

The Department of Community Development
City Hall, Lynchburg, VA 24504 434-455-3900

To: Planning Commission
From: Planning Division
Date: January 9, 2013
Re: **Conditional Use Permit (CUP) – Lynchburg Church of God – 512 Breezewood Drive**

I. PETITIONER

Lynchburg Church of God Trustees, P.O. Box 4159, Lynchburg, VA 24502

Representative: Mr. Tommy Brooks, Sr., Acres of Virginia, Inc., 404 Clay Street, Lynchburg, VA 24502

II. LOCATION

The subject property is a tract of approximately four and two hundred fifty-two thousandths (4.252) acres located at 512 Breezewood Drive.

Property Owner: Lynchburg Church of God Trustees, P.O. Box 4159, Lynchburg, VA 24502

III. PURPOSE

The purpose of the petition is to allow the construction of a two thousand four hundred (2,400) square foot classroom addition and five (5) additional parking spaces.

IV. SUMMARY

- The *Comprehensive Plan 2002-2020's Future Land Use Map (FLUM)* recommends Institutional and Resource Conservation uses for the subject property.
- Churches are permitted in R-3, Medium Density, Two-Family Residential Districts upon approval of a CUP by Council.
- The property has been used as a church since 1983.

The Planning Division recommends approval of the CUP petition.

V. FINDINGS OF FACT

1. **Comprehensive Plan.** The *Comprehensive Plan 2002-2020* recommends an Institutional and Conservation use for the subject property. Institutional uses include religious, educational and other nonprofit entities in the City. Examples include churches, cemeteries, private schools and universities, private nonprofit hospitals, service clubs and organizations and other nonprofit institutions. (pg. 5.3) Resource Conservation areas encompass lands with special natural characteristics that make their preservation in open space particularly important to the City's environmental health. (pg. 5.2) The majority of the land designated for Resource Conservation has already been developed by the church as a parking area. The area proposed for the building and parking additions is designated for Institutional uses.
2. **Zoning.** The subject property was annexed into the City in 1976. The existing R-3, Medium Density, Two-Family Residential District was established in 1978.
3. **Board of Zoning Appeals (BZA).** The Zoning Official has determined that no variances are needed for the development of the property as proposed.

4. **Surrounding Area.** There have been several items requiring City Council approval in the immediate area:
- On February 12, 1980, Council approved the CUP petition of the Church of God to operate a church at 512 Breezewood Drive.
 - On September 8, 1992, Council approved the CUP petition of New Covenant Schools to operate a school for K-8th grade at 512 Breezewood Drive.
 - On October 13, 1992, Council approved the Graves Mill Road/US 221 Area Land Use Study.
 - On October 11, 1994, Council approved the rezoning petition of Blue Ridge Development Corporation, Inc., to rezone 126 Breezewood Drive from R-3, Medium Density, Two-Family Residential District to B-1, Limited Business District (Conditional).
 - On February 9, 1999, Council approved the CUP petition of Richlyn, LLC., for a Planned Unit Development (PUD) at the southern end of Breezewood Drive.
 - On April 25, 2000, Council approved the rezoning petition of Uel Hartless to rezone 310-324 Breezewood Drive from R-3, Medium Density, Two-Family Residential District to R-4, Medium-High Density Residential District (Conditional).
 - On October 3, 2006, Council approved the rezoning petition of EE, LLC to rezone 129, 305, 317, 415, 509 and 607 McConville Road from R-C, Resource Conservation District, R-3, Medium Density, Two-Family Residential District and R-4, Medium-High Density, Multi-Family Residential District to B-5, General Business District (Conditional).
 - On August 14, 2007, Council approved the rezoning petition of EE, LLC, to rezone 512, 522, 526, 530, 534, 538, 610, 630, 1002 McConville Road, 110 Miles Place and 120 Millstone Road from R-C, Resource Conservation District, R-1, Low Density, Single-Family Residential District, R-3, Medium Density, Two-Family Residential District, I-1, Restricted Industrial District and I-2, Light Industrial District to B-5, General Business District (Conditional).
 - On December 14, 2010, Council approved the CUP petition of Heritage Baptist Church for a comprehensive sign plan at 219 Breezewood Drive. (There have been several CUPs approved for Heritage Baptist Church facilities since 1985.)
 - On October 9, Council approved the rezoning petition of Mark Hartless to rezone 428 and a portion of 512 Breezewood Drive from R-3, Medium Density, Two-Family Residential to R-4, Medium-High Density, Multi-Family Residential (Conditional) to allow the construction of a six (6- building, fifty (50)-unit apartment development.
5. **Site Description.** The subject property is a tract of approximately four and two hundred fifty-two thousandths (4.252) acres located at 512 Breezewood Drive. The property is relatively flat and is bound to the east by the Lynchburg Expressway, to the west by Breezewood Drive, to the north by property proposed for apartments and to the south by a parking lot. The property contains a five thousand four hundred (5,400) square foot building used as a church since 1983 and associated parking areas.

6. **Proposed Use of Property.** The purpose of the petition is to allow the construction of a two thousand four hundred (2,400) square foot classroom addition and five (5) additional parking spaces.
7. **Traffic, Parking and Public Transit.** The City’s Transportation Engineer had no comments of concern regarding the proposed addition. The proposal will not increase the number of seats in the sanctuary; thus no new parking spaces are required.
8. **Stormwater Management.** Stormwater Management is proposed to be addressed by the use of an infiltration pit. A stormwater management plan addressing the quantity and quality of stormwater will be required prior to any final site plan approval and building permits being issued.
9. **Emergency Services:** The City Fire Marshal and Police Department had no comments of concern regarding the proposal.
10. **Impact.** The property has been used as a church since the early 1980’s. The proposed classroom addition and five (5) parking spaces will not generate a significant impact on the area.
11. **Technical Review Committee.** The Technical Review Committee (TRC) reviewed the conditional use permit on December 18, 2012. Comments related to the proposed use have or will be addressed prior to final site plan approval.

VI. PLANNING DIVISION RECOMMENDATION

Based on the preceding Findings of Fact, the Planning Commission recommends to City Council approval of the petition of the Church of God Trustees to allow building and parking additions at 512 Breezewood Drive subject to the following conditions:

1. **The property shall be developed in substantial compliance with the site plan.**
2. **All lighting shall be glared shielded and non-directional to prevent illumination beyond the property line.**
3. **The building shall be constructed in accordance with renderings submitted with the proposal.**

This matter is respectfully offered for your consideration.



William T. Martin, AICP
City Planner

- pc: Mr. L. Kimball Payne, III, City Manager
 Ms. Bonnie M. Svrcek, Deputy City Manager
 Mr. Walter C. Erwin, City Attorney
 Mr. Kent L. White, Director of Community Development
 Mr. J. Lee Newland, City Engineer
 Ms. Cynthia Kozerow, Lynchburg Police Department

Captain Thomas Mack, Acting Fire Marshal
Mr. Doug Saunders, Building Commissioner
Mr. Robert Fowler, Zoning Administrator
Mr. Jacob Dorman, Environmental Reviewer
Mr. Tommy Brooks, Sr., Acres of Virginia, Inc.

VII. ATTACHMENTS

- 1. Zoning Map**
- 2. Future Land Use Map**
- 3. Watershed Map**
- 4. Planimetric and Topographic Map**
- 5. Narrative**
- 6. Site Plan**
- 7. Building Elevations**
- 8. Property Photograph**

MINUTES FROM THE JANUARY 9, 2013 PLANNING COMMISSION MEETING (MINUTES HAVE BEEN APPROVED):

a. Petition of the Lynchburg Church of God Trustees at 512 Breezewood Drive for a Conditional Use Permit to allow the construction of a building and parking addition in an R-3, Medium Density, Two-Family Residential District.

Mr. Martin explained that this property is designated for Institutional and Resource Conservation uses. The proposed building and parking additions fall within the Institutional designation. The petition is for the construction of a 2,400 square foot addition at the rear of the church facing the Lynchburg expressway. Police, fire and traffic staff had no comments of concern. Stormwater management would be addressed through the use of an infiltration pit. A stormwater management plan addressing both quantity and quantity will be required before site plan approval or issuing of building permits.

The property has been used as a church since the early 1980's. The addition will be used for classrooms and will not result in any additional sanctuary seating. The proposed building and parking additions should not generate any significant impact on the surrounding area and the Planning Division recommends approval of the petition.

Mr. Thomas Brooks of Acres of Virginia, Inc., was present to represent the petition. The church is requesting the conditional use permit for the property at 512 Breezewood Drive, which contains 4.626 acres. Mr. Brooks explained that the sanctuary building was built in 1982 and the classrooms were placed next to the sanctuary. Due to very thin walls between the areas that do not provide a good sound barrier, it is not possible for the church to conduct services and classes at the same time.

Mr. Brooks noted that the new addition will contain classrooms, administrative uses and will serve as the new main entrance to the church. Five new parking spaces will be added and the walkways will be handicap accessible. Mr. Brooks further noted that the existing gravel parking lot will be surface treated and striped to meet City standards.

Chair Sale asked if there was anyone else present to speak in favor of the petition. No one came forward. He asked for anyone who wished to speak in opposition to the petition. No one came forward. He closed the public hearing portion of the petition.

Commissioner Barnes asked if there was any thought being given to placing additional signage identifying the church which would face the expressway. Mr. Brooks stated that the church has not talked about any additional signage and Mr. Brooks was not sure if any new signage would really be readable from the expressway due to the speed of cars traveling on the road.

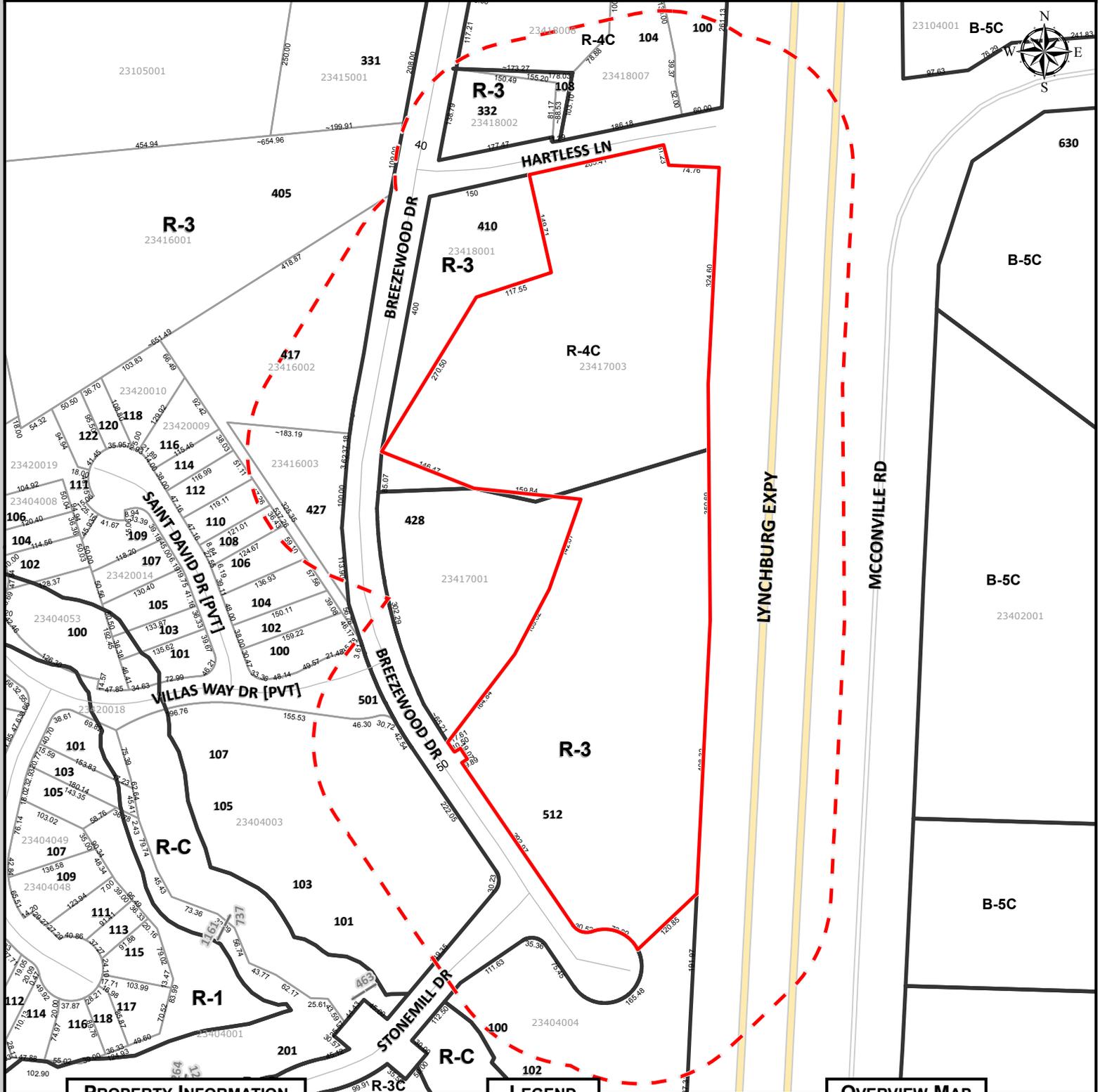
Commissioner Hannon made the following motion, which was seconded by Commissioner Barnes:

“That the Planning Commission recommends to City Council approval of the petition of the Church of God Trustees to allow building and parking additions at 512 Breezewood Drive subject to the following conditions:

- 1. The property shall be developed in substantial compliance with the site plan.**
- 2. All lighting shall be glared shielded and non-directional to prevent illumination beyond the property line.**
- 3. The building shall be constructed in accordance with renderings submitted with the proposal.”**

The motion passed by the following vote:

AYES:	Barnes, Hannon, Hooper, Kennedy, Sale and Swienton	6
NOES:		0
ABSTENTIONS:		0
ABSENT:	Coleman	1



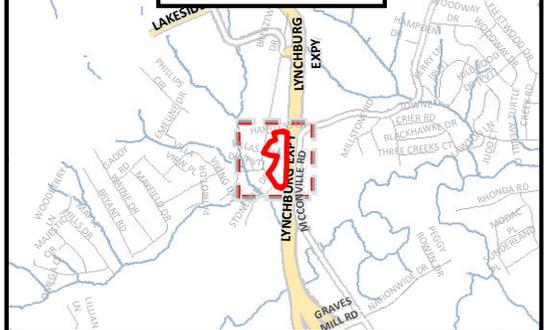
PROPERTY INFORMATION

PARCEL ID	ADDRESS
23417003	512 BREEZEWOOD DR

LEGEND

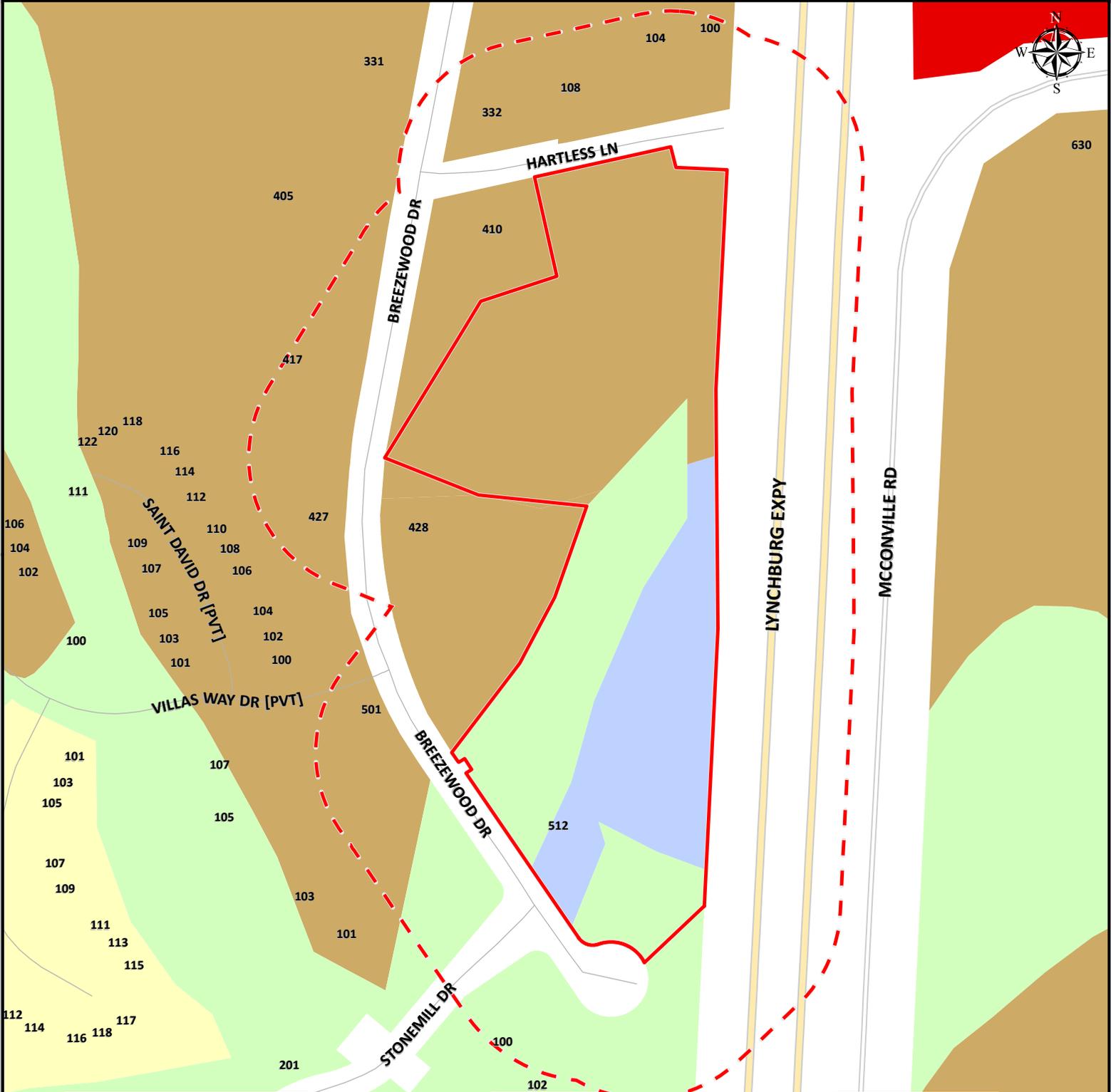
- Subject Property
- 200' Buffer
- Zoning Boundary

OVERVIEW MAP



MAP SCALE: 1" to 200' DATE PRINTED: 12/31/2012

PIN	Local Address	Owner
23418002	332 BREEZEWOOD DRIVE	WANDA T MURPHY
23418011	108 HARTLESS LANE	UEL C & HAZEL M HARTLESS
23418007	104 HARTLESS LANE	MARK C & JOYCE H HARTLESS
23418008	324 BREEZEWOOD DRIVE	MARK C & JOYCE H HARTLESS
23418006	100 HARTLESS LANE	UEL C & HAZEL M HARTLESS
23418001	410 BREEZEWOOD DRIVE	LESTER P & SADIE M HARRIS
23420003	104 SAINT DAVID DRIVE	SANDRA M GARDNER
23420006	110 SAINT DAVID DRIVE	RONALD E & JOAN H CAREY
23420007	112 SAINT DAVID DRIVE	FRANK D & EARLENE R GOODWIN
23416002	417 BREEZEWOOD DRIVE	R F & ALMA M FISHER
23417001	428 BREEZEWOOD DRIVE	LYNCHBURG CHURCH OF GOD TRUSTEES
23416003	427 BREEZEWOOD DRIVE	VICTOR SR ESTATE & VERDIE L WALDRON
23417003	512 BREEZEWOOD DRIVE	CHURCH OF GOD TRUSTEES
23416001	405 BREEZEWOOD DRIVE	DORIS F ANDRUS
23404004	100 STONEMILL DRIVE	OVERLOOK APARTMENTS LC
23404003	101 STONEMILL DRIVE A	OVERLOOK APARTMENTS LC
23420001	100 SAINT DAVID DRIVE	COURTNEY B FORSLUND
23420004	106 SAINT DAVID DRIVE	CLARA M & TERRY E MCKELLIPS
23420005	108 SAINT DAVID DRIVE	DANIEL P COLLERAN
23420018	501 BREEZEWOOD DRIVE	VILLAS AT STONEMILL ASSOCIATION



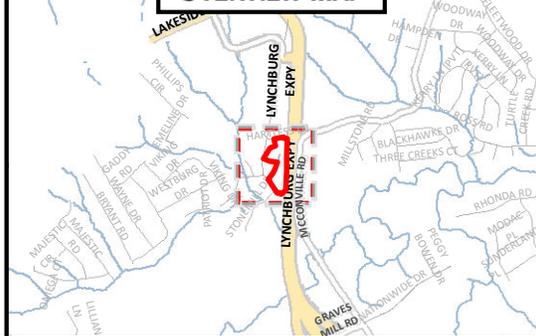
PROPERTY INFORMATION

PARCEL ID	ADDRESS
23417003	512 BREEZEWOOD DR

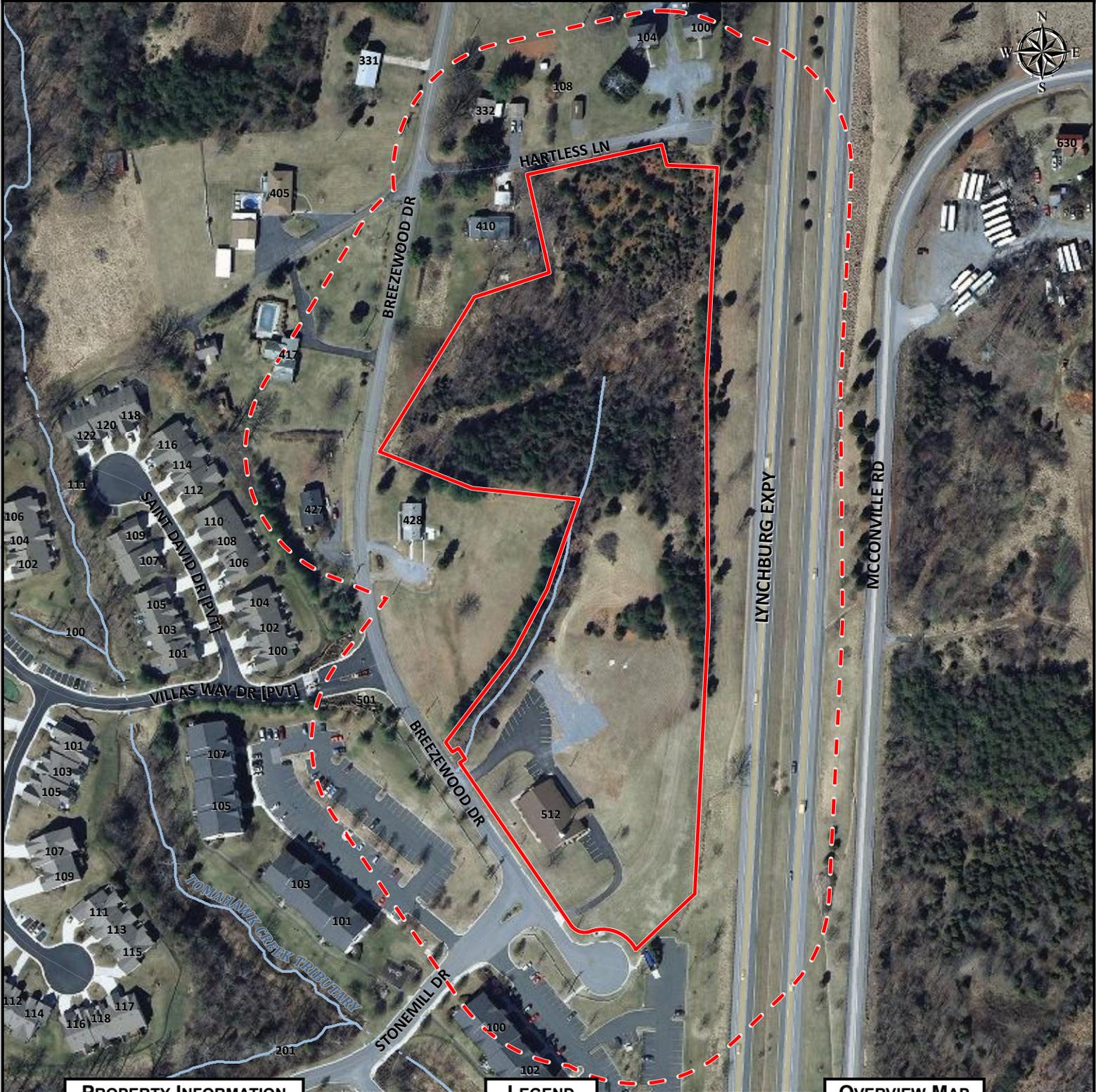
LEGEND

- Local Historic District
- Traditional Residential
- Low Density Residential
- Medium Density Residential
- High Density Residential
- Neighborhood Commercial
- Community Commercial
- Regional Commercial
- Employment 1
- Employment 2
- Office
- Institution
- Downtown
- Public Use
- Public Parks
- Resource Conservation

OVERVIEW MAP



MAP SCALE: 1" to 200' DATE PRINTED: 12/31/2012



PROPERTY INFORMATION

PARCEL ID	ADDRESS
23417003	512 BREEZEWOOD DR

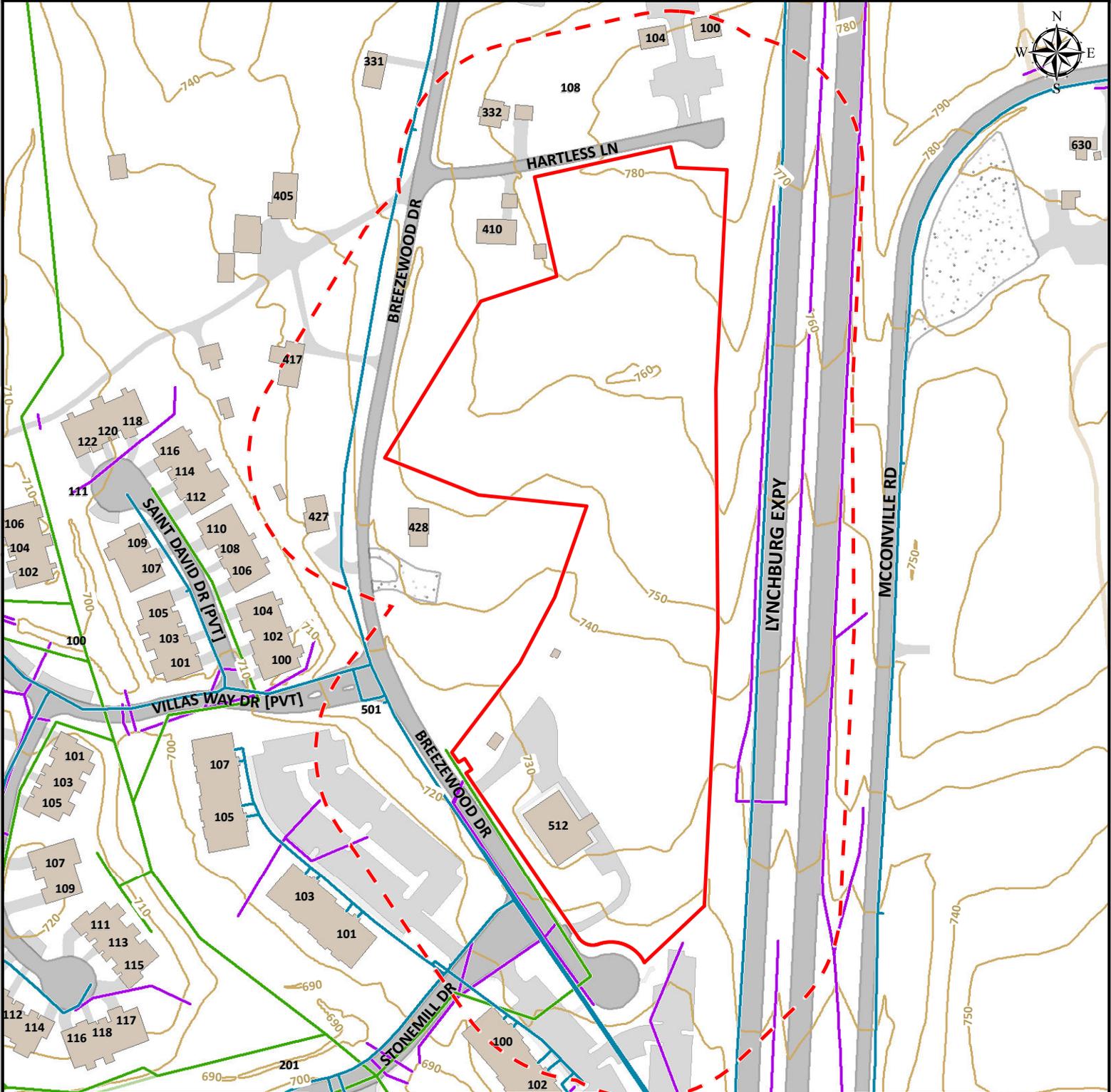
LEGEND

- Subject Property**
- Base Flood Elevation**
- Floodway**
- Floodzone**
- River / Lake / Stream**

OVERVIEW MAP



MAP SCALE: 1" to 200' DATE PRINTED: 12/31/2012



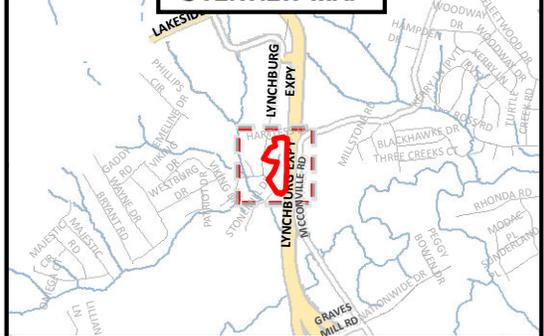
PROPERTY INFORMATION

PARCEL ID	ADDRESS
23417003	512 BREEZEWOOD DR

LEGEND

	Active	Proposed	Abandoned	
Utilities	Water (solid blue)	Sanitary (dotted green)	Storm (dotted purple)	
Planimetrics	Structure (solid grey)	Roadway (solid tan)	Parking (dotted tan)	
	Sidewalk (dotted grey)	Driveway (dotted tan)	Other (solid tan)	
	Topography	Contour (solid brown)	10' Obs (dotted brown)	

OVERVIEW MAP



MAP SCALE: 1" to 200' DATE PRINTED: 12/31/2012

DISCLAIMER: THIS MAP IS NEITHER A LEGALLY RECORDED MAP NOR A SURVEY AND IS NOT INTENDED TO BE USED AS SUCH. THE INFORMATION DISPLAYED IS A COMPILATION OF RECORDS, INFORMATION, AND DATA OBTAINED FROM VARIOUS SOURCES. THE CITY OF LYNCHBURG IS NOT RESPONSIBLE FOR ITS ACCURACY OR HOW CURRENT IT MAY BE.

Narrative of the Church Of God

The Church Of God is one of the most influential worldwide Pentecostal movements in the world today. This organization was established in 1886 in Tennessee and North Carolina and has grown throughout the United States and Internationally. The Church Of God has a membership of seven (7) million persons.

The Lynchburg Church Of God was chartered in early in the 1940's and was established in a small Church building on Cabell and D Street in the City Of Lynchburg. In 1956 the Lynchburg Church of God had outgrown the small building on Cabell Street and built a new Church Facility on Blue Ridge Street in the City. They moved to this new building in 1958.

In 1981 the Lynchburg Church Of God had an offer to sell their building on Blue Ridge Street to another Church organization. The Trustees decided they would sell the building and build a new Church that would accommodate their congregation's needs. At that time the Church owned several Acres of land on what was then called McConville Road, which is now known as Breezwood Drive.

When the Church was built in 1982 the Classroom's was built immediately adjacent to the main Sanctuary. Due to the noise factor it is difficult to hold any classes at the same time the Worship Service is being conducted in the Sanctuary. The adjoining class rooms are rendered useless when services are conducted simultaneously. A need for new space is necessary.

The purpose of the new 2400 square frame addition will be to establish a new facade, a new look for the aging Church building as well as establish class rooms facilities that can be used to accommodate, (i) the teen church, (ii) the children's church, (iii) additional restroom facilities that meet ADA standards, (iv) administrative office space for church officers (v) a new Church Entrance and (vi) nursery facilities.

The existing building has a seating capacity in the Sanctuary of 150 persons. The existing building is frame construction built on a concrete slab with brick veneer and a shingle roof.

The new Church addition will be a frame building built on a concrete slab. The exterior facade of the building will be white vinyl against the brick veneer of the existing Church. The roof material will be metal. The existing Church roof will also be metal in place of the traditional asphalt shingles. The new entrance to the Church will be from the new 2400 square foot addition and will be entered from the North. The new entrance adjoins an existing gravel parking lot which will be surface treated with striped parking spaces. All entrances into the new facility are designed to accommodate the Church Senior Citizens and all ADA regulations and meet the immediate needs for the Church.

NOTES:

1. THIS PLAN WAS PREPARED AT THE REQUEST OF LYNCHBURG CHURCH OF GOD
2. NO DETERMINATION OF WETLANDS WAS MADE NOR DOES THIS PLAN ADDRESS THE EXISTENCE OR DELINEATION OF ANY ENVIRONMENTALLY SENSITIVE AREAS IN OR AROUND THE BOUNDARIES OF THIS PROPERTY
3. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT SURVEYED OR EXAMINED OR CONSIDERED AS PART OF THIS PLAN. NO EVIDENCE OR STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONNECTIONS, CONTAMINATORS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.
4. NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT THEREFORE NECESSARILY INDICATE ALL ENCUMBRANCES OR IMPROVEMENTS ON THIS PROPERTY. ALL ADJOINING OWNERS ARE NOW OR FORMERLY
5. THIS PROPERTY AS PLATTED FALLS WITHIN THE FLOOD ZONE "C" AS DETERMINED BY F.E.M.A. AND SHOWN ON THEIR MAP DATED SEPTEMBER 1, 1978 PANEL NO. 510093 00108. NO CERTIFICATION BY THIS SURVEYOR IS MADE TO THE ACCURACY OF THE F.E.M.A. MAP.
6. IN PROVIDING THIS PLAN NO ATTEMPT HAS BEEN MADE TO OBTAIN OR SHOW DATA CONCERNING EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY OR LOCATION OF ANY UTILITY EXISTING ON THE SITE, WHETHER PRIVATE, MUNICIPAL OR PUBLIC OWNED.
7. ANY SUBAQUEOUS BEDS LOCATED WITHIN THE BOUNDARIES OF THIS PROPERTY MAY BE THE PROPERTY OF THE COMMONWEALTH OF VIRGINIA. NO ATTEMPT TO DETERMINE TO OWNERSHIP WAS MADE BY ACRES OF VIRGINIA, INC. THE AREA SHOWN ON THIS PLAN IS PLUS OR MINUS AND IS INCLUSIVE OF ANY SUBAQUEOUS BEDS UNLESS OTHERWISE NOTED.
8. IT IS UNLAWFUL TO DISTURB ANY GRAVE OR GRAVE MARKER. ACCORDINGLY, ANY GRAVE OR ANY OBJECT OR STRUCTURE MARKING A PLACE OF BURIAL IDENTIFIED DURING THE SURVEY, PROPERTY RESEARCH OR PLAN PREPARATION OR AS DENOTED ON THIS PLAN, ACRES OF VIRGINIA, INC. EXPRESSLY DISCLAIMS ANY FINANCIAL RESPONSIBILITY FOR THE DESTRUCTION, REMOVAL OR DISTURBANCE OF ANY GRAVES OR GRAVEMARKERS THAT MAY NOT HAVE BEEN DETECTED OR SHOWN ON THIS PLAN. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER OR OWNERS AGENT PRIOR TO DISTURBING THIS AREA
9. PRIOR TO THE IMPROVEMENT OF ANY PROPERTY IN THE CITY OF LYNCHBURG, THE PLANNING DEPARTMENT SHALL BE CONTACTED CONCERNING, BUT NOT LIMITED TO, THE CURRENT ZONING, BUILDING SETBACK REQUIREMENTS, WATER OR SEWER SYSTEMS, HEALTH DEPARTMENT REQUIREMENTS, EROSION AND SEDIMENT CONTROL REQUIREMENTS, AND PRIVATE STREETS.
10. EXTERIOR LIGHTING WILL BE DIRECTIONAL AND GLARE SHIELDED.
11. THE NEW CLASSROOM ADDITION WILL BE SERVED BY UNDERGROUND UTILITIES.
12. PRIOR TO CONSTRUCTION THE OWNER SHALL SUBMIT TO THE CITY OF LYNCHBURG PLANS FOR APPROVAL AND SHALL OBTAIN ALL PERMITS FROM ALL GOVERNING BODIES.
13. 45 - EXISTING 9' X 18' PARKING SPACES
5 - ADDITIONAL 9' X 18' PARKING SPACES TO BE ADDED
2 - EXISTING 13' X 18' ADA HANDICAP SPACES
52 - TOTAL SPACES
14. LANDSCAPING SHOWN WILL BE IN ACCORDANCE WITH THE CITY OF LYNCHBURG ZONING ORDINANCE. SEE LANDSCAPE PLAN.
15. CONSTRUCTION STAKEOUT WILL BE PROVIDED BY ACRES OF VIRGINIA, INC.
16. THE CHURCH SANCTUARY SEATING CAPACITY IS 150 PERSONS.
17. THE NEW CLASSROOM ADDITION WILL CONNECT TO THE EXISTING WATER LINE FROM THE EXISTING CHURCH BUILDING.
18. NO NEW SERVICE CONNECTION WILL BE MADE. THE NEW BATHROOMS IN THE CLASSROOM ADDITION WILL CONNECT TO THE 4" PVC LINE THAT SERVES THE EXISTING CHURCH BUILDING.
19. THE TOTAL NEW IMPERVIOUS AREA INCLUDING THE NEW INFRASTRUCTURE IS 0.69 ACRES.

GENERAL CONSTRUCTION NOTES:

SITE WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF LYNCHBURG'S CONSTRUCTION DEPARTMENT AND ACRES OF VIRGINIA, INC. AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK ON THIS PROJECT. THE OWNER SHALL OBTAIN ALL REQUIRED PERMITS, FROM ALL GOVERNING BODIES PRIOR TO CONSTRUCTION. ACRES OF VIRGINIA, INC. ACCEPTS NO RESPONSIBILITY FOR THE PERMITS

THE LOCATION OF EXISTING UTILITIES ACROSS OR ALONG THE LINE OF PROPOSED WORK IS NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL ON HIS OWN LOCATE ANY UNDERGROUND LINES AND STRUCTURES AS NECESSARY

CONTRACTOR SHALL CALL "MISS UTILITY" AT (811) (48) HOURS PRIOR TO CONSTRUCTION

POWER LINES AND POLES, TELEPHONE LINES AND POLES SHALL BE PROTECTED FROM ANY DAMAGE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY OWNERS, OBTAINING THE PROPER PROTECTIVE MEASURES FOR EACH INDIVIDUAL CONSTRUCTION LOCATION AND PROTECTING UTILITIES FROM DAMAGE.

THE CONTRACTOR SHALL NOTIFY ACRES OF VIRGINIA, INC. FOR A REVIEW SHOULD DISCREPANCIES BE DISCOVERED.

EARTHWORK

THE CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS OF THE VIRGINIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY AS ADOPTED BY THE SAFETY AND HEALTH CODES COMMISSION OF VIRGINIA.

EARTHWORK SHALL BE THE LINES AND GRACES SHOWN. PROOF-ROLLING AND COMPACTION TEST SHALL BE ACCOMPLISHED IN THE FIELD TO TEST ALL FILL AREAS.

THE GRADING CONTRACTOR SHALL PROOF-ROLL THE CONSTRUCTION AREA WITH PNEUMATIC EQUIPMENT. ALL UNSUITABLE MATERIAL SHALL BE UNDERCUT AND REPLACED WITH COMPACTED APPROVED STRUCTURAL MATERIAL

ANY SURPLUS EXCAVATED MATERIAL SHALL BE STOCKPILED ON THE SITE BY THE GRADING CONTRACTOR AND SHALL BE RELOCATED AT AN APPROVED, LICENSED SITE

COMPACT TO 98% OF MAXIMUM STANDARD PROCTOR DENSITY WITH THE UPPER 9" @ 100% STANDARD PROCTOR DENSITY. MAINTAIN SOIL MOISTURE CONTENT BETWEEN 0 AND 3% ABOVE OPTIMUM. USE THE GEOTECHNICAL ENGINEER METHOD FOR MAINTAINING OPTIMUM MOISTURE CONTROL. COMPACTION TESTS ARE MANDATORY FOR THIS PROJECT. ALL GEO-TECH WORK CAN BE DONE BY ACRES OF VIRGINIA, INC. UPON REQUEST.

PAVING INSTRUCTIONS FOR EXISTING GRAVEL PARKING LOT AND PROPOSED ADDITIONAL SPACES

SURFACE - SURFACE TREATMENT (TAR AND GRAVEL)
BASE - 6" 21A
UNTREATED AGGREGATE COMPACTED IN 3" LIFTS

PLAN ACQUISITION

IT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER TO ENSURE THAT THE CONTRACTOR IS WORKING FROM THE MOST CURRENT SET OF APPROVED PLANS.

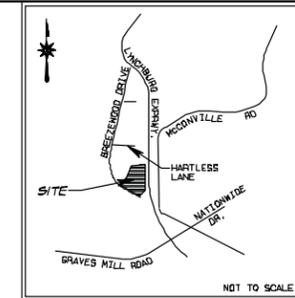
MATERIAL NOTES

ALL CONSTRUCTION AND MATERIAL SHALL CONFORM TO THE CITY OF LYNCHBURG'S SPECIFICATIONS AND STANDARDS, LATEST EDITION.

PROPOSED CLASSROOM ADDITION FOR:

Lynchburg Church Of God

LYNCHBURG, VIRGINIA



REVISION	DATE
1	12/18/12
2	
3	
4	
5	

VICINITY MAP

CONTACT NUMBERS:

1. SEWER:
THE CITY OF LYNCHBURG, VA
WATER RESOURCE DEPARTMENT
525 TAYLOR STREET
LYNCHBURG, VA. 24501
PHONE: (434) 455-4250
2. WATER:
THE CITY OF LYNCHBURG, VA.
WATER RESOURCE DEPARTMENT
525 TAYLOR STREET
LYNCHBURG, VA. 24501
PHONE: (434) 455-4250
3. GAS:
COLUMBIA GAS SERVICES
1600 DUBLIN ROAD
COLUMBUS, OH 43215
PHONE: 1-(800)-440-611 EXT. 3220
4. ELECTRIC:
AMERICAN ELECTRIC POWER
4001 MAYFLOWER DRIVE
LYNCHBURG, VA. 24501-5094
(434) 522-4329
5. TELEPHONE:
VERIZON - VIRGINIA, INC.
ENGINEERING DEPARTMENT
553 LEESVILLE ROAD
LYNCHBURG, VA. 24502
PHONE: (434) 239-9517
6. CITY INSPECTIONS:
900 CHURCH STREET
LYNCHBURG, VA. 24504
PHONE: (434) 455-3910
7. OWNER:
LYNCHBURG CHURCH OF GOD
512 BREEZEWOOD DRIVE
LYNCHBURG, VA 24502
(434) 528-4731
8. SITE AND BUILDING CONTRACTOR:
DESIGN & BUILD LLC
357 S. MAIN ST
SUITE B
AMHERST, VA 24521
(434) 610-4457
9. ENGINEER/SURVEYOR:
ACRES OF VIRGINIA, INC.
404 CLAY STREET
LYNCHBURG, VA 24504
(434) 528-4674

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2. SITE, LANDSCAPE & UTILITY PLAN
3. LANDSCAPE SPECIFICATIONS
4. GRADING, EROSION & SEDIMENTATION CONTROL & STORMWATER MANAGEMENT PLAN
5. EROSION SEDIMENTATION CONTROL & STORMWATER MANAGEMENT DETAIL SHEET
6. STORMWATER MANAGEMENT CALCULATIONS & DRAINAGE MAPS
7. SPECIFICATIONS
8. SPECIFICATIONS

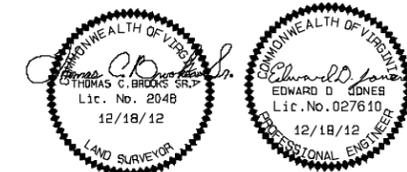
SOURCE OF TITLE:

THIS IS PART OF THE PROPERTY THAT WAS CONVEYED TO LYNCHBURG CHURCH OF GOD TRUSTEES BY DEED RECORDED IN DEED BOOK 592 PAGE 84 RECORDED IN THE CLERK'S OFFICE OF THE CIRCUIT COURT OF LYNCHBURG, VIRGINIA.

SITE PLAN APPROVAL

CITY ENG: _____ /DATE _____
TRC: _____ /DATE _____
E & S: _____ /DATE _____

NOTE:
ANY EXCESS SOIL WILL BE TRANSPORTED TO THE LIVING WATER BAPTIST CHURCH IN AMHERST AND IS COVERED BY AN EXISTING E & S PERMIT.



THIS SHEET IS PART OF A SET

ACRES OF VIRGINIA, INC.
ENGINEERS/SURVEYORS/PLANNERS
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LYNCHBURG OFFICE:
404 CLAY STREET
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COMM. NO.: 18753
DATE: NOVEMBER 19, 2012
SEAL NO.: 52855372
PLAN SCALE:
TAX MAP NO.: 23417003
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COVER SHEET
FOR PROPOSED NEW
CLASSROOM ADDITION

PROPERTY OF
Lynchburg Church Of God
LYNCHBURG, VIRGINIA

DRAWING
COVER SHEET
SHEET 1

LANDSCAPE LEGEND AND REQUIREMENTS PER CITY ORDINANCE DATED JUNE 13, 2008:

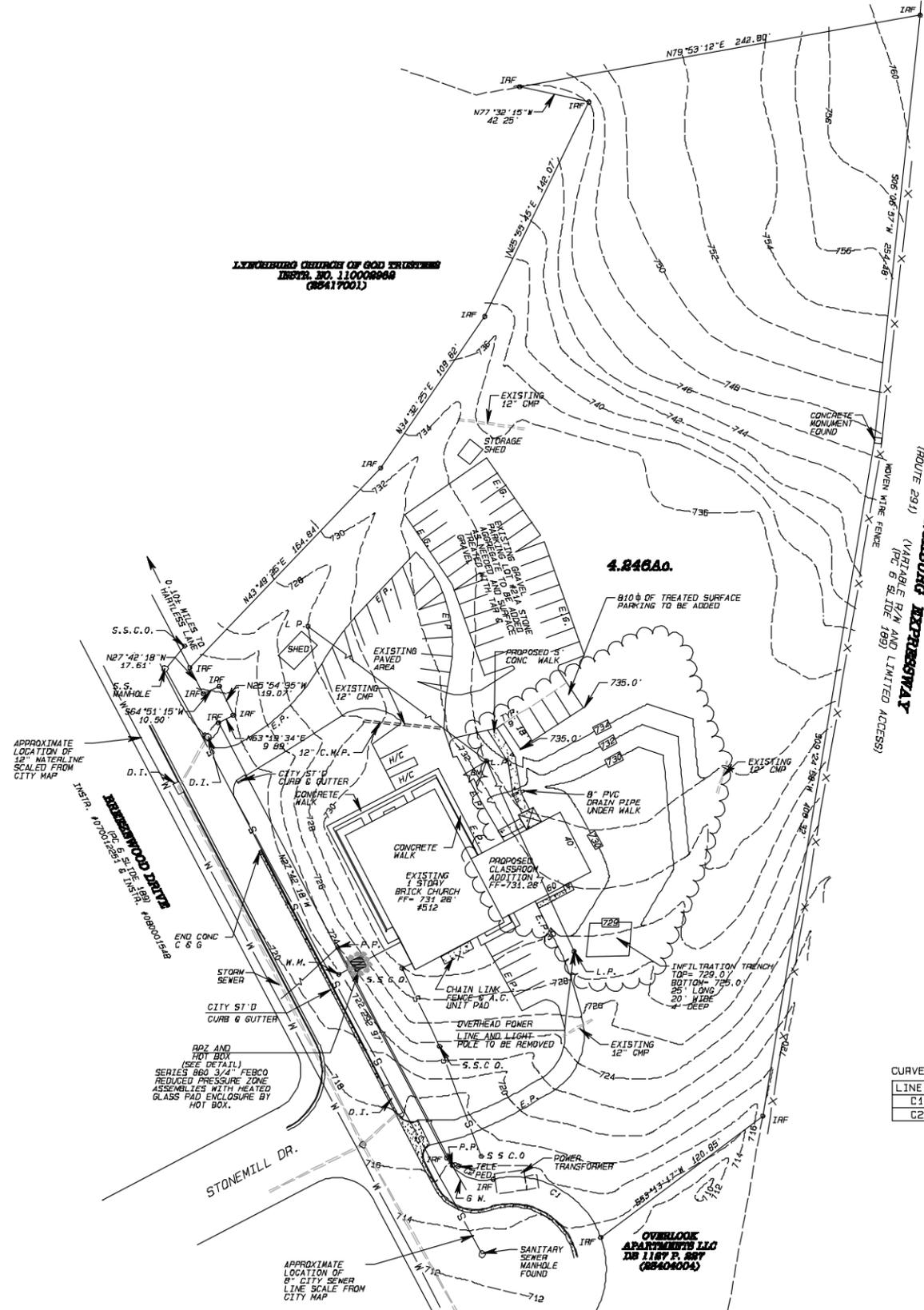
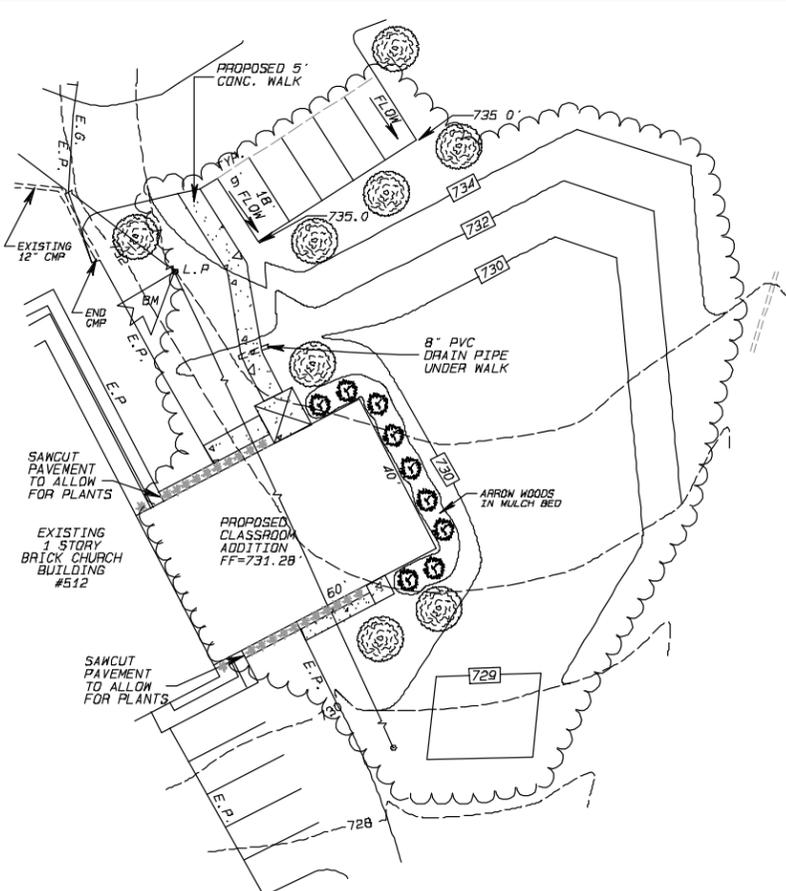
COMMON NAME	PLANTING COUNT	SIZE AT TIME OF PLANTING	BOTANICAL NAME
- LEGACY SUGAR MAPLE	3	1 1/2" CALIPER	(ACER SACCHARIN 'LEGACY')
- DOGWOOD	5	1 1/2" CALIPER	(CORNUS FLORIDA)
- JUNIPERS (3' ± DN CENTER IN MULCH BED)	23	2" CONTAINER	(JUNIPERUS HORIZONTALIS 'GLAUCA')
- ARNON-WOOD (PLANT PERENNIALS AS NEEDED FOR FILLER)	9	3" CONTAINER	(VIBURNUM DENTATUM)
- CRIMSON PYMY JAPANESE BARBERRY	10	3" CONTAINER	(BERBERIS THUNBERGII 'CRIMSON PYMY')

PARKING TABULATION	EXISTING SPACES	NEW SPACES ADDED	MINIMUM REQUIRED	TOTAL SPACES PROVIDED
STANDARD (9x18)	45	5	39	
ADA SPACES	2		2	
TOTAL	47	5		52

PER SECTION 35.1-25 (e) (2) PLACES OF WORSHIP ONE (1) FOR EACH FOUR (4) FIXED SEATS INCLUDED; BENCHES SHALL BE DEEMED TO HAVE CAPACITY OF ONE (1) PERSON PER TWENTY (20) LINEAR INCHES OF BENCH

LANDSCAPE PLAN INSERT

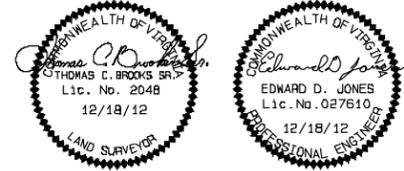
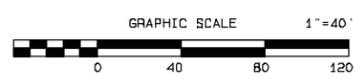
SCALE: 1" = 20'



- LEGEND:
- ⊕ = CENTERLINE
 - O.H. = OVERHEAD
 - CONG. = CONCRETE
 - H/C = HANDICAP
 - DB = DEED BOOK
 - AC = AIR CONDITIONER
 - ELEC. = ELECTRIC
 - LP = LIGHT POLE
 - TYP. = TYPICAL
 - ST'D = STANDARD
 - E.P. = EDGE OF PAVEMENT
 - 780- = EXISTING CONTOURS
 - 780 = PROPOSED GRADES
 - H/C = HANDICAP
 - IRF = IRON REBAR FOUND
 - S = SANITARY SEWER
 - CMP = CORRUGATED METAL PIPE
 - CPP = CORRUGATED PLASTIC PIPE
 - EG = EDGE OF GRAVEL
 - ⚡ = (BENCHMARK) RAILROAD SPIKE SET IN BASE OF LIGHT POLE ELEVATION TOP OF SPIKE = 734.87'
 - W— = WATERLINE
 - ☁ = AREA OF NEW CONSTRUCTION
 - S.S.C.O. = SANITARY SEWER CLEANOUT
 - D.I. = DROP INLET
 - TELE = TELEPHONE
 - PED = PEDISTAL
 - CMP = CORRUGATED METAL PIPE

CURVE DATA:

LINE	DELTA	RADIUS	ARC	CHORD	CHORD BEARING
C1	83°08'08"	55.00'	79.80'	72.99'	N61°39'34"W
C2	75°31'21"	25.00'	32.95'	30.62'	N65°27'58"W



REVISION	DATE	COMMENTS
1	12/18/12	CITY COMMENTS
2		
3		
4		
5		

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COMM. NO.: 12753
 DATE: NOVEMBER 19, 2012
 SHEET NO.: 55 OF 513
 PLAN SCALE: 1" = 40'
 TAX MAP NO.: 23417003
 ACRES OF VIRGINIA, INC.

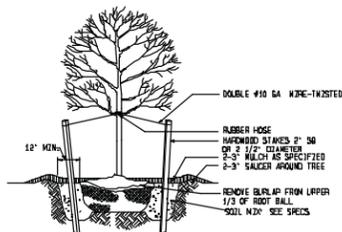
SITE & LANDSCAPE PLAN FOR NEW CLASSROOM ADDITION

PROPERTY OF:
Lynchburg Church of God
 LYNCHBURG, VIRGINIA

DRAWING
 SITE & LANDSCAPE PLAN FOR NEW CLASSROOM ADDITION
 SHEET 2

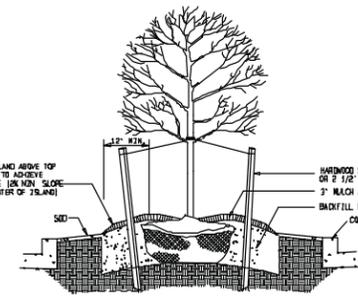
GENERAL LANDSCAPE SPECIFICATIONS:

- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO UTILITIES DURING THE COURSE OF THE WORK. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO UTILITIES, SITE STRUCTURES, ETC., RESULTING FROM LANDSCAPE CONSTRUCTION.
- ALL PLANTS MUST BE VIGOROUS, HEALTHY MATERIAL, FREE OF PESTS AND DISEASE.
- ALL PLANTS AND TREES MUST MEET ALL REQUIREMENTS SPECIFIED IN THE PLANT LIST, DETAILS, AND SPECIFICATIONS.
- ALL TREES MUST BE GUED OR STAKED AS SHOWN IN THE DETAILS.
- ALL PLANTS AND PLANTING AREAS MUST BE MULCHED.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON FINAL LANDSCAPE PLANS PRIOR TO PRICING THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETELY MAINTAINING THE WORK (INCLUDING BUT NOT LIMITED TO: WATERING, MULCHING, SPRAYING, FERTILIZING, ETC.) OF ALL PLANTING AREAS AND LAWNS UNTIL TOTAL ACCEPTANCE OF THE WORK BY THE OWNER.
- CONTRACTOR SHALL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. CONTRACTOR SHALL MAKE ALL REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER).
- CONTRACTOR SHALL STAKE OR HAVE STAKED PLANT MATERIAL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL HAVE OWNERS REPRESENTATIVE APPROVE ALL STAKING PRIOR TO INSTALLATION.
- ANY MATERIAL WHICH DIES, OR DEFOLIATES (PRIOR TO ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED AND REPLACED.
- STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GENERAL GUIDELINE SPECIFICATIONS ONLY AND WILL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- THE OWNER RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING THEIR STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR SOIL SAMPLING AND TESTS TO DETERMINE EXACT FERTILIZER REQUIREMENTS.
- INSTALL STONE MAINTENANCE STRIP IF REQUIRED. STONE SHALL CONSIST OF RIVERSTONE WITH MAXIMUM DIMENSION OF FOUR INCHES (4"). STONE SHALL BE LAYED THREE INCHES (3") DEEP OVER WEED BARRIER FABRIC. OVERLAP FABRIC SIX INCHES (6") PER COURSE. EDGING SHALL BE FOUR INCHES (4") X THREE SIXTEENTH INCH (3/16") BLACK ALUMINUM EDGING AS MANUFACTURED BY SURE-LOC (1-800-SURE-LOC) OR APPROVED EQUAL. ANCHOR EDGING IN PLACE WITH STAKES ELEVEN INCHES (11") LONG.
- LANDSCAPE CONTRACTOR IS TO BE RESPONSIBLE FOR WATERING ALL PLANT MATERIALS UNTIL THE TIME THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTIONAL.
- IF THE SITE DEVELOPMENT PLANS DO NOT INCLUDE AN IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ALL PLANT MATERIALS UNTIL THE BUILDING IS TURNED OVER TO THE OWNER.
- CHEMICAL WEED CONTROL SHALL BE APPLIED TO ALL LANDSCAPE AREAS PRIOR TO ANY PLANT INSTALLATION.
- THE CONTRACTOR SHALL SUBMIT A LIST OF ANY PROPOSED PLANT SUBSTITUTIONS. SUBSTITUTIONS MUST BE APPROVED BY THE OWNER PRIOR TO PURCHASE AND INSTALLATION.
- CONTRACTOR SHALL ALLOW TEN (10) WORKING DAYS FOR REVIEW AND APPROVAL BY THE OWNER.
- ALL PLANTS MUST MEET MINIMUM SIZE PER CITY OF LYNCHBURG CODE. TREES SHALL BE OF NO. 1 GRADE SPECIMEN AND SHRUBS SHALL BE HEAVY WELL SHAPED SPECIMENS.



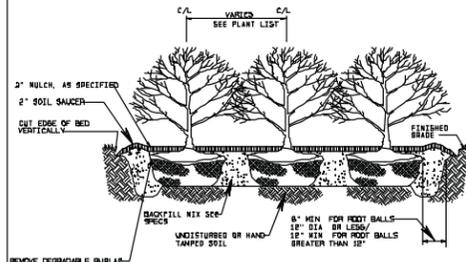
- REMOVE DEAD OR BROKEN BRANCHES, RETAINING NATURAL SHAPE.
- NEVER CUT CENTRAL LEADER.
- SET TREE WITH 1/3 ROOT BALL ABOVE GRADE.
- STAKES, WIRE & HOSES SHALL BE REMOVED AFTER ONE YEAR.
- SCAFFY SUBSOIL TO A MIN. 4" DEPTH.
- PLACE STAKES PARALLEL TO WALKS.

1 DECIDUOUS TREE PLANTING
SCALE: N.T.S.



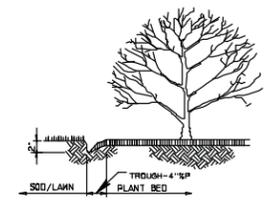
- TEST DRAINAGE IN ISLANDS AFTER EXCAVATION. FILL PIT WITH 4" OF WATER. IF WATER IS STANDING AFTER ONE HOUR, EXCAVATE 6" DEEPER LAY 6" DRAINAGE BEDDING, COVER BEDDING WITH FILTER FABRIC. LAP UP 6" ALL AROUND.

2 TREE ISLAND DETAIL
SCALE: N.T.S.



- 1/3 OF ROOT BALL TO BE SET ABOVE GRADE.
- SCAFFY SIDERS OF PIT TO 4".
- FOR CONTAINER MATERIAL, SLASH ROOT BALL FROM TOP TO BOTTOM, 1" DEEP MIN.
- REMOVE DEAD OR BROKEN BRANCHES, RETAIN NATURAL FORM.

3 MASS SHRUB PLANTING
SCALE: N.T.S.

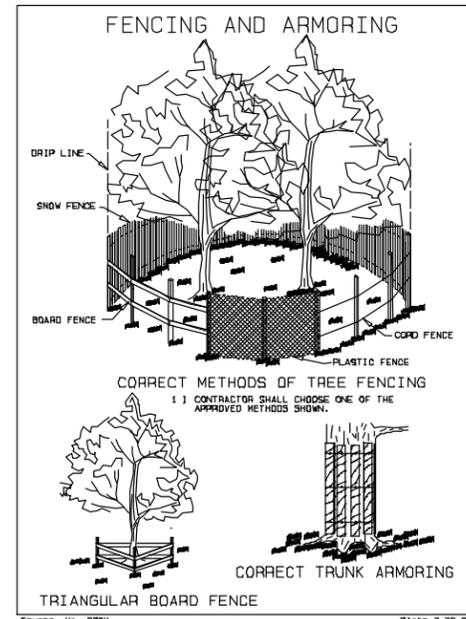
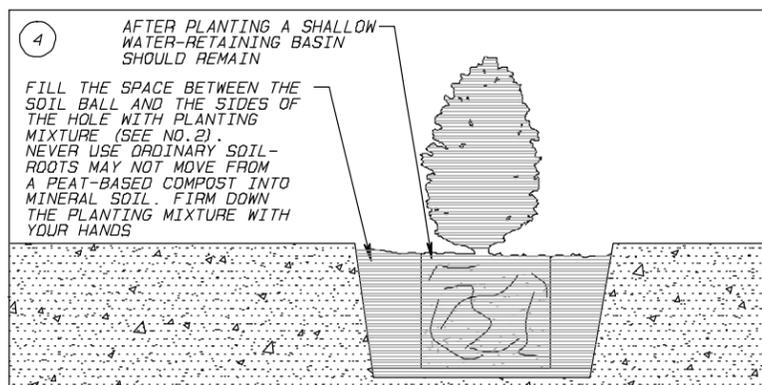
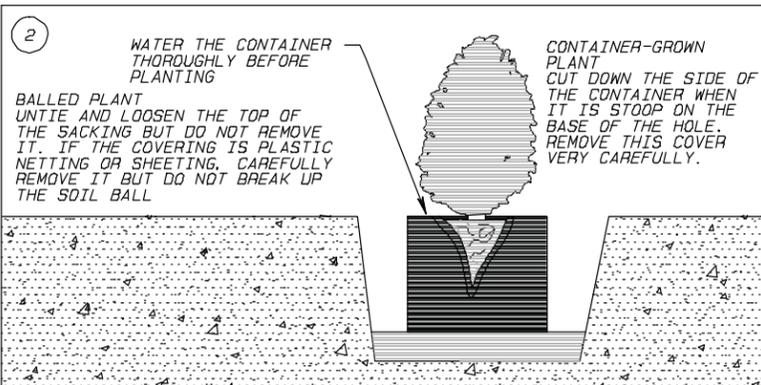
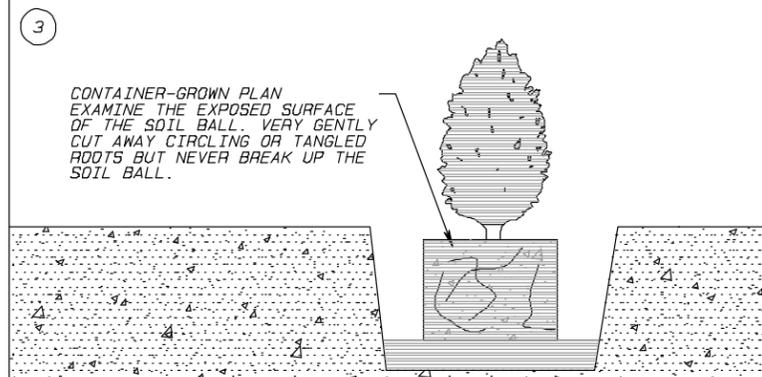
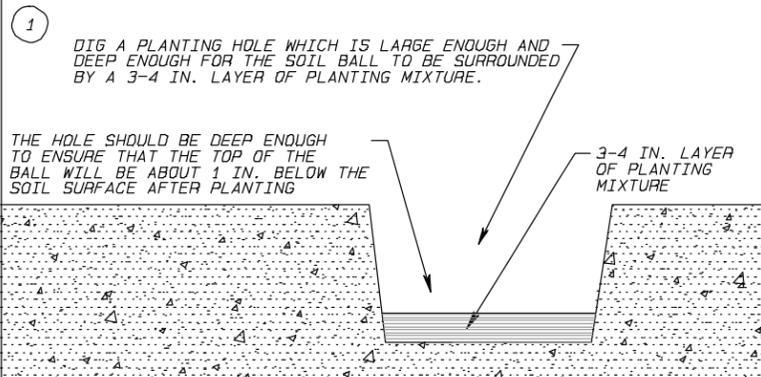


- CUT PLANT BEDS IN SMOOTH CURVES.
- CUT EDGE OF SOG VERTICALLY TO CREATE CLEAN EDGE.

4 PLANT BED EDGING
SCALE: N.T.S.

FOUNDATION PLANTING DETAIL (TYP.)

N. T. S.



REVISION	DATE
1	12/18/12
2	
3	
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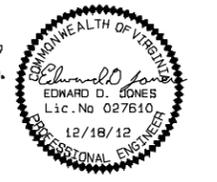
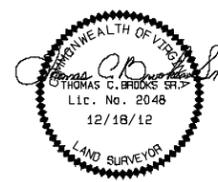
AMHERST OFFICE
SURVEYING & PLANNING
357 SOUTH MAIN STREET
AMHERST, VA 24521
OFFICE (434) 946-5540

COMM. NO.: 18753
DATE: NOVEMBER 19, 2012
SERV. NO.: 00552372

TAX MAP NO.: 23417003
ACRES OF VIRGINIA, INC.

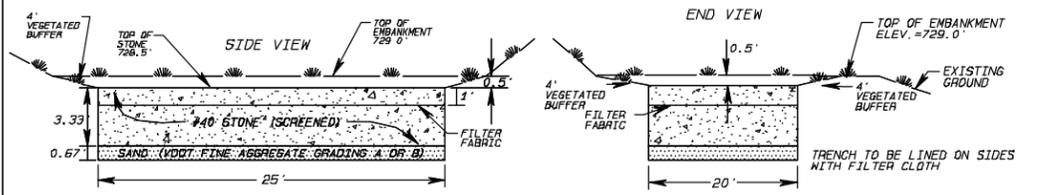
LANDSCAPE SPECIFICATIONS

PROPERTY OF
Lynchburg Church Of God
LYNCHBURG, VIRGINIA



THIS SHEET IS PART OF A SET

INFILTRATION TRENCH DETAIL
NOT TO SCALE



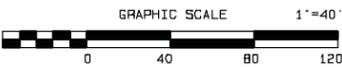
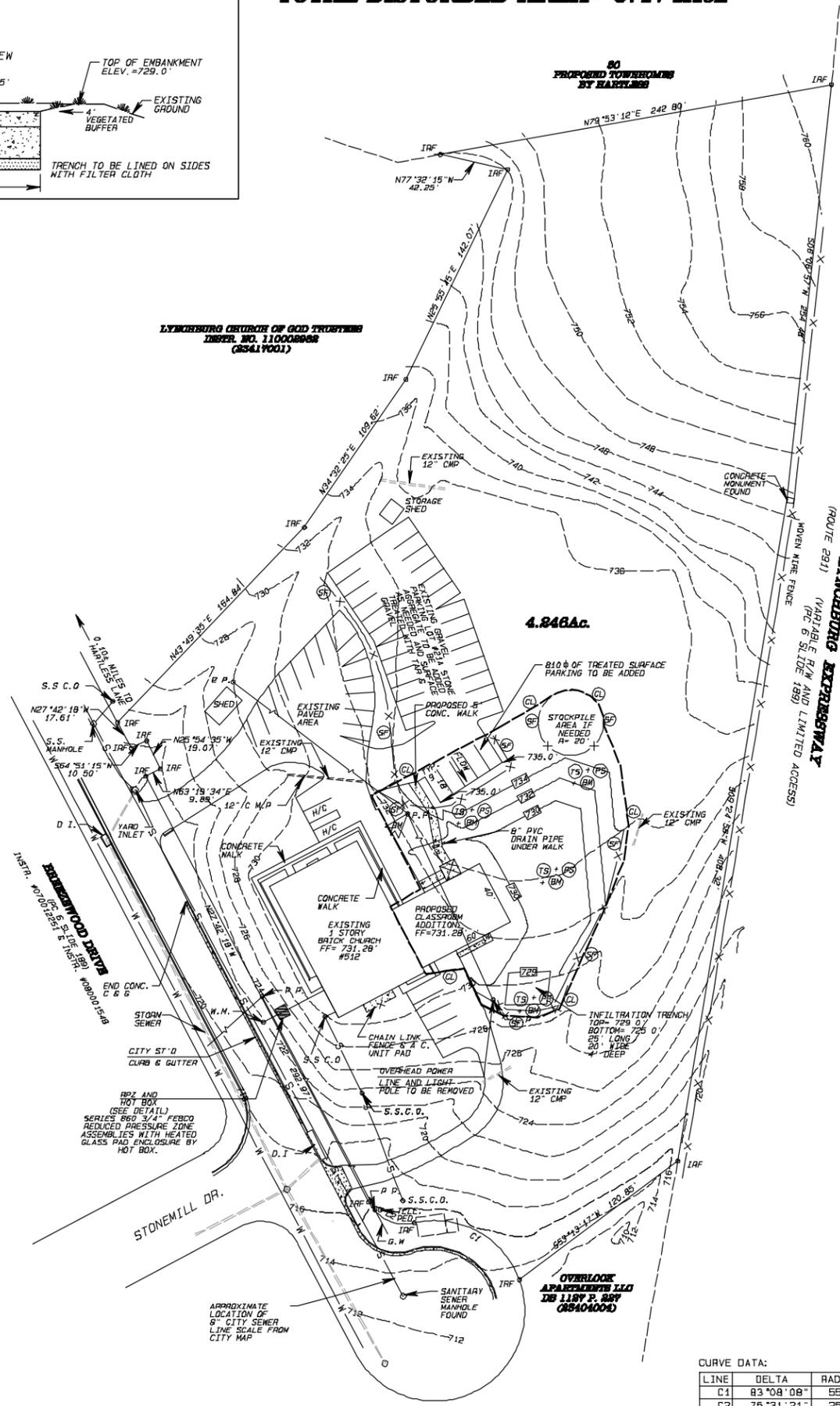
LEGEND:

- 730 -- = EXISTING CONTOURS
- 730 - = PROPOSED GRADES
- F.F. = FINISH FLOOR
- (SF)--- = SILT FENCE
- (CL)--- = CLEARING LIMITS
- (TS) = TEMPORARY SEEDING
- (PS) = PERMANENT SEEDING
- (MU) = MULCH
- (B/M) = BLANKET MATTING
- SSCO = SANITARY SEWER CLEANOUT
- W--- = WATERLINE
- S--- = SANITARY SEWER LINE
- DI = DROP INLET
- T--- = UNDERGROUND TELEPHONE LINE
- CL = CENTERLINE
- O.H. = OVERHEAD
- CONC. = CONCRETE
- H/C = HANDICAP
- DB = DEED BOOK
- AC = AIR CONDITIONER
- ELEC. = ELECTRIC
- LP = LIGHT POLE
- △ = BENCHMARK
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- IRF = IRON REBAR FOUND
- CMP = CORRUGATED METAL PIPE
- CPP = CORRUGATED PLASTIC PIPE
- E.G. = EDGE OF GRAVEL

SEQUENCE OF CONSTRUCTION.

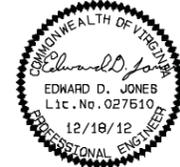
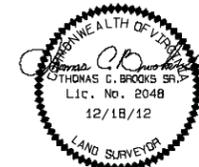
- 1.) INSTALL SILT FENCE AS SHOWN AROUND CONSTRUCTION SITE.
- 2.) ALL DISTURBED AREAS ARE TO RECEIVE TEMPORARY SEEDING, PERMANENT SEEDING, AND BLANKET MATTING AND MULCH
- 3.) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE IF ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO PROTECT ADJACENT PROPERTIES. CONTRACTOR SHALL NOTIFY ACRES OF VIRGINIA, INC. PRIOR TO INSTALLING ADDITIONAL MEASURES
- 4.) NO EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED WITHOUT APPROVAL FROM THE EROSION AND SEDIMENT CONTROL INSPECTOR.
- 5.) MULCH AND SEEDING SHALL TAKE PLACE ONCE AREA IS BROUGHT TO FINAL GRADE.
- 6.) CONTRACTOR SHALL INSTALL THE INFILTRATION PIT ONCE SITE IS AT FINAL GRADE AND STABILIZED.
- 7.) AFTER COMPLETE STABILIZATION OF THE SITE, REMOVE TEMPORARY SEDIMENT FENCES

TOTAL DISTURBED AREA= 0.474Ac±



CURVE DATA:

LINE	DELTA	RADIUS	ARC	CHORD	CHORD BEARING
C1	83°08'08"	55.00'	79.80'	72.99'	N61°39'34"W
C2	75°31'21"	25.00'	32.95'	30.62'	N65°27'58"W



REVISION	DATE	COMMENTS
1	12/18/12	CITY COMMENTS
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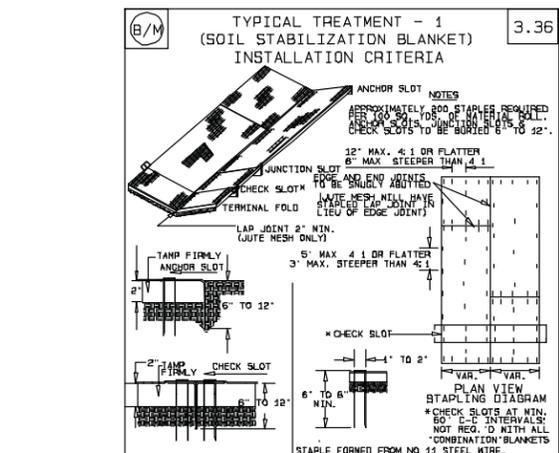
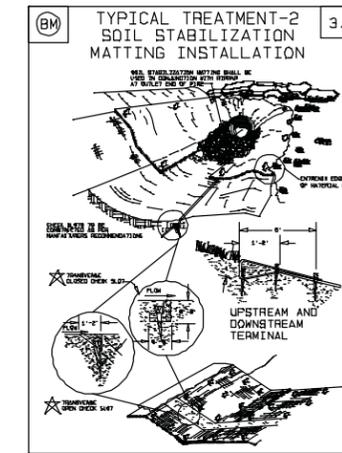
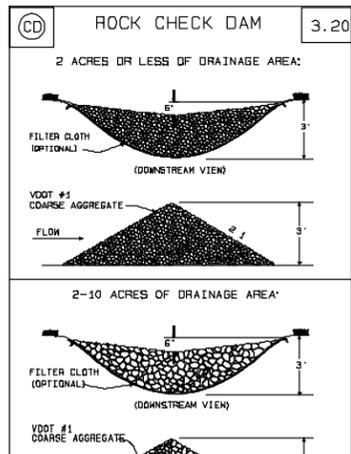
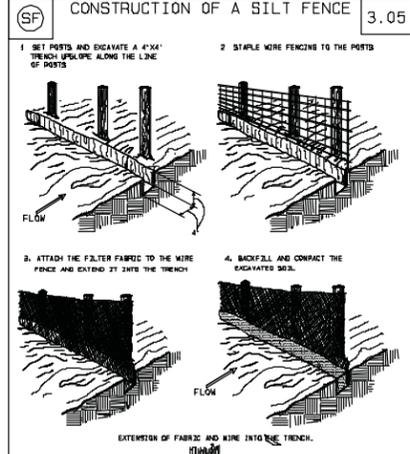
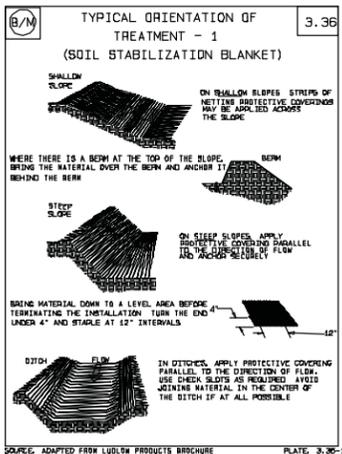
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COMM. NO.: 12753
DATE: NOVEMBER 19, 2012
SHEET NO. 0518513753-
0518513753-05
PLAN SCALE: 1" = 40'
DATE PLOTTED: 12/17/2012
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GRADING EROSION CONTROL & STORM WATER MANAGEMENT PLAN FOR NEW CLASSROOMS

PROPERTY OF
Lynchburg Church of God
LYNCHBURG, VIRGINIA

DRAWING
GRADING EROSION CONTROL & STORM WATER MANAGEMENT PLAN FOR NEW CLASSROOMS
SHEET 4



(TS) TABLE 3.31-B ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS "QUICK REFERENCE FOR ALL REGIONS"

Planting Dates	Species	Rate (lbs./acre)
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100
Feb. 15 - Apr. 30	Annual Ryegrass (Lolium multi-florum)	60 - 100
May 1 - Aug 31	German Millet (Setaria italica)	50

(TS) TABLE 3.31-A LIVING REQUIREMENTS FOR TEMPORARY SITES

PH Test	Recommended Application of Agricultural Limestone
below 4.2	3 tons per acre
4.2 to 5.2	2 tons per acre
5.2 to 6	1 ton per acre

(PS) TABLE 3.30-D SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

Minimum Care Lawn	Total Lbs Per Acre
- Commercial or Residential - Kentucky 31 or Turf-Type Tall Fescue - Improved Perennial Ryegrass - Kentucky Bluegrass	175-200 lbs 95-100% 0-5% 0-5%
High-Maintenance Lawn	200-250 lbs. 100%
General Slope (3:1 or less)	125 lbs. 2 lbs. 20 lbs. 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	100 lbs 2 lbs 20 lbs 150 lbs 20 lbs

(MU) TABLE 3.35-A ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES	RATES:		NOTES:
	Per Acre	Per 1000 sq. ft.	
Straw or Hay	1-1/2 - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs	35 lbs.	Do not use as mulch for winter cover on during not dry periods. * Apply as slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

TABLE 3.31-C TEMPORARY SEEDING PLANT MATERIALS, SEEDING RATES, AND DATES

SPECIES	SEEDING RATE Acre	SEEDING RATES								PLANT CHARACTERISTICS
		1000 ft2	3/1	5/3	8/20	2/20	5/3	9/1	12/1	
DATS (Avena sativa)	3 bu (up to 100 lbs; not 1000 than 50 lbs)	210g.	X	-	-	X	-	-	-	Use hardy varieties (e.g., Nodis)
RYE (Secale cereale)	2 bu (up to 110 lbs; not less than 50 lbs.)	2.5 lbs.	X	-	X	X	-	X	-	Use low late fall seedings, winter moisture.
GERMAN MILLET (Setaria italica)	80 lbs.	approx. 1 lb.	-	X	-	-	X	-	-	Warm-season annual. Dies at first frost. May be added to summer mixes.
ANNUAL RYEGRASS (Lolium multi-florum)	60 lbs.	1-1/2 lbs.	X	-	X	X	-	X	-	May be added in mixes. Will mow out of most stands.
KEEPING LOVEGRASS (Eragrostis curvula)	30 lbs.	5-1/2 ozs.	-	X	-	-	X	-	-	Warm-season perennial. May bunch. Tolerates not only slopes and acid, infertile soils. May be added to mixes.
KOREAN LESPEDEZA (Lespedeza bicolor)	20 lbs.	approx 1-1/2 lbs.	X	X	-	X	X	-	-	Warm season annual legume. Tolerates acid soils. May be added to mixes.

NARRATIVE:
PROJECT DESCRIPTION:
THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A 2400 SQUARE FOOT ADDITION TO THE EXISTING CHURCH BUILDING FOR Sunday School classrooms. THE TOTAL NEW CONSTRUCTION DISTURBED AREA IS 0.474 ACRES. THE TOTAL NEW IMPERVIOUS AREA INCLUDING THE NEW INFRASTRUCTURE IS 0.69 ACRES. THERE IS AN INCREASE OF 0.09 ACRES OF IMPERVIOUS AREA TO THE TOTAL SITE.
EXISTING CONDITIONS:
THIS SITE IS COVERED WITH APPROXIMATELY 15% MIXED HARDWOODS AND PINES. THE REMAINING PORTION OF THIS SITE IS FIELD GRASS AND OPEN SPACE WITH EXCEPTION OF BUILDINGS AND PARKING AREAS CONSISTING OF APPROXIMATELY 2.69 ACRES.
ADJACENT PROPERTY:
THIS PROPERTY IS BOUNDED ON THE WEST BY A CITY MAINTAINED STREET (BEECHWOOD DRIVE). THE PROPERTY IS BOUNDED ON THE NORTHWEST BY PROPERTY OWNED BY LYNCHBURG CHURCH OF GOD. THIS LAND IS MOSTLY OPEN AND BEARING TO BEECHWOOD DRIVE. THE PROPERTY TO THE NORTH IS PROPERTY OWNED BY HARTLESS AND WILL BE DEVELOPED INTO 50 TOWNHOMES. THIS SITE CURRENTLY DRAINS ONTO THE PROPERTY (14-25 ACRES) BEING DEVELOPED FOR A CHURCH ADDITION. IF THE TOWNHOMES ARE CONSTRUCTED THE OWNER MUST OBTAIN HIS RUNOFF ON HIS PROPERTY. THE PROPERTY IS BOUNDED ON THE EAST BY THE LYNCHBURG EXPRESSWAY AND ON THE SOUTH BY A SMALL PARCEL OWNED BY OVERLOOK APARTMENTS. ALL NEW RUNOFF FOR THE NEW CONSTRUCTION SHALL BE DISCHARGED TO THE EXISTING DRAINAGE CONTROL. INCREASED RUNOFF AND ADDRESSES STORMWATER QUALITY.
OFF SITE AREA:
NO ASSOCIATED ACTIVITY WILL OCCUR OFF SITE. IF IT BECOMES NECESSARY TO BORROW OR STOCKPILE, THE CONTRACTOR WILL SUBMIT TO THE PROPER AUTHORITIES A SUPPLEMENTAL EROSION CONTROL MEASURES COVERING THESE AREAS AND UPON APPROVAL PROCEED.
SOILS:
MHC2 - MADISON LOAM, 6 TO 15 PERCENT SLOPES, ERODED.
THE MADISON SERIES CONSISTS OF WELL DRAINED, MODERATELY PERMEABLE SOILS THAT FORMED IN RESIDUAL WEATHERED FROM FELSIC OR INTERMEDIATE, HIGH-GRADE METAMORPHIC OR IGNEOUS ROCKS HIGH IN SILICA CONTENT THEY ARE VERY DEEP TO DEEP AND MODERATELY TO SUBSOLIC. THEY ARE ON GENTLY SLOPING TO STEEP UPLANDS IN THE PIEDMONT. SOILS ARE HEAVY BETWEEN 14 AND 15 PERCENT CLAY. RANGE FROM 2 TO 80 PERCENT SILICA. LOCATION, MEAN ANNUAL TEMPERATURE IS 60 DEGREES F., AND MEAN ANNUAL PRECIPITATION IS 60 INCHES.

VIRGINIA EROSION AND SEDIMENT CONTROL LAW MINIMUM STANDARDS FOR CONTROLLING EROSION AND SEDIMENTATION

STABILIZATION OF DENIED AREAS:
PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENIED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENIED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
SOIL STABILIZATION:
SOIL STABILIZATION REFERS TO MEASURES WHICH PROTECT SOIL FROM THE EROSION FORCES OF RAINFALL IMPACT AND FLOWING WATER. APPLICABLE PRACTICES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING, AND THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED.
STABILIZATION OF SOIL STOCKPILES:
DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
PERMANENT VEGETATION:
A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENIED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT WILL WITHSTAND THE WEATHER AND MAINTAIN A PROTECTIVE COVER. THE CONTRACTOR SHALL MAINTAIN AND NURTURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
TINING AND STABILIZATION OF SEDIMENT TRAPPING MEASURES:
ALL SEDIMENT TRAPPING MEASURES SHALL BE TINED AND STABILIZED WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES:
SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBANCE AND SHALL BE MADE FUNCTIONAL BEFORE UPOUSURE LAND DISTURBANCE TAKES PLACE.
STABILIZATION OF EARTHEN STRUCTURES:
STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

CUT AND FILL SLOPES:
CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SOIL STABILIZATION MEASURES UNTIL THE PROBLEM IS CORRECTED.
A.) ROUGHENED SOIL SURFACES ARE GENERALLY PREFERRED TO SMOOTH SURFACES ON SLOPES (SEE SURFACE ROUGHENING, E & S HANDBOOK).
B.) DIVERSIONS SHALL BE CONSTRUCTED AT THE TOP OF LONG STEEP SLOPES WHICH HAVE SIGNIFICANT DRAINAGE AREA ABOVE THE SLOPES. DIVERSIONS ON TERRACE SLOPES MAY ALSO BE USED TO REDUCE SLOPE LENGTHS.
CONCENTRATED RUNOFF FLOW DOWN CUT OR FILL SLOPES:
CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITH AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
WATER SEEPS FROM A SLOPE FACE:
WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE, OR OTHER PROTECTION SHALL BE PROVIDED.
STABILIZATION OF OUTLETS:
BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LININGS SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
UNDERGROUND UTILITY CONSTRUCTION:
UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA.
A.) NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B.) EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
C.) EFFLUENT FROM DEMATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
D.) MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E.) RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS.
F.) APPLICABLE SAFETY REGULATION SHALL BE COMPLIED WITH.

CONSTRUCTION ACCESS ROUTES:
WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED ROADS PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRAFFIC ONTO A PUBLIC ROAD SURFACE. THE ROAD SHALL BE CLEANED THROUGHOUT AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT TRAPPING DEVICE. ROAD SURFACES SHALL BE CLEANED AS SOON AS POSSIBLE AFTER SEDIMENT IS REMOVED IN THIS MANNER. THE PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.
CRITICAL AREAS:
ALL DISTURBED AREAS OF THIS SITE HAVE A MEDIUM TO HIGH EROSION POTENTIAL AND SHALL BE STABILIZED AS SOON AS POSSIBLE WITH TEMPORARY OR PERMANENT MEASURES. CUT AND FILL SLOPES OF 2:1 OR GREATER SHALL BE STABILIZED WITH BLANKETS AND MATTING AS SOON AS THE FINAL GRADE IS ESTABLISHED. SPECIAL ATTENTION SHOULD BE PAID TO RAVINE AT REAR OF PROPERTY.

TEMPORARY EROSION & SEDIMENT CONTROL MEASURE REMOVAL:
ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM ADMINISTRATION.
PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A COPY OF APPROVED EROSION AND SEDIMENT CONTROL PLAN AND ADHERE TO SAME. THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE USED IN ADDITION TO THE APPROVED NARRATIVE AND PLAN.

PERMANENT STABILIZATION:
ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING SHALL BE PLACED ACCORDING TO 517.0-6 SPEC. 2.5. EROSION CONTROL BLANKETS SHALL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDING TO PROTECT THE SLOPES PROPERLY. MULCH (STRAW OR FIBER) SHALL BE USED ON RELATIVELY FLAT AREAS. IN ALL SEEDING OPERATIONS, SEED, FERTILIZER, AND LIME SHALL BE APPLIED PRIOR TO MULCHING.
CONTRACTOR SHALL OBTAIN A SOIL TEST PRIOR TO FINAL SITE STABILIZATION TO DETERMINE FERTILIZER APPLICATION RATES FOR THE ESTABLISHMENT OF GRASS ON THE SITE.

STORMWATER MANAGEMENT:
INCREASE OF ON-SITE RUNOFF WILL BE INFILTRATED AT THE INFILTRATION TRENCH. THERE WILL BE NO INCREASE IN RUNOFF TO ADJACENT PROPERTIES AS A RESULT OF THIS PROJECT. THE INFILTRATION TRENCH WILL BE MAINTAINED BY THE OWNER. NUTRIENT RUNOFF IS REDUCED TO PREDEVELOPMENT AND RUNS THROUGH THE USE OF THE INFILTRATION TRENCH.
MAINTENANCE:
IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS SHALL BE CHECKED IN PARTICULAR:
1. THE SILT FENCE BARRIERS AND INLET FILTERS SHALL BE CHECKED REGULARLY FOR UNWANTING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
2. THE SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEED AS NEEDED.

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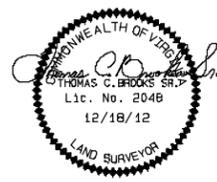
LYNCHBURG OFFICE:
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COMM. NO. 1: 12793
DATE: NOVEMBER 19, 2012
SEAL: 1911550682012
SCALE: N.T.S.
TAX MAP NO. 23417003
CORRESPONDENCE: VIRGINIA, INC.

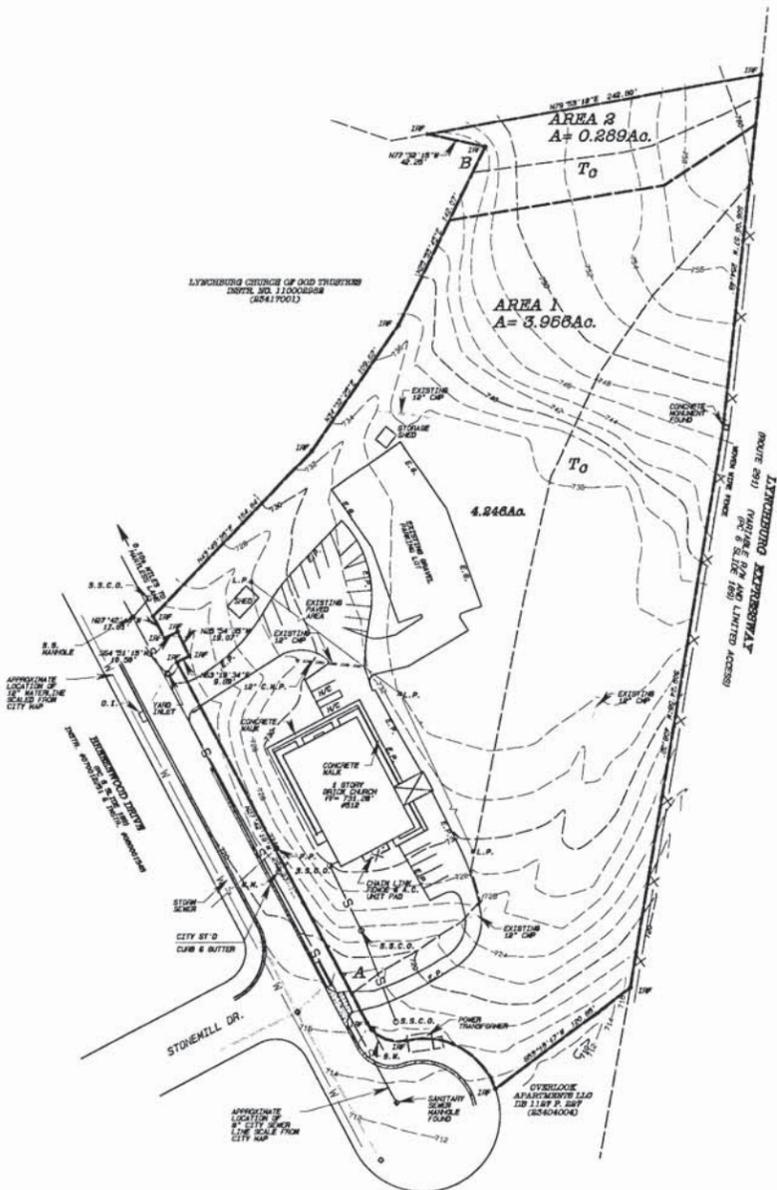
PROPERTY OF:
Lynchburg Church Of God
LYNCHBURG, VIRGINIA

EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT DETAIL SHEET

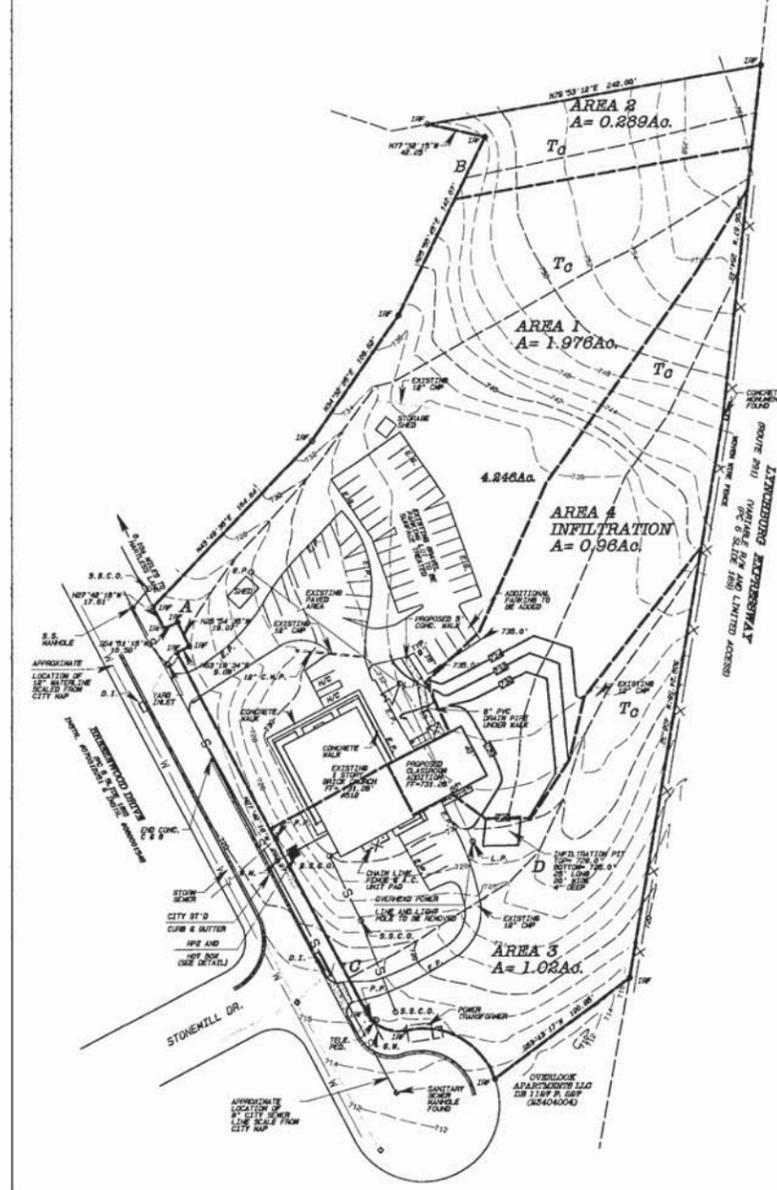
DRAWING SHEET 5



FLOW SUMMARY TABLE								
DRAINAGE AREA ID(S)	PRE	POST LS	POST SP	POST BP1	POST IFA	POST IFB	POST BP2	TOTAL POST
TOTAL DRAINAGE AREA SIZE	3	0.82	0.25	0.42	0.981	1.037	0.182	
IMPERVIOUS(0.90)			0.13		0.28	0.48		
FUTURE DEVELOPMENT(0.90)								
FORESTED AREA (0.30)								
BRUSH AREA (0.35)	3.00			0.42	0.71	0.55	0.182	
LAWN AREA (0.35)		0.82	0.05					
BARE EARTH (0.50)								
COMPOSITE RUNOFF FACTOR	0.35	0.35	0.54	0.35	0.51	0.60	0.35	
TC (OVERLAND) LENGTH	200	5	20	40	75	75	100	
TC (OVERLAND) HEIGHT	8	2	1	5	1	1	8	
TC (OVERLAND) COVER C VALUE	0.3	0.3	0.3	0.3	0.3	0.35	0.35	
TC (CHANNEL) LENGTH	285	15	175	100	240	280	30	
TC (CHANNEL) HEIGHT	24	3.5	1.7	6	24	24	4	
TC (OVERLAND)	12.80	1.75	4.66	5.24	10.44	8.95	7.19	
TC (CHANNEL)	1.7	0.1	2.7	0.9	1.4	1.7	0.3	
TOTAL TIME OF CONCENTRATION	14.5	1.9	7.3	6.1	11.8	10.6	7.4	
INTENSITY (2 YEAR)	2.85	4.89	3.71	3.91	3.11	3.25	3.69	
INTENSITY (10 YEAR)	3.91	6.67	5.05	5.32	4.25	4.44	5.02	
INTENSITY (25 YEAR)	4.52	7.86	5.83	6.16	4.91	5.12	5.80	
INTENSITY (100 YEAR)	5.27	9.23	6.76	7.14	5.71	5.95	6.72	
DESIGN FLOW (2 YEAR)	2.99	1.40	0.50	0.58	1.56	2.03	0.23	2.40
DESIGN FLOW (10 YEAR)	4.10	1.91	0.68	0.78	2.13	2.77	0.32	4.30
DESIGN FLOW (25 YEAR)	4.74	2.26	0.79	0.91	2.46	3.20	0.37	11.69
DESIGN FLOW (100 YEAR)	5.53	2.65	0.92	1.05	2.86	3.71	0.43	13.76



PRE-DRAINAGE MAP



POST-DRAINAGE MAP



DATE	12/18/12
REVISION	1 CITY COMMENTS
2	
3	
4	
5	

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COMM. NO.: 12793
 DATE: NOVEMBER 19, 2012
 FILE NO.: PREPOST12793-1
 SERVER-NEWJOB55012
 PLAN SCALE: 1" = 60'
 TAX MAP NO. 23417003
 CORRESPONDENCE TO:
 ACRES OF VIRGINIA, INC.

STORMWATER MANAGEMENT CALCULATIONS & DRAINAGE MAPS

PROPERTY OF:
Lynchburg Church of God
 LYNCHBURG, VIRGINIA

DRAWING:
 STORMWATER MANAGEMENT CALCULATIONS & DRAINAGE MAPS
 SHEET 6

SITE PREPARATION AND DEMOLITION

GENERAL

RELATED DOCUMENTS

A General Conditions and Supplementary Conditions apply to this section.

WORK INCLUDED

- A Site preparation as specified and shown on the drawings, including, but not necessarily limited to the following:
1 Provide installation and maintain erosion and sediment control.
2 Clearing and grubbing.
3 Topsoil stripping and stockpile.
4 Locate and identify all existing utility services, including electricity, water, gas, sanitary, storm, cable, telephone, and fuel.
5 Removal and disposal of trash daily.
6 Temporary and permanent seeding.
7 Obtaining and paying for all permits to execute this work.

QUALITY ASSURANCE

A All work is to comply with Local, State, and Federal regulations and codes

JOB CONDITIONS

A Inspection

1 Examine areas for conditions under which work is to be performed. Report in writing to Owner's Representative all conditions contrary to those shown on the drawings or specified herein and all other conditions that will affect satisfactory execution of work such as inadequately constructed substrates or adjoining work. Do not proceed with work until unsatisfactory conditions have been corrected.

2 Starting work constitutes acceptance of the conditions under which work is to be performed. After such acceptance the contractor shall, at his expense, be responsible for correcting all unsatisfactory and defective work resulting from such unsatisfactory conditions.

B Permits. A copy of the approved plans and land disturbance permit shall be present on the site at all times.

C Nuisances. Keep dirt, dust, noise and other objectionable nuisances to a minimum. Use temporary enclosures, coverings and sprinkling, or combinations thereof, as necessary to limit dust to lowest practicable level, except do not use water to an extent to cause flooding, contaminated runoff, or icing.

D Traffic. Conduct work to ensure minimum interference with roads, alleys, streets, driveways, sidewalks, and access to and operations of on-site and adjacent site occupied or used facilities.

1 Do not close or obstruct streets, sidewalks, alleys or other public passageways without permission from authorities having jurisdiction.

E Protection

- 1 Prevent movement and settlement of adjacent structures. Install temporary barriers, fences, guard rails, enclosures, shoring, bracing, planking, barricades, lights, warning signs and other protections required to protect structures, utilities, landscaping, and other items that are to remain in place.
2 Protect bench marks from displacement.
3 Restore damaged improvements to their original condition as acceptable to parties having jurisdiction or authority, at no cost to the Owner

SEDIMENT DRAINAGE FABRIC

A Non-biodegradable, sunlight stabilized, woven polypropylene fabric, type which will retain sediment and reduce water runoff velocity

CONSTRUCTION ENTRANCE/EXIT

A Stone size ASTM D448, size no. 1 WOOD #1 course aggregate (2" - 3" diam.) Minimum pad thickness - 6 inches

EXECUTION

EROSION AND SEDIMENT CONTROL

- A Install erosion and sediment control devices as shown on plans.
B Maintain erosion control during construction until permanent pavement, plantings and restoration of natural areas are effective in controlling erosion at site. Employ additional erosion control measures where determined necessary to actual site conditions, or as directed by authorities having jurisdiction.
C Plan and execute construction by methods to control surface drainage from cut, fill, borrow and grading areas.

- 1 Schedule operations so ground surface will be disturbed for shortest possible time before permanent construction is installed
2 Maintain large areas as flat as practicable to minimize soil transportation through surface flow.
3 Where steep slopes or abrupt grade changes occur, install temporary diversion bars or silt fence at top of slope to direct water flow to a control point to be transported down slope in a slope drain. In all cases, do not allow water to flow uncontrolled down slopes

D. Construction Entrance/Exit:

- 1 Prior to any other construction, a stabilized construction entrance shall be constructed at each point of entry to or exit from the site. This is to be located as shown on plans.
2 The construction exit shall be maintained in a condition which will prevent tracking or flow of mud onto public right-of-way. This may require periodic top dressing of exit with 2" stone, as conditions demand.
3 All materials spilled, dragged, washed, or tracked from vehicle or site onto public roadway or into storm drainage system must be removed immediately

E Storm Drainage System:

- 1 Install as much of permanent system as practical and divert surface water into system, with remainder of system installed as soon as conditions allow. Coordinate with Section 02700 "Sewerage and Drainage".
2 Periodically, or when sediment reaches 1/2 the design depth of top of pipe, repair and/or clean any structures used to trap sediment.

- 1 Use straw or other mulches, temporary seeding, plastic sheets, filter mats, or other effective erosion treatments approved by authorities having jurisdiction.
2 Install permanent grass and other landscape plantings and materials, including mulching or hydroseeding for use as stabilization, maintain until ground cover planting is effective for erosion control.

G. Sediment Barriers:

- 1 Install at all locations where water flows from construction areas, including during permission of construction area. Maintain around drainage structures until starting of final subgrade preparation.
2 Arrange to create ponding behind barriers; remove accumulated sediments and maintain ponding capacity during construction.
3 Construction to remove sediments from flowing water by filtration. Primary filter media may consist of silt trenches utilizing anchored sediment drainage fabric, straw bales or other filtration media acceptable to authorities having jurisdiction.
4 Place silt barriers as access is obtained during clearing. No grading shall be done until silt barrier installation is completed.
5 Contractor shall inspect erosion control measures at the end of each working day to ensure measures are functioning properly.
6 The contractor shall remove accumulated silt when the silt is within 1/2 of the height of the silt fence.
7 Silt barriers to be placed as shown on the plans and at downstream toe of all cut and fill slopes.
8 After permanent grass cover and landscaping has been established, remove silt fence and appearance and dispose of properly. Remove only upon approval of inspector.

H Temporary Seeding:

- 1 Any disturbed area left exposed for a period greater than 30 days shall be stabilized with temporary seeding.
2 All seeding shall be in accordance with the plans

I Repair Washed and Eroded Areas, reestablish grades to required density, elevations, profiles and contours

J Contractor will implement additional Erosion and Sediment Control measures as necessary to prevent erosion and damage to adjacent properties and as directed by the authorities having jurisdiction.

K Contractor is responsible for monitoring downstream conditions throughout the construction period and clearing any debris and sediment resulting from the construction.

L Permanent Seeding and Landscaping:

- 1 Near job completion, all areas not to be paved or surfaced shall be landscaped per landscape plans or graded with permanent seeding.
2 All seeding shall be in accordance with the plans

SITE CLEARING

A General Remove any trees, shrubs, stumps, bushes, vines, undergrowth, deadwood, grass and other vegetation, improvements, or obstructions from the construction area, except as otherwise designated on the drawings to remain. Remove such items elsewhere on site or premises as specifically indicated. Removal includes digging out stumps and roots.

1 Carefully and cleanly cut roots and branches of trees indicated to be left standing, where such roots and branches obstruct new construction

1 Topsoil Activity. Topsoil is defined as loam surface soil found in a depth of not less than 4".

1 Strip topsoil to whatever depths encountered in a manner to prevent intermingling of subsoil or other objectionable material

a Remove heavy growths of grass from areas before striping
b Where trees are indicated to be left standing, strip topsoil striping no closer than the drip line of the tree to prevent damage to main root system

C. Field Quality Control:

- 1 Testing and Inspection: Contractor will obtain any day for services of an independent commercial testing laboratory for performing field quality control testing of soils during construction; tests of tests indicating non-compliance with requirements specified and retesting, including reconstruction of deficient areas, are also at Contractor's expense.
2 Refer to PART 3, article entitled Field Quality Control

2. Stockpile in locations convenient to areas shown to receive topsoil later or where directed by Owner or Project Engineer. Do not stockpile to depth exceeding eight feet. Do not drive heavy equipment over stockpiled material or around topsoil. Topsoil stockpile shall be temporarily covered, mulched and have perimeter protection.

3. Dispose of unsuitable or excess topsoil same as waste material, herein specified.

C. Clearing and Grubbing. Clear within construction limits: trees, shrubs and other vegetation, except for those indicated to be left standing.

1 Completely remove all stumps, in their entirety, roots, over 1 1/2" in diameter, attached roots, and other debris protruding through ground surface.
2 Use only hand methods for grubbing inside drip line of trees indicated to be left standing.

3 Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation of earthwork is indicated.
a Place fill material in horizontal layers not exceeding 6" loose depth, and thoroughly compact to a density equal to adjacent original ground.

UTILITIES

A. Contact local utility companies 72 hours minimum prior to start of demolition and/or excavation work. Confirm vertical notices and written notices. Verify locations of all utilities entering site and their locations on site

B. Cooperate with Owner, Surveyor, engineer, utility companies, adjacent property owners, and other building trades in maintaining, protecting, rerouting or extending of utilities passing through work areas which serve structures located on project site and on adjacent properties

C. Verify that utilities that are to be removed, capped or abandoned are turned off, or are disconnected, or are rerouted to new locations before starting demolition and/or excavation.

DEMOLITION (As & If Required)

A. General:

1 If departures from drawing requirements are deemed necessary by Contractor, submit details and reasons therefore to Engineer for action. Make no departures without prior written approval

2 Repair or replace all demolition work performed in excess to that required, at no cost to Owner. Repair or replacement shall match and equal construction, condition, and finish existing at time of award of contract

B. Remove following from locations to extent shown on drawings: asphalt paving, curbing and utilities.

C. Backfill and compact areas excavated and open pits and holes resulting from demolition operations. Comply with requirements specified in Section 02600, Earthwork for backfill materials, compaction, and installation methods

D. Rough grade site, within demolition areas, to meet adjacent existing contours and to provide positive drainage. Leave site in clean condition acceptable for performance of subsequent construction operations.

CLEAN-UP AND DISPOSAL

A. Transport trash, rubbish and debris daily from site and dispose of legally.

1 Remove and promptly dispose of contaminated, vermin infested, or dangerous materials encountered.
2 Do not burn or bury materials on site, unless otherwise approved by Owner or Project Engineer and local authorities having jurisdiction

B Remove tools, equipment and protections when work is complete and when authorized to do so by local authorities having jurisdiction and Owner or Project Engineer

C Remove and dispose of erosion control devices after landscaping is in place and ground cover is established at completion of project, only upon approval of the inspector

GENERAL

RELATED DOCUMENTS

A General Conditions and Supplementary Conditions apply to this section.

WORK INCLUDED:

- A General site grading.
B Trenching or excavation and backfilling for utility systems.
C Excavation and backfilling for structures

QUALITY ASSURANCE

- A All work shall comply with V D O T, City or County Standards, latest edition.
B Regulatory Requirements. Comply with applicable requirements of Federal, state, and local laws, regulations and codes having jurisdiction at project site

C. Field Quality Control:

- 1 Testing and Inspection: Contractor will obtain any day for services of an independent commercial testing laboratory for performing field quality control testing of soils during construction; tests of tests indicating non-compliance with requirements specified and retesting, including reconstruction of deficient areas, are also at Contractor's expense.
2 Refer to PART 3, article entitled Field Quality Control

SUBMITTALS

A Test Reports:
1 Field density (compaction) tests reports of each test made.
2 Optimum moisture-maximum density curves for each test.

3 California Bearing Ratio tests on pavement subgrade (see section 0252, part 3.0f.8.4)

B Fill Samples and Tests:

1 Provide for each type of fill material to be used on project, with testing results indicating compliance with requirements specified, for approval prior to start of work.

2 The Project Engineer or GCS (Geotechnical Engineering Service) shall authorize each type of fill to be used on the project as structural fill.

JOB CONDITIONS

A. Inspection.
1 Examine drawings and site for discrepancies between actual site grades and contours and those shown on drawings, before starting work. Report all discrepancies in writing to Engineer.

2 No extra compensation will be allowed at a later date for discrepancies between conditions shown on drawings and actual conditions existing at project site.

B Cooperation: Coordinate this work with the work of other Sections to avoid any delay in progress of building or any interference with progress of other work. Where required for proper construction operations, perform portions of work included in this section separate from general building excavation as directed

C Excavation Classification: All excavation to be unclassified, including removal of earth fills, rubble, trash, and other materials encountered in excavation and grading operations to depth and extent shown on drawings or specified. The Project Engineer, with recommendations from a Geotechnical Service, shall be the final authority and shall make the final decision during construction as to the depth and extent to which unsatisfactory materials must be removed and replaced.

D. Existing Utilities:

1 Locations indicated are approximate and provided for contractor's convenience only. There may be additional utilities not shown on the plans. The owner/owners, Area of Va Inc., surveyor, and engineer assume no responsibility for locations shown and it shall be the responsibility of the contractor to verify the locations of all utilities within the limits of work. Contact Miss Utility prior to excavation to verify exact locations of all existing utilities. All damage made to existing utilities shall be the sole responsibility of the Contractor. Any charges for locating utilities shall be paid by the contractor.

2 Perform exploratory tests for verification if exact locations of existing utilities are not known. Owner, surveyor and engineer will assume no responsibility for hazardous conditions, losses and accidents arising out of failure to perform test for verification.

3 Coordinate any relocation or removal of utilities with appropriate utility company, or City of Lynchburg Public Works Department.

E. Disposition of Utilities.
1 Observe rules and regulations governing respective utility during execution of work of this Section.
2 Adequately protect all active utilities from damage.

3 Remove or relocate active utilities only as shown on as specified. Notify Project Engineer, in writing, of all active utilities on-site at start of job.

4 Remove, plug or cap inactive and abandoned utilities encountered in excavating and grading operations. In absence of specific requirements, remove, plug or cap such utility lines at least 3 feet outside building walls or as required by the authorities having jurisdiction.

F. Benchmarks, Monuments and Other Reference Points. Protect from damage and displacement; if disturbed or destroyed, replace at Contractor's expense.

G. Keep dirt, dust, noise and other objectionable nuisances to a minimum

H. Barricades:
1 Furnish and maintain barricades, signs and markings for work in public right-of-way, in accordance with Virginia Department of Transportation and City of Lynchburg Public Works Department.
2 Paint and maintain barricades in good condition. Mount flashing yellow lights and maintain same.

3 Install road fence adjacent to open excavations and post with warning lights

4 Prior to commencing land disturbance activity, mark the limits of land disturbance clearly and accurately with silt fence, tree protection fence, stakes, ribbons or other appropriate means. See Section 02100, Site Preparation and Demolition for exact means and methods. The location and extent of all authorized land disturbance activity shall be designated for the duration of the construction activity. No land disturbance shall occur outside the approved limits indicated on the approved plans.

PRODUCTS

FILL AND BACKFILL MATERIALS - GENERAL

A Provide approved soil material free from roots, debris, trash, organic materials, and other deleterious materials.

STRUCTURAL "CONTROLLED FILL"

A Acceptable Materials: One or combination of following, as approved by Project Engineer.

- 1 On-Site Excavated Material
2 On-Site Excavated Material Blended With Imported Material: Acceptable when approved by Geotechnical Engineer.
3 Imported Materials

Imported materials shall be certified as being free of hazardous waste material. Contractor must notify Owner's Geotechnical Engineer of the exact location of Borrow Pits prior to importing said material from pit.

EQUIPMENT

A Provide type accepted by owner's Geotechnical Engineering Service, as suitable for use intended with proven capability to perform work in acceptable manner. Consult Geotechnical Engineer prior to use of equipment.

EXECUTION

FIELD QUALITY CONTROL

A. Testing and Inspection Services: Owner will retain the services of a Geotechnical Engineer to perform observations, inspections and testing during execution of site work. Geotechnical Engineering Services shall include, but are not limited to:

1 Visual Observation by Geotechnical Engineer. After striping the site of topsoil, organic, large root systems, trash, and demolition debris, the site is to be observed by the Geotechnical Engineer, and other localized pockets of organics, large root systems or remnants or previous construction identified should be undercut and discarded off-site

2 Proofrolling: In the presence of a Geotechnical Engineer at-grade areas and areas to receive fill should be proofrolled.

3 Contractor shall cooperate with Geotechnical Engineer and Technician to facilitate the execution of the Geotechnical Engineer duties.

4 Upon completion of excavation, the Geotechnical Engineer shall inspect and test the work and determine the suitability of the soil and preparation of subsequent site work.

5 The Geotechnical Engineer shall promptly submit to Owner or Project Engineer reports of all observations, inspections and tests.

PREPARATION

A Grading and paving drawings showing original and proposed topography. In case of conflict between final grade elevations (finish grade) shown by spot elevations and by contours, spot elevations govern.

B Dewatering.
1 Prevent ground and subsurface water from flowing into excavations, from flooding project site and surrounding properties, and from collecting and ponding unless such ponding is in connection with required erosion control. Provide and maintain all temporary drainage and dewatering system

2 Install pumps, sumps and suction and discharge lines necessary to comply with requirements specified herein

3 Install temporary deviations from grades indicated to channel water away from excavation.

4 Leave no sumps or pockets at completion of each day's grading operations

5 If water is encountered during footing and foundation excavation, install pumps of capacity to remove water while excavations are being made and continue pumping for 24 hours following placing of concrete footings and erection of foundation walls to grade. Maintain dewatering operations until construction of permanent drainage is completed

6 Contractor to be responsible for design, installation and maintenance of dewatering system specified herein

E Shoring and Bracing:
1 Install to protect slopes and earth banks from cave-ins, and to protect adjacent surfaces and structures from settlement. Remove shoring and bracing before backfilling is completed, but not before permanent supports are in place.

2 When work is interrupted by rains, do not resume operations until moisture content and field density tests of upper six inches of in-place material have been made by the Geotechnical Engineer and approved by Project Engineer

3 Contractor to be responsible for design, installation and maintenance of shoring and bracing specified herein

F Do not place fill or backfill material in water, or substances which are frozen or contain frost, or during unfavorable weather conditions

1 During periods of anticipated inclement weather, grade and soil surface of fill as required to limit percolation of surface water

2 When work is interrupted by rains, do not resume

Table with columns: REVISION, DATE, CITY COMMENTS. Includes revision 1 on 12/19/12.

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COMM. NO.: 42783. DATE: NOVEMBER 19, 2012. SEARCHED: NOVEMBER 19, 2012. SERIALIZED: NOVEMBER 19, 2012.

TAX MAP NO.: 23417003. LYNCHBURG OFFICE: 404 CLAY STREET, LYNCHBURG, VA 24504. PHONE: (434) 568-4674. FAX: (434) 849-1048.

APPROVALS: THOMAS C. BROOKS SR., L.L.C. No. 2048. EDWARD D. JONES, L.L.C. No. 027610.

PROJECT OF: Lynchburg Church Of God. DRAWING: SPECIFICATIONS. SHEET 7.

THIS SHEET IS PART OF A SET

operations until moisture content and field density tests of upper 6" of in-place materials have been made by the Geotechnical Engineer and approved by the Project Engineer.

G. Establish and identify required lines, levels, contours and datum.

H. Proofrolling

1. Perform proofrolling over entire area receiving fill material, after topsoil is removed, in presence of the Geotechnical Engineering Service

2. Make at least four passes over each area, with last two passes made perpendicular to first two passes. Use minimum 20 tons static weight rubber-tired compactor or similar type equipment for proofrolling acceptable the Geotechnical Engineer

a. Undercut and remove soft or unstable soils that fail to compact and replace with acceptable fill material. Place soil in lifts of six inches loose depth and compact each lift to density specified.

b. If construction operations soften or otherwise disturb previously proofrolled areas to an extent that they become soft and unstable or are rendered unsuitable by Project Engineer and the Geotechnical Engineer, perform additional proofrolling before starting filling operations or remove unsuitable materials to depth and extent required, and replace with approved compacted fill as specified above.

I. Following topsoil stripping and proofrolling operations, but before making cuts or placing of fill and backfill, ground surfaces to be free of all trash, debris, loose, frozen, wet or soft soil; and other undesirable surface materials before proceeding with work.

GRADING

A. Rough grade to required profiles, contours, elevations and subgrade levels shown on drawings, with allowances made for depths required for placement of topsoil and construction of paving, walks, equipment slabs or pads and floor slabs.

B. Control grading around buildings and on site; slope ground to prevent water from running into excavated areas of building or damaging other structure, and so entire project is well drained and free from water pockets

C. Provide uniform levels and slopes between elevations shown on drawings, and between elevations shown and existing finished grades shown to be maintained. Round about changes in slopes.

D. Unauthorized excavation consists of removal of materials beyond indicated subgrade elevations or dimensions without specific direction of Engineer. Unauthorized excavation, as well as remedial work directed by Engineer shall be at Contractor's expense.

CONTROLLED FILL:

A. General.

1. Project Engineer, relying on the Geotechnical Engineer test results, is sole judge as to when specified compaction densities have been obtained.

2. Contractor is responsible for correcting, at his expense and including costs of testing, all areas with insufficient compaction, remove and replace, or scarify, wet or or sinkholes (as needed), and recompact and correct deficient compacted fill.

3. Place acceptable material in horizontal lifts not exceeding 6" in these areas, with each lift extending for entire length and width of each area being filled.

4. Reduce or increase moisture content of fill by drying or uniform sprinkling with water, to achieve moisture content required for specified degree of compaction.

5. Break each layer of fill to break down oversize clods, to thoroughly mix nonuniform materials, and to assure uniform density and proper compaction

6. Maintain positive surface slope to allow runoff and to prevent ponding of surface water. If surface water ponds, dewater. Remove all obstructed or disturbed soil before placing additional fill material.

7. Number of compaction equipment passes required is dependent upon degree of compaction specified. Overlap rolling passes as required to completely cover areas of fill

8. Regardless of degree of compaction achieved, a minimum of 8 roller passes should be made in the building and pavement areas.

9. After cuts are made, scarify cut area to 9" depth and compact to required densities.

B. Structural "Controlled Fill"

1. Location: Place as subgrade under building, and covered walkways to a point 5 feet outside building walls. Place under all paved areas.

2. Construct to grades and for minimum depths indicated. Undercut existing grade as required.

3. Compact to 98% of maximum Standard Proctor Density, with the upper 9" @ 100% Standard Proctor Density. Maintain soil moisture content between 0 and 3% above optimum. Use the Geotechnical Engineer method for maintaining optimum moisture control

C. Nonstructural "Controlled Fill"

1. Location: Use for fills other than fills specified as structural "Controlled Fill"

2. Construct to grades and for minimum depths indicated. Undercut existing grade as required.

3. Compact to following densities for areas listed:

a. Subgrade Below Walks, and Slabs on Grade: 100% of Standard Proctor Density at moisture content between 0 and 3% above optimum for top 9" or otherwise.

b. Below Grassed and Planted Areas: 50% of Standard Proctor Density at optimum moisture content.

FOUNDATION AND FOOTING EXCAVATION

A. Acceptable Structural "Controlled Fill" materials.

B. Remove surface debris and debris in excavation before placing backfill.

C. Do not use fill material which is frozen or contains frost.

D. Allow footing and foundation walls to attain full design strength before placing backfill

E. Exercise care during placing and compacting equipment within 6' of walls.

1. Use hand operated compaction equipment within 6' of walls.

2. Where fill is placed along both sides of foundation walls, place and compact simultaneously on both sides of walls.

3. Repair, or remove and replace, all damage to foundation walls or structure occurring during placement and compaction operations at no additional cost to Owner

F. Coordinate placing and compaction with other trades. Do not backfill until waterproofing, waterproofing and foundation drainage system material has been installed, inspected and approved by the Engineer.

G. Compact all backfill to 98% of Standard Proctor Density, 100% within top 9". Maintain moisture content between 0 and 3% of optimum

TRENCHING AND BACKFILLING

A. All trenching excavation must comply with OSHA safety guidelines.

MAINTENANCE

A. Protection of Graded Areas

1. Protect newly graded areas from traffic and erosion. Keep free of trash and debris.

2. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerance

B. Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify surface, regrade, and compact to required density prior to further construction.

C. Settling: Where settling is measurable or observable at excavated areas during general project warranty period, remove surface pavement, lawn, or other finish, add backfill material, compact, and replace surface treatment. Restore appearance, quality, and condition of surface or finish to match adjacent work, and eliminate evidence of restoration to greatest extent possible

DISPOSAL OF EXCESS AND WASTE MATERIALS

A. Removal from Owner's Property. Remove waste materials, including unacceptable excavated material, trash and debris, and dispose of it properly.

ASPHALT PAVING

GENERAL

A. General Conditions and Supplementary Conditions apply to this section.

RELATED DOCUMENTS

A. All paving including granular base, primer, and tack

WORK INCLUDED

A. Virginia Department of Transportation and City of Lynchburg Public Works Department Specifications, latest edition.

QUALITY ASSURANCE

B. Paving Curing

1. Contractor required to make curbing of the bituminous paving and base to establish the depth of the paving layers. A minimum of one curbing per 5,000 sq'

2. Contractor to submit the location of the proposed curbing for acceptance by Project Engineer. Contractor to provide in his scope

3. The indicated depths are minimum if a core indicates undersize, the Owner or Project Engineer may require additional curbing (at no expense to the Owner) to establish the extent of the underlaying

4. If underlaying is indicated, methods of correction shall be submitted for Project Engineer's approval. Correction shall be at no expense to Owner.

5. Fill boring holes with bituminous material and seal properly.

EXECUTION

SUBGRADE PREPARATION

A. Subgrade shall be subcompacted in accord with density specified in Section 02000.

B. Fine Grading:

1. Grading and construction in strict accordance with specifications.

2. Subgrade and shoulders shall be final graded, trimmed and finished within the limits and as required by the elevations shown on the Drawings. Grading operations shall be so conducted that materials shall not be removed or loosened beyond the required limits. The finished surfaces shall be left in smooth and uniform planes.

3. The Contractor shall be solely responsible for all lines, levels and measurements for this work. He shall provide his own instruments and survey crew to maintain this control throughout the duration of his work.

4. Perform one (1) CBR Test on prepared subgrade to be tested by the engineer. Provide results of the test prior to proceeding with any work. Allow time for redesign of pavement if design CBR is not obtained.

C. Bituminous paving shall not be placed when the ambient temperature is below 40°F, or when there is frost in the base or any other time when weather conditions are unsuitable for the type of material being placed.

D. Material for spot subgrade reinforcement shall be crushed stone

E. Subgrade and Embankment Protection:

1. During construction, embankments and excavations in the areas of the paving shall be kept shaped and drained

2. Ditches and drains along the subgrade shall be maintained to drain effectively at all times.

3. Repair ruts or depressions of 1" or more in subgrade

PAVING

A. The base and surface courses shall be constructed in conformity with the provisions of this specification section; stated thicknesses are after compaction

B. Install tack in accordance with the specified standards.

C. Match surface to existing paving maintaining existing cross slopes or as shown on plans.

FINISH

A. After final rolling, no traffic shall be permitted on paving until it has cooled and hardened and in no case less than 6 hours.

B. The paved areas shall drain away from the building; no bumps or "bird baths" will be accepted

C. The black top shall be clean and free of dirt or debris ready for traffic painting after a minimum 30-day curing period.

PAVEMENT MARKING

GENERAL

QUALITY ASSURANCE

A. Virginia Department of Transportation Standards and City of Lynchburg Public Works Department, latest edition

B. "Manual on Uniform Traffic Control Devices," current edition

C. "Traffic Control Devices Handbook," current edition.

D. On-site pavement marking and signage will be installed as per plans, details, and specifications.

JOB CONDITIONS

A. Inspection

1. Examine areas for conditions under which work is to be performed. Report in writing to Project Engineer all conditions contrary to those shown on the drawings or specified herein and all other conditions that will affect satisfactory execution of work such as improperly constructed substrates or adjoining work. Do not proceed with work until unsatisfactory conditions have been corrected

2. Starting work constitutes acceptance of the conditions under which work is to be performed after such acceptance. Contractor shall at his expense, be responsible for correcting all unsatisfactory and defective work resulting from such unsatisfactory conditions.

PRODUCTS

MATERIALS

A. Paint, white and blue colors conforming to U.S. Bureau of Public Roads colors

B. Paint Types:

1. For uncurd and sealed asphalt surfaces: Water borne type, Sherwin-Williams Pro-Mar Water Borne Traffic Marking Paint

EXECUTION

PREPARATION

A. Remove all dirt, oil, grease and other foreign material from areas of pavement to be marked

B. Apply paint only on thoroughly dry surfaces, when atmospheric temperature is above 40 degrees Fahrenheit and when weather is favorable

C. Signage: As shown in plans, details, standards, and referenced specifications. Refer to architectural plans for additional requirements.

GENERAL

WATER DISTRIBUTION

QUALITY ASSURANCE

A. Applicable requirements of the following standards and codes apply:

1. All new lines shall be tested and maintain required test pressure. Chlorination and bacteriological test shall comply with the Virginia Department of Health standards. Contractor to supply and supply for all fees and testing associated with installation

2. Standard Plumbing Code.

3. Standard Building Codes.

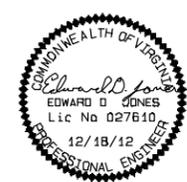
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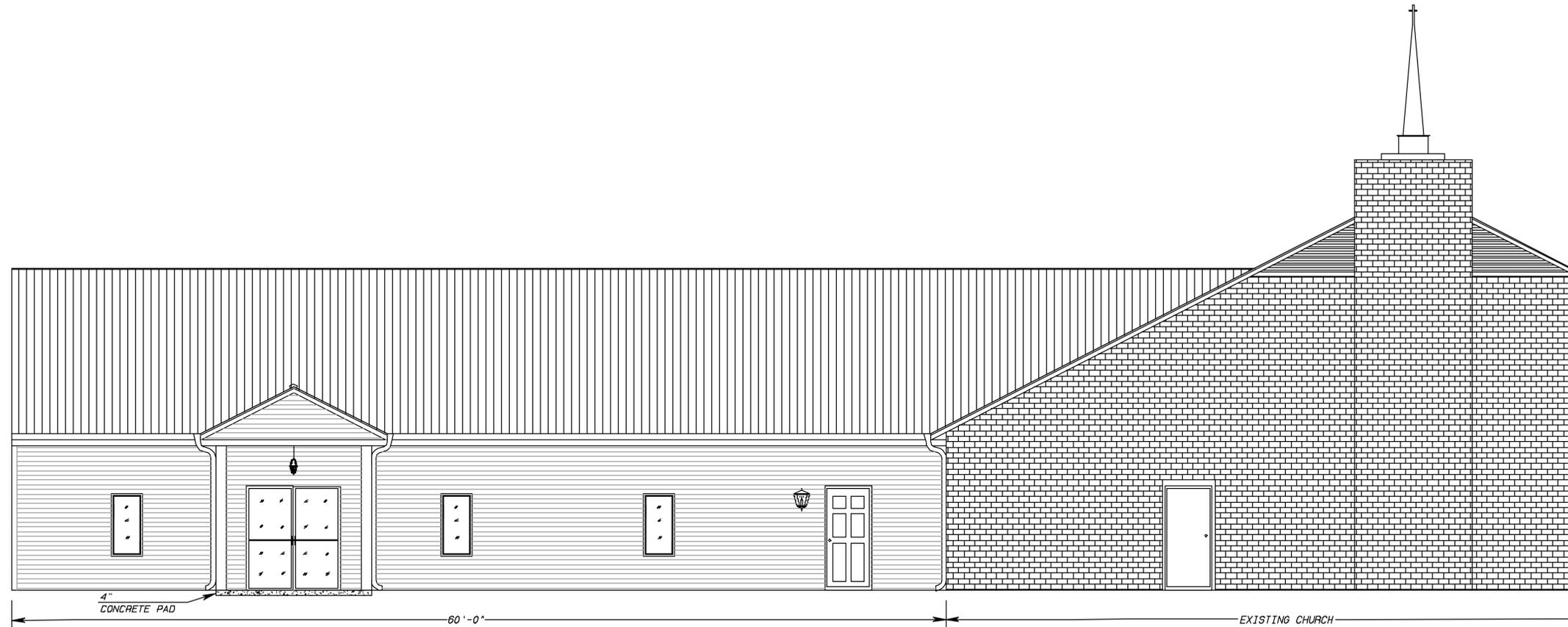
PROJECT OF Lynchburg Church of God

PROFESSIONAL ENGINEER EDWARD D. JONES Lic No 2045 12/18/12



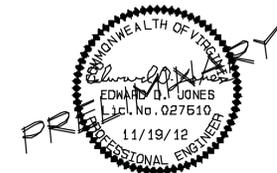
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**NORTH ELEVATION
(NEW ADDITION)**

EXISTING CHURCH



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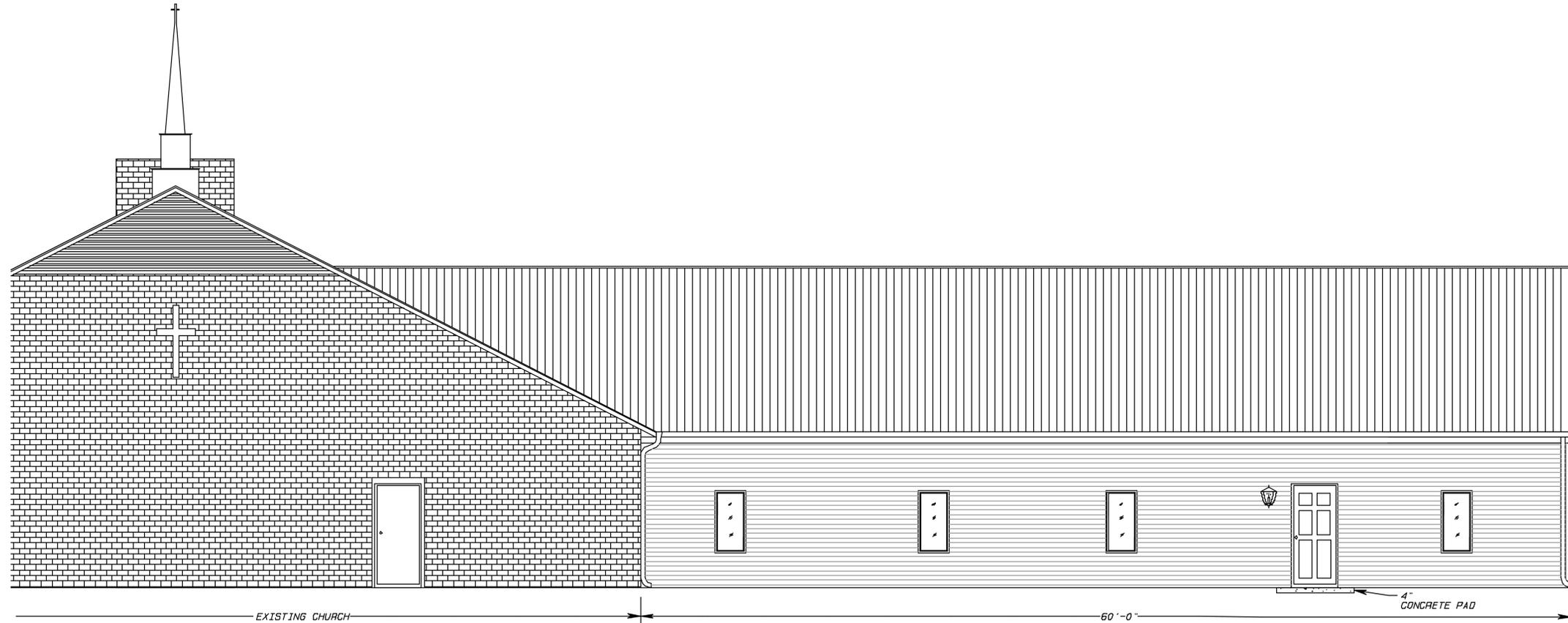
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**NORTH ELEVATION/
NEW ADDITION**

Lynchburg
Church of God
LYNCHBURG, VIRGINIA

DRAWING
NORTH ELEVATION
CA-2

REVISION	DATE
1	
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EXISTING CHURCH

60'-0"

4" CONCRETE PAD

**SOUTH ELEVATION
(NEW ADDITION)**

PREPARED BY

 EDWARD O. JONES
 Lic. No. 027610
 11/19/12
 PROFESSIONAL ENGINEER

REVISION	DATE
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**SOUTH ELEVATION/
NEW ADDITION**

**Lynchburg
Church of God**
 LYNCHBURG, VIRGINIA

DRAWING
 SOUTH ELEVATION
CA-3



CHURCH
OF
GOD