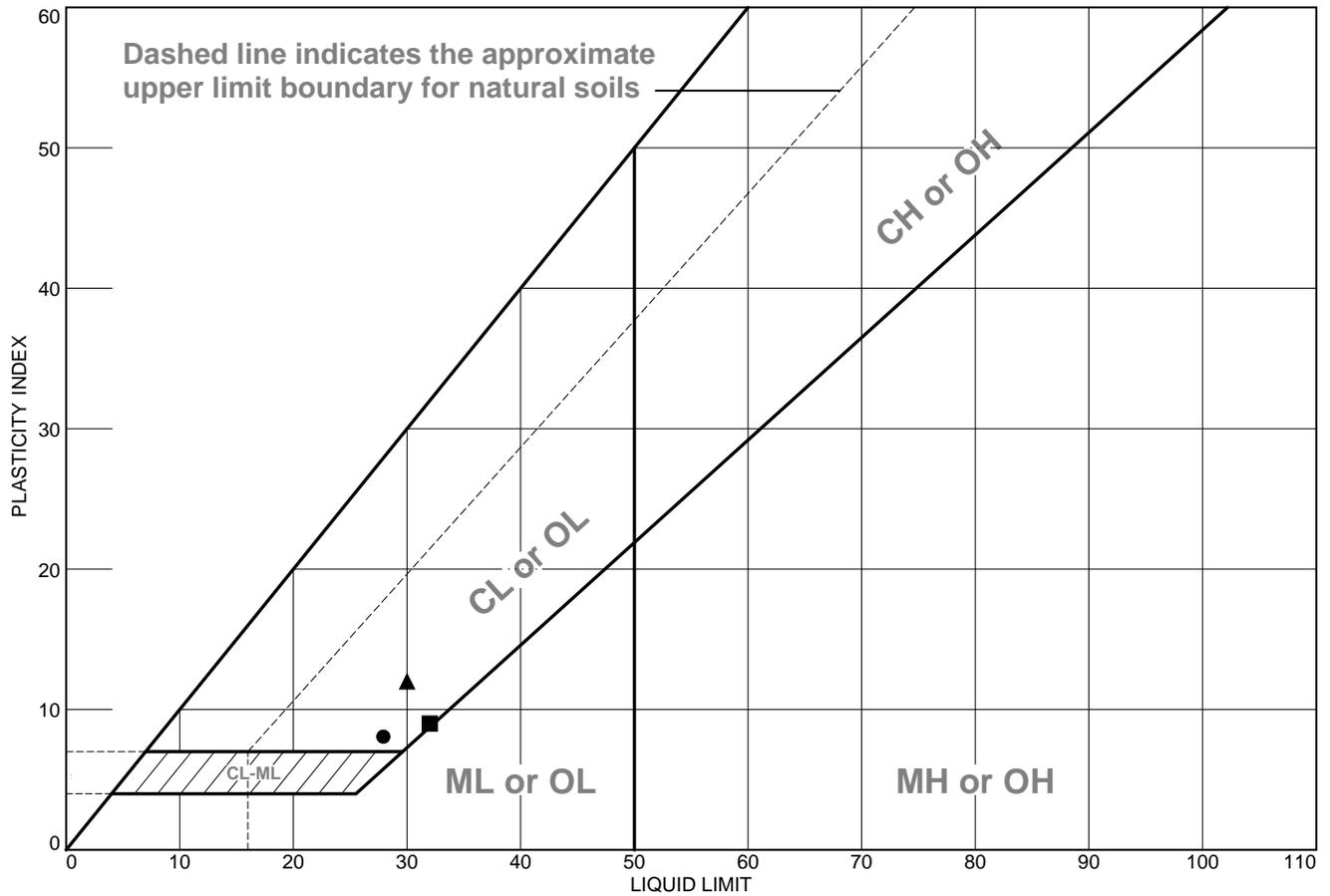
Granular Soils

| No. of SPT Blows/ft | Relative Density |
|---------------------|------------------|
| Less than 5 | Very Loose |
| 5 – 10 | Loose |
| 10 – 30 | Medium Dense |
| 30 – 50 | Dense |
| Greater than 50 | Very Dense |

Other Definitions:

- **Fill:** Encountered soils that were placed by man. Fill soils may be controlled (engineered structural fill) or uncontrolled fills that may contain rubble and/or debris.
- **Saprolite:** Soil material derived from the in-place chemical and physical weathering of the parent rock material. May contain relic structure. Also called residual soils. Occurs in Piedmont soils, found west of the fall line.
- **Disintegrated Rock:** Residual soil material with rock-like properties, very dense, N = 60 to 51/0".
- **Karst:** Descriptive term which denotes the potential for solutioning of the limestone rock and the development of sinkholes.
- **Alluvium:** Recently deposited soils placed by water action, typically stream or river floodplain soils.
- **Groundwater Level:** Depth within borehole where water is encountered either during drilling, or after a set period of time to allow groundwater conditions to reach equilibrium.
- **Caved Depth:** Depth at which borehole collapsed after removal of augers/casing. Indicative of loose soils and/or groundwater conditions.

LIQUID AND PLASTIC LIMITS TEST REPORT



| | Material Description | Sampled | Tested | Technician | LL | PL | PI | %<#40 | USCS |
|---|---|---------|--------|----------------|----|----|----|-------|------|
| ● | Brownish Yellow Sandy Lean Clay with Gravel | 4/25/18 | 5/1/18 | John Singleton | 28 | 20 | 8 | 77.3 | CL |
| ■ | Reddish Brown Sandy Lean Clay | 4/25/18 | 5/1/18 | John Singleton | 32 | 23 | 9 | 81.4 | CL |
| ▲ | Brown Red Lean Clay | 4/25/18 | 5/1/18 | John Singleton | 30 | 18 | 12 | 99.5 | CL |
| | | | | | | | | | |
| | | | | | | | | | |

Project No. E18037 **Client:** Love Fellowship Christian Church
Project: Love Fellowship Christian Church

○ **Location:** Test Pit 2 **Depth:** 1-5.5 Feet **Sample Number:** 3
 □ **Location:** Test Pit 5 **Depth:** 4-7.5 feet **Sample Number:** 1
 ▲ **Location:** Test Pit 7 **Depth:** 8-10 feet **Sample Number:** 2

HILLIS-CARNES ENGINEERING ASSOCIATES
Belcamp, MD

Checked by: CS
Title: PE
Figure

Tested By: John Singleton **Checked By:** CS