



City of Gainesville
Department of Doing
Planning Division

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CITY PLAN BOARD STAFF REPORT

PUBLIC HEARING DATE: April 26, 2018

ITEM NO: 4

PROJECT NAME AND NUMBER: Zion Evangelical Lutheran Church, PB-17-90 SUP

APPLICATION TYPE: Special Use Permit (SUP) with development plan review for a place of religious assembly.
Quasi-Judicial

CITY PROJECT CONTACT: Bedez E. Massey, Planner

RECOMMENDATION: Approve

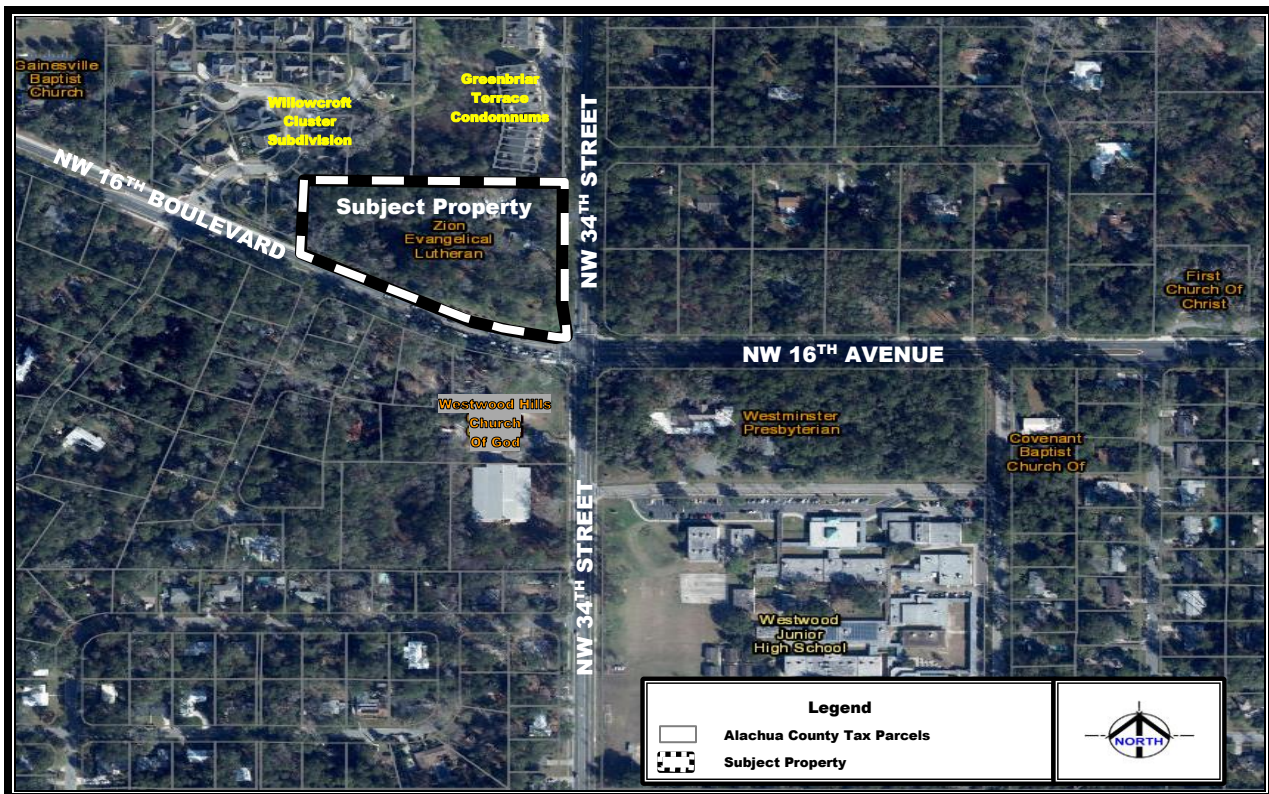


Figure 1: Location Map

APPLICATION INFORMATION:

Agent/Applicant: eda engineers – surveyors - planners, inc., Agent
Property Owner(s): Zion Evangelical Lutheran Church, Inc. of Gainesville, Florida
Related Petition(s): None
Legislative History: None
Neighborhood Workshop: Monday, April 17, 2017

SITE INFORMATION:

Address: 1700 NW 34th Street
Parcel Number(s): 06416-030-000
Acreage: ±5.0
Existing Use(s): Zion Evangelical Lutheran Church (Place of Religious Assembly)
Land Use Designation(s): Single Family (SF): up to 8 units per acre
Zoning Designation(s): Single-Family (RSF-1)
Overlay District(s): None
Transportation Mobility Program Area (TMPA): Zone B
Census Tract: 11.00
Water Management District: St. Johns River Water Management District
Special Feature(s): None
Annexed: 1961
Code Violations: There are no open cases.

PURPOSE AND DESCRIPTION:

This application is a request for a Special Use Permit (SUP) to allow a place of religious assembly as a permitted principal use on the subject property. It includes an associated development plan for the construction of a one-story, sanctuary building and other proposed improvements, such as stormwater facilities, lighting, landscape material, and pedestrian walkways. Accessory uses that are specially regulated, such as daycare centers, schools, food distribution centers for the needy and residences for destitute people, are not proposed.

According to the associated development plan in Appendix E, most of the existing trees, shrubs and groundcover on the subject property will be preserved. The existing church will also be maintained and converted into office, meeting and recreational space. The new sanctuary building will be constructed just south of the existing church. An existing aluminum shed will be kept at the rear of the subject property, so that it is less visible from the public right-of-way. The paved vehicular use area will be expanded to provide more parking spaces and a new driveway connection on NW 16th Boulevard.

The subject property is located on the northwest corner of the NW 34th Street and NW 16th Boulevard intersection, as shown in Figure 1. A single-family dwelling unit is located on the northeast corner of the intersection. Places of religious assembly are located on the southeast and southwest corners of the intersection. Lots with attached (condominiums) abut on the north. Lots with detached single-family dwelling units abut on the north and west. NW 16th Boulevard, a County-maintained arterial, abuts on the south. NW 34th Street, a State-maintained arterial, abuts on the east. Single-family residential development and places of religious assembly are the primary uses on adjacent properties. (See Table 1.)

ADJACENT PROPERTY CHARACTERISTICS:

Table 1. Existing Land Use and Zoning Designations

	EXISTING USE(S)	LAND USE DESIGNATION(S)	ZONING DESIGNATION(S)
North	Residential Condominiums	Planned Use District (PUD)	Planned Development (PD)
	Residential Dwellings	Single Family (SF): up to 8 units per acre	Single-Family (RSF-1)
South	NW 16 th Blvd Right-of-Way	N/A	N/A
	Place of Religious Assembly / Residential Dwellings	Single Family (SF): up to 8 units per acre	Single-Family (RSF-1)
East	NW 34 th Street Right-of-Way	N/A	N/A
	Residential Dwellings	Single-Family (SF): up to 8 units per acre	Single-Family (RSF-1)
West	Residential Dwellings	Single-Family (SF): up to 8 units per acre	Single-Family (RSF-1)

STAFF ANALYSIS AND RECOMMENDATION:

The following is an analysis of this application and a recommendation based on the review criteria provided in Section 30-3.24 of the City Land Development Code:

ANALYSIS

A. The proposed use or development is consistent with the Comprehensive Plan and the Land Development Code.

According to Future Land Use Element, Policy 4.1.1, the Single-Family (SF): up to 8 units per acre land use designation on the subject property allows community-level institutional facilities, such as places of religious assembly (see Exhibit A-1). The Single-Family (RSF-1) zoning district on the subject property allows places of religious assembly by Special Use Permit (SUP) in accordance with the use standards in Sec. 30-5.21 of the City Land Development Code (see Exhibit B-1). The applicant is requesting a Special Use Permit (SUP) for a place of

religious assembly, and the City's Technical Review Committee (TRC) finds the proposed use and development approvable, subject to compliance with all applicable regulations and the conditions recommended in Appendix C.

B. The proposed use or development is compatible with the existing land use pattern and future uses designated by the Comprehensive Plan. Factors by which the compatibility of the proposed use or development shall be reviewed include scale, height, mass and bulk, design, intensity, and character of activity.

Places of religious assembly are a part of the existing land use pattern that surrounds the subject property. According to Future Land Use Element, Policy 4.1.1, places of religious assembly are permitted on properties with a Single-Family (SF): up to 8 units per acre land use designation. Factors used to determine the compatibility of the proposed use and development that include scale, height, mass and bulk, design, intensity, and character of activity are within the Land Development Code. The City Technical Review Committee (TRC) has considered these factors in reviewing the proposed use and development and finds them approvable, subject to compliance with all applicable regulations and the conditions recommended in Appendix C.

C. The proposed use will not adversely affect the health, safety, and welfare of the public.

The proposed use is not expected to adversely affect the health, safety, and welfare of the public, given the applicant's written response to the City's General Performance Standards in Sec. 30-8.2 of the City Land Development Code (see Exhibit D-8). Future Land Use Element, Policy 4.1.1, identifies places of religious assembly as appropriate community-level institutional facilities on properties with a Single-Family (up to 8 units per acre) land use designation.

D. Ingress and egress to the property, proposed structures, and parking/loading/service areas is provided and allows for safe and convenient automobile, bicycle, and pedestrian mobility at the site and surrounding properties.

The City's Public Works Department, Traffic Studies Division, has approved the associated development plan (see Appendix C). The development plan calls for a two-directional driveway connection on NW 34th Street and NW 16th Boulevard. Parking spaces are proposed for vehicles and bikes along sidewalks and near building entrances. A covered walkway is proposed that will connect the existing church building to the new sanctuary and connect these buildings to the designated off-street parking area. Open sidewalks that connect to sidewalks in the adjoining public rights-of-way are also proposed. Sidewalk connections to private property are not proposed due to topography and the distance separating the development area from adjoining tax parcels.

E. Off-street parking, service, and loading areas, where required, will not adversely impact adjacent properties zoned for single-family residential use.

The City's Public Works Department, Traffic Studies Division, has approved the off-street parking, service, and loading areas illustrated on the associated development plan, as indicated in Appendix C. Therefore, these facilities are not expected to adversely impact adjacent properties zoned for single-family residential use.

F. Noise, glare, exterior lighting, or odor effects will not negatively impact surrounding properties.

The proposed use and development is not expected to negatively impact surrounding properties, in regard to noise, glare, exterior lighting, or odor effects, given staff's review and the applicant's written response to the City's General Performance Standards in Sec. 30-8.2 of the City Land Development Code (see Exhibit D-8). However, prior to receiving a final development order, the applicant must submit a photometric plan that is complete and shows compliance with all applicable requirements. (See Appendix C.)

G. There is adequate provision for refuse and service/loading areas, and these areas shall be reviewed for access, screening, location on the site, and pedestrian/bicycle mobility and safety. Outdoor storage or display areas, if included, will not adversely impact surrounding properties and shall be reviewed for screening and location on the site.

The City's Public Works Department, Solid Waste Division, has approved the associated development plan, in regard to the location and size of a new concrete pad that will be used to store solid waste disposal facilities on the subject property. The pad will be located in excess of 70 feet from adjoining single-family residential properties and the public right-of-way to reduce visibility. It will also be screened with an opaque enclosure at least 6 feet in height. The details of the screened enclosure are required on the associated development plan, prior to the issuance of a final development order. Outdoor storage is not proposed.

H. Necessary public utilities are available to the proposed site and have adequate capacity to service the proposed use or development.

The electric, gas, and water/wastewater divisions of Gainesville Regional Utilities (GRU) have approved this application, which indicates that necessary public utilities with adequate capacity are available to service the proposed use and development. The location and width of required utility easements must be illustrated on the associated development plan, prior to the issuance of a final development order. (See Appendix C.)

I. Screening and buffers are proposed of such type, dimension, and character to improve compatibility and harmony of the proposed use and structure with the uses and structures of adjacent and nearby properties.

The proposed use and structure will comply with the screening and buffer requirements of the Land Development Code, which are considered adequate for protecting adjacent and nearby properties. The screening and buffer requirements include street trees, perimeter and interior landscape material for vehicular use areas, and an opaque enclosure for solid waste disposal facilities. A compatibility buffer is not required between properties with a Single-Family (SF): up to 8 units per acre land use designation.

J. The hours of operation will not adversely impact adjacent properties zoned for single-family residential use.

Given the applicant's letter addressing the City's general performance standards in Appendix D, the hours of operation are not expected to adversely impact adjacent properties zoned for single-family residential use.

K. Any special requirements set forth in the Land Development Code for the particular use involved are met.

The proposed use and development are in compliance with the special requirements for places of religious assembly in Sec. 30-5.21, pending compliance with all applicable regulations and the conditions recommended in Appendix C.

RECOMMENDATION

Staff recommends approval of Petition PB-18-90 SUP, subject to compliance with all applicable regulations and the conditions recommended in Appendix C.

DRAFT MOTION FOR CONSIDERATION

I move to approve Petition PB-17-90 SUP, subject to compliance with all applicable regulations and the conditions recommended in Appendix C.

BACKGROUND:

According to data obtained from the Alachua County Property Appraiser's Office, the existing church building was constructed circa 1976. This petition was first submitted in 2017 under the former Land Development Code, which required a maximum building height of 35 feet for properties zoned RSF-1 (Single-family residential district). The applicant resubmitted revised drawings in 2018 to eliminate a bell tower and to comply with a maximum 3-story

building height in the current Land Development Code. The proposed sanctuary building is now shown on the associated development plan to be 54 feet - 6 inches.

POST- APPROVAL REQUIREMENTS:

The applicant must submit all required documents, meeting board-approved conditions, to the City Planning Division on a designated resubmittal date. Once it is determined that all submittal requirements and board-approved conditions have been met, the applicant can be issued a final development order in conjunction with the requested Special Use Permit (SUP).

LIST OF APPENDICES:

Appendix A Comprehensive Plan Goals, Objectives and Policies

Exhibit A-1: Future Land Use Element, Policy 4.4.1

Appendix B Land Development Code

Exhibit B-1: Section 30-3.24. Review Criteria.

Exhibit B-2: Section 30-5.21. Places of Religious Assembly.

Exhibit B-3: Section 30-8.2. General Environmental Performance Standards.

Appendix C Technical Review Committee (TRC) Conditions

Appendix D Application Documents

Exhibit D-1: Drainage Calculations

Exhibit D-2: Concurrency Application

Exhibit D-3: Concurrency Map

Exhibit D-4: Cover Letter

Exhibit D-5: ePlan Review Application w/ GRU Checklist

Exhibit D-6: Lighting Fixture Data

Exhibit D-7: Neighborhood Meeting Package

Exhibit D-8: General Performance Standards Letter

Exhibit D-9: Property Ownership Documents

Exhibit D-10: Rain Collection System

Exhibit D-11: Special Use Permit Application

Exhibit D-12: Special Use Permit Justification Report

Exhibit D-13: Sign Affidavit

Appendix E Development Plan

Appendix A

Comprehensive Plan Goals, Objectives and Policies



Policy 3.6.2 Wherever possible, the natural terrain, drainage, and vegetation of the city should be preserved with superior examples contained within parks or greenbelts.

Policy 3.6.3 To the extent feasible, all development shall minimize alteration of the existing natural topography.

GOAL 4 THE FUTURE LAND USE ELEMENT SHALL FOSTER THE UNIQUE CHARACTER OF THE CITY BY DIRECTING GROWTH AND REDEVELOPMENT IN A MANNER THAT: USES NEIGHBORHOOD CENTERS TO PROVIDE GOODS AND SERVICES TO CITY RESIDENTS; PROTECTS NEIGHBORHOODS; DISTRIBUTES GROWTH AND ECONOMIC ACTIVITY THROUGHOUT THE CITY IN KEEPING WITH THE DIRECTION OF THIS ELEMENT; PRESERVES QUALITY OPEN SPACE; AND PRESERVES THE TREE CANOPY OF THE CITY. THE FUTURE LAND USE ELEMENT SHALL PROMOTE STATEWIDE GOALS FOR COMPACT DEVELOPMENT AND EFFICIENT USE OF INFRASTRUCTURE.

Objective 4.1 The City shall establish land use categories that allow sufficient acreage for residential, commercial, mixed-use, office, industrial, education, agricultural, recreation, conservation, public facility, and institutional uses at appropriate locations to meet the needs of the projected population and that allow flexibility for the City to consider unique, innovative, and carefully construed proposals that are in keeping with the surrounding character and environmental conditions of specific sites. Land use categories associated with transect zones are intended to encourage a more efficient and sustainable urban form by allowing a range of housing, employment, shopping and recreation choices and opportunities in a compact area of the City.

Policy 4.1.1 Land Use Categories on the Future Land Use Map shall be defined as follows:

Single-Family (SF): up to 8 units per acre

This land use category shall allow single-family detached dwellings at densities up to 8 dwelling units per acre. The Single-Family land use category identifies those areas within the City that, due to topography, soil conditions, surrounding land uses and development patterns, are appropriate for single-family development. Land development regulations shall determine the performance measures and gradations of density. Land development regulations shall specify criteria for the siting of low-intensity residential facilities to accommodate special need populations and appropriate community-level institutional facilities such as places of religious assembly, public and private schools other than institutions of higher learning, and libraries. Land development regulations shall allow home occupations in conjunction with single-family dwellings under certain limitations.

Appendix B

Land Development Code

1

2 **DIVISION 5. SPECIAL USE PERMITS**3 **Section 30-3.22. Purpose.**

4 It is the intent of this division to recognize and permit certain uses and developments that require
5 special review, and to provide the standards by which the applications for permits for uses and
6 development shall be evaluated. It is further intended that Special Use Permits be required for
7 developments that, because of their inherent nature, extent, and external effects, require special care in
8 the control of their location, design, and methods of operation in order to ensure conformance with the
9 Comprehensive Plan and this chapter.

10 **Section 30-3.23. Required.**

11 The applicable uses listed in Article IV may be established in that zoning district only after issuance and
12 recordation of a Special Use Permit by the City Plan Board.

13 **Section 30-3.24. Review Criteria.**

14 No Special Use Permit shall be approved by the City Plan Board unless the following findings are made
15 concerning the proposed special use. The burden of proof on the issue of whether the development, if
16 completed as proposed, will comply with the requirements of this chapter remains at all times on the
17 applicant.

- 18 A. The proposed use or development is consistent with the Comprehensive Plan and the Land
19 Development Code.
- 20 B. The proposed use or development is compatible with the existing land use pattern and future uses
21 designated by the Comprehensive Plan. Factors by which compatibility of the proposed use or
22 development shall be reviewed include scale, height, mass and bulk, design, intensity, and character
23 of activity.
- 24 C. The proposed use will not adversely affect the health, safety, and welfare of the public.
- 25 D. Ingress and egress to the property, proposed structures, and parking/loading/service areas is
26 provided and allows for safe and convenient automobile, bicycle, and pedestrian mobility at the site
27 and surrounding properties.
- 28 E. Off-street parking, service, and loading areas, where required, will not adversely impact adjacent
29 properties zoned for single-family residential use.
- 30 F. Noise, glare, exterior lighting, or odor effects will not negatively impact surrounding properties.
- 31 G. There is adequate provision for refuse and service/loading areas, and these areas shall be reviewed
32 for access, screening, location on the site, and pedestrian/bicycle mobility and safety. Outdoor
33 storage or display areas, if included, will not adversely impact surrounding properties and shall be
34 reviewed for screening and location on the site.
- 35 H. Necessary public utilities are available to the proposed site and have adequate capacity to service
36 the proposed use or development.
- 37 I. Screening and buffers are proposed of such type, dimension, and character to improve compatibility
38 and harmony of the proposed use and structure with the uses and structures of adjacent and nearby
39 properties.

- 1 J. The hours of operation will not adversely impact adjacent properties zoned for single-family
2 residential use.
- 3 K. Any special requirements set forth in the Land Development Code for the particular use involved are
4 met.

Section 30-3.25. Review Procedures.

- 6 A. *Pre-application meeting.* A pre-application meeting is not required; however, the applicant is
7 encouraged to attend a meeting with staff to review applicable procedural and regulatory
8 requirements.
- 9 B. *Applications.* Each application shall be filed with the City Manager or designee on the form
10 prescribed. Any incomplete applications will be returned to the applicant. The application shall
11 include proof of having met the requirements of a neighborhood workshop as provided in this
12 article.
- 13 C. *Staff meeting.* The applicant for a Special Use Permit shall meet with city staff to discuss the
14 procedures and requirements and to consider the elements of the proposed use and site and the
15 proposed site layout.
- 16 D. *Staff report.* The City Manager or designee shall submit to the City Plan Board a written report that
17 includes analysis of the application and a recommendation based on the review criteria provided in
18 this division.
- 19 E. *City Plan Board hearing.*
 - 20 1. The City Plan Board shall consider the evidence presented in the public hearing and the written
21 report submitted by the City Manager or designee and shall act on the application based on the
22 review criteria provided in this division.
 - 23 2. Action on the application shall be one of the following:
 - 24 a. Approval;
 - 25 b. Approval subject to conditions; or
 - 26 c. Denial, with a statement of the reasons for denial.
- 27 F. *Effect of denial or withdrawal.* No application for a Special Use Permit may be submitted within two
28 years after the date of denial or withdrawal of a request for the same use for the same property.
29 The City Plan Board may waive this time limitation by the affirmative vote of five members, provided
30 30 calendar days have elapsed and provided the City Plan Board deems such action necessary to
31 prevent an injustice.
- 32 G. *Amended application.* Amendment of an application may be allowed at any time prior to or during
33 the public hearing, provided that no such amendment shall be such as to make the case different
34 from its description in the notice of public hearing. If the amendment is requested by the applicant
35 after notice of the hearing has been given and such amendment is at variance with the information
36 set forth in the notice, then the applicant shall pay an additional fee in the same amount as the
37 original fee for amended public notice. If the amended notice can be mailed at least 10 calendar
38 days prior to the hearing originally scheduled, the hearing on the amended petition may be held on
39 that date; otherwise, the chairperson shall announce at the public hearing that the hearing will be
40 continued to a future meeting with proper public notice.

- 1 1. Additional screening may be required to visually shield the use from the public right-of-way.
- 2 2. No merchandise, equipment, machinery, materials, motor vehicles or other items shall be
- 3 stored above the height of the landscape buffer strip.
- 4 B. *Hazardous materials*. Compliance with the county hazardous materials code is required.

5 Section 30-5.20. Parking, Surface.

- 6 Surface parking lots as a temporary use are allowed in the U9 and DT districts subject to special use
- 7 permit approval and the following requirements:
 - 8 A. Surface parking shall be permitted only when the surface parking will be replaced with either a
 - 9 building or structured parking in accordance with an approved master plan.
 - 10 B. Surface parking shall be paved.
 - 11 C. Surface parking shall have either perimeter landscaping or perimeter garden walls in accordance
 - 12 with the landscape regulations as provided in this Land Development Code.
 - 13 D. Surface parking shall be in compliance with all lighting and stormwater regulations in this Land
 - 14 Development Code.
 - 15 E. Any special use permit approved pursuant to this section shall be valid for a period not to exceed 5
 - 16 years. The City Plan Board may extend a special use permit approved under this section for an
 - 17 additional period not to exceed 5 years if the applicant demonstrates that development in
 - 18 accordance with the approved master plan has commenced.

19 Section 30-5.21. Places of Religious Assembly.

- 20 A. Within the RSF-1, RSF-2, RSF-3, RSF-4 and U1 districts, places of religious assembly are allowed upon
- 21 the granting of a special use permit, subject to the following additional dimensional requirements:
 - 22 1. Minimum lot area shall be one acre for each place of religious assembly with a building code
 - 23 capacity of 100 persons or less plus an additional one-half ($\frac{1}{2}$) acre for each additional 50
 - 24 persons of building code capacity.
 - 25 2. Minimum yard setbacks:
 - 26 a. Front: 25 feet.
 - 27 b. Side, interior: 50 feet, unless the proposed use is adjacent to a non-residential district, in
 - 28 which case the district setbacks shall apply.
 - 29 c. Side, street: 25 feet.
 - 30 d. Rear: 50 feet, unless the proposed use is adjacent to a non-residential district, in which case
 - 31 the district setbacks shall apply.
- 32 B. *Day care centers and schools as accessory uses*. Within the RSF-1, RSF-2, RSF-3, RSF-4 and U1
- 33 districts, day care centers and schools may be allowed as accessory uses to places of religious
- 34 assembly upon the granting of a special use permit; within all other districts, day care centers and
- 35 schools are permitted accessory uses to any lawful place of religious assembly provided, in all cases,
- 36 that the requirements and limitations for day care centers and schools as listed in this article are
- 37 met.

- 1 34. To encourage development and preservation of a network of greenway transportation corridors
- 2 throughout the city and county;
- 3 35. To provide safe, convenient, scenic, historic and nonmotorized transportation linkages between
- 4 land uses;
- 5 36. To provide wildlife corridors, and other forms of environmental conservation and environmental
- 6 education;
- 7 37. To provide for recreation and access to recreation;
- 8 38. To provide greenway buffering to protect environmental features and neighborhoods from
- 9 nearby land uses;
- 10 39. To preserve biological diversity and viable populations of special protection species dependent
- 11 on upland, transitional and wetland ecological communities;
- 12 40. To ensure adequate, safe, economic, reliable and environmentally sound water and wastewater
- 13 utility services for the public;
- 14 41. To promote economic development in a manner that will enhance the quality of life;
- 15 42. To diminish the severity and frequency of southern pine beetle outbreaks in Gainesville by
- 16 reducing the density of loblolly pines in urban areas;
- 17 43. To preserve high quality heritage trees, especially where they occur within 20 feet of the public
- 18 right-of-way; and
- 19 44. To favor replanting with native species of high quality shade trees, including requiring such trees
- 20 to be planted in locations that will reintroduce seed sources to adjacent natural communities.

Section 30-8.2. General Environmental Performance Standards.

- 22 A. *Applicability.* All uses and activities permitted in any zoning district shall conform to the standards of
- 23 performance described in this section.
- 24 B. *Showing of probable compliance.* Uses and activities required to comply with this section shall make
- 25 a showing of probable compliance with the performance standards described in this section. This
- 26 showing shall be in the form of a letter submitted with a zoning compliance permit or development
- 27 plan, as applicable, prepared by a professional engineer licensed by the State of Florida, certifying
- 28 that the use or activity complies with all performance standards described in this section.
- 29 1. *Fire and explosion hazards.* All activities and all storage of flammable and explosive materials or
- 30 products at any place shall be provided with adequate safety devices against the hazards of fire
- 31 and explosion, including adequate firefighting and fire suppression equipment, as prescribed by
- 32 the fire prevention code adopted in Chapter 10 of the Code of Ordinances.
- 33 2. *Radiation.* All sources of ionizing radiation shall be registered or licensed by the Florida
- 34 Department of Health. The handling of radioactive materials, the discharge of such materials
- 35 into air or water, and the disposal of radioactive wastes shall be in conformance with applicable
- 36 state and federal regulations.
- 37 3. *Electromagnetic radiation.* Electromagnetic radiation generated by activities shall not adversely
- 38 affect any operation or equipment other than those of the creation of the radiation.
- 39 Interference with radio and television reception is prohibited. Equipment or activities generating

- 1 electromagnetic radiation shall conform to the regulations of and, where appropriate, be
 2 licensed by the Federal Communications Commission.
- 3 4. *Waste disposal.* All waste disposal including discharge of any liquid or solid waste into any public
 4 or private sewage system, the ground, or any lake, creek, or wetland shall be in accordance with
 5 state, federal, and local law and applicable regulations of state, federal and local agencies.
- 6 5. *Vibration.* No use shall at any time create earth-born vibration which when measured at the
 7 boundary property line of the source operation exceeds the maximum allowable peak particle
 8 velocity set forth below. Ground vibration shall be measured as particle velocity using
 9 accelerometers. Particle velocity shall be recorded in three mutually perpendicular directions.
 10 The maximum allowable peak particle velocity shall apply to each of the three measurements.

Frequency (Cycles per Second)	Maximum Peak Particle Velocity (Inches Per Second)
0 to 10	0.05
10 to 19	0.50
20 to 29	1.00
30 to 39	1.50
40 and over	2.00

- 11
- 12 6. *Sound.* All uses and activities shall not exceed the sound pressure levels set forth in Chapter 15
 13 of the Code of Ordinances.
- 14 7. *Heat, cold, dampness or movement of air.* Activities on any property which produce any adverse
 15 effect on the temperature, motion or humidity of the atmosphere beyond the lot lines are not
 16 permitted.
- 17 8. *Odor.* No use shall be operated in any zoning district in such a manner that the emission of
 18 odorous matter occurs in such quantity or volume as to produce a nuisance, source of
 19 discomfort, or hazard beyond the bounding property lines of such a use. For the purpose of this
 20 performance standard, the presence of such a described odor shall be determined by
 21 observation by a person or persons designated by the City Manager or designee. In any case,
 22 where the operator of an odor-emitting use may disagree with the enforcing officer where
 23 specific measurement of odor concentration is required, the method and procedures specified
 24 by the American Society for Testing and Materials (ASTM) E679 and E1432, entitled "Standard
 25 Practice for Determination of Odor and Taste Thresholds By a Forced-Choice Ascending
 26 Concentration Series Method of Limits" and "Standard Practice for Defining and Calculating
 27 Individual and Group Sensory Thresholds for Forced-Choice Data Sets of Intermediate Size,"
 28 respectively. The operator and the city shall equally share the cost of conducting the more
 29 elaborate ASTM E679 Procedure.
- 30 9. *Air quality.* All development shall maintain air quality levels that comply with state and national
 31 ambient air quality standards.
- 32 10. *Air pollution emissions.* No industrial operation or use shall cause, create, or allow the emission
 33 of air contaminants which at the emission point or within the bounds of the property are in
 34 violation of the standards specified by the Florida Department of Environmental Protection, or

1 successor agency, or any governmental entity with regulatory jurisdiction, whichever standards
2 are more stringent.

3 11. *Other air pollution.* Open storage and open processing operations, including on-site
4 transportation movements, which are the source of windblown or airborne dust or other
5 particulate matter; or which involve dust or other particulate air contaminant generating
6 equipment including but not limited to paint spraying, grain or seed handling, sand or gravel
7 processing or storage or sand blasting shall be conducted such that dust and other particulate
8 matter so generated are not transported across the boundary property line or the tract on
9 which the use is located in concentrations exceeding standards set by the Florida Department of
10 Environmental Protection, or successor agency, or any governmental entity with regulatory
11 jurisdiction, whichever standards are more stringent.

12 12. *Toxics.* No industrial operation or use shall emit toxic or noxious matter at a concentration
13 exceeding ambient air quality standards for the State of Florida across the property line of the
14 parcel on which the operation or use is located. Where toxic materials are not listed in the
15 ambient air quality standards of the state, concentrations shall not exceed 1% of the threshold
16 limit values (TLVs) adopted by the American Conference of Governmental Industrial Hygienists
17 (ACGIH). If a toxic substance is not listed by the ACGIH, verification of safe levels of the proposed
18 toxic material for public health, plant and animal life will be required.

19 C. *Utility service.* All utility services, including but not limited to those of franchised utilities, electric
20 power and light, telephone, cable services, water, sewer and gas, shall be installed beneath the
21 surface of the ground, unless the City Manager or designee determines that the soil, topography
22 and other compelling condition makes it unreasonable or impractical. The subsurface mounting of
23 incidental appurtenances, including but not limited to transformer boxes or pedestal-mounted
24 boxes for the provision of utilities, electric meters, back flow preventers and fire hydrants, is not
25 required.

27 DIVISION 2. TREES AND LANDSCAPE

28 Section 30-8.3. Elements of Compliance.

29 All property within the city shall be subject to the following regulations, except as exempted by
30 Subsection B below. No parcel within the city may be cleared, grubbed, filled or excavated, nor shall any
31 building be demolished, altered or reconstructed in a manner that negatively impacts regulated trees,
32 changes the site plan, site use or increases the impervious surface area except in compliance with this
33 article. Requirements of these sections do not exempt property owners from compliance with any other
34 section of this chapter.

35 A. *Minimum requirements for landscaped areas.* All areas designed to meet the requirements of these
36 sections shall comply with the following:

- 37 1. Street trees shall be provided a minimum rootzone volume of 700 cubic feet, except street trees
38 that share a rootzone volume shall require a minimum of 550 cubic feet. All other required
39 shade trees shall be provided a minimum of 420 cubic feet of rootzone volume. Where existing
40 conditions preclude the provision of the minimum rootzone volume, the reviewing board or City
41 Manager or designee may approve a lesser volume that meets the arboriculture needs of the
42 tree within the existing conditions. Underground utility lines shall not be located within the
43 rootzone volume, except for those lines that are four-inch diameter or less, and then only where

Appendix C

Technical Review Committee (TRC) Conditions

Department Review Status Report

Project Name: Zion Evangelical Lutheran Church, PB-17-90 SUP
 Application Type: Special Use Permit (SUP) with Development Plan Review for a Place of Religious Assembly
 Public Hearing Date: 4/26/2018 0.00

Cycle	Department	Reviewer	Email	Status	Reviewed Comments	Applicant Comments
	Alport					
	Alachua County EPD	Gus Ormos	gus@alachuacounty.us	Approved		
	Building - Electrical	Eric Brunn	brunne@cityofgainesville.org	No Review Required		
	Building - Fire Protection	Dan Starbuck	starbuckd@cityofgainesville.org	No Review Required		
	Building - Mechanical	Linda Patrick	patrickl@cityofgainesville.org	Corrections Required		
	Building - Plumbing	Eric Brunn	brunne@cityofgainesville.org	No Review Required		
	Building Coordinator	John Lato	latoj@cityofgainesville.org	No Review Required		
	Code Enforcement	Chris Cooper	cooperc@cityofgainesville.org	No Review Required		
	Community	Andrew Meeker	meekera@cityofgainesville.org	No Review Required		
	Redevelopment Agency	Mark Brown	brownmm@cityofgainesville.org	Approved		
	Environmental	Tom Burgett	burgettta@cityofgainesville.org	Corrections Required		
	Gainesville Fire Rescue Department					
	Gainesville Police Department					
	GRU New Services Department	Wendy Mercer	MercerWL@gru.com	Assign Only		
	Historic Preservation	Jason Simmons	simmonsja@cityofgainesville.org	No Review Required		
	Flamers	Bened Massy	massyb@cityofgainesville.org	Corrections Required		
	Public Works - Design	Rick Meizer	meizer@cityofgainesville.org	Corrections Required		
	Public Works - Construction	Matt Williams	williamsm@cityofgainesville.org	Corrections Required		
	Public Works - Back Up	David Orce	OrceDR@cityofgainesville.org	Approved		
	Public Works - Solid Waste	Steve Joplin	joplinsh@cityofgainesville.org	Approved		
	Public Works - Stormwater	Mary Frieg	FriegMC@cityofgainesville.org	Corrections Required		
	Public Works - Survey	Pat Durbin	durbinp@cityofgainesville.org	Approved		
	Public Works - Traffic Studies	Debbie Leikstner	leikstnerd@cityofgainesville.org	Approved		
	RTS	Jesus Gomez	gomezjm@cityofgainesville.org	Approved		
	SURVHD					
	Transportation Mobility	Jason Simmons	simmonsja@cityofgainesville.org	Corrections Required		
	Urban Forestry	Earline Lührman	luhrmane@cityofgainesville.org	Corrections Required		
	Electric West	Keith Wheeler	WheelerKW@gru.com	Corrections Required		
	Gas	Rand Larsen	larsens@gru.com	Approved		
	GRUCom	Michael Chappell	chappellm@gru.com	No Review Required		
	GRUCom	Curtis Spencer	spencerc@gru.com	Approved		
	GRUCom	Curtis Spencer	spencerc@gru.com	Approved		
	Real Estate	Ann Mullins	mullinsan@gru.com	Corrections Required		
	Right of Way Permit - GRU Real Estate	Jennifer Rushing	RushingJR@gru.com	Approved		
	Water-Waste Water	Christina DesStevens	desstevensc@gru.com	Corrections Required		
	Water-Waste Water	Russ Ingram	ingramr@gru.com	Corrections Required		



Department Review Status Report

Project Name: Zion Evangelical Lutheran Church, PB-17-90 SUP

Application Type: Special Use Permit (SUP) with Development Plan Review for a Place of Religious Assembly

Public Hearing Date: 4/26/2018

Cycle	Department	Reviewer	Email	Status	Reviewer Comments	Applicant Comments
2	Alachua County EPD	Gus Olmos	gus@alachuacounty.us	Approved		
	Building - Mechanical	Linda Patrick	lpatick@cityofgainesville.org			
	Gainesville Fire Rescue Department	Tom Burgell	tburgella@cityofgainesville.org	Corrections Required	Request for remote FDC on the utility sheet.	
	Gainesville Police Department	Forrest Eddleton	eddletonf@cityofgainesville.org	Corrections Required	Photometric reviews will be conducted through Planning for the remainder of the project.	
	GRU New Services Department	Wendy Mercer	MercerWV@gru.com	Assign Only		
	Electric West	Keith Wheeler	WheelerKM@gru.com	Approved		
	Gas	Rand Larsen	larsens@gru.com	Approved		
	Real Estate	Ann Mullins	mulinsam@gru.com	Corrections Required		
	Water/Waste Water	Russ Ingram	ingamm@gru.com	Approved		
	Water/Waste Water	Barbara Misener	MISEIBRB@gru.com	Approved		
	Planners	Ebeez Massey	masseyeb@cityofgainesville.org	Corrections Required		
	Public Works - Design	Rick Melzer	melzerra@cityofgainesville.org	Approved		
	Public Works Constructability	Matt Williams	williamsm@cityofgainesville.org	Approved		
	Public Works Stormwater	Mary Frieg	FriegMC@cityofgainesville.org	Corrections Required	Questions from calculations: Explain how the CN for the building is 39. Please delineate the post developed drainage areas (DA-1 and DA-2) in the calculations. Please answer my questions on sheet C2.00.	
	Transportation Mobility	Jason Simmons	simmonsja@cityofgainesville.org	Corrections Required		
	Water/Waste Water	Barbara Misener	MISEIBRB@gru.com	Approved		
	Urban Forestry	Erick Smith	SmithED@cityofgainesville.org	Corrections Required		

Appendix D

Application Documents

DRAINAGE DESIGN NOTES
ZION EVANGELICAL LUTHERAN CHURCH
1700 NW 34TH ST



Engineer of Record:
Sergio J. Reyes, P.E.
Cert No. 47311

Engineer Intern:
Meagan Dickey, E.I.

Submitted to:

City of Gainesville

Submitted: March 16, 2018

Prepared By:

eda engineers surveyors planners, inc.
2404 NW 43rd St
Gainesville, FL 32606



engineers • surveyors • planners

DRAINAGE DESIGN NOTES

Zion Evangelical Lutheran Church

March 16, 2018

Professional Engineer of Record:	
No 4731	
Date: 3/16/18	
Sergio Reyes, P.E. Engineer	Cert. No. <u>47311</u>

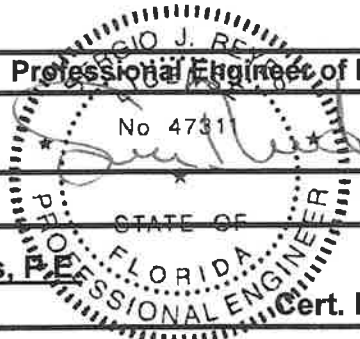


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Attachment B Pre and Post-Development Drainage Map

Attachment C Pre and Post-Development Conditions
ICPR Model

Attachment D Recovery Analysis

Attachment E FEMA and Soil Maps

H. DRAINAGE DESIGN

1) PRE DEVELOPMENT DRAINAGE AREA

DA-1	Area (sf)	Area (Acres)	Curve CN
Existing Impervious	4,703	0.11	98.0
Open - "A" Good Condition	77,432	1.78	39.0
TOTALS	82,136	1.89	42.4

2) POST DEVELOPMENT DRAINAGE AREAS

DA-1	Area (sf)	Area (Acres)	Curve CN
Impervious	6,626	0.15	98.0
Proposed Basin	7,987	0.18	100.0
Open - "A" Good Condition	57,270	1.31	39.0
TOTALS	71,883	1.65	51.2

DA-2	Area (sf)	Area (Acres)	Curve CN
Impervious	6,730	0.15	98.0
Grass Parking	1,639	0.04	70.0
Open - "A" Good Condition	0	0.00	39.0
TOTALS	8,369	0.19	92.5

Existing and Proposed Buildings	Area (sf)	Area (Acres)	Curve CN
Building Roof Area	8,633	0.198	98.0

3) BASIN STORAGE DATA

Basin-1

Stage (msl)	Area (sf)	Area (ac)	Volume (cf)	Volume (ac-ft)	
122.00	1,486.58	0.03	0	0.00	
123.00	3,062.19	0.07	2,274	0.05	
124.00	5,251.86	0.12	6,431	0.15	
124.10	5,559.12	0.13	6,972	0.16	(Proposed Slot Elevation)
124.89	7,986.54	0.18	12,322	0.28	(Existing Inlet Elevation)
125.00	8,324.54	0.19	13,220	0.30	
125.50	9,168.01	0.21	17,593	0.40	

Underground-2

Stage (msl)	Area (sf)	Void Area (sf)	Area (ac)	Volume (cf)	Volume (ac-ft)
125.51	1,336	1,269	0.029	0	0.00
127.90	1,336	1,269	0.029	3,030	0.07
128.33	1,336	1,269	0.029	3,580	0.08

Rain Cisterns (Designed By Others)

Size (cf)	Quantity (cisterns)	Volume (cf)
334.20	8	2,674

4) WATER QUALITY TREATMENT VOLUME

Basin 1 and Underground Basin 2 provides water quality treatment volume per SJRWMD criteria for dry retention basins. The design criteria includes two thresholds, whichever of the two is greater:

Volume V1 = 1.00 inches over the total area, or
 Volume V2 = 1.25 inches over the impervious area plus 0.50 inches over the total area

	Volume V1 (cf)	Volume V2 (cf)	Treat. Vol Required (cf)	Treat. Vol Provided (cf)
DA-1	5,990	3,685	5,990	6,972
DA-2	697	1,050	1,050	3,030
Ex. And Pro. Buildings	719	1,259	1,259	-
Total:			8,299	10,002

5) BASIN GEOMETRY & DETAILS

HD R-tank Units

Module	Width (ft)	Length (ft)	Height (ft)	Volume (cf)	Storage (cf)
Double Units	1.31	2.35	2.82	8.69	8.25

Basin	Basin Area (sf)	Tanks (#)	Tanks (type)
Underground Basin 2	1,336	434	Double-HD

6) BASIN DISCHARGE STRUCTURE DETAILS

Structure Type	Size	Elevation
Underground Basin 2 to Basin 1	4" Pipe @ 4.02%	127.90
Existing Inlet for Basin 1	Type C Inlet per FDOT	124.89
New Orifice in Ex. Inlet for Basin 1	4" Rectangular Slot	124.25

7) SUBSURFACE INVESTIGATION INFORMATION

Based on the Soils Report No. 1422777, dated February 8, 2017, prepared by Universal Engineering Sciences, Inc. the recommendations of the soil characteristics are summarized below:

Soil Report No. 1422777

	B1/B2	B3/B4	B5/B6
Soil Boring	B1/B2	B3/B4	B5/B6
Average Ground El.	128.00	125.50	130.00
Depth Confined layer (ft)	13.00	12.00	11.00
Depth of groundwater (ft)	12.00	11.00	11.50
Vertical (ft/d)	2.00	4.00	1.50
Safety factor	2.00	2.00	2.00
Vertical Infiltration rate (ft/d)	1.00	2.00	0.75
Horizontal (ft/d)	3.00	5.00	2.00
Safety factor	2.00	2.00	2.00
Horizontal (ft/d)	1.50	2.50	1.00
Fillable porosity (%)	20.00	20.00	20.00

8) RECOVERY OF TREATMENT VOLUME FOR DRY RETENTION SYSTEM

The criteria for the recovery of the system is the recovery of the required water quality volume within 72 hours following the critical storm event. Results are obtained from the 100 yr - 24 hr storm (highest volume storm).

WQTV Recovery

DA 1 WQTV (cf):	5,990
Recovery Time (hrs):	6.76
DA 2 WQTV (cf):	1,050
Recovery Time (hrs):	21.26

9) STORM ROUTING RESULTS

The computer program ICPR was used to route the critical design storms (100 YR, 25YR-24HR, and Mean Annual), the input data and results can be seen in Attachment C.

Storm Event	Basin 1 Stage	Freeboard (ft)	Rates		Volumes	
			Pre (cfs)	Post (cfs)	Pre (ac-ft)	Post (ac-ft)
100Y 001H	123.33	2.17	0.65	0.00	0.029	0.000
100Y 002H	123.97	1.53	0.65	0.00	0.069	0.000
100Y 004H	124.65	0.85	1.20	0.26	0.143	0.057
100Y 008H	124.90	0.60	1.36	0.36	0.232	0.150
100Y 024H	124.94	0.56	0.66	0.64	0.498	0.400
025Y 024H	124.58	0.92	0.35	0.24	0.275	0.144
Mean Annual	122.54	2.96	0.03	0.00	0.023	0.000

Storm Event	Tanks 2 Stage	Freeboard (ft)
100Y 001H	127.90	2.10
100Y 002H	128.24	1.76
100Y 004H	128.29	1.71
100Y 008H	128.18	1.82
100Y 024H	128.09	1.91
025Y 024H	127.40	2.60
Mean Annual	126.77	3.23

Attachment A

Soil Borings



UNIVERSAL ENGINEERING SCIENCES

Consultants in: Geotechnical Engineering • Environmental Engineering
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

LOCATIONS:
Atlanta
Daytona Beach
Fort Myers
Fort Pierce
Gainesville
Jacksonville
Kissimmee
Leesburg
Miami
Ocala
Orlando (Headquarters)
Palm Coast
Panama City
Pensacola
Rockledge
Sarasota
Tampa
West Palm Beach

February 8, 2017

Zion Lutheran Church
1700 NW 34th Street
Gainesville, FL 32605

Attention: Mr. Christopher J. Borgert

Reference: **Addendum to Report of Geotechnical Consulting Services**
Zion Lutheran Church – Stormwater Management System
1700 NW 34th Street
Gainesville, Alachua County, Florida
Section 35, Township 9 South, Range 19 East
UES Project No. 0230.1600108.0000

UES Report No. 1422777

Dear Mr. Borgert:

Universal Engineering Sciences, Inc. (UES) has completed geotechnical engineering services for a new stormwater management system at the subject project in Gainesville, Florida, as authorized in Proposal 1418554, dated January 5, 2017. This report presents the results of our subsurface field exploration, laboratory soil testing programs, and recommendations for the new stormwater management facility.

Objectives

The objectives of our geotechnical consulting services on this portion of the project have been summarized as follows:

- Explore the subsurface conditions within the proposed new stormwater management facility system,
- Perform a series of laboratory tests on selected subsurface soil specimens to assist with engineering soil classifications and to establish the relevant soil composition and permeability characteristics,
- Recommend appropriate subsurface soil design parameter values for design of the on-site stormwater management system.

Project Information

The project parcel is located at 1700 NW 34th Street in Gainesville, Alachua County, Florida. Current site development plans include construction of a stormwater management system. Our office was provided with a concept plan, showing the proposed boring locations, to assist us in our report preparation.

Site Conditions

UES personnel visited the project parcel during the performance of the field portion of this geotechnical study. Our on-site observations have been summarized as follows. At the time of our

exploration the project parcel was developed with an existing church building and parking areas, and contained minor overhead vegetation (trees) in the area of interest.

Local Geology

The general geology of central Alachua County is characterized by a surface veneer of Pleistocene and Pliocene sands and sandy clays overlying the Miocene-age Hawthorn Group. The Hawthorn Group includes a highly variable mixture of interbedded quartz sands, clays, carbonates, pebbles and grains occurring with thicknesses of up to 150 feet. In the general area of the subject project, it is anticipated that the Hawthorn Group is laterally discontinuous and perforated.

The general hydrogeology of Alachua County consists of three aquifer systems; a surficial aquifer, an intermediate aquifer, and the Floridan aquifer system. The surficial aquifer exists as an unconfined water table situated over the impermeable Hawthorn Group and is usually a subdued reflection of surface topography. The intermediate aquifer system includes all rocks that collectively retard the exchange of water between the overlying surficial aquifer system and the underlying Floridan aquifer system. Water in this system is contained under confined conditions. The Floridan aquifer system is a thick, carbonate sequence that functions regionally as a water-yielding hydraulic unit. Water exists under confined conditions.

General Area Soils Information

The United States Department of Agriculture (USDA) *Soil Survey of Alachua County, Florida* describes the near-surface soil profile in the project parcel as Millhopper sands. Millhopper sand is characterized as being nearly level to sloping and moderately well drained, with a high groundwater level of 40 to 60 inches below ground level for 1 to 4 months, and at a depth of 60 to 72 inches for 2 to 4 months during most years. Relevant engineering index properties for Millhopper sands have been summarized below in Tables 1 and 2.

Table 1 - Relevant Engineering Index Properties of Millhopper Sand Soils, 0-5 % Slopes

Depth, Inches	Texture	Classification	% Passing #200 Sieve	Plasticity Index	Shrink-swell Potential	Permeability
0 – 58	Sand	SP-SM, SM	5 to 20	Non-plastic	Low	6.0 to 20 in/hr
58 – 64	Loamy sand, loamy fine sand	SM	15 to 22	Non-plastic	Low	2.0 to 6.0 in/hr
64 - 89	Sandy loam, fine sandy loam, sandy clay loam	SM, SM-SC, SC	18 to 40	Non-plastic to 10	Low	0.06 to 2.0 in/hr

Table 2 - Relevant Engineering Index Properties of Millhopper Sand Soils, 5-8 % Slopes

Depth, Inches	Texture	Classification	% Passing #200 Sieve	Plasticity Index	Shrink-swell Potential	Permeability
0 – 54	Sand	SP-SM, SM	5 to 20	Non-plastic	Low	6.0 to 20 in/hr
54 – 56	Loamy sand, loamy fine sand	SM	15 to 22	Non-plastic	Low	2.0 to 6.0 in/hr
56 - 80	Sandy loam, fine sandy loam, sandy clay loam	SM, SM-SC, SC	18 to 40	Non-plastic to 10	Low	0.06 to 2.0 in/hr

Subsurface Exploration

The field geotechnical testing activities were started and completed on January 30, 2017. Field tests for this portion of the geotechnical study included six (6) soil test borings performed at the locations shown on the attached Boring Location Plan. The actual test locations shown are approximate, and were staked in the field by UES personnel using existing landmarks and site features. The boreholes were backfilled to grade upon field work completion.

Standard Penetration Test Borings (SPT): Six (6) soil test borings were advanced for the proposed stormwater management areas to a depth of 15 feet. The penetration tests were performed in accordance with ASTM Procedure D-1586, Penetration Test and Split-Barrel Sampling of Soils. This test procedure generally involved driving a 1.4-inch I.D. split-tube sampler into the soil profile in six inch increments for a minimum distance of 18 inches using a 140-pound hammer free-falling 30 inches. The total number of blows required to drive the sampler the second and third 6-inch increments was an indication of in-place soil strength and consistency.

Representative portions of the soil samples recovered were transported to our laboratory. The soil samples were classified and stratified by a professional engineer. The results of the classification and stratification have been shown on the attached Boring Logs and summarized below. It should be noted that soil conditions might vary between the soil strata interfaces which are shown. The soil boring data reflects information from the specific test locations only.

By contract, our exploration was confined to the zone of soil likely to be stressed by the proposed construction. Our work did not address the potential for surface expression of deep geological conditions, such as sinkholes. This evaluation requires a more extensive range of field services than performed in this study. We will be pleased to conduct an exploration to evaluate the probable effect of the regional geology upon the proposed construction, if you desire. This Report has presented an evaluation of site conditions on the basis of traditional geotechnical procedures for site characterization. The recovered samples were not examined, either visually or analytically, for chemical composition or environmental hazards.

Subsurface Findings

The field exploration performed for this project disclosed subsurface conditions that are consistent with the local geology and general area soils information described above. The subsurface conditions found in the soil test borings have been summarized in the attached Boring Logs and described below.

The soil test borings generally encountered very loose to medium dense sand with silt to silty sand [SM] to depths of 11 to 15 feet followed by loose to medium dense clayey sand to stiff sandy clay [SC/CH] to maximum boring termination depths of 15 feet below the existing grade. The groundwater level was not encountered below the ground surface in the soil borings at the time of our field exploration. Fluctuations of the groundwater levels should be expected to occur seasonally as a result of rainfall, surface runoff, and nearby construction activities.

Laboratory Soil Tests

The soil samples recovered from the field exploration program were placed in containers and returned to our soils laboratory, where the Geotechnical Engineer visually classified the samples. Laboratory soil tests are performed to aid in the classification of the soils, and to help in the evaluation of engineering characteristics of the soils. Representative soil samples were selected for percent fines determination, moisture content and permeability tests. The test results have been presented on the attached Boring Logs and summarized in Table 3.

Percent Passing No. 200 Sieve: Certain recovered soil samples were selected to determine the percentage of fines. In these tests the soil samples were dried and washed over a No. 200 mesh sieve. The percent of soil by weight passing the sieve was the percentage of fines or portion of the sample in the silt and clay size range. This test was conducted in accordance with ASTM Procedure D-1140, Amount of Material in Soils Finer Than the #200 Sieve.

Permeability: Representative soil samples were selected to determine the permeability rate of the soil. Constant head permeability tests were performed on remolded representative samples of the near surface soils from the proposed stormwater management area. These tests were conducted following the concepts outlined in ASTM D-2434, Standard Test Method for Permeability of Granular Soils (Constant Head and Falling Head).

Moisture Content: Certain recovered soil samples were selected to determine their moisture content. The moisture content is the ratio expressed as a percentage of the weight of water in a given mass of soil to the weight of the solid particles. This test was conducted in accordance with ASTM Procedure D-2216, Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock.

Test Location	Sample Depth	Type of Test	Results	Soil Description
B-1	1 foot	% Finer #200	15 %	Silty Sand
		Moisture Content	11 %	
		Permeability	3 feet/day	
B-2	2.5 feet	% Finer #200	18 %	Silty Sand
		Moisture Content	7 %	
B-3	4 feet	% Finer #200	10 %	Sand with silt
		Moisture Content	8 %	
		Permeability	10 feet/day	
B-4	2.5 feet	% Finer #200	15 %	Silty Sand
		Moisture Content	8 %	
B-5	8.5 feet	% Finer #200	18 %	Silty Sand
		Moisture Content	5 %	
		Permeability	1 feet/day	
B-6	2.5 feet	% Finer #200	21 %	Silty Sand
		Moisture Content	20 %	

Stormwater Management System

The laboratory test data indicates that the surficial sandy soils in the proposed stormwater management areas for this project generally have permeability rates of 1 to 10 feet per day at the boring locations. The clayey sands encountered directly underneath the surficial sands would behave as a confining layer in the stormwater management area. Based upon the above findings, we recommend that you consider the soil parameters presented in Table 4 for design of the stormwater management system on the subject project site. It should be noted that the below referenced values are measured values and do not incorporate factors of safety.

Table 4 – Stormwater Management System Soil Design Parameters ¹			
Corresponding Soil Boring Test Locations	B-1/B-2	B-3/B-4	B-5/B-6
Base of Effective Aquifer (Average Depth to Hydraulically Restrictive Layer), feet	13	12	11
Estimated Unsaturated Vertical Infiltration Rate, feet per day	1.5	3	1
Saturated Vertical Infiltration Rate, feet per day	2	4	1.5
Estimated Horizontal Hydraulic Conductivity, feet per day	3	5	2
Estimated Fillable Porosity, percentage	20	20	20
Estimated Depth of “Perched” Water Level, feet	12	11	11.5
Estimated Depth of Seasonal High Water Table feet	> 10	> 10	> 10

¹Normal seasonal high water table (SHWT) will be the result of perched conditions.

Stormwater Management System Fill Suitability

The recovered soil samples were classified using visual and textural means, and limited laboratory testing. We offer the following ***preliminary guidelines*** for the use of on-site soils, such as those excavated from the proposed shallow retention areas, as fill material for the project.

Soil materials excavated and classified as fine sands to sand with silts and sand with clay (SP, SP-SM, SP-SC), with typically 12% fines or less (silt/clay fraction), may be considered suitable for use as utility trench backfill, as well as building pad and pavement subgrade structural fill, provided said materials are properly dried, placed, and compacted.

Soil materials excavated and classified as silty fine sands [SM], with typically 12% to 25% fines, may also be considered suitable for use as utility trench backfill, as well as building pad and pavement subgrade structural fill, after significant drying and some mixing with the fine sand material described above. Proper placement, proof rolling and compaction must also be performed.

Soil materials excavated and classified as clayey sand, silt or clay (SC, ML, MH, CL, and CH) and any organic-laden soils (5% or greater organics by weight) should not be reused as fill beneath buildings or pavement sections. These materials could be used in green areas, if applicable and in non-structural applications where excessive ground subsidence will not create functional or aesthetic problems. It should be noted that silt and clay materials will retain water and if used may become saturated and soft for a significant period of time following a rain event.

Soil borings for a typical geotechnical report are widely spaced and generally not sufficient for reliably detecting the presence of isolated, anomalous surface or subsurface conditions, or reliably estimating unsuitable or suitable material quantities. Accordingly, UES does not recommend relying on our boring information to negate presence of anomalous materials or for estimation of material quantities unless our contracted services ***specifically*** include sufficient exploration for such purpose(s) and within the report we so state that the level of exploration provided should be sufficient to detect such anomalous conditions or estimate such quantities. Therefore, UES will not be responsible for any extrapolation or use of our data by others beyond the purpose(s) for which it is applicable or intended.

Report Limitations

This Report has been prepared for the exclusive use of Zion Lutheran Church, and members of the Design/Construction Team for the specific project discussed in this Report. This Report has been prepared in accordance with generally accepted local geotechnical engineering practices; no other warranty is expressed or implied. If any changes in the design or location of the project elements as outlined in this Report are planned, the conclusions and recommendations contained in this Report shall not be considered valid unless the changes are reviewed and the conclusions modified or approved, in writing, by UES.

UES performs hydraulic conductivity tests, including the two most common, i.e., DRI and remolded laboratory permeability testing, using generally accepted practices of the local engineering community. These common tests are the quickest and most economical for stormwater management system design. However, the user of this information is cautioned that the potential variability of results and reproducibility associated with these types of tests can be significant. It is important to note that there are many factors influencing the permeability of a soil. These factors include, but are not limited to, soil grain size, soil particle arrangement and structure, dispersion of soil fines, density, and degree of saturation, soil heterogeneity, and soil anisotropy. Also, the permeability measured by such tests may not be representative of that of the total effective aquifer thickness. Factors of safety can compensate for part of the inherent test limitations but the Designer must exercise judgment regarding final selection and applicability of provided soil design input parameters. Should the modeling analysis indicate marginally acceptable compliance with Water Management District design criteria, it may be advisable to perform more extensive and representative in-situ permeability testing by collecting "undisturbed" horizontal and vertical soil samples and/or installing grouted piezometers or wells for slug testing. UES can perform these field tests if desired. Additionally, the actual exfiltration rates from the pond may be influenced by pond geometry, natural soil variability, in-situ depositional characteristics and soil density, retention volume, and groundwater mounding effects. Also, it is important to note that the upper in-situ soil zone is usually altered during the excavation and grading operations by heavy, vibrating earthwork equipment. Due to these numerous factors cited above, published literature suggests that the permeability of a soil can only be estimated to within an order of magnitude. Therefore, appropriate factors of safety should be incorporated into the design process.

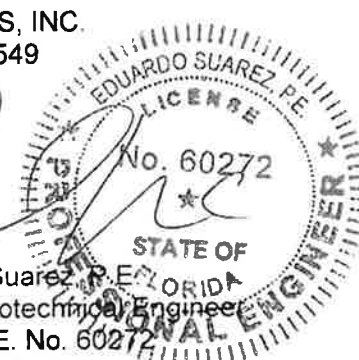
Closure

We have enjoyed being a part of the engineering team on this project, and appreciate the opportunity to have assisted you towards its successful completion. Please contact our office if you have any questions or need further assistance.

Respectfully submitted,
UNIVERSAL ENGINEERING SCIENCES, INC.
Certificate of Authorization Number 549



Timothy E. Kwiatkowski, EI
Staff Geotechnical Engineer




Eduardo Suarez, P.E.
Senior Geotechnical Engineer
Florida P.E. No. 60272
Date: 2-8-17

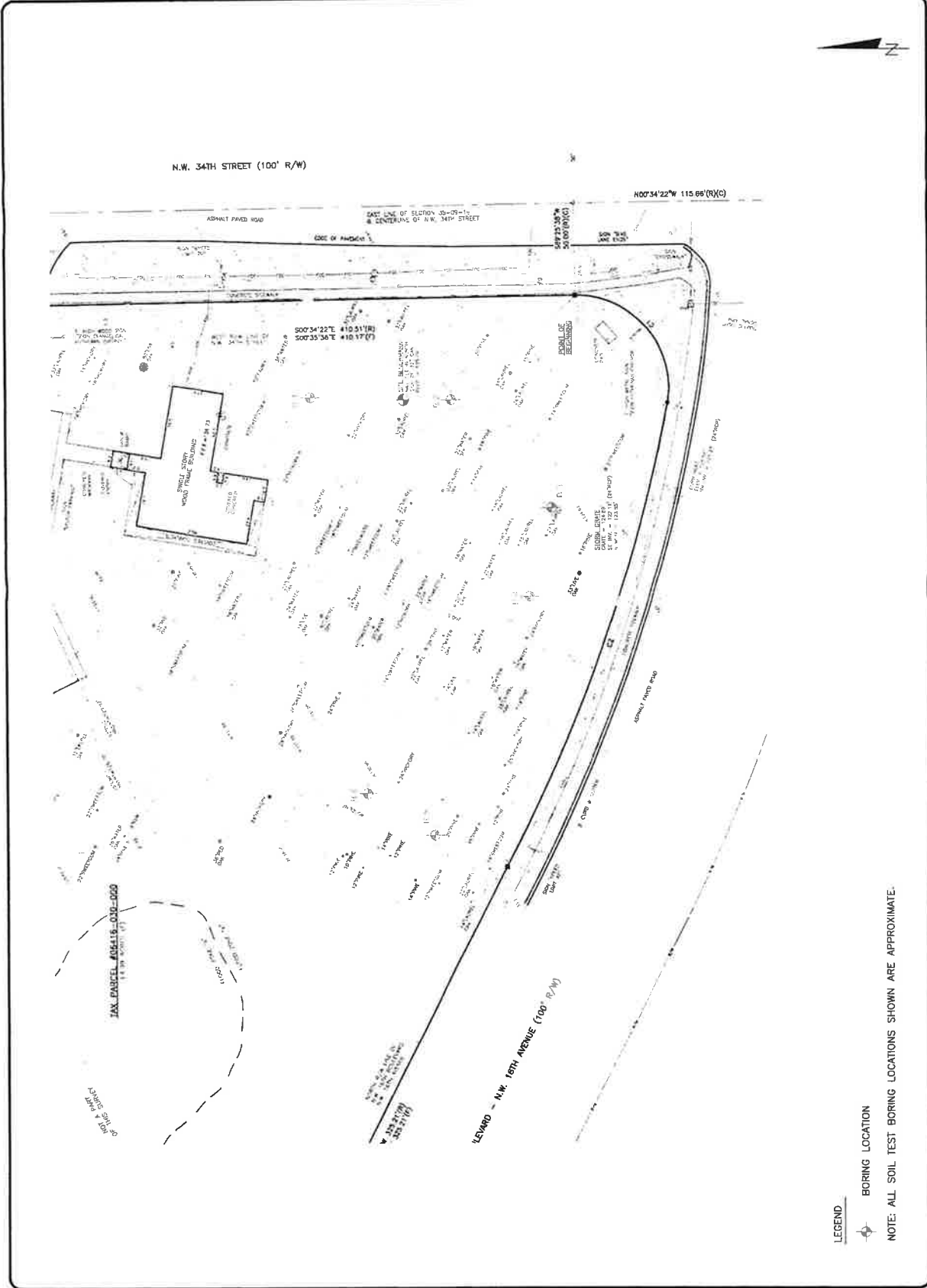
Attachments: Boring Location Plan, Boring Logs, Key to Boring Log
cc: EDA engineers-surveyors-planners, Inc. (2)

PROJECT NO	0230 1600108 0000	REPORT NO	1422177
SCALE	1"=50'	ACAD FILE	0230 1600108-A
CHECKED BY	ES	DATE	2/8/17
DRAWN BY	KD	DATE	2/8/17
CLIENT:	ZION LUTHERAN CHURCH		

BORING LOCATION PLAN
 1700 NW 34TH STREET
 GAINESVILLE, FLORIDA
 ZION LUTHERAN CHURCH



UNIVERSAL
 ENGINEERING SCIENCES
 PAGE NO: A - 1





**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO :	0230.1600108 0000
REPORT NO.:	1422777
PAGE:	A-2

PROJECT: ZION LUTHERAN CHURCH
1700 NW 34TH STREET
GAINESVILLE, FLORIDA

CLIENT: ZION LUTHERAN CHURCH
LOCATION: SEE BORING LOCATION PLAN
REMARKS:

BORING NO: **B-1** SHEET: **1 of 1**

SECTION: TOWNSHIP: RANGE:

GS ELEVATION(ft): DATE STARTED: 1/30/17
WATER TABLE (ft): NE DATE FINISHED: 1/30/17
DATE OF READING: NA DRILLED BY: J. STILLSON
EST. WSWT (ft): TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLER	BLOWS PER 6" INCREMENT	N VALUE	WT	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG CONT (%)
									LL	PI		
0						Brown silty SAND [SM]						
1						Loose orange and tan silty SAND [SM]						
2		2-3-3	6				15	11			3	
3												
4		2-3-3	6									
5		2-3-3	6									
6												
7		3-3-4	7									
8		2-3-3	6									
9												
10		3-2-2	4									
11												
12												
13												
14												
15		2-2-3	5			Boring Terminated at 15'						



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0230.1600108.0000

REPORT NO: 1422777

PAGE: A-3

PROJECT: ZION LUTHERAN CHURCH
1700 NW 34TH STREET
GAINESVILLE, FLORIDA

BORING NO: **B-2** SHEET: **1 of 1**

CLIENT: ZION LUTHERAN CHURCH
LOCATION: SEE BORING LOCATION PLAN
REMARKS:

SECTION: TOWNSHIP: RANGE:
GS ELEVATION(ft): DATE STARTED: 1/30/17
WATER TABLE (ft): NE DATE FINISHED: 1/30/17
DATE OF READING: NA DRILLED BY: J STILLSON
EST WSWT (ft): TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N VALUE	W T	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT (%)
									LL	PI		
0						Loose dark brown silty SAND [SM]						
1												
2		2-3-4	7			Loose to medium dense orange and gray silty SAND [SM]	18	7				
3												
4		3-4-5	9									
5												
6		3-4-6	10									
7												
8		5-6-6	12									
9												
10		5-6-6	12									
11												
12						Medium dense orange clayey SAND [SC]						
13												
14						Stiff orange and gray sandy CLAY [CH]						
15		5-6-7	13			Boring Terminated at 15'						



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0230.1600108 0000

REPORT NO.: 1422777

PAGE: A-4

PROJECT: ZION LUTHERAN CHURCH
1700 NW 34TH STREET
GAINESVILLE, FLORIDA

BORING NO: **B-3** SHEET: **1 of 1**

CLIENT: ZION LUTHERAN CHURCH
LOCATION: SEE BORING LOCATION PLAN
REMARKS:

SECTION: TOWNSHIP: RANGE:
GS ELEVATION(ft): DATE STARTED: 1/30/17
WATER TABLE (ft): NE DATE FINISHED: 1/30/17
DATE OF READING: NA DRILLED BY: J STILLSON
EST. WSWT (ft): TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N VALUE	WT	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG CONT (%)
									LL	PI		
0						Loose dark brown silty SAND [SM]						
1												
2		2-2-2	4			Loose brown SAND, with silt [SP-SM]						
3												
4		2-2-2	4				10	8			10	
5												
6		2-2-2	4									
7						Medium dense brown silty SAND [SM]						
8		2-5-5	10									
9												
10		5-5-6	11									
11												
12		6-7-7	14									
13												
14						Medium dense brown silty clayey SAND [SM-SC]						
15		7-8-9	17			Boring Terminated at 15'						



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0230.1600108.0000

REPORT NO.: 1422777

PAGE: A-5

PROJECT: ZION LUTHERAN CHURCH
1700 NW 34TH STREET
GAINESVILLE, FLORIDA

BORING NO: **B-4**

SHEET: **1 of 1**

CLIENT: ZION LUTHERAN CHURCH
LOCATION: SEE BORING LOCATION PLAN

SECTION:

TOWNSHIP:

RANGE:

GS ELEVATION(ft):

DATE STARTED: 1/30/17

WATER TABLE (ft): NE

DATE FINISHED: 1/30/17

DATE OF READING: NA

DRILLED BY: J STILLSON

EST WSWT (ft):

TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N VALUE	W T	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT (%)
									LL	PI		
0						Very loose brown SAND, with silt [SP-SM]						
1												
2		2-1-2	3			Very loose to loose orange silty SAND [SM]	15	8				
3												
4		2-2-2	4									
5		2-2-3	5			Loose to medium dense dark brown silty SAND [SM]						
6												
7		3-3-4	7									
8		4-5-5	10									
9												
10		7-4-5	9									
11												
12						Medium dense brown silty clayey SAND [SM-SC]						
13												
14												
15		5-7-7	14			Boring Terminated at 15'						



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0230.1600108.0000
REPORT NO.: 1422777
PAGE: A-6

PROJECT: ZION LUTHERAN CHURCH
 1700 NW 34TH STREET
 GAINESVILLE, FLORIDA

CLIENT: ZION LUTHERAN CHURCH
 LOCATION: SEE BORING LOCATION PLAN
 REMARKS:

BORING NO: **B-5** SHEET: **1 of 1**

SECTION: TOWNSHIP: RANGE:

GS ELEVATION(ft): DATE STARTED: 1/30/17
 WATER TABLE (ft): NE DATE FINISHED: 1/30/17
 DATE OF READING: NA DRILLED BY: J. STILLSON
 EST. WSWT (ft): TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N VALUE	WT	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG CONT (%)
									LL	PI		
0						Very loose brown fine silty SAND [SM]						
1	X											
2	X	1-1-1	2									
3	X											
4	X	1-1-1	2									
5	X	1-1-1	2			Very loose to loose tan and orange silty SAND [SM]						
6	X											
7	X	2-3-4	7									
8	X	5-4-3	7									
9	X											
10	X	3-3-3	6				18	5			1	
11	X											
12	X					Loose orange and gray clayey SAND [SC]						
13	X											
14	X											
15	X	2-3-4	7			Boring Terminated at 15'						



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0230.1600108.0000

REPORT NO.: 1422777

PAGE: A-7

PROJECT: ZION LUTHERAN CHURCH
1700 NW 34TH STREET
GAINESVILLE, FLORIDA

BORING NO: **B-6**

SHEET: **1 of 1**

CLIENT: ZION LUTHERAN CHURCH
LOCATION: SEE BORING LOCATION PLAN
REMARKS:

SECTION:
GS ELEVATION(ft):
WATER TABLE (ft): NE
DATE OF READING: NA
EST WSWT (ft):

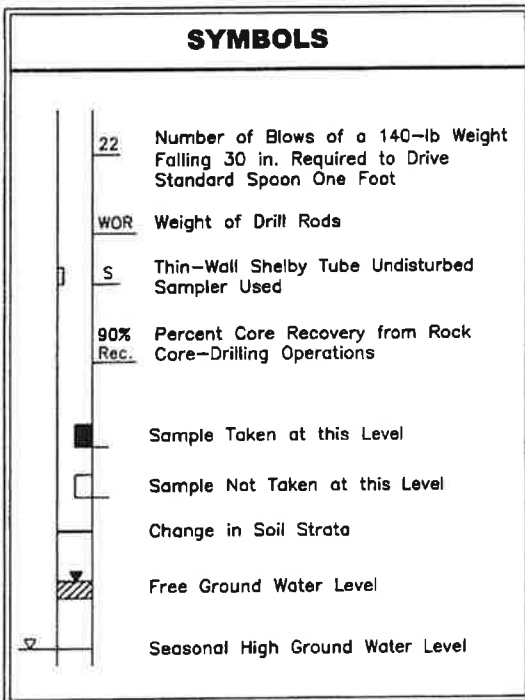
TOWNSHIP: RANGE:
DATE STARTED: 1/30/17
DATE FINISHED: 1/30/17
DRILLED BY:
TYPE OF SAMPLING: ASTM D-1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N VALUE	WT	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT (%)
									LL	PI		
0						Loose dark brown silty SAND [SM]						
1												
2		1-2-3	5			Loose to medium dense tan, orange and gray silty SAND [SM]	21	20				
3												
4		3-3-3	6									
5												
6		3-3-5	8									
7												
8		6-5-6	11									
9												
10		4-6-7	13									
11												
12						Medium dense orange and gray clayey SAND to sandy CLAY [SC/CH]						
13												
14												
15		4-7-7	14									
		4-4-6	10			Boring Terminated at 15'						



KEY TO BORING LOGS

SYMBOLS



RELATIVE DENSITY
(sand-silt)

- Very loose - Less Than 4 Blows/Ft.
- Loose - 4 to 10 Blows/Ft.
- Medium Dense - 10 to 30 Blows/Ft.
- Dense - 30 to 50 Blows/Ft.
- Very Dense - More Than 50 Blows/Ft.

CONSISTANCY
(clay)

- Very Soft - Less Than 2 Blows/Ft.
- Soft - 2 to 4 Blows/Ft.
- Firm - 4 to 8 Blows/Ft.
- Stiff - 8 to 15 Blows/Ft.
- Very Stiff - 15 to 30 Blows/Ft.
- Hard - More Than 30 Blows/Ft.

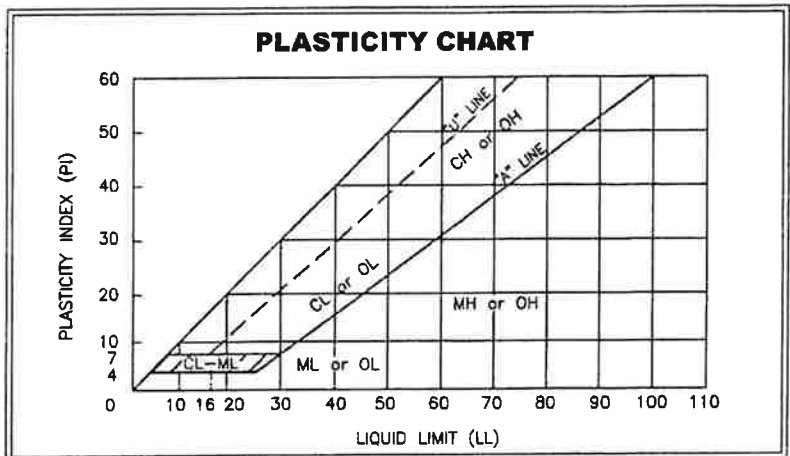
Based on Safety Hammer N-Values

UNIFIED CLASSIFICATION SYSTEM

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES	
COARSE-GRAINED SOILS	More than 50% retained on No. 200 sieve*	GRAVELS	CLEAN GRAVELS	
		SANDS	CLEAN SANDS	
			GRAVELS WITH FINES	
	More than 50% of coarse fraction passes No. 4 sieve	GRAVELS WITH FINES	GW	Well-graded gravels and gravel-sand mixtures, little or no fines
			GP	Poorly graded gravels and gravel-sand mixtures, little or no fines
		CLEAN SANDS	GM	Silty gravels, gravel-sand-silt mixtures
FINE-GRAINED SOILS	Liquid limit 50% or less	GC	Clayey gravels, gravel-sand-clay mixtures	
		SW	Well-graded sands and gravelly sands, little or no fines	
		SP	Poorly graded sands and gravelly sands, little or no fines	
	Liquid limit greater than 50%	SM	Silty sands, sand-silt mixtures	
		SC	Clayey sands, sand-clay mixtures	
		ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	
	SILTS AND CLAYS	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL	Organic silts and organic silty clays of low plasticity	
		MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts	
		CH	Inorganic clays or high plasticity, fat clays	
OH	Organic clays of medium to high plasticity			
Highly organic Soils	PT	Peat, muck and other highly organic soils		

* Based on the material passing the 3-in. (75mm) sieve.

PLASTICITY CHART



Attachment B

Pre and Post-Development Drainage Map

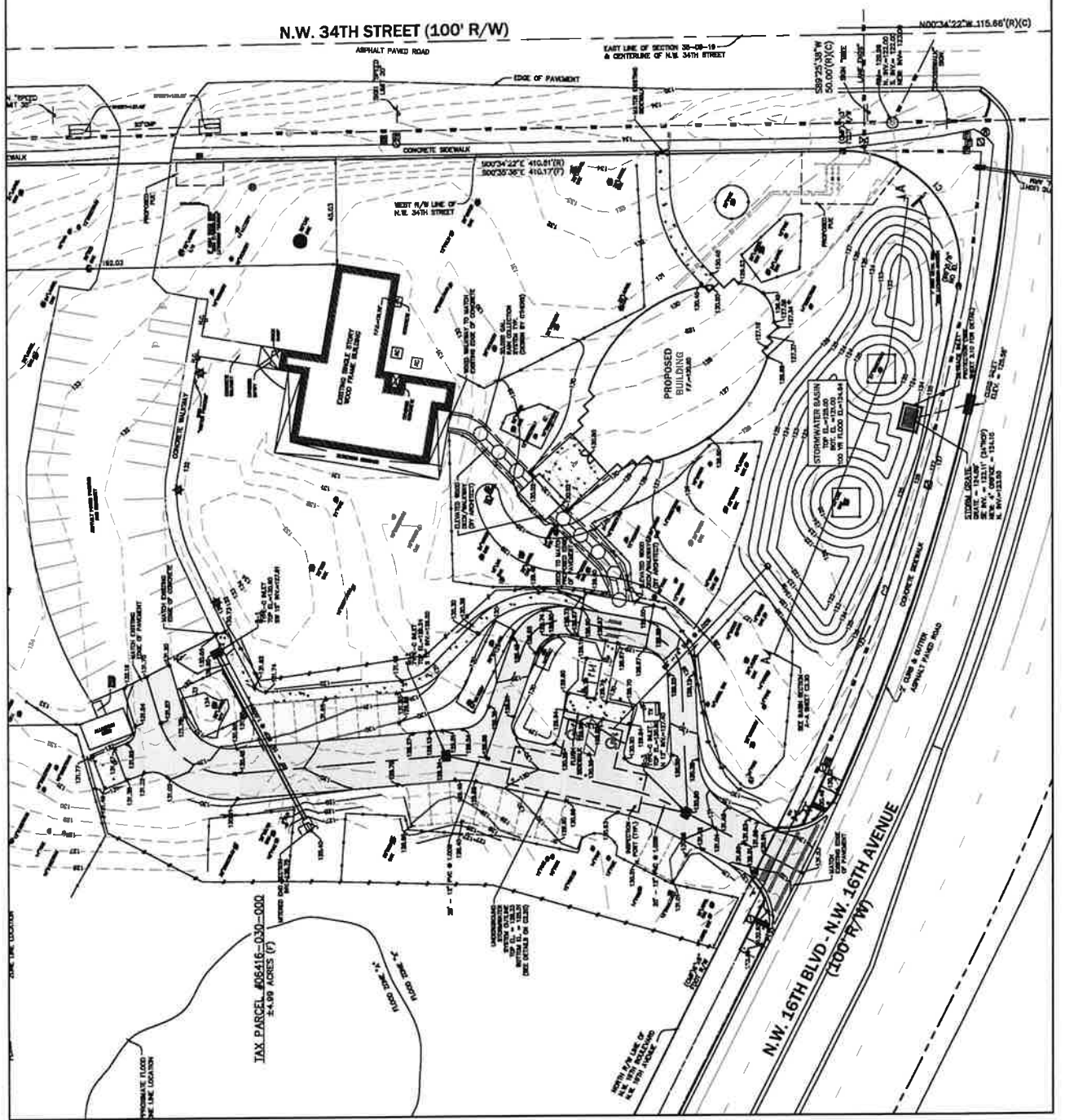
MAINTENANCE NOTES


1. MAINTENANCE REQUIREMENTS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CURBING AND GUTTERS THROUGHOUT THE PROJECT.

2. MAINTENANCE PLAN:

- A. MANSIONS SHALL BE MAINTAINED REGULARLY TO AVOID EXCESSIVE WEAR AND TEAR. MAINTENANCE SHALL BE PERFORMED AT LEAST ONCE A YEAR.
- B. MANSIONS SHALL BE MAINTAINED REGULARLY TO AVOID EXCESSIVE WEAR AND TEAR. MAINTENANCE SHALL BE PERFORMED AT LEAST ONCE A YEAR.
- C. MANSIONS SHALL BE MAINTAINED REGULARLY TO AVOID EXCESSIVE WEAR AND TEAR. MAINTENANCE SHALL BE PERFORMED AT LEAST ONCE A YEAR.
- D. MANSIONS SHALL BE MAINTAINED REGULARLY TO AVOID EXCESSIVE WEAR AND TEAR. MAINTENANCE SHALL BE PERFORMED AT LEAST ONCE A YEAR.
- E. MANSIONS SHALL BE MAINTAINED REGULARLY TO AVOID EXCESSIVE WEAR AND TEAR. MAINTENANCE SHALL BE PERFORMED AT LEAST ONCE A YEAR.

ITEM	QUANTITY	UNIT	PRICE
CONCRETE	100	YD	120.00
ASPHALT	500	YD	150.00
PAVING	100	YD	100.00
GRADING	100	YD	100.00
LANDSCAPING	100	YD	100.00






NORTH
SCALE: 1" = 20'

GRAPHIC SCALE

0 10 20



GSA
ENGINEERS & SURVEYORS

PAVING, GRADING, AND DRAINAGE PLAN

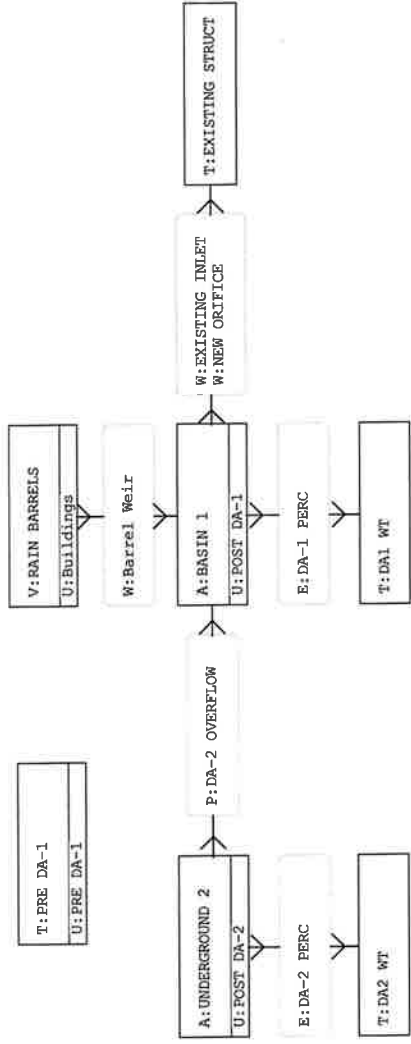
ZION EVANGELICAL LUTHERAN CHURCH
CITY OF GAINESVILLE, FLORIDA

C2.00

Attachment C

Pre and Post-Development Conditions ICPR Model

- Nodes**
 A Stage/Area
 V Stage/Volume
 T Time/Stage
 M Manhole
- Basins**
 O Overland Flow
 U SCS Unit CN
 S SBUH CN
 Y SCS Unit GA
 Z SBUH GA
- Links**
 P Pipe
 W Weir
 C Channel
 D Drop Structure
 B Bridge
 R Rating Curve
 H Breach
 E Percolation
 F Filter
 X Exfil Trench



Node Diagram

==== Basins

Name: Buildings Node: RAIN BARRELS Status: Onsite
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh484 Peaking Factor: 484.0
 Rainfall File: Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
 Area(ac): 0.198 Time Shift(hrs): 0.00
 Curve Number: 39.00 Max Allowable Q(cfs): 999999.000
 DCIA(%): 100.00

Name: POST DA-1 Node: BASIN 1 Status: Onsite
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh323 Peaking Factor: 323.0
 Rainfall File: Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000 Time of Conc(min): 13.50
 Area(ac): 1.650 Time Shift(hrs): 0.00
 Curve Number: 51.20 Max Allowable Q(cfs): 999999.000
 DCIA(%): 0.00

Name: POST DA-2 Node: UNDERGROUND 2 Status: Onsite
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh484 Peaking Factor: 484.0
 Rainfall File: Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
 Area(ac): 0.190 Time Shift(hrs): 0.00
 Curve Number: 92.30 Max Allowable Q(cfs): 999999.000
 DCIA(%): 0.00

Name: PRE DA-1 Node: PRE DA-1 Status: Onsite
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh323 Peaking Factor: 323.0
 Rainfall File: Storm Duration(hrs): 0.00
 Rainfall Amount(in): 0.000 Time of Conc(min): 18.95
 Area(ac): 1.890 Time Shift(hrs): 0.00
 Curve Number: 42.40 Max Allowable Q(cfs): 999999.000
 DCIA(%): 0.00

==== Nodes

Name: BASIN 1 Base Flow(cfs): 0.000 Init Stage(ft): 122.000
 Group: BASE Warn Stage(ft): 125.000
 Type: Stage/Area

Stage(ft)	Area(ac)
122.000	0.0300
123.000	0.0700
124.000	0.1200
124.330	0.1400
124.890	0.1800
125.000	0.1900
125.500	0.2100

Name: DA1 WT Base Flow(cfs): 0.000 Init Stage(ft): 115.000
 Group: BASE Warn Stage(ft): 115.000
 Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	115.000
300.00	115.000

INPUT VALUES

```

Name: DA2 WT          Base Flow(cfs): 0.000      Init Stage(ft): 120.000
Group: BASE          Warn Stage(ft): 120.000
Type: Time/Stage
  
```

```

Time(hrs)    Stage(ft)
-----
0.00         120.000
300.00       120.000
  
```

```

Name: EXISTING STRUCT Base Flow(cfs): 0.000      Init Stage(ft): 122.110
Group: BASE          Warn Stage(ft): 122.110
Type: Time/Stage
  
```

```

Time(hrs)    Stage(ft)
-----
0.00         122.110
300.00       122.110
  
```

```

Name: PRE DA-1       Base Flow(cfs): 0.000      Init Stage(ft): 125.000
Group: BASE          Warn Stage(ft): 125.000
Type: Time/Stage
  
```

```

Time(hrs)    Stage(ft)
-----
0.00         125.000
300.00       125.000
  
```

```

Name: RAIN BARRELS   Base Flow(cfs): 0.000      Init Stage(ft): 117.000
Group: BASE          Warn Stage(ft): 125.000
Type: Stage/Volume
  
```

```

Stage(ft)    Volume(af)
-----
117.000      0.0000
125.000      0.0614
  
```

```

Name: UNDERGROUND 2 Base Flow(cfs): 0.000      Init Stage(ft): 125.510
Group: BASE          Warn Stage(ft): 128.330
Type: Stage/Area
  
```

```

Stage(ft)    Area(ac)
-----
125.510      0.0290
128.330      0.0290
  
```

==== Pipes

```

Name: DA-2 OVERFLOW   From Node: UNDERGROUND 2   Length(ft): 85.00
Group: BASE           To Node: BASIN 1           Count: 1
                       Friction Equation: Automatic
                       Solution Algorithm: Most Restrictive
                       Flow: Both
                       Entrance Loss Coef: 0.00
                       Exit Loss Coef: 1.00
                       Bend Loss Coef: 0.00
                       Outlet Ctrl Spec: Use dc or tw
                       Inlet Ctrl Spec: Use dc
                       Stabilizer Option: None

      UPSTREAM          DOWNSTREAM
Geometry: Circular    Circular
Span(in): 4.00        4.00
Rise(in): 4.00        4.00
Invert(ft): 127.900   124.000
Manning's N: 0.012000 0.012000
Top Clip(in): 0.000   0.000
Bot Clip(in): 0.000   0.000
  
```

Upstream FHWA Inlet Edge Description:
Circular: Smooth tapered inlet throat

Downstream FHWA Inlet Edge Description:
Circular: Smooth tapered inlet throat

INPUT VALUES

==== Weirs =====

Name: Barrel Weir From Node: RAIN BARRELS
 Group: BASE To Node: BASIN 1
 Flow: Positive Count: 8
 Type: Vertical: Mavis Geometry: Circular

Span(in): 4.00
 Rise(in): 4.00
 Invert(ft): 124.660
 Control Elevation(ft): 124.660

TABLE

Bottom Clip(in): 0.000
 Top Clip(in): 0.000
 Weir Discharge Coef: 3.200
 Orifice Discharge Coef: 0.600

Name: EXISTING INLET From Node: BASIN 1
 Group: BASE To Node: EXISTING STRUCT
 Flow: Positive Count: 1
 Type: Horizontal Geometry: Rectangular

Span(in): 36.00
 Rise(in): 24.00
 Invert(ft): 124.890
 Control Elevation(ft): 124.890

TABLE

Bottom Clip(in): 0.000
 Top Clip(in): 0.000
 Weir Discharge Coef: 2.600
 Orifice Discharge Coef: 0.600

Name: NEW ORIFICE From Node: BASIN 1
 Group: BASE To Node: EXISTING STRUCT
 Flow: Both Count: 1
 Type: Vertical: Mavis Geometry: Circular

Span(in): 4.00
 Rise(in): 4.00
 Invert(ft): 124.100
 Control Elevation(ft): 124.100

TABLE

Bottom Clip(in): 0.000
 Top Clip(in): 0.000
 Weir Discharge Coef: 3.200
 Orifice Discharge Coef: 0.600

==== Percolation Links =====

Name: DA-1 PERC From Node: BASIN 1 Flow: Both
 Group: BASE To Node: DA1 WT Count: 1

Surface Area Option: Vary based on Stage/Area Table
 Vertical Flow Termination: Horizontal Flow Algorithm

Aquifer Base Elev(ft): 113.000	Perimeter 1(ft): 428.019
Water Table Elev(ft): 115.000	Perimeter 2(ft): 549.184
Ann Recharge Rate(in/year): 0.000	Perimeter 3(ft): 1260.128
Horiz Conductivity(ft/day): 2.500	Distance 1 to 2(ft): 20.000
Vert Conductivity(ft/day): 2.000	Distance 2 to 3(ft): 100.000
Effective Porosity(dec): 0.200	Num Cells 1 to 2: 20
Suction Head(in): 4.170	Num Cells 2 to 3: 20
Layer Thickness(ft): 7.000	

Name: DA-2 PERC From Node: UNDERGROUND 2 Flow: Positive
 Group: BASE To Node: DA2 WT Count: 1

Surface Area Option: Vary based on Stage/Area Table
 Vertical Flow Termination: Horizontal Flow Algorithm

Aquifer Base Elev(ft): 119.000	Perimeter 1(ft): 181.180
Water Table Elev(ft): 120.000	Perimeter 2(ft): 341.183
Ann Recharge Rate(in/year): 0.000	Perimeter 3(ft): 1141.183

INPUT VALUES

Horiz Conductivity(ft/day): 1.000	Distance 1 to 2(ft): 20.000
Vert Conductivity(ft/day): 0.750	Distance 2 to 3(ft): 100.000
Effective Porosity(dec): 0.200	Num Cells 1 to 2: 20
Suction Head(in): 4.170	Num Cells 2 to 3: 20
Layer Thickness(ft): 5.510	

==== Hydrology Simulations =====

Name: 100 yr - 01 hr
Filename: \\Server3\engprojects\Zion Lutheran Church\Design Reports\Drainage\Current Source Docs\100 yr - 01 hr.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: Fdot-1
Rainfall Amount(in): 4.40

Time(hrs)	Print Inc(min)
73.000	5.00

Name: 100 yr - 02 hr
Filename: \\Server3\engprojects\Zion Lutheran Church\Design Reports\Drainage\Current Source Docs\100 yr - 02 hr.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: Fdot-2
Rainfall Amount(in): 5.40

Time(hrs)	Print Inc(min)
74.000	5.00

Name: 100 yr - 04 hr
Filename: \\Server3\engprojects\Zion Lutheran Church\Design Reports\Drainage\Current Source Docs\100 yr - 04 hr.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: Fdot-4
Rainfall Amount(in): 6.72

Time(hrs)	Print Inc(min)
76.000	5.00

Name: 100 yr - 08 hr
Filename: \\Server3\engprojects\Zion Lutheran Church\Design Reports\Drainage\Current Source Docs\100 yr - 08 hr.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: Fdot-8
Rainfall Amount(in): 8.00

Time(hrs)	Print Inc(min)
80.000	5.00

Name: 100 yr - 24 hr
Filename: \\Server3\engprojects\Zion Lutheran Church\Design Reports\Drainage\Current Source Docs\100 yr - 24 hr.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Fdot-24
Rainfall Amount(in): 11.04

Time(hrs)	Print Inc(min)
96.000	5.00

Name: 25 yr - 24 hr
Filename: \\SERVER3\ENGPJECTS\ZION LUTHERAN CHURCH\DESIGN REPORTS\DRAINAGE\CURRENT SOURCE DOCS\25 yr - 24 hr.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Fdot-24
Rainfall Amount(in): 8.54

Time(hrs)	Print Inc(min)
-----------	----------------

INPUT VALUES

96.000 5.00

Name: Mean Annual
Filename: \\Server3\engprojects\Zion Lutheran Church\Design Reports\Drainage\Current Source Docs\Mean Annual.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 4.20

Time(hrs) Print Inc(min)
96.000 5.00

==== Routing Simulations =====

Name: 100 yr - 01 hr Hydrology Sim: 100 yr - 01 hr
Filename: \\SERVER3\ENGPROJECTS\ZION LUTHERAN CHURCH\DESIGN REPORTS\DRAINAGE\CURRENT SOURCE DOCS\100 yr - 01 hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 73.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs) Print Inc(min)
999.000 15.000

Group Run
BASE Yes

Name: 100 yr - 02 hr Hydrology Sim: 100 yr - 02 hr
Filename: \\SERVER3\ENGPROJECTS\ZION LUTHERAN CHURCH\DESIGN REPORTS\DRAINAGE\CURRENT SOURCE DOCS\100 yr - 02 hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 74.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs) Print Inc(min)
999.000 15.000

Group Run
BASE Yes

Name: 100 yr - 04 hr Hydrology Sim: 100 yr - 04 hr
Filename: \\SERVER3\ENGPROJECTS\ZION LUTHERAN CHURCH\DESIGN REPORTS\DRAINAGE\CURRENT SOURCE DOCS\100 yr - 04 hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 76.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs) Print Inc(min)
999.000 15.000

Group Run

INPUT VALUES

BASE Yes

Name: 100 yr - 08 hr Hydrology Sim: 100 yr - 08 hr
Filename: \\SERVER3\ENGPJECTS\ZION LUTHERAN CHURCH\DESIGN REPORTS\DRAINAGE\CURRENT SOURCE DOCS\100 yr - 08 hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 80.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
999.000	15.000

Group	Run
BASE	Yes

Name: 100 yr - 24 hr Hydrology Sim: 100 yr - 24 hr
Filename: \\SERVER3\ENGPJECTS\ZION LUTHERAN CHURCH\DESIGN REPORTS\DRAINAGE\CURRENT SOURCE DOCS\100 yr - 24 hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 96.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
999.000	15.000

Group	Run
BASE	Yes

Name: 25 yr - 24 hr Hydrology Sim: 25 yr - 24 hr
Filename: \\SERVER3\ENGPJECTS\ZION LUTHERAN CHURCH\DESIGN REPORTS\DRAINAGE\CURRENT SOURCE DOCS\25 yr - 24 hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 96.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
999.000	15.000

Group	Run
BASE	Yes

Name: Mean Annual Hydrology Sim: Mean Annual
Filename: \\SERVER3\ENGPJECTS\ZION LUTHERAN CHURCH\DESIGN REPORTS\DRAINAGE\CURRENT SOURCE DOCS\Mean Annual.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 96.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000

INPUT VALUES

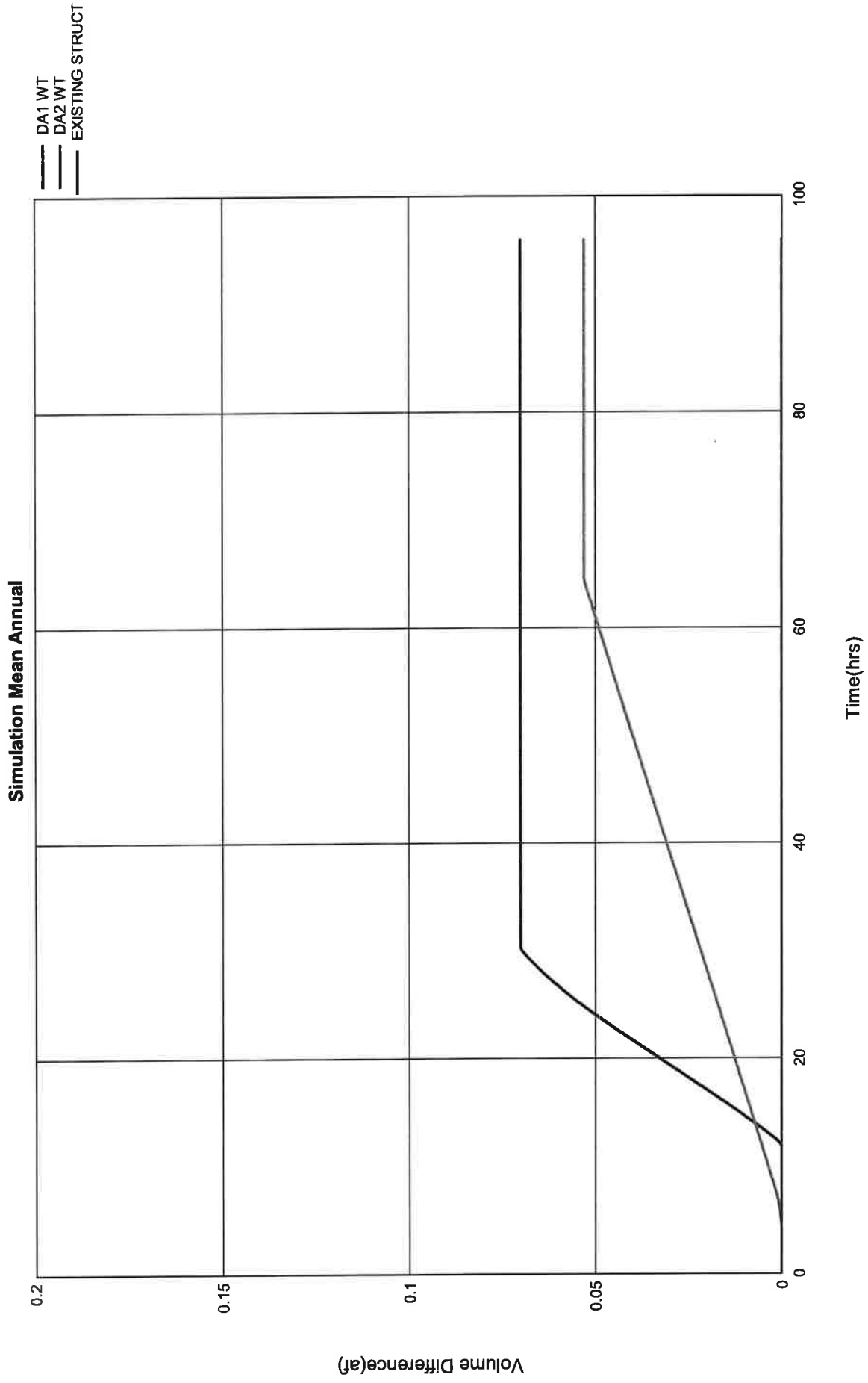
Boundary Stages:

Boundary Flows:

Time (hrs)	Print Inc (min)
999.000	15.000
Group	Run
BASE	Yes

INPUT VALUES

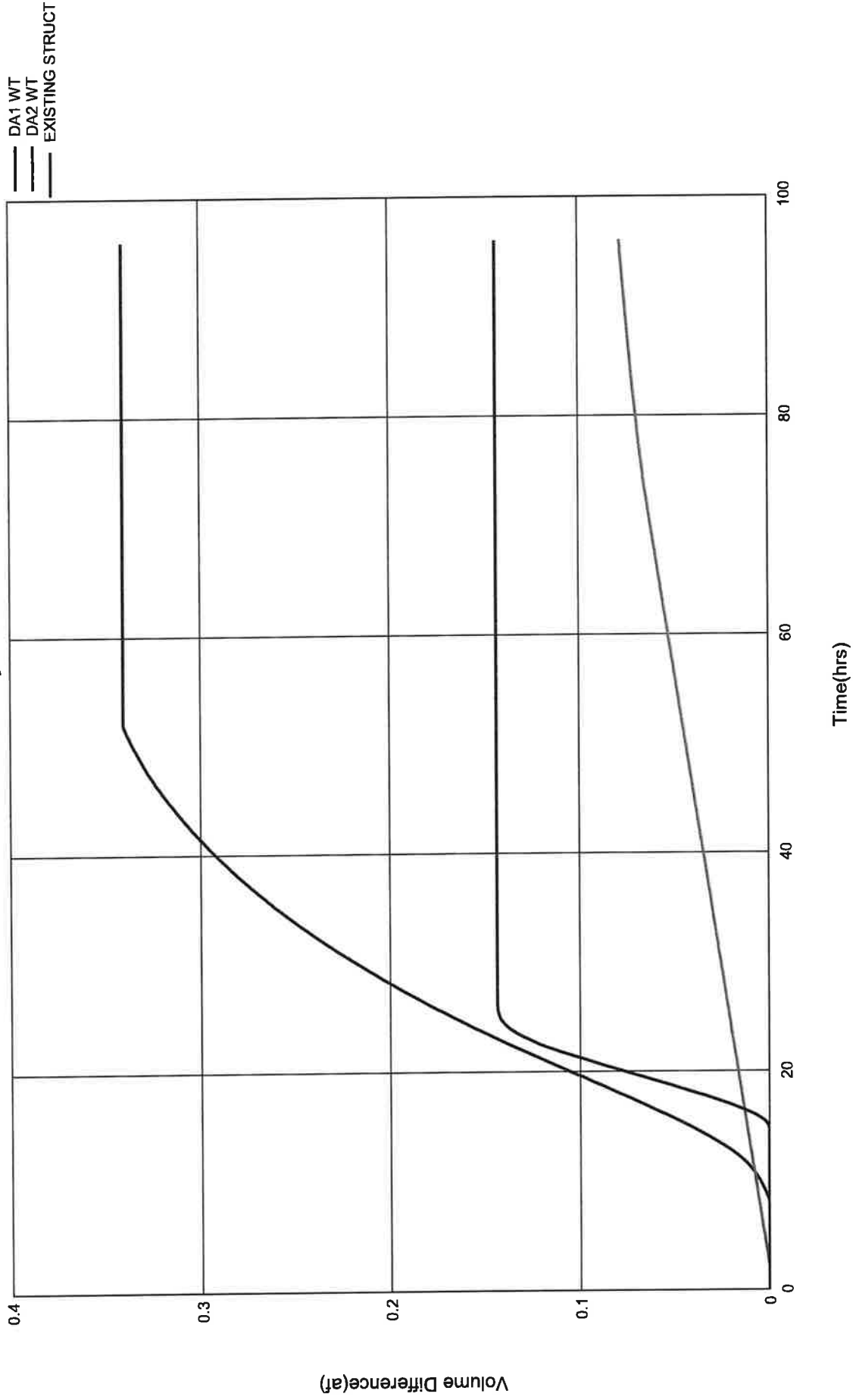
Zion Lutheran Church
3/16/2018



VOLUME MEAN ANNUAL

Zion Lutheran Church
3/16/2018

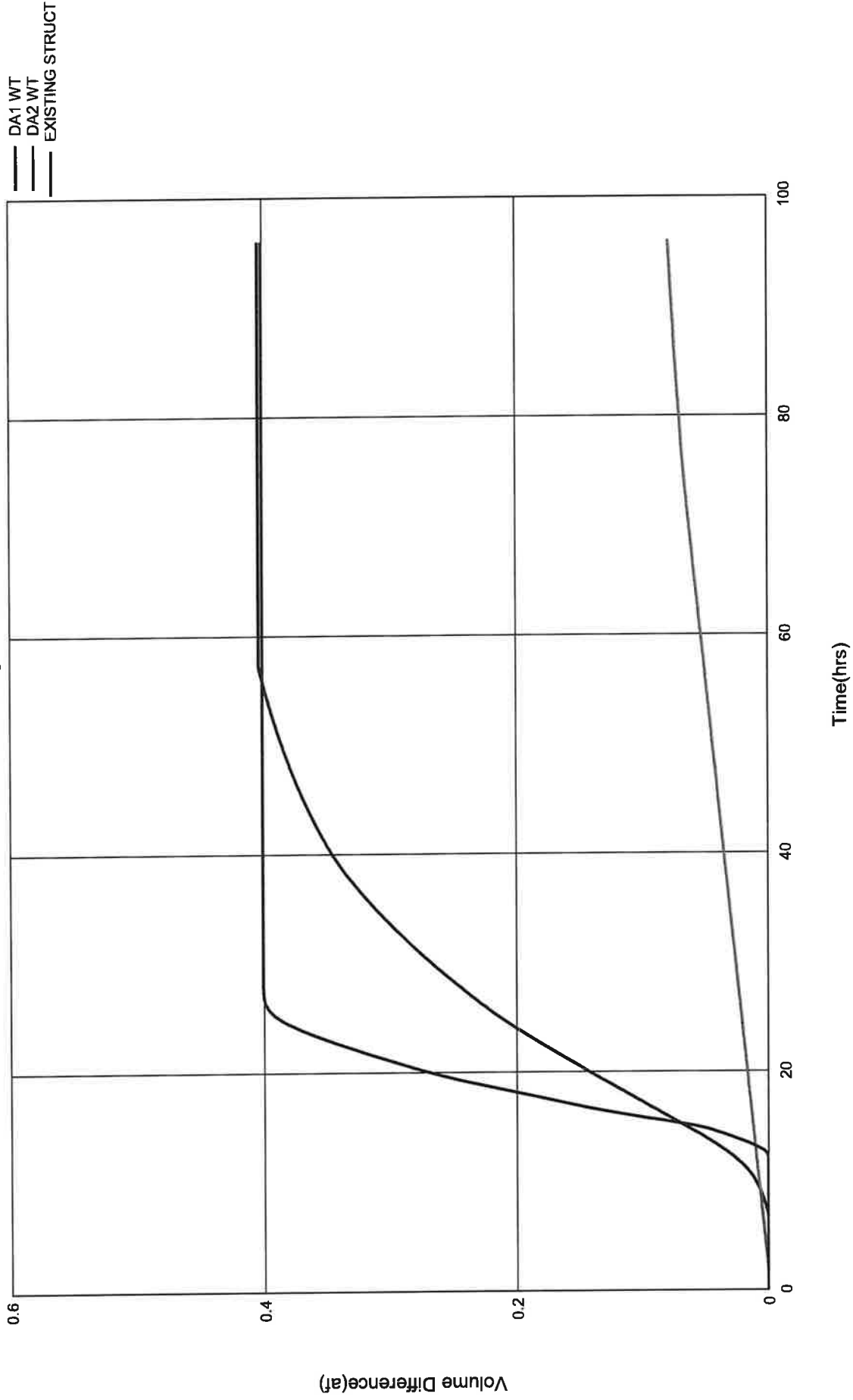
Simulation 25 yr - 24 hr



VOLUME 25YR -24 HR

Zion Lutheran Church
3/16/2018

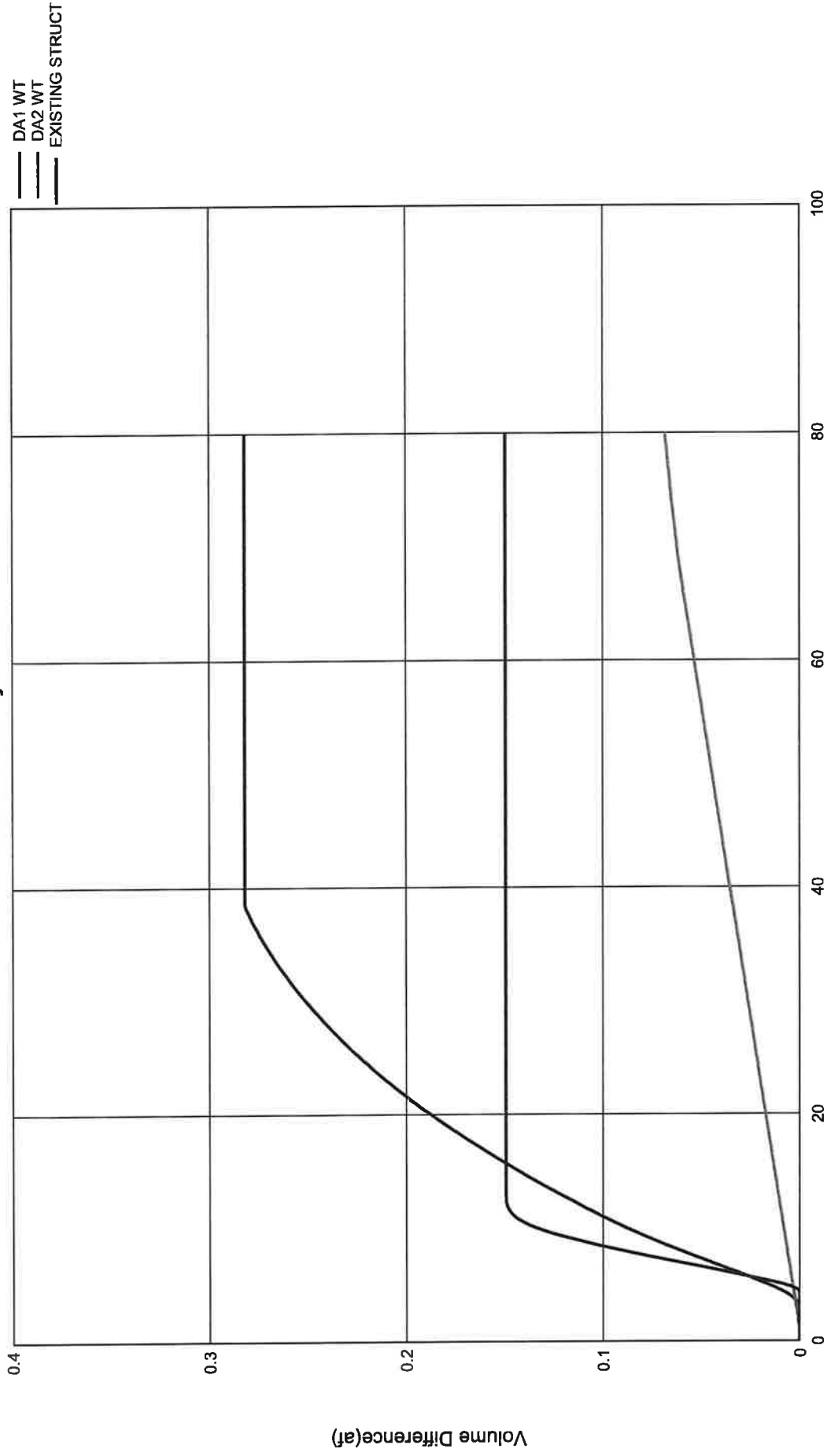
Simulation 100 yr - 24 hr



VOLUME 100YR -24 HR

Zion Lutheran Church
3/16/2018

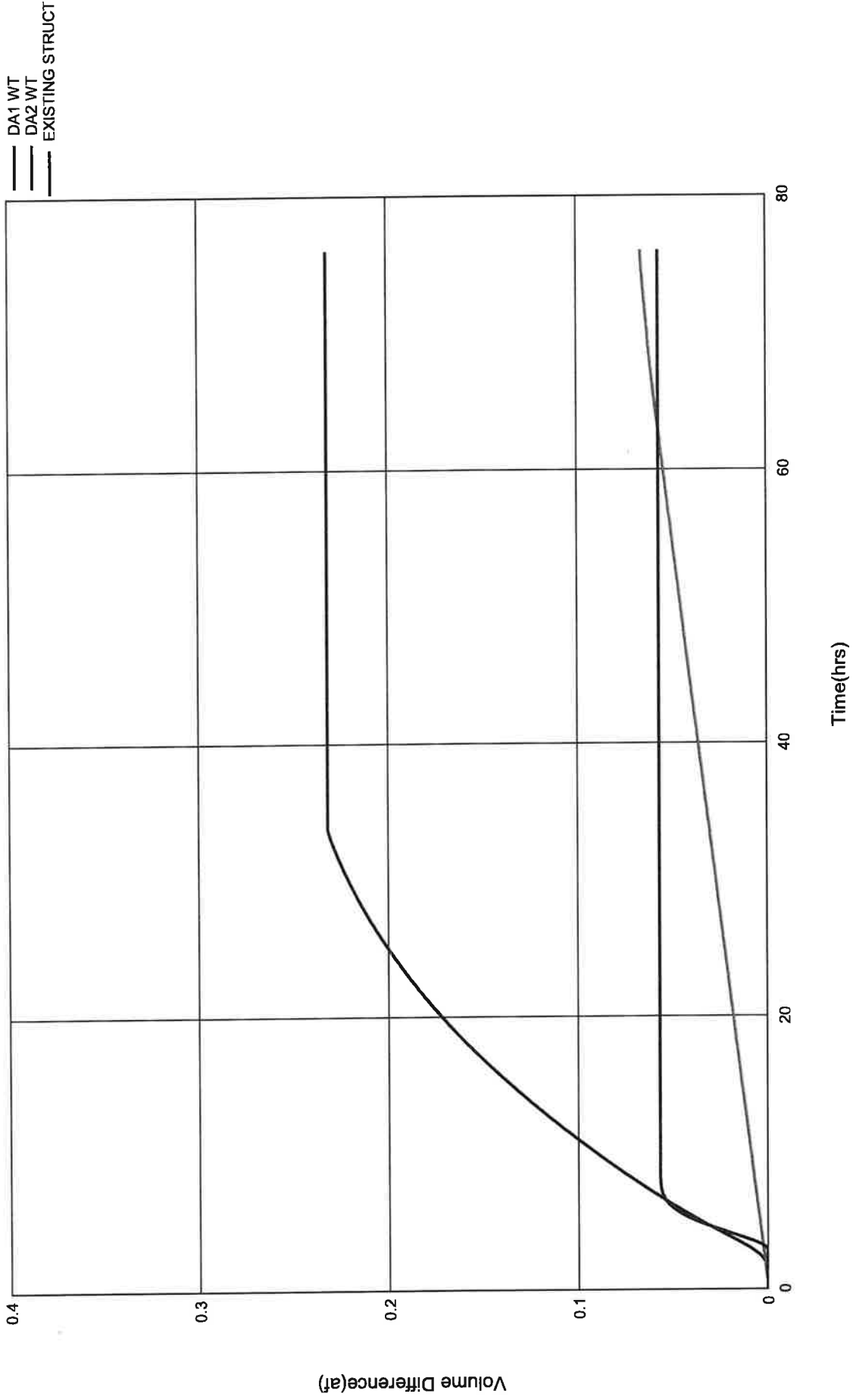
Simulation 100 yr - 08 hr



VOLUME 100YR -08 HR

Zion Lutheran Church
3/16/2018

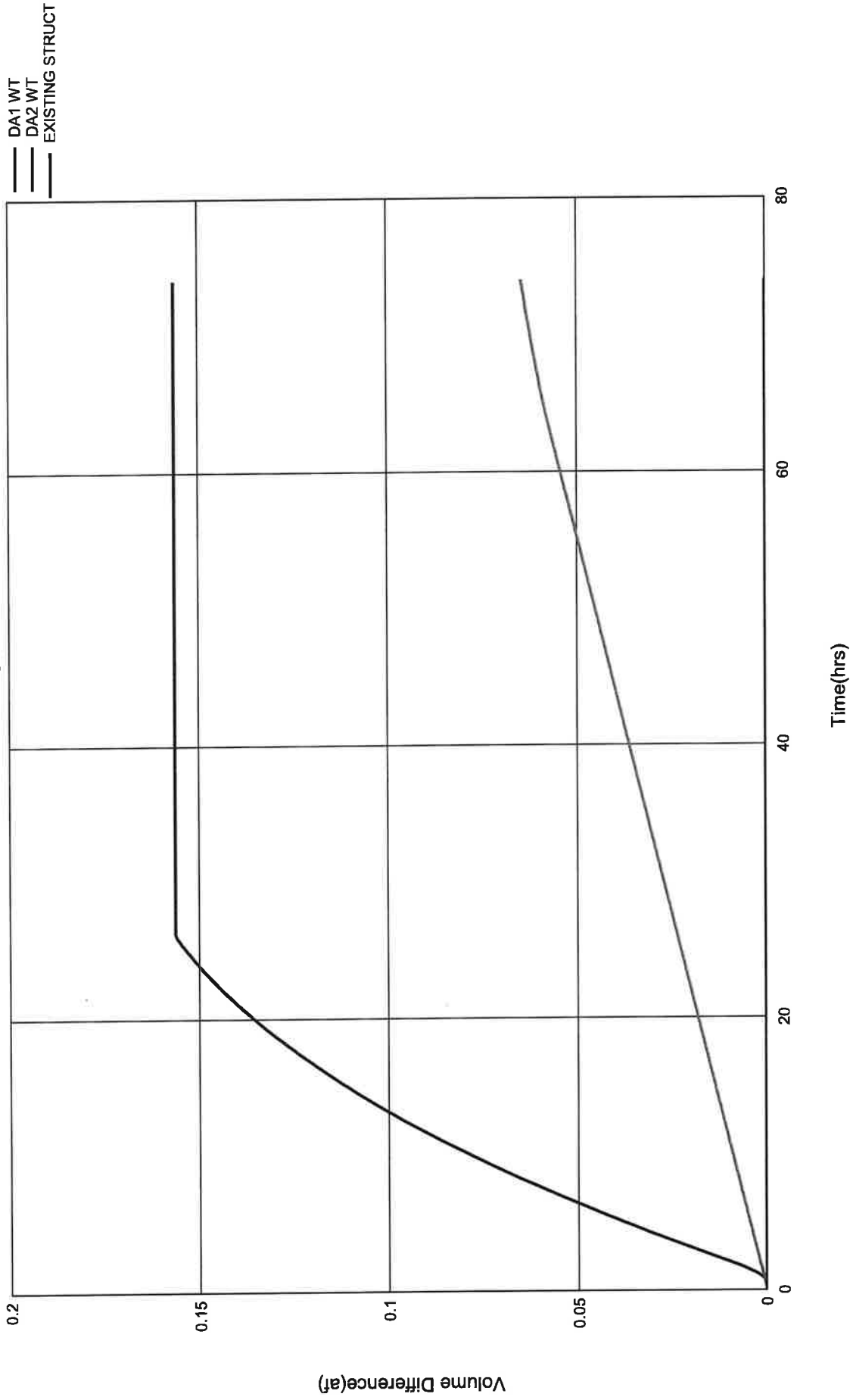
Simulation 100 yr - 04 hr



VOLUME 100YR -04HR

Zion Lutheran Church
3/16/2018

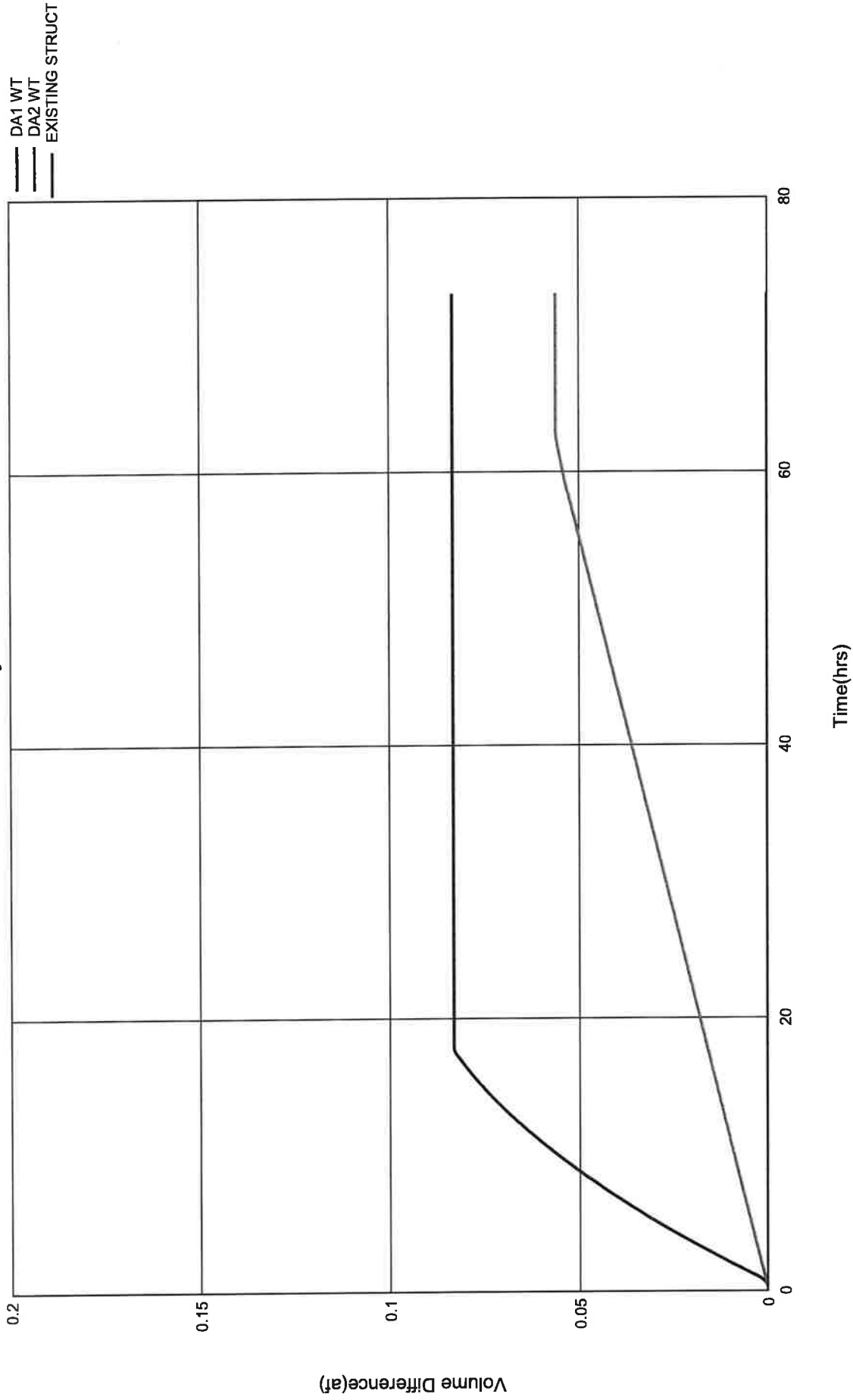
Simulation 100 yr - 02 hr



VOLUME 100YR -02HR

Zion Lutheran Church
3/16/2018

Simulation 100 yr - 01 hr



VOLUME 100YR -01HR

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	US Stage ft	Max Time DS Stage hrs	DS Stage ft	Max Stage ft
Barrel Weir	BASE	100 yr - 01 hr	0.83	0.82	0.012	0.83	124.91	1.57	123.33	123.33
Barrel Weir	BASE	100 yr - 02 hr	0.99	0.68	0.011	0.99	124.88	2.39	123.97	123.97
Barrel Weir	BASE	100 yr - 04 hr	2.15	0.61	0.010	2.15	124.87	4.02	124.65	124.65
Barrel Weir	BASE	100 yr - 08 hr	3.92	0.67	0.010	7.02	124.90	7.05	124.90	124.90
Barrel Weir	BASE	100 yr - 24 hr	11.91	0.22	0.006	15.38	124.95	15.37	124.94	124.94
Barrel Weir	BASE	25 yr - 24 hr	11.92	0.17	0.005	11.92	124.77	19.31	124.58	124.58
Barrel Weir	BASE	Mean Annual	16.65	0.02	0.001	16.65	124.70	19.71	122.54	122.54
DA-1 PERC	BASE	100 yr - 01 hr	1.57	0.09	-0.030	1.57	123.33	0.00	115.00	115.00
DA-1 PERC	BASE	100 yr - 02 hr	2.39	0.12	-0.030	2.39	123.97	0.00	115.00	115.00
DA-1 PERC	BASE	100 yr - 04 hr	4.02	0.16	-0.030	4.02	124.65	0.00	115.00	115.00
DA-1 PERC	BASE	100 yr - 08 hr	7.05	0.18	-0.030	7.05	124.90	0.00	115.00	115.00
DA-1 PERC	BASE	100 yr - 24 hr	15.37	0.19	-0.020	15.37	124.94	0.00	115.00	115.00
DA-1 PERC	BASE	25 yr - 24 hr	19.31	0.16	-0.030	19.31	124.58	0.00	115.00	115.00
DA-1 PERC	BASE	Mean Annual	19.71	0.05	-0.030	19.71	122.54	0.00	115.00	115.00
DA-2 OVERFLOW	BASE	100 yr - 01 hr	0.00	0.00	0.000	1.21	127.40	1.57	123.33	123.33
DA-2 OVERFLOW	BASE	100 yr - 02 hr	2.23	0.00	0.000	2.23	127.90	2.23	124.00	124.00
DA-2 OVERFLOW	BASE	100 yr - 04 hr	3.40	0.16	0.024	3.23	128.24	7.26	124.20	124.20
DA-2 OVERFLOW	BASE	100 yr - 08 hr	5.08	0.19	-0.023	5.08	128.29	10.93	124.33	124.33
DA-2 OVERFLOW	BASE	100 yr - 24 hr	15.00	0.11	0.001	15.00	128.18	26.20	124.27	124.27
DA-2 OVERFLOW	BASE	25 yr - 24 hr	16.27	0.05	0.001	16.27	128.09	14.69	124.15	124.15
DA-2 OVERFLOW	BASE	Mean Annual	0.00	0.00	0.000	20.28	126.77	19.71	122.54	122.54
DA-2 PERC	BASE	100 yr - 01 hr	0.18	0.01	-0.006	1.21	127.40	0.00	120.00	120.00
DA-2 PERC	BASE	100 yr - 02 hr	0.11	0.01	0.003	2.23	127.90	0.00	120.00	120.00
DA-2 PERC	BASE	100 yr - 04 hr	0.51	0.01	0.002	3.23	128.24	0.00	120.00	120.00
DA-2 PERC	BASE	100 yr - 08 hr	1.15	0.01	0.001	5.08	128.29	0.00	120.00	120.00
DA-2 PERC	BASE	100 yr - 24 hr	2.00	0.01	0.000	15.00	128.18	0.00	120.00	120.00
DA-2 PERC	BASE	25 yr - 24 hr	2.24	0.01	0.000	16.27	128.09	0.00	120.00	120.00
DA-2 PERC	BASE	Mean Annual	8.12	0.01	-0.010	20.28	126.77	0.00	120.00	120.00
EXISTING INLET	BASE	100 yr - 01 hr	0.00	0.00	0.000	1.57	123.33	0.00	122.11	122.11
EXISTING INLET	BASE	100 yr - 02 hr	0.00	0.00	0.000	2.39	123.97	0.00	122.11	122.11
EXISTING INLET	BASE	100 yr - 04 hr	0.00	0.00	0.000	4.02	124.65	0.00	122.11	122.11
EXISTING INLET	BASE	100 yr - 08 hr	7.05	0.03	-0.002	7.05	124.90	0.00	122.11	122.11
EXISTING INLET	BASE	100 yr - 24 hr	15.37	0.30	0.014	15.37	124.94	0.00	122.11	122.11
EXISTING INLET	BASE	25 yr - 24 hr	0.00	0.00	0.000	19.31	124.58	0.00	122.11	122.11
EXISTING INLET	BASE	Mean Annual	0.00	0.00	0.000	19.71	122.54	0.00	122.11	122.11
NEW ORIFICE	BASE	100 yr - 01 hr	0.00	0.00	0.000	1.57	123.33	0.00	122.11	122.11
NEW ORIFICE	BASE	100 yr - 02 hr	0.00	0.00	0.000	2.39	123.97	0.00	122.11	122.11
NEW ORIFICE	BASE	100 yr - 04 hr	4.02	0.26	-0.002	4.02	124.65	0.00	122.11	122.11
NEW ORIFICE	BASE	100 yr - 08 hr	7.05	0.33	-0.002	7.05	124.90	0.00	122.11	122.11
NEW ORIFICE	BASE	100 yr - 24 hr	15.37	0.34	-0.002	15.37	124.94	0.00	122.11	122.11
NEW ORIFICE	BASE	25 yr - 24 hr	19.31	0.24	0.002	19.31	124.58	0.00	122.11	122.11
NEW ORIFICE	BASE	Mean Annual	0.00	0.00	0.000	19.71	122.54	0.00	122.11	122.11

LINK MAX

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
BASIN 1	BASE	100 yr - 01 hr	1.57	123.33	125.00	0.0030	3773	0.83	2.55	1.57	0.09
BASIN 1	BASE	100 yr - 02 hr	2.39	123.97	125.00	0.0030	5169	0.99	2.21	2.39	0.12
BASIN 1	BASE	100 yr - 04 hr	4.02	124.65	125.00	0.0031	7112	2.52	2.87	4.02	0.42
BASIN 1	BASE	100 yr - 08 hr	7.05	124.90	125.00	-0.0035	7896	4.00	2.36	7.05	0.55
BASIN 1	BASE	100 yr - 24 hr	15.37	124.94	125.00	0.0038	8054	12.00	1.11	15.37	0.83
BASIN 1	BASE	25 yr - 24 hr	19.31	124.58	125.00	0.0031	6893	12.00	0.69	19.31	0.39
BASIN 1	BASE	Mean Annual	19.71	122.54	125.00	-0.0014	2254	12.33	0.28	19.71	0.05
DA1 WT	BASE	100 yr - 01 hr	0.00	115.00	115.00	0.0000	0	1.57	0.09	0.00	0.00
DA1 WT	BASE	100 yr - 02 hr	0.00	115.00	115.00	0.0000	0	2.39	0.12	0.00	0.00
DA1 WT	BASE	100 yr - 04 hr	0.00	115.00	115.00	0.0000	0	4.02	0.16	0.00	0.00
DA1 WT	BASE	100 yr - 08 hr	0.00	115.00	115.00	0.0000	0	7.05	0.18	0.00	0.00
DA1 WT	BASE	100 yr - 24 hr	0.00	115.00	115.00	0.0000	0	15.37	0.19	0.00	0.00
DA1 WT	BASE	25 yr - 24 hr	0.00	115.00	115.00	0.0000	0	19.31	0.16	0.00	0.00
DA1 WT	BASE	Mean Annual	0.00	115.00	115.00	0.0000	0	19.71	0.05	0.00	0.00
DA2 WT	BASE	100 yr - 01 hr	0.00	120.00	120.00	0.0000	0	0.18	0.01	0.00	0.00
DA2 WT	BASE	100 yr - 02 hr	0.00	120.00	120.00	0.0000	0	0.11	0.01	0.00	0.00
DA2 WT	BASE	100 yr - 04 hr	0.00	120.00	120.00	0.0000	0	0.51	0.01	0.00	0.00
DA2 WT	BASE	100 yr - 08 hr	0.00	120.00	120.00	0.0000	0	1.15	0.01	0.00	0.00
DA2 WT	BASE	100 yr - 24 hr	0.00	120.00	120.00	0.0000	0	2.00	0.01	0.00	0.00
DA2 WT	BASE	25 yr - 24 hr	0.00	120.00	120.00	0.0000	0	2.24	0.01	0.00	0.00
DA2 WT	BASE	Mean Annual	0.00	120.00	120.00	0.0000	0	8.12	0.01	0.00	0.00
EXISTING STRUCT	BASE	100 yr - 01 hr	0.00	122.11	122.11	0.0000	0	0.00	0.00	0.00	0.00
EXISTING STRUCT	BASE	100 yr - 02 hr	0.00	122.11	122.11	0.0000	0	0.00	0.00	0.00	0.00
EXISTING STRUCT	BASE	100 yr - 04 hr	0.00	122.11	122.11	0.0000	0	4.02	0.26	0.00	0.00
EXISTING STRUCT	BASE	100 yr - 08 hr	0.00	122.11	122.11	0.0000	0	7.05	0.36	0.00	0.00
EXISTING STRUCT	BASE	100 yr - 24 hr	0.00	122.11	122.11	0.0000	0	15.37	0.64	0.00	0.00
EXISTING STRUCT	BASE	25 yr - 24 hr	0.00	122.11	122.11	0.0000	0	19.31	0.24	0.00	0.00
EXISTING STRUCT	BASE	Mean Annual	0.00	122.11	122.11	0.0000	0	0.00	0.00	0.00	0.00
PRE DA-1	BASE	100 yr - 01 hr	0.00	125.00	125.00	0.0000	0	0.92	0.65	0.00	0.00
PRE DA-1	BASE	100 yr - 02 hr	0.00	125.00	125.00	0.0000	0	1.33	0.65	0.00	0.00
PRE DA-1	BASE	100 yr - 04 hr	0.00	125.00	125.00	0.0000	0	3.00	1.19	0.00	0.00
PRE DA-1	BASE	100 yr - 08 hr	0.00	125.00	125.00	0.0000	0	4.08	1.36	0.00	0.00
PRE DA-1	BASE	100 yr - 24 hr	0.00	125.00	125.00	0.0000	0	12.08	0.66	0.00	0.00
PRE DA-1	BASE	25 yr - 24 hr	0.00	125.00	125.00	0.0000	0	15.08	0.35	0.00	0.00
PRE DA-1	BASE	Mean Annual	0.00	125.00	125.00	0.0000	0	13.58	0.03	0.00	0.00
RAIN BARRELS	BASE	100 yr - 01 hr	0.83	124.91	125.00	0.0050	334	0.58	1.76	0.83	0.82
RAIN BARRELS	BASE	100 yr - 02 hr	0.99	124.88	125.00	0.0050	334	0.83	1.29	0.99	0.68
RAIN BARRELS	BASE	100 yr - 04 hr	2.15	124.87	125.00	0.0050	334	2.00	0.70	2.15	0.61
RAIN BARRELS	BASE	100 yr - 08 hr	7.02	124.90	125.00	0.0050	334	3.58	0.67	3.92	0.67
RAIN BARRELS	BASE	100 yr - 24 hr	15.38	124.95	125.00	0.0050	334	11.50	0.22	11.91	0.22
RAIN BARRELS	BASE	25 yr - 24 hr	11.92	124.77	125.00	0.0050	334	11.50	0.17	11.92	0.17
RAIN BARRELS	BASE	Mean Annual	16.65	124.70	125.00	0.0050	334	12.00	0.61	16.65	0.02
UNDERGROUND 2	BASE	100 yr - 01 hr	1.21	127.40	128.33	0.0018	1264	0.58	1.53	0.18	0.01
UNDERGROUND 2	BASE	100 yr - 02 hr	2.23	127.90	128.33	0.0020	1264	0.83	1.17	2.23	0.01
UNDERGROUND 2	BASE	100 yr - 04 hr	3.23	128.24	128.33	-0.0032	1267	2.00	0.64	3.40	0.17
UNDERGROUND 2	BASE	100 yr - 08 hr	5.08	128.29	128.33	0.0024	1267	4.00	0.63	5.08	0.20
UNDERGROUND 2	BASE	100 yr - 24 hr	15.00	128.18	128.33	0.0031	1274	12.00	0.21	15.00	0.13
UNDERGROUND 2	BASE	25 yr - 24 hr	16.27	128.09	128.33	0.0026	1277	12.00	0.16	16.27	0.07
UNDERGROUND 2	BASE	Mean Annual	20.28	126.77	128.33	0.0011	1264	12.00	0.53	8.12	0.01

NODE MAX

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100 yr - 01 hr	Buildings	BASE	0.56	1.78	4.294	3086
100 yr - 02 hr	Buildings	BASE	0.80	1.30	5.293	3804
100 yr - 04 hr	Buildings	BASE	2.00	0.70	6.611	4752
100 yr - 08 hr	Buildings	BASE	3.78	0.67	7.889	5670
100 yr - 24 hr	Buildings	BASE	11.71	0.22	10.925	7853
25 yr - 24 hr	Buildings	BASE	11.62	0.17	8.429	6058
Mean Annual	Buildings	BASE	12.00	0.61	4.095	2943
100 yr - 01 hr	POST DA-1	BASE	0.81	1.75	0.517	3094
100 yr - 02 hr	POST DA-1	BASE	0.93	1.56	0.933	5585
100 yr - 04 hr	POST DA-1	BASE	2.55	1.85	1.615	9670
100 yr - 08 hr	POST DA-1	BASE	4.05	2.23	2.375	14222
100 yr - 24 hr	POST DA-1	BASE	12.03	0.89	4.472	26782
25 yr - 24 hr	POST DA-1	BASE	12.03	0.53	2.723	16312
Mean Annual	POST DA-1	BASE	12.30	0.28	0.445	2666
100 yr - 01 hr	POST DA-2	BASE	0.58	1.53	3.532	2436
100 yr - 02 hr	POST DA-2	BASE	0.82	1.19	4.508	3109
100 yr - 04 hr	POST DA-2	BASE	2.00	0.64	5.805	4004
100 yr - 08 hr	POST DA-2	BASE	4.00	0.63	7.070	4876
100 yr - 24 hr	POST DA-2	BASE	12.00	0.21	10.085	6956
25 yr - 24 hr	POST DA-2	BASE	12.00	0.16	7.604	5245
Mean Annual	POST DA-2	BASE	12.02	0.53	3.337	2302
100 yr - 01 hr	PRE DA-1	BASE	0.88	0.65	0.184	1263
100 yr - 02 hr	PRE DA-1	BASE	1.31	0.65	0.439	3014
100 yr - 04 hr	PRE DA-1	BASE	3.03	1.20	0.907	6222
100 yr - 08 hr	PRE DA-1	BASE	4.08	1.36	1.475	10120
100 yr - 24 hr	PRE DA-1	BASE	12.09	0.66	3.161	21685
25 yr - 24 hr	PRE DA-1	BASE	15.03	0.35	1.746	11980
Mean Annual	PRE DA-1	BASE	13.60	0.03	0.146	1000

Simulation	Basin	Group	Time Max hrs	Flow Max cfs	Volume in	Volume ft3
100 yr - 01 hr	Buildings	BASE	0.56	1.78	4.294	3086
100 yr - 02 hr	Buildings	BASE	0.80	1.30	5.293	3804
100 yr - 04 hr	Buildings	BASE	2.00	0.70	6.611	4752
100 yr - 08 hr	Buildings	BASE	3.78	0.67	7.889	5670
100 yr - 24 hr	Buildings	BASE	11.71	0.22	10.925	7853
25 yr - 24 hr	Buildings	BASE	11.62	0.17	8.429	6058
Mean Annual	Buildings	BASE	12.00	0.61	4.095	2943
100 yr - 01 hr	POST DA-1	BASE	0.81	1.75	0.517	3094
100 yr - 02 hr	POST DA-1	BASE	0.93	1.56	0.933	5585
100 yr - 04 hr	POST DA-1	BASE	2.55	1.85	1.615	9670
100 yr - 08 hr	POST DA-1	BASE	4.05	2.23	2.375	14222
100 yr - 24 hr	POST DA-1	BASE	12.03	0.89	4.472	26782
25 yr - 24 hr	POST DA-1	BASE	12.03	0.53	2.723	16312
Mean Annual	POST DA-1	BASE	12.30	0.28	0.445	2666
100 yr - 01 hr	POST DA-2	BASE	0.58	1.53	3.532	2436
100 yr - 02 hr	POST DA-2	BASE	0.82	1.19	4.508	3109
100 yr - 04 hr	POST DA-2	BASE	2.00	0.64	5.805	4004
100 yr - 08 hr	POST DA-2	BASE	4.00	0.63	7.070	4876
100 yr - 24 hr	POST DA-2	BASE	12.00	0.21	10.085	6956
25 yr - 24 hr	POST DA-2	BASE	12.00	0.16	7.604	5245
Mean Annual	POST DA-2	BASE	12.02	0.53	3.337	2302
100 yr - 01 hr	PRE DA-1	BASE	0.88	0.65	0.184	1263
100 yr - 02 hr	PRE DA-1	BASE	1.31	0.65	0.439	3014
100 yr - 04 hr	PRE DA-1	BASE	3.03	1.20	0.907	6222
100 yr - 08 hr	PRE DA-1	BASE	4.08	1.36	1.475	10120
100 yr - 24 hr	PRE DA-1	BASE	12.09	0.66	3.161	21685
25 yr - 24 hr	PRE DA-1	BASE	15.03	0.35	1.746	11980
Mean Annual	PRE DA-1	BASE	13.60	0.03	0.146	1000

Attachment D

Recovery Analysis

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100 yr - 24 hr	BASIN 1	BASE	0.00	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	0.26	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	0.50	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	0.77	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	1.02	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	1.25	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	1.51	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	1.75	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	2.00	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	2.25	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	2.50	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	2.76	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	3.00	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	3.25	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	3.51	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	3.75	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	4.00	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	4.25	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	4.50	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	4.76	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	5.00	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	5.25	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	5.50	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	5.75	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	6.00	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	6.25	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	6.50	122.00	125.00	1308	0.00	0.00	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	6.75	122.00	125.00	1308	0.01	0.01	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	7.00	122.00	125.00	1308	0.03	0.03	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	7.25	122.00	125.00	1314	0.04	0.03	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	7.50	122.02	125.00	1337	0.06	0.03	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	7.75	122.04	125.00	1377	0.07	0.03	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	8.00	122.07	125.00	1430	0.09	0.03	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	8.25	122.12	125.00	1509	0.13	0.03	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	8.50	122.18	125.00	1629	0.17	0.04	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	8.75	122.26	125.00	1768	0.21	0.04	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	9.00	122.35	125.00	1921	0.24	0.04	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	9.25	122.44	125.00	2079	0.26	0.05	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	9.50	122.54	125.00	2243	0.29	0.05	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	9.75	122.64	125.00	2416	0.41	0.06	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	10.00	122.77	125.00	2657	0.47	0.06	0.0	0.0
100 yr - 24 hr	BASIN 1	BASE	10.25	122.92	125.00	2917	0.60	0.07	0.1	0.0
100 yr - 24 hr	BASIN 1	BASE	10.50	123.09	125.00	3248	0.67	0.08	0.1	0.0
100 yr - 24 hr	BASIN 1	BASE	10.75	123.25	125.00	3603	0.72	0.08	0.1	0.0
100 yr - 24 hr	BASIN 1	BASE	11.01	123.41	125.00	3943	0.76	0.09	0.1	0.0
100 yr - 24 hr	BASIN 1	BASE	11.25	123.57	125.00	4286	0.92	0.10	0.1	0.0
100 yr - 24 hr	BASIN 1	BASE	11.50	123.74	125.00	4666	1.01	0.11	0.1	0.0
100 yr - 24 hr	BASIN 1	BASE	11.75	123.91	125.00	5041	1.06	0.12	0.2	0.0
100 yr - 24 hr	BASIN 1	BASE	12.00	124.08	125.00	5451	1.11	0.13	0.2	0.0
100 yr - 24 hr	BASIN 1	BASE	12.25	124.22	125.00	5823	0.94	0.16	0.2	0.0
100 yr - 24 hr	BASIN 1	BASE	12.50	124.33	125.00	6114	0.90	0.23	0.2	0.0
100 yr - 24 hr	BASIN 1	BASE	12.76	124.43	125.00	6407	0.92	0.30	0.2	0.0
100 yr - 24 hr	BASIN 1	BASE	13.00	124.51	125.00	6665	0.95	0.36	0.3	0.0
100 yr - 24 hr	BASIN 1	BASE	13.26	124.58	125.00	6896	0.90	0.40	0.3	0.1
100 yr - 24 hr	BASIN 1	BASE	13.50	124.64	125.00	7085	0.88	0.42	0.3	0.1
100 yr - 24 hr	BASIN 1	BASE	13.75	124.70	125.00	7259	0.88	0.44	0.3	0.1
100 yr - 24 hr	BASIN 1	BASE	14.01	124.75	125.00	7425	0.88	0.46	0.3	0.1
100 yr - 24 hr	BASIN 1	BASE	14.26	124.80	125.00	7580	0.89	0.48	0.4	0.1
100 yr - 24 hr	BASIN 1	BASE	14.51	124.85	125.00	7729	0.90	0.50	0.4	0.1
100 yr - 24 hr	BASIN 1	BASE	14.77	124.90	125.00	7877	0.91	0.53	0.4	0.1
100 yr - 24 hr	BASIN 1	BASE	15.02	124.93	125.00	8008	0.92	0.73	0.4	0.1
100 yr - 24 hr	BASIN 1	BASE	15.27	124.94	125.00	8052	0.84	0.82	0.4	0.1
100 yr - 24 hr	BASIN 1	BASE	15.52	124.94	125.00	8052	0.81	0.82	0.4	0.2
100 yr - 24 hr	BASIN 1	BASE	15.77	124.94	125.00	8048	0.80	0.81	0.5	0.2
100 yr - 24 hr	BASIN 1	BASE	16.02	124.94	125.00	8045	0.80	0.81	0.5	0.2
100 yr - 24 hr	BASIN 1	BASE	16.27	124.93	125.00	8030	0.71	0.77	0.5	0.2
100 yr - 24 hr	BASIN 1	BASE	16.52	124.93	125.00	8005	0.68	0.72	0.5	0.2
100 yr - 24 hr	BASIN 1	BASE	16.77	124.92	125.00	7989	0.66	0.69	0.5	0.2
100 yr - 24 hr	BASIN 1	BASE	17.02	124.92	125.00	7980	0.66	0.67	0.5	0.3
100 yr - 24 hr	BASIN 1	BASE	17.27	124.92	125.00	7976	0.66	0.67	0.5	0.3
100 yr - 24 hr	BASIN 1	BASE	17.52	124.92	125.00	7974	0.66	0.66	0.6	0.3
100 yr - 24 hr	BASIN 1	BASE	17.77	124.92	125.00	7974	0.66	0.66	0.6	0.3
100 yr - 24 hr	BASIN 1	BASE	18.02	124.92	125.00	7975	0.67	0.66	0.6	0.3
100 yr - 24 hr	BASIN 1	BASE	18.27	124.92	125.00	7976	0.67	0.67	0.6	0.3
100 yr - 24 hr	BASIN 1	BASE	18.52	124.92	125.00	7977	0.67	0.67	0.6	0.3
100 yr - 24 hr	BASIN 1	BASE	18.77	124.92	125.00	7979	0.67	0.67	0.6	0.3
100 yr - 24 hr	BASIN 1	BASE	19.02	124.92	125.00	7980	0.67	0.67	0.6	0.4
100 yr - 24 hr	BASIN 1	BASE	19.27	124.92	125.00	7965	0.58	0.65	0.7	0.4
100 yr - 24 hr	BASIN 1	BASE	19.52	124.91	125.00	7936	0.54	0.60	0.7	0.4
100 yr - 24 hr	BASIN 1	BASE	19.77	124.91	125.00	7913	0.52	0.57	0.7	0.4
100 yr - 24 hr	BASIN 1	BASE	20.02	124.90	125.00	7897	0.52	0.55	0.7	0.4
100 yr - 24 hr	BASIN 1	BASE	20.27	124.90	125.00	7887	0.52	0.54	0.7	0.4
100 yr - 24 hr	BASIN 1	BASE	20.52	124.90	125.00	7880	0.52	0.53	0.7	0.4
100 yr - 24 hr	BASIN 1	BASE	20.77	124.90	125.00	7875	0.52	0.53	0.7	0.4

100 YR 24 HR TIME SERIES (FOR RECOVERY)

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100 yr - 24 hr	BASIN 1	BASE	21.02	124.89	125.00	7872	0.51	0.52	0.7	0.5
100 yr - 24 hr	BASIN 1	BASE	21.27	124.89	125.00	7851	0.42	0.51	0.7	0.5
100 yr - 24 hr	BASIN 1	BASE	21.52	124.88	125.00	7809	0.38	0.51	0.8	0.5
100 yr - 24 hr	BASIN 1	BASE	21.77	124.86	125.00	7760	0.36	0.50	0.8	0.5
100 yr - 24 hr	BASIN 1	BASE	22.02	124.84	125.00	7709	0.35	0.50	0.8	0.5
100 yr - 24 hr	BASIN 1	BASE	22.27	124.82	125.00	7641	0.26	0.49	0.8	0.5
100 yr - 24 hr	BASIN 1	BASE	22.52	124.79	125.00	7547	0.21	0.48	0.8	0.5
100 yr - 24 hr	BASIN 1	BASE	22.77	124.76	125.00	7446	0.20	0.47	0.8	0.5
100 yr - 24 hr	BASIN 1	BASE	23.02	124.73	125.00	7344	0.19	0.45	0.8	0.5
100 yr - 24 hr	BASIN 1	BASE	23.27	124.69	125.00	7243	0.18	0.44	0.8	0.5
100 yr - 24 hr	BASIN 1	BASE	23.52	124.66	125.00	7142	0.17	0.43	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	23.77	124.63	125.00	7044	0.17	0.42	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	24.02	124.60	125.00	6949	0.17	0.40	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	24.27	124.56	125.00	6839	0.07	0.39	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	24.52	124.52	125.00	6701	0.03	0.37	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	24.77	124.48	125.00	6559	0.01	0.34	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	25.02	124.43	125.00	6423	0.00	0.30	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	25.27	124.39	125.00	6296	0.00	0.28	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	25.52	124.35	125.00	6178	0.00	0.25	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	25.77	124.32	125.00	6074	0.00	0.22	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	26.02	124.29	125.00	5988	0.00	0.20	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	26.27	124.26	125.00	5918	0.00	0.18	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	26.52	124.23	125.00	5848	0.00	0.17	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	26.77	124.21	125.00	5782	0.00	0.16	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	27.02	124.18	125.00	5720	0.00	0.15	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	27.27	124.16	125.00	5661	0.00	0.14	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	27.52	124.14	125.00	5604	0.00	0.13	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	27.77	124.12	125.00	5548	0.00	0.13	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	28.02	124.10	125.00	5493	0.00	0.13	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	28.27	124.08	125.00	5437	0.00	0.13	0.8	0.6
100 yr - 24 hr	BASIN 1	BASE	28.52	124.06	125.00	5381	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	28.77	124.03	125.00	5325	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	29.02	124.01	125.00	5268	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	29.27	123.99	125.00	5212	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	29.52	123.97	125.00	5167	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	29.77	123.95	125.00	5122	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	30.02	123.93	125.00	5076	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	30.27	123.91	125.00	5031	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	30.52	123.89	125.00	4986	0.00	0.12	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	30.77	123.87	125.00	4940	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	31.02	123.85	125.00	4895	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	31.27	123.83	125.00	4849	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	31.52	123.81	125.00	4804	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	31.77	123.78	125.00	4759	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	32.02	123.76	125.00	4713	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	32.27	123.74	125.00	4668	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	32.52	123.72	125.00	4623	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	32.77	123.70	125.00	4577	0.00	0.11	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	33.02	123.68	125.00	4532	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	33.27	123.66	125.00	4487	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	33.52	123.64	125.00	4441	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	33.77	123.62	125.00	4396	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	34.02	123.60	125.00	4350	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	34.27	123.58	125.00	4305	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	34.52	123.56	125.00	4260	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	34.77	123.53	125.00	4214	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	35.02	123.51	125.00	4169	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	35.27	123.49	125.00	4124	0.00	0.10	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	35.52	123.47	125.00	4078	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	35.77	123.45	125.00	4033	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	36.02	123.43	125.00	3987	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	36.27	123.41	125.00	3942	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	36.52	123.39	125.00	3897	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	36.77	123.37	125.00	3851	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	37.02	123.35	125.00	3806	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	37.27	123.33	125.00	3761	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	37.52	123.31	125.00	3715	0.00	0.09	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	37.77	123.28	125.00	3670	0.00	0.08	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	38.02	123.26	125.00	3625	0.00	0.08	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	38.27	123.24	125.00	3580	0.00	0.08	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	38.52	123.22	125.00	3538	0.00	0.08	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	38.77	123.20	125.00	3496	0.00	0.07	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	39.02	123.19	125.00	3455	0.00	0.07	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	39.27	123.17	125.00	3415	0.00	0.07	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	39.52	123.15	125.00	3375	0.00	0.07	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	39.77	123.13	125.00	3336	0.00	0.07	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	40.02	123.11	125.00	3297	0.00	0.07	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	40.27	123.10	125.00	3258	0.00	0.06	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	40.52	123.08	125.00	3220	0.00	0.06	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	40.77	123.06	125.00	3182	0.00	0.06	0.8	0.7
100 yr - 24 hr	BASIN 1	BASE	41.02	123.04	125.00	3144	0.00	0.06	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	41.27	123.03	125.00	3107	0.00	0.06	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	41.52	123.01	125.00	3070	0.00	0.06	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	41.77	122.99	125.00	3036	0.00	0.06	0.8	0.8

100 YR 24 HR TIME SERIES (FOR RECOVERY)

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100 yr - 24 hr	BASIN 1	BASE	42.02	122.98	125.00	3006	0.00	0.06	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	42.27	122.96	125.00	2977	0.00	0.06	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	42.52	122.94	125.00	2948	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	42.77	122.92	125.00	2919	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	43.02	122.91	125.00	2890	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	43.27	122.89	125.00	2862	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	43.52	122.88	125.00	2833	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	43.77	122.86	125.00	2805	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	44.02	122.84	125.00	2777	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	44.27	122.83	125.00	2749	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	44.52	122.81	125.00	2721	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	44.77	122.79	125.00	2693	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	45.02	122.78	125.00	2665	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	45.27	122.76	125.00	2637	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	45.52	122.75	125.00	2610	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	45.77	122.73	125.00	2582	0.00	0.05	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	46.02	122.72	125.00	2555	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	46.27	122.70	125.00	2527	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	46.52	122.68	125.00	2500	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	46.77	122.67	125.00	2472	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	47.02	122.65	125.00	2445	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	47.27	122.64	125.00	2418	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	47.52	122.62	125.00	2391	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	47.77	122.61	125.00	2364	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	48.02	122.59	125.00	2337	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	48.27	122.58	125.00	2310	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	48.52	122.56	125.00	2282	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	48.77	122.54	125.00	2255	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	49.02	122.53	125.00	2228	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	49.27	122.51	125.00	2201	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	49.52	122.50	125.00	2174	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	49.77	122.48	125.00	2147	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	50.02	122.47	125.00	2120	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	50.27	122.45	125.00	2093	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	50.52	122.44	125.00	2066	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	50.77	122.42	125.00	2039	0.00	0.04	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	51.02	122.40	125.00	2011	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	51.27	122.39	125.00	1984	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	51.52	122.37	125.00	1957	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	51.77	122.36	125.00	1930	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	52.02	122.34	125.00	1902	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	52.27	122.33	125.00	1875	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	52.52	122.31	125.00	1847	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	52.77	122.29	125.00	1820	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	53.02	122.28	125.00	1792	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	53.27	122.26	125.00	1764	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	53.52	122.25	125.00	1736	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	53.77	122.23	125.00	1708	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	54.02	122.21	125.00	1680	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	54.27	122.20	125.00	1652	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	54.52	122.18	125.00	1623	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	54.77	122.16	125.00	1595	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	55.02	122.15	125.00	1566	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	55.27	122.13	125.00	1537	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	55.52	122.12	125.00	1508	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	55.77	122.10	125.00	1479	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	56.02	122.08	125.00	1450	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	56.27	122.06	125.00	1420	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	56.52	122.05	125.00	1390	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	56.77	122.03	125.00	1360	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	57.02	122.01	125.00	1330	0.00	0.03	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	57.27	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	57.52	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	57.77	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	58.02	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	58.27	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	58.52	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	58.77	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	59.02	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	59.27	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	59.52	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	59.77	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	60.02	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	60.27	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	60.52	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	60.77	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	61.02	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	61.27	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	61.52	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	61.77	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	62.02	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	62.27	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	62.52	122.00	125.00	1308	0.00	0.00	0.8	0.8
100 yr - 24 hr	BASIN 1	BASE	62.77	122.00	125.00	1308	0.00	0.00	0.8	0.8

100 YR 24 HR TIME SERIES (FOR RECOVERY)

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100 yr - 24 hr	UNDERGROUND 2	BASE	8.50	126.44	128.33	1264	0.12	0.01	0.0	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	8.75	126.51	128.33	1264	0.12	0.01	0.0	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	9.00	126.59	128.33	1264	0.12	0.01	0.0	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	9.25	126.67	128.33	1264	0.12	0.01	0.0	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	9.50	126.75	128.33	1264	0.12	0.01	0.0	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	9.75	126.83	128.33	1264	0.12	0.01	0.0	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	10.00	126.91	128.33	1264	0.12	0.01	0.0	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	10.25	127.00	128.33	1264	0.16	0.01	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	10.50	127.11	128.33	1264	0.16	0.01	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	10.75	127.22	128.33	1264	0.16	0.01	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	11.01	127.33	128.33	1264	0.17	0.01	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	11.25	127.45	128.33	1264	0.20	0.01	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	11.50	127.59	128.33	1264	0.21	0.01	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	11.75	127.73	128.33	1264	0.21	0.01	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	12.00	127.87	128.33	1267	0.21	0.01	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	12.25	127.98	128.33	1275	0.15	0.02	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	12.50	128.06	128.33	1277	0.15	0.05	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	12.76	128.12	128.33	1277	0.15	0.08	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	13.00	128.15	128.33	1276	0.15	0.11	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	13.26	128.17	128.33	1275	0.13	0.12	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	13.50	128.17	128.33	1275	0.13	0.12	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	13.75	128.18	128.33	1275	0.13	0.12	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	14.01	128.18	128.33	1274	0.13	0.12	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	14.26	128.18	128.33	1274	0.13	0.12	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	14.51	128.18	128.33	1274	0.13	0.12	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	14.77	128.18	128.33	1274	0.13	0.13	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	15.02	128.18	128.33	1274	0.12	0.13	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	15.27	128.17	128.33	1275	0.11	0.12	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	15.52	128.17	128.33	1275	0.10	0.11	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	15.77	128.16	128.33	1275	0.10	0.11	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	16.02	128.16	128.33	1275	0.10	0.11	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	16.27	128.15	128.33	1276	0.09	0.10	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	16.52	128.14	128.33	1276	0.08	0.10	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	16.77	128.13	128.33	1276	0.08	0.09	0.1	0.0
100 yr - 24 hr	UNDERGROUND 2	BASE	17.02	128.13	128.33	1276	0.08	0.09	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	17.27	128.12	128.33	1276	0.08	0.09	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	17.52	128.12	128.33	1276	0.08	0.09	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	17.77	128.12	128.33	1276	0.08	0.09	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	18.02	128.12	128.33	1276	0.08	0.08	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	18.27	128.12	128.33	1276	0.08	0.08	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	18.52	128.12	128.33	1276	0.08	0.08	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	18.77	128.12	128.33	1276	0.08	0.08	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	19.02	128.12	128.33	1276	0.08	0.08	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	19.27	128.11	128.33	1277	0.06	0.08	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	19.52	128.10	128.33	1277	0.06	0.07	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	19.77	128.10	128.33	1277	0.06	0.07	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	20.02	128.09	128.33	1277	0.06	0.07	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	20.27	128.09	128.33	1277	0.06	0.07	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	20.52	128.09	128.33	1277	0.06	0.07	0.1	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	20.77	128.08	128.33	1277	0.06	0.06	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	21.02	128.08	128.33	1277	0.06	0.06	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	21.27	128.08	128.33	1277	0.04	0.06	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	21.52	128.06	128.33	1277	0.04	0.05	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	21.77	128.06	128.33	1277	0.04	0.05	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	22.02	128.05	128.33	1277	0.04	0.05	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	22.27	128.04	128.33	1276	0.02	0.04	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	22.52	128.03	128.33	1276	0.02	0.04	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	22.77	128.02	128.33	1276	0.02	0.03	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	23.02	128.01	128.33	1276	0.02	0.03	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	23.27	128.00	128.33	1275	0.02	0.03	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	23.52	128.00	128.33	1275	0.02	0.03	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	23.77	127.99	128.33	1275	0.02	0.03	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	24.02	127.99	128.33	1275	0.02	0.03	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	24.27	127.98	128.33	1274	0.00	0.02	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	24.52	127.96	128.33	1274	0.00	0.02	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	24.77	127.95	128.33	1273	0.00	0.02	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	25.02	127.94	128.33	1272	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	25.27	127.93	128.33	1271	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	25.52	127.92	128.33	1270	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	25.77	127.91	128.33	1269	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	26.02	127.91	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	26.27	127.90	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	26.52	127.89	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	26.77	127.88	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	27.02	127.87	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	27.27	127.87	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	27.52	127.86	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	27.77	127.85	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	28.02	127.84	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	28.27	127.84	128.33	1267	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	28.52	127.83	128.33	1266	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	28.77	127.82	128.33	1266	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	29.02	127.81	128.33	1265	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	29.27	127.80	128.33	1264	0.00	0.01	0.2	0.1

100 YR 24 HR TIME SERIES (FOR RECOVERY)

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100 yr - 24 hr	UNDERGROUND 2	BASE	92.52	126.04	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	92.77	126.03	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	93.02	126.03	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	93.27	126.02	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	93.52	126.02	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	93.77	126.02	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	94.02	126.01	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	94.27	126.01	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	94.52	126.00	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	94.77	126.00	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	95.02	126.00	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	95.27	125.99	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	95.52	125.99	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	95.77	125.99	128.33	1264	0.00	0.01	0.2	0.1
100 yr - 24 hr	UNDERGROUND 2	BASE	96.01	125.98	128.33	1264	0.00	0.01	0.2	0.1

100 YR 24 HR TIME SERIES (FOR RECOVERY)

Attachment E

FEMA and Soil Maps

National Flood Insurance Program at 1-800-638-6620.



MAP SCALE 1" = 500'



JOINS PANEL

50000 FT



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0311D

FIRM FLOOD INSURANCE RATE MAP
ALACHUA COUNTY,
FLORIDA
AND INCORPORATED AREAS

PANEL 311 OF 640

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY NUMBER PANEL SUFFIX
GAINESVILLE, CITY OF 12507 031 D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

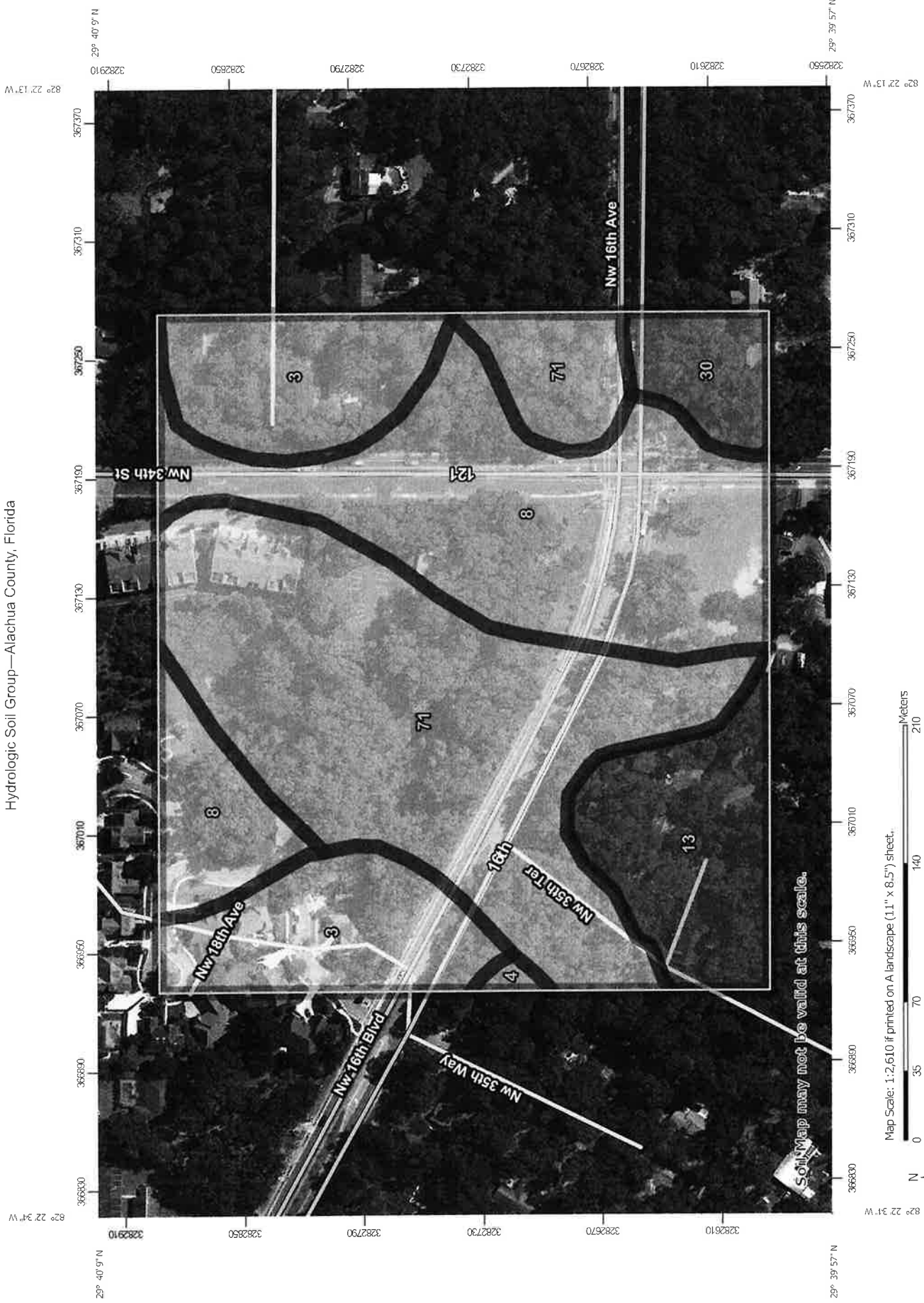


MAP NUMBER
12001C0311D
EFFECTIVE DATE
JUNE 16, 2006

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov





























Hydrologic Soil Group—Alachua County, Florida



Map Scale: 1:2,610 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

- Area of Interest (AOI)**
 Area of Interest (AOI) 
- Soils**
- Soil Rating Polygons**
-  A
 -  A/D
 -  B
 -  B/D
 -  C
 -  C/D
 -  D
 -  Not rated or not available
- Soil Rating Lines**
-  A
 -  A/D
 -  B
 -  B/D
 -  C
 -  C/D
 -  D
 -  Not rated or not available
- Soil Rating Points**
-  A
 -  A/D
 -  B
 -  B/D
- Water Features**
-  Streams and Canals
- Transportation**
-  Rails
 -  Interstate Highways
 -  US Routes
 -  Major Roads
 -  Local Roads
- Background**
-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alachua County, Florida
 Survey Area Data: Version 17, Sep 20, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 28, 2013—Nov 8, 2013

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Alachua County, Florida (FL001)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
3	Arredondo fine sand, 0 to 5 percent slopes	A	4.5	17.3%
4	Arredondo-Urban land complex, 0 to 5 percent slopes	A	0.1	0.4%
8	Millhopper sand, 0 to 5 percent slopes	A	7.8	29.7%
13	Pelham sand	B/D	2.7	10.5%
30	Kendrick sand, 2 to 5 percent slopes	B	1.0	4.0%
71	Millhopper sand, 5 to 8 percent slopes	A	10.0	38.2%
Totals for Area of Interest			26.1	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

**APPLICATION FOR CONCURRENCY CERTIFICATION & TMPA REVIEW
DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES**

LONG FORM
(352) 334-5022

EXHIBIT
tabbles
D-2
Pages 1-6

OFFICE USE ONLY

Petition No. _____ TMPA Zone [] A [] B [] C [] D [] E [] M

TYPE OF CERTIFICATION REQUESTED:

[] Concurrency Determination (non-binding)

[] Certificate of Preliminary Concurrency

[X] Certificate of Final Concurrency

[] Certificate of Conditional Concurrency Reservation

Owner Name(s) (please print)
Name(s): Zion Evangelical Lutheran Church
Mailing Address:
1700 NW 34th Street
Gainesville, FL 32605
E-Mail Address: cjborgert@apt-pharmatox.com
Phone: 352-376-9940 Fax:
(If additional owners, please include on separate sheet)

Agent(s) Name (please print)
Name: eda engineers-surveyors-planners, inc.
Mailing Address:
2404 NW 43rd Street
Gainesville, FL 32606
E-Mail Address: sreyes@edafl.com
Phone: 352-373-3541 Fax: 352-373-7249
(Attach notarized authorization for agent to act on owner's behalf.)

PROJECT INFORMATION

Project Name: Zion Lutheran Church	Phase:
Location of Project (attach an 8 1/2" x 11" map showing location) see attached	
1. Street address: 1700 NW 34th Street, Gainesville, FL 32605	
2. Legal description (may be attached): THAT PART OF E 650 FT OF S 526.17 FT OF NE1/4 LYING N OF 16TH BLVD LESS R/W 34TH ST OR 971/411	
3. Tax parcel number(s): 06416-030-000	4. Map number(s): 35 - 09 - 19
Existing Land Use Category: Single-Family Residential RSF-1 Existing Zoning: RSF-1	

Is there a proposal to change the zoning and/or land use associated with this project? [] Yes [X] No
If yes, indicate petition number(s) associated with change:

PHASING			
Is this project (phase) part of a larger project?	[] Yes	[X] No	
If yes, enumerate each phase, number of units or square footage in each phase and beginning/ completion date.			
Total Project: Residential units	SF	SFA	MF
Non-residential (square footage)			
Mixed-use (describe mix)			
(If this is a single phase project, name it Phase I – Total)			

RESIDENTIAL DATA					
Type	Phase	Number of units	Acres	Expected beginning date	Expected completion date
Single-family, detached					
Single-family, attached					
Multi-family					
Rooming houses or dormitories (beds)					
Other (specify)					

NON-RESIDENTIAL DATA					
Type(s) specify	Phase	Square footage	Acres	Expected beginning date	Expected completion date
Sanctuary	1	5,228	4.99	08/2018	06/2019

STOP HERE AND SIGN CERTIFICATION ON PAGE 3 IF YOU ARE REQUESTING ONLY A CONCURRENCY DETERMINATION

Required Information for Certificates of Preliminary, Final, and Conditional Concurrency Reservation & TMPA Review (Attach sheets to application.)

1. Attach a sheet with the average daily, and peak hour, peak direction trip generation for the project based on the latest edition of the ITE Trip Generation Manual. (**NOTE: The trip generation information MUST be attached to this application and shown on the development plan.**) In cases where the City and the applicant show differences in projected trips, the applicant’s calculations must be signed and sealed by the professional engineer registered in the State of Florida.

- 2. Is the proposed project within the Transportation Mobility Program Area (TMPA) (see attached map)? If yes, please be aware that special criteria apply in this area. Yes No
Zone A Zone B Zone C Zone D Zone E Zone M
- 3. Indicate whether the proposed project will be eliminating any existing recreation facilities. If yes, detail the number and type being eliminated. Yes No
- 4. Submit a complete stormwater management plan for water quantity and water quality review by the City's Public Works Department. (Do not submit with this application, submit with the development plan.)
- 5. Does this application involve demolition or re-use of any structure(s)? Yes No

If yes, what is the size of the structure(s) to be demolished or re-used? _____ (unit(s) or square footage)

What is the current use of the structure to be demolished or re-used?

Are you claiming trip credits for the demolition or re-use of a structure(s) at the site?
 Yes No

If yes, provide estimates of credits for each previous use at the site. (Attach sheet with calculations.)

Certification

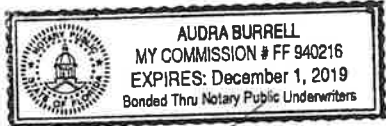
The undersigned has read the above application and is familiar with the information submitted herewith. It is agreed and understood that the undersigned will be held responsible for its accuracy. The undersigned hereby attests to the fact that the parcel number(s) and legal description(s) shown in questions 2 and 3 is/are the true and proper identification of the area for which the concurrency application is being submitted. Signatures of all owners or their agent are required on this form.

NOTE: The undersigned agrees that signing this application grants Planning staff the right to amend, for the sake of consistency, the square footage or number of units shown herein based on changes made to the development plan, subdivision, special use permit, or planned development during the review process.

Sue Drell
Owner/Agent Signature

3/16/18
Date

STATE OF FLORIDA
COUNTY OF Alachua
Sworn to and subscribed before me this 16 day of March 2018.



Audra Burrell
Signature - Notary Public







Personally Known OR Produced Identification _____

TRANSPORTATION MOBILITY ELEMENT

Transportation Mobility Program Area

Legend

Transportation Mobility Program Area Sub-Zones

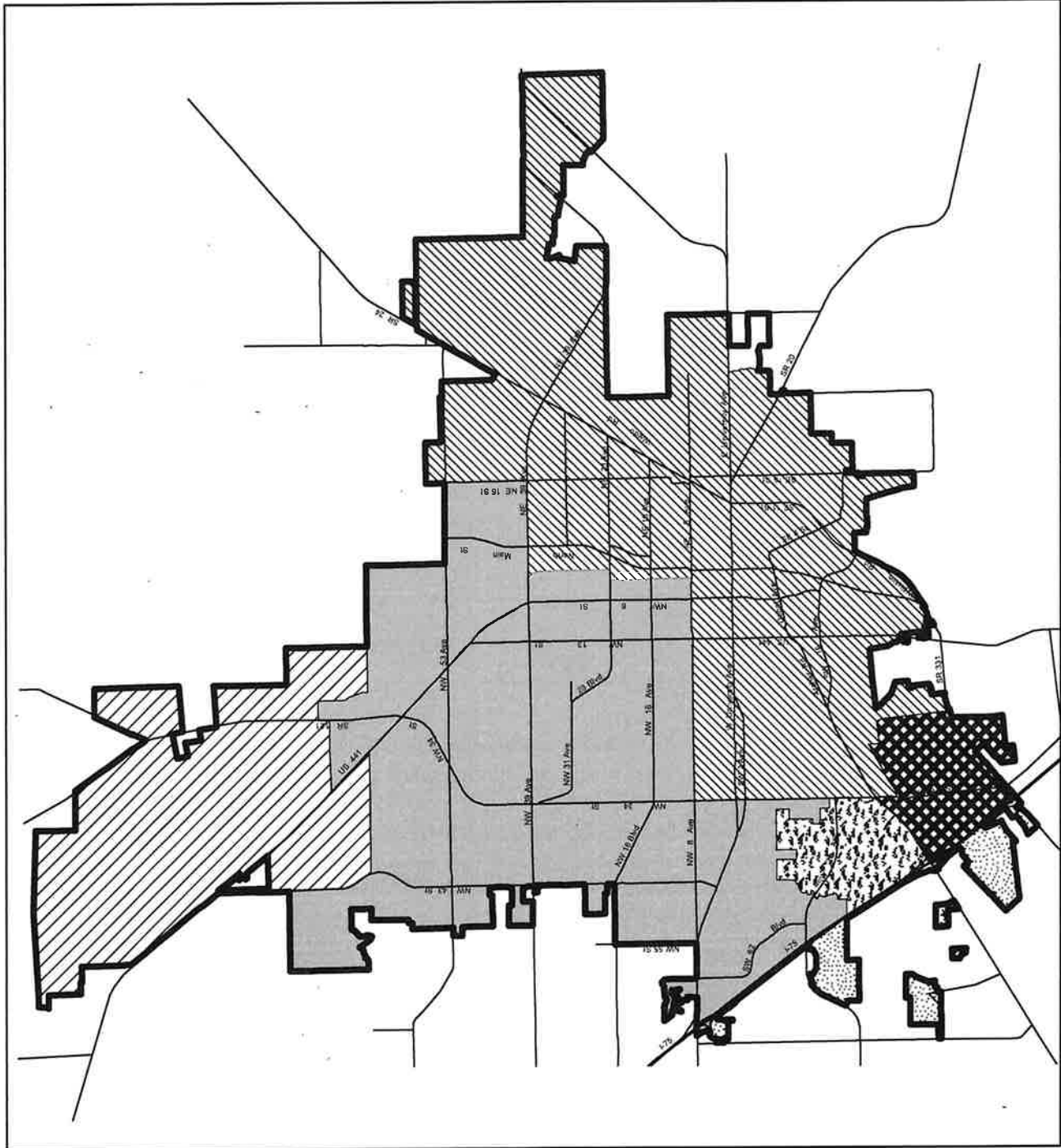
-  Zone A
-  Zone B
-  Zone C
-  Zone D
-  Zone E
-  Zone M

Gainesville City Limits



**City of Gainesville
Gainesville, Florida**

Prepared by Planning and
Development Services
November 2012



STAFF USE ONLY

Estimated demand:

Potable water (_____ units x 2.25) x 200 = _____ peak gallons per day (resid. only)

Water Supply _____ (see GRU)

Wastewater (_____ units x 2.25) x 113 = _____ average gallons per day (resid. only)

Solid Waste (_____ units x 2.25) x 3.6 = _____ pounds per day (resid. only)

Trip Generation _____ ADT; _____ added p.m. peak hour, peak direction trips

Stormwater (See the Public Works Comment Sheet.) Does the project meet water quality and water quantity LOS Standards, according to the Public Works Department?

Recreation _____ Does the project degrade the City's adopted LOS Standards for recreation?

Mass Transit _____ Does the project impact any of the City's adopted LOS Standards for mass transit?

Estimated credits for demolition/redevelopment/re-use:

Potable water (_____ units x 2.25) x 200 = _____ peak gallons per day (resid. only)

Water Supply _____ (see GRU)

Wastewater (_____ units x 2.25) x 113 = _____ average gallons per day (resid. only)

Solid Waste (_____ units x 2.25) x 3.6 = _____ pounds per day (resid. only)

Trip Generation _____ ADT; _____ peak p.m. hour, peak direction trips

Note: 2.25 = 2010 Census persons/household in Gainesville, FL

STAFF USE ONLY

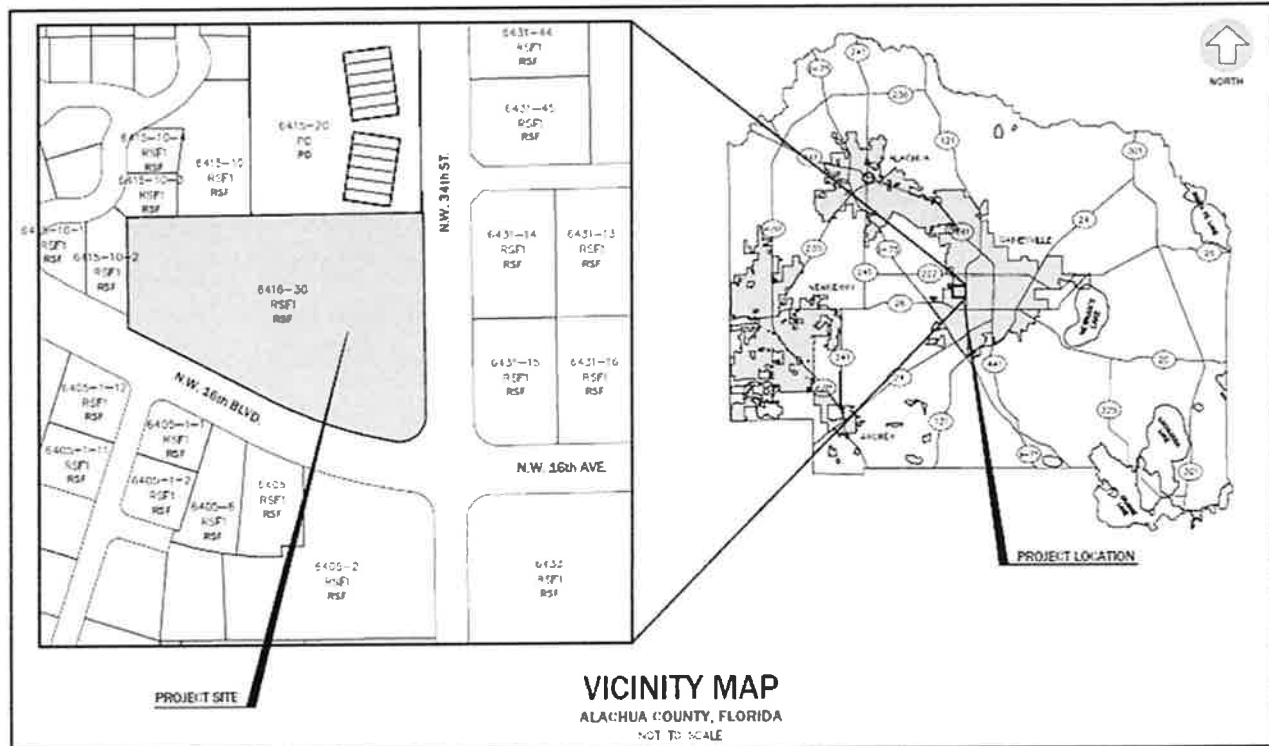
This development meets all relevant Planning and Development Services Department LOS standards for concurrency and TMPA Review. Please see the Public Works comment sheet for information about Stormwater Management concurrency.

Signed _____

Date _____

Concurrency long form--nf
Revised: 10/24/13

LOCATION MAP



LEGEND:

EXISTING
 PD - PLANNED USE DISTRICT
 RSF1 - SINGLE-FAMILY RESIDENTIAL

OUTLINE LAND USE
 PD - PLANNED USE DISTRICT
 RSF - SINGLE-FAMILY RESIDENTIAL

LEGAL DESCRIPTION

(OFFICIAL RECORDS BOOK 971, PAGE 411)

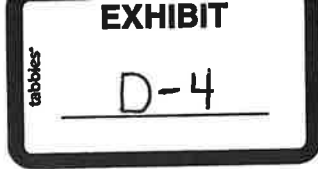
COMMENCE AT THE SE CORNER OF THE NE 1/4 OF SECTION 35-T9S-R19E AND RUN N 0°34'22" W ALONG THE EAST LINE OF SAID SECTION AND THE CENTERLINE OF NW 34TH STREET 115.66 FEET, THENCE RUN S 89°25'38" WEST 50 FEET TO THE WEST R/W OF NW 34TH STREET AND THE POINT OF BEGINNING, SAID POINT BEING THE P.C. OF A CURVE CONCAVE TO THE NORTHWEST AND HAVING A RADIUS OF 50 FEET, THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID R/W CURVE 87.9 FEET TO THE P.T. OF SAID CURVE, BEING ON THE NORTH R/W OF NW 16TH AVENUE, AND BEING THE P.C. OF A CURVE CONCAVE TO THE NORTHEAST, AND HAVING A RADIUS OF 904.93 FEET, THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID R/W 268.70 FEET TO THE P.T. OF SAID CURVE, THENCE RUN N 62°49'37" W ALONG SAID R/W 325.21 FEET, THENCE RUN N 0°34'22" WEST 220 FEET, THENCE RUN N 89°25'38" EAST 600 FEET TO THE WEST R/W OF NW 34TH STREET, THENCE RUN S 0°34'22" EAST ALONG SAID R/W 410.51 FEET TO THE POINT OF BEGINNING. BEING AND LYING IN THE NE 1/4 OF SECTION 35-T9S-R19E., GAINESVILLE, ALACHUA COUNTY, FLORIDA.

TRIP GENERATION

ITE LAND USE 560:
PROPOSED CHURCH:
5,228 G.S.F.
1700 NW 34TH STREET

CHURCH (PER 1000 SF)				TRIP DISTRIBUTION		PROJECT TRIPS	
PERIOD	RATE	SF	TRIPS	ENTER	EXIT	IN	OUT
AM	0.56	5.23	3	62%	38%	2	1
PM	0.55	5.23	3	48%	52%	1	2
WEEKDAY	9.11	5.23	48	50%	50%	24	24
SUNDAY	36.63	5.23	192	50%	50%	96	96

SOURCE: ITE TRIP GENERATION, 9TH EDITION, PAGES 1090–1092



August 30, 2017 – revised March 13, 2018

City of Gainesville
302 NE 6th Avenue
Gainesville, FL 32601

**Re: Zion Evangelical Lutheran Church
Intermediate Development Plan Review and Special Use Permit Application**

Attached is a Development Plan and Special Use Permit application package submittal for a proposed new sanctuary building and associated site improvements, including parking lot additions and a new stormwater area for Zion Evangelical Lutheran Church. This is a proposed 5,069 SF sanctuary building with associated infrastructure improvements on the property. The project is located at 1700 NW 34th Street in Gainesville on Tax Parcel No. 06416-030-000. The project site is located on approximately 5 (+/-) acres and contains an existing church building and associated parking. This site is surrounded by residential uses.

A Site Plan is required to permit the proposed site improvements, including a new building, parking lot additions, and a new stormwater area. In addition, a Special Use Permit (SUP) application is required because the City of Gainesville Land Development Code Sec. 30-91 requires that places of religious assembly located in the RSF-1, RSF-2 RSF-3 and RSF-4 zoning districts receive Special Use Permit approval from the City Plan Board.

If you have any questions, please feel free to contact our office at any time.

Sincerely,

A handwritten signature in black ink that reads "Sergio Reyes". The signature is written in a cursive style with a horizontal line underneath.

Sergio Reyes, P.E.
President

PLAN REVIEW APPLICATION

OVERVIEW:

Project Name: Zion Evengelical Lutheran Church	Tax Parcel Number: 06416-030-000
Property Address: 1700 NW 34th Street, Gainesville, FL 32605-3727	
First Step Meeting Date: 04/10/17	GRU Project Meeting Date: 03/29/17

Proposed Uses/Type of Development (Check all that apply)

<input type="checkbox"/> Residential	Density	<input checked="" type="checkbox"/> Non-residential	
<input type="checkbox"/> Multi-family	Units/acre:	<input type="checkbox"/> Commercial	<input type="checkbox"/> Office
Total Units:	Total bedrooms:	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other Church
Gross floor area: 4,521 SF			

PROJECT MANAGEMENT:

Owner(s) of Record (please print)		
Name: Zion Evangelical Lutheran Church, Inc. of Gainesville, Florida		
Mailing Address: 1700 NW 34th Street, Gainesville, FL 32605		
Phone: 352-376-9940	Fax:	E-Mail: cjborgert@apt-pharmatox.com

Applicant/Engineer of Record/Project Coordinator (please print)		
Name: eda engineers-surveyors-planners, inc.		
Mailing Address: 2404 NW 43rd Street, Gainesville, FL 32606		
Phone: 352-373-3541	Fax: 352-373-7249	E-Mail: sreves@edafl.com

Project Coordinator Name: Stephanie Sutton - ssutton@edafl.com and permitting@edafl.com

FEES:

Level of Review (check one)		Special Use Permit <input checked="" type="checkbox"/>	Enterprize Zone <input type="checkbox"/>
MINOR	INTERMEDIATE	MAJOR	CONCEPT
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		MASTER	<input type="checkbox"/>

Fees are determined at First Step Meeting or GRU Project Meeting and are based on level of review and EZ Zone. More information about EZ Zones can be found at

<http://cityofgainesville.org/Portals/0/plan/2015%20Web%20Docs/landdevfees151001.pdf>

Plan Review Fee: \$ 5,137.75 (= Intermediate Review 4,051.75 and SUP 1,086.00)

GRU Fee: \$ GRU Business Acct No.: 2000-2238-3426

Plan review fee will be paid by: Zion Evangelical Lutheran Church, Inc.

Name: Christopher J. Borgert E-Mail: cjborgert@apt-pharmatox.com Phone: (352) 335-8334

Applicant Signature: _____

Date: _____

THIS SECTION FOR OFFICE USE ONLY

Petition Number: _____

SUFFICIENCY CHECKLIST BELOW. PLEASE FILL OUT

Reviewer Comment	Met Y/N/NA	Sheet #
PLANNING: Wellfield exemption and protection permit provided	N/A	
PLANNING: Property owner authorization provided	Y	
PLANNING: Neighborhood workshop information provided	N/A	
PLANNING: First Step Meeting held	Y	4/10/17
PLANNING: Stormwater Management Plan provided	Y	C3.00
PLANNING: Signed Concurrency Exemption or Long Form provided	Y	
PLANNING: Fire Flow Calculations provided	Y	Attached
PLANNING: Environmental mitigation plan for impacted environmental areas provided	Y	C0.30
PLANNING: Photometric plan/ lighting plan provided	Y	See E series
PLANNING: Landscape plan provided	Y	See Landscape Plans
PLANNING: Construction staging plan provided	Y	C0.20
PLANNING: Boundary survey with a legal description provided	Y	
PLANNING: Utility Plan provided	Y	C4.00
PLANNING: Building elevations with basic floorplans provided	Y	
PLANNING: Trip generation study provided	Y	
PLANNING: Traffic study provided	N/A	
PLANNING: [Insert Comments]	N/A	
GRU GENERAL - Is this plan review 2 or greater? If yes, were all previous comments addressed?	N	
GRU GENERAL - Did you coordinate with Electric Engineer or tech and provide a layout on plan? If yes, provide name	Y	Sent to Tracy Wohl
Include contact information, Owners name, project name, address and phase(s)	Y	C0.00
GRU GENERAL - Clear and legible plans on 24" x 36" sheets	Y	All
GRU GENERAL - GRU Energy Delivery Electric System Design reflecting proposed W/WW utility design. Note on cover page/plans as "Electric Design Provided by GRU Energy Delivery".	Y	C0.00
GRU GENERAL - ALL GRU standard utility notes must be shown on utility plans (see Section 1. III.C.21 of the GRU Water/Wastewater Design Standards)	Y	C4.00
GRU GENERAL - Project location map with North Arrow	Y	C0.00
GRU GENERAL - On utility master site plan show and label all existing & proposed utilities (note 'end of GRU maintenance')	Y	C4.00
GRU GENERAL - Existing and proposed easements	Y	C4.00
GRU GENERAL - Right-of-way lines	Y	C4.00
GRU GENERAL - Parcels and/or lot numbers of site location and adjacent property	Y	C0.00
GRU GENERAL - Street names	Y	All
GRU GENERAL - Proposed structures (i.e. buildings, walls fences, signs)	Y	All
GRU GENERAL - Proposed subdivision plat, if project is a subdivision	N/A	
GRU GENERAL - Signed & sealed boundary survey, including legal description and parcel number(s)	Y	

GRU GENERAL - Proposed off-site utility extensions to the point of availability, showing the affected offsite parcels/properties/proposed easements	Y	C4.00
GRU GENERAL - Landscape Plan reflecting all proposed Utility locations	Y	See Landscape Plan
GRU GENERAL - Building minimum finished floor elevations	Y	C2.00
GRU GENERAL -Building footprints (for commercial projects), labeled building setback lines and build-to lines, decorative masonry walls, fences, signs and landscaped buffer areas	Y	C2.00
GRU GENERAL Utility Space Allocation cross sections for each different road section, alleys and PUEs including street and locations if roads or alleys are included in project	N	
GRU GENERAL Identify lot numbers and street names in some fashion (names may change prior to permit issuance)	Y	All
GRU W-WW - Application by engineer that W/WW/RCW system design is in accordance with GRU Design Standards. (note: Final plans shows valid P.E. license and reads Professional Engineer)	Y	C0.00
GRU W-WW - Potable and wastewater demand calculations	Y	Attached
GRU W-WW - AutoCAD Drawing file of Water and Wastewater Utilities with pipe sizes, fittings, and valves clearly labeled (this file will be used by GRU Strategic Planning to model the proposed water system)	Y	
GRU W-WW - In all cases, signed and sealed NFPA 1 and ISO fire flow calculations See Appendix E of Water/Wastewater Standards for a copy of ISO 2008	Y	Attached
GRU W-WW - Copy of Development Master Plan including Phasing Schedule, unless plans include all potential future development	N/A	
GRU W-WW - Show temporary construction water source with reduced pressure back flow preventer (RPBFP)	Y	C4.00
GRU W-WW - Indicate and label source of irrigation water if there is landscaping	Y	C4.00
GRU W-WW - If water/wastewater infrastructure is illegible on Master Plan, provide on multiple sheets	Y	C4.00
GRU W-WW - If WW service is provided, then plan and profile views are required for gravity sewer and force mains. All WW system plan and profile sheets at 1" = 30' max horizontal scale and 1" = 5' max vertical scale. (Exceptions accepted at GRU discretion	N	
"GRU W-WW - All materials clearly labeled (pipe including diameter, material and slope, valves, fire hydrants, fire sprinkler lines, water meters, RPBFP, fittings, manholes including elevations, services, clean outs with top and invert elevations, sizes, types, slopes and associated appurtenances"	Y	C4.00

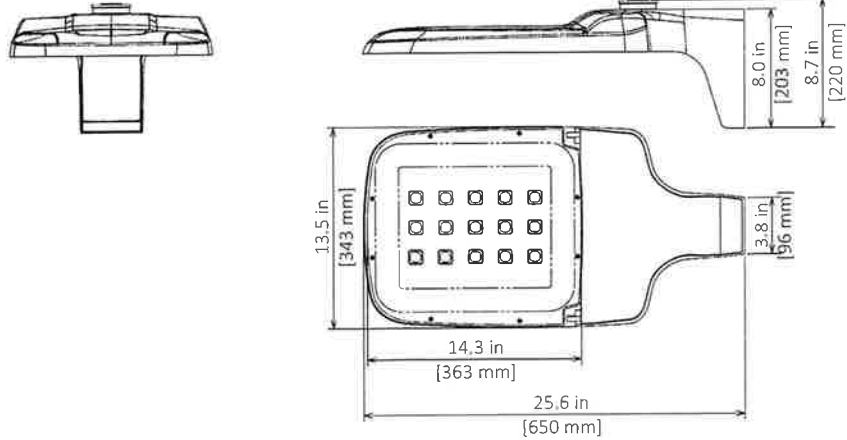
"GRU W-WW - Show and label connections to existing utilities. Label existing facilities which cross or are adjacent to the property as well as elevations (manhole tops and inverts), pipe diameter and material of all existing W/WW, Electric, Gas, GruCom and Stormwater facilities which cross and/or are adjacent to the property"	Y	C4.00
GRU W-WW - Existing and proposed site contours must be shown on utility plan	Y	C4.00
"GRU W-WW - Master paving and drainage plan reflecting all stormwater facilities, retention or detention ponds with elevations (clearly indicate design high water level and 100 year flood elevations)"	Y	C2.00
"GRU W-WW Standard WW Pump Station design drawings for GRU O&M stations (Private O&M WW pump stations shall include signed and sealed design calculations, i.e. system head curve, pump curve/specs, If lift station is included in project)"	N/A	
GRU ELECTRIC: All Proposed electric infrastructure shown to scale per EDSG	Y	C4.00
GRU ELECTRIC Proposed meter/service delivery point shown	Y	C4.00
"GRU ELECTRIC If using GRU Rental Lights, GRU will provide conduit layout. Owner to provide photometric plan. (Note: provide copy of waiver application that is submitted to the City)"	N/A	
"GRU ELECTRIC - All electric equipment, cable/conduits must be contained within a PUE û coordinate with GRU Real Estate "	Y	C4.00
GRU ELECTRIC - Provide proper clearances around all electric structures and equipment as per EDSG	Y	C4.00
GRU ELECTRIC - Provide required voltage (single phase or three phase)and any load information that you have	Y	Attached
GRU GAS - Gas shown on plans	N/A	
GRU GAS - Gas usage statement: include notes on items contractor will provide to mitigate aid in construction costs and whether there will be natural gas generator on-site	N/A	
GRU GAS - Gas meter location	N/A	
GRU GAS - Acceptable service delivery point	N/A	
"GRU GAS - Include gas department notification statements, one week for demolition services, 72 hours prior to casing installations, one week for gas main installations and 72 hours for meter se"	N/A	
GRU GRUCom - Are you considering GRUCom services	N/A	

ARIETA™13 Architectural LED Area Luminaire

AR13 M2 Series Specification Data Sheet

Luminaire Data

Weight 15.4 lbs [7 kg]
EPA 0.47 ft²



Ordering Information

Sample Catalog No. AR13 6M2 MV NW 5 BK 700 MSL3

Product	LED Code	Voltage	Nominal Color Temperature	Distribution	Finish ¹	Drive Current Code ²	Options
AR13	4M2	MV 120-277V	WW 3000K	2 Type 2	BK Black	350	HSS ³ House Side Shield (Factory Installed)
	6M2	HV 347-480V	NW 4000K	3 Type 3	DB Dark Bronze	530	FDC ⁴ Fixed Drive Current
	10M2		CW 5000K	4 Type 4	WH White	700	FFA ⁵ Full Field Adjustability
	15M2			5 Type 5	GY Gray		PCR ⁶ NEMA Photocontrol Receptacle
	18M2				NA Natural Aluminum		PCR7 ⁶ ANSI 7-wire Photocontrol Receptacle
	20M2						PCR7-CR ⁷ Control Ready 7-wire Photocontrol Receptacle
							MSL7 ⁸ Motion Sensor with L7 Lens
							MSL3 ⁸ Motion Sensor with L3 Lens
							PND1 ⁹ Part-Night Dimming
							PND2 ⁹ Part-Night Dimming
							PND3 ⁹ Part-Night Dimming
							ORR Optics Rotated Right
							ORL Optics Rotated Left
							WL Utility Wattage Label

Notes:

- 1 Black, Dark Bronze, White, Gray, or Natural Aluminum standard. Consult factory for other finishes.
- 2 Specified drive current code is the factory set maximum drive current. Field adjustable current selector enables standard dimming to lower wattage drive currents only. Consult factory if wattage limits require a special drive current.
- 3 Flush mounted shield factory installed, also available for field installation. House Side Shield cuts light off at 1/2 mounting height behind luminaire.
- 4 Non-field adjustable drive current. Specify 350mA, 530mA or 700mA setting.
- 5 The FFA option enables full field adjustability from the specified drive current code to all drive currents available. This option is not DLC qualified.
- 6 Field adjustable current selector included to enable standard dimming to lower wattage drive currents only. Field changeable connectors included to enable connection to PCR7 (wireless node dimming is disabled by default).
- 7 Control-ready wired at factory for wireless node dimming. Supplied at maximum drive current. If lower drive current is required, consult factory.
- 8 Motion Sensor available with MV. See L7 or L3 Lens coverage details on page 5. Consult factory for MS specified with ANSI 7-wire Photocontrol Receptacle. PCR option is required for On/Off control using light detection.
- 9 For PND profile options see page 6. Only available with MV (120-277V).
- 10 Specify Color (GY, DB, BK, WH, NA)
- 11 Specify MV (120-277V) or HV (347V or 480V)

Accessories*

HSSAR13 ^{3,10}	House Side Shield
RPA ¹⁰	Round Pole Adapter
PTF1 ¹⁰	Square Pole Top Fitter Single
PTF2 ¹⁰	Square Pole Top Fitter Twin at 180°
PTF4 ¹⁰	Square Pole Top Fitter Quad
WM ¹⁰	Wall Mount
BSK	Bird Deterrent Spider Kit
PC ¹¹	Twist Lock Photocontrol
LLPC ¹¹	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap
FSIR100	Motion Sensor Configuration Tool

*Accessories are ordered separately and not to be included in the catalog number



Luminaire Specifications

Housing

Die cast aluminum housing with universal mounting design allows for attachment to existing pole without redrilling for retrofit applications. Aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Electrical components are accessed without tools and are mounted on removable power door.

Light Emitting Diodes

Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability

LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified drive current code will be the factory set maximum drive current and field adjustments can only be made to available lower wattage drive currents. Select the FFA option if full field adjustability to all available drive currents (700mA max) is desired. The FFA option is not DLC qualified.

Quality Control

Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems

Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4 or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield (HSS) cuts light off at 1/2 mounting height behind luminaire. Optics may be rotated right or left with options ORR/ORL, respectively.

Electrical

Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls

3-Wire photocontrol receptacle (PCR) is available. ANSI C136.41 7-wire (PCR7) photocontrol receptacles are available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish

Housing receives a fade and abrasion resistant polyester powder coat finish with 3.0 mil nominal thickness. Finish tested to withstand 5000 hours in salt spray exposure per ASTM B117. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C.

Photometry

Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty

10-year limited warranty is standard on luminaire and components. 5-year limited warranty on luminaires and components with a motion sensor.

Standards

Luminaire complies with:
ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77
Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598



ARIETA™13 Architectural LED Area Luminaire

AR13 M2 Series Specification Data Sheet

Performance Data 3000K (WW)

All data nominal. IES files are available at leotek.com.

LED Code	Current Code	System Wattage (W)	Type 2, 3, 4		Type 5	
			Delivered Lumens (Lm) ¹	Efficacy (Lm/W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)
4M2	350	20	2000	100	1930	96
	530	28	2720	97	2630	94
	700	36	3410	94	3300	91
6M2	350	29	2930	101	2750	95
	530	41	4110	99	3860	93
	700	54	5040	94	4950	92
10M2	350	41	4600	112	4500	109
	530	63	6700	106	6600	104
	700	87	8500	97	8400	96
15M2	350	63	7400	117	7300	116
	530	90	9600	107	9500	106
	700	124	12900	104	12700	102
18M2	350	81	9000	111	9100	112
	530	122	12800	105	13000	107
	700	160	16400	103	16700	104
20M2	350	84	10700	127	10800	129
	530	132	15300	116	15500	117
	700	172	18200	106	18500	108

Notes:

1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

Performance Data 4000K (NW) & 5000K (CW)

All data nominal. IES files are available at leotek.com.

LED Code	Current Code	System Wattage (W)	Type 2, 3, 4		Type 5	
			Delivered Lumens (Lm) ¹	Efficacy (Lm/W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)
4M2	350	20	2330	116	2290	114
	530	28	3170	113	3110	111
	700	36	3990	111	3920	109
6M2	350	29	3490	120	3480	120
	530	41	4810	116	4850	117
	700	54	5980	111	5880	109
10M2	350	41	5400	132	5300	129
	530	63	7800	124	7700	122
	700	87	10000	115	9800	113
15M2	350	63	8400	133	8300	132
	530	90	11500	128	11300	126
	700	124	15000	121	14700	119
18M2	350	81	9600	119	9700	120
	530	122	13700	112	13900	114
	700	160	17500	109	17800	111
20M2	350	84	10600	126	10800	129
	530	132	15200	115	15500	117
	700	172	19500	114	19800	115

Notes:

1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.





BUG Ratings: 3000K (WW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B2 U0 G1	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
15M2	350	B1 U0 G1	B1 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B3 U0 G3	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G2	B4 U0 G2

BUG Ratings: 4000K (NW) & 5000K (CW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
15M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G2*	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G3	B4 U0 G2

* These BUG ratings are slightly different for 5000K (CW). Refer to IES files for actual CW rating.

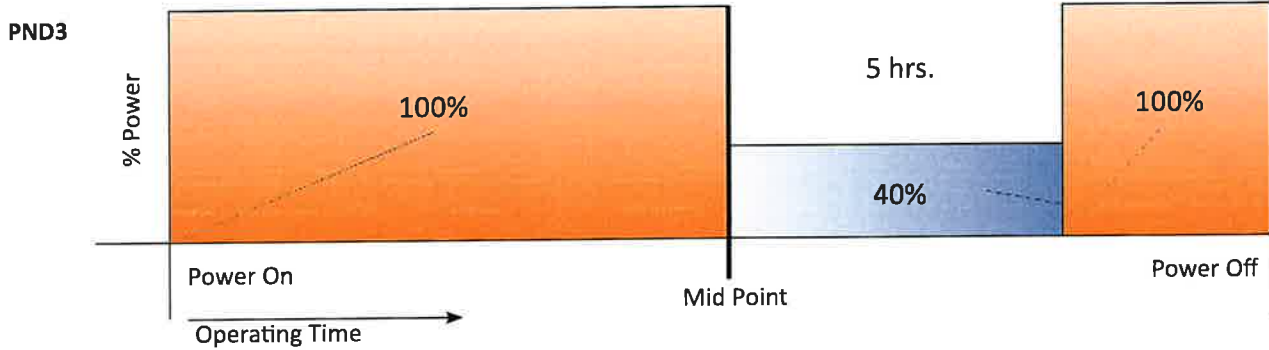
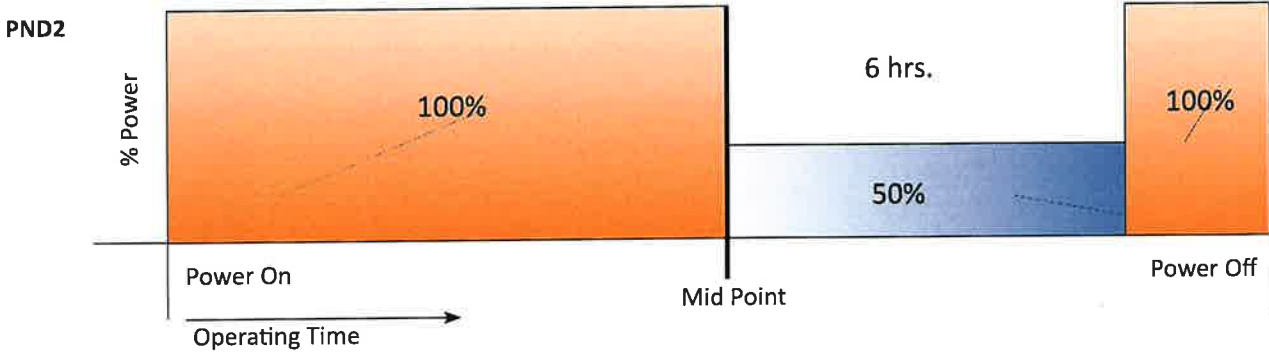
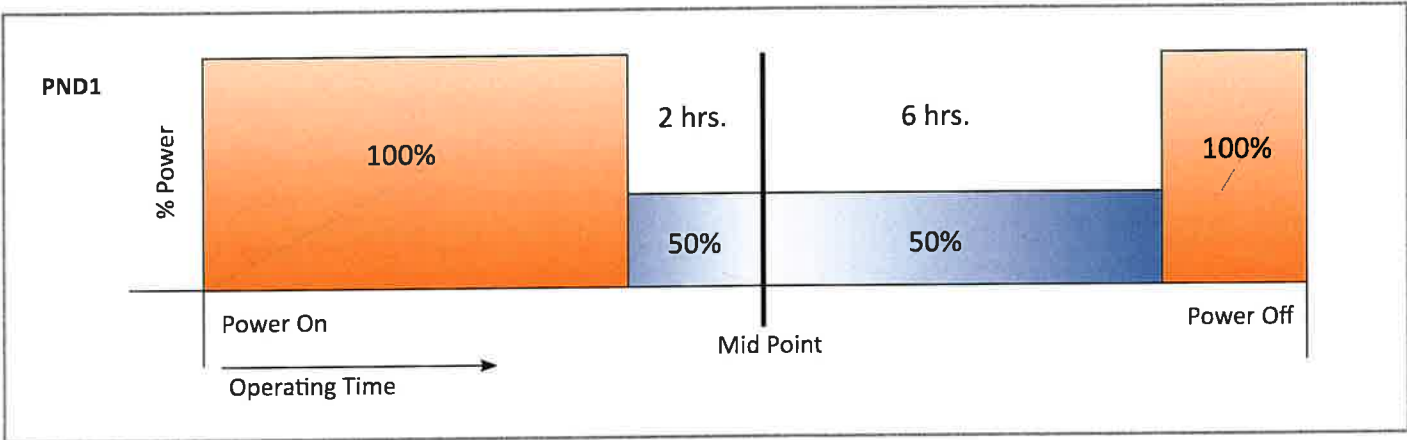
Part-Night Dimming Specifications

Description

Arieta's Part-Night Dimming (PND) option enables significant energy savings by automatically dimming the luminaire during early morning hours when infrequent use is expected. Factory programmed dimming profiles automatically take into account seasonal changes based on geographical location by continuously monitoring the nighttime midpoint. This option is fully compatible with photocells and time clock devices, but is not field adjustable.

Operation

Based on the PND profile that is selected, the luminaire dims to the corresponding % power for the corresponding length of time (based on the nighttime mid-point) as shown below. Mid-point is continuously recalculated in the luminaire by monitoring the average length of time between when the light turns on (power on) and turns off (power off) over the previous two days. In effect, this functionality will take two days to initialize after installation before any dimming will occur. Power interruptions are ignored and do not affect the determination of mid-point. A motion sensor (MSL3 or MSL7) can be used with PND to temporarily override the dimming profile when motion is detected. Three factory programmed PND profiles are available for selection:





735 ARLINGTON AVE N, STE 308
ST PETERSBURG, FL 33701
PH. 352-238-6366
www.hdceng.com

IES ROAD REPORT
PHOTOMETRIC FILENAME : ARXX-15M2-MV-NW-3-XX-700 S.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 1266196
[TESTLAB] UL Verification Services Inc.
[MANUFAC] Leotek Electronics USA LLC., 1955 Lundy Ave., San Jose, CA 95131
[LUMCAT] ARXX-15M2-MV-NW-3-XX-700 S
[LUMINAIRE] Leotek Electronics - Pole arm mount roadway luminaire. Product ID: ARXX-15M2-MV-NW-3-XX-700 S
[MORE] This IES file was scaled from AR13-6M2-MV-NW-3-XX-700.
[DATE] This file created: 8-9-2016
[ISSUEDATE] 8-9-2016

CHARACTERISTICS

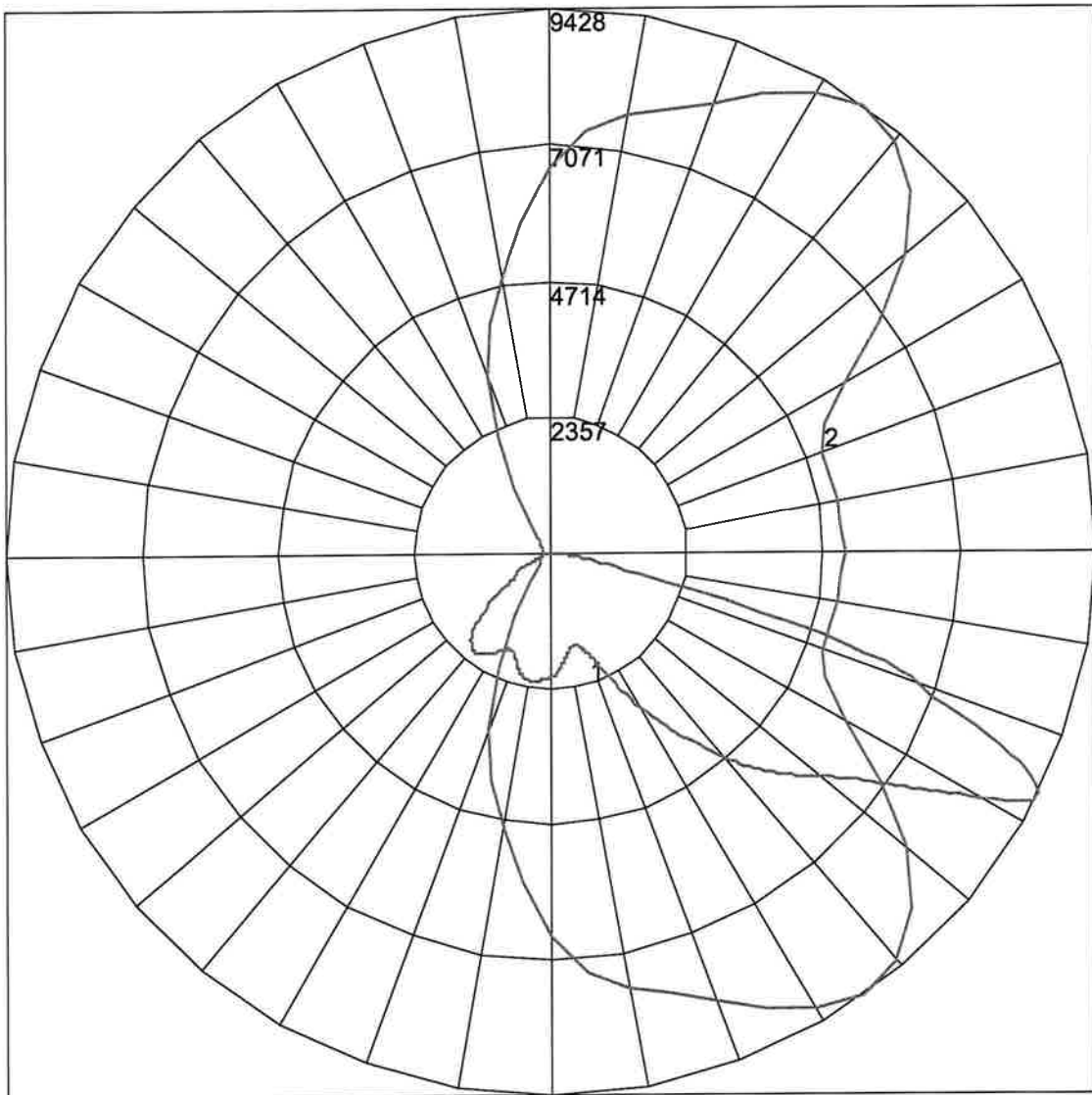
IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14955
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	124
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9427.693
Maximum Candela Angle	55H 63V
Maximum Candela (<90 Degrees Vertical)	9427.693
Maximum Candela Angle (<90 Degrees Vertical)	55H 63V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	541.277 (3.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : ARXX-15M2-MV-NW-3-XX-700 S.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

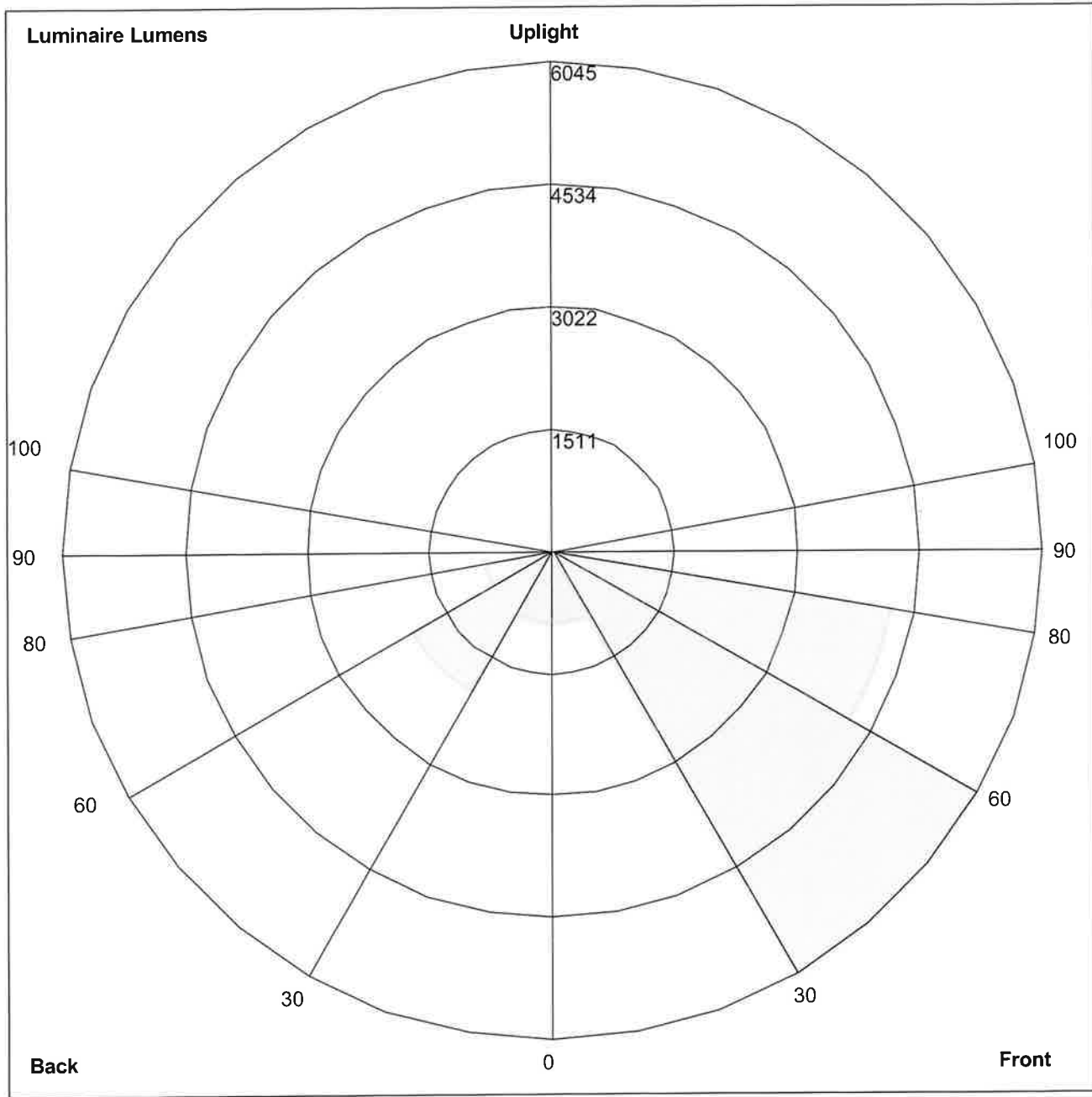
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	886.5	N.A.	5.9
FM - Front-Medium (30-60)	6044.7	N.A.	40.4
FH - Front-High (60-80)	4232.4	N.A.	28.3
FVH - Front-Very High (80-90)	75.5	N.A.	0.5
BL - Back-Low (0-30)	883.1	N.A.	5.9
BM - Back-Medium (30-60)	1988.4	N.A.	13.3
BH - Back-High (60-80)	834.8	N.A.	5.6
BVH - Back-Very High (80-90)	9.9	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	14955.3	N.A.	100.0
BUG Rating	B2-U0-G2		

POLAR GRAPH



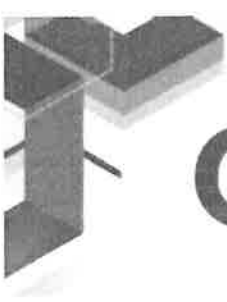
Maximum Candela = 9427.693 Located At Horizontal Angle = 55, Vertical Angle = 63
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (63) (Through Max. Cd.)

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=886.5, Medium=6044.7, High=4232.4, Very High=75.5
Back: Low=883.1, Medium=1988.4, High=834.8, Very High=9.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2



engineers • surveyors • planners, inc.

EXHIBIT
tabbles
D-7
Pages 1-14

Memorandum

TO: Krystal Williams/Ken Blake **DATE:** 03/29/17
FROM: Rosa Trautz
SUBJECT: Neighborhood Meeting – Zion Lutheran Church

PUBLIC NOTICE

A neighborhood workshop will be held to discuss a proposed Special Use Permit and Site Plan for a new church building and associated infrastructure on tax parcel number 06416-030-000 located at 1700 NW 34th Street in Gainesville. This is not a public hearing. The purpose of this meeting is to inform neighboring property owners of the proposed development and to seek their comments. The meeting will be held on April 17, 2017 at 6:00 p.m. at Zion Lutheran Church located at 1700 NW 34th Street, Gainesville, FL 32605.



Contact: Sergio Reyes, PE
eda engineers – surveyors – planners, inc.
(352) 373-3541

TODAY IN HISTORY

In 1789, the U.S. House of Representatives held its first full meeting in New York.

In 1924, Adolf Hitler was sentenced to five years in prison for his role in the Beer Hall Putsch in Munich. (Hitler was released in Dec. 1924; during his time behind bars, he wrote his autobiographical screed, "Mein Kampf.")

In 1993, Nazi Germany staged a daylong national boycott of Jewish-owned businesses.

In 1954, the United States Air Force Academy was established by President Dwight D. Eisenhower.

In 1972, the first Major League Baseball players' strike began; it lasted 12 days.

In 1984, recording star Marvin Gaye was shot to death by his father, Marvin Gay (cq), Sr. in Los Angeles, the day before his 45th birthday. (The elder Gay pleaded guilty to voluntary manslaughter, and received probation.)

In 1987, in his first speech on the AIDS epidemic, President Ronald Reagan told the Philadelphia College of Physicians, "We've declared AIDS public health enemy no. 1."

BIRTHDAYS

Actress **Al MacGrath** is 78. Supreme Court Justice **Samuel Alito** is 67. Movie director **Barry Sonnenfeld** is 64. Singer **Susan Boyle** is 56. Political commentator **Rachel Maddow** is 44. Actor **David Oyelowo** (oh-YELOW-oh) is 41. Actor **Asa Butterfield** is 20.

LOTTERY

Friday, March 31
Pick 2
 Early drawing: 7-6
 Night drawing: 8-4
Pick 3
 Early drawing: 9-0-0
 Night drawing: 8-6-0
Pick 4
 Early drawing: 5-2-6-5
 Night drawing: 5-7-6-9
Pick 5
 Early drawing: 7-0-8-9-5
 Night drawing: 5-2-4-9-8
Fantasy 5
 2-8-9-18-23
Lucky Money
 6-12-42-43 LB: 10
MEGA MILLIONS
 17-24-27-32-58 PB: 10


PREVIOUS RESULTS

Fantasy 5 - Thursday
 1-2-11-16-29
Match...Payoff...Winners
 5-of-5...\$200,623.32...1
 4-of-5...\$115.50.....279
 3-of-5...\$9.50.....9,365

PUBLIC NOTICE

A neighborhood meeting will be held to discuss a proposed Special Use Permit and Site Plan for a new church building and associated infrastructure on the parcel number 04430-030-002 located at 1700 NW 34th Street in Gainesville. This is not a public hearing. The purpose of this meeting is to inform neighboring property owners of the proposed developments and to take their comments. The meeting will be held on April 11, 2017 at 6:00 p.m. at First Lutheran Church located at 1700 NW 34th Street, Gainesville, FL 32605.

Contact: Sergio Reyes #1
 888-888-8888 - 354-2222 - 354-2222
 (352) 371-9343



SUPREME COURT NOMINEE

Dem opposition to Trump pick grows

Blumenthal, Schatz, McCaskill are the latest senators to disapprove of Neil Gorsuch

By Mary Clare Janovich and Erica Werner
 The Associated Press

WASHINGTON — Senate Democratic opposition to President Donald Trump's Supreme Court nominee swelled Friday as Democrats neared the numbers needed for a filibuster, setting up a showdown with Republicans who have the votes to confirm Neil Gorsuch.

Sens. Claire McCaskill of Missouri, Richard Blumenthal of Connecticut and Brian Schatz of Hawaii became the latest Democratic senators to announce their opposition to Gorsuch, a 49-year-old federal appeals court judge in Denver whose conservative rulings make him an intellectual heir to the late Antonin Scalia.

McCaskill's decision came a day after she said she was torn over the decision. She said she's opposing the federal appeals court judge because his opinions favor corporations over workers and he's shown "a stunning lack of humanity" in some of those decisions.

She also criticized Trump in her statement

announcing her opposition, saying "the president who promised working people he would lift them up has nominated a judge who can't even see them."

Senate Minority Leader Chuck Schumer of New York warned Republicans against changing Senate rules, which could prove momentous for the chamber and would allow all future Supreme Court nominees to get on the court regardless of opposition from the minority party. He says President Donald Trump should just pick a new nominee if Gorsuch is blocked.

Blumenthal, a Senate Judiciary Committee member who questioned Gorsuch on judicial independence and other topics in last week's hearings, complained that the judge didn't give straightforward responses.

"We must assume that Judge Gorsuch has passed the Trump litmus test — a pro-life, pro-gun, conservative judge," Blumenthal said in a statement.

There are now at least 36 Senate Democrats who oppose Gorsuch and have pledged to block him with a filibuster, just five shy of the number that would be required to mount a successful filibuster. All of the Senate's 52 Republicans are expected to support him. The vote is expected next week.

Republicans are furious at the Democrats' plans, arguing that filibusters of



Sen. Claire McCaskill, D-Mo., speaks Jan. 24, 2016, on Capitol Hill in Washington. McCaskill is warning her party it could be politically dangerous to block President Donald Trump's Supreme Court nominee. (ASSOCIATED PRESS FILE PHOTO)

Supreme Court justices have been exceedingly rare, and accusing Democrats of responding to political pressures from a liberal base that still hasn't accepted Trump's election win. Senate Majority Leader Mitch McConnell, R-Ky., is expected to respond to a Democratic filibuster by unilaterally changing Senate rules to lower the threshold for Supreme Court justices from 60 votes to a simple majority in the 100-member Senate.

Although such a change might seem procedural or obscure, it is known on Capitol Hill as the "nuclear option" because it would amount to a

dramatic departure from Senate norms of bipartisanship and collegiality.

Changing Senate rules would not be unprecedented. In 2013, Democrats were in the majority and upset about appellate court nominees getting blocked. They pushed through a rules change lowering the vote threshold on all nominees except for the Supreme Court from 60 to a simple majority.

Schumer warned against the rules change in an interview with The Associated Press on Thursday, arguing that Republicans would be the ones to blame if it does occur.

"Senate Republicans are acting like if Gorsuch doesn't get 60 votes they have no choice but to change the rules," Schumer said. "That is bunk."

Schumer's comments came after Sens. Joe Manchin of West Virginia and Heidi Heltkamp of North Dakota became the first two Democrats to announce their support for Gorsuch, and the only ones so far. Manchin said in a statement, "I hold no illusions that I will agree with every decision Judge Gorsuch may issue in the future, but I have not found any reasons why this jurist should not be a Supreme Court Justice."

IMMIGRATION

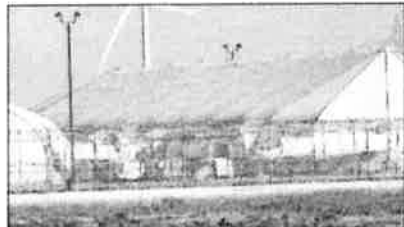
Empty jails hope to cash in on crackdown on illegals

By Claudia Lauer
 The Associated Press

DALLAS — Several Texas counties that are struggling with debt because their jails have few or no prisoners hope to refill those cell-blocks with a different kind of inmate: immigrants who have entered the country illegally.

The debt dates back to the 1990s and the first decade of the 2000s, when some rural counties were losing employment prospects and population.

To bring jobs and money, they built correctional centers with hundreds and sometimes more than a thousand beds that could be used to house inmates from other counties as well as prisoners for the state



Signs attached to the inside of the prison yard near the tent facilities read: "THE END IS NEAR" and "STILL HERE" at the Willacy County Correctional Center on Feb. 26, 2015, in Raymondville, Texas. Management and Training Corp. recently purchased the detention center that was shuttered after a 2015 inmate riot left it uninhabitable. (DAVID PIKE/VALLEY MORNING STAR VIA THE ASSOCIATED PRESS. FILE)

and federal governments. In some cases, the strategy worked, at least for a while. But a decline in crime and an increase in alternative sentencing reduced the Texas prisoner population and created a glut of jail space.

Now the debts, utility bills and maintenance are becoming so burdensome that counties are confronting a difficult choice. They can seek a federal contract to house some of the immigrants expected to be detained in President Donald Trump's immigration crackdown. Or they can call the feds

detention centers to private prison companies that aim to do the same.

Jails and private prisons across the country are weighing their options after the Department of Homeland Security announced in January that it was shopping for more jail space as part of its efforts to secure the border.

In some places, the situation is the reverse of Texas, with public prisons full and states paying for extra beds. A private prison operator that had been housing 250 inmates for Vermont recently dropped the state as a client because the

federal government will probably offer more for the same space.

"Anyone with vacant beds is hoping the federal government will lease them at a much higher rate," Lisa Menard, acting commissioner of the Vermont Department of Corrections told lawmakers in February. "Immigrations and customs enforcement are looking to lease beds everywhere."

Three vacant Texas detention centers have been sold to private prison companies in the last few weeks, according to county officials and records filed with the national Municipal Securities Rulemaking Board.

Some of the jails require updating to meet U.S. Immigration and Customs Enforcement standards, but the existing facilities could put Texas at an advantage compared with other states where the companies would have to spend months building detention space.

Meanwhile, the traditional inmate-holding business is still declining. A proposed budget from the Texas Senate would end state contracts with four facilities, including

three that are privately run, making it more important for those companies to get immigrant contracts to stay profitable.

ICE would not discuss how many beds the agency might need or its timetable for obtaining them. Agency spokesman Carl Rusnok declined to discuss any negotiations, citing the confidentiality of the federal contracting process.

At least one advocacy group is wary of the secretive process and of putting more detainees in privately run facilities after complaints and violations of inmate-care standards.

"If this is the plan to expand to the bottom of the barrel in detention centers, that should raise huge red flags for people concerned about immigrants' well-being and rights," said Bob Libal, executive director of Austin-based Grassroots Leadership, which seeks immigration and detention reform.

Management and Training Corp. recently purchased a South Texas detention center that was shuttered after a 2015 inmate riot left it uninhabitable. The Willacy County

NEIGHBORHOOD WORKSHOP NOTICE

For a proposed Special Use Permit and Site Plan for a new church building and associated infrastructure.

Date: April 17, 2017

Time: 6:00 p.m.

Place: Zion Lutheran Church
1700 NW 34th Street, Gainesville, FL 32605

Contact: eda engineers–surveyors–planners, inc. at (352) 373-3541

A neighborhood workshop will be held to discuss a proposed Special Use Permit and Site Plan for a new church building and associated infrastructure on tax parcel number 06416-030-000 located at 1700 NW 34th Street in Gainesville. This is not a public hearing. The purpose of this meeting is to inform neighboring property owners of the proposed development and to seek their comments.



Neighborhood Workshop Notice

06415-010-003 Zion Lutheran
ADAMS & SINDELAR
1729 NW 35TH WAY
GAINESVILLE, FL 32606

Neighborhood Workshop Notice

06415-010-002 Zion Lutheran
ARENS MATTHEW H & MARGARET M
1717 NW 35TH WAY
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06431-045-000 Zion Lutheran
ARLEN SHELLEY A LIFE ESTATE
3328 NW 18TH AVE
GAINESVILLE, FL 32605-3706

Neighborhood Workshop Notice

06415-020-009 Zion Lutheran
BARK ROBERT L
1786 NW 34TH ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06415-010-024 Zion Lutheran
BAUMSTARCK, ADAM J & JOAN E
133 STREAM VALLEY BLVD
FRANKLIN, TN 37064-6901

Neighborhood Workshop Notice

06415-010-028 Zion Lutheran
BHARGAVA, VEENA & ANIL KISHORE
3526 NW 18TH AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06415-020-017 Zion Lutheran
BRASINGTON-CRAPPS & CRAPPS
1826 NW 34TH ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06415-020-023 Zion Lutheran
BRAZZEL RICHARD
1848 NW 34TH ST #23
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06415-010-033 Zion Lutheran
BROWN DAWSON & JEAN W
1702 NW 35TH WAY
GAINESVILLE, FL 32605-3666

Neighborhood Workshop Notice

06415-020-015 Zion Lutheran
BUSTAMANTE VICTOR
1818 NW 34TH ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06405-001-012 Zion Lutheran
BYNUM, BARBARA & JOHN
PO BOX 733
FORT WHITE, FL 32038

Neighborhood Workshop Notice

06406-004-000 Zion Lutheran
CAPEHART BARNEY & LYNNE LIFE
ESTATE
1601 NW 35TH WAY
GAINESVILLE, FL 32605-4846

Neighborhood Workshop Notice

06406-002-000 Zion Lutheran
CARTER & MAZZARELLA
5932 NW 27TH TER
GAINESVILLE, FL 32653-1927

Neighborhood Workshop Notice

06415-010-021 Zion Lutheran
CHRISTOU, EVANGELOS & DEMETRA
3517 NW 18TH PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06415-010-001 Zion Lutheran
CLEDENIN & FISHER
1705 NW 35TH WAY
GAINESVILLE, FL 32605-3667

Neighborhood Workshop Notice

06415-010-030 Zion Lutheran
COTTLER MATTHEW R & LINDA B
3519 NW 18TH AVE
GAINESVILLE, FL 32605-3671

Neighborhood Workshop Notice

06415-020-014 Zion Lutheran
EDMISTON, MARK LIFE ESTATE
3031 NW 9TH PL
GAINESVILLE, FL 32605-5055

Neighborhood Workshop Notice

06415-002-046 Zion Lutheran
FLOYD M W & MARY
3540 NW 16TH BLVD
GAINESVILLE, FL 32605-3603

Neighborhood Workshop Notice

06415-020-022 Zion Lutheran
FLOYD, ERNISTINE & S WAYNE
4350 NW 107TH ST
GAINESVILLE, FL 32606

Neighborhood Workshop Notice

06415-020-002 Zion Lutheran
FLOYD, S WAYNE
4350 NW 107TH ST
GAINESVILLE, FL 32606

Neighborhood Workshop Notice

06415-020-019 Zion Lutheran
FONTNEAU, FRANCIS G IIKATHARI
1834 NW 34TH ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06431-015-000 Zion Lutheran
FOUR ACRES MOL LLC
220 NORTH MAIN ST
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

06415-020-006 Zion Lutheran
FOWLER MARK
1776 NW 34TH ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06405-001-002 Zion Lutheran
GADD & QUINN
1511 NW 35TH TER
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06415-020-004 Zion Lutheran
GIRIMONT TRINA MARIE
1768 NW 34TH ST #4
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06415-020-025 Zion Lutheran
GREENBRIAR TERRACE II LLC
4350 NW 107TH ST
GAINESVILLE, FL 32606

Neighborhood Workshop Notice

06405-001-010 Zion Lutheran
HEIPP & MACADAMS-HEIPP H/W
1500 NW 35TH TER
GAINESVILLE, FL 32605-4832

Neighborhood Workshop Notice

06415-010-023 Zion Lutheran
HERMAN THOMAS S TRUSTEE
2911 W HAWTHORNE RD
TAMPA, FL 33611

Neighborhood Workshop Notice

06415-010-019 Zion Lutheran
HGUYEN HUY
3527 NW 18TH PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

06415-020-016 Zion Lutheran
HIRSHIK LIFE ESTATE & HIRSHIK
2511 NW 36TH DR
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06405-003-000 Zion Lutheran
HOMEWOOD & HOMEWOOD TRUSTEES
3424 NW 15TH PL
GAINESVILLE, FL 32605-4825

Neighborhood Workshop Notice
06415-010-027 Zion Lutheran
HOWELL J ANDREAS & CATHERINE J
3522 NW 18TH AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-020-012 Zion Lutheran
JAMES CECILE BURNETT
PO BOX 358747
GAINESVILLE, FL 32635

Neighborhood Workshop Notice
06415-020-011 Zion Lutheran
JOHANNES & JOHANNES
1794 NW 34TH ST
GAINESVILLE, FL 32605-3727

Neighborhood Workshop Notice
06415-010-025 Zion Lutheran
JOHNSON KEVIN & COURTNEY
3508 NW 18TH AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06431-013-000 Zion Lutheran
JOHNSTON JOHN J & PATRICIA G
3311 NW 18TH AVE
GAINESVILLE, FL 32605-3705

Neighborhood Workshop Notice
06431-046-000 Zion Lutheran
KIRKLIN & RAY W/H
3300 NW 18TH AVE
GAINESVILLE, FL 32605-3706

Neighborhood Workshop Notice
06415-020-003 Zion Lutheran
LOTTEBERG & NIXON
1766 NW 34TH ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-020-020 Zion Lutheran
MALLOCH & MALLOCH
235 TREMONT LANE
SARASOTA, FL 34236

Neighborhood Workshop Notice
06415-010-020 Zion Lutheran
MAZZEO GEORGE C & ROBERTA J
3523 NW 18TH PL
GAINESVILLE, FL 32605-3673

Neighborhood Workshop Notice
06415-020-007 Zion Lutheran
MCCARTY PHYLLIS R
1780 NW 34TH ST UNIT # 7
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-010-029 Zion Lutheran
MCDANIEL ROBERT A & ANNA M
3525 NW 18TH AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06405-001-001 Zion Lutheran
MCKENNA MICHAEL L
1521 NW 35TH TER
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-020-001 Zion Lutheran
MOHAMMED & VERMA
1760 NW 34TH ST UNIT 1
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06431-014-000 Zion Lutheran
NEW & SPEARS-NEW H/W
3321 NW 18TH AVE
GAINESVILLE, FL 32605-3705

Neighborhood Workshop Notice
06405-001-003 Zion Lutheran
OSTER & RILEY H/W
1425 NW 35TH TER
GAINESVILLE, FL 32605-4829

Neighborhood Workshop Notice
06415-010-032 Zion Lutheran
PAGE WILLIAM H & JUDITH W
1714 NW 35TH WAY
GAINESVILLE, FL 32605-3666

Neighborhood Workshop Notice
06415-010-022 Zion Lutheran
PENNEL MARY N
3511 NW 18TH PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-020-024 Zion Lutheran
PROIA, RICHARD R
1852 NW 34TH ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06406-003-000 Zion Lutheran
RICHTNER ULLA
1602 NW 35TH WAY
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06431-044-000 Zion Lutheran
RIVERA LUIS A
PO BOX 357113
GAINESVILLE, FL 32635-7113

Neighborhood Workshop Notice
06415-010-031 Zion Lutheran
ROOKS & SPOSETTI H/W
1726 NW 35TH WAY
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-010-026 Zion Lutheran
ROSS CAROL FELDT
3514 NW 18TH AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-020-010 Zion Lutheran
ROSS MARY ANN VYDRA TRUSTEE
1790 NW 34TH ST UNIT 10
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-020-013 Zion Lutheran
RYDEN & RYDEN
1841 NW 35TH WAY
GAINESVILLE, FL 32605-3669

Neighborhood Workshop Notice
06405-006-000 Zion Lutheran
SALEM RAMI
3440 NW 15TH PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-010-006 Zion Lutheran
SISLER RAYMOND K & SUSAN K
PO BOX 358598
GAINESVILLE, FL 32635-8598

Neighborhood Workshop Notice
06415-020-026 Zion Lutheran
SMITH STANLEY K RITA J LIFE ESTATE
2707 NW 22ND AVE
GAINESVILLE, FL 32605-3823

Neighborhood Workshop Notice
06415-010-005 Zion Lutheran
STEIN GERALD H SARA E MORTON
LIFE ESTATE
1813 NW 35TH WAY
GAINESVILLE, FL 32605-3669

Neighborhood Workshop Notice
06415-020-018 Zion Lutheran
THOMPSON, CHRISTOPHER LSUSAN S
8515 CONGRESSIONAL DR
TALLAHASSEE, FL 32312

Neighborhood Workshop Notice
06405-001-011 Zion Lutheran
WAGNER W A & PATRICIA
1510 NW 35TH TER
GAINESVILLE, FL 32605-4832

Neighborhood Workshop Notice
06433-000-000 Zion Lutheran
WESTMINSTER PRESBYTERIAN CHURCH
1521 NW 34TH ST
GAINESVILLE, FL 32605-5033

Neighborhood Workshop Notice
06405-000-000 Zion Lutheran
WESTSIDE CHURCH OF GOD
1520 NW 34TH ST
GAINESVILLE, FL 32605-5040

Neighborhood Workshop Notice
06405-002-000 Zion Lutheran
WESTWOOD HILLS CHURCH OF GOD
TRUSTEES
GAINESVILLE, FL 32605-5040

Neighborhood Workshop Notice
06415-010-000 Zion Lutheran
WILLOWCROFT OWNERS ASSOCIATION
PO BOX 310
ALACHUA, FL 32616-0310

Neighborhood Workshop Notice
06415-020-008 Zion Lutheran
WITHERS RICHARD I
1782 NW 34TH ST UNIT 8
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-010-004 Zion Lutheran
WYANT, DENNIS R TRUSTEE
1731 NW 35TH WAY
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06415-020-021 Zion Lutheran
YOUNG, ROBERT GREGORY
1840 NW 34TH ST UNIT 21
GAINESVILLE, FL 32605

Neighborhood Workshop Notice
06416-030-000 Zion Lutheran
ZION EVANGELICAL LUTHERAN CHURCH
1700 NW 34TH ST
GAINESVILLE, FL 32605-3727

Neighborhood Workshop Notice

5th Avenue
ROBERTA PARKS
616 NW 8 ST
GAINESVILLE, FL 32602

Neighborhood Workshop Notice

CITY OF GAINESVILLE
ATTN: MIKE HOGE
PO BOX 490 MS 11
GAINESVILLE, FL 32627

Neighborhood Workshop Notice

Ashton
ROXANNE WATKINS
4415 NW 58 AVE
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

Azalea Trails
MARIE SMALL
1265 SE 12 AVE
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

REGINA HILLMAN
506 NW 30 STREET
GAINESVILLE, FL 32607

Neighborhood Workshop Notice

Capri
JOHN DOLES
4539 NW 37 TER
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Carol Estates South
BECKY RUNNESTRAND
1816 NE 16 TER
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

Cedar Grove II
HELEN HARRIS
1237 NE 21 ST
GAINESVILLE, FL 32641

Neighborhood Workshop Notice

Creekwood
HELEN SCONYERS
2056 NW 55 BLVD.
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

Debra Heights
SARAH POLL
PO BOX 14198
GAINESVILLE, FL 32604

Neighborhood Workshop Notice

Northwood at Possum Creek
WES WHEELER
4728 NW 37 WAY
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Duval
GILBERT S MEANS, SR
2153 SE HAWTHORNE RD, #111
PO BOX 7
GAINESVILLE, FL 32641

Neighborhood Workshop Notice

Edgewood Hills
BONNIE O'BRIAN
2329 NW 30 AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

LEE NELSON
DIRECTOR OF REAL ESTATE – UF
204 TIGERT HALL
PO BOX 113100
GAINESVILLE, FL 32611-3100

Neighborhood Workshop Notice

Gateway Park
HAROLD SAIVE
1716 NW 10 TER
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

Golfview
CHRIS MONAHAN
222 SW 27 ST
GAINESVILLE, FL 32607

Neighborhood Workshop Notice

Greater Northeast Community
MIRIAM CINTRON
915 NE 7 AVE
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Grove Street
MARIA HUFF-EDWARDS
1102 NW 4 ST
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Hazel Heights
ALLAN MOYNIHAN
PO BOX 357412
GAINESVILLE, FL 32635

Neighborhood Workshop Notice

Hibiscus Park
CAROL BISHOP
2616 NW 2 AVE
GAINESVILLE, FL 32607

Neighborhood Workshop Notice

Hidden Lake
GEORGE KASNIC
2116 NW 74 PL
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

Highland Court Manor
DAVID SOUTHWORTH
3142 NE 13 ST
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

Ironwood
NANCY TESTA
4207 NE 17 TER
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

Kensington Park
MAXINE HINGE
5040 NW 50 TER
GAINESVILLE, FL 32606

Neighborhood Workshop Notice

Kingswood Court
JOHN ORTON
5350 NW 8 AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Kirkwood
JANE BURMAN-HOLTON
701 SW 23 PL
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Lamplighter
LARRY NICHOLSON (PROP MGR)
5200 NE 50 DR
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

Landmark Woods
JACK OSGARD
4332 NW 12 PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Las Pampas
PETER JANOSZ
3418 NW 37 AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Woodland Terrace
PETER PRUGH
207 NW 35 ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Lincoln Estates
DORIS EDWARDS
1040 SE 20 ST
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Mason Manor
JOANNA LEATHERS
2550 NW 13 AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

North Lincoln Heights
ANDREW LOVETTE SR.
430 SE 14 ST
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Northwood
SUSAN W. WILLIAMS
PO BOX 357492
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

Northeast Neighbors
SHARON BAUER
1011 NE 1 AVE
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Northwest Estates
VERN HOWE
3710 NW 17 LN
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Oakview
DEBRA BRUNER
914 NW 14 AVE
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Appletree
JUDITH MORROW
3616 NW 54 LANE
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

Pine Park
DELORES BUFFINGTON
721 NW 20 AVE
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

Kirkwood
KATHY ZIMMERMAN
1127 SW 21 AVE
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Pleasant Street
DOTTY FAIBISY
505 NW 3 ST
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Porters Community
GIGI SIMMONS
712 SW 5 ST
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Rainbows East
JOE THOMAS
5014 NW 24 TER
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Rainbows End
SYLVIA MAGGIO
4612 NW 21 DR
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Raintree
RONALD BERN
1301 NW 23 TER
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Ridgeview
ROB GARREN
1805 NW 34 PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Ridgewood
KERRI CHANCEY
1310 NW 30 ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Royal Gardens
DOUGLAS BURTON
2720 NW 27 PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Shadow Lawn Estates
CONNIE SPITZNAGEL
3521 NW 35 PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

South Black Acres
DEANNA MONAHAN
14 SW 32 ST
GAINESVILLE, FL 32607

Neighborhood Workshop Notice

Southeast Evergreen Trails
MAUREEN RESCHLY
1208 SE 22 AVE
GAINESVILLE, FL 32641

Neighborhood Workshop Notice

Springhill/Mount Olive
VIVIAN FILER
1636 SE 14 AVE
GAINESVILLE, FL 32641

Neighborhood Workshop Notice

Springtree
KATHY MEISS
2705 NW 47 PL
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Stephen Foster
ROBERT PEARCE
714 NW 36 AVE
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

Suburban Heights
BETH GRAETZ
4321 NW 19 AVE
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Sugarfoot Community/Anglewood
HEATHER REILLY
426 SW 40 TERRACE
GAINESVILLE, FL 32607

Neighborhood Workshop Notice

Sugarhill
CYNTHIA COOPER
1441 SE 2 TER
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Sutters Landing
PETER REBMAN
3656 NW 68 LN
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

Turkey Creek Forest Owners Assn
ATTN: RITA SMITH
8620 NW 13 ST, #210 CLUBHOUSE OFFICE
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

University Park
JIMMY HARNSBERGER
402 NW 24 ST
GAINESVILLE, FL 32604

Neighborhood Workshop Notice

University Village
BRUCE DELANEY
1710 NW 23 ST
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Forest Ridge/Henderson Heights
JUANITA CASAGRANDE
1911 NW 22 DRIVE
GAINESVILLE, FL 32605-3953

Neighborhood Workshop Notice

Appletree
CHRIS GARCIA
5451 NW 35 DR
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

Ashton
ASHTON HOMEOWNERS ASSOC
5200 NW 43 ST STE 102
GAINESVILLE, FL 32606

Neighborhood Workshop Notice

Duckpond
STEVE NADEAU
2821 NW 23 DR
GAINESVILLE, FL 32605

Neighborhood Workshop Notice

Duckpond
MELANIE BARR
216 NE 5 ST
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Front Porch Florida, Duval
JUANITA MILES HAMILTON
2419 NE 8 AVE
GAINESVILLE, FL 32641

Neighborhood Workshop Notice

Porters
RUBY WILLIAMS
237 SW 6 ST
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Porters
INA HINES
320 SW 5 AVE
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

School Board
VICK McGRATH
3700 NE 53 AVE
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

University of Florida
LINDA DIXON
PO BOX 115050
GAINESVILLE, FL 32611

Neighborhood Workshop Notice

University Park
MEL LUCAS
620 E UNIVERSITY AVE
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Millennium Bank
DANNY GILLILAND
4340 NEWBERRY RD
GAINESVILLE, FL 32607

Neighborhood Workshop Notice

Florida Bank
LAUDE ARNALDI
13840 W NEWBERRY RD
NEWBERRY, FL 32669

Neighborhood Workshop Notice

LARRY SCHNELL
2048 NW 7 LN
GAINESVILLE, FL 32603

Neighborhood Workshop Notice

MAC McEACHERN
1020 SW 11 TER
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Stephen Foster Neighborhood Assoc, Inc
MARIA PARSONS
439 NW 37 AVENUE
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

BOBBIE DUNNELL
3118 NE 11 TER
GAINESVILLE, FL 32609

Neighborhood Workshop Notice

JAMES WOODLAND
225 SE 14 PL
GAINESVILLE, FL 32601

Neighborhood Workshop Notice

Bivens North Association
PENNY WHEAT
2530 SW 14 DR
GAINESVILLE, FL 32608

Neighborhood Workshop Notice

STEWART WELLS
6744 NW 36 DR
GAINESVILLE, FL 32653

Neighborhood Workshop Notice

BELLINGTON'S CUSTOM SERVICE
% BRAXTON LINTON
1907 SE HAWTHORNE RD
GAINESVILLE, FL 32641

Neighborhood Workshop Notice

KAREN BILLINGS
2123 NW 72 PL
GAINESVILLE, FL 32653



engineers • surveyors • planners, inc
 2404 NW 43rd Street
 Gainesville, FL 32606



Neighborhood Workshop Notice
 University Park
 JIMMY HARNBERGER
 402 NW 24 ST
 GAINESVILLE, FL 32604

X

NIXIE 322 SE 1 0004/05/17
 RETURN TO SENDER
 NOT DELIVERABLE AS ADDRESSED
 UNABLE TO FORWARD
 BC: 32606660204 *1638-06477-31-40
 3 32607-268E



engineers • surveyors • planners, inc
 2404 NW 43rd Street
 Gainesville, FL 32606



Neighborhood Workshop Notice
 06415-010-000 Zion Lutheran
 WILLOWCROFT OWNERS ASSOCIATION
 PO BOX 316
 ATLANTA, FL 32610-0310

x 15 B

NIXIE 322 SE 1 0004/05/17
 RETURN TO SENDER
 NOT DELIVERABLE AS ADDRESSED
 UNABLE TO FORWARD
 BC: 32606660204 *1638-05854-31-40

NIXIE 322 SE 1 0004/05/17
 RETURN TO SENDER
 NOT DELIVERABLE AS ADDRESSED
 UNABLE TO FORWARD
 BC: 32606660204 *1638-05854-31-40



Neighborhood Workshop Notice
 Spanglec
 KATHY MEISS
 2705 NW 47 PL
 GAINESVILLE, FL 32605

32605-121705





engineers • surveyors • planners, inc
 2404 NW 43rd Street
 Gainesville, FL 32606

Registered Recipient Notice

Clackwell
 HELEN SCOVENS
 2036 NW 55 BLVD
 GAINESVILLE, FL 32603



NIXIE 522 SE 1 0004/06/17

RETURN TO SENDER
 NOT DELIVERABLE AS ADDRESSED
 UNABLE TO FORWARD

EC: 32606660204 *1628-01E73-32-60

32606660204



engineers • surveyors • planners, inc
 2404 NW 43rd Street
 Gainesville, FL 32606



NIXIE 522 SE 1 0004/06/17

RETURN TO SENDER
 NOT DELIVERABLE AS ADDRESSED
 UNABLE TO FORWARD

EC: 32606660204 *1628-01E73-32-60

32606660204

Registered Recipient Notice
 Turkey Creek Forest Owners Assoc
 ATTN: BILLY SMITH
 8600 NW 13 ST #210 CLUBHOUSE OPTN1
 GAINESVILLE, FL 32603

32606660204



eda

engineers • surveyors • planners, inc.

Neighborhood Meeting - Sign-in-Sheet

Project: Proposed Special Use Permit and Site Plan for a new church building and associated infrastructure.

Date & Time: April 17, 2017 @ 6:00pm

Location: Zion Lutheran Church
1700 NW 34th Street, Gainesville, FL 32605

NAME	ADDRESS	PHONE	EMAIL
John Bergert	5225 S.W. 14th St	373-9466	lightn1n12@a1n12.com
Chris Bergert	2250 NW 24th Ave	371-6407	cbergert@off.edafl.com
Mike Johannes	1794 NW 34th St	256-426-2462	LTCMAJ443@6.MAIL.COM
GREG MEYER	7776 SW 88th ST	813 597 1228	gmeyer94@gmail.com
Stephen New	3521 NW 18 Ave	376-3693	DRS2NEW@BellSouth.net
Matt + Margaret Aios	1717 NW 35th Way	443-1078	matt.aios@hotmail.com
Rusty & Dawn + Kevin & Jo	28009 SW 83rd Ave NW	352-311-6090	QualityLutherans.org
Ken Dean	2249 NW 24th St	352-316-1462	deank@lutheranfl.com
MARK FOWLER	1716 NW 34th St NW	352-359-3575	MR.KRAMOI@6.MAIL.COM



Neighborhood Meeting Minutes

Project: Proposed Special Use Permit and Site Plan for a new church building and associated infrastructure.

Meeting Date & Time: April 17, 2017 @ 6:00pm

Location: Zion Lutheran Church
1700 NW 34th Street, Gainesville, FL 32605

Community Participants: See sign-in sheet

Attendees: As listed on attached Sign-in-Sheet

Project Representatives:

Civil Engineer: Sergio Reyes, PE, eda engineers–surveyors-planners, inc
Stephanie Sutton, eda engineers–surveyors-planners, inc.

Owner: Chris Borgert, Chairman of Congregation

Contractor: Rusty and Diana Kinnard.

Meeting Minutes:

Sergio Reyes, PE introduced the project and explained the purpose of the meeting. The church is proposing a New Sanctuary building for the church, about 200 seats- will be a unique building located close to intersection at 45° angle. Trying to save as many trees as possible on site and add minimal paving/impervious area.

FDOT is planning 34th St. improvements, limiting church entrance on 34th Street to right in/right out. Th site plan for this project will include entrance/exit for church on 16th Blvd. Existing building will remain and be connected by walkway/boardwalk to new building.

This meeting is the first step in process for City approval. We are here to gather feedback, submit to City, have public hearing at Plan Board, and then start construction.

Chris Borgert introduced himself as the Chairman of the Congregation at Zion. The church been here for 40+ years, and the existing building was meant to be temporary for about 10 years. The church has always had plans for an additional sanctuary. Architect, John Zona, built Baughman Center and Chapel in Live Oak-A1A top buildings in Florida. Hope to break ground this year. He introduced Rusty and Diana Kinnard who will be the contractors for the project. Goal is to have construction complete for Christmas services in 2018.

Sergio Reyes opened the meeting up for questions from attendees:

Question- Can you tell us more about 34th St. access? Is the road being widened?

Answer- FDOT extending left turn lane and adding hard median. Road isn't being widened- they are trying to improve safety without many improvements. Existing road width and available ROW limits the options.

Question-What will the entrance on 16th be like? Will it cross median?

Answer- No-will have median remain on 16th and entrance will be right in/right out only. People won't be able to make a left in or out. Will have to pass intersection and turn around. Will be an important to have new access on 16th.

Question-Were there other options proposed to DOT?

Answer- Yes-we proposed leaving the church entrance as-is, but they have a plan for safety improvements that go from University Ave to 39th Ave on 34th St.

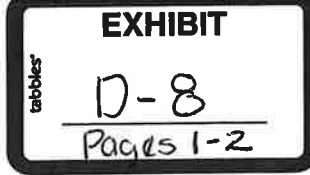
Question-What is the timeline for FDOT improvements?

Answer- They may start construction this year, but more likely next year. As far as the church entrance, 50-60% of congregation comes from south and will be able turn left on 16th, then right into church. The church doesn't expect increased traffic-church activities will remain as-is, they have outgrown current building.

Question-How high is the front elevation of the building?

Answer- It's 55', below the tree line- the building is designed to blend into site.

Meeting was concluded at 6:20pm.



August 30, 2017 – revised March 13, 2018

City of Gainesville
P.O. Box 490
Gainesville, Florida 32602

**Re: Zion Evangelical Lutheran Church
General Performance Standards**

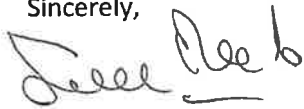
To Whom It May Concern:

In accordance with Section 30-345 of the City of Gainesville Land Development Code (LDC), the following letter indicates how this project meets the general standards as follow:

1. *Fire and explosion hazards*: No storage of flammable or explosive materials is proposed at the site. All the uses proposed will be in accordance with the RSF-1 zoning category.
2. *Radiation*: No sources of ionizing radiation will be handled on-site.
3. *Electromagnetic radiation*: No sources of electromagnetic radiation will be handled on-site.
4. *Waste disposal*: The waste from the site will be handled by the central sewer system of Gainesville Regional Utilities. The waste from the site including stormwater will meet state, federal, and local agency guidelines.
5. *Vibration*: There will be no heavy equipment in use or located on the site. Therefore, there will be no on-site earth-born vibration that will exceed the limits as set forth in this section.
6. *Sound*: There will be no heavy equipment in use or located on the site and no manufacturing. Therefore, sounds on-site will not exceed the limits set forth in Chapter 15.
7. *Heat, cold, dampness or movement of air*: No activities will take place on-site that will produce adverse effects on the temperature, motion or humidity of the atmosphere beyond the lot lines.
8. *Lighting*: Lighting shall comply with requirements of this section for internal and external lighting as well as meet the height requirement for fixtures.
9. *Light pollution*: The external lights on the site shall be full cut-off, not allowing upward light distribution.

10. *Odor*: There will be no adverse odors produced on-site. No manufacturing or chemical operations will occur on the site. The development will consist of use allowed by the RSF-1 zoning only.
11. *Air pollution emissions*: No manufacturing or chemical operations will occur on the site. No air pollution emissions will be produced on-site.
12. *Other air pollution*: There will not be an excess amount of dust or airborne particulate matter generated on this site. No air pollution will be created associated with the development of this site that will exceed the standards set by the Florida Department of Environmental Protection, or successor agency, or any governmental entity with regulatory jurisdiction, whichever standards are more stringent.
13. *Toxics*: There will be no emissions of toxic or noxious matter on this site. No manufacturing or chemical operations will occur on the site
14. *Utility service*: Utility service on-site shall comply with the requirements of this provision and be installed underground.

Sincerely,



Sergio Reyes, P. E.
Project Engineer

PROPERTY OWNER AFFIDAVIT

Owner Name: Zion Lutheran Church			
Address: 1700 NW 34th Street Gainesville, FL 32605-3727		Phone: 352-376-9940	
Agent Name: eda engineers-surveyors-planners, inc.			
Address: 2404 NW 43rd Street Gainesville, FL 32606		Phone: 352-373-3541	
Parcel No.: 06416-030-000			
Acreage: 5.0	S: 35	T: 09	R: 19
Requested Action:			

I hereby certify that: I am the owner of the subject property or a person having a legal or equitable interest therein. I authorize the above listed agent to act on my behalf for the purposes of this application.

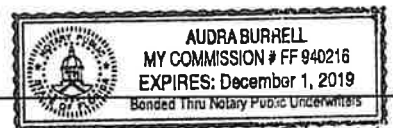
Property owner signature: Christopher J. Borgert

Printed name: Christopher J. Borgert

Date: July 11, 2017

The foregoing affidavit is acknowledged before me this 11th day of July, 2017, by Audra Burrell, who is/are personally known to me, or who has/have produced Florida License as identification. DRIVERS

Audra Burrell
NOTARY SEAL



Signature of Notary Public, State of Florida

Parcel: 06416-030-000

Search Date: 12/23/2016 at 1:47:35 PM

Taxpayer:	ZION EVANGELICAL LUTHERAN, CHU	Legal: THAT PART OF E 650 FT OF S 526.17 FT OF NE1/4 LYING N OF 16TH BLVD LESS R/W 34TH ST OR 971/411
Mailing:	1700 NW 34TH ST GAINESVILLE, FL 32605-3727	
Location:	1700 NW 34TH ST GAINESVILLE	
Sec-Twn-Rng:	35-09-19	
Property Use:	07100 - Churches	
Tax Jurisdiction:	Gainesville - 3600	
Area:	Sec 1-36 OF 9-19	
Subdivision:	Placeholder	

	Property	Land	Land	Building	Misc	Total	Deferred	County	School	County	School	County	School	Total
YeaR	Use	Assessed Value	Just Value	Value	Value	Just Value	Value	Assessed	Assessed	Exempt	Exempt	Taxable	Taxable	Taxes
2016	Churches	175000	175000	179500	12300	366800	0	366800	366800	366800	366800	0	0	0
2015	Churches	175000	175000	181900	12400	369300	0	369300	369300	369300	369300	0	0	0
2014	Churches	175000	175000	184000	12400	371400	0	371400	371400	371400	371400	0	0	0
2013	Churches	175000	175000	186400	12500	373900	0	373900	373900	373900	373900	0	0	0
2012	Churches	175000	175000	188700	12600	376300	0	376300	376300	376300	376300	0	0	0
2011	Churches	175000	175000	193100	12700	380800	0	380800	380800	380800	380800	0	0	0
2010	Churches	175000	175000	195400	12700	383100	0	383100	383100	383100	383100	0	0	0
2009	Churches	175000	175000	197800	12800	385600	0	385600	385600	385600	385600	0	0	0
2008	Churches	175000	175000	200100	12900	388000	0	388000	0	388000	0	0	0	0
2007	Churches	175000	175000	187500	12900	375400	0	375400	0	375400	0	0	0	0
2006	Churches	175000	175000	164900	13000	352900	0	352900	0	352900	0	0	0	0

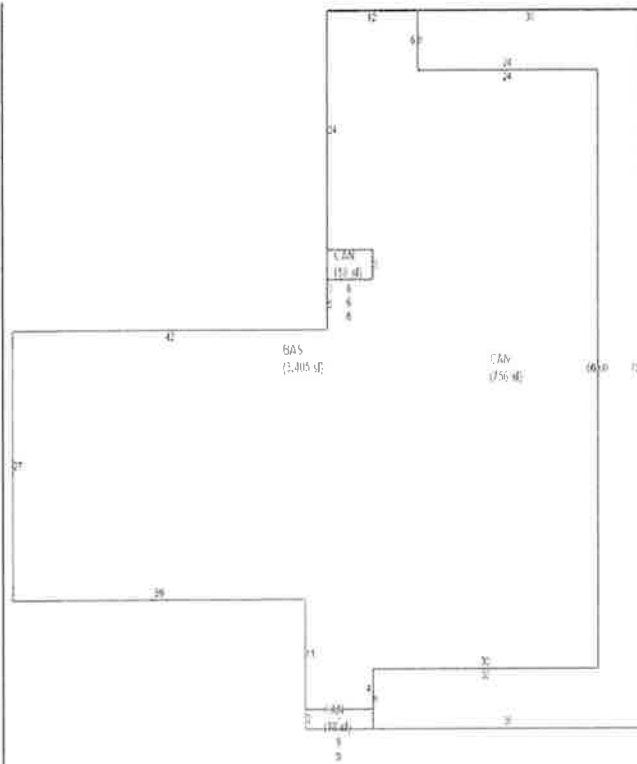
Land

Use	Zoning Type	Zoning Desc	Unit Type	Units
Church	RSF1		Acre	5
2016 Certified Land Just Value: 175000				2016 Certified Land Assessed Value: 175000

Building

Actual Year Built	1976	Footprint_file = 46933_46933.jpg
Effective Year Built	1986	
Building Quality	Average	
Building Style	Commercial	
Building Use	Church	
Bedrooms:		
Baths:		
Stories:	1.0	
Exterior Wall 1:	Average	
Exterior Wall 2:	N/A	
Interior Wall 1:	Panel	
Interior Wall 2:	Drywall	
Floor Cover 1:	Carpet	
Floor Cover 2:	N/A	
Roof Cover:	Minimum	
Roof Structure:	Mansard	
AC:	Roof Top Air	
Heating Type:	Forced Air	
Heating System:	Electric	
Total Square Feet:	4197	

Heated Square Feet:	3405
Area Type	Square Footage
BAS (BASE AREA)	3405
CAN (Canopy (No Sides))	792



2016 Certified Building Value: 179500

Miscellaneous

Description	Unit Type	Units
4680 - Paving 1	SF	20000
5221 - Stg 1	SF	240
3800 - Drive/Walk	UNITS	375
4420 - Lights	UNITS	3

2016 Certified Miscellaneous Value: 12300

Permit

County Permit information is supplied by the Alachua County Office of Codes Enforcement. The Alachua County Office of Codes Enforcement and the Property Appraiser's Office assume no liability whatsoever associated with the use or misuse of this public information data and will not be held liable as to the validity, correctness, accuracy, completeness, and / or reliability of this data.

Permit Number	Permit Type	Issue Date	Final Date	Appraisal Date	Comment
11-01375	BN	03/25/2011		01/24/2012	R/L
11-04877	RR	09/21/2011		01/24/2012	ROOF
05-01540	BN	03/30/2005	05/04/2005	01/11/2006	REMODEL



2016 Roll Details — Real Estate Account At 1700 NW 34TH ST

[Print this page](#)

Real Estate Account #06416 030 000 [Parcel details](#) [Latest bill](#) [Full bill history](#)

2016	2015	2014	2013	...	2002
NO TAXES DUE	NO TAXES DUE	PAID	PAID		NO TAXES DUE

[Get Bills by Email](#)

No taxes due

Owner: ZION EVANGELICAL LUTHERAN, CHU
 1700 NW 34TH ST
 GAINESVILLE, FL 32605-3727
Situs: 1700 NW 34TH ST

Account number: 06416 030 000
Alternate Key: 1046386
Millage code: 3600
Millage rate: 23.0735

Assessed value: 366,800
School assessed value: 366,800
Unimproved land value: 175,000

Exemptions

CHURCH: 366,800

Property Appraiser

Location is not guaranteed to be accurate.

2016 Annual bill

[View](#)

Ad valorem: \$0.00
Non-ad valorem: \$0.00
Total Discountable: 0.00
No Discount NAVA: 0.00
Total tax:

Legal description

THAT PART OF E 650 FT OF S 526.17 FT OF NE1/4 LYING N OF 16TH BLVD LESS R/W 34TH ST OR 971/411

Location

Book, page, Item: —
Geo number: 35-09-19-06416030000
Range: 19
Township: 09
Section: 35
Neighborhood: 114300.99
Use code: 07100
Total acres: 5.000



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[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Detail By Document Number](#) /

Detail by Entity Name

Florida Not For Profit Corporation
ZION EVANGELICAL LUTHERAN CHURCH, INC. OF GAINESVILLE, FLORIDA

Filing Information

Document Number 729956
FEI/EIN Number 59-2282003
Date Filed 06/18/1974
State FL
Status ACTIVE

Principal Address

1700 N.W. 34TH STREET
GAINESVILLE, FL 32605

Mailing Address

1700 N.W. 34TH STREET
GAINESVILLE, FL 32605

Registered Agent Name & Address

Brueggemann, John R
5225 SW 64th Street
Gainesville, FL 32508

Name Changed: 01/11/2014

Address Changed: 01/11/2014

Officer/Director Detail

Name & Address

Title Secretary

BRUEGGEMANN, JOHN R
5225 SW 64TH STREET
GAINESVILLE, FL 32608-4525

Title Treasurer

Marks, Steve
4527 NW 35th Terrace
Gainesville, FL 32605

Title President

BORGERT, CHRISTOPHER
2250 NW 24TH AVE
GAINESVILLE, FL 32605

Title VP

STAHMANN, ROBERT J
3756 SW 6TH PLACE
GAINESVILLE, FL 32607

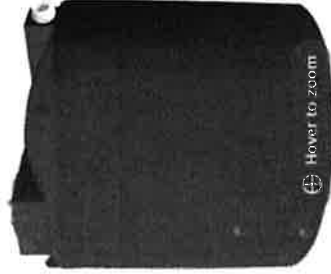
Annual Reports

Report Year	Filed Date
2015	02/21/2015
2016	03/07/2016
2017	01/24/2017

HOME / PLASTIC WATER TANKS / WATER STORAGE TANKS / RAINWATER COLLECTION TANKS / 2500 GALLON BLACK RAINWATER COLLECTION TANK

2500 GALLON POLY-MART BLACK RAINWATER COLLECTION TANK

also called [water storage container](#), [water cistern](#), [rainwater tank](#), [water tank](#)



- ✓ Complies with FDA standards 21 CFR 177.1520 (1) 3.1 and 3.2
- ✓ UV Stabilized Resin to prolong the life of your tank
- ✓ BPA Free Polyethylene Resin
- ✓ 5 Year manufacturer warranty
- ✓ Features 16" Screened Inlet, 3/4" Brass Spigot, 2" Outlet, & 4" Overflow

OTHER COLOR OPTIONS

- Dark Brown - Rainwater Tank
- Dark Green - Rainwater Tank
- Dark Grey - Rainwater Tank
- Light Blue - Rainwater Tank

[Show More](#)

Images may be inaccurate. See specs table below to ensure accuracy.

Quick Summary

PART# **MPN: PM2500RHB / Store ID: X9458421**

DIMENSIONS 96" Diameter x 65" Height

LIQUID ACCESS 3 Outlets, 1 Manway / Lid

WEIGHT / SHIP CLASS 360 lbs. / Ship Class 400

SHIPS FROM TX

DRAWING Poly-Mart PM2500RHB Drawing

~~\$1,499.00~~ **\$1,079.95**

On Sale! Save 28% Guaranteed for 10 hours only

Qty: 1

ADD TO CART

ADD-ONS

check items to add to the cart or select all



\$29.99



Tank Gauge

\$28.99

4" Round Inlet Filter & Advanced Rain Head

[Show More](#)



[Contact us](#)



APPLICATION FOR SPECIAL USE PERMIT
Planning & Development Services

OFFICE USE ONLY	
Petition No. _____	Fee: \$ _____
1 st Step Mtg Date: _____	EZ Fee: \$ _____
Tax Map No. _____	Receipt No. _____
Account No. 001-670-6710-3401 []	
Account No. 001-670-6710-1124 (Enterprise Zone) []	
Account No. 001-670-6710-1125 (Enterprise Zone Credit []	

Application for a special use permit will be accepted for review only after a pre-application conference (First Step Meeting). Application to be completed by applicant. Application must include a preliminary development plan. Incomplete applications will be returned to the applicant.

Name of Owner(s) (please print)
Name: Zion Evangelical Lutheran Church
Address:
1700 NW 34th Street
Gainesville, FL 32605
Phone: 352-376-9940 Fax:
Owner's Signature: affidavit provided
(If additional owners, please include on back)

Applicant(s)/Agent(s), if different
Name: eda engineers-surveyors-planners, inc.
Address:
2404 NW 43rd Street
Gainesville, FL 32606
Phone: 352-373-3541 Fax: 352-373-7249
sreyes@edafl.com

PROPERTY INFORMATION: (Information below applies to property for which a Special Use Permit is being requested.)
Street address: 1700 NW 34th Street, Gainesville, FL 32605
Tax parcel no(s): 06416-030-000
Legal description (use separate sheet, if needed): see attached

I hereby attest to the fact that the above supplied parcel number(s) and legal description(s) is (are) the true and proper identification of the area for which the permit is being requested.

Signature of applicant: Steve Noel Date: 8/29/17

Certified Cashier's Receipt:

A Special Use Permit is requested pursuant to Section 30, Subsection 91, Paragraph _____, of the Land Development Code, City of Gainesville, to allow the following use:

A preliminary site plan is/is not required and is/is not attached.

Existing zoning classification: RSF-1 Existing land use designation: RSF

Existing use of property: Religious Facility

SURROUNDING PROPERTY INFORMATION: (List all uses surrounding the subject property under "Existing use." Staff is available to supply zoning and land use information.)			
	Zoning	Land Use	Existing Use
North	PD	PD	Residential
South	RSF-1	RSF	Residential
East	RSF-1	RSF	Residential
West	RSF-1	RSF	Residential

TO THE APPLICANT: (Please sign the bottom of this application after you have read the following.)

- The City of Gainesville will notify owners of property within 400 feet of the subject property of this application.
- No application for a Special Use Permit shall be entertained within 2 years after the denial or withdrawal of a request for the same use for the same property.
- The City Plan Board's decision concerning a Special Use Permit may be appealed by the applicant to a hearing officer within 15 days of the date notification of the decision is sent by certified mail to the applicant.

Signature: *Sundee* Date: 8/29/17

Name of Owner (please print)	
Name: Zion Evangelical Lutheran Church	
Address:	
1700 NW 34th Street	
Gainesville, FL 32605	
Phone: 352-376-9940	Fax:
Owner's Signature: affidavit provided	
(If additional owners, please list on separate sheet)	

Name of Owner (please print)	
Name:	
Address:	
Phone:	Fax:
Owner's Signature:	

Reference: Chapter 30, Land Development Code
City Code of Ordinances, Article VII, Division 5

Special Use Permit Application



Project Request: A Special Use Permit application to permit construction of a new sanctuary building for the Zion Evangelical Lutheran Church.

Project Location: 1700 NW 34th Street (tax parcel 06416-030-000)

Project Owner: Zion Evangelical Lutheran Church

Submittal Date: August 24, 2017

Prepared By: eda engineers – surveyors – planners, inc.

Project Background & Request

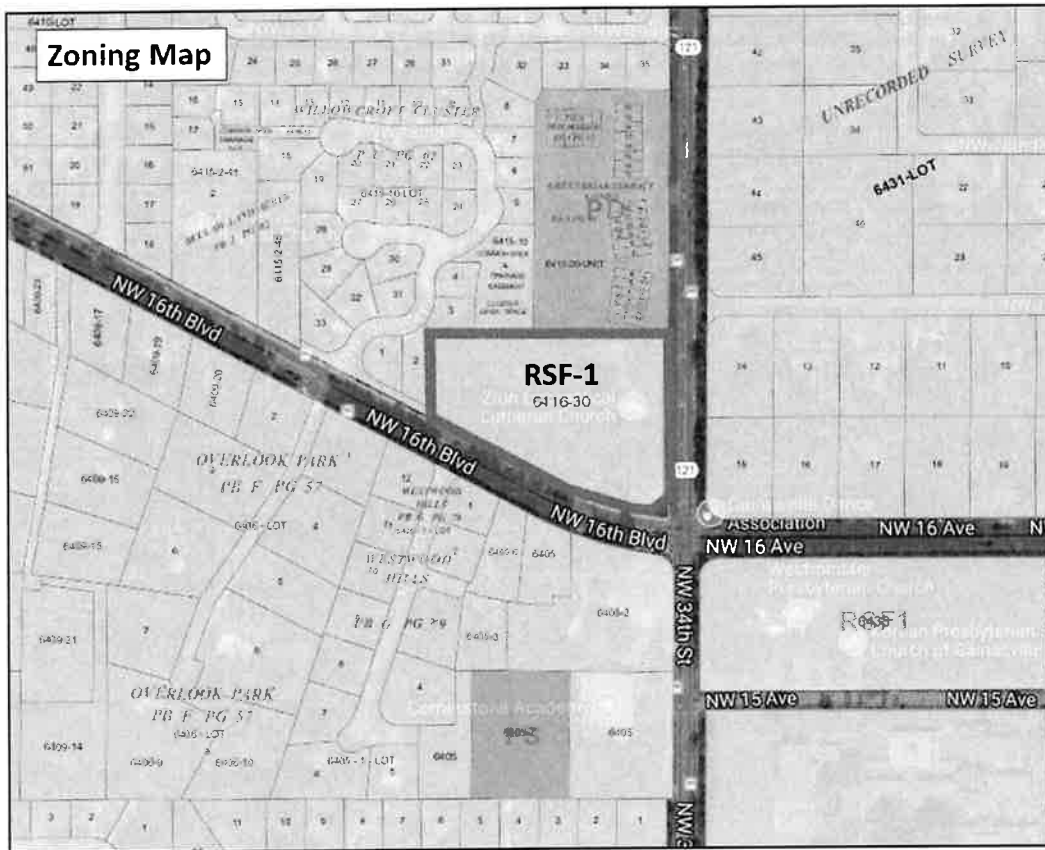
The owners of the subject property wish to construct a new sanctuary building with associated infrastructure improvements at 1700 NW 34th Street. The project site is located on approximately 5 (+/-) acres and has been the home of the existing Zion Evangelical Lutheran Church for decades. The proposed improvements will allow the church to expand its facilities in order to better serve the existing congregation.

A Site Plan is required to permit the proposed site improvements, including a new building, parking lot additions and a new stormwater area. In addition, a Special Use Permit (SUP) application is required because the City of Gainesville Land Development Code Sec. 30-91 requires that places of religious assembly located in the RSF-1, RSF-2, RSF-3 and RSF-4 zoning districts receive Special Use Permit approval from the City Plan Board. The proposed Site Plan / Special Use Permit is designed in compliance with the applicable criteria outlined in the LDC as described in this report and application.

Future Land Use Designation and Zoning District

The subject property currently has a Single Family Residential Future Land Use map designation and is within the RSF-1 zoning district, as shown on the following maps:





Surrounding Property Characteristics

	Future Land Use	Zoning	Existing Use
North	Single Family Residential, Planned Use District	RSF-1 PD	Single Family Residential Townhouses
South	Single Family Residential Single Family Residential	RSF-1 RSF-1	Private School Single Family Residential
East	Single Family Residential	RSF-1	Single Family Residential
West	Single Family Residential	RSF-1	Single Family Residential

Consistency with Comprehensive Plan

The subject property has a Single Family Future Land Use designation. Policy 4.1.1 of the Future Land Use Element defines the Single Family future land use category as:

The Single Family future land use category shall allow single-family detached dwelling at density of up to 8 dwelling units per acre. The Single-Family land use classification identifies those areas within the City that, due to topography, soil conditions, surrounding land uses and development patterns, are appropriate for single-family development. Land development regulations shall specify criteria for the siting of appropriate

community-level institutional facilities such as places of religious assembly, public and private schools other than institutions of higher learning and libraries.

As stated in the policy above, the Single Family future land use designation states that places of religious assembly are appropriate when proposed at a modest scale and designed to integrate into the surrounding community. The proposed addition to the existing Zion Evangelical Lutheran Church complies with these standards as it provides setbacks and landscape buffers from adjacent residential areas and is designed to focus activity toward the public streets and is therefore consistent with the intent of the Single Family future land use designation.

In addition, the subject property has Single Family 1 (RSF-1) zoning designation that implement the Single Family Future Land Use designation. Policy 4.7.1 includes a table which identifies the corresponding/implementing zoning district for each future land use category. This table indicates that the corresponding zoning districts for the Single Family future land use category are RSF-1, RSF-2, RSF-3, RSF-4, RSF-R, CON, PD and PS.

Consistency with Land Development Code

As stated, the subject property has a RSF-1 zoning district designation. Places of religious assembly are specifically listed as a permitted use by Special Use Permit in Sec. 30-51(c)(2) of the Land Development Code. Specifically, Sec. 30-51(a) of the LDC states that *the single family districts are established for the purpose of providing areas for low density single-family residential development with full urban services at locations convenient to urban facilities, neighborhood convenience centers, neighborhood shopping centers and activity centers. These districts are characterized by single-family residential structures designed and located so as to protect the character of single-family residential neighborhoods.* Further, Sec. 30-51(b) indicates that these zoning districts are designed to protect essential characteristics of existing development and neighborhoods, encourage development on vacant land where characteristics are suitable for development and develop in areas served by urban services and facilities.

The proposed sanctuary building will help serve the existing Zion Evangelical Lutheran Church that has been a fixture in the neighborhood for decades. The property is currently developed with a church facility and appropriate urban public facilities are available to serve the proposed church expansion. This Site Plan that proposes the church expansion has been prepared sensitively in relation to the abutting neighborhood, thus meeting the intent of these residential zoning districts. Specifically, the proposed sanctuary building has been placed oriented toward the intersection of NW 16th Blvd and NW 34th Street and is at least 50 feet from all abutting residential lots.

Special Use Permit Criteria

The proposed improvements to the existing church facility are consistent with the criteria outlined in Sec. 30-91 and Sec. 30-233. These code citations are cited below, followed by the applicant's response to each requirement:

Sec. 30-91 – Places of Religious Assembly

(a) Within the RSF-1, RSF-2, RSF-3 and RSF-4 districts, places of religious assembly are allowed upon the granting of a special use permit, subject to the following additional dimensional requirements:

(1) Minimum lot area shall be one acre for each place of religious assembly with a building code capacity of 100 persons or less plus an additional one-half for each additional 50 persons of building code capacity.

Response: Based on the size of the parcel, a place of religious assembly building with up to 500 seats is allowed. The proposed building is approximately 200 seats.

(2) Minimum yard setbacks:

- a. Front: 25 feet*
- b. Side, interior: 50 feet and 45% angle of light*
- c. Side, street: 25 feet*
- d. Rear: 50 feet and 45% angle of light*

Response: The proposed site plan meets each of the above referenced building setbacks. The proposed building is in compliance with the setbacks required above.

Sec. 30-233 – Criteria for issuance

No special use permit shall be approved by the city plan board unless the following findings are made concerning the proposed special use:

(1) That the use or development complies with all required regulations and standards of this chapter and all other applicable regulations.

Response: As indicated in this report, the proposed sanctuary building and related uses are consistent with the underlying Single Family Residential future land use designation and RSF-1 zoning district and complies with all associated regulations. Specifically, the proposed site plan is consistent with the use-specific regulations outlined in Sec. 30-91. In addition, the project is located in an area with adequate urban public facilities and services to serve the proposed development.

(2) That the proposed use or development will have general compatibility and harmony with the uses and structures on adjacent and nearby properties.

Response: The subject property has historically operated as a church facility and is compatible with the existing land use pattern of adjacent properties, including single family residential homes. In addition, the proposed site plan has been designed to orient the activity toward the street and the new building is placed away from the adjacent residences.

(3) *That necessary public utilities are available to the proposed site and have adequate capacity to service the proposed use and development.*

Response: Electric, gas, water and sanitary sewer are available to serve the site at an adequate level of service.

(4) *That the use or development is serviced by streets of adequate capacity to accommodate the traffic impacts of the proposed use.*

Response: The proposed building will not result in an increased impact that will exceed the approved level of service standards for the local road network. The project is located in Zone B of the Transportation Mobility Program Area (TMPA), which encourages infill development.

(5) *That screening and buffers are proposed of such type, dimension and character to improve compatibility and harmony of the proposed use and structure with the uses and structures of adjacent and nearby properties.*

Response: As part of the Site Plan submittal, a landscape plan prepared by a registered Landscape Architect is included to bring the site into code compliance for on-site landscaping.

(6) *That the use or development conforms with the general plans of the city as embodied in the city comprehensive plan.*

Response: The Single Family Residential Future Land Use category identifies those areas within the City that allow for residential development. In addition, the category also allows 'appropriate community-level institutional facilities such as places of religious assembly, public and private schools other than institutions of higher learning, and libraries.' The proposed sanctuary building will serve the existing church facility that has been woven into the fabric of the area for years.

In addition, the proposed church expansion is consistent with FLUE Polity 1.1.1, which states that 'all planning shall be in the form of complete and integrated communities containing housing, shops, work places, schools, parks and civic facilities essential to the daily life of residents.' The Zion Evangelical Lutheran Church is a civic facility that has served the local community for many years and the proposed improvements will allow the church to continue their ministry.

(7) That the proposed use or development meets the level of service standards adopted in the comprehensive plan and conforms with the concurrency management requirements of this chapter as specified in article III, division 2.

Response: All required public facilities are readily available to serve the site and the proposed development associated with the proposed Special Use Permit application will not result in an increase beyond the approved level of service standards for the applicable public facilities serving the site and therefore, is in conformance with the level of service standards and concurrency management requirements in the Comprehensive Plan.



PLANNING AND DEVELOPMENT SERVICES DEPARTMENT
PLANNING DIVISION
PO Box 490, Station 12
Gainesville, FL 32627-0490
P: (352) 334-5023
F: (352) 334-3259

PUBLIC NOTICE SIGNAGE AFFIDAVIT

Petition Name _____

Applicant (Owner or Agent) eda engineers. surveyors. planners, inc

Tax parcel(s) 6416-30

Being duly sworn, I depose and say the following:

1. That I am the owner or authorized agent representing the application of the owner and the record title holder(s) of the property described by the tax parcel(s) listed above;
2. That this property constitutes the property for which the above noted petition is being made to the City Of Gainesville;
3. That this affidavit has been executed to serve as posting of the "Notice of Proposed Land Use Action" sign(s) which describes the nature of the development request, the name of the project, the anticipated hearing date, and the telephone number(s) where additional information can be obtained. In addition, the applicant has securely posted the sign(s) on the property along each street frontage, at intervals of not more than four hundred (400) feet, and set back no more than ten (10) feet from the street and visible from the street. If the property does not abut a public right-of-way, signs have been placed at the nearest public right-of-way with an indication of the location of the subject property.
4. That the applicant has posted the sign(s) at least fifteen (15) days prior to the scheduled public hearing date; or for Historic Preservation Certificate of Appropriateness applications, at least ten (10) days prior to the scheduled public hearing date.
5. That the applicant shall maintain the signs(s) as provided above until the conclusion of the development review and approval process and that the signs shall be removed within ten (10) days after the final action has been taken on the development application.
6. That I (we), the undersigned authority, hereby certify that the foregoing statements are true and correct.

7. _____
Melissa Watson

8. Applicant (signature) Melissa Watson Applicant (print name)

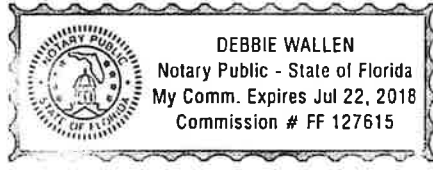
STATE OF FLORIDA,
COUNTY OF ALACHUA

Before me the undersigned, an officer duly commissioned by the laws of the State of Florida, on this 11th day of April, 2018, personally appeared who having been first duly sworn deposes and says that he/she fully understands the contents of the affidavit that he/she signed.

Debbie Wallen Notary

Public
My Commission expires: 7-22-18

RECORDING SPACE



DEBBIE WALLEN
Notary Public - State of Florida
My Comm. Expires Jul 22, 2018
Commission # FF 127615

Form revised on March 11, 2014. Form location: <http://www.cityofgainesville.org/PlanningDepartment.aspx>

FOR OFFICE USE ONLY
Petition Number _____ Planner _____

CITY OF GAINESVILLE
NOTICE
OF PROPOSED
LAND USE ACTION

A PUBLIC HEARING IS SCHEDULED TO CONSIDER A REQUEST FOR:

- A REQUEST FOR A SPECIAL USE PERMIT FOR A PLACE OF RELIGIOUS ASSEMBLY ON PARCEL 6416-30 ZONED RSF-1 -
- AND A DEVELOPMENT PLAN FOR A NEW SANCTUARY BUILDING LOCATED AT 1700 NW 31st STREET

WHEN: APRIL 26, 2018 @ 6:30 pm

WHERE: CITY HALL AUDITORIUM
200 E. UNIVERSITY AVE

FOR MORE INFORMATION CONTACT THE PLANNING DEPARTMENT AT 334-5023
Additional details will be posted on our website prior to the meeting.
Please visit us at www.cityofgainesville.org/planningdepartment

CITY OF GAINESVILLE
NOTICE
OF PROPOSED
LAND USE ACTION

A PUBLIC HEARING IS SCHEDULED TO CONSIDER A REQUEST FOR:

A REQUEST FOR A SPECIAL USE PERMIT FOR A PLACE
OF RELIGIOUS ASSEMBLY ON PARCEL 6416-30, ZONED RSF-1,
AND A DEVELOPMENT PLAN FOR A NEW SANCTUARY BUILDING
LOCATED AT 1700 NW 31st Street.

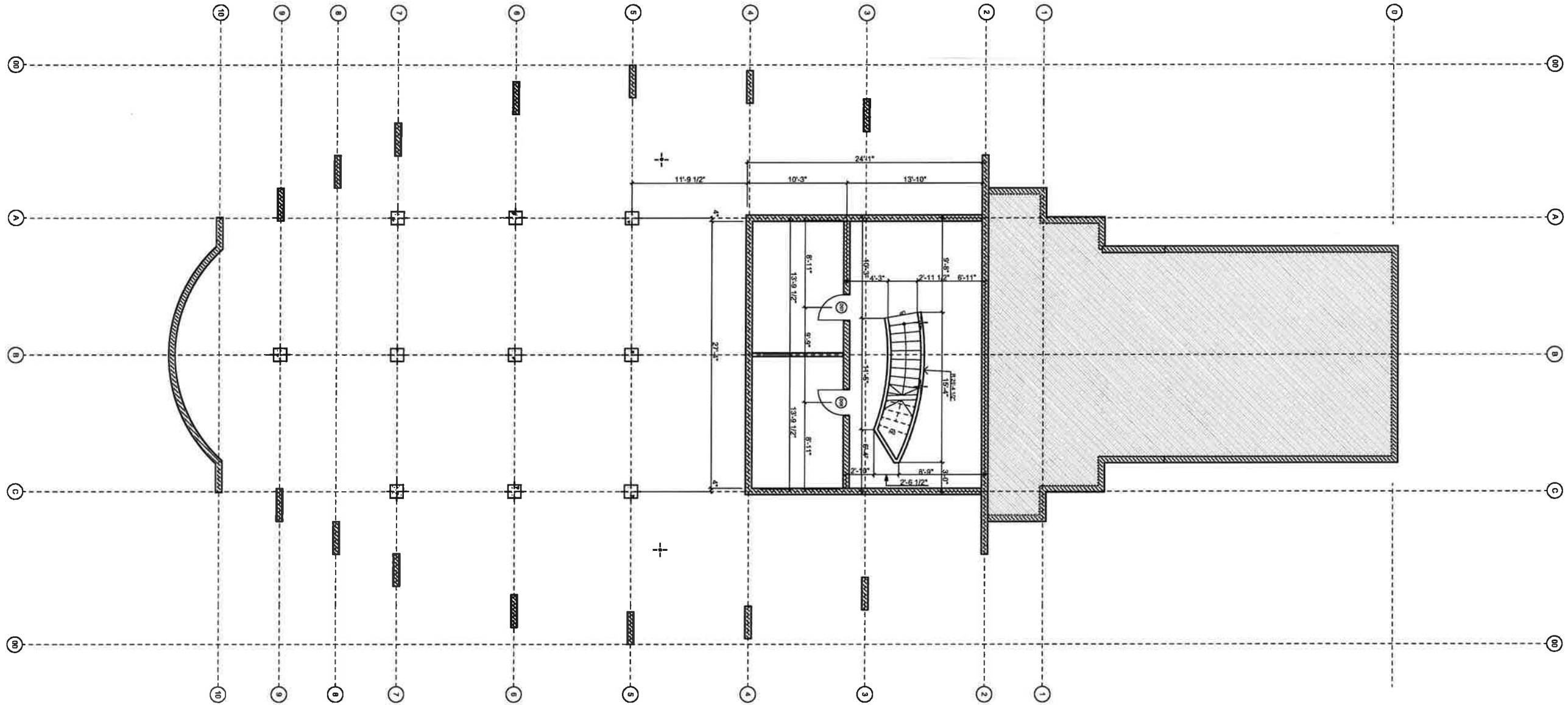
WHEN: APRIL 26, 2018 @ 6:30 pm

WHERE: CITY HALL AUDITORIUM
200 E UNIVERSITY AVE

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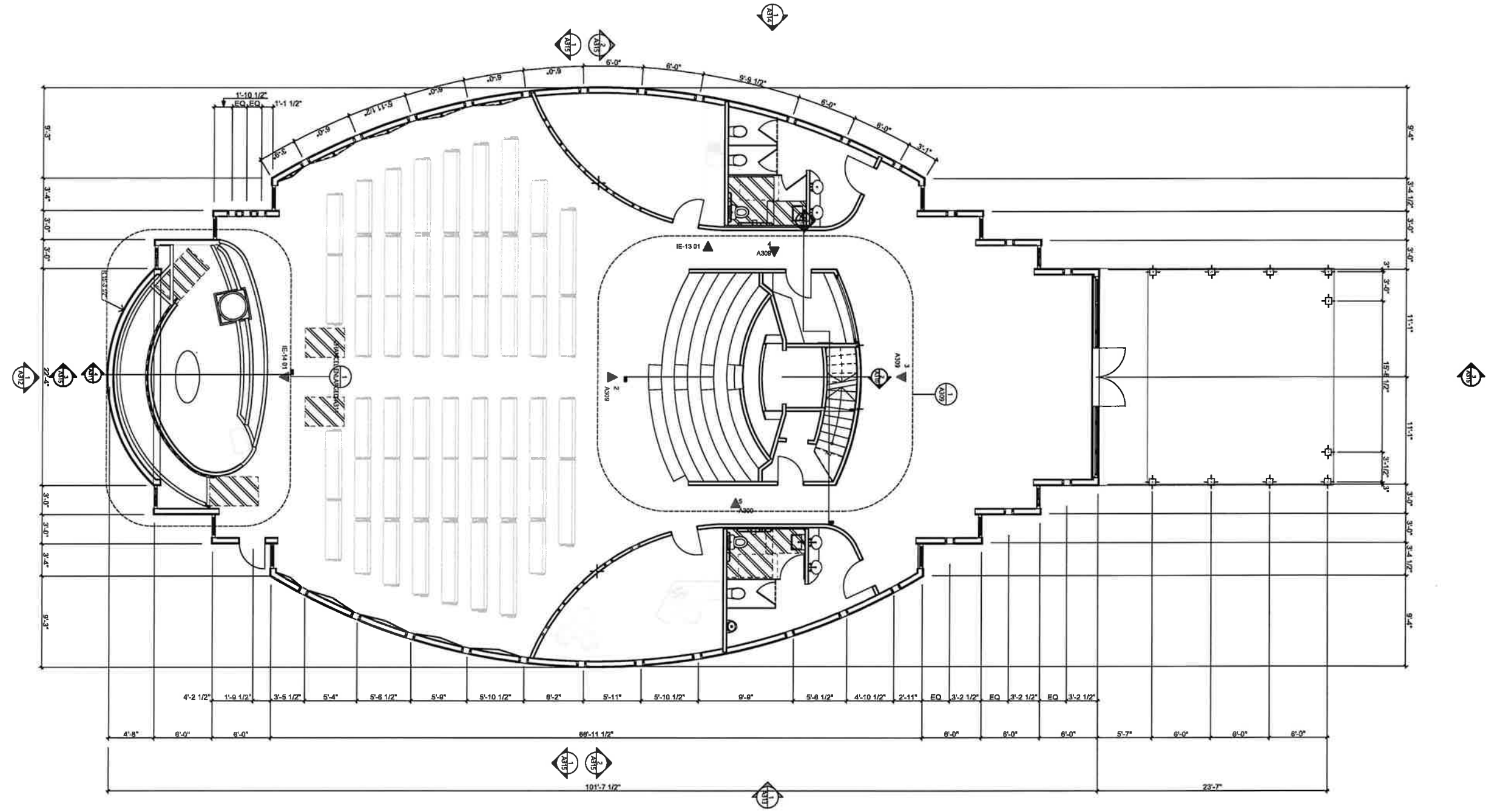
Appendix E

Development Plan



1 BASEMENT PLAN
SCALE: 3/16" = 1'-0"

DATE	ISSUE / REVISION
3.31.14	PRICING / ISSUE
	ISSUE / REVISION
	ISSUE / REVISION
	ISSUE / REVISION
	ISSUE / REVISION
	ISSUE / REVISION
	ISSUE / REVISION
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	ISSUE / REVISION

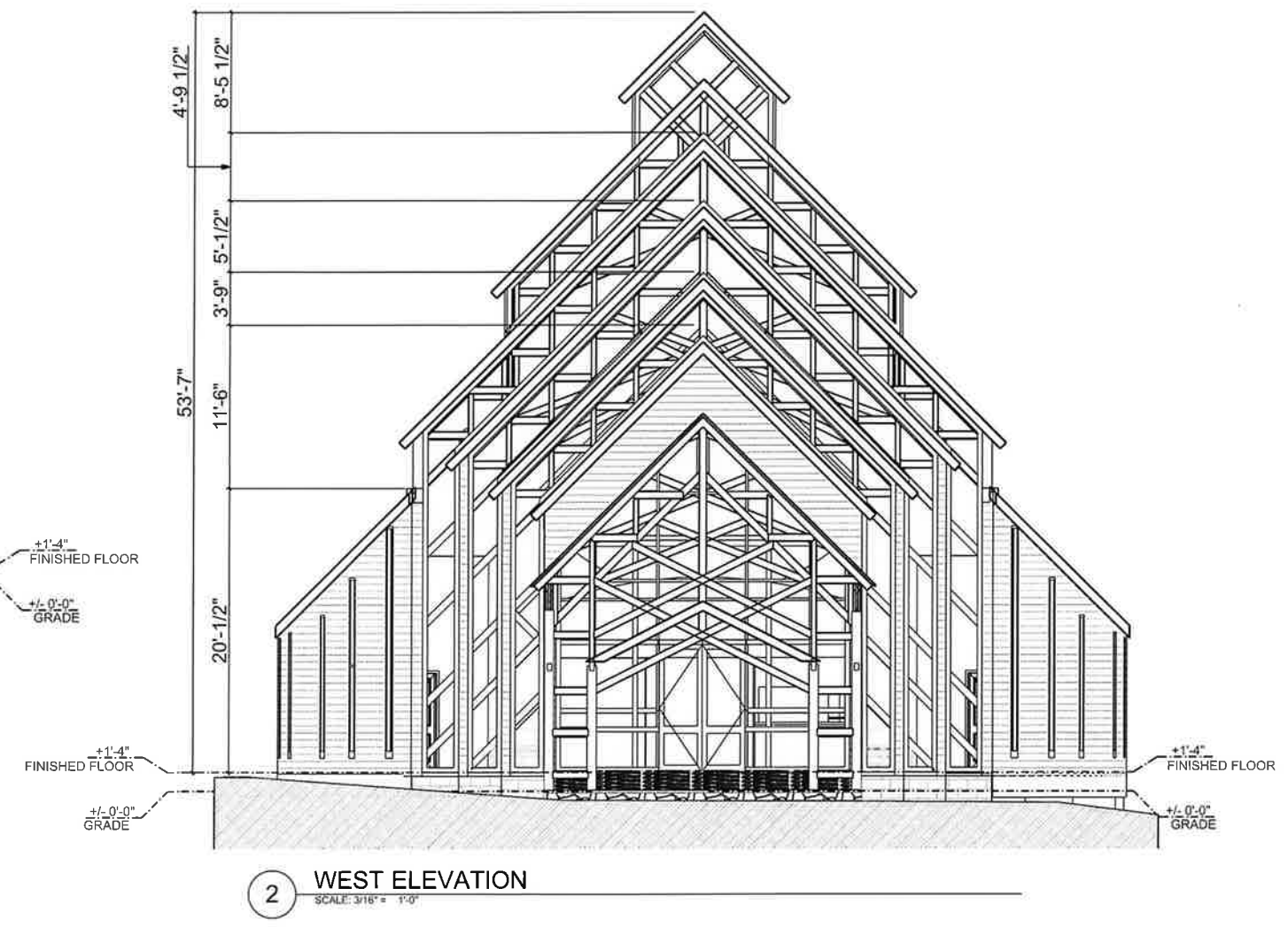
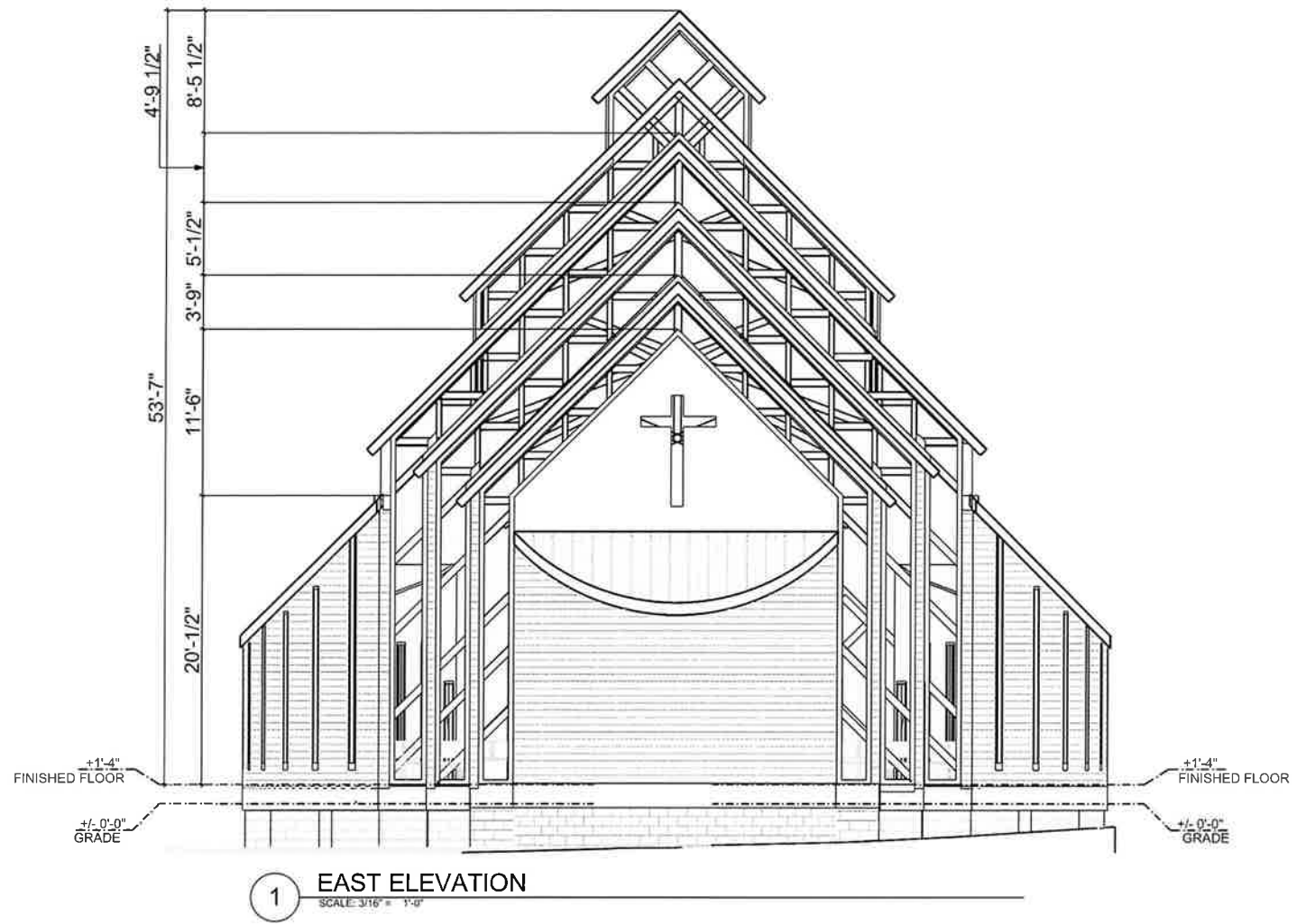


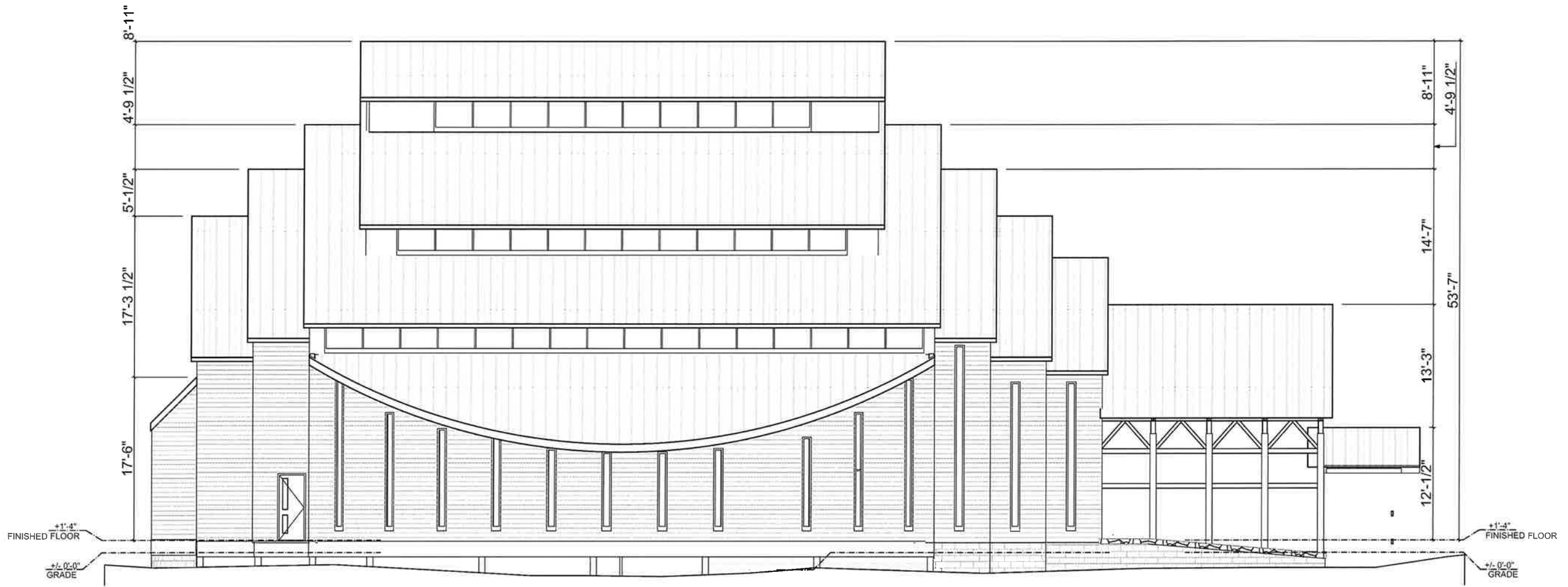
1 FLOOR PLAN
SCALE 3/16" = 1'-0"

DATE	ISSUE / REVISION	DATE	ISSUE / REVISION
3.31.14	PRICING ISSUE		



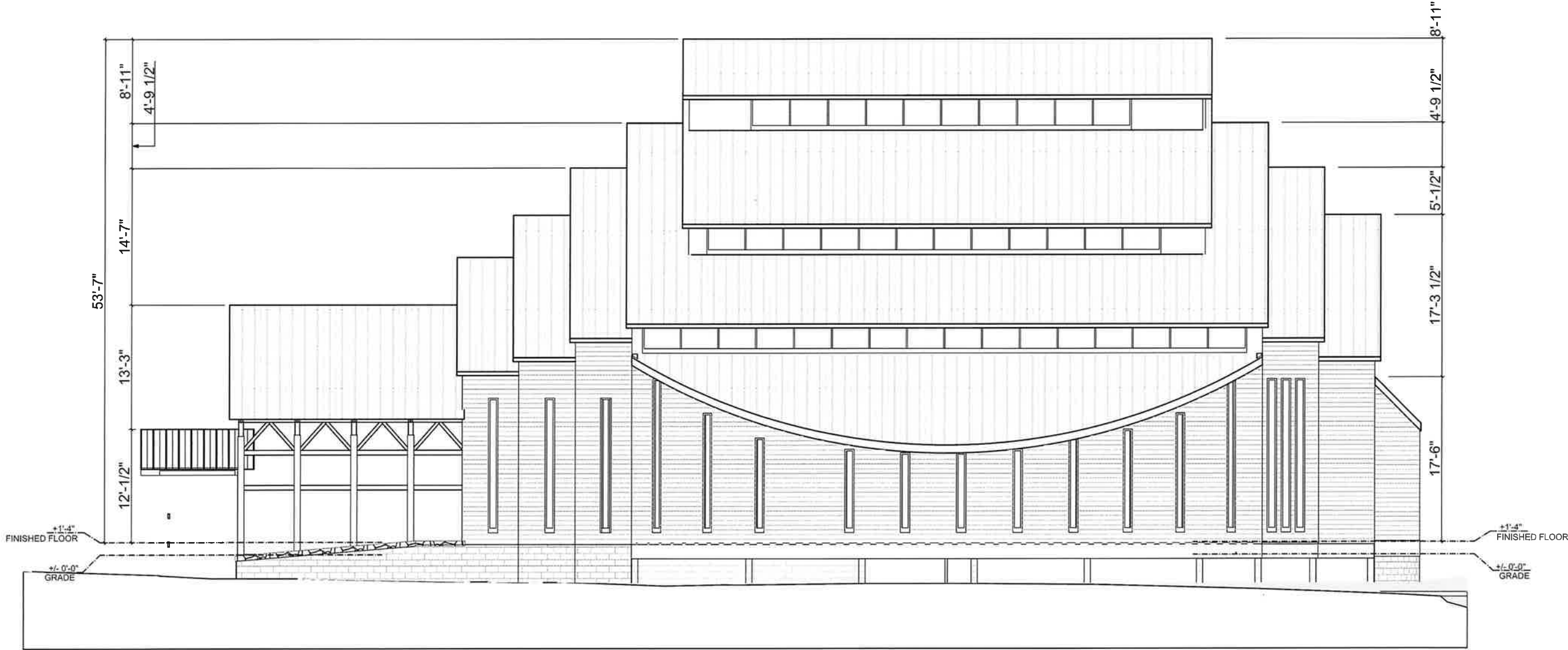
DATE	ISSUE / REVISION
3.31.14	PRICING, ISSUE
	ISSUE / REVISION





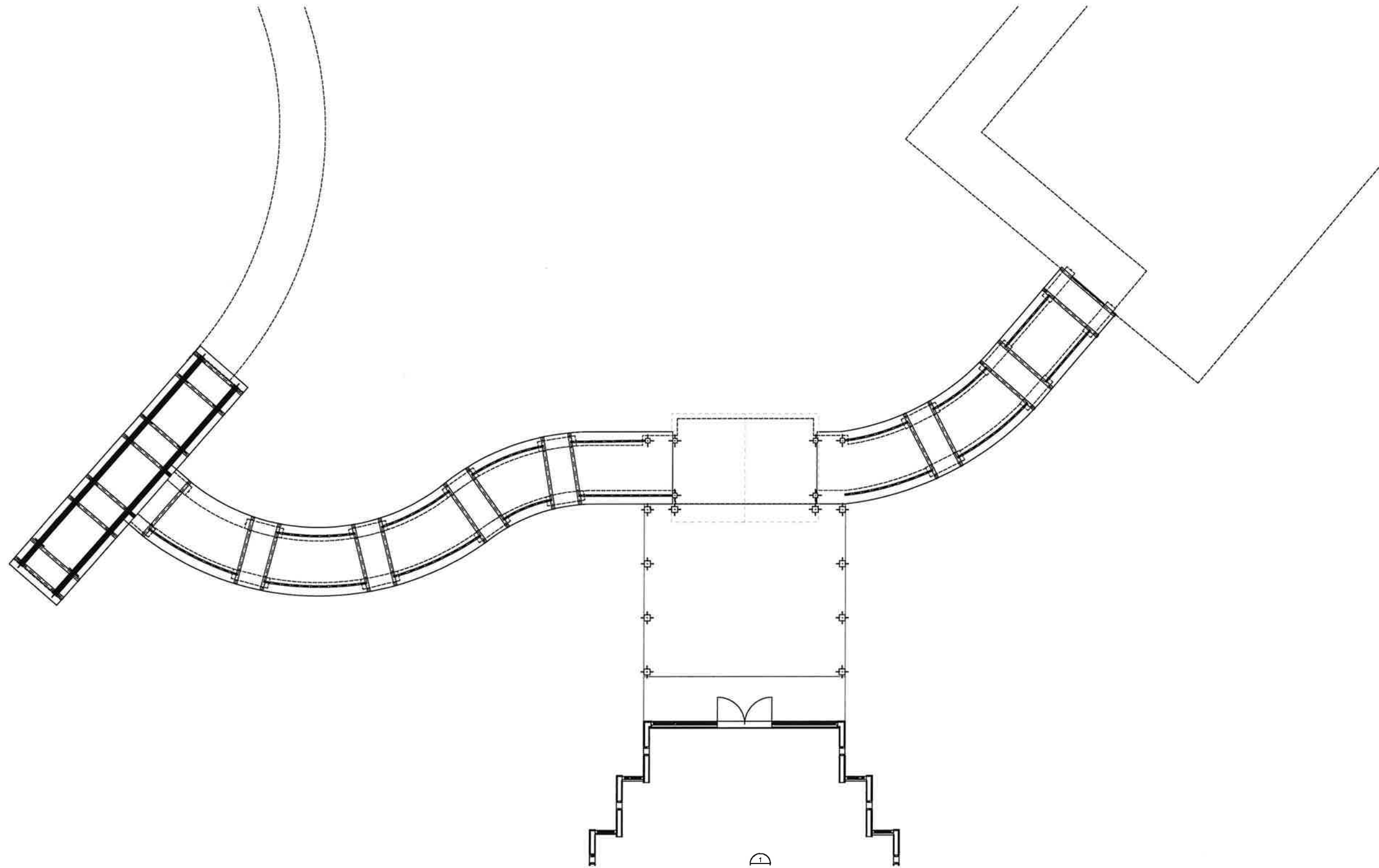
1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"

DATE	ISSUE / REVISION	DATE	ISSUE / REVISION
3.31.14	PRICING / ISSUE		



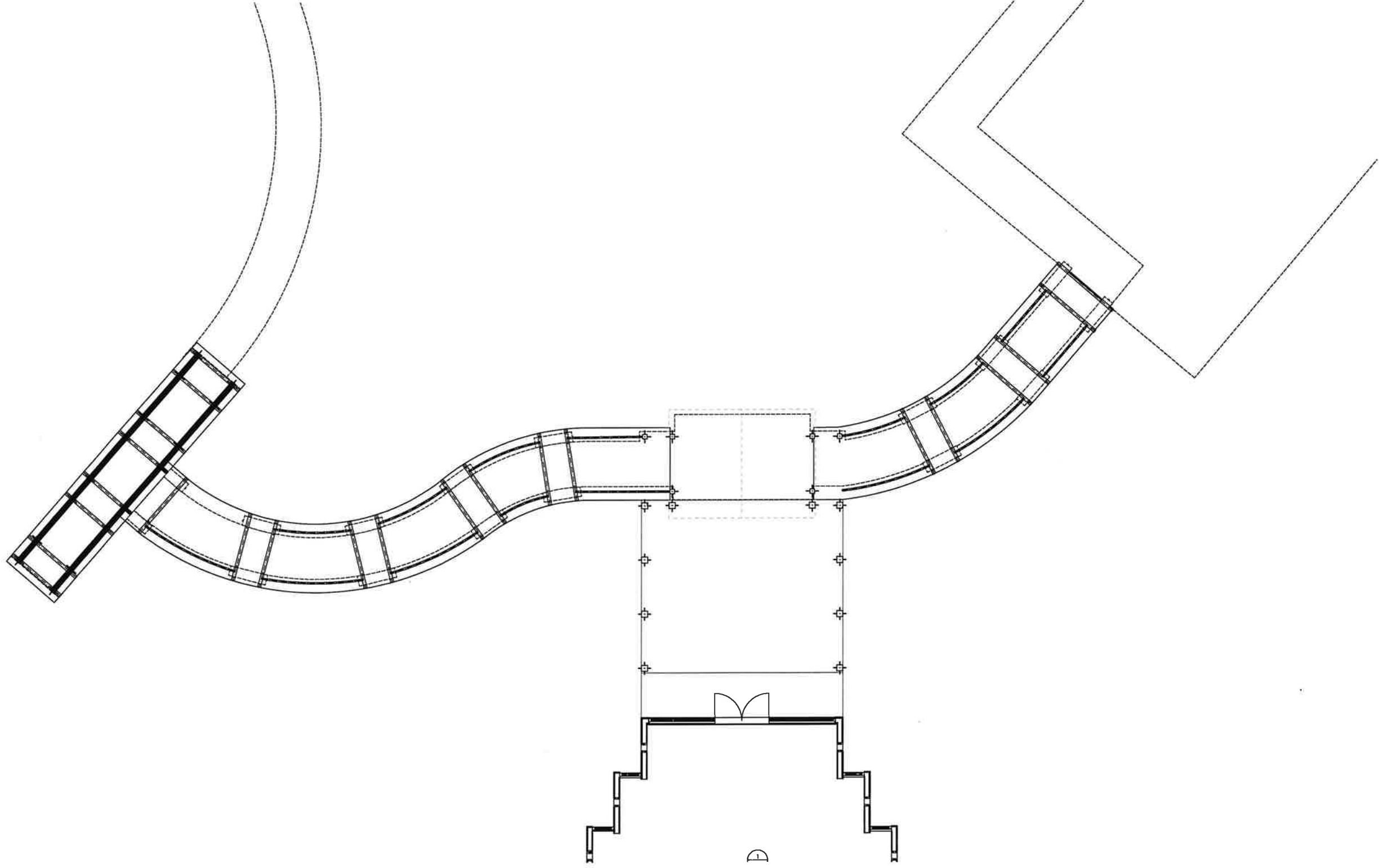
1 SOUTH ELEVATION
SCALE 3/16" = 1'-0"

DATE	ISSUE / REVISION	DATE	ISSUE / REVISION
3.31.14	PRICING / ISSUE		
	ISSUE / REVISION		



1 COVERED WALKING PATH
SCALE: 3/16" = 1'-0"

DATE	ISSUE / REVISION	DATE	ISSUE / REVISION
3.31.14	PRICING ISSUE		
	ISSUE / REVISION		



1 COVERED WALKING PATH

SCALE 3/16" = 1'-0"

ZONA Architecture
 Distinctive Architecture, Planning & Design
 2600 BELFORT ROAD JACKSONVILLE, FL 32216
 TEL: (904) 311-2190 FAX: (904) 311-2190

ZION LUTHERAN SANCTUARY
 1700 NW 34th St, Gainesville, FL 32605 - #Site City, #Site State, #Site Postcode

JOHN ZONA III
 ARCHITECT - FL
 9089

DATE	ISSUE / REVISION	DATE	ISSUE / REVISION
3.31.14	PRICING ISSUE		
	ISSUE / REVISION		

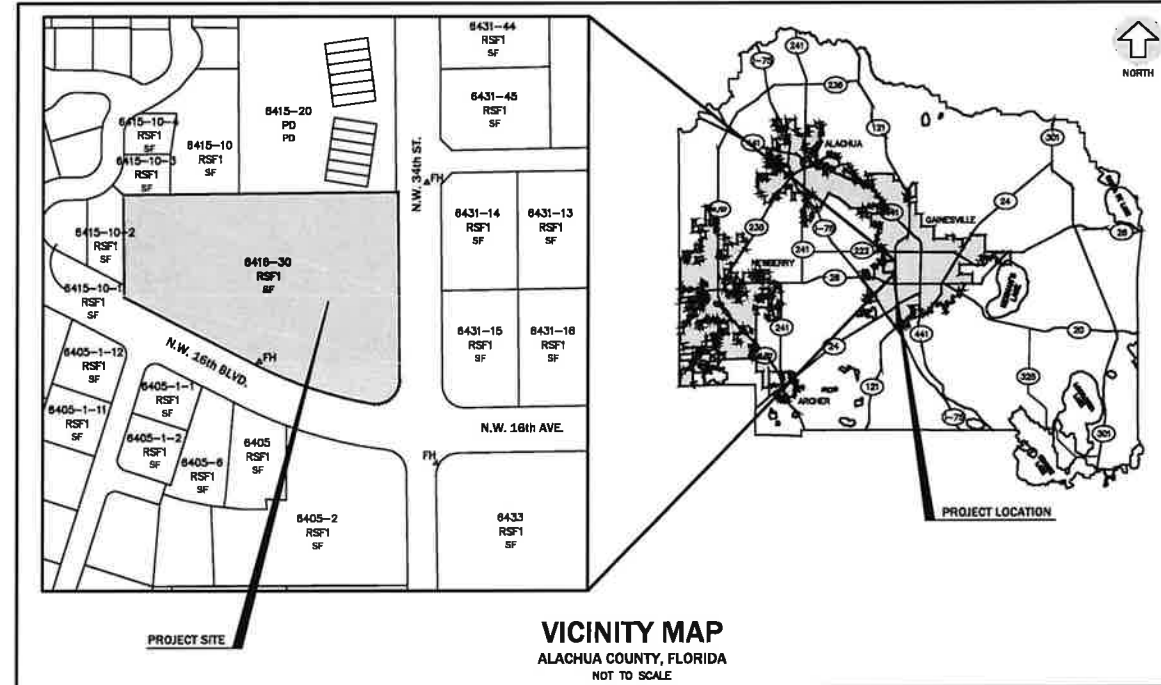
COVERED WALKING PATH

A316

ZION EVANGELICAL LUTHERAN CHURCH

CITY OF GAINESVILLE, FLORIDA

DEVELOPMENT INFORMATION	
1. PROJECT OWNER:	ZION EVANGELICAL LUTHERAN CHURCH 1700 N.W. 34TH STREET GAINESVILLE, FL 32605
2. NAME OF PROJECT:	ZION EVANGELICAL LUTHERAN CHURCH
3. PROJECT DESCRIPTION:	A PROPOSED SANCTUARY WITH ASSOCIATED PAVING, GRADING AND UTILITY IMPROVEMENTS. THE EXISTING BUILDING WILL BE UTILIZED FOR OFFICE, MEETING, AND RECREATIONAL USES.
4. PROJECT ADDRESS:	1700 N.W. 34TH STREET GAINESVILLE, FL 32605
5. TAX PARCEL NUMBER:	08418-030-000
6. SECTION/TOWNSHIP/RANGE:	SECTION 35, TOWNSHIP 9 SOUTH, RANGE 19 EAST
7. ZONING:	SINGLE FAMILY RESIDENTIAL (RSF1)
8. FUTURE LAND DESIGNATION:	SINGLE FAMILY RESIDENTIAL (SF)
9.	A FLOOD PLAIN IS LOCATED ON SITE BUT NOT CONTAINED IN THE PROJECT AREA.
10.	IRRIGATION SYSTEM IS PROVIDED FOR LANDSCAPED AREAS. A RAIN COLLECTION SYSTEM WILL BE UTILIZED FOR IRRIGATION.
11.	THE STORMWATER SYSTEM WILL BE PERMITTED WITH THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT.
12.	THIS PROJECT IS NOT AFFECTED BY THE GATEWAY, GREENWAY, SURFACE WATER, WELL FIELD, HISTORIC OR NATURE PARK DISTRICTS.
13.	THIS SITE IS LOCATED IN ZONE B OF THE TRANSPORTATION MOBILITY PROGRAM AREA (TMPA) AND COMPLES WITH POLICY 10.1.15 TRANSPORTATION MOBILITY ELEMENT.
14.	SIGNAGE SHALL BE PERMITTED UNDER A SEPARATE COVER.
15.	NO SPECIAL FIRE PROTECTION CONCERNS ARE PROPOSED FOR THIS BUILDING. THE BUILDING SHALL COMPLY WITH THE FLORIDA FIRE PREVENTION CODE.
16.	THE PROJECT SITE WILL MEET ALL NPDES CRITERIA DURING AND AFTER CONSTRUCTION.
17.	TRASH AND RECYCLING FACILITIES ARE EXISTING AND WILL BE LOCATED ON SITE.
18.	FIRE HYDRANTS AND STABILIZED SURFACES MUST BE IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES ON SITE. SEE VICINITY MAP (THIS SHEET) FOR FIRE HYDRANT LOCATIONS.
19.	IN-BUILDING PUBLIC SAFETY RADIO ENHANCEMENT SYSTEMS SHALL BE PROVIDED IN ALL BUILDINGS WHERE MINIMUM RADIO SIGNAL STRENGTH FOR FIRE DEPARTMENT COMMUNICATIONS IS NOT ACHIEVED AT A LEVEL DETERMINED BY THE A.H.J.
20.	THE OWNER OR THE OWNER'S AUTHORIZED AGENT SHALL DEVELOP A FIRE SAFETY PROGRAM TO ADDRESS ALL ESSENTIAL FIRE AND LIFE SAFETY REQUIREMENTS FOR THE DURATION OF DEMOLITION, ALTERATION AND CONSTRUCTION PER GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-18).
21.	THE PROPOSED BUILDING SHALL COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE.



LEGEND:

ZONING:
 PD - PLANNED USE DISTRICT
 RSF1 - SINGLE-FAMILY RESIDENTIAL

FUTURE LAND USE:
 PD - PLANNED USE DISTRICT
 SF - SINGLE FAMILY RESIDENTIAL

LEGAL DESCRIPTION

(OFFICIAL RECORDS BOOK 971, PAGE 411)
 COMMENCE AT THE SE CORNER OF THE NE 1/4 OF SECTION 35-T8S-R19E AND RUN N 0°34'22" W ALONG THE EAST LINE OF SAID SECTION AND THE CENTERLINE OF NW 34TH STREET 115.60 FEET, THENCE RUN S 89°25'38" WEST 50 FEET TO THE WEST R/W OF NW 34TH STREET AND THE POINT OF BEGINNING, SAID POINT BEING THE P.C. OF A CURVE CONCAVE TO THE NORTHWEST AND HAVING A RADIUS OF 50 FEET, THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID R/W CURVE 87.9 FEET TO THE P.T. OF SAID CURVE, BEING ON THE NORTH R/W OF NW 18TH AVENUE, AND BEING THE P.C. OF A CURVE CONCAVE TO THE NORTHEAST, AND HAVING A RADIUS OF 904.93 FEET, THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID R/W 268.70 FEET TO THE P.T. OF SAID CURVE, THENCE RUN N 62°49'37" W ALONG SAID R/W 325.21 FEET, THENCE RUN N 0°34'22" WEST 220 FEET, THENCE RUN N 89°25'38" EAST 600 FEET TO THE WEST R/W OF NW 34TH STREET, THENCE RUN S 0°34'22" EAST ALONG SAID R/W 410.51 FEET TO THE POINT OF BEGINNING, BEING AND LYING IN THE NE 1/4 OF SECTION 35-T8S-R19E, GAINESVILLE, ALACHUA COUNTY, FLORIDA.

CITY OF GAINESVILLE STORMWATER MANAGEMENT SUMMARY SHEET

- I. GENERAL**
- A. TAX PARCEL No. 8418-030-000
 - B. PROJECT NAME: ZION EVANGELICAL LUTHERAN CHURCH
 - C. ADDRESS: 1700 NW 34TH STREET
GAINESVILLE, FL

- II. SITE INFORMATION**
- A. TOTAL IMPERVIOUS AREA ON SITE: 35,073 s.f.
 - B. STORMWATER MANAGEMENT BASIN DATA

Basin ID	Retention Volume (cfs)	Retention Volume Surface Water Area (sqft)	Retention At Which Surface Water Discharge Basins from Basin (ft.-mm)
BASIN-1	6,892	5,559	124.10
UNDERGROUND-2	3,030	1,336	127.90
TOTAL	10,002	6,895	

PREPARED BY: SERGIO REYES DATE: 03/08/18
 PETITIONER'S ENGINEER

IMPERVIOUS AREA CALCULATIONS				
#	DESCRIPTION	SQUARE FOOTAGE (S.F.)	ACREAGE (AC.)	PERCENTAGE (%)
1.	TOTAL SITE AREA:	217,184 S.F.	4.99 AC.	100%
2.	EXISTING BUILDING COVERAGE	3,504 S.F.	0.08 AC.	1.61%
3.	EXISTING IMPERVIOUS AREA	13,329 S.F.	0.31 AC.	6.13%
4.	PROPOSED BUILDING COVERAGE	4,581 S.F.	0.10 AC.	2.10%
5.	PROPOSED PAVEMENT AND SIDEWALK AREA:	13,888 S.F.	0.31 AC.	6.3%
6.	TOTAL IMPERVIOUS AREA IN PROJECT AREA:	35,073 S.F.	0.81 AC.	16.15%
7.	PROPOSED GRASS PARKING AREA:	2,880 S.F.	0.06 AC.	1.22%
8.	OPEN AREA IN PROJECT AREA:	182,081 S.F.	4.18 AC.	83.85%

BUILDING INFORMATION	
BUILDING HEIGHT:	54'-6"
SPRINKLERED:	YES
OCCUPANCY CLASS:	A-4
CONSTRUCTION TYPE:	TYPE VB
NUMBER OF STORIES:	1 STORY PLUS PARTIAL SERVICE BASEMENT
BUILDING AREA UNDER ROOF:	5,069 S.F.
BASEMENT:	707 S.F.
1ST FLOOR:	4,521 S.F.
GROSS FLOOR AREA:	5,228 S.F.
BUILDING CODE CAPACITY:	100 PERSONS/ACRE PERMITTED 4.99 ACRES = 499 PERSONS ALLOWED

TRIP GENERATION							
ITE LAND USE 560:							
PROPOSED CHURCH: 5,228 G.S.F. 1700 NW 34TH STREET							
		CHURCH (PER 1000 SF)		TRIP DISTRIBUTION		PROJECT TRIPS	
PERIOD	RATE	SF	TRIPS	ENTER	EXIT	IN	OUT
AM	0.56	5.23	3	82%	36%	2	1
PM	0.55	5.23	3	48%	52%	1	2
WEEKDAY	9.11	5.23	48	50%	50%	24	24
SUNDAY	36.63	5.23	192	50%	50%	96	96

SOURCE: ITE TRIP GENERATION, 8TH EDITION, PAGES 1090-1092

PARKING CALCULATIONS				
#	DESCRIPTION	CRITERIA	REQUIRED	PROVIDED
1.	VEHICULAR PARKING	1 PARKING SPACE PER 4 SEATS OF MAXIMUM SEATING CAPACITY IN PRINCIPLE AREA OF ASSEMBLY	1 SPACE x 200 SEATS = 50 SPACES	32 EXISTING SPACES INCLUDING 2 HANDICAP SPACES, 16 PROPOSED GRASS SPACES, 2 PROPOSED HANDICAP SPACES = 50
2.	BICYCLE PARKING	10% OF REQUIRED NUMBER OF VEHICLE PARKING	50 SPACES x .10 = 5 SPACES	8 SPACES, 3 RACKS

FOR REVIEW ONLY

- GRU NOTES**
- CERTIFICATION BY ENGINEER-OF-RECORD THAT WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS ARE IN ACCORDANCE WITH GRU DESIGN STANDARDS.
 - ELECTRIC DESIGN PROVIDED BY GRU ENERGY DELIVERY.
 - NOTIFY GRU WASTEWATER ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION AT 352-393-1633 IF PROPER NOTIFICATION IS NOT MADE CONTRACTOR SUBJECT TO BE SHUT DOWN.
 - NOTIFY GRU ELECTRIC INSPECTIONS 48 HOURS PRIOR TO CONSTRUCTION AT 352-339-0340 IF PROPER NOTIFICATION IS NOT MADE CONTRACTOR SUBJECT TO BE SHUT DOWN.

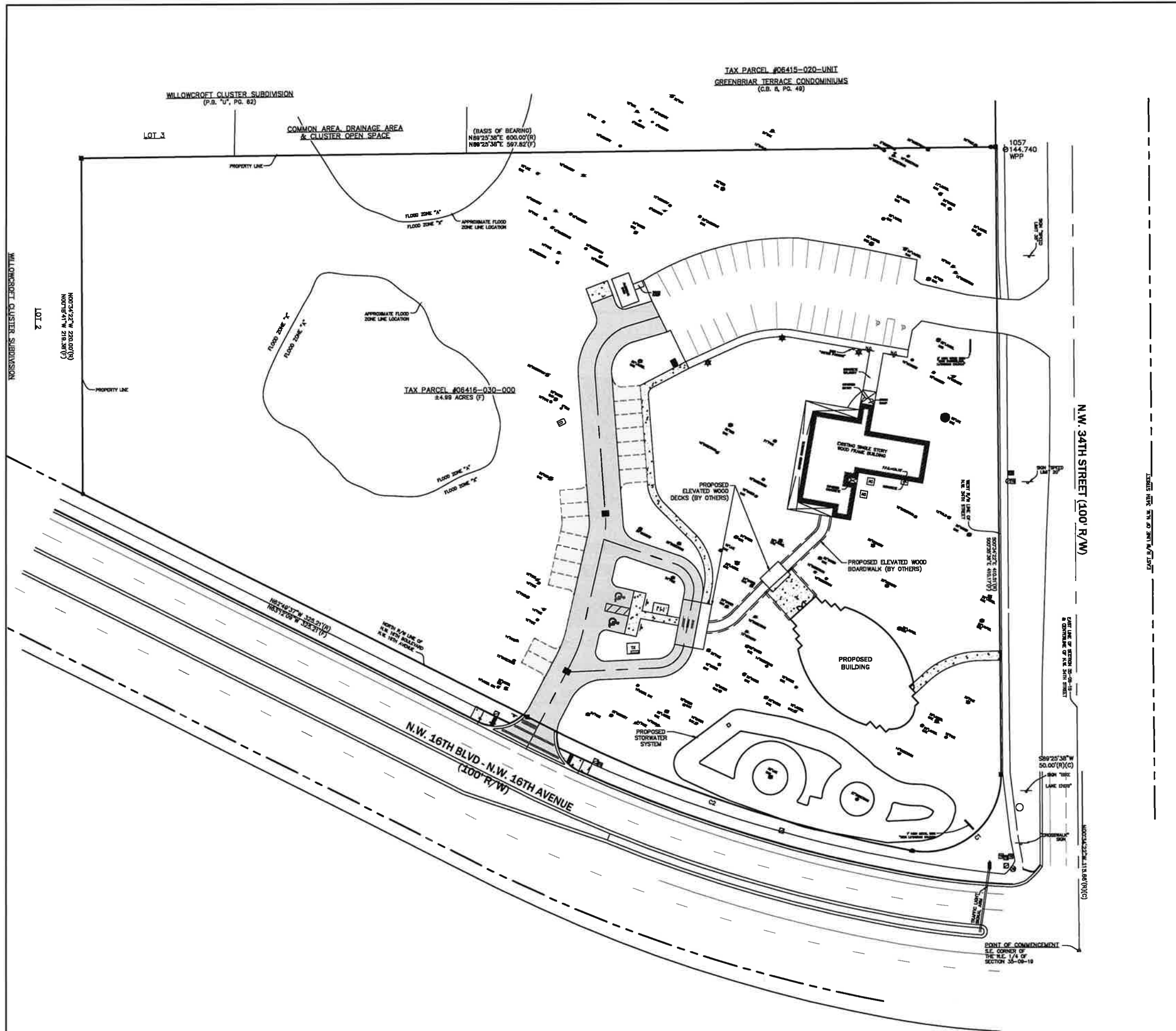
DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
C0.00	COVER SHEET
C0.10	LEGEND, SYMBOLS, & ABBREVIATIONS
C0.20	SITE PLAN
C0.30	DEMOLITION PLAN
C1.00	DIMENSION PLAN
C2.00	PAVING, GRADING, AND DRAINAGE PLAN
C2.10	PAVING, GRADING, AND DRAINAGE DETAILS
C2.20	UNDERGROUND STORMWATER SYSTEM DETAILS
C3.00	STORMWATER POLLUTION PREVENTION PLAN
C4.00	UTILITY PLAN
WORK WITHIN THE COUNTY RIGHT OF WAY	
C5.00	MAINTENANCE OF TRAFFIC PLAN
C5.10	DEMOLITION, DIMENSION, AND GRADING PLAN
PLANS BY OTHERS	
S	BOUNDARY AND TOPOGRAPHIC SURVEY
L	LANDSCAPE PLAN
A	ARCHITECTURAL PLAN
E-1	PHOTOMETRIC PLAN

ZION EVANGELICAL LUTHERAN CHURCH
 CITY OF GAINESVILLE, FLORIDA

COVER SHEET

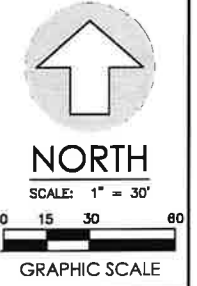
Project: CITY/GRU RESUBMITTAL
 Design: S.B. [Signature]
 Project No: 18-18 [Signature]
 Date: 03/08/18
 Professional Engineer or Reciprocal: SERGIO J. REYES, P.E. [Signature]
 License No. 12345
 State: FLORIDA

Sheet No.: **C0.00**



LEGEND

	LIMITS OF PROPOSED ASPHALT PAVEMENT
	LIMITS OF PROPOSED CONCRETE
	LIMITS OF PROPOSED GRASS PARKING



Project: ZION EVANGELICAL LUTHERAN CHURCH
CITY OF GAINESVILLE, FLORIDA

Sheet Title: OVERALL SITE PLAN

Project phase: CITY/GRU RESUBMITTAL

Designed by: [Signature] **Checked:** TAR

Project No.: 14-184 **Issue Date:** 03/15/18

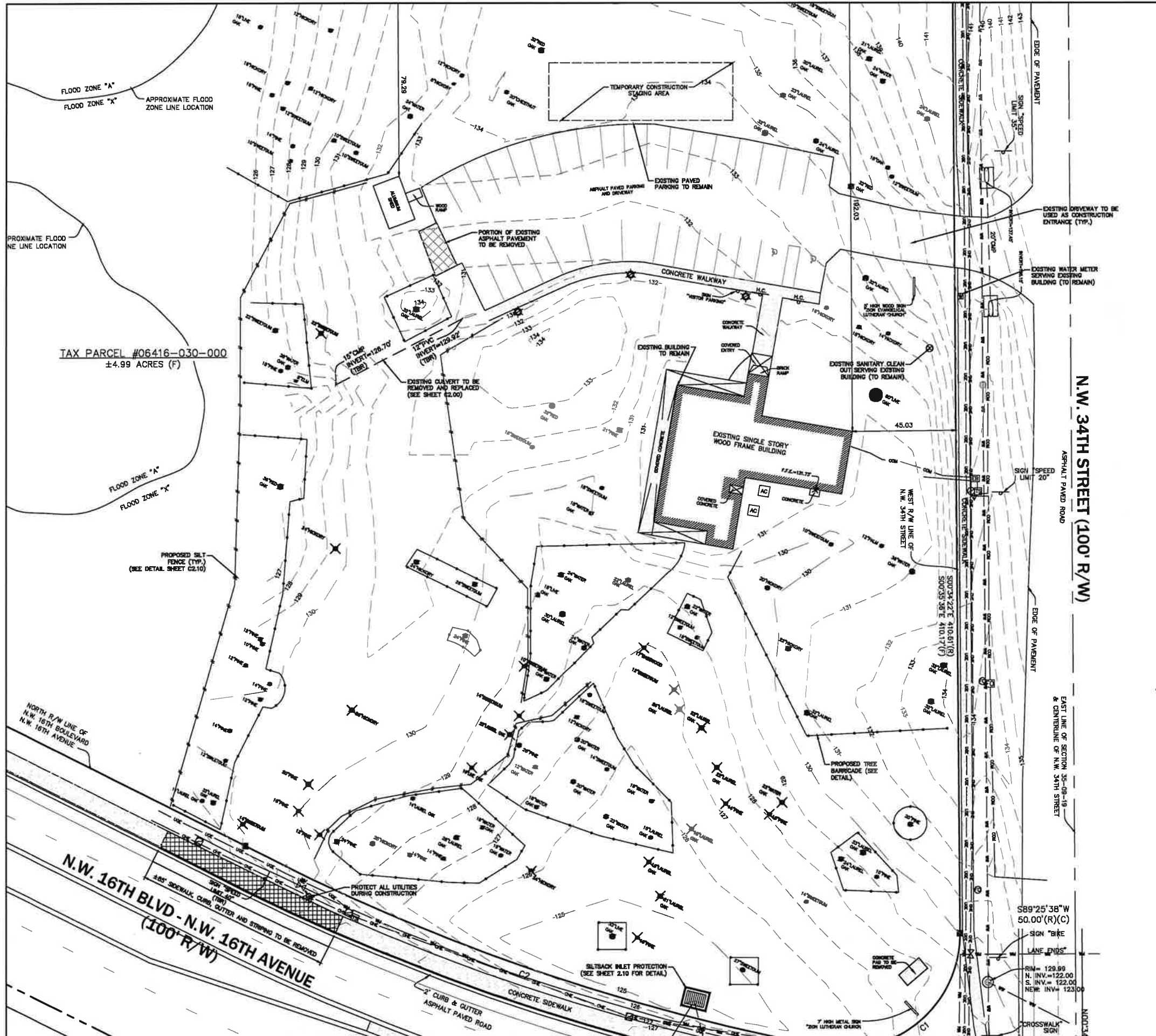
Professional Engineer or Reciprocal: [Signature]

Engineer License No.: 47331L
Engineer Title: Engineer

Sheet No.: C0.20

Comment

No. Date

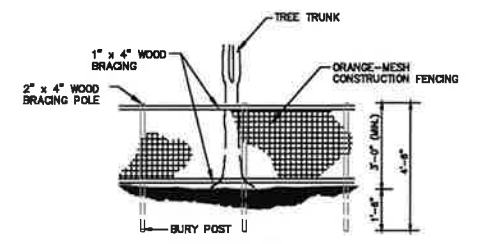


DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, PAVEMENT, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION / PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO DEMOLITION.
4. CONTRACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.
5. CONDUCT SITE DEMOLITION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. CLOSURE OF THESE FACILITIES MAY REQUIRE A MAINTENANCE OF TRAFFIC PLAN PREPARED BY A REGISTERED PROFESSIONAL AT THE CONTRACTOR'S EXPENSE.
6. PROVIDE PROTECTION AS NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS SHOWN IN THE PLANS TO REMAIN.
7. LOCATE EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES IN AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
8. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR THE TERMINATION, CAPPING-OFF AND REMOVAL OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITY SERVICES UNLESS DIRECTED TO OTHERWISE.
9. EROSION CONTROLS ARE TO BE INSTALLED AND INSPECTED PRIOR TO BEGINNING DEMOLITION WORK.
10. IN AREAS WHERE PROPOSED CURBING IS TO BE PLACED, THE ASPHALT PAVEMENT SHALL BE REMOVED TO THE FACE OF CURB TO ALLOW PLACEMENT OF 8" STANDARD CONCRETE CURBING.
11. IN AREAS OF PROPOSED LANDSCAPE AREA THE PAVEMENT, LIMEROCK BASE, AND 12" OF THE STABILIZED SUBGRADE SHALL BE REMOVED. COORDINATE WITH LANDSCAPE ARCHITECT TO DETERMINE IF ADDITIONAL REMOVAL IS REQUIRED TO MAKE AREA SUITABLE FOR LANDSCAPE PURPOSES. THE REMOVED LIMEROCK BASE SHALL NOT BE USED IN THE BASE FOR THE NEW PAVEMENT (PER FOOT SECTION 200), BUT THE REMOVED BASE CAN BE USED IN THE STABILIZATION OF SUBGRADE. SEE GRADING PLAN FOR BACKFILL REQUIREMENTS.
12. ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDER'S SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOO AREAS SHALL BE REMOVED AND 30" OF CLEAN FILL OF PH 5.5 - 6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS OR TREES.
13. SEE DIMENSION PLAN FOR DIMENSIONING OF PROPOSED LANDSCAPE AREAS.
14. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES TO REMAIN AS SHOWN IN THE UTILITY PLAN. ANY EXISTING UTILITIES TO BE REMOVED SHALL BE COORDINATED WITH THE ASSOCIATED UTILITY COMPANY, AND PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
15. SEE ELECTRICAL AND IRRIGATION PLANS FOR COORDINATION OF PAVEMENT CUTS FOR ASSOCIATED CONDUITS.
16. A SEPARATE DEMOLITION PERMIT IS REQUIRED FOR REMOVAL OF BUILDING. CONTACT CITY OF GAINESVILLE BUILDING DEPARTMENT AT 334-5050.
17. CALL NATURE OPERATIONS AT (352) 393-8171 FOR A BARRICADE INSPECTION BEFORE CLEARING AND GRUBBING WORK BEGINS.

LEGEND

- SILT FENCE
- TREE BARRICADE
- (TBR) EXISTING FEATURES TO BE REMOVED (TBR)
- LIMITS OF EXISTING ASPHALT PAVEMENT, CONCRETE AND/OR BUILDING TO BE REMOVED
- ✕20 EXISTING TREE TO BE REMOVED

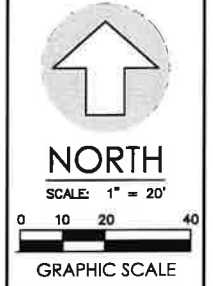


ELEVATION

- NOTES:**
1. TREE BARRICADES WILL BE BUILT BEFORE ANY SITE WORK IS UNDERTAKEN AND WILL REMAIN IN PLACE UNTIL THE LANDSCAPING IS PLANTED.
 2. EACH BARRICADE MUST BE AT LEAST 3 FEET TALL, WITH CORNER POSTS OF 2" x 4" WOOD INSERTED AT LEAST ONE AND A HALF (1-1/2) FEET DEEP. THE TWO SIDES OF SIDE SLATS MUST BE 1" x 4" AND BE MARKED WITH PLASTIC RIBBONS OR MESH FENCING FOR VISIBILITY.
 3. NO GRADING WITHIN FENCING. ANY ROOTS GREATER THAN 1" IN DIAMETER THAT ARE DAMAGED OR EXPOSED SHALL BE CLEANLY CUT AND COVERED OVER WITH SOIL.
 4. NO CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE PERMITTED WITHIN CONSTRUCTION FENCING OR BEYOND THE CONSTRUCTION LIMITS.
 5. THE AREA ENCLOSED MUST BE AT OR OUTSIDE THE DRIPLINE FOR ALL HERITAGE AND CHAMPION TREES AND ALL REGULATED PINE AND PALM TREES, OR EQUAL TO 2/3 OF THE DRIPLINE OF THE TREE CANOPY FOR ALL OTHER REGULATED SPECIES, OR AT THE TREE ROOT PLATE WHERE ALLOWED BY CONSTRUCTION LIMITS.

TREE BARRICADE FENCING DETAIL
NTA

No.	Date	Comment



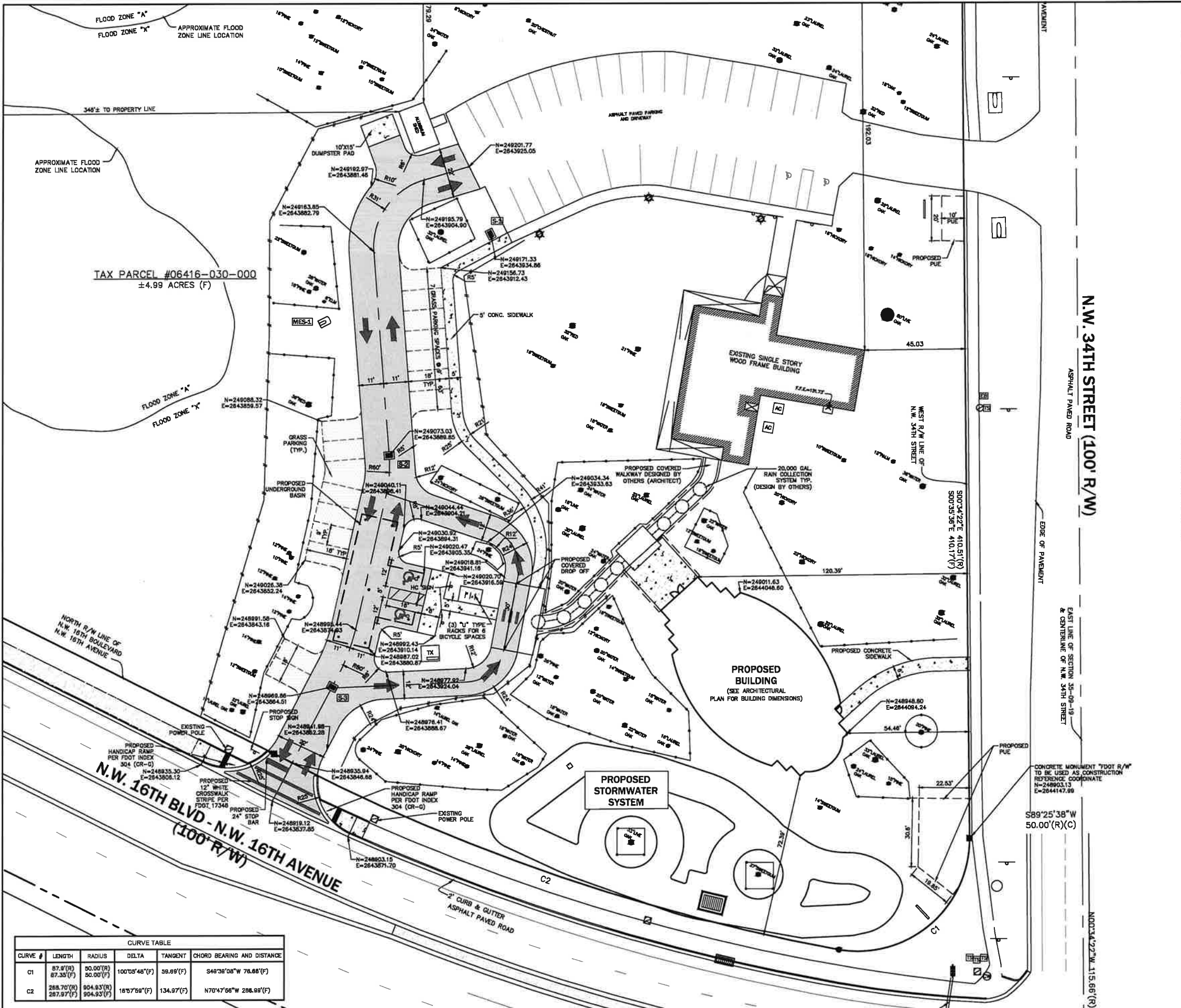
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ZION EVANGELICAL LUTHERAN CHURCH
CITY OF GAINESVILLE, FLORIDA

Project: _____
Sheet Title: _____

Project Name: CITY/GRU RESUBMITTAL
Designed By: [Signature] Date: 10/16/18
Project No: 18-16-18 Project: 10076/18
Professional Engineer or Reciprocal: [Signature]
Stamp: [Professional Engineer Seal]
Scale: AS SHOWN
Date: 10/16/18

Sheet No.: **C0.30**

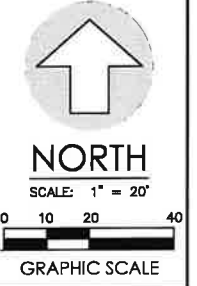


TAX PARCEL #06416-030-000
±4.99 ACRES (F)

N.W. 34TH STREET (100' R/W)
ASPHALT PAVED ROAD

N.W. 16TH BLVD - N.W. 16TH AVENUE
(100' R/W)

- GENERAL NOTES**
1. ALL PARKING LOT DIMENSIONS AND RADI SHOWN ARE MEASURED FROM FACE OF CURB AND/OR THE EDGE OF PAVEMENT IF THERE IS NOT CURB PROPOSED, ALL RADIAL PARKING IS 9' MIN. WIDTH AT NARROWEST POINT.
 2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES AND PROTECTION OF SAME DURING CONSTRUCTION.
 3. ELECTRIC SERVICE TO BE COORDINATED WITH C.R.U. ELECTRIC ENGINEERING DEPARTMENT.
 4. SIDEWALKS WILL BE CONNECTED TO BUILDING ENTRANCE. COORDINATE LOCATIONS WITH ARCHITECT.



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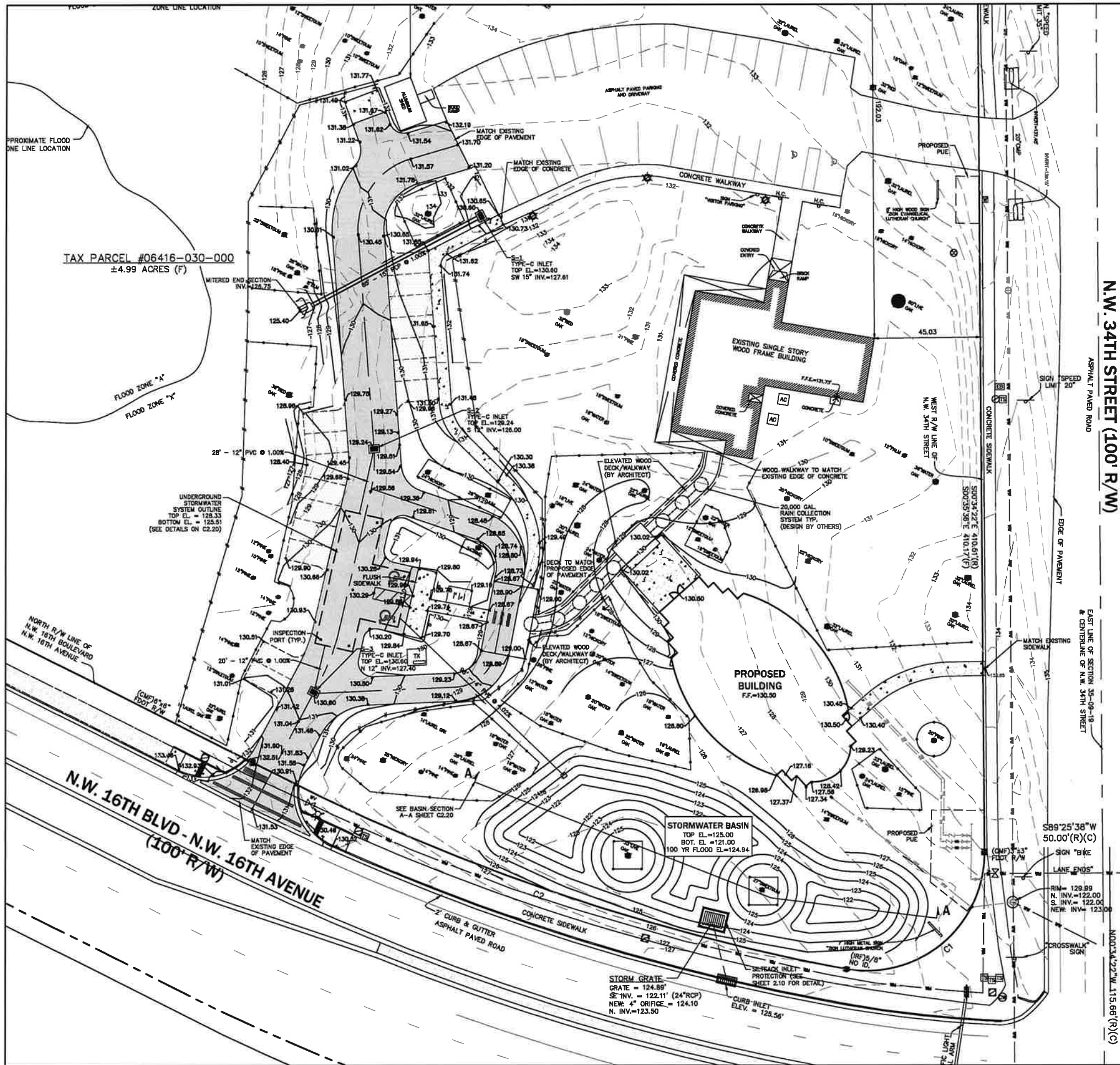
ZION EVANGELICAL LUTHERAN CHURCH
CITY OF GAINESVILLE, FLORIDA

Project: CITY/GRU RESUBMITTAL
Designed by: [Signature]
Project No.: [Number]
Professional Engineer of Record: [Signature]
Scale: AS SHOWN

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	TANGENT	CHORD BEARING AND DISTANCE
C1	87.9'(R) 87.35'(F)	90.00'(R) 50.00'(F)	100°05'48"(F)	39.69'(F)	S48°38'08"W 76.66'(F)
C2	288.70'(R) 287.97'(F)	904.83'(R) 904.93'(F)	18°07'59"(F)	134.97'(F)	N70°47'56"W 288.99'(F)

Sheet No.: **C1.00**



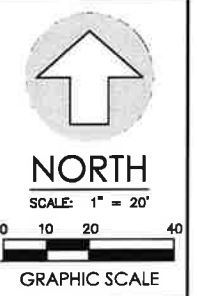
- MAINTENANCE NOTES**
- MAINTENANCE RESPONSIBILITY:**
ZION CHURCH WILL BE THE ENTITY RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING STORMWATER MANAGEMENT SYSTEM.
 - MAINTENANCE PLAN:**
 - BASINS SHALL BE MOWED REGULARLY TO AVOID EXCESSIVE VEGETATIVE GROWTH. MOWING SCHEDULE SHOULD BE MONTHLY DURING WINTER MONTHS AND MORE FREQUENTLY (BIWEEKLY) DURING SUMMER MONTHS.
 - BASIN SHALL BE CLEANED OUT ANNUALLY OF ANY ACCUMULATED SEDIMENTATION BUILDUP. IF THE BASIN ARE SHOWING EXCESSIVE SEDIMENTATION ACCUMULATION AT THE BASIN BOTTOM, THE BASIN BOTTOM SHALL BE SCRAPED CLEAN MORE OFTEN AS THE CONDITION DICTATES.
 - BASIN SIDE SLOPES SHALL BE MAINTAINED WITH A GOOD STAND OF GRASS. SEASONAL GRASSES SHALL BE PLANTED TO AVOID EROSION (WINTER RYE, SUMMER MILLET).
 - BASIN THAT DO NOT DRAINDOWN PROPERLY AND MAINTAIN STANDING WATER FOR AN EXTENDED PERIOD OF TIME MAY REQUIRE REMEDIAL ACTION. THE ENGINEER SHALL BE NOTIFIED TO HELP COORDINATE REMEDIAL ACTION IN THE EVENT THIS OCCURS.
 - THE REQUIRED LANDSCAPING SHALL BE MAINTAINED IN A SOUND CONDITION AT ALL TIMES. ANY DEAD LANDSCAPING MATERIALS SHALL BE REPLACED IMMEDIATELY TO ASSURE PUBLIC SAFETY.

STORMWATER STRUCTURE SCHEDULE

STRUCTURE	STRUCTURE DATA	FDOT INDEX	
S-1	TYPE-C INLET	TOP EL.=130.60 SW 15" INV.=127.81	232
S-2	TYPE-C INLET	TOP EL.=129.24 S 12" INV.=128.00	232
S-3	TYPE-C INLET	TOP EL.=130.60 N 12" INV.=127.40	232

MITERED END SECTION SCHEDULE

MES	PIPE INVERT	FDOT INDEX
MES-1	15" INV.=128.75	272

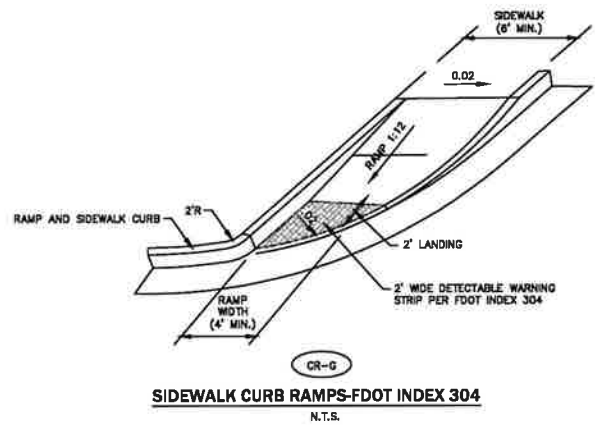


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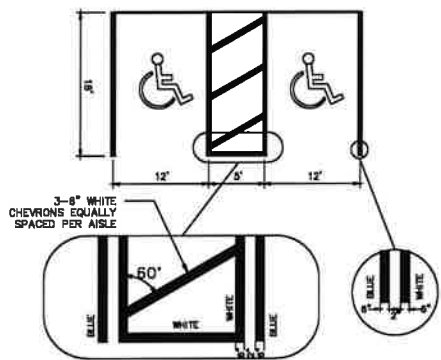
Project: ZION EVANGELICAL LUTHERAN CHURCH
CITY OF GAINESVILLE, FLORIDA
Sheet Title: PAVING, GRADING, AND DRAINAGE PLAN

Project phase: CITY/GRU RESUBMITTAL
Designed by: [Signature]
Project No.: [Number]
Professional Engineer of Record: [Signature]
Sergio T. Mendez, P.E.
Professional Engineer License No. 12071

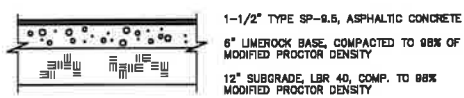
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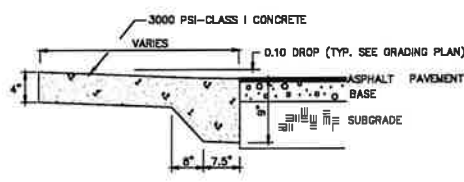
SIDEWALK CURB RAMPS-FDOT INDEX 304
N.T.S.



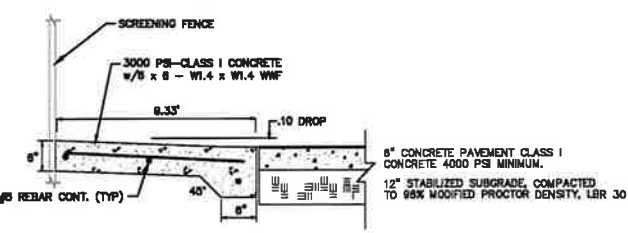
HANDICAP STRIPING DETAIL
N.T.S.



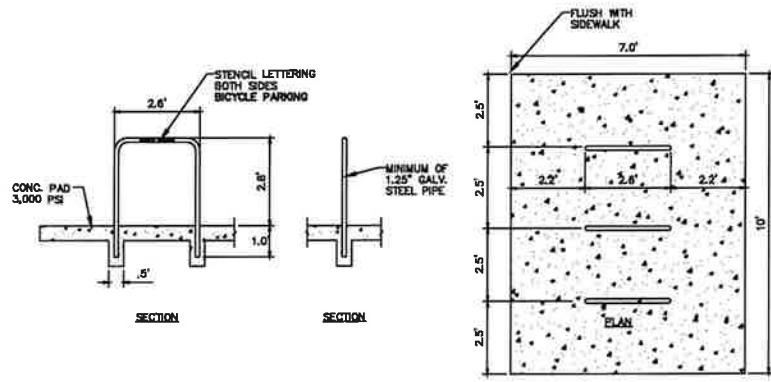
TYPICAL ASPHALT PAVEMENT DETAIL
N.T.S.



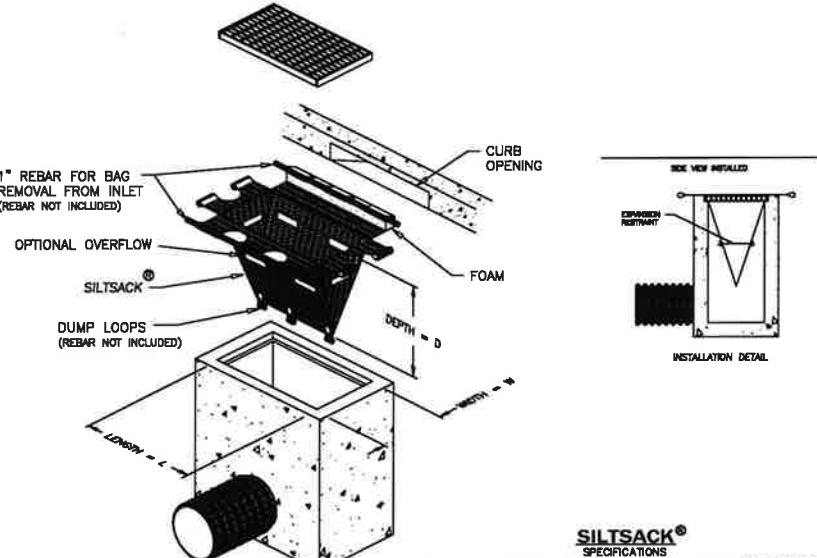
TYPICAL FLUSH SIDEWALK DETAIL
N.T.S.



CONCRETE DUMPSTER PAD DETAIL
N.T.S.



BIKE RACK DETAIL
N.T.S.



SILTSACK®
SPECIFICATIONS
NOTE: THE SILTSACK® WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK®
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	120 LBS
MILLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4633	120 LBS
UV RESISTANCE	ASTM D-4325	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/50 FT
PERMITTIVITY	ASTM D-4491	0.56 SEC -1

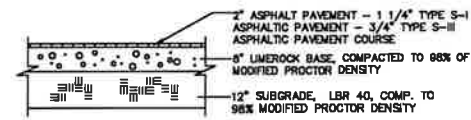
HI-FLOW SILTSACK®
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	285 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	135 LBS
MILLEN BURST	ASTM D-3786	428 PSI
TRAPEZOID TEAR	ASTM D-4633	45 LBS
UV RESISTANCE	ASTM D-4325	80 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/50 FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

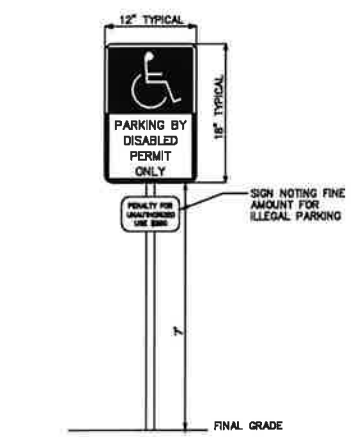
OIL-ABSORBANT SILTSACK®
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK, WITH A WOVEN PILLW INSERT.

DETAIL OF INLET SEDIMENT CONTROL DEVICE WITH CURB DEFLECTOR
N.T.S.

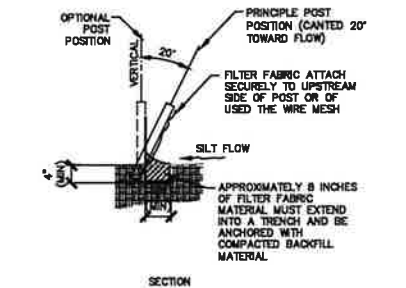
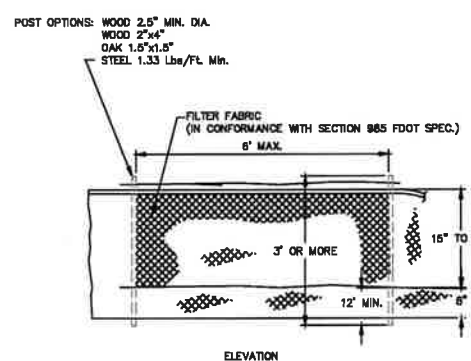


TYPICAL PAVEMENT CROSS DETAIL WITHIN COUNTY RIGHT OF WAY
N.T.S.



HANDICAP PARKING SIGN DETAIL
N.T.S.

- SIGN NOTES:**
- SIGN TO BE MADE OF 0.063" STEEL PAINTED WITH TRAFFIC PAINT
 - HANDICAP SIGN TO BE AS SHOWN ABOVE OR AS REQUIRED BY LOCAL CODE PAINT SIGN BLUE AND WHITE



TYPE III SILT FENCE DETAIL
N.T.S.

PAVING, GRADING AND DRAINAGE SPECIFICATIONS

- GENERAL:** ALL ROADWAY AND DRAINAGE CONSTRUCTION, INCLUDING MATERIALS, CONSTRUCTION TECHNIQUES, AND TECHNICAL STANDARDS, SHALL BE IN ACCORDANCE WITH THE LATEST F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE LATEST F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.
- ALL AREAS OF NEW CONSTRUCTION SHALL BE PREPARED AFTER SITE DEMOLITION. TOP SOIL REMAINING ON SITE MAY BE STOCKPILED FOR FINE GRADING IN LANDSCAPED AREAS. IF SUITABLE, THE CONTRACTOR SHALL FURNISH ALL FILL REQUIRED AND DISPOSE OF ALL EXCESS OR UNSUITABLE MATERIAL OFF-SITE IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
- ALL NEW ASPHALT PAVEMENT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - EARTHWORK:** FILL MATERIALS SHALL CONFORM TO AASHTO SOIL GROUPS A-1, A-3, OR A-2-4 AND SHALL BE PLACED IN 6"-12" LOOSE LIFTS AND COMPACTED TO 98% DENSITY USING MODIFIED PROCTOR METHOD (AASHTO T-180).
 - SUBSOIL EXCAVATION:** WHERE SUBSOIL EXCAVATION IS REQUIRED, UNSUITABLE MATERIALS SHALL BE REMOVED TO A DEPTH OF 18" BELOW THE LIMEROCK BASE AND BACKFILLED WITH CLEAN FILL.
 - STABILIZED SUBGRADE:** ALL STABILIZED MATERIAL SHALL BE TYPE 'C' CONFORMING TO SECTION 614-3 AND PLACED ACCORDING TO SECTION 160 IN ONE 12" MINIMUM COMPACTED LIFT. SUBGRADE SHALL BE STABILIZED TO A MINIMUM LBR VALUES AND DENSITIES AS SHOWN IN THE TYPICAL SECTIONS.
 - BASE COURSE:** ALL MATERIAL SHALL BE LIMEROCK CONFORMING TO SECTION 611 AND PLACED ACCORDING TO SECTION 200 IN ONE 6" MINIMUM COMPACTED LIFT OR DOUBLE COMPACTED LIFT. ALL BASE MATERIAL SHALL BE COMPACTED TO 98% DENSITY BY MODIFIED PROCTOR METHOD (AASHTO T-180). THE PRIME COAT SHALL CONFORM TO SECTION 300.
 - ASPHALTIC CONCRETE:** ALL ASPHALTIC CONCRETE MATERIAL SHALL BE AS PER DESIGN SECTIONS AND SHALL CONFORM TO SECTION 334. ALL ASPHALTIC CONCRETE CONSTRUCTION SHALL CONFORM TO SECTION 330. ASPHALT PAVEMENT SHALL BE SUPERPAVE SP-PG 67-22 ASPHALT BINDER.
- ALL CONCRETE USED FOR CONSTRUCTION OF DRAINAGE STRUCTURES, SIDEWALKS, AND CURBING SHALL BE CLASS I CONFORMING TO SECTION 346.
- REINFORCED CONCRETE PIPE SHALL CONFORM TO SECTION 430.
- ALL PAVEMENT MARKINGS REQUIRED IN THE R/W SHALL BE THERMOPLASTIC AND INCLUDE RAISED PAVEMENT MARKERS, WHERE REQUIRED CONFORMING TO SECTION 711.
- ALL PAVEMENT MARKING, SYMBOLS AND STRIPING WITHIN THE SITE SHALL MEET THE LATEST FLORIDA HANDICAP ACCESSIBILITY CODE. PAVEMENT MARKING SHALL BE 4" BLUE/WHITE (HANDICAP) OR WHITE (REGULAR) AND SHALL CONFORM TO THE LATEST F.D.O.T. AND M.U.T.C.D. STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A GEOTECHNICAL CONSULTANT TO PROVIDE A FIELD INVESTIGATION REPORT DELINEATING RECOMMENDATIONS FOR UNDERCUTTING AND/OR UNDERDRAIN. A COPY OF THIS REPORT SHALL BE FORWARDED TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO UNDERCUTTING OR INSTALLING UNDERDRAIN. UNIT PRICES SHALL BE PROVIDED FOR UNDERDRAIN AND UNDERCUTTING. THE CONTRACTOR SHALL NOT CONSTRUCT BASE COURSE UNTIL THE REPORT IS REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER.
- SOIL TESTING RESULTS SHALL BE PROVIDED FOR THE PAVEMENT CONSTRUCTION. TESTING RESULTS SHALL BE SUBMITTED FOR THE SUBGRADE AND BASE COURSE, IN ACCORDANCE WITH THE DESIGN SECTION. A MINIMUM OF 5 TEST LOCATIONS SHALL BE PROVIDED ON-SITE. THE TESTING REPORT SHALL DENOTE THE TEST LOCATIONS. THE CONTRACTOR SHALL NOT PROCEED TO THE SUBSEQUENT PAVEMENT SECTION UNTIL TESTING RESULTS ARE APPROVED FOR PREVIOUS SECTION. ALL TESTING REQUIRED WITHIN THE COUNTY R/W SHALL BE COORDINATED WITH THE COUNTY INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING COST.
- LANDSCAPING: FINAL GRADING IN OPEN AREAS AND LANDSCAPE ISLANDS SHALL BE COORDINATED WITH THE LANDSCAPE CONTRACTOR AND THE OWNER. THE CONTRACTOR SHALL ALSO COORDINATE THE PLACEMENT OF ANY IRRIGATION AND ELECTRICAL CONDUIT SLEEVES DURING CONSTRUCTION.
- ROOF RUNOFF WILL BE DIRECTED TO THE STORMWATER SYSTEM IF A GUTTER COLLECTION SYSTEM IS NOT SHOWN IN THE PLANS. RUNOFF COLLECTION SHALL BE COORDINATED WITH THE ARCHITECT.
- REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOO AREAS IS THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR. SOIL IN AREAS TO BE LANDSCAPED SHALL BE UNCOMPACTED, SUITABLE FOR ROOT GROWTH WITH APPROPRIATE AMOUNTS OF ORGANIC MATTER, AND OF pH 6.5-8.5.
- TREE BARRICADES MUST REMAIN IN PLACE AND IN THE DIMENSIONS SHOWN ON THE PLAN UNTIL LANDSCAPING BEGINS. SEE NOTE ON SHEET C0.20 AND THE DETAIL ON THE LANDSCAPE PLAN.
- CITY RIGHT-OF-WAY:**
 - THE METHOD AND MANNER OF PERFORMING THE WORK AND THE QUALITIES OF MATERIAL FOR CONSTRUCTION WITHIN THE ROW SHALL CONFORM TO THE REQUIREMENT SPECIFIED BY THE PUBLIC WORKS DEPARTMENT.
 - NO WORK SHALL BE DONE NOR MATERIALS USED IN THE ROW, WITHOUT INSPECTION BY THE PUBLIC WORKS DEPARTMENT (334-5070), AND THE CONTRACTOR/DEVELOPER SHALL FURNISH THE DEPARTMENT WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER THE WORK PERFORMED AND MATERIALS USED ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS.
 - THE PUBLIC WORKS DEPARTMENT RESERVES THE RIGHT TO MODIFY THE PROPOSED WORK WITHIN THE ROW TO ENSURE COMPATIBILITY WITH EXISTING IMPROVEMENTS. SUCH MODIFICATION COSTS SHALL BE BORNE BY THE DEVELOPER.
- COUNTY RIGHT-OF-WAY:**
 - THE METHOD AND MANNER OF PERFORMING THE WORK AND THE QUALITIES OF MATERIAL FOR CONSTRUCTION WITHIN THE COUNTY ROW SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT.
 - NO WORK SHALL BE DONE NOR MATERIALS USED IN THE ROW, WITHOUT INSPECTION BY THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT (462-2147), AND THE CONTRACTOR/DEVELOPER SHALL FURNISH THE DEPARTMENT WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER THE WORK PERFORMED AND MATERIALS USED ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS.
- STATE RIGHT-OF-WAY:**
 - THE METHOD AND MANNER OF PERFORMING THE WORK AND THE QUALITIES OF MATERIAL FOR CONSTRUCTION WITHIN THE ROW SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE PUBLIC WORKS DEPARTMENT AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
 - NO WORK SHALL BE DONE NOR MATERIALS USED IN THE CITY AND STATE ROW, WITHOUT INSPECTION BY THE PUBLIC WORKS DEPARTMENT (334-5070), AND FDOT RESPECTIVELY, AND THE CONTRACTOR/DEVELOPER SHALL FURNISH EACH DEPARTMENT WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER THE WORK PERFORMED AND MATERIALS USED ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS.



ZION EVANGELICAL LUTHERAN CHURCH
CITY OF GAINESVILLE, FLORIDA

Project: _____
Sheet Title: _____

Project phone: _____
City/GRU RESUBMITAL
Designed by: _____
Project No: _____
Professional Engineer or Reciprocal:
Sergio J. Morales, P.E. No. 47311
Engineer/Architect/Professional No.

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MAY BE MODIFIED AND UPDATED DURING CONSTRUCTION AS A RESULT OF WEATHER, UNPREDICTABLE EVENTS AND SITE INSPECTIONS.

THIS DOCUMENT WAS PREPARED IN ORDER TO BE IN COMPLIANCE WITH CHAPTER 62-821.300 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGES OF STORMWATER FROM CONSTRUCTION SITES. THIS DOCUMENT ESTABLISHES A STORMWATER POLLUTION PREVENTION PLAN FOR THE SITE AND IS ORGANIZED TO CORRESPOND TO PART V OF DEP DOCUMENT No. 62-821.300 (4) (A) FDEP FORM 62-281.300 (4) (B) IS TO BE SUBMITTED IN CONJUNCTION WITH THIS DOCUMENT.

I. PROJECT INFORMATION:

PROJECT: ZION EVANGELICAL LUTHERAN CHURCH
COUNTY: FLORIDA
SECTION/TOWNSHIP/RANGE: S 35 T 9 SOUTH, R 19 EAST
COUNTY PARCEL NO.: 06418-030-000
LATITUDE AND LONGITUDE:
STREET ADDRESS: 1700 NW 34TH ST
PROJECT AREA: 4.99 AC
APPROXIMATE AREA TO BE DISTURBED BY CONSTRUCTION: 2.14 AC

II. SITE DESCRIPTION:

- 1. THE PROPOSED DEVELOPMENT WILL CONSIST OF THE CONSTRUCTION OF A CHURCH WITH ASSOCIATED PAVING, DRAINAGE AND UTILITY IMPROVEMENTS.
2. THE SOIL CONDITIONS WERE INVESTIGATED AND SUMMARIZED IN THE SOILS REPORT PREPARED BY UNIVERSAL ENGINEERING SCIENCES...
3. EXISTING AND FUTURE DRAINAGE PATTERNS ARE SHOWN IN THE DRAINAGE DESIGN NOTES FOR PRE-DEVELOPMENT CONDITIONS AND POST-DEVELOPMENT CONDITIONS...
4. SEQUENCE OF CONSTRUCTION:
A. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION BARRICADES SHALL BE INSTALLED...
B. THE CONSTRUCTION ENTRANCE(S) WILL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF SITE TRACKING OF SEDIMENTS.
C. THE SITE SHALL BE CLEARED AND GRUBBED OF UNDESIRABLE VEGETATION.
D. THE UNDERGROUND UTILITIES AND STORMWATER PIPING WILL BE INSTALLED AND CONNECTED TO EXISTING STRUCTURES.
E. THE SITE WILL BE ROUGHLY GRADED, IF SUITABLE...
F. ROADWAYS AND PARKING LOTS WILL BE COMPACTED AND A LIMEROCK BASE WILL BE ESTABLISHED FOLLOWED BY AN OVERLAY OF ASPHALTIC CONCRETE...
G. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.
H. (EXISTING) STORMWATER BASIN(S) WILL BE SCRAPPED CLEAN OF ACCUMULATED SEDIMENT.
I. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSSED AND/OR LANDSCAPED...

III. CONTROLS:

- THE CONTROLS SHALL BE IMPLEMENTED AND MAINTAINED DURING THE ENTIRE CONSTRUCTION OF THE PROJECT...
1. THE CONSTRUCTION ACCESS SHALL BE STABILIZED WITH GRAVEL AND TEMPORARY VEGETATION TO PREVENT SILT LEAVING THE SITE.
2. TREE BARRICADES SHALL BE IMPLEMENTED BEFORE CLEARING AND GRUBBING OF ANY OF THE WORK AREAS.
3. BEFORE CLEARING, SILT FENCES SHALL BE INSTALLED AROUND THE PERIMETER OF THE CONSTRUCTION AND AROUND THE WETLAND(S) AND/OR BASIN(S) AS SHOWN IN THE PLANS...
4. AFTER CLEARING BUT BEFORE EXCAVATION AND GRADING, TEMPORARY BERMS AND SWALES SHALL BE CONSTRUCTED AS REQUIRED TO DIVERT THE FLOW INTO THE CORRESPONDING STORMWATER BASIN.
5. THE BASIN (ALL BASIN) AREA(S) SHALL BE PROTECTED AS INDICATED ON THE PLANS.
6. THE STORMWATER BASIN(S) SHALL BE ROUGH GRADED TO WITHIN 8" OF THE DESIGNED BASIN BOTTOM...
7. DURING CONSTRUCTION OF PAVING AND BUILDINGS, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS REQUIRED.
8. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE SHALL BE COMPLETELY LANDSCAPED AND/OR GRASSSED...

IV. EROSION AND SEDIMENTATION CONTROLS:

STABILIZATION PRACTICES:

- 1. ALL ENTRANCES TO THE SITE SHALL BE STABILIZED BEFORE CONSTRUCTION AND FURTHER DISTURBANCE BEGINS...
2. TREE BARRICADES SHALL BE INSTALLED AROUND THE TREES AS SHOWN IN THE DETAIL PLAN TO PROTECT THE EXISTING VEGETATION.
3. MULCH SHALL BE PLACED IN THE AREAS REQUIRED TO PREVENT EROSION FROM STORMWATER RUNOFF...
4. SEEDING SHALL BE STARTED AFTER GRADING HAS BEEN FINISHED ON THE AREAS SHOWN IN THE PLANS...
5. SOD SHALL BE INSTALLED IN THE AREAS SHOWN IN THE PLANS...

SEDIMENTATION PRACTICES:

- 1. SILT FENCES SHALL BE INSTALLED IN THE AREAS SHOWN IN THE PLANS AND AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA...
2. DIVERSION SWALES, IF REQUIRED, SHALL BE CONSTRUCTED BEFORE MAJOR LAND DISTURBANCE...
3. INLETS SHOULD BE TEMPORARILY PROTECTED TO PREVENT SEDIMENT ENTERING THE INLET...
4. OUTFALL STRUCTURES SHALL HAVE SILT FENCES TO PREVENT SILT FROM ENTERING THE STORMWATER BASINS...

V. STORMWATER MANAGEMENT:

- 1. THE PROPOSED PROJECT OBTAINED AN ENVIRONMENTAL RESOURCE PERMIT FROM ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SURWMD) FOR THE CONSTRUCTION AND OPERATION OF A STORMWATER TREATMENT SYSTEM AND CONTROLS...
2. TO TREAT AND CONTROL THE STORMWATER PRODUCED BY THE PROPOSED DEVELOPMENT, THE PROJECT REQUIRES THE INSTALLATION AND CONSTRUCTION OF THE FOLLOWING BMP'S...

VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS:

- 1. WASTE DISPOSAL: NO SOLID MATERIALS, INCLUDING CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO SURFACE WATERS...
2. THE USE OF GRAVEL AND CONTINUING SWEEPING ACTIVITIES AT THE ENTRANCE OF THE SITE WILL CONTROL THE TRACKING OF SEDIMENT AND DUST...
3. THE PROPOSED DEVELOPMENT WILL PROVIDE WATER AND SEWER SYSTEM BY CONNECTING INTO THE CENTRAL MUNICIPAL SYSTEM OF GAINESVILLE REGIONAL UTILITIES...
4. ANY APPLICATION OF FERTILIZERS AND PESTICIDES NECESSARY TO ESTABLISH AND MAINTENANCE OF VEGETATION DURING CONSTRUCTION...
5. ANY TOXIC MATERIALS REQUIRED DURING CONSTRUCTION SHALL BE PROPERLY STORED, DISPOSED OF AND CONTRACTOR AND/OR OWNER SHALL PROVIDE THE APPROPRIATE PERMITS FROM THE LOCAL OR STATE AGENCIES.

VII. APPROVED STATE OR LOCAL PLANS:

- 1. ALL THE SEDIMENT AND EROSION CONTROLS THAT ARE LISTED IN THE SITE PLAN AS APPROVED BY THE SURWMD ARE INCLUDED IN THIS STORMWATER POLLUTION PREVENTION PLAN...
2. THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED IF REQUIRED BY ANY LOCAL OR STATE AGENCY OR AS REQUIRED BY UNPREDICTABLE CONDITIONS...

VIII. MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE...

IN ADDITION TO THE ITEMS MENTIONED IN THE PREVIOUS SECTIONS, THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED, IN THE EVENT THAT THE BASINS DO NOT PERFORM PROPERLY OR IF A SINGLEHOLE DEVELOPS...

- 1. MAINTENANCE WOULD BE DIVIDED IN ROUTINE MAINTENANCE AND REPAIR MAINTENANCE...
2. ROUTINE MAINTENANCE REQUIREMENTS SHOULD BE INCLUDED IN THE INSPECTOR CHECKLIST...
3. SIDE ENTRANCES: MAINTENANCE SHALL INCLUDE REPLACEMENT OF GRAVEL AND CLEANING THE SOIL THAT IS TRACKED OFFSITE...
4. TREE BARRICADES: MAINTENANCE SHALL INCLUDE INSPECTION OF MESH AND POSTS...
5. SILT FENCES: MAINTENANCE SHALL INCLUDE SEDIMENT REMOVAL AND INSPECTION TO ENSURE PROPER ANCHORING...
6. DIVERSION SWALES: MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY RAINFALL EVENT...
7. TEMPORARY BERMS: MAINTENANCE SHALL INCLUDE REMOVAL OF DEBRIS, TRASH SEDIMENT AND LEAVES...
8. MULCHING: ROUTINE MAINTENANCE SHALL INCLUDE REPLACEMENT PERIODICALLY...
9. SEEDING: ROUTINE MAINTENANCE SHALL INCLUDE RESEEDING OF AREAS THAT FAILED TO ESTABLISH...
10. SODDING: ROUTINE MAINTENANCE SHALL INCLUDE WATERING AND MOWING...
11. INLETS: ROUTINE MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY STORM EVENT...
12. OUTFALL STRUCTURES: ROUTINE MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY STORM EVENT...
13. DRY RETENTION BASINS: ROUTINE MAINTENANCE SHALL INCLUDE MONITORING FOR SEDIMENT ACCUMULATION...
14. WET DETENTION BASINS: ROUTINE MAINTENANCE SHALL INCLUDE MONITORING FOR SEDIMENT ACCUMULATION...

IX. INSPECTIONS:

- 1. THE OWNER AND/OR CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT ALL POINTS OF POTENTIAL DISCHARGE...
2. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS IN EXCESS OF 0.50 INCHES.
3. ALL DISTURBED AREAS AND AREAS USED FOR MATERIALS STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM...
4. REPAIR OR MAINTENANCE NEEDED TO ASSURE PROPER OPERATION OF THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE DONE IN A TIMELY MANNER...
5. A REPORT SHALL BE KEPT OF EACH INSPECTION FOR THREE YEARS AFTER FINAL STABILIZATION AND SHALL INCLUDE THE DATES OF EACH INSPECTION...

X. NON-STORMWATER DISCHARGES:

- 1. THE FOLLOWING NON-STORMWATER DISCHARGES MIGHT BE COMBINED WITH STORMWATER AND WOULD BE AUTHORIZED AS PART OF THIS PERMIT...
2. DISCHARGES FROM DEWATERING ACTIVITIES ASSOCIATED WITH SITE CONSTRUCTION ARE NOT AUTHORIZED AND REQUIRED CONSTRUCTION OF TEMPORARY SEDIMENTATION BASINS AND USE OF APPROPRIATE FLOCCULATING AGENTS...

XI. CONTRACTORS:

- 1. ALL CONTRACTORS AND/OR SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING THE PLAN SHALL SIGN THE CERTIFICATION STATEMENT BEFORE STARTING CONSTRUCTION ACTIVITIES OF THE PROJECT...

CERTIFICATION STATEMENT

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER."

Contracting Firm: ADDRESS: CITY, STATE, ZIP CODE: TELEPHONE: FAX: PROJECT NAME: ZION EVANGELICAL LUTHERAN CHURCH PROJECT ADDRESS: 1700 N.W. 34TH STREET GAINESVILLE, FLORIDA 32605 NAME: SERGIO REYES SIGNATURE: DATE:

STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

PROJECT NAME: ZION EVANGELICAL LUTHERAN CHURCH FDEP NPDES STORMWATER IDENTIFICATION NO.: FLR10

OWNER: ZION EVANGELICAL LUTHERAN CHURCH CONTRACTOR:

CONSTRUCTION MANAGER:

Table with 8 columns: Date of Inspection, Location, Rain data, Type of control (see below), Date installed / modified, Current Condition (see below), Observations or Corrective Action / Other Remarks, Inspected By.

CONDITION CODE: G = Good M = Marginal, needs maintenance or replacement soon O = Other C = Needs to be cleaned P = Poor, needs immediate maintenance or replacement

CONTROL TYPE CODES

Table with 4 columns of control type codes: 1. Silt Fence, 2. Earth dikes, 3. Structural diversion, 4. Swale, 5. Sediment Trap, 6. Check dam, 7. Subsurface drain, 8. Pipe slope drain, 9. Level spreaders, 10. Storm drain inlet protection, 11. Vegetative buffer strip, 12. Vegetative preservation area, 13. Retention Pond, 14. Construction entrance stabilization, 15. Perimeter ditch, 16. Curb and gutter, 17. Paved road surface, 18. Rock outlet protection, 19. Reinforced soil retaining system, 20. Gabion, 21. Sediment Basin, 22. Temporary seed / sod, 23. Permanent seed / sod, 24. Mulch, 25. Hay Bales, 26. Geotextile, 27. Rip-rap, 28. Tree protection, 29. Detention pond, 30. Retention pond, 31. Waste disposal / housekeeping, 32. Dam, 33. Sand Bag, 34. Other

INSPECTOR INFORMATION:

Name Qualification Date

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non compliance identified above.

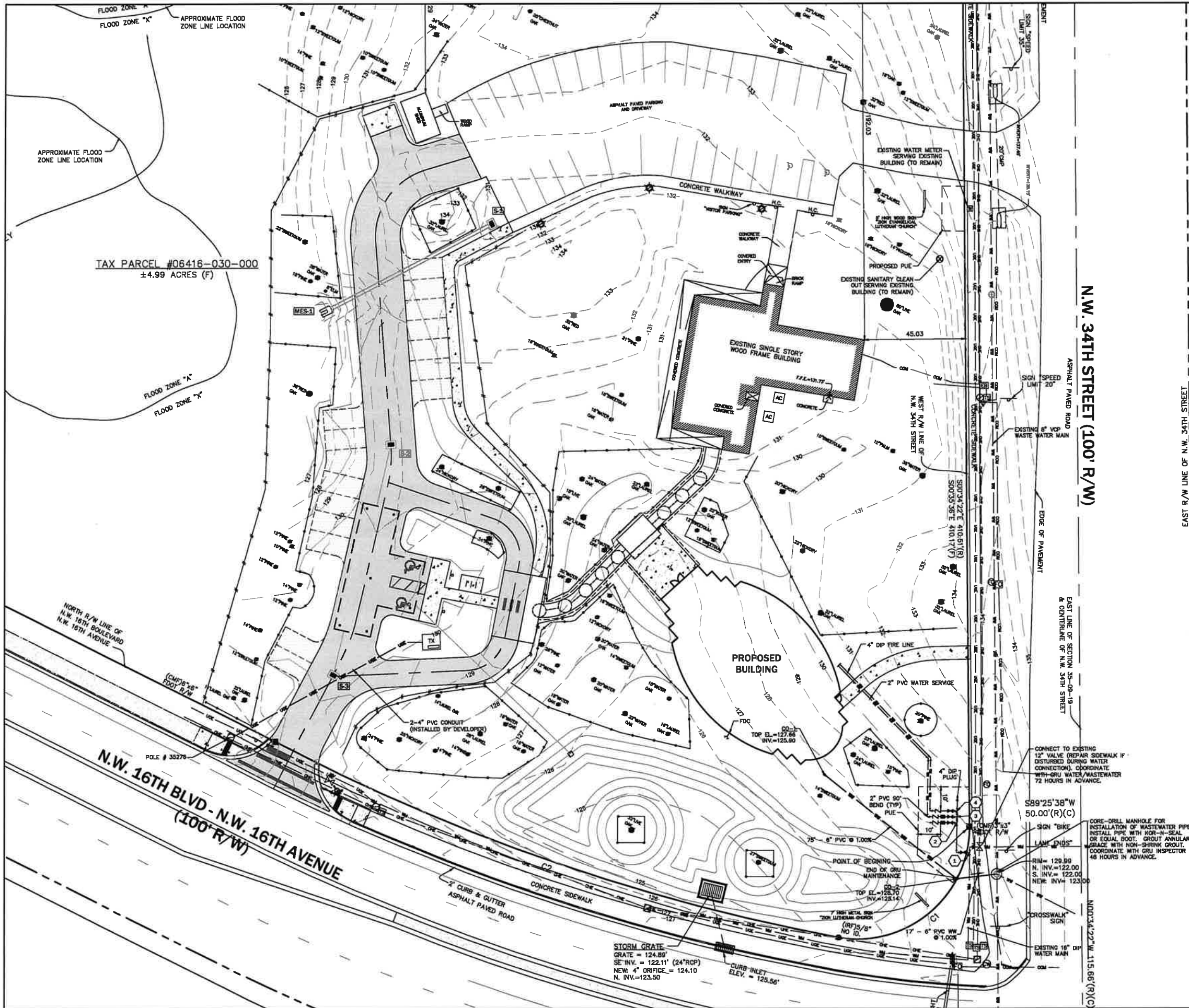
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



ZION EVANGELICAL LUTHERAN CHURCH CITY OF GAINESVILLE, FLORIDA STORMWATER POLLUTION PREVENTION PLAN

Project: CITY/GRU RESUBMITTAL Design: SERGIO REYES/PAUL QUADRANTAR Project No: 16-18 Date: 10/16/18 Professional Engineer or Recorder: SERGIO J. REYES, P.E. License No. 00473111

Sheet No.: C3.00



TAX PARCEL #06416-030-000
±4.99 ACRES (F)

N.W. 34TH STREET (100' R/W)

N.W. 16TH BLVD - N.W. 16TH AVENUE
(100' R/W)

GRU UTILITY NOTES

1. A SEPARATE UTILITY PERMIT WILL BE REQUIRED FOR THE EXTENSION OF THE PROPOSED UTILITIES (WATER & WASTEWATER).
2. THE UTILITY PLAN AND PLAT SHOWS ALL PUBLIC UTILITY EASEMENTS (PUE'S) IN A METES AND BOUNDS FORMAT. UPON GRU'S APPROVAL OF PLANS FOR DEVELOPMENTS NOT BEING PLATED, OWNER MAY CHOOSE TO GRANT THE METES AND BOUNDS EASEMENTS AS SHOWN, OR GRANT A BLANKET EASEMENT OVER THE ENTIRE PROPERTY, PROVIDED FACILITIES ARE INSTALLED WITHIN THE PRESCRIBED DISTANCES AS SHOWN ON THE UTILITY PLANS AND IN ACCORDANCE WITH THE UTILITY SEPARATION REQUIREMENTS TABLE IN APPENDIX C OF THE GRU W/WW/RCW DESIGN STANDARDS.
3. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER AND RECLAIMED WATER SYSTEMS SHALL CONFORM TO GRU'S MOST RECENT POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEM DESIGN STANDARDS AND APPROVED MATERIALS MANUAL.
4. POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
5. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FOR POTABLE WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, AND 15 FEET FOR GRAVITY WASTEWATER MAINS SHALL BE PROVIDED AND MAINTAINED FROM BUILDINGS, TRANSFORMERS AND ALL PERMANENT STRUCTURES. SERVICE LATERALS REQUIRE 5 FEET LESS CLEARANCE FOR EACH OF THE UTILITIES; NOTE THAT WATER SERVICE LATERALS SHALL BE INSTALLED WITHIN 3" SLEEVES. (SEE APPENDIX C OF GRU'S DESIGN STANDARDS AND CONSTRUCTION DETAILS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER - HORIZONTAL SEPARATION DISTANCES FOR PARALLEL AND PERPENDICULAR CLEARANCE FROM OTHER OBJECTS TABLE.)
6. POTABLE WATER SERVICES, REQUIRING A SEPARATE WATER METER, SHALL BE PROVIDED TO EACH LOT, BUILDING OR PARCEL. EFFECTIVE OCTOBER 1, 2007, FOR COMMERCIAL, MULTIFAMILY, AND INSTITUTIONAL DEVELOPMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR INSTALLING POTABLE WATER SERVICES AND YOKE ASSEMBLY PACKAGE UP TO AND INCLUDING THE METER YOKE BOX (INSTALLED AT FINAL GRADE) AND ASSOCIATED APPURTENANCES, FOR METERS 1" AND SMALLER (SEE GRU W/WW/RCW CONSTRUCTION DETAIL W-B-0), WITH A ONE-YEAR WARRANTY.
7. 2" VALVES LOCATED IN PAVED AREAS, INCLUDING SIDEWALKS, SHALL BE GRU APPROVED CAST IRON, RESILIENT SEAT GATE VALVES WITH STANDARD 2" OPERATING NUT, THREADED WITH BRASS NIPPLE BETWEEN THE VALVES AND TAPPING SADDLE OR TAPPED TEE.
8. WATER MAINS 4" IN DIAMETER AND GREATER, PLACED UNDER ROADWAYS, SHALL BE CEMENT LINED DUCTILE IRON PIPE (CLDIP) EXTENDING 5 FEET PAST THE BACK OF CURB (3 FEET WITHIN CITY OF GAINESVILLE LIMITS) TRACER WIRE INSTALLED ON PVC WATER MAINS SHALL CONTINUE ACROSS THE CLDIP SECTIONS.
9. 1" OR 2" WATER SERVICE CROSSINGS LOCATED UNDER ROADWAYS SHALL BE ENCASED IN 3" SCH 40 PVC EXTENDING 5' PAST THE BACK OF CURB (3' INSIDE CITY OF GAINESVILLE LIMITS).
10. ANCHORING TEES, COUPLINGS, AND BENDS SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.
11. ALL PRESSURIZED MAIN FITTINGS SHALL BE MECHANICAL JOINT WITH RESTRAINED JOINT GLANDS. SUFFICIENT LENGTH OF THE PIPE CONNECTED TO THE FITTINGS SHALL BE MECHANICALLY RESTRAINED TO PROVIDE RESISTANCE AS SPECIFIED ON THE RESTRAINED JOINT STANDARD IN THE CONSTRUCTION DETAILS OF THE GRU STANDARDS (W-2.6 & 2.9, RCW-2.6 & 2.9, AND MW-2.4 & 2.5). CALCULATIONS FOR REQUIRED RESTRAINT LENGTH MUST BE PROVIDED IF THE SPECIFIED RESTRAINT LENGTH, DUE TO SOIL TYPE OR DEPTH OF COVER, DIFFERS FROM THOSE PROVIDED ON THESE DETAILS.
12. ALL SANITARY WASTEWATER SERVICE LATERALS SHALL BE MIN. 4" DIAMETER PVC (SDR 35) AT 1.00% MIN. SLOPE UNLESS OTHERWISE LABELED.
13. WASTEWATER CLEANOUT COVERS LOCATED WITHIN PAVEMENT AND SIDEWALKS ADJACENT TO PAVED AREAS SHALL BE RATED FOR TRAFFIC LOAD BEARING. WASTEWATER CLEANOUT COVERS IN OTHER SIDEWALKS/WALKWAYS SHALL BE BRASS WITH A SQUARE RECESS.
14. MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RISE EXCESS AT LEAST 6" ABOVE FINISHED GRADE, AND A 10:1 SLOPE TO FINISHED GRADE.
15. UNLESS OTHERWISE NOTED ON THE PLANS, THE FINISHED FLOOR ELEVATIONS OF BUILDINGS SHALL BE A MINIMUM OF 6" ABOVE THE LOWEST UPSTREAM MANHOLE TOP. IF THIS IS INFEASIBLE, A WASTEWATER SERVICE LATERAL BACKWATER VALVE (BWV) IS REQUIRED ON THE CUSTOMER SIDE OF CLEANOUT.
16. WHEN A POTABLE OR RECLAIMED WATER MAIN, OR A WASTEWATER FORCE MAIN IS ROUTED WITHIN 10 FT. OF AN ELECTRIC TRANSFORMER, A 20 FT. LENGTH OF DIP SHALL BE CENTERED ON THE TRANSFORMER WITH MECHANICAL RESTRAINT AT EACH END. NO FITTINGS OR VALVES SHALL OCCUR WITHIN 10 FT. OF THE NEAREST EDGE OF THE TRANSFORMER. A MINIMUM CLEARANCE OF 3" SHALL BE MAINTAINED BETWEEN THE MAIN AND THE TRANSFORMER.
17. A/C CONDENSATE SHALL NOT FLOW INTO WASTEWATER SYSTEM.
18. CONTACT GRUCOM NOC AT (352) 334-2884 IF GRUCOM FACILITIES ARE DAMAGED DURING CONSTRUCTION.

WATER FITTING SCHEDULE

KEY	ASSEMBLY
1	1-1/2" TAPPING SADDLE 1-1/2" METAL 1-1/2" THREADED CAP 1-1/2" D-4" BEND 1-1/2" LONG LOW LEAD BRASS NIPPLE 1-1/2" PVC WATER SERVICE
2	1-4" PVC TEE 1-2" VALVE 1-2" IRRIGATION METER (END OF GRU MAINTENANCE) 1-3/8" RP28FP
3	1-4" PVC TEE 1-2" VALVE 1-2" WATER METER (END OF GRU MAINTENANCE) 1-2" RP28FP 1-2" PVC POTABLE WATER SERVICE
4	1-4" DIP TEE 1-4" VALVE AND BOX (END OF GRU MAINTENANCE) 1-4" RP28FP WITH OS & Y VALVE

*EXCAVATION AND BACKFILL BY CONTRACTOR. CONTACT GRU WATER INSPECTOR 7 DAYS IN ADVANCE.


NORTH
 SCALE: 1" = 20'

GRAPHIC SCALE

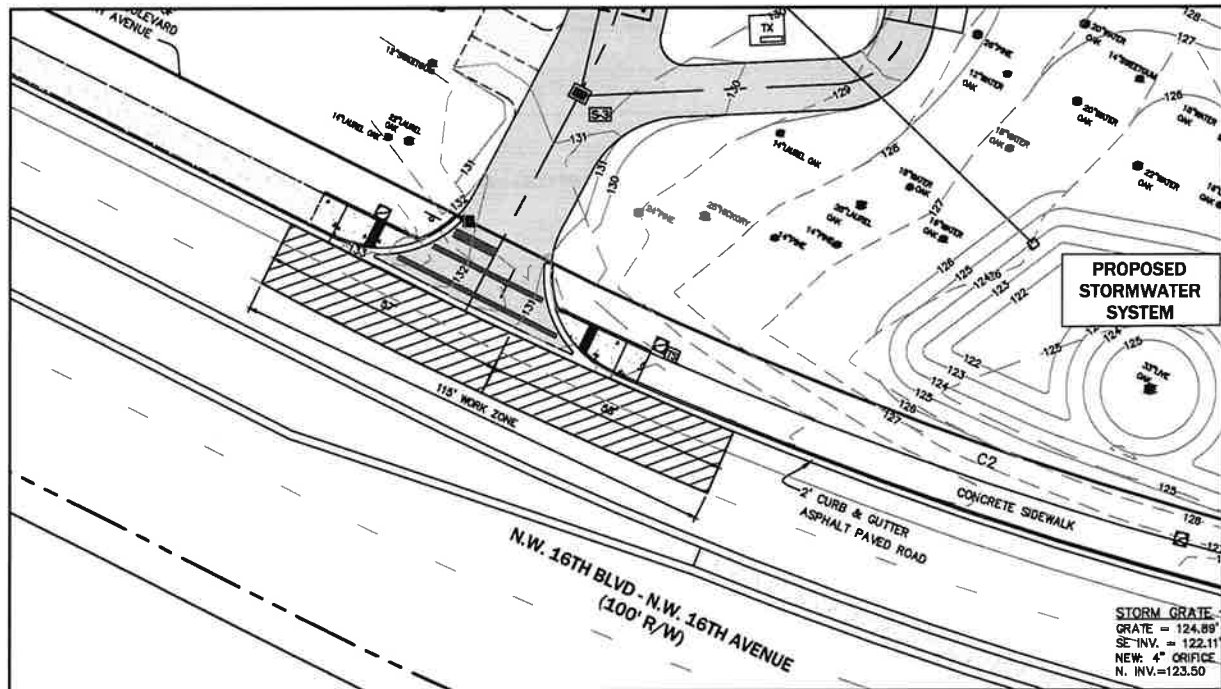

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ZION EVANGELICAL LUTHERAN CHURCH
 CITY OF GAINESVILLE, FLORIDA

UTILITY PLAN

Project: CITY/GRU RESUBMITTAL
 Designer: S. S. [Name]
 Project No.: 16-18 [Number]
 Professional Engineer of Record: [Name]
 Engineer: [Name]

Project phone: [Number]
 Sheet No.: **C4.00**



- NOTE:**
1. THE POSTED SPEED LIMIT IN THE WORK AREA IS 40 MPH.

MAINTENANCE OF TRAFFIC GENERAL NOTES

14-98.008 CONSTRUCTION AND MAINTENANCE OF TRAFFIC REQUIREMENTS

ALL CONSTRUCTION AND MAINTENANCE ON DEPARTMENT RIGHT OF WAY SHALL CONFORM TO THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCORPORATED BY REFERENCE UNDER RULE 14-15.010, F.A.C. ALL CONSTRUCTION AND MAINTENANCE ON DEPARTMENT RIGHT OF WAY SHALL ALSO CONFORM TO THE DEPARTMENT'S DESIGN STANDARDS, JANUARY 2002, TOPIC #025-010-003; THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2003 EDITION; THE DEPARTMENT'S PLANS PREPARATION MANUAL, JANUARY 2003, OR OTHER GENERALLY ACCEPTED PROFESSIONAL PRACTICES. WITH THE EXCEPTION OF THE MUTCD, WHICH ALREADY IS INCORPORATED BY REFERENCE UNDER RULE 14-15.010, F.A.C., THE MANUALS AND STANDARDS SPECIFICALLY LISTED IN THIS SECTION ARE HEREBY INCORPORATED BY REFERENCE AND MADE PART OF THE RULES OF THE DEPARTMENT OF TRANSPORTATION.

1. **DISRUPTION OF TRAFFIC:** FOR SAFETY AND OPERATIONAL PURPOSES, THE DEPARTMENT MAY REQUIRE OR RESTRICT HOURS OF CONSTRUCTION TO MINIMIZE DISRUPTION OF TRAFFIC ON THE STATE HIGHWAY SYSTEM. WHEN CONSTRUCTION ACTIVITY ON A CONNECTION CAUSES UNLAME DISRUPTION OF TRAFFIC OR CREATES SAFETY HAZARDS ON A STATE HIGHWAY, THE DISTRICT SECRETARY OR DESIGNEE SHALL ADVISE THE PERMITTEE OF THE NEED FOR IMMEDIATE CORRECTIVE ACTION BY A SPECIFIED TIME, AND MAY ISSUE A STOP WORK ORDER IF DEEMED NECESSARY.
2. **CONNECTION COMPLETION TIME LIMIT:** CONSTRUCTION SHALL BE COMPLETED WITHIN ONE YEAR OF THE DATE OF ISSUANCE OF THE PERMIT. FAILURE TO COMPLY WITH THE ONE YEAR TIME LIMIT SHALL RESULT IN AN AUTOMATIC EXPIRATION OF THE PERMIT UNLESS EXTENDED BY THE DEPARTMENT AS DESCRIBED IN SECTION 335.18(2), FLORIDA STATUTES. A STOP WORK ORDER MAY BE ISSUED BY THE DEPARTMENT IF WORK EXCEEDS THE IMPOSED TIME RESTRICTIONS. FOR ANY PERMIT WHICH EXPIRES FOR FAILURE TO CONSTRUCT THE CONNECTION WITHIN THE ONE YEAR LIMIT, THE APPLICANT SHALL SUBMIT A NEW APPLICATION, INCLUDING THE PAYMENT OF THE REQUIRED APPLICATION FEE, PRIOR TO THE INITIATION OR CONTINUATION OF ANY CONSTRUCTION.

LANE CLOSURE RESTRICTIONS

1. LANE CLOSURES SHALL ONLY OCCUR BETWEEN 6:00 AM TO 4:00 PM. THE STATE ACCESS PERMITTED LIMITS CAN BE CLOSED DOWN UNTIL SUCH TIME AS THE PERMITTEE HAS BROUGHT THE PROJECT BACK INTO COMPLIANCE WITH THE PERMIT REQUIREMENTS AND TO FDOT SATISFACTION.
2. ALL LANES MUST BE OPENED FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION EVENT.

LEGEND

- LIMITS OF LANE CLOSURE PER FDOT INDEX 613
- SIGN WITH 18" x 18" (MIN.) ORANGE FLAG AND TYPE B LIGHT
- TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (WITH STEADY BURNING LIGHT AT NIGHT ONLY)
- WORK ZONE SIGN
- ADVANCE WARNING ARROW PANEL
- TYPE I, TYPE II OR TYPE III BARRICADE OR VERTICAL PANEL OR DRUM (WITH FLASHING LIGHT)



NORTH
SCALE: 1" = 20'



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ZION EVANGELICAL LUTHERAN CHURCH
CITY OF GAINESVILLE, FLORIDA
Project: WORK WITHIN THE COUNTY RIGHT OF WAY
MAINTENANCE OF TRAFFIC PLAN

Project: CITY/GRU RESUBMITTAL
Designed: S. J. [Name] / J. [Name] / T. [Name]
Project No. 14-18-1001 (Rev. 02/17/16)
Professional Engineer of Record: [Name]
Stamp: [Professional Engineer Seal]

Sheet No.: **C5.00**

Table II Buffer Space and Taper Length

Speed (mph)	Buffer Space (ft.)		Taper Length (ft.)		Notes
	Dist. (ft.)	Rate (ft./ft.)	Dist. (ft.)	Rate (ft./ft.)	
25	153	125	153	125	L = WS 60'
30	200	180	200	180	
35	250	245	250	245	L = WS 60'
40	303	320	303	320	
45	360	410	360	410	L = WS 60'
50	423	500	423	500	
55	495	600	495	600	L = WS 60'
60	570	720	570	720	
65	645	840	645	840	L = WS 60'
70	730	960	730	960	

Table I Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)	
	Cones or Tubular Markers	Type I or Type II Barricades or Vertical Panels or Drums
25	75	50
30 to 45	25	50
50 to 70	25	50

GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
2. On undivided highways the median signs as shown are to be omitted.
3. When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.
4. Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the taper to direct vehicular traffic to remain within the travel way. See Index No. 612 for shoulder taper formulas.
7. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TTC indexes.
8. This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index No. 614.
9. For general TTC requirements and additional information, refer to Index No. 600.

SYMBOLS

- Work Area
- Sign with 18" x 18" (Min.) Orange Flag and Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Advance Warning Arrow Board

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUSH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

LAST REVISION: 07/01/09
DESCRIPTION: FDOT 2014 DESIGN STANDARDS

MULTILANE, WORK WITHIN TRAVEL WAY
MEDIAN OR OUTSIDE LANE

INDEX NO. 613
SHEET NO. 1 of 2

GENERAL NOTES

1. Only the signs controlling pedestrian flows are shown. Other work zone signs will be needed to control traffic on the streets.
2. For spacing of traffic control devices and general TTC requirements refer to Index No. 600. Maximum spacing between barricades, vertical panels, drums or tubular markers shall not be greater than 20'.
3. Street lighting should be considered.
4. For nighttime closures use Type A flashing warning lights on barricades supporting signs and closing sidewalks. Use Type C steady burn lights on channelizing devices separating the work area from vehicular traffic.
5. Pedestrian traffic signal display controlling closed crosswalks shall be covered or deactivated.
6. Post mounted signs located near or adjacent to a sidewalk shall have a 2' minimum clearance from the bottom of sign to the sidewalk.
7. When construction activities involve sidewalks on both sides of the street, efforts should be made to stage the construction so that both sidewalks are not out of service at the same time.
8. In the event that sidewalks on both sides of the street are closed, pedestrians shall be guided around the construction zone.
9. Temporary walkways shall be a minimum of 4' wide with a maximum 0.02 cross slope and a maximum 0.05 running slope between ramps. Temporary walkways less than 9' in width shall provide for a 9' x 9' passing space at intervals not to exceed 200'. Temporary ramps shall meet the requirements for curb ramps specified in Index No. 304. Temporary walkway surfaces and ramps shall be stable, firm, slip resistant, and free of any obstructions and hazards such as holes, debris, mud, construction equipment, stored materials, etc.
10. Temporary ramps and temporary crosswalk markings shall be removed with reopening of the sidewalk, unless otherwise noted in the plans. All work and materials associated with constructing temporary curb ramps and temporary crosswalk markings, removal and disposal of temporary curb ramps and temporary crosswalk markings, and restoration to original condition shall be paid for as Maintenance of Traffic, Lamp Sum.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT WORKERS OR THEIR ACTIVITIES ENCRUSH ON THE SIDEWALK FOR A PERIOD OF MORE THAN 60 MINUTES.

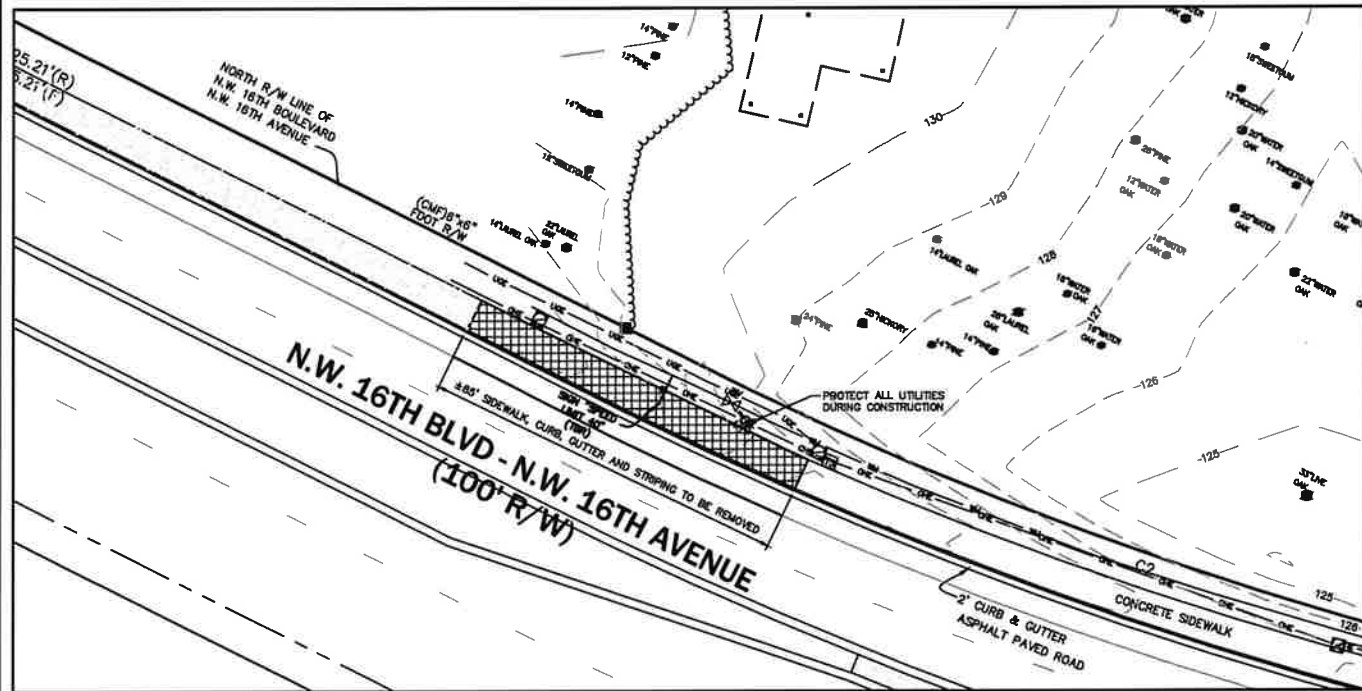
SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Required Locations for Either Temporary or Permanent Curb Ramps
- Lane Identification - Direction of Traffic
- Pedestrian Longitudinal Channelizing Device

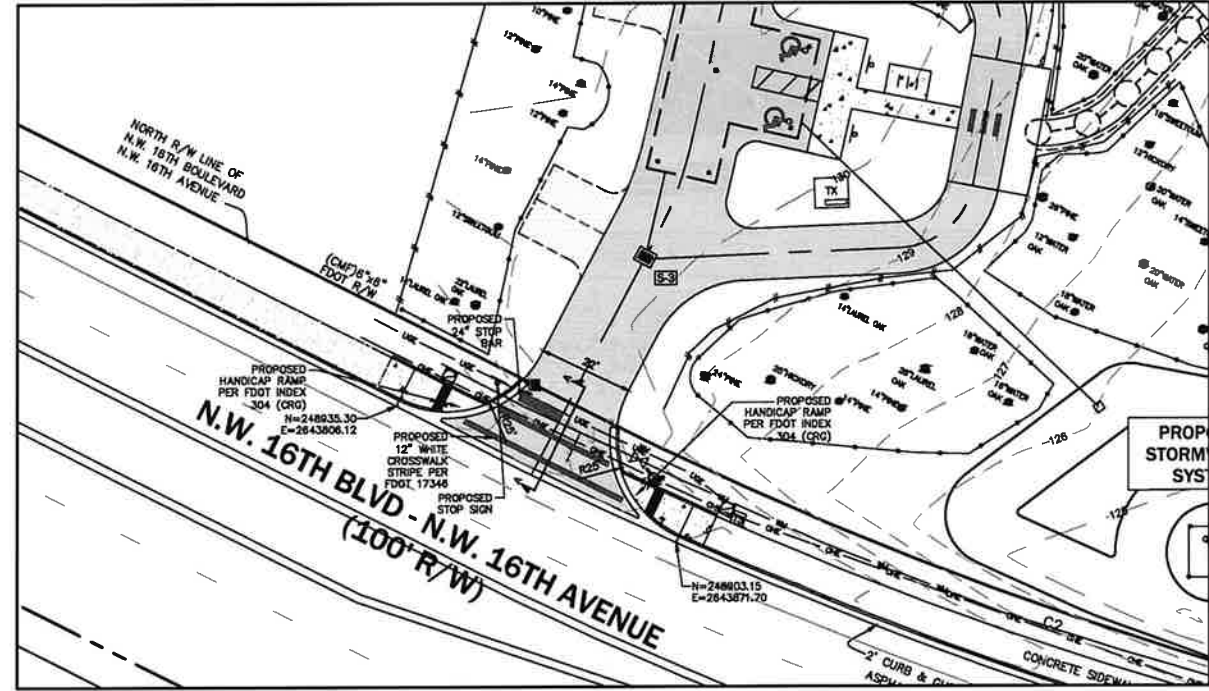
LAST REVISION: 07/01/12
DESCRIPTION: FDOT DESIGN STANDARDS 2013

PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

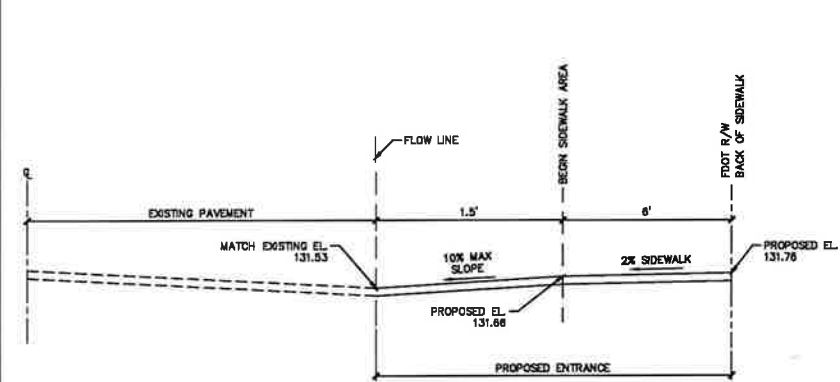
INDEX NO. 660
SHEET NO. 1



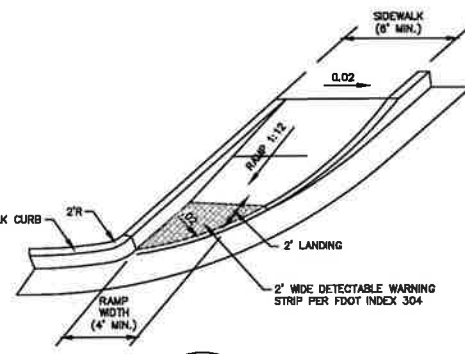
DEMOLITION PLAN



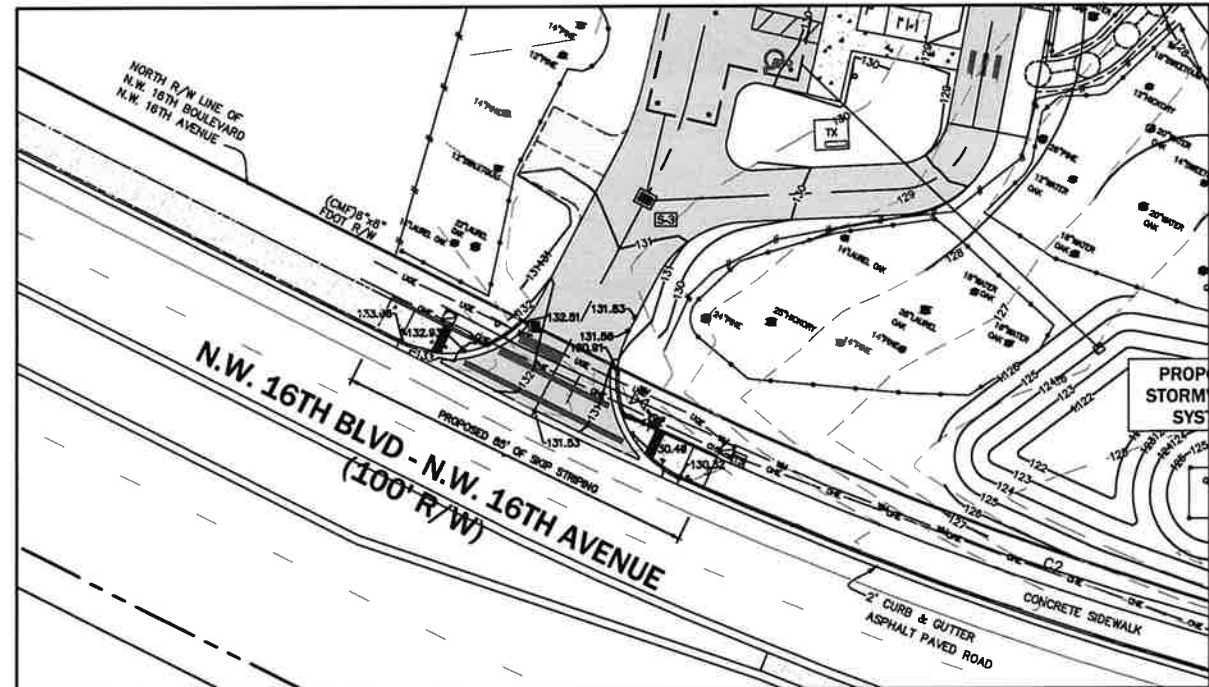
DIMENSION PLAN



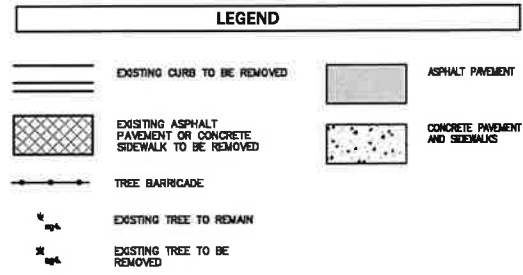
DRIVEWAY CONNECTION PROFILE SECTION A-A
N.T.S.



SIDEWALK CURB RAMPS-FDOT INDEX 304
N.T.S.



GRADING PLAN

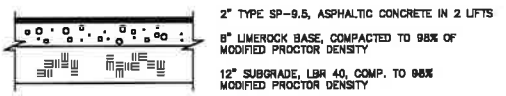


DEMOLITION NOTES

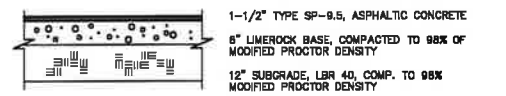
1. IN AREAS WHERE PROPOSED CURB IS TO BE PLACED, THE ASPHALT PAVEMENT SHALL BE REMOVED TO THE FACE OF CURB TO ALLOW PLACEMENT OF 8" STANDARD CONCRETE CURB.
2. IN AREAS OF PROPOSED LANDSCAPE, THE PAVEMENT, LIMEROCK BASE, AND 12" OF THE STABILIZED SUBGRADE SHALL BE REMOVED. COORDINATE WITH LANDSCAPE ARCHITECT TO DETERMINE IF ADDITIONAL REMOVAL IS REQUIRED TO MAKE AREA SUITABLE FOR LANDSCAPE PURPOSES. THE REMOVED LIMEROCK BASE SHALL NOT BE USED IN THE BASE FOR THE NEW PAVEMENT (PER FOOT SECTION 200), BUT THE REMOVED BASE CAN BE USED IN THE STABILIZATION OF SUBGRADE. ALL DISTURBED OPEN AREAS SHALL BE SODED.
3. SEE DIMENSION PLAN FOR DIMENSIONS OF PROPOSED LANDSCAPE AREAS.
4. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES TO REMAIN, AS SHOWN IN THE UTILITY PLAN. ANY EXISTING UTILITIES TO BE REMOVED SHALL BE COORDINATED WITH THE ASSOCIATED UTILITY COMPANY, AND PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
5. ALL CURB, GUTTER AND SIDEWALK WILL BE REMOVED AND REPLACED JOINT TO JOINT.
6. ALL BROKEN/CRACKED DRIVEWAYS MUST BE FULLY REMOVED AND REPLACED.
7. ALL DISTURBED AREAS WITHIN THE DEPARTMENT'S RIGHT-OF-WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED (BERMUDA IN RURAL, CENTPEDE IN UTILITY STRIPS.)
8. BURNING ANY MATERIAL OR DEBRIS IS PROHIBITED IN ALACHUA COUNTY RIGHT-OF-WAY.

GENERAL NOTES

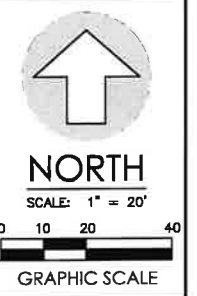
1. ALL TRAFFIC STRIPING AND MARKINGS SHALL BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC.
2. EXISTING STRIPING SHALL BE REMOVED USING THE "HYDRO-BLAST" METHOD. IF THIS PROCESS DAMAGES/SCARS PAVEMENT, PAVEMENT SHALL BE MILLED AND RESURFACED PER FOOT STANDARDS.
3. ALL DIRECTIONAL ARROWS SHALL BE PLACED AS ONE SEGMENT.
4. ALIGNMENT PROPOSED PAVEMENT MARKING ALIGNMENTS SHALL MATCH EXISTING PAVEMENT MARKINGS AT PAVEMENT MARKING LIMITS OF CONSTRUCTION.
5. ALL SIGNS SHALL CONFORM TO FOOT INDEX 11860 STANDARDS.
6. ALL ABOVE GROUND REQUIRED SIGNAGE SHALL CONSTRUCTED TO FOOT SPECIFICATIONS.



TYPICAL ASPHALT PAVEMENT DETAIL
(ALACHUA COUNTY R/W)
N.T.S.



TYPICAL ASPHALT PAVEMENT DETAIL
N.T.S.



eds40
engineers • surveyors • planners
13300 E. FLORIDA AVE. SUITE 400
GAINESVILLE, FL 32604
TEL: 352.373.5541 FAX: 352.373.7549
www.eds40.com

Project: ZION EVANGELICAL LUTHERAN CHURCH
CITY OF GAINESVILLE, FLORIDA
Sheet title: WORK WITHIN THE COUNTY RIGHT OF WAY
DEMOLITION, DIMENSION, AND GRADING PLAN

Project phone: CITY/ISRU RESUBMITTAL
Designed: S. J. [Name] / [Date]
Project No: [Number] / [Date]
Professional Engineer of Record: [Name]
[Seal]

Sheet No: **C5.10**

PHOTOMETRIC NARRATIVE

THE FOLLOWING IS INTENDED TO SERVE AS A DESIGN NARRATIVE FOR THE PHOTOMETRIC ANALYSIS AND SITE LIGHTING DESIGN.

THIS DESIGN ENCOMPASSES LIGHTING FOR ADDITIONAL PARKING FACILITIES FOR AN EXISTING CHURCH, THE SITE IS LOCATED WEST OF NW 34TH ST AND NORTH OF NW 16TH AVE.

PROPOSED SITE LIGHTING IS ACCOMPLISHED WITH POLE MOUNTED LED FIXTURE. THE FIXTURES WILL OPERATE FROM DUSK-TO-DAWN IN ACCORDANCE WITH 30-6.12(D)(1)(g), BUT WILL BE PROVIDED WITH AN INTEGRAL DIMMING DRIVER TO REDUCE OUTPUT TO 50% DURING LATE NIGHT HOURS.

LIGHT TRESPASS VALUES ARE WITHIN REQUIRED LIMITATIONS AT ALL POINTS.

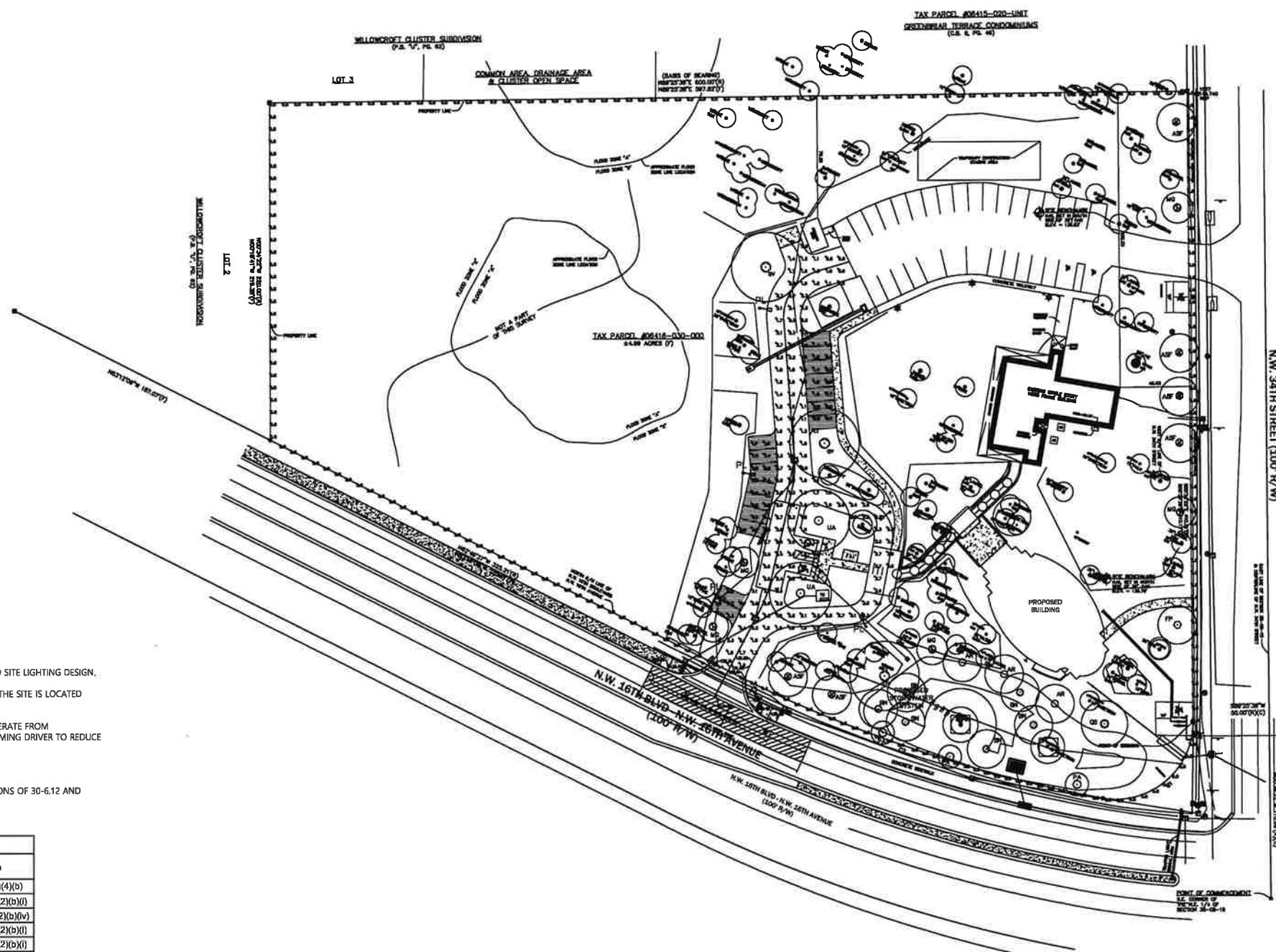
OVERALL, THIS DESIGN PROVIDES SAFE LIGHTING FOR PATRONS WHILE CONFORMING WITH THE PROVISIONS OF 30-6.12 AND MINIMIZING IMPACT ON NEIGHBORING PROPERTIES.

Photometric Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Code
PARKING LOT	+	2.0 fc	3.9 fc	0.5 fc	7.8:1	4.0:1	30-6.12(E)(4)(b)
NORTH PROPERTY LINE	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A	30-6.12(D)(2)(b)(i)
SOUTH PROPERTY LINE	+	0.1 fc	1.5 fc	0.0 fc	N/A	N/A	30-6.12(D)(2)(b)(iv)
EAST PROPERTY LINE	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A	30-6.12(D)(2)(b)(i)
WEST PROPERTY LINE	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A	30-6.12(D)(2)(b)(i)

Luminaire Schedule for Photometrics											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens Per Lamp	Light Loss Factor	Wattage	Mounting Height
□	PL	5	Lectek Electronics	ARXX-15M2-MV-NW-3-XX-700 S	Lectek Electronics - Pole arm mount roadway luminaire.	LED	ARXX-15M2-MV-NW-3-XX-700S.lgt	14855	0.81	124	25

FIXTURE SCHEDULE NOTES.

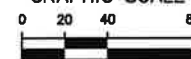
1. FIXTURE TYPE 'PL' IS A FULL CUT-OFF, POLE MT, LOW-PROFILE TYPE LED FIXTURE BY GRU. THE FIXTURE SHALL BE INSTALLED ON A 25FT POLE AND CONCRET POLE BASE.
2. DUE TO THE FULL CUT-OFF NATURE OF ALL PROPOSED FIXTURES, THE LIGHT LEVELS AT 5FT ABOVE THE FIXTURE ARE 0.0FC BY DEFINITION IN ACCORDANCE WITH 30-6.12(D)(1)(b).



SITE PHOTOMETRIC PLAN

SCALE: 1" = 40'-0"

GRAPHIC SCALE



GENERAL NOTES

1. HIGHLIGHTED POINTS REPRESENT MAXIMUM/MINIMUM VALUE FOR EACH AREA.
2. FIXTURES WILL BE CONTROLLED WITH PHOTOCELL AND OPERATE DUSK-TO-DAWN.

HUNTER DESIGN AND CONSULTING, INC.
735 ARLINGTON AVE N, STE 308
ST PETERSBURG, FL 33701
352-238-6366
FLORIDA CA #31946, PE #76961

ZION LUTHERAN CHURCH
ADDITIONAL PARKING
GAINESVILLE, FLORIDA
SITE PHOTOMETRIC PLAN

PROJECT INFORMATION

PROJECT NUMBER: 17038
DRAFTED: K. HUNTER
DESIGNED: K. HUNTER
REVIEWED: K. HUNTER
ISSUE DATE: 3/16/18

REVISIONS

SHEET NUMBER

E-1

TAX PARCEL #06415-020-UNIT
GREENBRIAR TERRACE CONDOMINIUMS
(C.B. 8, PG. 49)

WILLOWCROFT CLUSTER SUBDIVISION
(P.B. "U", PG. 62)

LOT 3

COMMON AREA DRAINAGE AREA
& CLUSTER OPEN SPACE

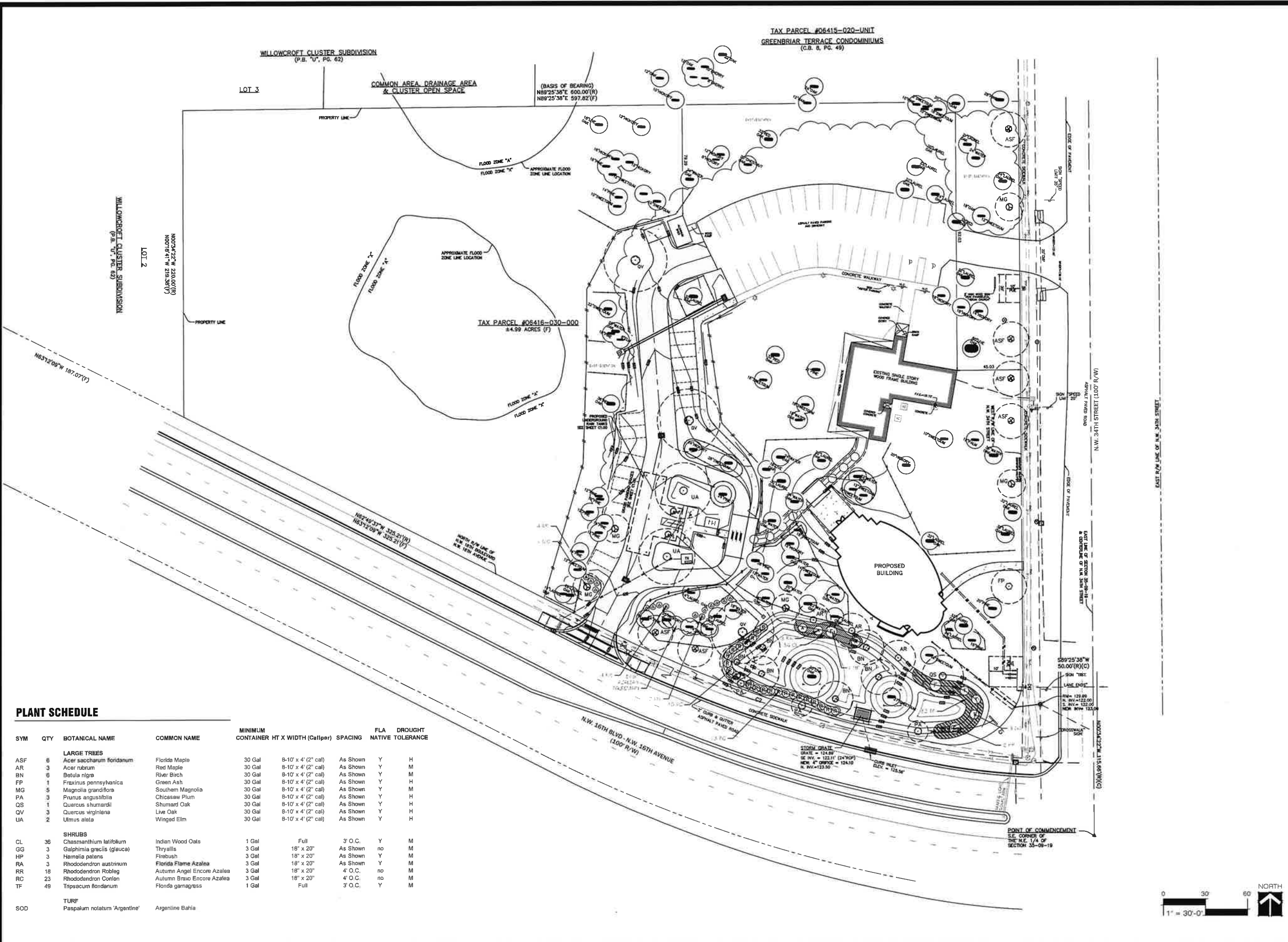
(BASIS OF BEARING)
N89°25'38"E 600.00'(R)
N89°25'38"E 597.82'(F)

WILLOWCROFT CLUSTER SUBDIVISION
(P.B. "U", PG. 62)

LOT 2

N002°22'W 220.00'(R)
N002°22'W 219.38'(F)

TAX PARCEL #06415-030-000
84.99 ACRES (F)



PLANT SCHEDULE

SYM	QTY	BOTANICAL NAME	COMMON NAME	MINIMUM CONTAINER	HT X WIDTH (Caliper)	SPACING	FLA	DROUGHT	NATIVE	TOLERANCE
LARGE TREES										
ASF	6	Acer saccharum floridanum	Florida Maple	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	H		
AR	3	Acer rubrum	Red Maple	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	M		
BN	6	Betula nigra	River Birch	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	M		
FP	1	Fraxinus pennsylvanica	Green Ash	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	H		
MG	5	Magnolia grandiflora	Southern Magnolia	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	M		
PA	3	Prunus angustifolia	Chicasaw Plum	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	H		
QS	1	Quercus shumardii	Shumard Oak	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	H		
QV	3	Quercus virginiana	Live Oak	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	H		
UA	2	Ulmus alata	Winged Elm	30 Gal	8-10' x 4' (2" cal)	As Shown	Y	H		
SHRUBS										
CL	36	Chasmanthium latifolium	Indian Wood Oats	1 Gal	Full	3' O.C.	Y	M		
GG	3	Galphimia gracilis (glauca)	Thyris	3 Gal	18" x 20"	As Shown	no	M		
HP	3	Hammelia patens	Firebush	3 Gal	18" x 20"	As Shown	Y	M		
RA	3	Rhododendron austrinum	Florida Flame Azalea	3 Gal	18" x 20"	As Shown	Y	M		
RR	16	Rhododendron Robleg	Autumn Angel Encore Azalea	3 Gal	18" x 20"	4' O.C.	no	M		
RC	23	Rhododendron Conlen	Autumn Bravo Encore Azalea	3 Gal	18" x 20"	4' O.C.	no	M		
TF	49	Taraxacum flondanum	Florida gamagrass	1 Gal	Full	3' O.C.	Y	M		
TURF										
SOD		Paspalum notatum 'Argentine'	Argentine Bahia							

PREPARED BY:
ZAMIA DESIGN
Landscape Architecture

3459 NW 13th Avenue
Gainesville, Florida 32605
Ph. 352-373-8220 Fax 866-845-7717
LC 26000252

PREPARED FOR:
ZION EVANGELICAL LUTHERAN CHURCH

PROJECT:
ZION EVANGELICAL LUTHERAN CHURCH
GAINESVILLE, FLORIDA

SHEET TITLE:
LANDSCAPE PLAN

PROJECT PHASE:
CITY / GRU RESUBMITTAL

ISSUE DATE:
MARCH 08, 2018

REVISIONS		
NO.	DATE	COMMENTS

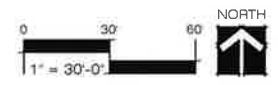
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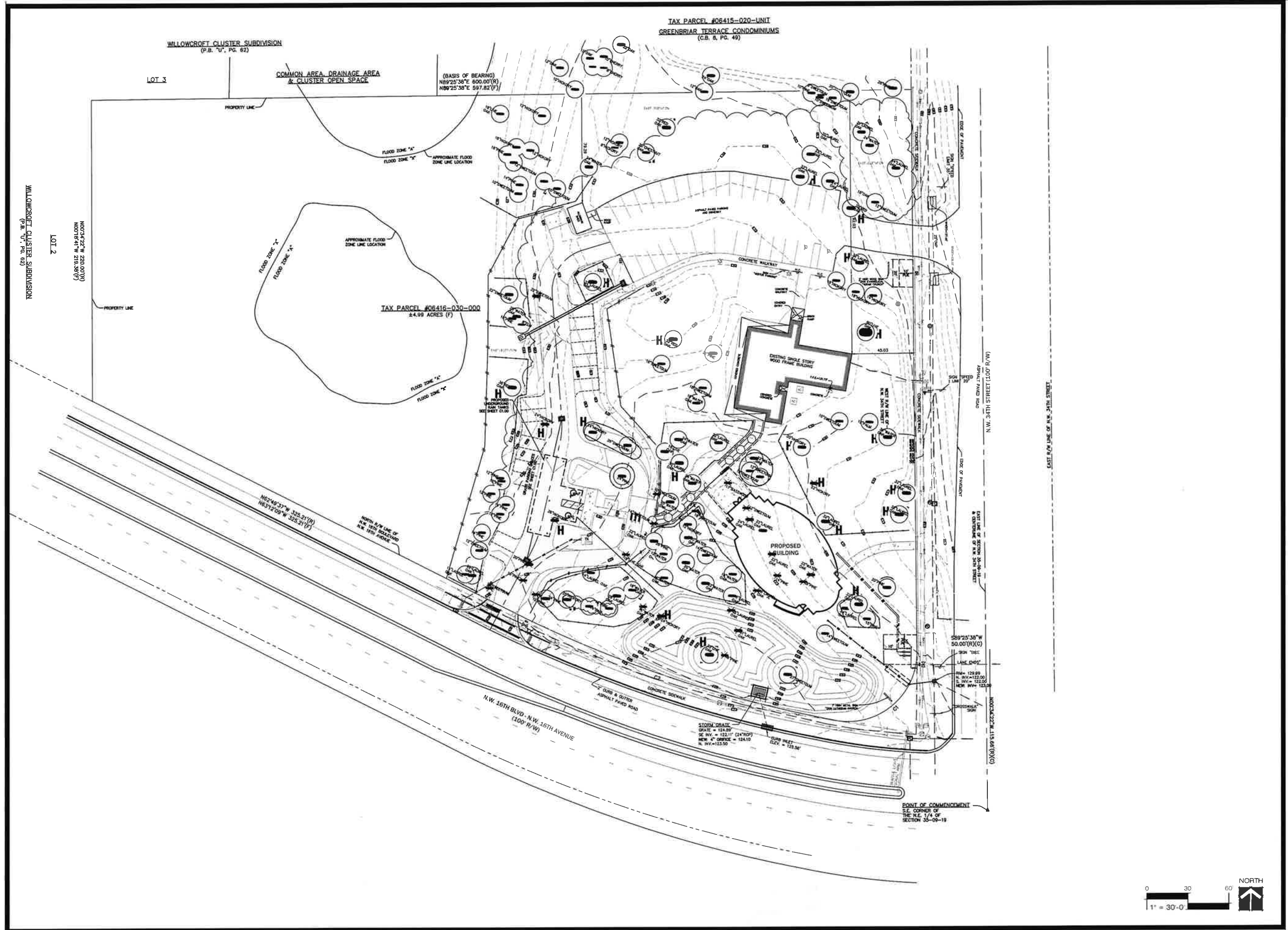
LAWRENCE E. TEAGUE
FLORIDA: LA0001562

PROJECT NUMBER:
17015.1

DRAWN BY: ALZ CHECKED BY: LET

SHEET NUMBER:
L2.01





TAX PARCEL #06415-020-UNIT
 GREENBRIAR TERRACE CONDOMINIUMS
 (C.B. 5, PG. 49)

WILLOWCROFT CLUSTER SUBDIVISION
 (P.B. "U", PG. 62)

LOT 3

COMMON AREA DRAINAGE AREA
 & CLUSTER OPEN SPACE

(BASIS OF BEARING)
 N89°25'36"E 600.00'(R)
 N89°25'38"E 597.82'(F)

FLOOD ZONE "X"
 APPROXIMATE FLOOD
 ZONE LINE LOCATION

FLOOD ZONE "X"
 APPROXIMATE FLOOD
 ZONE LINE LOCATION

TAX PARCEL #06416-030-000
 44.99 ACRES (F)

WILLOWCROFT CLUSTER SUBDIVISION
 (P.B. "U", PG. 62)

LOT 2

N00°04'22"W 220.00'(R)
 N00°04'41"W 218.38'(F)

FLOOD ZONE "X"
 APPROXIMATE FLOOD
 ZONE LINE LOCATION

FLOOD ZONE "X"
 APPROXIMATE FLOOD
 ZONE LINE LOCATION

N62°46'37"W 325.21'(R)
 N63°12'03"W 325.21'(F)

NORTH 1/4 LINE OF
 N.E. 1/4 SECTION
 N.E. 16th AVENUE

N.W. 16TH BLVD - N.W. 16TH AVENUE
 (100' R/W)

N.W. 34TH STREET (100' R/W)

EAST 1/4 LINE OF N.W. 34TH STREET

POINT OF COMMENCEMENT
 S.E. CORNER OF
 THE N.E. 1/4 OF
 SECTION 35-09-19



PREPARED BY:
ZAMIA
 DESIGN
 Landscape Architecture

3459 NW 13th Avenue
 Gainesville, Florida 32605
 Ph. 352-373-8220 Fax 866-845-7717
 LC 28000252

PREPARED FOR:
**ZION
 EVANGELICAL
 LUTHERAN
 CHURCH**

PROJECT:
**ZION
 EVANGELICAL
 LUTHERAN
 CHURCH**
 GAINESVILLE, FLORIDA

SHEET TITLE:
**TREE
 MITIGATION**

PROJECT PHASE:
**CITY / GRU
 RESUBMITTAL**

ISSUE DATE:
MARCH 08, 2018

REVISIONS		
NO.	DATE	COMMENTS

PROFESSIONAL SEAL:

LAWRENCE E. TEAGUE
 FLORIDA: LA0001582

PROJECT NUMBER:
17015.1

DRAWN BY: ALZ CHECKED BY: LET

SHEET NUMBER:
L1.01

BOUNDARY AND PARTIAL TOPOGRAPHIC SURVEY

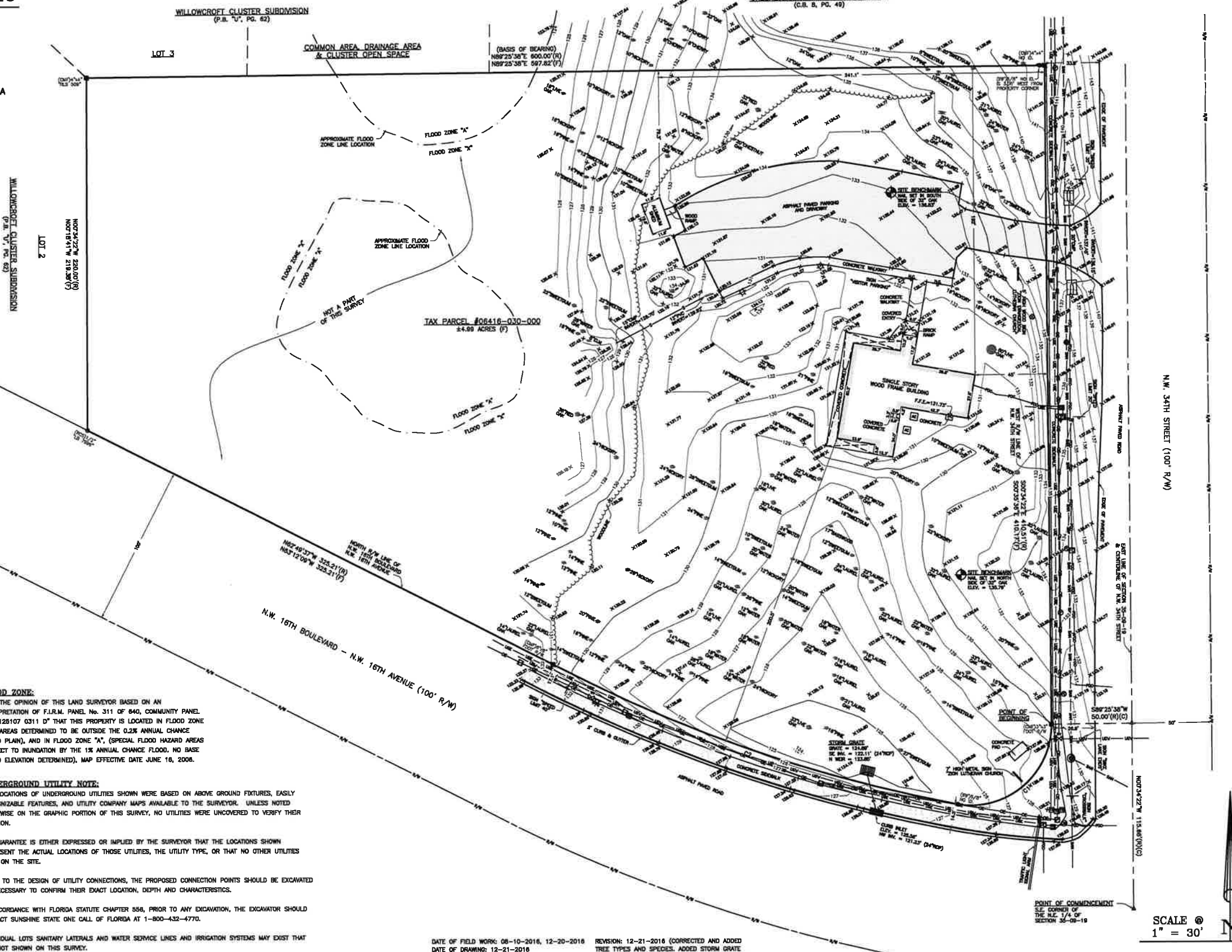
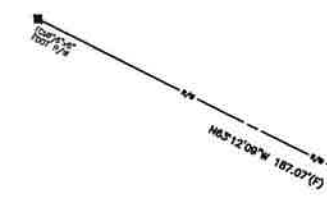
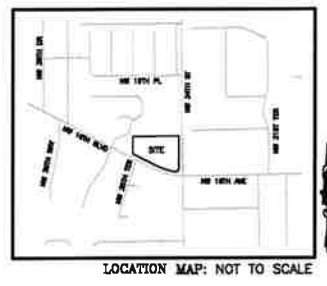
TAX PARCEL #06416-030-000
1700 N.W. 34TH STREET
GAINESVILLE, FL 32605

SECTION 35, TOWNSHIP 09 SOUTH, RANGE 19 EAST, ALACHUA COUNTY, FLORIDA

TAX PARCEL #06415-020-UNIT
 GREENBRIAR TERRACE CONDOMINIUMS
 (C.R. 8, PG. 49)

WILLOWCROFT CLUSTER SUBDIVISION
 (P.B. 7, PG. 62)

- LEGEND:**
- (R) RECORD MEASUREMENT
 - (F) FIELD MEASUREMENT
 - (C) CALCULATED CORNER
 - ID. IDENTIFICATION
 - R/W RIGHT-OF-WAY
 - O.R.S. OFFICIAL RECORDS BOOK
 - P.B. PLAT BOOK
 - C.B. CONDOMINIUM BOOK
 - P.G. PAGE
 - F.F.E. FINISHED FLOOR ELEVATION
 - INV. INVERT ELEVATION
 - PVC POLYVINYL CHLORIDE PIPE
 - CMP CORRUGATED METAL PIPE
 - RCF REINFORCED CONCRETE PIPE
 - (RCS) REBAR & CAP SET
 - (RCF) REBAR & CAP FOUND
 - (IRF) IRON ROD FOUND
 - (CMF) CONCRETE MONUMENT FOUND
 - AIR CONDITIONER
 - WOOD POWER POLE
 - WATER METER
 - CURB INLET
 - ELECTRIC BOX
 - SANITARY CLEAN-OUT
 - CONCRETE POWER POLE
 - SANITARY SEWER MANHOLE
 - TELEPHONE PEDESTAL
 - FIRE HYDRANT
 - CROSSWALK POLE
 - ELECTRIC METER
 - FIBER-OPTIC CABLE BOX
 - FIBER-OPTIC CABLE MARKER
 - MITERED END SECTION
 - STORM GRATE
 - SIGN
 - HANDICAP SIGN
 - TRAFFIC SIGNAL BOX
 - TRAFFIC SIGNAL POLE
 - WOOD LIGHT POLE
 - WATER VALVE
 - OVERHEAD ELECTRIC LINES
 - UNDERGROUND ELECTRIC LINES
 - UNDERGROUND WATER LINES
 - UNDERGROUND SANITARY SEWER LINES
 - UNDERGROUND STORM WATER LINES
 - UNDERGROUND FIBER-OPTIC LINES



LAND DESCRIPTION: (OFFICIAL RECORDS BOOK 971, PAGE 411)
 COMMENCE AT THE SE CORNER OF THE NE 1/4 OF SECTION 35-T9S-R19E AND RUN N 0°34'22" W ALONG THE EAST LINE OF SAID SECTION AND THE CENTERLINE OF NW 34TH STREET 115.86 FEET, THENCE RUN S 89°25'38" WEST 50 FEET TO THE WEST R/W OF NW 34TH STREET AND THE POINT OF BEGINNING, SAID POINT BEING THE P.C. OF A CURVE CONCAVE TO THE NORTHWEST AND HAVING A RADIUS OF 80 FEET, THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID R/W CURVE 87.9 FEET TO THE P.T. OF SAID CURVE, BEING ON THE NORTH R/W OF NW 16TH AVENUE, AND BEING THE P.C. OF A CURVE CONCAVE TO THE NORTHEAST, AND HAVING A RADIUS OF 804.63 FEET, THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID R/W 288.70 FEET TO THE P.T. OF SAID CURVE, THENCE RUN N 62°49'37" W ALONG SAID R/W 325.21 FEET, THENCE RUN N 0°34'22" WEST 220 FEET, THENCE RUN N 89°25'38" EAST 800 FEET TO THE WEST R/W OF NW 34TH STREET, THENCE RUN S 0°34'22" EAST ALONG SAID R/W 410.51 FEET TO THE POINT OF BEGINNING, BEING AND LYING IN THE NE 1/4 OF SECTION 35-T9S-R19E, GAINESVILLE, ALACHUA COUNTY, FLORIDA.

FLOOD ZONE:
 IT IS THE OPINION OF THIS LAND SURVEYOR BASED ON AN INTERPRETATION OF F.L.R.M. PANEL No. 311 OF 840, COMMUNITY PANEL No. "125107 0311 D" THAT THIS PROPERTY IS LOCATED IN FLOOD ZONE "X", (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAN), AND IN FLOOD ZONE "A", (SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, NO BASE FLOOD ELEVATION DETERMINED), MAP EFFECTIVE DATE JUNE 16, 2008.

UNDERGROUND UTILITY NOTE:
 THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN WERE BASED ON ABOVE GROUND FIXTURES, EASILY RECOGNIZABLE FEATURES, AND UTILITY COMPANY MAPS AVAILABLE TO THE SURVEYOR. UNLESS NOTED OTHERWISE ON THE GRAPHIC PORTION OF THIS SURVEY, NO UTILITIES WERE UNCOVERED TO VERIFY THEIR LOCATION.

NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED BY THE SURVEYOR THAT THE LOCATIONS SHOWN REPRESENT THE ACTUAL LOCATIONS OF THOSE UTILITIES, THE UTILITY TYPE, OR THAT NO OTHER UTILITIES EXIST ON THE SITE.

PRIOR TO THE DESIGN OF UTILITY CONNECTIONS, THE PROPOSED CONNECTION POINTS SHOULD BE EXCAVATED AS NECESSARY TO CONFIRM THEIR EXACT LOCATION, DEPTH AND CHARACTERISTICS.

IN ACCORDANCE WITH FLORIDA STATUTE CHAPTER 556, PRIOR TO ANY EXCAVATION, THE EXCAVATOR SHOULD CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770.

*INDIVIDUAL LOTS SANITARY LATERALS AND WATER SERVICE LINES AND IRRIGATION SYSTEMS MAY EXIST THAT ARE NOT SHOWN ON THIS SURVEY.

- SURVEYOR'S NOTES:**
1. SURVEY BASED ON MONUMENTATION FOUND AND ACCEPTED AND ON LAND DESCRIPTION OF RECORD AS PER OFFICIAL RECORDS BOOK 971, PAGE 411 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA.
 2. BEARINGS ARE BASED ON A RECORDED CALL OF NORTH 89°25'38" EAST FOR THE NORTH LINE OF THIS PROPERTY.
 3. VERTICAL DATUM IS BASED ON N.A.S.D. 1988 AS ESTABLISHED BY FLORIDA DEPARTMENT OF TRANSPORTATION VERTICAL CONTROL POINT 775 73 B16
 4. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID UNLESS SIGNED AND SEALED BY THE LAND SURVEYOR IN RESPONSIBLE CHARGE.
 5. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHT-OF-WAYS, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.
 6. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF LOCATIONS AND ELEVATIONS OF UTILITIES PRIOR TO EXCAVATION OR IN-CONSTRUCTION.
 7. NORTH ARROW IS BASED ON BEARING STRUCTURE.
 8. CERTIFICATION IS NOT TRANSFERABLE.
 9. TREE TRUNK DIAMETERS WERE SIZED AT CHEST HEIGHT, AND DIAMETER MAY VARY AT THE BASE OF THE TRUNKS. DO NOT DESIGN STRUCTURES, CURBS AND GUTTERS WITHIN 5 FEET OF LOCATED TREES WITHOUT FIRST CONTACTING THIS SURVEYOR.
 10. THE PURPOSE OF THIS SURVEY IS TO SHOW BOUNDARY INFORMATION, IMPROVEMENTS, AND TOPOGRAPHIC INFORMATION IN THE DESIGNATED AREA AS PER CONTRACT SCOPE OF SERVICES.
 11. THIS SURVEY COMPLIES WITH THE FLORIDA STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 6J-17 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES.

DATE OF FIELD WORK: 08-10-2016, 12-20-2016
 DATE OF DRAWING: 12-21-2016
 DATE OF SIGNATURE: 12-21-2016

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING AND DISTANCE
C1	87.9'(R) 87.35'(F)	80.00'(R) 80.00'(F)	100°05'48"(F)	89.88'(F) S49°38'08"W 78.88'(F)
C2	288.70'(R) 287.87'(F)	804.93'(R) 804.93'(F)	16°57'59"(F)	134.87'(F) N70°47'58"W 288.99'(F)

CERTIFY SURVEY TO:
 JOHN ZONA, III
 ZION EVANGELICAL LUTHERAN CHURCH, INC.

SCALE: 1" = 30'
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PAGE 1 OF 1
 DATE: 12-20-2016
 DRAWN BY: GUY
 FIELD BOOK: 320/50-52; 333/10; 338/10
 SURVEY BY: PROFESSIONAL SURVEYOR & MAPPER F.L.C.E. 5336
 JOB NO. 16518
 ACAD FILE: 16518-1

KRIS ANN GATH P.S.M.
 4605 N.W. 6TH STREET, SUITE H
 GAINESVILLE, FLORIDA 32609
 PHONE: (352) 391-0010
 PHONE: (352) 338-3363
 FAX: (352) 338-1084
 DERENLANDSURVEYING.COM



SCALE @ 1" = 30'