

Sep 18, 2023

Franklin Anciano License & Permit Specialist Edwards Aquifer Protection Program Texas Commission on Environmental Quality 12100 Park 35 Circle Austin, TX 78753 Phone: 512-239-7017 Email: <u>Franklin.Anciano@tceq.texas.gov</u>

RE: Administrative review of the Offices at William Cannon - WPAP

Dear Franklin Anciano.

Thank you kindly for your review of the Water Pollution Abatement Plan. The following comments were received September 18, 2023. The application has been revised, updated and corrected accordingly to address your comments. Responses to the comments are as follows (in blue):

Permanent Stormwater Section (TCEQ-0600)

- Attachment F Construction Plans. Please P.E. sign, seal, and date TSS calculations. ACE Response: TSS calculations have been signed, sealed, and dated.
- Core Data Form (TCEQ-10400) Please sign form. ACE Response: The form has been signed. See page 124.

If you have any questions regarding this update, please do not hesitate to contact our office (512) 306-0018, or TeamH@austincivil.com. Thank you for your review of this project.

Sincerely,

Calvin Weiman, P.E. Austin Civil Engineering



9/19/2023



Water Pollution Abatement Plan Checklist

- Edwards Aquifer Application Cover Page (TCEQ-20705)

- General Information Form (TCEQ-0587)

Attachment A - Road Map Attachment B - USGS / Edwards Recharge Zone Map Attachment C - Project Description

Geologic Assessment Form (TCEQ-0585)

Attachment A - Geologic Assessment Table (TCEQ-0585-Table) Attachment B - Stratigraphic Column Attachment C - Site Geology Attachment D - Site Geologic Map(s)

- Water Pollution Abatement Plan Application Form (TCEQ-0584)

Attachment A - Factors Affecting Surface Water Quality Attachment B - Volume and Character of Stormwater Attachment C - Suitability Letter from Authorized Agent (if OSSF is proposed) Attachment D - Exception to the Required Geologic Assessment (if requested) Site Plan

- Temporary Stormwater Section (TCEQ-0602)

Attachment A - Spill Response Actions Attachment B - Potential Sources of Contamination Attachment C - Sequence of Major Activities Attachment D - Temporary Best Management Practices and Measures Attachment E - Request to Temporarily Seal a Feature (if requested) Attachment F - Structural Practices Attachment G - Drainage Area Map Attachment H - Temporary Sediment Pond(s) Plans and Calculations Attachment I - Inspection and Maintenance for BMPs Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

- Permanent Stormwater Section (TCEQ-0600)

Attachment A - 20% or Less Impervious Cover Waiver (if requested for multi-family, school, or small business site) Attachment B - BMPs for Upgradient Stormwater Attachment C - BMPs for On-site Stormwater Attachment D - BMPs for Surface Streams Attachment E - Request to Seal Features (if sealing a feature) Attachment F - Construction Plans Attachment G - Inspection, Maintenance, Repair and Retrofit Plan Attachment H - Pilot-Scale Field Testing Plan (if proposed) Attachment I -Measures for Minimizing Surface Stream Contamination

- Agent Authorization Form (TCEQ-0599), if application submitted by agent
- Application Fee Form (TCEQ-0574)
- Check Payable to the "Texas Commission on Environmental Quality"
- Core Data Form (TCEQ-10400)

Texas Commission on Environmental Quality Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with <u>30 TAC 213</u>.

Administrative Review

1. <u>Edwards Aquifer applications</u> must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
- 3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
- 4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

- 5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
- 6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

- 1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
- 2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

- 3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
- 4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: The Offices at William Cannon				2. Regulated Entity No.:				
3. Customer Name: Jubilee Christian Center				4. Customer No.:				
5. Project Type: (Please circle/check one)	New	Modification		Extension		Exception		
6. Plan Type: (Please circle/check one)	WPAP CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-r	Non-residential			8. Site (acres):		6.37
9. Application Fee:	\$5,000	10. Permanent B			BMP(s): Partial Sedimentation/Biofiltr Irrigation System.		ntation/Biofiltration Pond/ m.	
11. SCS (Linear Ft.):	N/A	12. AST/UST (No.			o. Tan	. Tanks): N/A		
13. County:	Travis	14. W	14. Watershed:				Williamson Cre	ek

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region					
County:	Hays	Travis	Williamson		
Original (1 req.)		_ <u>X</u> _			
Region (1 req.)		X			
County(ies)		X			
Groundwater Conservation District(s)	Edwards Aquifer Authority Barton Springs/ Edwards Aquifer Hays Trinity Plum Creek	<u>X</u> Barton Springs/ Edwards Aquifer	NA		
City(ies) Jurisdiction	Austin Buda Dripping Springs Kyle Mountain City San Marcos Wimberley Woodcreek	<u>X</u> _Austin Bee Cave Pflugerville Rollingwood Round Rock Sunset Valley West Lake Hills	Austin Cedar Park Florence Georgetown Jerrell Leander Liberty Hill Pflugerville Round Rock		

	Si	an Antonio Region			
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)		_			
Region (1 req.)					
County(ies)			_		
Groundwater Conservation District(s)	Edwards Aquifer Authority Trinity-Glen Rose	Edwards Aquifer Authority	Kinney	EAA Medina	EAA Uvalde
City(ies) Jurisdiction	Castle Hills Fair Oaks Ranch Helotes Hill Country Village Hollywood Park San Antonio (SAWS) Shavano Park	Bulverde Fair Oaks Ranch Garden Ridge New Braunfels Schertz	NA	San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Calvin J. Weiman

Print Name of Customer/Authorized Agent

Cali J. Wei

08/09/2023

Signature of Customer/Authorized Agent

Date

**FOR TCEQ INTERNAL USE ONLY	**			
Date(s)Reviewed:	Γ	Date Administratively Complete:		te:
Received From:	С	Correct Number of Copies:		
Received By:	Γ	Distribution Date:		
EAPP File Number:	С	Complex:		
Admin. Review(s) (No.):	N	No. AR Rounds:		
Delinquent Fees (Y/N):	R	Review Time Spent:		
Lat./Long. Verified:	S	SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):	я Т	lee	Payable to TCEQ (Y	/N):
Core Data Form Complete (Y/N):	C	Check: Signed (Y/N): Less than 90 days old (Y/N):		
Core Data Form Incomplete Nos.:				d (Y/N):

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Calvin J. Weiman

Date: 08/09/2023

Signature of Customer/Agent:

Calin J. Wei

Project Information

- 1. Regulated Entity Name: The Offices at William Cannon
- 2. County: Travis
- 3. Stream Basin: Williamson Creek
- 4. Groundwater Conservation District (If applicable): Barton Springs/Edwards Aquifer
- 5. Edwards Aquifer Zone:

Recharge Zone

6. Plan Type:

	AST
SCS	🗌 UST
Modification	Exception Request

7. Customer (Applicant):

Contact Person: <u>Jimmy Seal</u> Entity: <u>Jubilee Christian Center</u> Mailing Address: <u>2909 W William Cannon Dr</u> City, State: <u>Austin, TX</u> Telephone: <u>(512) 627-3050</u> Email Address: <u>jseal777@gmail.com</u>

Zip: <u>78745</u> FAX: ____

8. Agent/Representative (If any):

9. Project Location:

The project site is located inside the city limits of <u>Austin</u>.

The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.

- The project site is not located within any city's limits or ETJ.
- 10. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

3101 W WILLIAM CANNON DR, AUSTIN, TEXAS 78745

- 11. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
- 12. Attachment B USGS / Edwards Recharge Zone Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

 \boxtimes Project site boundaries.

USGS Quadrangle Name(s).

Boundaries of the Recharge Zone (and Transition Zone, if applicable).

Drainage path from the project site to the boundary of the Recharge Zone.

13. The TCEQ must be able to inspect the project site or the application will be returned. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

Survey staking will be completed by this date: _____

- 14. Attachment C Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
 - Area of the site
 Offsite areas
 Impervious cover
 Permanent BMP(s)
 Proposed site use
 Site history
 Previous development
 Area(s) to be demolished
- 15. Existing project site conditions are noted below:
 - Existing commercial site
 Existing industrial site
 Existing residential site
 Existing paved and/or unpaved roads
 Undeveloped (Cleared)
 Undeveloped (Undisturbed/Uncleared)
 Other: _____

Prohibited Activities

- 16. I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:
 - (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
 - (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
 - (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
 - (4) The use of sewage holding tanks as parts of organized collection systems; and
 - (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
 - (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.
- 17. I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:
 - (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
 - (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

TCEQ-0587 (Rev. 02-11-15)

(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

- 18. The fee for the plan(s) is based on:
 - For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
 - For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
 - For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
 - A request for an exception to any substantive portion of the regulations related to the protection of water quality.
 - A request for an extension to a previously approved plan.
- 19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

 Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
 San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

- 20. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 21. No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.









General Information Form

Attachment C: Project Description

The site consists of lots 52, 53, 54, 55 which are legally described as Lot 52 Less N35FT Av Western Hills, Lot 53 Less N30FT Av Western Hills +.261AC Vacated ROW, Lot 54 Less N30FT Western Hills +.261AC Vacated ROW, LOT 55 Less N30FT Western Hills, respectively, for a total of 6.37 acres.

The site is off W William Cannon Drive between West Gate Blvd and Brodie Ln. The existing site is currently undeveloped, a portion of off-site drainage is flowing through the site. In general, the site drains from the southeast property corner and towards the northwest property corner.

The proposed development of the site will include a 18,381 square-foot office building with parking, drives, detention pond, water quality pond, waterline, and wastewater force main (FM). The on-site developed stormwater drains via sheet flow to a proposed pond inflow structure to discharge into the detention and water quality pond. The detention pond is sized to hold stormwater runoff rates below the predeveloped runoff for all storm events 2, 10, 25 and 100-year based on NOAA ATLAS 14 stormwater precipitation.

The lots are located within the Barton Springs Zone (BSZ); therefore, the design will require two SCMs in series, in this case a Partial Sedimentation/Biofiltration Pond and Irrigation System. The proposed system will treat a total of 3.35 acres of drainage basin areas which is comprised of 2.81 acres of on-site drainage area and 0.54 acres of off-site drainage area, although all of the impervious cover proposed within the development is 1.42 acres, the water quality system is designed to treat the volume of water calculated for the maximum impervious cover allowed of 2.16 acres (64.20% of drainage basin areas to be treated), being required to treat 3,163 cubic feet of water, the proposed system will over-treat according to TCEQ requirements, providing a water quality volume of 19,619 cubic feet.

TCEQ GEOLOGIC ASSESSMENT

FOUR-LOT PROPERTY 3101 W. WILLIAM CANNON DRIVE AUSTIN, TRAVIS COUNTY, TEXAS 78745

Prepared For

Austin Civil Engineering, Inc. 9501B Menchaca Road #220 Austin, Texas 78748

Prepared By

M. Trojan & Associates Environmental Consultants P.O. Box 338 Thorndale, Texas 76577

MTA Project No. ACEI-23-012

August 21, 2023

M. TROJAN & ASSOCIATES Environmental Consultants

August 21, 2023

Amador Rojas Austin Civil Engineering, Inc. 9501B Menchaca Road #220 Austin, Texas 78748

Subject: Report of TCEQ Geologic Assessment Four-Lot Property 3101 W. William Cannon Drive Austin, Travis County, Texas 78745 MTA Project No. ACEI-23-012

Mr. Rojas:

M. Trojan & Associates is pleased to submit this report of a Texas Commission on Environmental Quality (TCEQ) *Geologic Assessment* for the above referenced property. This *Geologic Assessment* was performed in accordance with the TCEQ requirements and instructions for completing TCEQ Form 0585.

I appreciate the opportunity to assist you in your environmental matters associated with the subject property. Should you have any questions or require additional information, please feel free to contact me at (512) 917-3695, or forward an email to mtrojan0316@gmail.com.

Respectfully,

Michael Trojan, PG M. TROJAN & ASSOCIATES



Certified Professional Geoscientist #1109 (TX)

c: MTA Project File ACEI-23-012

M. TROJAN & ASSOCIATES P.O. Box 338, Thorndale, Texas 76577 (512) 917-3695 / mtrojan0316@gmail.com

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4.0	GEOLIC ASSESSMENT LIMITATIONS	7

ATTACHMENTS

ATTACHMENT A:	GEOLOGIC ASSESSMENT TABLE
ATTACHMENT B:	STRATIGRAPHIC COLUMN
ATTACHMENT C:	SITE GEOLOGY AND FEATURES
ATTACHMENT D:	SITE GEOLOGIC MAPS
	Figure 1 – Site Location Map Figure 2 – Site Aerial Photograph

- Figure 3 Surface Water Hydrology
- Figure 4 Site Soils Map
- Figure 5 General Geologic Map
- Figure 6 Site Geologic Map
- ATTACHMENT E: SITE PHOTOGRAPHS

1.0 TCEQ FORM 0585

Geologic Assessment Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge/Transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist:	Michael Trojan, PG	Telephone:	(512) 917-3695
Representing:	M. Trojan & Associates	Fax:	

Signature of Geologist:



Michael Trojan, PG Certified Professional Geoscientist #1109 (TX)

Regulated Entity Name:	Four-Lot Property			
	3101 W. William Cannon Road, Austin, Travis County,			
	Texas 78745			

Project Information

- 1. Date(s) Geologic Assessment was performed: August 15, 2023
- 2. Type of Project:

Х	WPAP	AST
	SCS	UST

3. Location of Project:

XRecharge ZoneTransition ZoneContributing Zone within the Transition Zone

- 4. X Attachment A Geologic Assessment Table. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
- 5. X Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map (refer to Attachment D).

Table 1 – Soil Units, Infiltration, Characteristics and Thickness

Soil Units, li Characteristics	nfiltration & Thicknes	* Soil Group Definitions (Abbreviated)	
Soil Name Group* Thickness (feet)		A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.	
Ferris-Heiden complex, 8- 20% slopes, severely eroded (FhF3)	D	5.0+	B. Soils having a <u>moderate</u> <u>infiltration</u> rate when thoroughly wetted. C. Soils having a slow infiltration
Heiden clay, 3-5% slopes, eroded (HeC2)	D	6.7+	rate when thoroughly wetted. D. Soils having a <u>very slow</u>
Eckrant very stony clay, 5-18% slopes (TaD)	D	up to 0.7	wetted.

6.	Х	Attachment B – Stratigraphic Column. A stratigraphic column showing formations,
		members, and thicknesses is attached. The outcropping unit, if present, should be
		at the top of the stratigraphic column. Otherwise, the uppermost unit should be at
		the top of the stratigraphic column.

- 7. X Attachment C Site Geology and Features. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
- 8. X Attachment D Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan.

Applicant's Site Plan Scale:	unknown	
Site Geologic Map Scale:	1'' = 200'	
Site Soils Map Scale (if more	than 1 soil type):	1'' = 200'

- 9. Method of collecting positional data:
 - X Global Positioning System (GPS) technology.

Other method(s). Please describe method of data collection:

- 10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
- 11. X Surface geologic units are shown and labeled on the Site Geologic Map.
- 12. X Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
 - Geologic or manmade features were not discovered on the project site during the field investigation.
- 13. X The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section
 - There are <u>0</u> (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply).

The wells are not in use and have been properly abandoned.

	The wells are not in use and will be properly abandoned.
	The wells are in use and comply with 16 TAC Chapter 76.
Х	There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

15. X Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

2.0 OVERVIEW

M. Trojan & Associates was retained to conduct a Geologic Assessment for a four-lot property located at 3101 W. William Cannon Drive in Austin, Travis County, Texas 78745 (refer to Figures 1 and 2 of Attachment D). All aspects of the Geologic Assessment were conducted by Mr. Michael Trojan, PG (Certified Professional Geoscientist #1109 in Texas), and the assessment was performed in accordance with Texas Commission on Environmental Quality (TCEQ) requirements and instructions for completing TCEQ Form 0585. The assessment included reconnaissance of the entire property as well as bordering portions of all neighboring properties.

Based on information obtained from the TCEQ, the study area is located on the Edwards Aquifer Recharge Zone. Accordingly, the objective of the *Geologic Assessment* was to identify any naturally occurring geologic (karst) or manmade features that may significantly contribute to recharge of the subsurface. The Edwards Aquifer rules define sensitive features as:

> "... those that have potential for interconnectedness between the surface and the Edwards Aquifer and where rapid infiltration to the subsurface may occur."

The scope of the Geologic Assessment included the following general components:

- Review of published soils and geologic/hydrogeologic information;
- Field evaluation of topographic features;
- Field evaluation of soil types and horizons, relative thicknesses, and hydrologic characteristics (visual only);
- General review of the subsurface geologic units beneath the property as well as geologic units exposed at ground surface (if visible);
- Field evaluation of geologic conditions to determine the presence or absence of caves, solution cavities, solution-enlarged fractures, faults, other natural bedrock features, sinkholes, swallets or swallow holes in drainage features, non-karst closed depressions, manmade features in bedrock, and any other natural or manmade features, and evaluation of such features with respect to their potential ability to convey infiltrating surface water to the underlying subsurface; and
- Preparation of TCEQ Form 0585 for presentation of the findings of this assessment.

3.0 GENERAL PROPERTY DESCRIPTION AND SITE DEVELOPMENT

3.1 Study Area

The study area consists of four lots that together comprise approximately 6.37 acres of undeveloped, densely-wooded land on the south side of W. William Cannon Drive and approximately 0.33 miles northwest of the W. William Cannon Drive and West Gate Blvd. intersection (refer to Figures 1 and 2 of Attachment D and photographs included in Attachment E). As of the writing of this *Geologic Assessment*, there are no improvements on the property.

3.2 Proposed Site Development

As of the writing of this Geologic Assessment, the central portion of the property is proposed to be developed as an office building complex, including an office building and paved driveways and parking areas.

3.3 Previously Published Reports

No previously published, site-specific technical reports were reviewed as part of this Geologic Assessment.

4.0 GEOLIC ASSESSMENT LIMITATIONS

This Geologic Assessment was conducted in accordance with rules and guidelines set forth by the TCEQ, as well as consistent with standard methods and practices generally employed by professionals engaged in conducting karst assessments. Still, the scope of the Geologic Assessment presents certain limitations. The primary limitations include:

- The field reconnaissance is conducted to effectively identify the geologic conditions/features at the subject property. However, certain site conditions may render features undetectable as a result of obstruction by: (1) soil cover, (2) very dense, inaccessible vegetation, (3) manmade cover including, but not limited to driveways, concrete slabs, soil and debris piles/mounds, and/or (4) stormwater runoff ground cover following significant rainfall events.
- 2. The scope of the Geologic Assessment does not include identification of features that may be discovered at the time of site development during excavation, trenching, grading and/or leveling.
- 3. While this Geologic Assessment is confident of the identification of karst features, or lack thereof, the regulatory community reserves the right to conduct a reconnaissance of the study area. At times, regulatory field inspectors may identify additional potential karst features that, in their professional opinion, may require consideration in terms of proposed development on the study area. In this event, the author of this Geologic Assessment and the developer are provided the opportunity to conduct additional field investigation of such features, including employment of certain invasive methodologies (e.g., excavation), to either confirm or refute the field findings of the regulatory field inspectors.

ATTACHMENT A GEOLOGIC ASSESSMENT TABLE

GEOLOGIC ASSESSMENT TABLE						PROJECT NAME: Four-Lot Property, 3101 W. William Cannon Drive, Austin, Texas 78745														
LOCATION						FEATURE CHARACTERISTICS						EVALUATION		N PHYSICAL		SETTING				
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9		10	1	1	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NSIONS (FEET)	TREND DO CONTRACTOR (DEGREES)		DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY	CATCHMI (ACI	ENT AREA RES)	TOPOGRAPHY
						х	Y	Z		10						<40	<u>>40</u>	<1.6	>1.6	
ONSITE																				
MB-1	30.210403	-97.823384	MB	30	Kdg	20	25						Ν	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	streambed
MB-2	30.210213	-97.823521	MB	30	Kdg	12	12						Ν	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	streambed
OFFSITE																				
MB-3	30.210095	-97.823753	MB	30	Kdg	12	20						Ν	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	streambed
MB-4	N/A	N/A	MB	30	Kdg	unk	unk	unk					Х	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	hillside
MB-5	30.210586	-97.823306	MB	30	Kdg	12	100						Х	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	hillside
						-		-												
						-		-												
* DATUM	:					i														
2A TYPE		TYPE		21	BPOINTS	8A INFILLING														
С	Cave				30	N None, exposed bedrock														
SC	Solution ca	avity			20	C Coarse - cobbles, breakdown, sand, gravel														
SF	Solution-e	nlarged frac	ture(s)		20	O Loose or soft mud or soil, organics, leaves, sticks, dark colors														
F	Fault				20	F Fines, compacted clay-rich sediment, soil profile, gray or red colors														
0	Other natu	iral bedrock	features		5	V Vegetation. Give details in narrative description														
MB	Manmade	feature in b	edrock		30	FS Flowstone, cements, cave deposits														
SW	Swallow he	ole			30	X Other materials														
SH	Sinkhole				20															
CD	Non-karst	closed dep	ression		5	12 TOPOGRAPHY														
Z	Zone, clus	tered or alig	ned featu	ires	30	Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed														

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.



Date: August 21, 2023

hitre Day

Sheet 1 of 1

ATTACHMENT B STRATIGRAPHIC COLUMN

SYSTEM	SERIES	GROUP	FORMATION	LITHOLOGY/ THICKNESS					
QUATERNARY				TERRACE AND ALLUVIUM SAND, SILT, CLAY, AND GRAVE THICKNESS NOT REPORTED	L				
		AUSTIN		CHALK, MARL, AND LIMESTONE 325–420 FEET THICK					
	UPPER CRETACEOUS (GUI FIAN)	EAGLE FORD	EAGLE FORD	SHALE AND SILTY LIMESTONE TO CALCAREOUS SILTSTONE 25–65 FEET THICK					
			BUDA	LIMESTONE UP TO 45 FEET THICK					
CRETACEOUS			DEL RIO	CLAY 40–70 FEET THICK					
			GEORGETOWN	LIMESTONE AND MARL 30–80 FEET THICK					
	LOWER CRETACEOUS (COMANCHEAN)	LOWER CRETACEOUS (COMANCHEAN)	LOWER CRETACEOUS (COMANCHEAN)	LOWER CRETACEOUS (COMANCHEAN)	FREDERICKSBURG	EDWARDS	LIMESTONE AND DOLOSTONE 60–350 FEET THICK		
	х , , , , , , , , , , , , , , , , , , ,		COMANCHE PEAK	LIMESTONE AND MARL UP TO 80 FEET THICK	THE OF TEXAS				
			WALNUT FORMATION	LIMESTONE AND MARL UP TO 130 FEET THICK					
			PALUXY SAND	SAND UP TO 10 FEET THICK	GEOLOGY No. 1109				
Geologic ur	it that directly unde	erlies the subject prope	erty		NONAL & GEOS				
ROJAN & A ronmental Co 30x 338 ndale Texas 76	SSOCIATES nsultants		Scale: Date: Project: MTA Project:	No ScaleSTRATIGRAPHAugust 21, 2023FOUR-LOT PFTCEQ Geologic Assessment3101 W. WILLIAM CACEI-23-012AUSTIN, TRAVIS COUNT	IC COLUMN ROPERTY ANNON DRIVE NTY, TEXAS 78745				

ATTACHMENT C SITE GEOLOGY AND FEATURES

TOPOGRAPHY AND SURFACE WATER HYDROLOGY

The majority of the study area slopes toward the northwest (refer to Figure 3 of Attachment D). Topographic elevations on the study area range between approximately 763 and 712 feet above mean sea level (msl), with the highest elevations located at/near the southeast property corner and the lowest elevations within a stream bed near the northwest corner (at W. William Cannon Drive).

As is depicted on refer to Figure 3 of Attachment D), majority of storm water runoff generated on the study area flows to an onsite stream located on the western-most part of the property (Note: Some runoff generated on the eastern-most part of the property discharges directly to W. William Cannon Drive). The onsite stream segment is described as follows:

The stream on the western-most part of the study area qualifies as an intermittent stream. The stream exhibits well-defined bed and bank features, as well as an approximate ordinary high water mark (OHWM) (refer to Figure 3 of Attachment D and photograph in Attachment E). The stream segment has been improved at two locations with concrete stream bed/bank liners. On the day of the site reconnaissance of this *Geologic Assessment*, the stream was observed to be dry. The stream exhibits a densely-wooded riparian zone.

The study area lies in the Kincheon Branch of the Williamson Creek watershed. According to review of a FEMA Flood Insurance Rate Map, Travis County GIS and COA GIS, no portion of the study area lies within a floodplain; however, the onsite stream segment exhibits a designated CWQZ and WQTZ (refer to Figure 3 of Attachment D).

SOILS

According to the Soil Survey of Travis County, Texas, the soils that are reported to cover the study area are as follows (also refer to Figure 4 of Attachment D for soil type locations):

Ferris-Heiden complex, 8-12% slopes, severely eroded (FhF3)
Typical Profile: H1 - 0 to 6 inches: clay
H2 - 6 to 36 inches: clay
H3 - 36 to 60 inches: silty clay
Hydrologic Soil Group: D
Heiden clay, 3-5% slopes, eroded (HeC2)
Typical Profile: A - 0 to 13 inches: clay
Bss - 13 to 22 inches: clay
Bkss - 22 to 58 inches: clay

Hydrologic Soil Group:	CBdk - 58 to 80 inches: clay D
Eckrant very stony clay, 5-1 Typical Profile:	8% slopes (TaD) A1 - 0 to 5 inches: very stony clay A2 - 5 to 8 inches: extremely flaggy clay
Hydrologic Soil Group:	R - 6 10 50 Incries, bedrock D

Based on the *Soil Survey* and as is depicted on Figure 4 of Attachment D, the Ferris-Heide complex and Heiden clay soils cover the central and southeastern parts of the study area, while the Eckrant soils cover the northwestern third of the property. Shallow probes/excavations were made at various locations across the property and observations of the soil characteristics confirmed the presence of soils similar to those described in the *Soil Survey*. With the exception of the relatively thin Eckrant soils, soils across the study area were observed to be thick.

GEOLOGY

The study area is reported to be underlain by the Del Rio clay and Georgetown Formation (Kdg) (refer to the stratigraphic column in Attachment B and Figure 5 of Attachment D). The Del Rio clay and Georgetown Formation are described in geologic publications as follows:

Del Rio Formation

The Del Rio Formation (commonly referred to as the Del Rio Clay) is overlain by the Buda Limestone (Kbu) and underlain by the Georgetown Formation (Kgt). The Del Rio Formation is comprised of medium gray to blue-gray clay with thin beds of highly calcareous sandstone and siltstone. A complete section of the Del Rio Formation may range up to approximately 70 feet in thickness.

Georgetown Formation

The Georgetown Formation (Kgt) consists of limestone and marl (mostly limestone). The limestone is light gray, fine grained, nodular, and moderately indurated. Some limestone is white, hard, brittle, and thick bedded. The Georgetown also includes some shale that is light gray to yellowish gray, marly, and soft. The thickness is reported to range 30 to 80 feet, and the formation thins southward.

Given the consistent soil cover across the entire study area, no bedrock was observed at ground surface on the interior of the property. The exceptions to this include exposed bedrock (road cut) along the western extent of the north property boundary – along W. William Cannon Drive – and along parts of the bed of the onsite intermittent stream on the western-most of the property (refer to photographs in Attachment E).

SENSITIVE KARST AND MANMADE FEATURES

Onsite Features

The field reconnaissance of the study area included search for and identification of sensitive karst and manmade features, as defined by TCEQ, and to note potential ground recharge points that may be associated with such features. The field reconnaissance entailed walking 25-foot spaced transects across the entire study area. The results of the reconnaissance are provided below.

<u>Caves</u>

Based on TCEQ criteria, a cave is a natural underground open (or filled) space formed by dissolution of limestone that is large enough for an average-sized person to enter. When a surface cave opening is encountered, then the subsurface extent of the cave is relevant in terms of subsurface recharge.

Based on observations made across the entire study area, no cave openings/caves were identified.

Solution Cavities

Based on TCEQ criteria, a solution cavity is a natural cavity or depression formed as a result of dissolution of limestone. This category is designed to capture features that are not large enough for a normal-sized person to enter but appear to be part of a system of interconnected voids that connect the surface with the subsurface. The size and geometry of the feature is defined by in-place bedrock. Solution cavities also include areas where dissolution has increased the opening size and permeability along bedding planes as well as fractures.

Based on observations made across the entire study area, no solution cavities were identified.

Solution-Enlarged Fractures

Based on TCEQ criteria, a solution-enlarged fracture is one that shows evidence of being locally enlarged by dissolution of limestone, recognized by measurable (larger than hairline) openings and miss-matched fracture surface shapes.

Based on observations made across the entire study area, no solutionenlarged fractures were identified.

<u>Faults</u>

Based on TCEQ criteria, a fault is defined as a fracture along which there has been displacement of one side of the fracture relative to the other side. Displaced geologic materials and/or an abrupt change in surface topography can both be indicative of the presence of a fault.

Based on observations made across the entire study area, no faults were identified. Moreover, information obtained from technical publications reviewed as part of this *Geologic Assessment* suggests that no known faults are located within the study area or in the close proximity.

Swallet or Swallow Holes

Based on TCEQ criteria, a swallet or swallow hole may include a focused recharge feature in an intermittent drainage or stream in karst terrain. Some swallow holes have a surface expression, for example, a cave opening or formation of a whirlpool in the stream at high flow. The general case is that fine soil and sediment as well as gravel are deposited over the bedrock feature during falling stages of flow, thereby intermittently or frequently obscuring the feature.

Based on observations made across the entire study area, no swallet or swallow holes were identified.

Sinkholes

Based on TCEQ criteria, a sinkhole represents a shallow, broad topographic depression formed in response to karst processes. Sinkholes are pragmatically defined as features greater than six (6) feet in diameter with more than six (6) inches of topographic relief. Sinkholes are usually circular in map view. In cross section they may be subtle swales or funnel-shaped pits and some have exposed rimrock at the perimeter. The presence of a sinkhole implies that processes including collapse, subsidence, and soil sapping over geologic time have caused the land surface to sink below the surrounding area.

Based on observations made across the entire study area, no sinkholes were identified.

Other Natural Bedrock Features

Based on TCEQ criteria, other natural bedrock features include vuggy rock and reef deposits that may contain large holes or vugs.

Based on observations made across the entire study area, no other natural bedrock features were identified.

Non-karst Closed Depressions

Based on TCEQ criteria, a non-karst closed depression is a natural or nonnatural topographic depression that is not formed by karst processes and is not bedrock floored. A feature larger than six (6) feet in at least one direction and with six (6) inches or more of topographic relief should be considered as a feature.

Based on observations made across the entire study area, no non-karst closed depressions were identified.

<u>Zones</u>

Based on TCEQ criteria, a zone is an area in which any type of karst feature occurs along a trend or in a cluster. Clustered or aligned features are more likely to be an indicator of an integrated flow system at depth than isolated features. Alignment is expected in areas where conduit flow is strongly influenced by structurally controlled fractures.

Based on observations made across the entire study area, no zones were identified.

Manmade Features in Bedrock

Based on TCEQ criteria, manmade features in bedrock may include water wells, sanitary sewer lines, storm sewer lines, trenches, quarries, and other cultural features that intersect bedrock and can potentially increase the rate of recharge to the subsurface.

Based on observations made across the entire study area, the following manmade features in bedrock were identified:

Onsite Manmade Feature in Bedrock MB-1

Latitude:	30.210403
Longitude:	-97.823384
Dimensions:	20' X 25'

Onsite Feature MB-1 represents a concrete stream bed liner within the onsite intermittent stream on the western-most part of the study area (refer to the Geologic Assessment Table in Attachment A, Figure 6 of Attachment D and photograph in Attachment E).

The liner is engineered and installed in bedrock that presumably showed no evidence of karst features during the installation process. Therefore, it is assessed that the feature is not significant in the potential to increase the rate of recharge to the subsurface. It is further assessed that this feature does not present an environmental issue with respect to development on the property.

Onsite Manmade Feature in Bedrock MB-2

Latitude:	30.210213
Longitude:	-97.823521
Dimensions:	12' X 12'

Onsite Feature MB-2 represents a concrete weir and stream bed liner within the onsite intermittent stream on the western-most part of the study area (refer to the Geologic Assessment Table in Attachment A, Figure 6 of Attachment D and photograph in Attachment E).

The weir and liner are engineered and installed in bedrock that presumably showed no evidence of karst features during the installation process. Therefore, it is assessed that the feature is not significant in the potential to increase the rate of recharge to the subsurface. It is further assessed that this feature does not present an environmental issue with respect to development on the property.

Offsite Features

The field reconnaissance also included inspection of neighboring properties a distance of approximately 200 feet (as practical) from all boundaries of the study area for identification of offsite sensitive karst and/or manmade features in bedrock that could be deemed as significant in terms of development on the study area. The following offsite features were identified:
Offsite Manmade Feature in Bedrock MB-3

Latitude:	30.210095
Longitude:	-97.823753
Dimensions:	12' X 20'

Onsite Feature MB-3 represents a concrete stream bed liner within the offsite portion of the intermittent stream on the western-most part of the study area (refer to the Geologic Assessment Table in Attachment A, Figure 6 of Attachment D and photograph in Attachment E).

The liner is engineered and installed in bedrock that presumably showed no evidence of karst features during the installation process. Therefore, it is assessed that the feature is not significant in the potential to increase the rate of recharge to the subsurface. It is further assessed that this feature does not present an environmental issue with respect to development on the property.

Offsite Manmade Feature in Bedrock MB-4

Latitude: N/A Longitude: N/A Dimensions: N/A

Features represented by offsite Feature MB-4 qualify as manmade features in bedrock. The features include any/all underground infrastructure that has been installed along the W. William Cannon Drive roadway (refer to Geologic Assessment Table in Attachment A and Figure 6 of Appendix D). These features are engineered and represent fully-enclosed wet and dry lines (Note: This assessment has no knowledge of the installation details).

The infrastructure is installed in bedrock that presumably showed no evidence of karst features during the installation process. Therefore, it is assessed that the underground infrastructure is not significant in the potential to increase the rate of recharge to the subsurface. It is further assessed that the features do not present an environmental issue with respect to development on the property.

Offsite Manmade Feature in Bedrock MB-5

Latitude:	30.210586
Longitude:	-97.823306
Dimensions:	12' X 100'

Offsite Feature MB-5 qualifies as a manmade feature in bedrock and represents an underground concrete storm water culvert that crosses

beneath W. William Cannon Drive (refer to Geologic Assessment Table in Attachment A, Figure 6 of Appendix D and photograph in Attachment E).

The feature is installed in bedrock that presumably showed no evidence of karst features during the installation process. Therefore, it is assessed that the underground infrastructure is not significant in the potential to increase the rate of recharge to the subsurface. It is further assessed that the feature will not be affected by future development on the tract.

POTENTIAL FOR FLUID MOVEMENT TO THE SUBSURFACE

Based on review of available information and visual observations made during the field reconnaissance, this *Geologic Assessment* presents the following observations regarding the potential for recharge of the subsurface within the study area:

- Characteristics of soils that cover the study area are the primary factors that influence potential subsurface recharge on the property. The presence of Ferris-Heiden, Heiden and Eckrant soils with reported very slow permeability suggests overall very slow recharge potential to the subsurface.
- No "defined" karst recharge points with focused recharge potential were observed to be located on the study area.

ATTACHMENT D SITE GEOLOGIC MAPS





M. TROJAN & ASSOCIATES Environmental Consultants

P.O. Box 338 Thorndale, Texas 76577 (512) 917-3695 Scale: / Date: / Project: / MTA Project: /

1" = 200' (approx.) August 21, 2023 TCEQ Geologic Assessment :: ACEI-23-012

FIGURE 2

SITE AERIAL PHOTOGRAPH

FOUR-LOT PROPERTY 3101 W. WILLIAM CANNON DRIVE AUSTIN, TRAVIS COUNTY, TEXAS 78745





M. TROJAN & ASSOCIATES

Environmental Consultants

P.O. Box 338 Thorndale, Texas 76577 (512) 917-3695

Scale: Date: Project: MTA Project:

1" = 200' (approx.) August 21, 2023 TCEQ Geologic Assessment ACEI-23-012

FIGURE 4

SITE SOILS MAP

FOUR-LOT PROPERTY 3101 W. WILLIAM CANNON DRIVE AUSTIN, TRAVIS COUNTY, TEXAS 78745



ONSITE FEATURES

MB-1: Manmade feature in bedrock (concrete stream bed liner)

MB-2: Manmade feature in bedrock (concrete stream weir and bed liner)

OFFSITE FEATURES (within 200')

MB-3: Manmade feature in bedrock (concrete stream bed liner)

MB-4: Area of manmade features in bedrock (underground infrastructure)

MB-5: Manmade feature in bedrock (underground culvert)





Kdg – Del Rio Clay and Georgetown Formation Refer to Attachment C for feature details.

M. TROJAN & ASSOCIATES

Environmental Consultants

P.O. Box 338 Thorndale, Texas 76577 (512) 917-3695

NOTES

Scale: Date: Project: MTA Project 1" = 200' (approx.) August 21, 2023 TCEQ Geologic Assessment ACEI-23-012

NO ONSITE OR OFFSITE KARST FEATURES IDENTIFIED

FIGURE 6

SITE GEOLOGIC MAP

FOUR-LOT PROPERTY 3101 W. WILLIAM CANNON DRIVE AUSTIN, TRAVIS COUNTY, TEXAS 78745

ATTACHMENT E SITE PHOTOGRAPHS

PHOTOGRAPHIC REPORTING DATA SHEET [PHOTOGRAPH 1]



Project:	TCEQ Geologic Assessment
Site:	Four-Lot Property
Location:	3101 W. William Cannon Road, Austin, Travis County, Texas 78745
Description:	View of the northern-most part of the study area along W. William Cannon Drive.

PHOTOGRAPHIC REPORTING DATA SHEET [PHOTOGRAPH 2]



Project:	TCEQ Geologic Assessment
Site:	Four-Lot Property
Location:	3101 W. William Cannon Road, Austin, Travis County, Texas 78745
Description:	View of typical landscape on the interior of the study area.

PHOTOGRAPHIC REPORTING DATA SHEET [PHOTOGRAPH 3]



Project:	TCEQ Geologic Assessment
Site:	Four-Lot Property
Location:	3101 W. William Cannon Road, Austin, Travis County, Texas 78745
Description:	Second view of typical landscape on the interior of the study area.

PHOTOGRAPHIC REPORTING DATA SHEET [PHOTOGRAPH 4]



Project:	TCEQ Geologic Assessment
Site:	Four-Lot Property
Location:	3101 W. William Cannon Road, Austin, Travis County, Texas 78745
Description:	View of a segment of the intermittent stream on the western-most part of the study area.

PHOTOGRAPHIC REPORTING DATA SHEET [PHOTOGRAPH 5]



Project:	TCEQ Geologic Assessment
Site:	Four-Lot Property
Location:	3101 W. William Cannon Road, Austin, Travis County, Texas 78745
Description:	View of typical bedrock outcrop (road cut) along the west part of the north property boundary along W. William Cannon Drive.

PHOTOGRAPHIC REPORTING DATA SHEET [PHOTOGRAPH 6]



Project:	TCEQ Geologic Assessment
Site:	Four-Lot Property
Location:	3101 W. William Cannon Road, Austin, Travis County, Texas 78745
Description:	View of onsite manmade feature in bedrock MB-1 and offsite manmade feature in bedrock MB-5.

PHOTOGRAPHIC REPORTING DATA SHEET [PHOTOGRAPH 7]



Project:	TCEQ Geologic Assessment
Site:	Four-Lot Property
Location:	3101 W. William Cannon Road, Austin, Travis County, Texas 78745
Description:	View of onsite manmade feature in bedrock MB-2.

PHOTOGRAPHIC REPORTING DATA SHEET [PHOTOGRAPH 7]



Project:	TCEQ Geologic Assessment
Site:	Four-Lot Property
Location:	3101 W. William Cannon Road, Austin, Travis County, Texas 78745
Description:	View of offsite manmade feature in bedrock MB-3.

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Calvin J. Weiman

Date: 08/09/2023

Signature of Customer/Agent:

Cali J. Wei

Regulated Entity Name: The Offices at William Cannon

Regulated Entity Information

- 1. The type of project is:
 - Residential: Number of Lots:
 Residential: Number of Living Unit Equivalents:
 Commercial
 Industrial
 Other:
- 2. Total site acreage (size of property): 6.37
- 3. Estimated projected population: T.B.D.
- 4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	18,381	÷ 43,560 =	0.4220
Parking	40,880	÷ 43,560 =	0.9385
Other paved surfaces	2,462	÷ 43,560 =	0.0565
Total Impervious Cover	61,723	÷ 43,560 =	1.42

Table 1 - Impervious Cover Table

Total Impervious Cover <u>1.42</u> \div Total Acreage <u>6.37</u> X 100 = <u>22.29</u>% Impervious Cover

- 5. Attachment A Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
- 6. Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

Complete questions 7 - 12 if this application is exclusively for a road project.

7. Type of project:

TXDOT road project.

County road or roads built to county specifications.

City thoroughfare or roads to be dedicated to a municipality.

Street or road providing access to private driveways.

8. Type of pavement or road surface to be used:

Concrete Asphaltic concrete pavement Other:

9. Length of Right of Way (R.O.W.): _____ feet.

Width of R.O.W.: _____ feet. L x W = _____ $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$

10. Length of pavement area: _____ feet.

Width of pavement area:feet.L x W = $Ft^2 \div 43,560 Ft^2/Acre =$ acres.Pavement areaacres ÷ R.O.W. areaacres x 100 =% impervious cover.

11. A rest stop will be included in this project.

A rest stop will not be included in this project.

12. Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

13. Attachment B - Volume and Character of Stormwater. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

14. The character and volume of wastewater is shown below:

<u>100</u> % Domestic	<u>9216</u> Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day <u>9216</u>	

15. Wastewater will be disposed of by:

On-Site Sewage Facility (OSSF/Septic Tank):

Attachment C - Suitability Letter from Authorized Agent. An on-site sewage facility
will be used to treat and dispose of the wastewater from this site. The appropriate
licensing authority's (authorized agent) written approval is attached. It states that
the land is suitable for the use of private sewage facilities and will meet or exceed
the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285
relating to On-site Sewage Facilities.

Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

Sewage Collection System (Sewer Lines):

- Private service laterals from the wastewater generating facilities will be connected to an existing SCS.
- Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

] The SCS was previously submitted on_____.

- The SCS was submitted with this application.
-] The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

The sewage collection system will convey the wastewater to the <u>South Austin Regional</u> <u>WWTP</u> (name) Treatment Plant. The treatment facility is:

\times	Existing.
	Proposed

16. \square All private service laterals will be inspected as required in 30 TAC §213.5.

Site Plan Requirements

Items 17 – 28 must be included on the Site Plan.

17. \square The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = <u>40</u>'.

18. 100-year floodplain boundaries:

Some part(s) of the project site is located within the 100-year floodplain.	The floodplain
is shown and labeled.	

 \boxtimes No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): <u>The FEMA Flood Insurance Rate Map No. 48453C0580H, Date:</u> <u>September 26, 2008.</u>

19. The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

There are	(#) wells present on the project site and the locations are shown and
labeled. (C	heck all of the following that apply)

The wells are not in use and have been properly abandoned.

] The wells are not in use and will be properly abandoned.

] The wells are in use and comply with 16 TAC §76.

 \boxtimes There are no wells or test holes of any kind known to exist on the project site.

21. Geologic or manmade features which are on the site:

All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

No sensitive geologic or manmade features were identified in the Geologic Assessment.

Attachment D - Exception to the Required Geologic Assessment. A request and justification for an exception to a portion of the Geologic Assessment is attached.

- 22. The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. \boxtimes Areas of soil disturbance and areas which will not be disturbed.
- 24. 🔀 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. \boxtimes Locations where soil stabilization practices are expected to occur.
- 26. Surface waters (including wetlands).

🖂 N/A

- 27. Locations where stormwater discharges to surface water or sensitive features are to occur.
 - There will be no discharges to surface water or sensitive features.
- 28. 🛛 Legal boundaries of the site are shown.

Administrative Information

- 29. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 30. Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.



PROJECT:The Offices at William CannonAddress:3101 W William Cannon Dr, Austin, Texas 78745

Owner: Jubilee Christian Center

Water Pollution Abatement Plan Application

Attachment A

Factors Affecting Water Quality

Potential sources of pollution include:

- Runoff and erosion of sediment and pollutants from exposed soil due to clearing and grubbing, grading, landscaping, and other earthwork activities.
- Runoff from the construction equipment storage and maintenance. This may include typical automotive fluids, lubricants, and fuels.
- Runoff from construction product staging, storage, and waste. This may include materials that can degrade the quality of receiving waters and make them unsafe for consumption and aquatic life.
- Runoff from paving operations may contain hydrocarbons and polyaromatic hydrocarbons.
- Runoff from lawn and landscape chemicals such as pesticides and herbicides
- Total Suspended Solids (TSS)

Once construction is complete, the runoff from the site will be directed to the partial sedimentation/biofiltration pond via overland flow.

Attachment B

Volume and Character of Stormwater

Modeling of the runoff for the site was conducted under the assumption of Hydrologic soil group D conditions. Stormwater runoff from the site will be captured and routed to the partial sedimentation/biofiltration pond which provides approximately 30,150.70 cubic feet of storage. Detailed plans and calculations for the water quality pond facilities are included in the attached plan set.

- Through the proposed water quality pond and drainage structures, the character and volume of the stormwater runoff leaving the site is within the required design parameters of the TCEQ.
- See attached plans and stormwater runoff calculations.

Attachment C

Suitability Letter from Authorized Agent – This section is not applicable.



Exception to the required geologic Assessment - This section is not applicable.

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: <u>Calvin J. Weiman</u>

Date: 08/09/2023

Signature of Customer/Agent:

Cali J. Wei

Regulated Entity Name: The Offices at William Cannon

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

The following fuels and/or hazardous substances will be stored on the site: <u>Gasoline/Disel Fuel</u>

These fuels and/or hazardous substances will be stored in:

Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

TCEQ-0602 (Rev. 02-11-15)

Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

Fuels and hazardous substances will not be stored on the site.

- 2. Attachment A Spill Response Actions. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. Attachment B Potential Sources of Contamination. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. Attachment C - Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>Natural canal to the north-west</u> of the property (KINCHEON BRANCH)

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

7. Attachment D – Temporary Best Management Practices and Measures. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

\boxtimes	A description of how BMPs and measures will prevent pollution of surface water,
	groundwater or stormwater that originates upgradient from the site and flows
	across the site.

A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

Attachment E - Request to Temporarily Seal a Feature. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. Attachment F - Structural Practices. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached:

For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. Attachment H - Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

🗌 N/A

- 12. Attachment I Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
- 13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
- 14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
- 15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
- 16. 🖂 Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices. A schedule of the interim and permanent soil stabilization practices for the site is attached.

- 18. Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 19. Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

- 20. \square All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
- 21. If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
- 22. Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.



PROJECT:The Offices at William CannonAddress:3101 W William Cannon Dr, Austin, Texas 78745

Owner:

Jubilee Christian Center

TEMPORARY STORMWATER SECTION

Attachment A

Spill Response Actions

The following is a description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances. The proceeding excerpts are from the City of Austin Watershed Department Clean Water Fact Sheets:

Petroleum Spills Response

Do not flush spills away with water. Instead, contain them immediately, before they reach a storm drain and spread to a creek or lake. Also, do not put yourself or others in danger. Before containment, evaluate what materials have spilled, make a thorough assessment of risk, and determine how to contain the spill safely. If safe containment is possible, immediately stop the spread of liquids using absorbent materials. Keep spill containment and clean up materials appropriate for the type and quantities of hazardous chemicals used or stored at your facility. The Watershed Protection Department provides a list of absorbent material suppliers. Immediately block off nearby drain (sanitary or storm sewer). It is much more costly to decontaminate inside of a storm sewer pipe and /or restore a contaminated creek than it is to purchase spill containment materials.

Always wear appropriate safety equipment such as gloves, coveralls, goggles, and respirators. Access Materials Safety Data Sheets (MSDS) for information about spilled materials. Keep MSDSs readily available for each chemical used or stored at the facility. A MSDS contains information that enables persons responsible for handling, using or encountering chemicals to estimate the likely harm, potential hazards and risks that might arise in emergency situations involving those chemicals. Obtain a MSDS free of charge by calling the manufacturer's phone number from the label on the chemical container.

Never leave spills unattended. Designate someone to make spill notification phone calls. **Immediately notify** the following agencies:

Local: City of Austin Fire Department by dialing 911;

State: The TCEQ requires spills/emergency release situations to be reported per <u>30 TAC</u> <u>Sections 327.1-327.5</u> effective May 23, 1996. Report spills to Environmental Release Hotline or the <u>Texas Commission on Environmental Quality (TCEQ) 1-800-832-8224</u>; <u>TCEQ Local office at 339-2929</u>; or TCEQ (24-Hours) at 512/239-2507 or 512/463-7727.



Federal: National Response Center (NRC) 1-800-424-8802 (Notification of the National Response Center does not constitute notice to the state).

Clean up surfaces contaminated by hazardous chemicals only if you are trained, experienced, and qualified. Excavate spills on previous (e.g. soil) surfaces as quickly as possible to prevent spread of the contamination. Contact the Watershed Protection Department for soil cleanup instructions. Sweep up and containerize dry material spills on impervious surfaces (e.g. pavement) for proper disposal. Absorb liquid spills on impervious surfaces with sorbent materials (e.g. clay sorbent, pads, booms, etc.) and containerize for proper disposal. Do not use wet/dry shop vacuum for gasoline, solvents, or other volatile fluids because of explosion hazards.

Post a site-specific spill contingency plan at your facility. This should provide step-bystep instructions in the event of a spill. Practice these steps in a "spill drill." The Watershed Protection Department provides information regarding spill contingency plans and a fact sheet detailing proper spill handling. A phone number is provided at the end of this fact sheet.

Construction Products/Wastes Spills Response

Immediately clean up spills to prevent environmental impacts, especially spreading of the spill to a storm drain and waterway. Never leave spills unattended or flush a spill with water.

Prevent spills, as much as possible, through prevention planning. Inspect vehicles and heavy equipment for leaks and repair promptly. Inspect portable toilets routinely for leaks and keep them in a secured area away from traffic and possible vandalism.

Clean up non-hazardous spills on impervious (paved) surfaces by using a sorbent material (e.g. kitty litter, sand, peat, etc.), and disposed of the waste properly. Contain hazardous or large non-hazardous or large non-hazardous spills, if it is safe, and immediately contact the <u>City of Austin Fire Department by dialing 911.</u>

Excavate or remediate spills on pervious (soil) surfaces as quickly as possible to prevent the spread of the contamination. Any surfaces contaminated by hazardous or toxic materials should be remediated by experienced, qualified individuals to protect the health and safety of yourself and the general public.

Report all spills to the Watershed Protection Department to receive proper clean up instructions, especially for hazardous materials and large volume spills.

A material safety data sheet (MSDS) should be readily available for each hazardous chemical used and stored at the site. A MSDS contains information that enables persons responsible for handling, using or encountering chemicals to estimate the likely harm, potential hazards and risks that might arise in emergency situations involving those



chemicals. Obtain a MSDS by calling the manufacturer's phone number from the label on the chemical container.

Collect and dispose of cleaning activity waste properly.

Clean without creating any discharge of soaps, detergents, oil or other pollutants to a storm sewer or waterway. Ideally, wash equipment and vehicles at an approved wash facility over a drain to the sanitary sewer. If any washing must be done on site, use plain water only and make sure the wash water does not create silty runoff.

When cleaning paint equipment outside, contain wastewater in a bucket or other container and dispose of it properly. Dispose of water based or latex paint wastewater in the sanitary sewer (e.g. sink, toilet). Collect and dispose oil-based paint wastes, including solvents through a hazardous waste disposal company.

When cleaning paved areas, sweep up debris, pre-treat oil stains and slick spots with dry solvent (make a paste with water, kitty litter and powdered soap), and clean large areas with approved equipment such as vacuum scrubbers that collect the wastewater for proper disposal to a sanitary drain.

The following are excerpts from the TCEQ TPDES SWPPP Worksheet instructions draft 12/02/03:

Reportable Quantities for Regulated Substances

30 Texas Administrative Code §327.4

(a) Hazardous substances. The reportable quantities for hazardous substances shall be: (1) For spills or discharges onto land--the quantity designated as the Final Reportable Quantity (RQ) in Table 302.4 in 40 CFR §§302.4; or

(2) For spills or discharges into waters in the state--the quantity designated as the Final RQ in Table 302.4 in 40 CFR §§302.4, except where the Final RQ is greater than 100 pounds in which case the RQ shall be 100 pounds.

(b) Oil, petroleum product, and used oil.

(1) The RQ for crude oil and oil other than that defined as petroleum product or used oil shall be:

(A) For spills or discharges onto land--210 gallons (five barrels); or

(B) For spills or discharges directly into water in the state-quantity sufficient to create a sheen.

(2) The RQ for petroleum product and used oil shall be:

(A) Except as noted in subparagraph (B) of this paragraph, for spills or discharges onto land--25 gallons;

(B) For spills or discharges to land from PST exempted facilities--210 gallons (five barrels); or

(C) For spills or discharges directly into water in the state--quantity sufficient to create a sheen.



(c) Industrial solid waste or other substances. The RQ for spills or discharges into water in the state shall be 100 pounds.

Source Note: The provisions of this §§327.4 adopted to be effective May 23, 1996, 21 TexReg 4228.



Potential Sources of Contamination

- Runoff and erosion of sediment and pollutants from exposed soil due to clearing and grubbing, grading, landscaping and other earthwork activities.
- Runoff from the construction equipment storage and maintenance. This may include typical automotive fluids, lubricants and fuels.
- Runoff from construction product staging, storage, and waste. This may include materials that can degrade the quality of receiving waters and make them unsafe for consumption and aquatic life.
- Runoff from paving operations may contain hydrocarbons and polyaromatic hydrocarbons.
- Runoff from lawn and landscape chemicals such as pesticides and herbicides
- Total Suspended Solids (TSS)

Attachment C

Sequence of Major Activities

(Construction may be concurrent with other elements, but must be completed in the order shown below) - See attached plans.

- A. Install erosion controls as indicated on approved site plan.
 - a. Silt Fence (**1,828 LF**)
 - b. Construction Entrance (1 EA)
 - c. Install tree protection. (835 LF)
 - d. Triangular filter dike (90 LF)
- B. Contact "the city". Schedule on-site pre-construction coordination meeting.
- C. Evaluation of temporary erosion control installation. Review construction schedule with the erosion control plan.
- D. Inspect and maintain all controls as per general notes.
- E. The lots do not have impervious cover so only general cleaning of the area to be developed will be required. [3.23 acres]
- F. Construct proposed elements. [1.42 acres]
- G. Complete construction and install landscaping. [3.23 acres]
- H. Re-vegetate disturbed areas or complete a developer's contract for the re-vegetation along with the engineer's concurrence letter. **[1.81acres]**
- I. Project engineer inspects job and writes concurrence letter to the city. Final inspection is scheduled upon receipt of letter.
- J. Receive operating permit and city clearance for occupancy.
- K. Remove temporary erosion/sedimentation controls upon inspector's approval of adequate re-vegetation.



<u>Attachment D</u> Temporary Best Management Practices and Measures

- A stabilized construction entrance to trap sediment and prevent it from being tracked offsite.
- The primary temporary erosion and sedimentation control is silt fencing placed on all downstream sides of construction. Silt fence is used to prevent sediment from low volume storm events from entering the drainage ways and receiving waters by capturing the sediment before it is able to leave the site.
- The rough-cut ponds will be used for a temporary control in capturing sediment in the site stormwater runoff.
- > To prevent or reduce the discharge to pollutants to stormwater from concrete waste all concrete washout performed on site will be done within the designated concrete washout area.
- All construction debris and litter shall be collected and disposed of in designated temporary spoils and contractor staging area. Construction waste receptacles will be emptied when full and removed when project is completed.

Attachment E

Request to Temporarily Seal a Feature – This section is not applicable.

Attachment F

Structural Practices

- The primary structural practice to divert flows away from exposed soil is the silt fence placed on all downstream sides of construction. Silt fence is used to prevent sediment from low volume storm events from entering the drainage ways and receiving waters.
- > The rough cut ponds will be used as a temporary sedimentation basin
- Curb-and-gutter, when constructed, will also prevent flows from exposed soils.

Attachment G

Drainage Area Map – See attached drainage area map.


<u>Attachment H</u> Temporary Sediment Pond(s) Plans and Calculations

The rough cut detention and sedimentation ponds will be utilized as a temporary sediment pond. See the attached civil construction set for plans and calculations. The temporary sedimentation pond will be drained by means of a water skimmer (see example below) until the final discharge piping and headwall structure are complete.



Figure 6.64a Schematic of a skimmer, from Pennsylvania Erosion and Sediment Pollution Control Manual, March, 2000.



Figure 6.64c Example of a sediment basin with a skimmer outlet and emergency spilway. From Pennsylvaria Erosion and Sediment Pollution Control Manual, March, 2000.



Attachment I

Inspection and Maintenance for BMPs. Taken from RG-348, Chapter 1.

Stabilized Construction Entrance

- 1. The entrance should be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- 2. All sediment spilled, dropped, washed, or tracked onto public rights-of-way should be removed immediately by contractor.
- 3. When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- 4. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- 5. All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Silt Fence

- 1. Inspect all fencing weekly, and after any rainfall.
- 2. Remove sediment when buildup reaches 6 inches.
- 3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
- 4. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
- 5. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

Concrete Washout Area

- 1. Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- 2. Avoid mixing excess amounts of fresh concrete.
- 3. Perform washout of concrete trucks in designated areas only.
- 4. Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- 5. Do not allow excess concrete to be dumped onsite, except in designated areas.
- 6. Locate washout at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.



- 7. Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.
- 8. Plastic lining should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.
- 9. When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct the temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions, or other ground disturbances caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

Triangular Sediment Filter Dikes

- 1. Inspection should be made weekly or after each rainfall event and repair or replacement should be made promptly as needed by the contractor.
- 2. Inspect and realign dikes as needed to prevent gaps between sections.
- 3. Accumulated silt should be removed after each rainfall and disposed of in a manner which will not cause additional siltation.
- 4. After the site is completely stabilized, the dikes and any remaining silt should be removed. Silt should be disposed of in a manner that will not contribute to additional siltation.

Temporary Sedimentation Basin

- 1. Inspection should be made weekly and after each rainfall. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement. Repair should be made promptly as needed by the contractor.
- 2. Trash and other debris should be removed after each rainfall to prevent clogging of the outlet structure.
- 3. Accumulated silt should be removed, and the basin should be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 75% of its original storage capacity.
- 4. The removed sediment should be stockpiled or redistributed in areas that are protected from erosion.



<u>Attachment J</u> Schedule of Interim and Permanent Soil Stabilization Practices

As many trees and natural area as possible have been preserved, please refer to the erosion and sedimentation control plan located in the civil construction set of the "General Information" section.

All areas disturbed areas shall be restored as noted below.

A. All disturbed areas to be revegetated are required to place a minimum of six (6) inches of topsoil [see Standard Specification Item No. 601S.3(A)]. Do not add topsoil within the critical root zone of existing trees. The topsoil shall be composed of 3 parts of soil mixed with 1-part compost, by volume. The compost shall be Dillo Dirt or an equal approved by the Engineer, or designated representative. The approved equal, if used, shall meet the definition of compost (as defined by the U.S. Composting Council). The soil shall be locally available native soil that meets the following specifications:

• Shall be free of trash, weeds, deleterious materials, rocks, and debris.

• 100% shall pass through a 0.375-inch (3/8") screen.

• Soil Texture class to be Loam, Sandy Clay Loam, or Sandy Loam in accordance with the USDA texture triangle. Soil known locally as "red death" or Austin Sandy Loam is not an allowable soil. Textural composition shall meet the following criteria:

Texture Class	Minimum	Maximum
Clay	5%	25%
Silt	10%	50%
Sand	30%	80%

Topsoil salvaged from the existing site may often be used, but it should meet the same standards as set forth in these standards.

B. (From 30 TAC 213.5(b)(4)(D)(i)(-b-): Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated a soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after



construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

The vegetative stabilization of areas disturbed by construction shall be as follows:

TEMPORARY VEGETATIVE STABILIZATION:

- A. From September 15 to March 1, seeding shall be with or include a cool season cover crop: (Western Wheatgrass (Pascopyrum smithii) at 5.6 pounds per acre, Oats (Avena sativa) at 4.0 pounds per acre, Cereal Rye Grain (Secale cereale) at 45 pounds per acre. Contractor must ensure that any seed application requiring a cool season cover crop does not utilize annual ryegrass (Lolium multiflorum) or perennial ryegrass (Lolium perenne). Cool season cover crops are not permanent erosion control.
- B. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 45 pounds per acre or a native plant seed mix conforming to Item 604S or 609S.
 - a) Fertilizer shall be applied only if warranted by a soil test and shall conform to Item No. 606S, Fertilizer. Fertilization should not occur when rainfall is expected or during slow plant growth or dormancy. Chemical fertilizer may not be applied in the Critical Water Quality Zone.
 - b) Hydromulch shall comply with Table 1, below.
 - c) Temporary erosion control shall be acceptable when the grass has grown at least 1½ inches high with a minimum of 95% total coverage so that all areas of a site that rely on vegetation for temporary stabilization are uniformly vegetated, and provided there are no bare spots larger than 10 square feet.
 - d) When required, native plant seeding shall comply with requirements of the City of Austin Environmental Criteria Manual, and Standard Specification 604S or 609S.

Table 1: Hydromulching for Temporary Vegetative Stabilization

PERMANENT VEGETATIVE STABILIZATION:

- 1. From September 15 to March 1, seeding is considered to be temporary stabilization only. If cool season cover crops exist where permanent vegetative stabilization is desired, the grasses shall be mowed to a height of less than one-half (1/2) inch and the area shall be re-seeded in accordance with Table 2 below. Alternatively, the cool season cover crop can be mixed with Bermudagrass or native seed and installed together, understanding that germination of warm-season seed typically requires soil temperatures of 60 to 70 degrees.
- 2. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 45 pounds per acre with a purity of 95% and a minimum pure live seed (PLS) of 0.83. Bermuda grass is a warm season grass and is considered permanent erosion control. Permanent vegetative stabilization can also be accomplished with a native plant seed mix conforming to Item 604S or 609S.



- a) Fertilizer use shall follow the recommendation of a soil test. See Item 606S, Fertilizer. Applications of fertilizer (and pesticide) on City-owned and managed property requires the yearly submittal of a Pesticide and Fertilizer Application Record, along with a current copy of the applicator's license. For current copy of the record template contact the City of Austin's IPM Coordinator.
- b) Hydromulch shall comply with Table 2, below.
- c) Water the seeded areas immediately after installation to achieve germination and a healthy stand of plants that can ultimately survive without supplemental water. Apply the water uniformly to the planted areas without causing displacement or erosion of the materials or soil. Maintain the seedbed in a moist condition favorable for plant growth. All watering shall comply with City Code Chapter 6-4 (Water Conservation), at rates and frequencies determined by a licensed irrigator or other qualified professional, and as allowed by the Austin Water Utility and current water restrictions and water conservation initiatives.
- d) Permanent erosion control shall be acceptable when the grass has grown at least 1½ inches high with a minimum of 95 percent for the non-native mix, and 95 percent coverage for the native mix so that all areas of a site that rely on vegetation for stability must be uniformly vegetated, and provided there are no bare spots larger than 10 square feet.

Material	Description	Longevity	Typical Applications	Application Rates
Bonded Fiber Matrix (BFM)	80% Organic defibrated fibers			
10% Tackifier	6 months	On slopes up to 2:1 and erosive soil conditions	2,500 to 4,000 lbs per acre (see manufacturers recommendations)	
Fiber Reinforced Matrix (FRM)	65% Organic defibrated fibers 25% Reinforcing Fibers or less 10% Tackifier	Up to 12 months	On slopes up to 1:1 and erosive soil conditions	3,000 to 4,500 lbs per acre (see manufacturers recommendations)

e) When required, native plant seeding shall comply with requirements of the City of Austin Environmental Criteria Manual, Items 604S and 609S.

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 Table 2: Hydromulching for Permanent Vegetative Stabilization

Permanent Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(Ii), (E), and (5), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Calvin J. Weiman

Date: 08/09/2023

Signature of Customer/Agent

Calin J. Wei

Regulated Entity Name: The Offices at William Cannon

Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

1. Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.



- 2. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 - The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

N/A

3. Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

_____N/A

- 4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
 - The site will be used for low density single-family residential development and has 20% or less impervious cover.
 - The site will be used for low density single-family residential development but has more than 20% impervious cover.
 - The site will not be used for low density single-family residential development.
- 5. The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
 - Attachment A 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
 - The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
 - The site will not be used for multi-family residential developments, schools, or small business sites.
- 6. Attachment B BMPs for Upgradient Stormwater.

	 A description of the BMPs and measures that will be used to prevent pollution or surface water, groundwater, or stormwater that originates upgradient from the and flows across the site is attached. No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached. Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached. 	ite e
7.	Attachment C - BMPs for On-site Stormwater.	
	 A description of the BMPs and measures that will be used to prevent pollution or surface water or groundwater that originates on-site or flows off the site, include pollution caused by contaminated stormwater runoff from the site is attached. Permanent BMPs or measures are not required to prevent pollution of surface w or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached. 	∩g ater
8.	Attachment D - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquis attached. Each feature identified in the Geologic Assessment as sensitive has bee addressed.	ifer າ
	⊠ N/A	
9.	The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geolog assessment, executive director review, or during excavation, blasting, or constructio	ic n.
	 The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed. Attachment E - Request to Seal Features. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached. 	ē
10.	Attachment F - Construction Plans. All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, dated. The plans are attached and, if applicable include:	r and
	 Design calculations (TSS removal calculations) TCEQ construction notes All geologic features All proposed structural BMP(s) plans and specifications 	

11. 🔀	Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
	Prepared and certified by the engineer designing the permanent BMPs and measures
	Signed by the owner or responsible party Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
	A discussion of record keeping procedures
	N/A
12. 🗌	Attachment H - Pilot-Scale Field Testing Plan . Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
	N/A
13. 🔀	Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality

N/A

degradation.

Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after construction is complete.

14. 🖂 The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

N/A

15. \square A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

N/A



PROJECT:	The Offices at William Cannon
Address:	3101 W William Cannon Dr, Austin, Texas 78745
Owner:	Jubilee Christian Center

Jubilee Christian Center

Permanent Storm Water Section

Attachment A

20% or Less Impervious Cover Waiver – This item is not applicable.

Attachment B **BMPs for Upgradient Stormwater**

The runoff from three off-site drainage basins discharges into the lots to be developed, of which only the Offsite Dev. DA 1 would cross the proposed development with the new impervious cover, all discharge from the area would be treated by the partial sedimentation/biofiltration pond and irrigation system, the other areas would not be affected by the development and would follow their natural course.

Attachment C **BMPs for On-site Stormwater**

The runoff from drainage basin **Dev. DA 2** within the lots will be directed to the partial sedimentation/biofiltration pond and irrigation system via overland flow. The water quality pond is required to have a total capture volume of 11,482 cubic feet and analysis of the proposed water system indicates an available storage of 11,898 cubic feet at the maximum WS elevation of 732.75 msl.

Attachment D

BMPs for Surface Streams – This item is not applicable.

Attachment E

Request to Seal Features – This item is not applicable.

Attachment F

See attached Civil Construction plans and support exhibits.

Attachment G

Inspection, Maintenance, Repair and Retrofit Plan - See attached G.

Attachment H

Pilot-Scale Field Testing Program – This item is not applicable.

Attachment I

Measures for Minimizing Surface Stream Contamination



To minimize surface stream contamination, the proposed runoff during construction will be directed towards the temporary BMPs via overland flow. Once the development has been completed, the water runoff will be directed to the water quality and detention facilities, which will have an outlet structure designed to prevent erosion and decrease flows and velocities of the discharged water.



CITY OF AUSTIN GRID # E17 MAPSCO PG: 643K, 643P

OWNER

JUBILEE CHRISTIAN CENTER JIMMY SEAL 2909 W WILLIAM CANNON DR AUSTIN, TEXAS 78745 PHONE: (512) 627-3050

UTILITIES

AUSTIN WATER UTILITY

CITY OF AUSTIN 625 E. 10TH STREET AUSTIN, TEXAS 78701 CONTACT: PHONE: (512) 972-0238

ELECTRIC AUSTIN ENERGY CONTACT DON PLEASANT 2412 KRAMER LANE, BLDG. C AUSTIN, TEXAS 78758 PHONE: (512) 505-7223

CONSULTANTS

CIVIL ENGINEER

AUSTIN CIVIL ENGINEERING, INC. 9501-B MENCHACA ROAD, SUITE 220 AUSTIN, TEXAS 78748 PHONE: (512) 306-0018

SURVEYOR

D&A DOUCET & ASSOCIATES 7401 B. HIGHWAY 71 W, SUITE 160 AUSTIN, TEXAS 78735 PHONE: (512) 583-2600

TELEPHONE

CONTACT: MICHAEL THURMAN

UTILITY LOCATING SERVICE

1(800) DIG-TESS = 1(800) 344-8377

CONTRACTOR TO CALL BEFORE DIGGING !! PHONE:

AUSTIN, TEXAS 78752

PHONE: (512) 870-4708

ONE-CALL

712 EAST HUNTLAND DRIVE, ROOM 229

AT&T

LANDSCAPE

-----AUSTIN, TEXAS PHONE: (512) ____-

> THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.





NUMBER

THE OFFICES AT WILLIAM CANNON

3101 W WILLIAM CANNON DR AUSTIN, TEXAS 78745

CASE NUMBER: SP-2023-0271C SUBMITTAL DATE: 07/18/2023

SHEET INDEX

- 1. COVER SHEET 2. GENERAL NOTES
- 3. PLAT
- 4. EXISTING TOPOGRAPHIC AND TREE SURVEY
- 5. TREE LIST
- 6. EXISTING DRAINAGE AREA MAP 7. DEVELOPED DRAINAGE AREA MAP
- 8. OVERALL SITE PLAN
- 9. SITE PLAN
- 10. GRADING PLAN
- 11. WATER DISTRIBUTION PLAN
- 12. 1.25" FORCE MAIN PLAN AND PROFILE STA: 0+00.00 TO STA: 5+40.00 13. 1.25" FORCE MAIN PLAN AND PROFILE STA: 5+40.00 TO STA: 11+38.40
- 14. WATER QUALITY AND DETENTION POND
- 15. WATER QUALITY AND DETENTION POND DETAILS
- 16. WATER QUALITY POND CALCULATIONS
- 17. RE-IRRIGATION PLAN
- 18. EROSION AND SEDIMENTATION CONTROL PLAN
- 19. DETAILS: SITE 20. DETAILS: EROSION AND SEDIMENTATION CONTROL
- 21. DETAILS: GRADING & DRAINAGE
- 22. DETAILS: UTILITY 1 OF 2
- 23. DETAILS: UTILITY 2 OF 2
- 24. AUSTIN WATER GENERAL INFORMATION & CONSTRUCTION NOTES
- 25. GRINDER PUMP DETAIL 26. TCEQ CONSTRUCTION NOTES

STATE OF TEXAS

COUNTY OF TRAVIS

I, CALVIN J. WEIMAN, P.E., DO HEREBY CERTIFY THAT THE ENGINEERING WORK BEING SUBMITTED HEREIN COMPLIES WITH THE TEXAS ENGINEERING PRACTICE ACT, INCLUDING SECTION 131.152(e). I HEREBY ACKNOWLEDGE THAT ANY MISREPRESENTATION REGARDING THIS CERTIFICATION CONSTITUTES A VIOLATION OF THE ACT, AND MAY RESULT IN CRIMINAL, CIVIL AND/OR ADMINISTRATIVE PENALTIES AGAINST ME, AS AUTHORIZED BY THE ACT.



CALVIN J. WEIMAN, P.E.

Cali J. Wei



07/14/23 DATE

APPLICABLE WATERSHED ORDINANCE OPERATING PERMIT:

WHERE APPLICABLE UNDER 25-8-233 :_____ WPDR SIGN-OFF AND DATE: _____

ZONING: LO-CO

BENCHMARK: BENCHMARK #1

STREET CLASSIFICATION: MAJOR ARTERIAL ROAD

UNIFIED DEVELOPMENT AGREEMENT:

- THIS SITE IS LOCATED WITHIN THE EDWARD'S AQUIFER RECHARGE ZONE
- THE SURVEYOR / CIVIL ENGINEER
- OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
- REASON THAT THE PROPOSED PLAN WOULD NOT BE APPROVED.
- WATER SERVICE WILL BE PROVIDED BY THE CITY OF AUSTIN
- WASTEWATER SERVICE WILL BE PROVIDED BY THE CITY OF AUSTIN
- * CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION
- CHARGED TO THE OWNER.
- THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.
- LOCATIONS OF UTILITY CROSSING PRIOR TO BEGINNING CONSTRUCTION.
- ALL TREES ARE TO BE PROTECTED DURING CONSTRUCTION,
- ADDITIONAL APPROVALS MAY BE NECESSARY.
- WILL REQUIRE A SEPARATE PERMIT (UNIFORM BUILDING CODE 106.2.5).

ACCEPTED F **REVIEWED B**

DEVELOPME

AUSTIN WATI

AUSTIN FIRE

INDUSTRIAL

CRITICAL ENVIRONMEN TAINED PER CITY OF AUS NATIVE VEGETATION SH TER QUALITY FUNCTION OF BUFFER SHALL OCCUR S TIN CODE AND CRITERIA.

ACTIVITIES WITHIN THE CRI FER MUST COMPLY WITH T URAL VEGETATIVE COVER N ACTICABLE; CONSTRUCTION **RRIGATION IS PROHIBITED**

DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET NO.'S	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMP. COVER (SQ. FT.)	TOTAL SITE IMP. COVER (SQ. FT.)/%	CITY OF AUSTIN APPROVAL- DATE

PROJECT DATA

ACREAGE: LOT 52 = 1.37 AC, LOT 53 = 1.56 AC, LOT 54 = 1.73 AC, LOT 55 = 1.71 AC TOTAL: 6.37 AC

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PROFILE.

07/14/23

DR

CANNON VS 78745

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- LEGAL DESCRIPTION: LOT 52 LESS N30FT WESTERN HILLS
 - LOT 53 LESS N30FT AV WESTERN HILLS +.261AC VACATED ROW LOT 54 * LESS N30FT WESTERN HILLS +.261AC VACATED ROW
 - LOT 55 * LESS N30FT WESTERN HILLS
 - ADDRESS: 3101 W WILLIAM CANNON DR AUSTIN, TEXAS 78754
- LAND USE SUMMARY: COMMON AREA AND UN-DEVELOPED
 - DATE: 07/14/2023
 - ELEVATION: 732.13'

DESCRIPTION: MAG NAIL WITH DOUCET SHINER SET IN TOP OF CONCRETE STORM INLET. LOCATED ON THE SOUTH RIGHT-OF-WAY LINE OF WEST WILLIAM CANNON DRIVE APPROXIMATELY 1,440 FEET SOUTHEAST FROM THE INTERSECTION OF WEST WILLIAM CANNON DRIVE AND STAGECOACH TRAIL



• THIS PROJECT IS LOCATED IN THE WILLIAMSON CREEK WATERSHED, CLASSIFIED AS BARTON SPRINGS ZONE, AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN CONFORMANCE WITH THE TERMS AND CONDITIONS OF THE CITY OF AUSTIN WATERSHED DEVELOPMENT ORDINACE

• THIS TRACT IS WITHIN THE ZONE "X" AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP PANEL NO. 18453C0580 H. REVISED DATE SEPTEMBER 26. 2008 FOR TRAVIS COUNTY. TEXAS. THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF

• ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS. THE CITY

 ENGINEER HAS RESEARCHED CODES, ORDINANCES AND OTHER REQUIREMENTS OF LOCAL, STATE AND FEDERAL JURISDICTION INCLUDING FIRE DEPARTMENTS OF CITY AND COUNTY. THE PROPOSED SITE PLAN IS IN COMPLIANCE WITH THESE REQUIREMENTS. IN ADDITION THE ENGINEER AND DEVELOPER HAVE HAD MEETINGS WITH AND COMMUNICATED WITH THE CITY STAFF REGARDING THE PROPOSED DEVELOPMENT. NO FORMAL SUBMISSION TO THE CITY HAS BEEN MADE, HOWEVER BASED ON THE PREDEVELOPMENT MEETINGS AND PRELIMINARY REVIEWS CITY STAFF DOES NOT SEE ANY

THE OWNER OF THE PROPERTY IS RESPONSIBLE FOR MAINTAINING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, CITY OF AUSTIN RULES AND REGULATIONS AND TEXAS STATE LAWS PERTAINING TO CLEARANCES WHEN WORKING IN CLOSE PROXIMITY TO OVERHEAD POWER LINES AND EQUIPMENT. AUSTIN ENERGY WILL NOT RENDER ELECTRIC SERVICE UNLESS REQUIRED CLEARANCES ARE MAINTAINED, ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCES WILL BE

 RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AS CONSTRUCTED (THE SURVEYOR/ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES, ONLY THE VISIBLE ABOVE GROUND UTILITY STRUCTURES.) THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 811, OR THE OWNER OF EACH INDIVIDUAL UTILITY, FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY

• THE SIZE AND LOCATION OF UTILITY STRUCTURES, (IF SHOWN), MAY BE EXAGGERATED FOR GRAPHICAL CLARITY.

• APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN INDICATES COMPLIANCE WITH THE APPLICABLE CITY REGULATIONS ONLY. APPROVAL BY OTHER GOVERNMENTAL ENTITIES MAY BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR DETERMINING WHAT

• RETAINING WALLS OVER FOUR FEET IN HEIGHT, MEASURED FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL, SHALL BE ENGINEERED AND

• STORMWATER CONTROL MEASURES REQUIRED FOR COMMERCIAL AND MULTI-FAMILY DEVELOPMENT WILL BE MAINTAINED BY THE PROPERTY OWNER.

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NT SERVICE DEPARTMENT	DATE	(0)		
ER	DATE	REVISION		
DEPARTMENT	DATE			
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TAL FEATURE (CEF) BUFFERS MUST BE TIN CODE AND CRITERIA. EXISTING DRAINAGE ALL REMAIN UNDISTURBED TO ALLOW THE THE BUFFER. INSPECTION AND MAINTENANCE	SITE PLAN APPROVAL SHEET 1 OF 26 FILE NUMBER: SP-2023-0271C APPLICATION DATE: 07/18/2023 APPROVED BY COMMISSION ON: UNDER SECTION 112 (or 142) OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE. EXPIRATION DATE (25-5-81, LDC) CASE MANAGER KATE CASTLES Content	JOB: 22 CAD: DA ENGINEE SCAI	<mark>-050</mark> DAT / MM Снк .R: СW Снк LE:	
TICAL ENVIRONMENTAL FEATURES (CEF) HE CITY OF AUSTIN CODE AND CRITERIA. THE MUST BE RETAINED TO THE MAXIMUM EXTENT	PROJECT EXPIRATION DATE (ORD.#970905-A): DWPZDDZ_100%_ Director, Development Services Department RELEASE FOR GENERAL COMPLIANCE: ZONING: LO-CO Data Computing law		COVE SHEE	F
IS PROHIBITED; AND WASTEWATER DISPOSAL	Rev. 1 Correction 1: Rev. 2 Correction 2: Rev. 3 Correction 3: Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.	E CIVIL PLAN	1	
	SP-2023-0271C	SIT	0	f
				-

STANDARD CONSTRUCTION NOTES NOVEMBER 23, 2017

 THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO THIS WORK.
 CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM AUSTIN TRANSPORTATION DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC

STREET OR ALLEY. 3. AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY AUSTIN TRANSPORTATION INSPECTION OR DEVELOPMENT SERVICES DEPARTMENT (DSD) INSPECTIONS AT THE NUMBER INDICATED ON THE PLANS BY THE

AW PLAN REVIEWER. 4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.

5. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.

6. THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
7. ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY

8. PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMALLY PRESSURE TAPS 4 INCHES AND LARGER SHALL BE ALLOWED IN THE FOLLOWING CASES:
A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUT OUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED

BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT. 9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(22) AND SPL WW 27-A and WW 27-F.

10. FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 511S.4 AND SHALL BE PAINTED FLYNT ALUMINUM OR EQUAL. FIRE HYDRANTS AND ASSOCIATED VALVES, TEN (10) YEARS AND OLDER WILL BE REQUIRED TO BE REPLACED WITH A NEW FIRE HYDRANT AND APPERTENUNANCES.

11. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)–(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.

12. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.

13. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PB IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER. 14. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE. THE CONTRACTOR SHALL

NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.

15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS. 16. WATER AND WASTE WATER SERVICES WILL NEED TO BE REPLACED UP TO THE MAIN. REPAIR COUPLINGS ARE NOT ALLOWED ON NEW INSTALLTIONS.

 ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNIA FOR THE CITY OF AUSTIN.
 THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES,

BELOW GROUND AND OVERHEAD, PRIOR TO STARTING ONSITE UTILITY WORK. 19. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, CHAPTER 217 - DESIGN CRITERIA

FOR SEWERAGE SYSTEMS AMD CHAPTER 210 – DESIGN CRIERIA FOR RECLAIMED SYSTEMS OF TCEQ RULES. 20. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR

COMPARABLE TRAINING PROGRAM. 21. SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF TEXAS, SHALL BE SUBMITTED FOR AUSTIN WATER APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTIONS TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN THE CONTRACT DRAWINGS.

22. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.23. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY

"LEAD FREE" ACCORDING TO THE US SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP, AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTINGS, BACKFLOW PREVENTERS AND FIRE HYDRANTS. TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENT OR ON THE PACKAGING SHALL NOT BE INSTALLED.

24. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO AUSTIN WATER. NOTICE SHOULD BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINTENANCE, VALVES AND HYDRANT SERVICES, SUPERVISING AW PIPELINE TECHNICIAN AT 512-972-1133

25. ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT, SHALL BE REMOVED FROM THE METER BOX PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE DSD INSPECTOR.

26. THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET. A SEPARATE AUSTIN WATER TAPS OFFICE FORM WILL BE USED TO PROVIDE RELEVANT INFORMATION FOR THE EXISTING INFORMATION ON EXISTING METERS TO RECEIVE APPROPRIATE CREDITS. THIS FORM SHALL BE DIRECTLY SUBMITTED TO AUSTIN WATER TAPS OFFICE FOR REVIEW AND PROCESSING.

27. NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND AUSTIN WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED.28. ALL GRAVITY LINES SHALL BE INSTALLED DOWNSTREAM TO UPSTREAM.

29. METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.

30. PROTECTED STREET STATUS IS SUBJECT TO CHANGE OVER TIME. IT IS THE OWNER'S RESPONSIBILITY TO CONFIRM THE STREET STATUS PRIOR TO CONSTRUCTION AS PROTECTED STREET STATUS WILL DIRECTLY IMPACT THE CONSTRUCTION COSTS. IF PROTECTED STREETS ARE PROPOSED TO BE DISTURBED, APPROVAL FROM THE STREET AND BRIDGE DIVISION OF THE TRANSPORTATION DEPARTMENT IS REQUIRED.

ELECTRIC GENERAL NOTES

- . AUSTIN ENERGY HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY AND OTHER OBSTRUCTIONS TO THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. AUSTIN ENERGY WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH CHAPTER 25-8, SUBCHAPTER B OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.
- 2. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROMDE AUSTIN ENERGY WITH ANY EASEMENT AND/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED, FOR THE INSTALLATION AND ONCOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. THESE EASEMENTS AND/OR ACCESS ARE REQUIRED TO PROMDE ELECTRIC SERVICE TO THE BUILDING AND WILL NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE OUT OF COMPLIANCE WITH CHAPTER 25-8 OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.
- 3. THE OWNER SHALL BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY INITIAL TREE PRUNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTER LINE OF THE PROPOSED OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROMDE ELECTRIC SERVICE TO THIS PROJECT. THE OWNER SHALL INCLUDE AUSTIN ENERGY'S WORK WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.
- In Construction for the property is responsible for maintaining clearances required by the national electric safety code, occupational safety and health administration (OSHA) regulations, city of Austin Rules and Regulations and texas state laws pertaining to clearances when working in close proximity to overhead power lines and equipment. Austin energy will not render electric service unless required clearances are maintained. All costs incurred because of failure to comply with the required clearances will be charged to the owner.

EROSION & SEDIMENTATION CONTROL

 EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN EROSION AND SEDIMENTATION CONTROL ORDINANCE.
 ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURE OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
 SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND

MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. SUCH INSTALLATION SHALL BE REGULARLY INSPECTED BY THE CITY OF AUSTIN FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE CITY ENGINEER, THEY ARE WARRANTED

4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION AND APPROVAL OF THE PROJECT BY THE ENGINEER AND THE CITY ENVIRONMENTAL INSPECTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE EACH STRUCTURE AS APPROVED BY THE ENGINEER.

GENERAL CONSTRUCTION NOTES

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS W PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST F OF THE WORK OF THE DESIGN ENGINEER.

2. CONTRACTOR SHALL CALL TEXAS 811 (811 OR 1-800-344-8377) FO PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.

3. CONTRACTOR SHALL NOTIFY THE CITY OF AUSTIN – SITE & SUBDIVISIO REQUIRED DOCUMENTATION, PAY CONSTRUCTION INSPECTION FEES, AND TO SITE AND SUBDIVISION PRE-CONSTRUCTION MEETING. THIS MEETING MUST E CONSTRUCTION ACTIVITIES WITHIN THE R.O.W. OR PUBLIC EASEMENTS. PLEAS HTTP://AUSTINTEXAS.GOV/PAGE/COMMERCIAL-SITE-AND-SUBDIVISION-INSPEC SUBMITTAL REQUIREMENTS, INFORMATION CONCERNING FEES, AND CONTACT

4. FOR SLOPES OR TRENCHES GREATER THAN FIVE FEET IN DEPTH, A NO STATING: "ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCO APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST TEXAS.)

ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REQUIREMEN

6. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOF THE ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE, DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPR RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE DEVELOPMENT SERVIC THE CITY LIMITS); OR INSTALLATION OF AN ELECTRIC OR WATER METER (IN

DEVELOPER INFORMATION

OWNER JUBILEE CHRISTIAN CENTER JIMMY SEAL

PHONE # (512) 627-3050 OWNER ADDRESS 2909 W WILLIAM CANNON DR AUSTIN, TX. 78745

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS HUNTER SHADBURNE P.E. AUSTIN CIVIL ENG

PHONE # <u>PHONE: (512) 306-0018</u>

PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAIN <u>CONTRACTOR TO BE SELECTED</u> PHONE # <u>PHONE: (512)</u> ____

PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAIN CONTRACTOR TO BE SELECTED PHONE # PHONE: (512) -

AMERICANS WITH DISABILITIES ACT

THE CITY OF AUSTIN HAS REVIEWED THIS PLAN FOR COMPLIANCE WITH CITY REGULATIONS ONLY. THE APPLICANT, PROPERTY OWNER, AND OCCUPANT OF THE PREMISES ARE RESP DETERMINING WHETHER THE PLAN COMPLIES WITH ALL OTHER LAWS, REGULATIONS, AND RESTRICTIONS W APPLICABLE TO THE PROPERTY AND ITS USE

FILL PLACEMENT & COMPACTION

THE BORROW SOILS INCORPORATED INTO THE EMBANKMENT SHOULD BE PLAC ALL LIFTS ARE BONDED TOGETHER, THE SPECIFIC DENSITIES ARE MET THROU MOISTURE CONTENT IS UNIFORM THROUGHOUT THE FILL, AND CLODS ARE B BONDED INTO THE REST OF THE LIFT THICKNESS SHOULD WITHOUT NESTING LOOSE LIFT THICKNESS SHOULD BE ABOUT 8 INCHES AND COMPACTED TO 9 METHOD TEX-113-E MOISTURE CONTENTS SHOULD BE MAINTAINED WITH THE OF OPTIMUM MOISTURE CONTENT. BORROW SOILS MORE THAN ABOUT 3% DR BE PRE WETTED IN THE BORROW AREA, AND SHOULD NOT BE PLACED ON TI MOISTURE CONTENTS HAVE EQUILIBRATED. THE EXISTING SLOPES SHOULD BE EMBANKMENT MATERIAL TO BE PLACED IN HORIZONTAL LIFTS, RATHER THAN I SLOPES.

COMPATIBILITY

PROPERTY.

1. HIGHLY REFLECTIVE MATERIALS WILL NOT BE USED. MATERIALS MAY NOT REFLECTIVITY. THIS REQUIREMENT SHALL NOT APPLY TO SOLAR PANELS OR T METAL ROOFS.

 THE NOISE LEVEL OF MECHANICAL EQUIPMENT WILL NOT EXCEED 70 D.B LINE ADJACENT TO RESIDENTIAL USES.
 ALL EXTERIOR LIGHTING SHALL BE HOODED OR SHIELDED FROM THE VIEW

RESIDENTIAL USES, OR PROPERTY ZONED RESIDENTIAL. 4. EXTERIOR LIGHTING ABOVE THE SECOND FLOOR IS PROHIBITED WHEN AD

5. ALL DUMPSTERS AND ANY PERMANENTLY PLACED REFUSE RECEPTACLES MINIMUM OF TWENTY (20) FEET FROM A PROPERTY USED OR ZONED AS SF-

ORDINANCE REQUIREMENTS

1. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASE ADDITIONAL IMPROVEMENTS WILL REQUIRE A SITE PLAN AMENDMENT AND APPE DEVELOPMENT SERVICES DEPARTMENT.

2. APPROVAL OF THIS SITE PLAN DOES NOT INCLUDE BUILDING CODE APPR APPROVAL; OR BUILDING, DEMOLITION, OR RELOCATION PERMITS APPROVAL. A RELOCATION PERMIT CAN ONLY BE ISSUED ONCE THE HISTORIC REVIEW PROCE

 ALL SIGNS MUST COMPLY WITH THE REQUIREMENTS OF THE CITY OF AU CODE. THE OWNER IS RESPONSIBLE FOR ALL COSTS OF RELOCATION OF, OR
 ADDITIONAL ELECTRIC EASEMENTS MAY BE REQUIRED AT A LATER DATE.

5. A SITE DEVELOPMENT PERMIT MUST BE ISSUED PRIOR TO AN APPLICATION FOR NONCONSOLIDATED OR LAND USE COMMISSION APPROVED SITE PLANS.

5. WATER AND WASTEWATER SERVICE WILL BE PROVIDED BY THE CITY OF

SERVICE PROVIDER IF OTHER THAN THE CITY OF AUSTIN.

7. NO CERTIFICATE OF OCCUPANCY MAY BE ISSUED FOR THE PROPOSED F PROJECT UNTIL THE OWNER OR OWNERS OF THE PROPERTY HAVE COMPLIED 82 OF THE PROPERTY CODE OF THE STATE OF TEXAS OR ANY OTHER STATU STATE CONCERNING CONDOMINIUMS.

8. FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, A R.O.W. EXCAVATION

FIRE DEPARTMENT

1. THE AUSTIN FIRE DEPARTMENT REQUIRES ASPHALT OR CONCRETE PA CONSTRUCTION AS AN "ALL-WEATHER DRIVING SURFACE."

2. HYDRANTS MUST BE INSTALLED WITH THE CENTER OF THE FOUR-INC 18 INCHES ABOVE FINISHED GRADE. THE FOUR-INCH OPENING MUST FAC STREET WITH THREE- TO SIX-FOOT SETBACKS FROM THE CURBLINE(S). N ALLOWED WITHIN THREE FEET OF ANY HYDRANT AND THE FOUR-INCH OP TOTALLY UNOBSTRUCTED FROM THE STREET.

3. TIMING OF INSTALLATION: WHEN FIRE PROTECTION FACILITIES ARE INS DEVELOPER, SUCH FACILITIES SHALL INCLUDE ALL SURFACE ACCESS ROAD INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF ALTERNATIVE METHODS OF PROTECTION, AS APPROVED BY THE FIRE CHIEF ABOVE MAY BE MODIFIED OR WAIVED.

4. ALL PERVIOUS/DECORATIVE PAVING SHALL BE ENGINEERED AND INST LIVE-VEHICLE ANY PERVIOUS/DECORATIVE PAVING WITHIN 100 FEET OF AN APPROVED BY THE FIRE DEPARTMENT.

5. COMMERCIAL DUMPSTERS AND CONTAINERS WITH AN INDIVIDUAL CAPA YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN TEN FEE COMBUSTIBLE WALLS, OR COMBUSTIBLE EAVE LINES.

6. FIRE LANES DESIGNATED ON SITE PLAN SHALL BE REGISTERED WITH MARSHAL'S OFFICE AND INSPECTED FOR FINAL APPROVAL.

7. VERTICAL CLEARANCE REQUIRED FOR FIRE APPARATUS IS 14 FEET ACCESS DRIVE.

	APPENDIX P-1 - EROSION CONTROL NOTES				
VITH THE ENGINEER WHO RELY ON THE ADEQUACY	1.THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).		TABLE 2: HYDROMULC	HING FOR PERM	IANENT VEGETATIVE ST
	CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE COA ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP, IF A SWPPP IS REQUIRED. IT SHALL BE AVAILABLE	Material	Description	Longevity	Typical Applicat
OR UTILITY LOCATIONS	FOR REVIEW BY THE CITY OF AUSTIN ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE	Bonded Fiber Matrix (BFM)	80% Organic defibrated fibers	3	
ON DIVISION TO SUBMIT	REVIEWED FOR PERMIT APPROVAL BY COA EV PLAN REVIEWERS AS WELL AS COA EV INSPECTORS. — PLAN SHEETS SUBMITTED TO THE CITY OF AUSTIN MUST SHOW THE FOLLOWING:			on slopes up to 2:1	
BE HELD PRIOR TO ANY SE VISIT	✓ DIRECTION OF FLOW DURING GRADING OPERATIONS. ✓ LOCATION, DESCRIPTION, AND CALCULATIONS FOR OFF-SITE FLOW DIVERSION STRUCTURES.			and erosive	2,500 to 4,000 per acre (see
CTIONS FOR A LIST OF INFORMATION.	✓ AREAS THAT WILL NOT BE DISTURBED; NATURAL FEATURES TO BE PRESERVED. ✓ DELINEATION OF CONTRIBUTING DRAINAGE AREA TO EACH PROPOSED BMP (E.G., SILT FENCE, SEDIMENT BASIN, ETC.)	10% tackifier	6 months	soil conditions	manufacturers recommendation
OTE MUST BE ADDED	✓ LOCATION AND TYPE OF E&S BMPS FOR EACH PHASE OF DISTURBANCE. ✓ CALCULATIONS FOR BMPS AS REQUIRED. ✓ LOCATION AND DESCRIPTION OF TEMPORARY STABILIZATION MEASURES.		65% Organic		
CORDANCE WITH ADMINISTRATION." (OSHA	✓ LOCATION OF ON-SITE SPOILS, DESCRIPTION OF HANDLING AND DISPOSAL OF BORROW MATERIALS, AND DESCRIPTION OF ON-SITE PERMANENT SPOILS DISPOSAL AREAS, INCLUDING SIZE, DEPTH OF FILL AND REVEGETATION		defibrated fibers 25% Reinforcing	3	On slopes up †
INFORMATION AND ST 6TH STREET, AUSTIN	PROCEDURES. ✓ DESCRIBE SEQUENCE OF CONSTRUCTION AS IT PERTAINS TO ESC INCLUDING THE FOLLOWING ELEMENTS:	Fiber Reinforced Matrix (FRM)	Fibers or less 10% Tackifier	Up to 12 months	1:1 and erosive conditions
	1.INSTALLATION SEQUENCE OF CONTROLS (E.G. PERIMETER CONTROLS, THEN SEDIMENT BASINS, THEN TEMPORARY		MATION [.]	-	
NTS.	2.PROJECT PHASING IF REQUIRED (LOC GREATER THAN 25 ACRES) 3.SEQUENCE OF GRADING OPERATIONS AND NOTATION OF TEMPORARY STABILIZATION MEASURES TO BE USED	OWNER <u>JUBILEE CH</u> PHONE # <u>(512) 627-3</u>	RISTIAN CENTER J	IIMMY SEAL	
R TO THE FOLLOWING, FILTRATION AND	4.SCHEDULE FOR CONVERTING TEMPORARY BASINS TO PERMANENT WQ CONTROLS 5.SCHEDULE FOR REMOVAL OF TEMPORARY CONTROLS	ADDRESS <u>2909 W WI</u> OWNER'S REPRESENTA	LLIAM CANNON DR	AUSTIN, TX. 78 PLAN ALTERATI	745 ONS: HUNTER SHAD
CES DEPARTMENT (INSIDE	6.ANTICIPATED MAINTENANCE SCHEDULE FOR TEMPORARY CONTROLS — CATEGORIZE EACH BMP UNDER ONE OF THE FOLLOWING AREAS OF BMP ACTIVITY AS DESCRIBED BELOW:	PHONE # (512) 300-0 PERSON OR FIRM RESI PHONE # (512) -	2005 2005 2005 2005 2005 2005 2005 2005	/SEDIMENTATIO	N CONTROL MAINTEN
THE FIVE-MILE ETJ)	3.1 MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL 3.2 CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT	PERSON OR FIRM RESI PHONE # <u>(512)</u>	PONSIBLE FOR TREE/NA	TURAL AREA PRC)TECTION MAINTENAN
	3.3 STABILIZE SOILS 3.4 PROTECT SLOPES 3.5 DEDTECT STOPM DRAIN INLETS	11.THE CONTRACTOR	SHALL NOT DISPOSE OF	SURPLUS EXCA	VATED MATERIAL FROM
	3.6 ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS 3.7 RETAIN SEDIMENT ON-SITE AND CONTROL DEWATERING PRACTICES	AND A COPY OF THE F	PERMIT ISSUED TO RECE	IVE THE MATERIA	AL.
	3.8 ESTABLISH STABILIZED CONSTRUCTION EXITS 3.9 ANY ADDITIONAL BMPS				
	— NOTE THE LOCATION OF EACH BMP ON YOUR SITE MAP(S).	1. IN ACCORDANCE	SAFEIT NU e with the laws (ILS DF THE STATE	OF TEXAS AND T
INTENANCE	— FOR ANY STRUCTURAL BMPS, YOU SHOULD PROVIDE DESIGN SPECIFICATIONS AND DETAILS AND REFER TO THEM.	AND HEALTH ADM	INISTRATION REGULA	ATIONS, ALL T LE SOIL SHALL	RENCHES OVER 5 _ BE SLOPED, SHO
NTENANCE	- FOR MORE INFORMATION, SEE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL 1.4.	EFFECTIVELY PROT SYSTEMS TO BE U	ECTED WHEN HAZA	RDOUS GROUN PROJECT SHAL	ND MOVEMENT MAY
	STANDARD NOTES FOR TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN	CONTRACTOR SHA SEALED BY A REC	LL BE RESPONSIBLE	FOR HAVING	THE TRENCH SAFE R IN THE STATE O
	4.A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND	2. IN ACCORDANC WHEN EMPLOYEES	ARE REQUIRED TO	BE IN TRENC	SAFELY AND HEAL HES 4 FEET DEEP 20VIDED AND LOCA
C DEVELOPMENT	TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE OWNER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT, 974-2278, AT	THAN 25 FEET OF 3. IF TRENCH SAF	LATERAL TRAVEL. ETY SYSTEM DETAIL	_S WERE NOT	PROVIDED TO THE
PONSIBLE FOR	ILEAST THREE DAYS PRIOR TO THE MEETING DATE. COA APPROVED ESC PLAN AND TPDES SWPPP (IF REQUIRED) SHOULD BE REVIEWED BY COA EV INSPECTOR AT THIS TIME. IS ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE	TRENCHES WERE A	ANTICIPATED TO BE ACHES ARE IN FACT	LESS THAN 5 5 FEET OR	5 FEET IN DEPTH A MORE IN DEPTH OF
VHICH MAY BE	APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY AUTHORIZED COA STAFF.	DEPTH ARE IN AN SHALL CEASE, TH	AREA WHERE HAZA E TRENCHED AREA	ARDOUS GROU Shall be ba	IND MOVEMENT IS RRICADED AND THI PRIATE TRENCH SAI
	MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL	DESIGNED BY A P AUSTIN.	ROFESSIONAL ENGIN	EER, ARE SU	BMITTED TO AND A
	6.THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR WITH EITHER A CERTIFIED PROFESSIONAL IN FROSION AND SEDIMENT CONTROL (CPESC) CERTIFIED FROSION SEDIMENT AND STORMWATER- INSPECTOR (CESSWI)		V D_6[
	OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE				AL IREE Ienitai ni
	FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE		MENTS FC	R TRF	FS WITH
CED IN LIFIS SUCH IHAI JGHOUT EACH LIFT, THE BROKEN DOWN AND	REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. 7.PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED. ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY		ICTION AF	/ΓΛΓΓΛΕ 2FΔς	
AND VOIDS. THE MAXIMUM	AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.	AS A COMPO	NENT OF AN EFFEC	TIVE REMEDIA	AL TREE CARE PR
RANGE OF -1% TO +3%	8.ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS; ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT.	REQUIRE SOIL AE	RATION AND SUPPL	EMENTAL NU	TRIENTS. SOIL ANI MENTAL NUTRIENT
BENCHED TO ALLOW THE PLATING THE EXITING	ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION. 9.TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW:	REQUIRE THESE A CONSIDERED WHE	ANALYSES AS PART	OF A COMP	REHENSIVE TREE (ION COMPOSITION
	A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF	TREE'S ABILITY TO SUPPLEMENTAL N) UPTAKE NUTRIEN UTRIENTS, THEN H	TS FROM THE	E SOIL. IF ANALYS
	EXISTING TREES. • TOPSOIL SALVAGED FROM THE EXISTING SITE IS ENCOURAGED FOR USE, BUT IT SHOULD MEET THE STANDARDS SET FORTH IN 6015	ORGANIC MATERIA	L OR BENEFICIAL MATCH	MICROORGANIS	SMS ARE NEEDED
T FXCFED 20%	AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE CRITERIA OF	TO APPLICATION. CONTRACTOR AND	THE OWNER OR GI	ENERAL CONT NATION WITH	RACTOR SHALL SE THE CITY ARBORIS
TO COPPER OR PAINTED	STANDARD SPECIFICATION 601S BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE	PRE-CONSTRUCT THE SEASON PRE INCLUDE THE ENT	JCTION TREATMENT	SHOULD BE OSED CONSTI	APPLIED IN THE RUCTION. MINIMALI
.B.A. AT THE PROPERTY	AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.	PLANS. TREATMEN MULCHING, AND F	IT SHOULD INCLUDI PROPER PRUNING.	E, BUT NOT	LIMITED TO, FERTI
EW OF ADJACENT	WELL-BLENDED MATERIAL.	POST-CONSTE DETERMINED BY A	RUCTION TREATMEN	T SHOULD OC	CUR DURING FINA
	THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:	RESULT IN A REE DENSITY. TO AME	UCTION IN SOIL M LIORATE THE DEGRA	ACRO AND M ADED SOIL C'	ICRO PORES AND ONDITIONS, AERATI
DJACENT TO RESIDENTIAL	1.FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH OR INCLUDE A COOL SEASON COVER CROP: (WESTERN	ARBORIST. THE P RESULTS NEED TO	ROPOSED NUTRIEN O BE PROVIDED TO	T MIX SPECIF	TCATIONS AND SO VED BY THE CITY
S WILL BE LOCATED AT A –5 OR MORE RESTRICTIVE.	WHEATGRASS (PASCOPYRUM SMITHII) AT 5.6 POUNDS PER ACRE, OATS (AVENA SATIVA) AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAIN (SECALE CEREALE) AT 45 POUNDS PER ACRE. CONTRACTOR MUST ENSURE THAT ANY SEED	APPLICATION (FAX 90 DAYS MAY US	(0). CONSTRU 2 RECOMMENI	CTION WHICH WILL DED RATES. ALTER
	OR PERENNIAL RYEGRASS (LOLIUM PERENNE). COOL SEASON COVER CROP DOES NOT UTILIZE ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) OR PERENNIAL RYEGRASS (LOLIUM PERENNE). COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.	MATERIALS ARE A FERTILIZATION IS	CCEPTABLE WHEN	APPROVED B	Y THE CITY ARBOR SHALL PROVIDE [
	OR A NATIVE PLANT SEED MIX CONFORMING TO ITEMS 604S OR 609S. A. FERTILIZER SHALL BE APPLIED ONLY IF WARRANTED BY A SOIL TEST AND SHALL CONFORM TO ITEM NO. 606S,	1088, AUSTIN, TX CONSTRUCTION.	78767. THIS NOT	E SHOULD B	E REFERENCED AS
PROVAL FROM THE	FERTILIZER. FERTILIZATION SHOULD NOT OCCUR WHEN RAINFALL IS EXPECTED OR DURING SLOW PLANT GROWTH OR DORMANCY. CHEMICAL FERTILIZER MAY NOT BE APPLIED IN THE CRITICAL WATER QUALITY ZONE.				
PROVAL; FIRE CODE	 C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION 		ND NAIU	RAL A	NREA PR
A CITY DEMOLITION OR CESS IS COMPLETED.	FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.	BEFORE CONST	RUCTION		
USTIN LAND DEVELOPMENT R DAMAGE TO, UTILITIES.	ENVIRONMENTAL CRITERIA MANUAL, AND STANDARD SPECIFICATIONS 604S OR 609S.	ALL IREES TREE PROT	AND NATURAL ARE	AS SHOWN (IN PLAN TO BE F
	TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION	FENCING F	OR TREE PROTECTI	ON SHALL BE	E CHAIN-LINK MES
ION FOR BUILDING PERMIT	Material Description Longevity Typical Applications Application rates	EXCEPT AS	ALLOWED IN ECM	3.6.1.B.4.	OT ZONE SUMUL
AUSTIN - OR IDENTIFY THE	100% or any blend of wood, cellulose, straw, 70% or arctic	UNFENCED WHFRF FFN	VCING IS LOCATED	5 FEET OR	LESS FROM THE 1
RESIDENTIAL CONDOMINILIM	and/or cotton plant Wood/Straw material (except no 30% or less	EROSION A	ND SEDIMENTATION	CONTROLS S	SHALL BE INSTALL
WITH CHAPTER 81 AND JTES ENACTED BY THE	mulch shall exceedPaper or0-3Moderate slopes;1,500 to 2,00030% paper)Natural Fibersmonthsfrom flat to 3:1Ibs per acre	DURING CONST	RUCTION		
	PERMANENT VEGETATIVE STABILIZATION:	TREES APP	ROVED FOR REMO	/AL SHALL BE	E REMOVED IN A
	1.FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL	FENCING M OR MATERIA	AY NOT BE TEMPO AL STORAGE OF AN	RARILY MOVEI IY KIND AND	D OR REMOVED D SHALL BE KEPT
	MOWED TO A HEIGHT OF LESS THAN ONE-HALF (½) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDAGRASS OR NATIVE	PRUNING S	HALL BE IN COMPI	_IANCE WITH	THE CURRENT AN
AVEMENT PRIOR TO	SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM-SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.	AFTER CONSTR	UCTION		
ICH OPENING AT LEAST	WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE	• TREE PROT 3.6.1.A.	ECTION SHALL BE	REMOVED AT	THE END OF THE
NO OBSTRUCTION IS	ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEMS 604S OR 609S. A. FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER.	LANDSCAPE	INSTALLATION WITH	HIN THE CRZ	OF PRESERVED 1
	APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY-OWNED AND MANAGED PROPERTY REQUIRES THE YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT COPY OF THE APPLICATOR'S LICENSE, FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY OF AUSTIN'S IPM	DOCUMENTA THIS LIST IS N	ATION OF TREE WO	RK PERFORM	ED MUSI BE PRO
ISTALLED BY THE DS WHICH SHALL BE	COORDINATOR. B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.	REFER TO	APPROPRIATE ECM	SECTIONS FO	OR FULL REQUIRE
EF, ARE PROVIDED, THE	C. WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER				
TALLED FOR 80,000 LB.	SOIL MAINTAIN THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL, MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE CHAPTER 6-4 (WATER CONSERVATION). AT RATES AND FREQUENCIES DETERMINED BY A				
NY BUILDING MUST BE	LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE AUSTIN WATER UTILITY AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVES.				
PACITY OF 1.5 CUBIC	D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 11/2 INCHES HIGH WITH A MINIMUM OF 95 PERCENT FOR THE NON-NATIVE MIX, AND 95 PERCENT COVERAGE FOR THE NATIVE MIX SO THAT ALL APEAS OF A SITE THAT BELV ON VECETATION FOR STAPILITY AUGT OF UNICOD STAPILITY AUGT OF				
	AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 16 SQUARE FEET. E. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN				
I CITT OF AUSTIN FIRE	ENVIRONMENTAL CRITERIA MANUAL, ITEMS 604S AND 609S.				
FOR FULL WIDTH OF					







	JRVEY LEGEND:	PROPERTY LINE EXISTING LOT LINE EXISTING EASEMENT		ENGINEERING, INC. TBPE FIRM # F-001018 9501 B MENCHACA RD, SUITE. 220 AUSTIN, TX 78748 PH: (512) 306-0018
LOT 60	 — 0E — 0E — — 0E = = 0E = = 0E = = 0E = <li< th=""><th> ADJOINER PROPERTY DEED LINES EDGE OF PAVEMENT OVERHEAD ELECTRIC BENCHMARK SET IRON PIPE FOUND [AS NOTED] 1/2" IRON ROD FOUND [UNLESS NOTED] 1/2" IRON ROD WITH "DOUCET" CAP SET </th><th></th><th>CALVIN J. WEIMAN 141995 SS/ONAL 07/14/23</th></li<>	 ADJOINER PROPERTY DEED LINES EDGE OF PAVEMENT OVERHEAD ELECTRIC BENCHMARK SET IRON PIPE FOUND [AS NOTED] 1/2" IRON ROD FOUND [UNLESS NOTED] 1/2" IRON ROD WITH "DOUCET" CAP SET 		CALVIN J. WEIMAN 141995 SS/ONAL 07/14/23
LOT 57 1.82 AC CURVE LENGTH C1 97.99' C2 101.99' C2 101.99' LINE BEAF L1 527'41 L2 N62'08 L3 N28'07	 Image: Solution of the second state of the second state	CHISELED + SET CALCULATED POINT GAS VALVE STORM SEWER MANHOLE TELEPHONE PEDESTAL ELECTRIC TRANSFORMER MANHOLE WATER VALVE POWER POLE DOWN GUY RECORD CALLS SEE SHEET 5 SEE SHEET 5 SEE SHEET 5 LINE TABLE LINE TABLE LINE TABLE LINE TABLE LINE BEARING DISTANCE LI1 S68'05'46"E 254.35' L12 S63'59'04"E 165.35' L13 S62'18'46"E 20.00'		THE OFFICES AT WILLIAM CANNON 3101 W WILLIAM CANNON DR AUSTIN, TEXAS 78745
L4 N62'09 L5 N27'55 L6 N72'24 L7 S62'28 L8 S64'05 L9 S68'54 L10 S70'43	9'19"W 749.18' 5'26"E 160.00' 4'02"E 28.28' 3'14"E 20.14' 9'04"E 242.42' 1'46"E 203.51' 5'46"E 11.79'	L14 S17'13'09"E 28.55' L15 S62'40'04"E 49.70' L16 N72'34'01"E 28.23' L17 S61'54'25"E 28.96' L18 S60'25'32"E 200.17' L19 S62'18'08"E 11.05'	LEV. DATE DESCRIPTION LEV. DATE DESCRIPTION LAPPROVED BY LAPPROVED BY	22-050 DATE: 7/14/23 ALE: EXISTING POGRAPHIC ANE REE SURVEY
THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORI AGREES TO BE FULLY RESPONSIBLE FO AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXAC LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	K. HE DR ANY DTLY	SP	SITE CIVIL PLAN	4 of 26

	THE SPECIES OF TREES SHOWN WERE DETERMINED TO THE BEST OF OUR ABILITIES BY ON THE GROUND SURVEY CREW, NOT A CERTIFIED ARBORIST. CONSULT A CERTIFIED ARBORIST FOR FINAL DETERMINATION OF SPECIES. NOTE ABOUT DEAD TREES: IF THE TREE APPEARED TO BE DEAD, THEN IT HAS BEEN NOTED AS DEAD; HOWEVER, SUCH DETERMINATION IS SUBJECT TO VERIFICATION BY A QUALIFIED ARBORIST.	CRITICAL ROOT ZONES (TREE CIRCLES) ARE SHOWN USING THE COA FORMULA FOR SINGLE AND MULTI TRUNK TREES. ASH = ASH CB = CHINABERRY CE = CEDAR ELM CDR = CEDAR HB = HACKBERRY LIG = LIGUSTRUM LO = LIVE OAK MSQ = MESQUITE remove = REMOVED TREE	TAG NO. TYPE INDICATES MULTI TRUNK 514 LO 17 14 11 INDIVIDUAL TRUNK DIA. (IN INCHES)
	1403 CDR 9 1 1404 HB 7 1 1405 CDR 10 1 1406 CDR 8 5 5 5 4 4 1 1406 CDR 8 5 5 5 4 4 1 1407 CDR 8 1 1408 CDR 9 7 7 1 1409 CDR 9 remove 1 1410 CDR 8 8 remove 1 1411 CDR 9 6 4 remove 1 1412 CE 7 remove 1 1413 CDR 8 remove 1 1414 CDR 12 8 7 6 6 remove 1 1415 CDR 9 8 remove 1 1416 CDR 10 remove 1 1418 CDR 8 6 5 5 1 1419 CDR 8 5 5 1	1383 CDR 9 1 1384 CDR 8 1 1385 CDR 14 1 1386 CDR 9 6 5 5 1 1387 CDR 10 1 1388 CDR 10 1 1387 CDR 10 1 1388 CDR 11 5 1 1389 CDR 9 1 1390 CDR 8 7 1 1391 CDR 8 7 6 6 1 1392 CDR 9 1 1393 CDR 9 1 1394 CDR 10 7 1 1395 CDR 9 remove 1 1396 CDR 8 remove 1 1397 CDR 8 remove 1 1398 CDR 8 1 1400 CDR 8 1 1401 CDR 13 1 1402 CE 11 1	1371 CDR 9 remove 1 1372 CDR 9 1 1373 CDR 12 remove 1 1374 CDR 9 7 7 remove 1 1375 CDR 8 6 remove 1 1376 CDR 9 remove 1 1377 CDR 9 7 6 6 remove 1 1378 CDR 9 remove 1 1379 CDR 9 remove 1 1380 CDR 12 6 remove 1 1381 CDR 9 remove 1 1382 CDR 8 1 1383 CDR 9 1
	452 CE 14 453 CE 10 8 7 454 CE 14 455 CE 13 456 CDR 13 457 CDR 9 458 MSQ 6 5 5 459 CDR 11 460 CDR 9 461 CDR 8 462 CDR 9 8 7 463 CDR 10 7 4 4 464 MSQ 7 465 MSQ 7 7 466 MSQ 8 7 6 467 CE 6 468 LO 17 16 12 7	432 CDR 13 10 433 CDR 12 434 CDR 14 435 CDR 13 436 CDR 8 437 CE 14 438 CE 14 439 CE 9 440 CE 9 441 CE 9 442 CE 8 443 MSQ 13 9 7 444 CDR 10 5 445 CDR 10 446 CDR 11 447 CDR 8 448 CDR 8 449 CDR 12 450 CE 13 12 451 CF 18 8	420 CDR 9 6 5 5 4 421 CDR 9 6 6 5 5 4 4 422 CDR 9 7 423 CDR 9 6 424 MSQ 9 8 7 4 425 CDR 10 426 MSQ 11 9 8 7 6 427 HB 8 428 MSQ 11 10 6 6 5 4 429 CE 7 430 MSQ 6 431 CE 10 432 CDB 13 10
	1501LO71502MSQ 71503LO1504CDR 81505CE1506LO141507LO1508LO1509LO1510CDR 91511LO1512LO1513CE1215141515CB121516LO71517CE10	1481 CDR 8 5 1482 CDR 11 1483 CDR 10 1484 CDR 10 1485 CDR 8 1486 CDR 13 13 8 7 6 1487 CDR 8 1486 CDR 10 1487 CDR 8 1488 CDR 10 1489 CDR 9 emove1490 CE 7 emove1491 CDR 11 9 8 7 4 1492 LO 22 1493 CE 9 1494 CDR 10 1495 CDR 8 1496 CDR 8 6 1497 CDR 9 1498 LO 31 8 1499 CDR 10 6 1500 CDR 9	1469 CE 6 1470 CE 6 1471 LO 10 1472 CE 12 1473 LO 17 1474 CE 10 1475 CE 9 1476 CDR 10 1477 CE 77 1478 CDR 8 6 1479 CDR 11 1480 CDR 9 1481 CDB 8 5
	1550LO 91551CDR 101552LO 11 101553LO 131554LO 171555LO 16 13 131556CDR 141557CDR 91558CDR 81559CDR 111560CDR 121561HB 7 61562LO 71563HB 71564LO 121565LO 171566LO 12	1530 $L0$ 8 1531 $L0$ 10 1532 $L0$ 11 1533 $L0$ 6 1534 $L0$ 11 1535 $L0$ 7 1536 $L0$ 7 1536 $L0$ 7 1537 $L0$ 9 1538 $L0$ 7 1539 $L0$ 9 1540 $L0$ 8 1541 $L0$ 11 1542 $L0$ 6 1543 $L0$ 6 1544 $L0$ 10 1545 $L0$ 12 1546 $L0$ 16 1547 CDR 13 1548 CDR 13 1549 $L0$ 17	1518 L0 10 1519 L0 7 1520 L0 6 1521 L0 7 1522 L0 7 1523 L0 7 1524 CB 6 1525 CDR 8 1526 L0 12 9 1527 L0 6 1528 L0 7 1529 L0 7
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1579 CDR 12 6 1580 CDR 10 9 1581 CDR 9 1582 CDR 8 8 8 7 6 6 5 1583 CDR 10 1584 CDR 9 8 6 1585 CDR 8 4 1586 CDR 12 10 9 8 1587 LIG 6 6 5 3 1588 CDR 9 7 5 4 1589 CDR 11 10 8 7 1590 CDR 11 1591 CDR 12 1592 CDR 9 1593 LIG 10 1594 CDR 8 6 5 1595 CDR 9 9 9 5 1596 L0 10 1597 L0 8 1598 L0 6	1567 CE 11 1568 CDR 12 1569 LO 9 1570 LO 9 1571 LO 9 1572 CDR 15 7 7 1573 CDR 10 1574 LO 17 15 13 1575 CDR 9 1576 CDR 16 9 6 6 1577 CDR 11 1578 CDR 9 7 1579 CDR 12 6
	1648 L0 6 1649 L0 7 1650 L0 7 1651 L0 7 1652 CE 14 1653 L0 9 1654 L0 10 1655 L0 8 1656 L0 7 1657 CDR 8 1658 ASH 16 1659 CDR 10 1660 CDR 15 1661 CDR 9 1662 CDR 11 1663 CDR 11 1664 CDR 9	1628L07 1629 L09 1630 L027 1631 CE9 1632 CDR9 1633 CDR9 1634 CDR12 1635 L021 1436 L013 1636 L013 1637 CDR10 1638 CDR9 1639 L032 1640 L09 1641 L011 1642 L011 1643 L011 1644 L020 1645 L016 157 1646CE 1647 L06	1616 CDR 12 6 5 5 1617 CDR 8 7 5 5 4 1618 CDR 10 1619 CDR 12 10 9 1620 CDR 10 8 1621 LO 9 1622 LO 6 1623 LO 13 1624 LO 19 1625 LO 10 1626 CDR 9 1627 CDR 9 1628 LO 7
	1697 CE 9 1698 CE 7 1699 CE 18 1700 CE 7 1701 LO 7 1702 LO 26 1703 CE 17 1704 CE 12 1705 CE 25 1706 CE 22 1707 CE 11 1708 CE 6 1709 CE 6 1710 CE 6 1711 CDR 13 1712 CB 12 9 1713 CB 10	1677 HB 18 1678 HB 95 1679 HB 10 1680 CE 10 1681 CE 9 1682 CE 11 1683 CE 7 1684 CE 96 1685 L0 29 19 1686 CE 6 1687 L0 6 1688 HB 7 1689 CE 7 1690 CE 7 1691 CE 8 1692 CE 10 1693 CE 14 1694 CE 8 1695 CE 8 1696 CE 9	1665 HB 7 1666 HB 14 1667 HB 7 1668 HB 13 1669 HB 7 1669 HB 7 1670 HB 9 1671 CE 7 1672 CE 6 1673 CE 7 1674 CE 6 1675 HB 11 1676 HB 9 7
	1746CDR 11 6 6 6 51747CDR 10 10 101748CDR 11 7 6 51749CDR 8 51750CDR 121751CDR 10 9 51752MSQ 9 81753CDR 9 8 5 51754CDR 9 8 61755CDR 151756CDR 161757CDR 9 8 6 51759CE 81760CE 71761CE 101762CE 8	1726 CE 9 1727 CDR 10 1728 CDR 12 1729 LIG 7 3 3 3 1730 CDR 8 7 5 1731 CDR 10 6 1732 CDR 10 1733 CDR 10 1734 CE 8 8 5 1735 CDR 9 7 6 1736 CE 8 1737 CDR 10 1738 CDR 9 4 4 1739 LIG 8 6 1740 CDR 8 7 6 5 1741 CDR 12 7 7 1742 CDR 11 7 1743 CDR 8 1744 CDR 10 10 8 8 5 1745 CDR 8 5 4	1714 CE 10 1715 CE 10 1716 CE 15 1717 CE 8 1718 CDR 12 1719 CE 6 1720 CDR 9 1721 CDR 15 1722 CDR 9 1723 CE 7 1724 CDR 13 10 9 6 1725 LIG 6 5 4 3 3 1726 CE 9
	1795CE 91796L0 151797L0 181798L0 151799CE 71800CE 71801CDR 91802CE 101803L0 161804CDR 91805CE 101806CE 141807CDR 91808CE 131809MSQ 151810CDR 131811CB 7 6	1775 L0 9 1776 L0 13 1777 CE 8 1778 CDR 13 1779 L0 7 1780 L0 8 1779 L0 7 1780 L0 8 1779 L0 7 1780 L0 8 1781 CE 11 1782 CE 6 1783 CE 7 1784 CDR 9 1785 CE 7 1786 CE 7 1787 CE 8 1788 CE 9 1789 L0 12 1790 CDR 11 1791 CE 15 1792 CE 9 1793 CE 10 1794 CE 8	1763 CE 10 1764 CDR 9 1765 CE 10 1766 CDR 9 1767 CDR 8 1768 CE 8 1769 CDR 9 6 1771 CE 7 1772 CE 10 1773 CDR 8 1774 CDR 7
	1978 CE 6 1979 L0 16 1980 L0 7 1981 L0 9 1982 L0 9 1983 L0 10 1984 L0 8 1985 CE 7 1986 CE 8 1987 CE 11 1988 L0 13 7 1989 L0 11 1990 L0 10 1991 L0 8 1992 L0 13 1993 CDR 8 8 6 5 5 1994 CDR 8	1824 CDR 9 1825 L0 10 1826 L0 16 1827 L0 12 1828 CE 10 1829 CDR 11 1830 L0 7 1831 CDR 9 5 1832 CDR 10 1967 CE 12 11 1968 CDR 10 1969 CDR 9 8 1970 L0 8 1971 CDR 9 1972 CDR 8 1973 L0 11 1974 CE 7 1975 CE 8 1976 CDR 11 1977 CF 11	1812 L0 7 1813 CB 7 6 1814 L0 9 8 1815 L0 10 10 7 1816 CDR 9 1817 CB 8 6 1818 L0 7 7 2 1819 LIG 7 1820 CDR 9 6 1821 CE 12 7 1823 CE 8 5 1824 CDB 9
SP			1995 LO 6 1996 LO 8 1997 LO 7 1998 LO 7 1999 LO 8 2000 LO 8 8
LIND HE LIST	OFFICES AT WILLIAM CANNON 3101 W WILLIAM CANNON DR AUSTIN, TEXAS 78745	Level of the second sec	AUSTIN CIVIL BUSTIN CIVIL IGINEERING, INC. IBPE FIRM # F-001018 9501 B MENCHACA RD, SUITE. 220 AUSTIN, TX 78748 PH: (512) 306-0018







	0	40	80	160	
SURVEY L	EGEND:				

 PROPERTY LINE
 EXISTING LOT LINE
 EXISTING GRADES

LEG	END
PROPOSED	DESCRIPTION
	ZONE DIVISION
	EX. DRAINAGE AREAS
CWQZ	CRITICAL WATER QUALITY ZONE
WQTZ	WATER QUALITY TRANSITION ZONE
CL	CREEK CENTERLINE
-	FLOW ARROW
——————————————————————————————————————	TIME OF CONCENTRATION

CITY APPROVAL STAMP

SP-

-



THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.







	ZONE DIVISION
	DEV. DRAINAGE AREAS
CWQZ	CRITICAL WATER QUALITY ZONE
WQTZ	WATER QUALITY TRANSITION ZONE
	CREEK CENTERLINE
-	FLOW ARROW
—— Tc ——	TIME OF CONCENTRATION

CITY APPROVAL STAMP

SP-

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EXIWI 16 EX WL16 LIAMSON CREEK WATERSHED \cup LOT-58 1.73 AC 1____

> THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



	Lots 57-5	8, Property	of Jubilee Ch	ristian Cen	ter			
	SUBURBAN WATERSHED	S						
	NOTE: Q-1 TABLES ARE	NOT REQUIRE	D FOR SUBURBA	N WATERSH	IEDS			
er	1. Impervious cover allow	ved at =	X		=		Acres	
	Proposed Impervious Co	ver						
	2. Existi	ng Impervious	Cover Proposed to	Remain	=	1.44	Acres	
water supply	3.	Propo	sed New Impervio	us Cover	=	0	Acres	
	4.	Total pro	posed imperviou	is cover	=	0.00	Acres	
Acres								
	Allowable Impervious Co	over Breakdov	wn by Slope Cate	egory				
Acres	5. Total Acrea	ige with Slopes	s 15-25% =		Acres	X 10%		0 Acre
Acres								
Acres	Proposed Impervious Co	ver on Slope	5	_				
Acres				Imperv	vious Cove	er		
Acres	Slopes		Buildings/and	other imperv	vious cove	r	Drives	/ Road
	Slope Categories	Acres	Acres	% of C	ategory		Acres	;
8.26 Acres	6. 0-15%	0.000	0.000	0.00	0		0.000	
0.66 Acres	7. 15-25%	0.000	0.000	0.00	0			
0.05 Acres	8. 25-35%	0.000	0.000	0.00	0			
0.00 Acres	9. Over 35%	0.000	0.000	0.00	0			
8.96 Acres	10. Gross Site Area	0.000						

			Existing and Proposed impervious cover rable	12.00	20103
	PROF	TOTAL EX and PROP			
LOC Area ac	TOTAL	percent	524,027 square feet		
sq ft	Sq. ft.	%		SF	%
	18,381	6.62%	EX and Prop Buildings =	18,381	3.5%
	40,880	14.73%	EX and Prop Parking and Drives =	73,001	13.9%
	2,462	0.89%	EX and Prop Sidewalk/Others	2,489	0.5%
	61,723	22.24%	Total Existing and Proposed Impervious Cover =	93,870	17.9%
	1.42	AC		2.15	AC

1.03	1.03 acres		acres	s 1.37 acres 1.56 acres 1.73 acres		1.71	1.71 acres		acres	1.82				
	T 60		T 64		T 50		T 60		T E A		T 66		F F0	
	01 50		1 51		1 52	LO	1 53) 54		01 55		96 1	
SF	%	SF	%	SF	%	SF	%	SF	%	SF	%	SF	%	SF
0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	12,843	17.2%	19,277
0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	27	0.0%	0
0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	12,871	17.3%	19,277



THE OFFICES AT WILLIAM CA	NNON
Parking Table:	
Required Parking Ratio:	space
Prop Medical / Mixed Use	
Office - 2 Story	
	-
Proposed and Existing Parking	g:
Pi	ropose
	Pro
Existing Jubilee	Churc
Bicycle Parking:	
The greater of: 5% of provided pa	irking (

l								
	SE of Ruilding	Required						
e per BLDG SF	SF OF Building	Parking Spaces						
1 to 275	36,762	134						
Total Parking Sp	aces Required =	134						
ed Regular Spaces	9.0' x 18.5'	95						
posed HC Spaces	9.0' x 18.5'	5						
ch Regular Spaces	9.0' x 18.5'	40						
Total P	arking Spaces =	140						
or 5 spaces	5% =	7						
Total Bicycle Spa	Total Bicycle Spaces Proposed =							

Site Information for Lots 52, 53, 54, and 55:			
		PROF	OSED
Gross Site Area = 6.37 acres	LOC Area 3.891 ac	TOTAL	percent
277,477 square feet	169,491 sq ft	Sq. ft.	%
Buildings =		18,381	6.62%
Parking and Drives =		40,880	14.73%
Sidewalk/Others		2,462	0.89%
Total Proposed Impervious Cover =		61,723	22.24%
		4.40	40
		1.42	AC
		1.42	AC
THE OFFICES AT WILLIAM CANNON		1.42	AC
THE OFFICES AT WILLIAM CANNON Site Information for Lots 52, 53, 54, and 55:		1.42	AC
THE OFFICES AT WILLIAM CANNON Site Information for Lots 52, 53, 54, and 55:		EXIS	STING
THE OFFICES AT WILLIAM CANNON Site Information for Lots 52, 53, 54, and 55: Gross Site Area = 6.37 acres		EXIS	STING percent
THE OFFICES AT WILLIAM CANNON Site Information for Lots 52, 53, 54, and 55: Gross Site Area = 6.37 acres 277,477 square feet		EXIS TOTAL Sq. ft.	AC STING percent %
THE OFFICES AT WILLIAM CANNON Site Information for Lots 52, 53, 54, and 55: Gross Site Area = 6.37 acres 277,477 square feet Existing Buildings =		TOTAL Sq. ft. 0	AC STING percent % 0.00%
THE OFFICES AT WILLIAM CANNON Site Information for Lots 52, 53, 54, and 55: Gross Site Area = 6.37 acres 277,477 square feet Existing Buildings = Existing Parking and Drives =		1.42 EXIS TOTAL Sq. ft. 0 0	AC 5TING percent % 0.00% 0.00%







					$\overline{\mathbf{v}}$							
					V						-	
TA: 0+	-00.00	10 51/	4:5+4	0.00								
												FXIS
												LAIO
										└──── \ \	H SCALE. I	=20 1=2
												EN SOR 11
											63.52 01 12	5
											STA:4+15.42 FL:740.73	
											-	
								102.15' of	1.25" FM SDR 11 HDPE @	9 6.54%		
						STA:3+13.27 FL:734.05						
	\\	153.27' of 1.25" FM SD	R 11 HDPE @ 2.75%									
	-	40			-						 	
00	2+	- 40	2+	-80	3+	-20	3+	-60	4+	· UU	4+	-40



+	-60	8+	-00	8+	-40	8+	80	9+	-20	9+	-60	10-	-00
							<u> </u>						
/													
										L:783.87			125.68' (
									0.472)+55.33]			
							/						
		STA	: 5+40	.00 TO	STA: ⁻	11+36.	40						
		1.25	5" SDR	11 HD	PE FM	PROF	ILE VIE						

WQ POND CROSS SECTION

	<u>-</u>	'PARTIAL'' BIO	APPENDIX R-		IONS			
DRAINAGE ARE		<u>rok</u>		ERMITS				
Drainage Area to	Control (DA) =			3.35	acres			
Drainage Area Im	npervious Cover (IC)	=		2.16	acres	64.4	% I.C.	
Capture Depth, C	CD = 0.5"+((IC-20)/10	00) =		0.94	inches			
WATER QUALIT	Y CONTROL CALC	ULATIONS						
The Water Qualit	ty Control is to be P	ARTIAL BIOFIL	TRATION					
25-year Peak Flo	ow Rate to control (C	₂₅) =		23.30	cfs			
100-year Peak F	low Rate to control (Q ₁₀₀) =		31.4	cfs			
				Reau	uired	Prov	ided	
Water Quality Vo	olume (WQV = CD*D)A*3630)		11,482	cf.	11,898	cubic feet	
Maximum Pondir	ng Depth above Filte	r Medium (H)				2.00 feet		
For Partial Sedim	nentation Biofiltration	Pond Volume (min.=20% WQV)	2,296		3,884 feet		
Filtration Basin A	Area			1,724	sq feet	3,562 Sq teet		
Filtration Pond V	olume			n/a	<u>CI.</u>			
Water Quality El	evation			732 75	ftmsl			
Elev. of Splitter V	Veir (>= WQelev)			WQ ele	evation	732.75 ft msl		
Length of Splitter	r Weir					40	feet	
Required Head to	o Pass Q ₁₀₀			maximu	m 1.0 ft	0.41 feet		
Water Quality Po	ond Freeboard Provid	led Above Q _{100 H}	ead	minimun	n 0.25 ft	0.84 feet		
Surface Area of S	Sedimentation Pond	(SA)		2614	sf	2614	ef	
Sedimentation P	ond Plantings (min.	(0, () 10% of SA)		261	plants	261	plants	
Filtration Pond P	lantings (Min. 20% o	of Filtration Area)	345	plants	712	plants	
					·,			
Sedimentation	Pond		Cumulative	Filtration Po	nd		Cumulative	
Stage (msl)	Area (sq ft)	Storage (cf)	Storage(cf)	Stage (msl)	Area (sq ft)	Storage (cf)	Storage(cf)	
730.75	0	0	0	730.50	3562	0	0	
731.00	643	53.6	54	731.00	3562	1,781	1,781	
731.25	1307	238.9	292	731.25	3562	891	2,672	
731.50	1967	406.4	699	731.50	3562	891	3,562	
/31.75	2614	570.7	1,270	731.75	3562	891	4,453	
/32.00	2614	653.5	1,923	/32.00	3562	891	5,343	
/32./5	2614	1,960.5	3,884	/32./5	3562	2,672	8,015	
733.00	2014	000.0 2 614 F	4,037	733	2002	091	0,900	
134.00	2013	∠,014.0	7,152	/ 34	2003	3,302	12,407	

1

IAM.	AM CANNON DRIVE													
ENT		D OUTFL	.OW STR	UCTURE										
	(ff)	1 000	(ff)	3 000										
	H (ft)	1.000	H (ft)	1.000										
	Orifice	0.6	Orifice	0.6	Weir	C=3 0	Weir	C=3 0	Total					
Total	<u>A =</u>	1.00	<u>A =</u>	3.00	L (ft) =	8.00	L (ft) =	14.00	Flow					
	729.00	flowline	732.00	flowline	733.00	flowline	733.10	flowline						
	729.5	Centerline	732.5	Centerline										
	Orifice H		Orifice H											
	(to top)		(to top)											
tion	н	Q (cfs)	Н	Q (cfs)	н	Q (cfs)	н	Q (cfs)	Q (cfs)	elevation				
00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	729.00				
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	729.50				
00	0.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	3.40	730.00				
50	1.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	4.81	730.50				
00	1.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	5.90	731.00				
50	2.00	6.81	0.00	0.00	0.00	0.00	0.00	0.00	6.81	731.50				
00	2.50	7.61	0.00	0.00	0.00	0.00	0.00	0.00	7.61	732.00				
50	3.00	8.34	0.00	0.00	0.00	0.00	0.00	0.00	8.34	732.50				
00	3.50	9.01	0.50	10.21	0.00	0.00	0.00	0.00	19.22	733.00				
50	4.00	9.63	1.00	14.44	0.50	8.49	0.40	10.63	43.19	733.50				
00	4.50	10.21	1.50	17.69	1.00	24.00	0.90	35.86	87.77	734.00				

WILLIAM	CANNO	N DRIVE								
DETENT		D OUTFL	.OW STR	UCTURE						
	L (ft)	1.000	L (ft)	3.000						
	H (ft)	1.000	H (ft)	1.000						
	Orifice	0.6	Orifice	0.6	Weir	C=3.0	Weir	C=3.0	Total	
Total	A =	1.00	A =	3.00	L (ft) =	8.00	L (ft) =	14.00	Flow	
	729.00	flowline	732.00	flowline	733.00	flowline	733.10	flowline		
	729.5	Centerline	732.5	Centerline						
	Orifice H		Orifice H							
	(to top)		(to top)							
elevation	н	Q (cfs)	н	Q (cfs)	н	Q (cfs)	н	Q (cfs)	Q (cfs)	elevation
729.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	729.00
729.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	729.50
730.00	0.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	3.40	730.00
730.50	1.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	4.81	730.50
731.00	1.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	5.90	731.00
731.50	2.00	6.81	0.00	0.00	0.00	0.00	0.00	0.00	6.81	731.50
732.00	2.50	7.61	0.00	0.00	0.00	0.00	0.00	0.00	7.61	732.00
732.50	3.00	8.34	0.00	0.00	0.00	0.00	0.00	0.00	8.34	732.50
733.00	3.50	9.01	0.50	10.21	0.00	0.00	0.00	0.00	19.22	733.00
733.50	4.00	9.63	1.00	14.44	0.50	8.49	0.40	10.63	43.19	733.50
734.00	4.50	10.21	1.50	17.69	1.00	24.00	0.90	35.86	87.77	734.00

WATER QUALITY SPLITTER BOX CALCULATIONS

H = (Q₁₀

- Design Peak Flow Rate = **Q**_{DEV100} =
- Water Quality Elevation = Elevation of Overflow Weir(>= WQelev) = 75
- Length of Overflow Weir (L) = Weir Coefficient (C) = Required Head to Pass Design Flow (H) =
 - High Water (100-yr) Elevation = 73
- Top of Splitter Box Wall = 73 Water Quality Pond **Freeboard** Provided =

Detention Pone	b		Cumulative			PC	ND	
Stage (msl)	Area (sq ft)	Storage (cf)	Storage(cf)	24-HR STORM EVENT	PEAK Qin (cfs)	PEAK Qout (cfs)	PEAK STORAGE (ac-ft)	PEAK ELEVATION (ft)
729.00	0	0.0	0.0	2-YR	10.90	6.40	0.08	731.28
730.00	810	270.0	270.0	10-YR	18.30	7.90	0.26	732.22
731.00	4,284	2318.8	2588.8	25-YR	23.30	12.00	0.36	732.67
732.00	8,802	6408.7	8997.5	100-YR	31.40	22.10	0.46	733.06
733.00	11,184	9969.2	18966.7					I
734.00	11,184	11184.0	30150.7					
		Total Storage	30150.7					

Total Storage =

Sedimentation Pond =

7,152

33% of WQV

Total Storage =

Filtration Pond =

8,905 12,467 891

67% of WQV

3,562

12,467

Scale: 1:20

Q ₁₀₀ /(C*L)) ^{2/3}		H = ((Q ₂₅ /CA)^2)/2g
31.4 cfs	Q _{DEV 25} =	23.30 cfs
32.75 MSL	Orifice FL in Spitter Box =	731.50 MSL
32.75 MSL	4 opening height =	1.00 foot
	width =	3.0 foot
	Orifice area (A) =	12.0 sq feet
40.00 feet	Orifice centerline =	732.00 MSL
3.0	Orifice Coefficient (C) =	0.60
0.41 feet	Head on orifice (H) =	0.16 feet
33.16 MSL	Low water (25-yr) Elevation =	732.16 MSL
34.00 MSL		
0.84 feet		
	MSL = Mean Sea Level	

DRAWDOWN CALCULATIONS:	
(WQ Pond to filt. Pond)	
Required volume =	11,898 cft
Time period =	48 hours
Rate =	0.069 cfs
Orifice Elevation	727.00 ft
Max water surface =	733.16 ft
Avg. water head =	3.08 ft
Orifice Coefficient, C=	0.6 in
Gravity=	32.2 ft/s/s
<u>Min. orifice size =</u>	<u>1.22</u> in

exas Commission on Environmental Quality						
SS Removal Calculations 04-20-2009	P Da	roject Nam te Prepare	e: The Offices at d: August 28, 202	William Car 23	inon	 ENGINEER'S DESIGN. PROTECTIVE SOIL LAYER PER REQUIREMENTS.
The Required Load Reduction for the total project:	(Calculations	from RG-348 Pages	3-27 to 3-30		POND
Page 3-29 Equation	on 3.3: L _M = 2	27.2(A _N x P)				WATER QUALITY ELEVAT
where: L _{M TOT}	TAL PROJECT =	Required TS	S removal resulting fro	om the		
	A _N = 1	Net increase	in impervious area for	r the project		SUIL LATER
Site Data: Determine Required Load Removal Rased on the	P = /		ual precipitation, inche	es		GEOMEMBRANE LINER
	County =	Travis				
Predevelopment impervious area within the limits of	the plan * =	<u>3.89</u> 0.14	acres			RETAINING \
Total post-development impervious area within the limits o Total post-development impervious cove	f the plan* = r fraction * =	1.42 0.365	acres			
	P =[32	inches			CITY OF AUSTIN WATERSHED PROTECTION DEPARTMEN
L _{M TOT}	AL PROJECT =	1114	■lbs.			My hy R.E. I
Number of drainage basins / outfalls areas leaving the	e plan area =	1	٦			NOTES: GEOMEMBRANE MUST HAVE A MINIMU
Drainage Basin Parameters (This information should be p	provided for e	each basin)	<u>:</u>			RESISTANT. USE OF A GEOMEMBRAN BE PLACED ON THE TOP AND BOTTOM PARTICLES GREATER THAN 0.375 INC
Drainage Basin/Outfall	Area No. =	1	٦			SURFACE, RESPECTIVELY. THE GEOT 8 OZ./SQ. YD., A MINIMUM PUNCTURE
Total drainage basin/c	outfall area =	3.35	acres			STRENGTH OF 400 PSI, AND A MINIMU
Predevelopment impervious area within drainage basin/o	outfall area =	0.14	acres			
Post-development impervious fraction within drainage basin/c	outfall area =	1.42 0.42				T.O.W. EL: 734.00
L	M THIS BASIN =	1114	Ibs.			EL: 732.50
Indicate the proposed BMP Code for this basin.		Bioretentio	n			3' x 1' WINDOW EL: 731
Propo Removal	osed BMP = I efficiency =	Retention / 100	Irrigation			
Calculate Maximum TSS Load Removed (L_) for this Drai	nage Basin k	ov the seler	ted BMP Type			15
	37 - 7		$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$	+ 4 × 0.54)		-
	л 3.7. L _R – (icy) x F x (A x 04.0 1	+ Α _Ρ X 0.34)		
where:	$A_{\rm C} = -$ $A_{\rm I} = -$	Total On-Site Impervious a	e drainage area in the rea proposed in the Bl	BMP catchment	nt area area	4
	A _P = F	Pervious are	a remaining in the BM	IP catchment a	rea	
	$L_R = -$	TSS Load re	moved from this catch	nment area by t	he proposed BMP	Biofiltration Bed Configuratio
	A _C =	3.35	acres			
	A _I = A _P =	1.57 1.7800	acres acres			
	L _R =	1769	lbs			
Calculate Fraction of Annual Runoff to Treat the drainage	basin / outfa	all area	٦			
Desired L _N	M THIS BASIN =	1114	■lbs.			18" MIN.
	F =	0.63	•			2" MIN.
Calculate Capture Volume required by the BMP Type for	this drainage	e basin / ou	tfall area.	0.0446.0.00		T <u>····································</u>
Dei	(inches	5 3-34 10 3-36		6" PVC PIPE SET PEFORATIONS DOWN
Rain Post Development Runoff C	Coefficient =	0.84	Inches			
On-site vvater Quair	ty volume =	2636	cubic teet	2 26 to 2 27		Α.
Off.site area drainir	na to BMP =			5-50 10 5-57		CITY OF AUSTIN WATERSHED PROTECTION DEPARTMEN
Off-site Impervious cover drainin	ng to BMP =	0.00	acres			I'm Kny, R.E. 12
Off-site Runoff	Coefficient =	0.00	•			<u> </u>
Off-site Water Quali	ty Volume =	0	cubic feet			
Storage for Total Capture Volume (required water quality volume	Sediment = $(s) \times (1, 20) =$	527 3163	cubic feet			
Total Capture volume (required water quanty volume	(3) × 1.20) -	5105				
						_12"
						5
STORM CONTROL MEASURES CONSTRUCTION AND -E	BIWEEKLY DU	IRING FIRST	GROWING SEASON: TIL 95% VEGETATIVF			
PROPER MAINTENANCE IS AS IMPORTANT AS C ENGINEERING DESIGN AND CONSTRUCTION IN	OVER IS EST	ABLISHED.				
ORDER TO ENSURE THAT WATER QUALITY -N CONTROLS, REFERRED TO HEREIN AS STORMWATER R	MONTHLY: CH EMOVE AS NI	IECK FOR A	CCUMULATED SEDIME	ENTS,		
CONTROL MEASURES (SCMS), WILL FUNCTION -(EFFECTIVELY. SECTION 25-8-231 OF THE LAND S	QUARTERLY:	REMOVE DE PLACE SOII	BRIS AND ACCUMULA MEDIA IN VOID AREA	ATED AS	BIOFILTRATION MED	
DEVELOPMENT CODE REQUIRES MAINTENANCE BE C PERFORMED ON SCMS WHEN NECESSARY AS R	AUSED BY SE EMULCH BY H	ETTLEMENT HAND ANY V	REPAIR ERODED AR OID AREAS.	REAS;	CHARACTERISTICS,	THE BIOFILTRATION MEDIUM S
DEFINED BY THIS SECTION. STORMWATER CONTROL MEASURES REQUIRED FOR	SEMI-ANNUAL	LY: REMOVI	E AND REPLACE DEAL	DOR		MATTER (BY WEIGHT) OF 0.5–5.0%
COMMERCIAL AND MULTI-FAMILY DEVELOPMENTDSHALL BE MAINTAINED BY THE PROPERTY OWNER.B	ISEASED VEO EYOND TREA	GETATION TI TMENT (SEE	HAT IS CONSIDERED			-90%
THE DESIGN OF DRAINAGE FACILITIES (INCLUDING S BUT NOT LIMITED TO HEADWALLS, OPEN CHANNELS, S	PECIFICATIO	NS); TREAT	ALL DISEASED TREES OR BY HAND DEPEND	S AND	PERCENT SILT PLU	S CLAY ≤27% I TRATION MEDIA MUST HAVE LADOL
STORM SEWERS, AREA INLETS, AND DETENTION, CONTROL D	N THE INSEC RAWDOWN E	T OR DISEA XCEEDS TH	SE INFESTATION. IF E DRAWDOWN TIME		A MINIMUM OF SIX	MONTH INTERVALS TO VERIFY P
MEASURES AND THEIR APPURTENANCES) SHALLACOMPLY WITH THE REQUIREMENTS OF SECTIONS	CCORDING T	O SECTION	1.6.3.C.1, LIGHTLY SC TOR; IF STANDING WA	ARIFY ATER	FREE OF ANY HOUSE	EHOLD OR HAZARDOUS WASTE. IT M
	FMAINS FOR	GREATER T	HAN 96 HOURS, REM	OVE		

MANUAL. **BIOFILTRATION SCM NOTES** LANDSCAPES SHALL BE DESIGNED TO ALLOW FOR

THE ACCESS AND AID THE MANEUVERABILITY OF MAINTENANCE EQUIPMENT (E.G., IF AREAS OF THE POND ARE DESIGNED TO BE MOWN, ACUTE ANGLES SHOULD BE AVOIDED IN TURF AREAS; WIDE ANGLES, GENTLE, SWEEPING CURVES, AND STRAIGHT LINES ARE EASIER TO MOW)

SECTION 1.6.3.B OF THE ENVIRONMENTAL CRITERIA

ROUTINE MAINTENANCE: UNLESS DAMAGED BY UNUSUAL SEDIMENT LOADS, HIGH FLOWS, OR VANDALISM, THE BIOFILTRATION MEDIA SHOULD BE LEFT UNDISTURBED AND ALLOWED TO AGE NATURALLY, AND BIOFILTRATION POND VEGETATION SHALL BE MANAGED SO THAT A DENSE, HEALTHY VEGETATIVE COVER IS PRESERVED. THE FOLLOWING MAINTENANCE ITEMS SHOULD BE PERFORMED DEPENDING ON FREQUENCY AND TIME OF YEAR:

TOP LAYER OF SEDIMENT, MULCH, AND POTENTIALLY VEGETATION; DE-COMPACT SOIL BY SCARIFICATION, AND REPLACE MULCH AND DISTURBED VEGETATION.

-LATE WINTER: TRIM BUNCH GRASSES; MOW TURF GRASSES; HARVEST OTHER TYPES OF VEGETATION ACCORDING TO RECOMMENDATIONS IN THE PLANTING SPECIFICATIONS. ADHERE TO SECTION 1.6.2.F.

-SPRING: REMOVE PREVIOUS MULCH LAYER AND APPLY NEW MULCH LAYER BY HAND (OPTION) ONCE EVERY TWO TO THREE YEARS.

SIGNAGE SHALL BE USED TO DELINEATE THE BOUNDARIES OF THE BIOFILTRATION AREA THAT ARE MAINTAINED WITH MINIMAL MOWING, NO FERTILIZERS, AND LIMITED USE OF ORGANIC HERBICIDES

IALL MEET THE FOLLOWING

ATORY TESTING CONDUCTED AT RCENT ORGANIC MATTER AND Y CONTAMINATED SOILS AND BE ST BE FREE OF STONES, TRASH, OT CONTAIN WEEDS OR WEED SEEDS. A SATURATED HYDRAULIC CONDUCTIVITY OF K≥2.0 IN/HR CAN BE PRESUMED IF THE ORGANIC MATTER AND TEXTURE ANALYSIS CRITERIA ARE MET. THE HYDRAULIC CONDUCTIVITY NEEDS TO BE HIGH ENOUGH TO PROVIDE ADEQUATE DRAINAGE, SUPPORT HEALTHY PLANT GROWTH, AND PREVENT NUISANCE CONDITIONS. THE CRITERIA IS INTENDED TO MEET THE NRCS DEFINITION OF SOILS WITH "MODERATE" TO "HIGH" AVAILABLE WATER CAPACITY. THE CRITERIA SHOULD ENSURE THAT THE MEDIUM HAS SUFFICIENT WATER HOLDING CAPACITY TO SUPPORT VIGOROUS PLANT GROWTH, ENHANCING THE ABILITY FOR PLANTS TO SURVIVE DURING DRY PERIODS. IT SHOULD ALSO SUSTAIN A HEALTHY MICROORGANISM POPULATION WHICH, IN CONCERT WITH THE PLANTS, SHOULD ENHANCE BIOLOGICAL REMOVAL OF POLLUTANTS IN STORMWATER.

THE PERCENT ORGANIC MATTER CRITERION IS NEEDED TO ENSURE HEALTHY VEGETATION. MOST NATIVE SOILS IN THE AUSTIN AREA HAVE LESS THAN 4% ORGANIC MATTER, AND NATIVE PLANTS IN THE AREA HAVE ADAPTED TO SURVIVING IN THESE TYPES OF SOILS. A HIGHER ORGANIC MATTER CONTENT IS NOT DESIRABLE AS NUTRIENTS MAY BE EXPORTED FROM THE MEDIUM, WHICH IS COUNTER TO THE REMOVAL THAT IS INTENDED IN THIS TYPE OF DEVICE. IMMATURE COMPOST, MANURE, COMPOST DERIVED FROM ANIMAL OR HUMAN SOURCES, AND UNSTABLE FORMS OF ORGANIC MATTER THAT MAY EXPORT NUTRIENTS SHOULD NOT BE INCLUDED IN THE BIOFILTRATION MEDIUM. RECOMMENDED SOURCES OF ORGANIC MATTER INCLUDE THAT FOUND NATURALLY IN

Quick Guide			P. 1.1	e Full Lloor Mercel			
 Enable Macros in th Click "Restore Defau Fill all yellow cells w Click "View Full Rest Project Passes if Gre 	e worksheet. Its" button to ith project spe Ilts" button. en "COMPLIAN	the right. ecifics, moving from top IT" button appears.	to bottom. Ques	 Full User Manual at exas.gov/department water-management tions? Email austintexas.gov 	Clin Restor For a l	ck Here To Te Defaults New Analysis	Click Here To /iew Results
KEY	Required	• Key User Input	Internal Calcula	ution	Error	Calculator Output	Does Not Apply
	<u>User Inpu</u>						
		Step 1	: Input site char	acteristics in yello	w highlighted	l cells	
Jubilee			Calvin Weim	ian		06/02/2023	SLAT 2.0 -
Is your site within the Bar	ton Springs Zo	ne (BSZ)?	Yes				
How many drainage areas	s, n _{max} , does y	our site have?	1	× •			
			Drainage Area	ıA			
Drainage area to the cont	rol, A _n (acres)		3.35				
Base impervious cover of	the drainage a	area, IC _B (%)	4.0				
Developed Impervious co	ver of the drain	nage area, IC _D (%)	40.7				
		Step 2:	: Input SCM cha	racteristics in yello	ow highlighted	d cells	
			Drainage Area	I A			
SCM 1 (First in Series	5)		SCM A1				
SCM Type			Biofiltratio	n a)			
What is the Water Qu	ality Volume,	WQV (inches) [aka	0.94				
Capture Depth] Minimum water quali	ty volume allo	wed (in)	0.77				
SCM 1 Actual Volume	(ft ³)		11431	•			
Drawdown Time, DC	own time or t	ime to empty full SCM	Drawdown T				
Flow Rate (gpm) [us	e only for "alt	emative" controls]	00				
Treatment Rate, Ω (in/h	r)		0.016				
Do you already know th	e runoff captu	ure efficiency?	No				
User Entered Runoff C	Capture Efficie	ncy, RCE (%)					
Runoff Capture Efficien	cy, RCE (%)		93.5%				
How is effluent from SC	M 1 discharge	d?	Pumped				
Delay after end of rainf	all before disc	harging SCM 1 (hrs)	12				
SCM 2 (Second in Ser	ies)	-	SCM A2				
SCM Type			Infiltration F	ield			
Do you know the infiltra	ted or reused	water quantity?	No; infiltrate all water	routed			
User-entered infilt. wa	ater quality vo	lume, WQV _{inf} (in)					
-OR- Percent of yearly	runoff infiltra	ted, RCE _{inf} (%)					
Soil infiltration rate (in	n/hr) ne / irrigation	time for any zone	0.19				
Approximate Minimur	n Field Area (A		0.55				
		S	itep 3: Input Eff	uent Data for Alte	ernative SCMs		
	D-11 -						
	COD	mg/L					
	E. coli	CFU/100mL					
	Pb	mg/L					
	TN	mg/L					
		mg/L					
	Zn	mg/L					
	Pollutant	Units					
	COD	mg/L					
	Pb	mg/L					
	TN	mg/L					
	ТР	mg/L					

ERROR CHECK PASSED

COMPLIANT

Click Here To

View Results

ERROR CHECK PASSED

COMPLIANT

Results subject to review and approval by COA Development Services Department.

Results subject to review and approval

by COA Development Services Department.

ERROR CHECK PASSED

COMPLIANT

Click Here To View Results Results subject to review and approval by COA Development Services Department.

SLAT	STORN	IWATE	R LOAD	ANALYS	SIS TOO	L 2.0		1/2
Site Name: Jubilee			By:	Calvin Weima	an	Date:	06/02/2023	
RESULTS: COMPLIA	NCE TABLE					SLAT 2.0	- 3/2018	
	DI	EVELOPED	LOAD, WIT		OLS	EXISTING	LOAD EQUIV.	COMPLIES
POLLUTANT	Drainage Area A	Drainage Area B	Drainage Area C	Drainage Area D	TOTAL LOAD,	LOAD	FACTOR,	?
COD lbs/yr	2.96E+01	0.00E+00	0.00E+00	0.00E+00	2.96E+01	6.17E+01	0.48	YES
E. coli 10^6 MP	N/y 4.12E+04	0.00E+00	0.00E+00	0.00E+00	4.12E+04	1.68E+05	0.25	YES
Pb Ibs/yr	6.03E-03	0.00E+00	0.00E+00	0.00E+00	6.03E-03	7.00E-03	0.86	YES
TN Ibs/yr	1.08E+00	0.00E+00	0.00E+00	0.00E+00	1.08E+00	3.29E+00	0.33	YES
TP Ibs/yr	1.86E-01	0.00E+00	0.00E+00	0.00E+00	1.86E-01	5.88E-01	0.32	YES
TSS Ibs/yr	4.41E+01	0.00E+00	0.00E+00	0.00E+00	4.41E+01	2.46E+02	0.18	YES
Zn lbs/yr	3.49E-02	0.00E+00	0.00E+00	0.00E+00	3.49E-02	3.82E-02	0.91	YES
Results subject to review an approval by COA Develo ment Services Departme	error chi d p- comf	ECK PASSED			C I	hange nputs	Print Jump Remov	Results to Loads red Table

SUIVIIVIARY OF INPUTS

Site Location	Within Bartor	n Springs Zon	e - Compare t	o Existing Loa	ads
	Drainage Area A	Drainage Area B	Drainage Area C	Drainage Area D	TOTALS
Drainage Area, An (Ac)	3.35	N/A	N/A	N/A	3.35
Developed IC, IC _D (%)	46.7	N/A	N/A	N/A	47%
SCM 1	Biofiltration	N/A	N/A	N/A	-
Water Qual. Vol, WQV (in)	0.94	N/A	N/A	N/A	-
Actual Volume (ft3)	11431	N/A	N/A	N/A	11431
Drawdown Time, DDT (hrs)	60	N/A	N/A	N/A	-
Flowrate (gpm)	23.75	N/A	N/A	N/A	-
SCM 2	Infiltration Field	N/A	N/A	N/A	-
Infiltration Rate (in/hr)	0.19	N/A	N/A	N/A	-
Appx. Min. Infilt. Field Area (A	0.55	N/A	N/A	N/A	0.55
Average Irrigation Rate (gpm)	23.7	N/A	N/A	N/A	-
Error with Input Values?	NO	NO	NO	NO	

Results subject to review and approval by COA Development Services Department.

SP C	CITY APPROVAL STAMP					
SITE CIVIL PLAN	QUA	JOB: 22-0 CAD: DA/M ENGINEER: SCALE	ISIONS RIPTION APPROVED BY		PROCESSION OF THE PROCESSION O	AUSTIN CIVIL
1	WA ⁻ LIT CAL	050 [MM (: CW (I LE OFFICES AT VILLIAIVI CANNON	ALVINUS 1419 S/ONAI 06/2	ENGINEERING, INC.
6 of 26	TER Y PON _CS	DATE: 6/28 CHK'D BY: CHK'D BY:		3101 W WILLIAM CANNON DR	7	9501 B MENCHACA RD, SUITE. 220 AUSTIN, TX 78748
,)	ID	/23				81UU-0U5 (21C) :HH

MAINTENANCE NOTES:

BASINS. STRUCTURAL INTEGRITY OF BASINS SHALL BE MAINTAINED AT ALL TIMES. WOODY VEGETATION SHOULD BE CONTROLLED/REMOVED TO PREVENT BASIN LEAKAGE. THE ABILITY OF THE BASIN TO RETAIN THE WATER QUALITY VOLUME SHALL BE EVALUATED BY THE COA.

IRRIGATION AREAS. TO THE GREATEST EXTENT PRACTICABLE, IRRIGATION AREAS ARE TO REMAIN IN THEIR NATURAL STATE, HOWEVER, VEGETATION MUST BE MAINTAINED IN THE IRRIGATION AREA SUCH THAT IT DOES NOT IMPEDE THE SPRAY OF WATER FROM THE IRRIGATION HEADS. TREE AND SHRUB TRIMMINGS AND OTHER LARGE DEBRIS MUST BE REMOVED FROM THE IRRIGATION AREA. SEE REQUIREMENTS IN SECTION 1.6.7.A.3.(G) AND (H) REGARDING REQUIREMENTS FOR SOIL AND VEGETATION IN IRRIGATION AREAS.

PUMPS AND IRRIGATION SYSTEM. THE PUMPS AND IRRIGATION SYSTEM MUST BE INSPECTED OR TESTED A MINIMUM OF SIX (6) TIMES PER YEAR TO SHOW ALL COMPONENTS ARE OPERATING AS INTENDED. TWO (2) OF THESE SIX (6) INSPECTIONS SHOULD BE AFTER RAIN EVENTS TO ENSURE THAT THE IRRIGATION SYSTEM AND ALL OF ITS COMPONENTS PERFORM AS DESIGNED. THIS INCLUDES CONTROLS SUCH AS WEATHER STATIONS OR RAIN SENSORS, DELAYS, VALVES, ALARM SYSTEM, DISTRIBUTION LINES, OR OTHER COMPONENTS AS SPECIFIED IN THE SYSTEM DESIGN. SPRINKLER HEADS MUST BE CHECKED TO DETERMINE IF ANY ARE BROKEN, CLOGGED, OR NOT SPRAYING PROPERLY. ALL INSPECTION AND TESTING REPORTS MUST BE KEPT ON SITE AND ACCESSIBLE TO THE CITY OF AUSTIN.

THE OVERALL SYSTEM SHALL BE INSPECTED FOR THE ABILITY TO RETAIN THE WATER QUALITY VOLUME ON SITE PER ECM SECTION 1.6.7.A.

PUMP REQUIREMENTS:

- PUMP CONTROL PANEL TO INCLUDE MOTOR STARTER AND RELAYS, AUTOMATIC AND MANUAL OVERRIDE CAPABILITIES, LIGHTING AND SURGE PROTECTION, SAFETY ALARM, LOW LEVEL FLOAT SWITCH, WITH TIME DELAY START AND 0-100 HR OPERATION WITH INDICATION LIGHT PLUS ALL OTHER APPURTENANCES AND EQUIPMENT AS SPECIFIED.
 THE CONTROL STATION IS EQUIPPED WITH FLOAT BULBS TO START AND TURN OFF THE PUMP. A SENSOR START WILL ACTIVATE THE CONTROLLER TO BEGIN THE IRRIGATION CYCLE. A DELAY OF 12 HOURS
- WILL BE ACCOMPLISHED WITH THE USE OF A PUMP DELAY SWITCH. 3. THE CONTROLS LOCATED IN THE PUMP STATION ARE EQUIPPED WITH A MANUAL OVER-RIDE SWITCH WHICH ALLOWS THE PUMP TO BE CONTROLLED APART FROM THE BULBS.
- 4. THE PUMPING SYSTEM IN TO BE TESTED AFTER THE COMPLETION OF THE SYSTEM. THE POND SHOULD BE FILLED WITH WATER AND THE PUMP STATION WILL BE TESTED TO VERIFY ALL SYSTEM FUNCTION. THE ENGINEER AND OWNER'S REPRESENTATIVE NEED TO BE PRESENT AT THE TIME OF THIS TEST.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE OBTAIN ALL PERMITS, INSPECTIONS AND APPROVAL BY PROPER AUTHORITIES.
 THE ELECTRICAL SYSTEM MUST BE GROUNDED AT THE SERVICE ENTRANCE IN ACCORDANCE WITH THE N.E.C. AND/OR LOCAL CODES AND A SUITABLE GROUND CONDUCTOR CARRIED TO THE GROUND
- CONNECTION IN THE CONTROL PANEL. 7. PUMP CONTROL PANEL TO INCLUDE DRY CONTACT TO IRRIGATION CONTROLLER TO INDICATE PUMP RUN, 120VAC TO IRRIGATION ELECTRIC CONTROLS PRESSURE FAIL WITH ALARM AND INDICATOR LIGHT, HIGH PRESSURE FAIL WITH ALARM AND INDICATOR LIGHT, UNITED ELECTRIC CONTROLS PRESSURE SWITCH, PRESSURE RESET BUTTON, TRIPPED ON GROUND FAULT INDICATOR LIGHT, PUMP RUN LIGHT, T-O-A, OVERLOAD RESET BUTTON, EARLY START INDICATOR LIGHT AND RELAY, PRESSURE FAIL BYPASS TIMER (0-3 MINUTES), LOW LEVEL ALARM INDICATOR LIGHT, NEMA 3R ENCLOSURE, ALL
- LIGHT, 1-0-A, OVERLUAD RESET BUTTON, EARLY START INDICATOR LIGHT AND RELAY, PRESSURE FAIL BYPASS TIMER (0-3 MINUTES), LOW LEVEL ALARM INDICATOR CONTROLS AND INDICATOR LIGHTS TO BE MOUNTED ON INNER DOOR, RED FLASHING ALARM LIGHT TO BE MOUNTED OH THE TOP OF THE ENCLOSURE.
 IRRIGATION CONTROLLER SHOULD BE PROGRAMMED AS TO LIMIT THE MOTOR STARTS TO ONE (1) START PER HOUR.
- 9. CONTRACTOR TO PROVIDE 20 AMP CIRCUIT BREAKER IN THE ELECTRICAL ROOM OF THE BUILDING AND RUN POWER TO THE CONTROL PANEL AND IRRIGATION CONTROLLER.

ADDITIONAL NOTES:

- 1. PLUG VALVES MUST BE LOCATED OUTSIDE THE WET WELL ON THE DISCHARGE SIDE OF EACH PUMP TO ISOLATE THE PUMPS FOR
- MAINTENANCE AND FOR THROTTLING IF NECESSARY (BUTTERFLY VALVES AND GATE VALVES ARE PROHIBITED).
 A HIGH. LOW- PRESSURE PUMP SHUT OFF SYSTEM (IN CASE O LINE CLOGGING OR BREAKING) SHALL BE INSTALLED IN THE PUMP DISCHARGE PIPING.
- 3. ALARM SYSTEM SHOWN SHALL CONSIST OF A RED LIGHT LOCATED AT THE WET WELL, AT LEAST FIVE FEET ABOVE GROUND LEVEL, SHALL BE VANDAL PROOF AND WEATHER RESISTANT, IT SHOULD BE ACTIVATED WHEN: THE HIGH WATER LEVEL HAS BEEN MAINTAINED FOR AN EXCESS OF 72 HOURS, THE WATER LEVEL IS BELOW THE SHUTOFF FLOAT AND THE PUMP HAS NOT TURNED OFF, AND THE HIGH/LOW-PRESSURE PUMP SHUT OFF SWITCH HAS BEEN ACTIVATED.
- PROVIDE AN APPROPRIATE SHUT OFF VALVE BETWEEN THE POND AND THE WET WELL FOR SERVICING OF THE PUMP UNDER POND FULL CONDITIONS.
 A SIGN IS REQUIRED TO BE POSTED AT THE WET WELL WHICH CLEARLY DISPLAYS THE NAME AND CONTACT INFORMATION FOR A RESPONSIBLE PARTY THAT MAY BE CONTACTED IF THE ALARM IS ACTIVATED.
- IRRIGATION PIPING:
- ALL PIPING MUST BE AT LEAST SCHEDULE 40 PVC.
 PIPING OR ELECTRICAL BUNDLES PASSING UNDER IMPERVIOUS COVER MUST BE SLEEVED WITH PVC CLASS 200 PIPE WITH SOLVENT WELDED JOINTS AND A DIAMETER TWICE THAT OF THE PIPING OR BUNDLE.
- A PLUG VALVE SHOULD BE PROVIDED AT THE END OF EVERY LINE TO ALLOW FLUSHING.
 ALL DIDNIC ALLOT DE DUDIED TO DEDETET LE EDOMA WEATLIED AND VANDAU JOAN
- ALL PIPING MUST BE BURIED TO PROTECT IF FROM WEATHER AND VANDALISM.
 PIPING SHOULD BE BURIED AT A SUFFICIENT DEPTH TO PREVENT DAMAGE FROM VEHICULAR TRAFFIC (I.E. MAINTENANCE EQUIPMENT).
- ALL PIPES MUST BE MARKED TO INDICATE THEY CONTAIN NON-POTABLE WATER.
- 7. VALVES:
 ALL VALVES MUST BE DESIGNED SPECIFICALLY FOR SEDIMENT BEARING WATER, AND BE OF APPROPRIATE DESIGN FOR THE INTENDED PURPOSE.
- ALL REMOTE CONTROL, GATE, AND QUICK COUPLING VALVES MUST BE LOCATED IN TEN-INCH OR LARGER PLASTIC VALVE BOXES.
- ALL VALVES MUST BE MARKED TO INDICATE THEY CONTAIN NON-POTABLE WATER.
 A MINIMUM OF 12 INCHES OF SOIL, WITH THE IDENTIFIED PERMEABILITY RATES, MUST BE PRESENT IN THE IRRIGATION AREA, SOIL ENHANCEMENT IS ALLOWED TO ACHIEVE THIS REQUIREMENT.
- 9. THE IRRIGATION AREA MUST BE HAVE NATIVE VEGETATION OR BE RESTORED OR RE-ESTABLISHED WITH NATIVE VEGETATION, UNLESS APPROVED BY THE DIRECTOR.
- CITY STAFF MUST BE GIVEN AT LEAST 72 HOURS NOTICE OF WHEN BORINGS OR TRENCHES ARE TO BE BACKFILLED.
 A FIFTY (50) FOOT, NON-IRRIGATED, VEGETATED BUFFER MUST BE PROVIDED DOWNSTREAM OF THE IRRIGATION AREAS TO PROVIDE TREATMENT FOR ANY RUNOFF THAT MAY BE GENERATED DURING HEAVY STORM EVENTS OR FROM EXCESSIVE IRRIGATION. THIS DUFFED IS NOT NECESSARY IF DUNNOFF THAT MAY BE GENERATED DURING HEAVY STORM EVENTS OR FROM EXCESSIVE IRRIGATION. THIS
- BUFFER IS NOT NECESSARY IF RUNOFF FROM THE IRRIGATION AREAS WILL RETURN TO THE RETENTION BASIN.
 12. THIS IS A DUAL PUMP SYSTEM. EACH PUMP SHOULD BE CAPABLE OF DELIVERING 100% OF THE REQUIRED DESIGN CAPACITY. THE PUMPS SHOULD ALTERNATE ON START-UP. A MANUAL CONTROL MUST BE PROVIDED SO BOTH PUMPS CAN BE TURNED OFF, IF NECESSARY.

NOTES:

- ALL MJ FITTINGS TO HAVE RESTRAINTS.
 PIPE BELL JOINT RESTRAINTS TO BE INSTALLED FOR THE REQUIRED LENGTH AT EACH FITTING AND VALVE.
- ALL IRRIGATION SYSTEM DISTRIBUTION AND LATERAL PIPING (I.E. FROM THE PUMPS TO THE SPRAY HEADS) MUST BE SCHEDULE 40
 PURPLE PVC. ALL PIPES AND ELECTRICAL BUNDLES PASSING BENEATH DRIVEWAYS OR PAVED AREAS MUST BE SLEEVED WITH PVC
 CLASS 200 PIPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMETER MUST EQUAL TWICE THAT OF THE PIPE OR ELECTRICAL BUNDLE.
 BURIED PIPING MUST BE MARKED WITH DETECTABLE MARKING TAPE LABELED "CAUTION: BURIED NON-POTABLE WATER LINE BELOW".
 ALL SPRINKLER HEADS TO HAVE PURPLE CAPS.
- PROVIDE VALVE BOXES WITH PURPLE CAPS.
- ALL PIPES AND VALVES MUST BE MARKED TO INDICATE THAT THEY CONTAIN NON-POTABLE WATER.

WET WELL ALARM REQUIREMENTS:

THE ALARM SHOULD ACTIVATE WHEN: (1) THE HIGH-WATER LEVEL HAS BEEN MAINTAINED IN EXCESS OF 72 HOURS, (2) THE WATER LEVEL IS BELOW THE SHUTOFF POINT AND THE PUMP HAS NOT TURNED OFF, OR (3) THE HIGH/LOW-PRESSURE PUMP SHUT OFF SWITCH HAS BEEN ACTIVATED. THE ALARM SHOULD BE VANDAL AND WEATHER RESISTANT. A SIGN SHOULD BE PLACED AT THE WET WELL CLEARLY DISPLAYING THE NAME AND PHONE NUMBER OF A RESPONSIBLE PARTY THAT MAY BE CONTACTED IF THE ALARM IS ACTIVATED.

THE IRRIGATION FIELD MUST NOT RECEIVE ANY FERTILIZERS, PESTICIDES, OR HERBICIDES. (ECM 1.6.7.5.A.4.G).

NOTE: A GEOTECHNICAL ENGINEER MUST BE INVOLVED IN ALL ASPECTS OF THE LINER DESIGN. ALL LINER STUDIES, PLANS, DETAILS, SPECIFICATIONS AND OTHER RELATED DOCUMENTS MUST BE SEALED BY A GEOTECHNICAL ENGINEER.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL

UNDERGROUND UTILITIES.

TREE LIST SEE SHEET 5

CITY APPROVAL STAMP

SP-

JOB: 22–050 DATE: 7/14/23 CAD: DA/MM CHK'D BY:

RETENTION

IRRIGATION

SYSTEM

of

NGINEER: CW CHK'D BY:

SCALE:

 $\overline{\mathbf{C}}$

 $\overline{\mathcal{O}}$



								1	PRC),
March 2022, new water meters itomated metering infrastructure	F						NI		FIRE, D	C
bordinate with the Austin Water	-			SAI WI			N		GRID NUMBER:	
lation.	CALCULATIO	ON OF AVA		FIRE FLOV	V FROM A	FIRE HYDR	ANT		MAPSCO NUMBER:	
	BASED ON	THE FORM	IULA:						AW INTERSECTION N	IUI
Pipe, the Contractor's work plans Austin Water's Asbestos Program	Q	∖r/Qf = (F	of1-Pf2)^	.54 / (Pr1-Pr	2)^.54				BUILDING SIZE IN SQ	UA
2-0915. It is the Contractor's			,		,				BUILDING TYPE PER I	FC
e and Local regulations.	Re	Residual Hydrant		GRID #	E17	F.H. #	190250		BUILDING HEIGHT:	
	S	tatic	85	psi					AVAILABLE FIRE FLO	w
	R	esidual	73	psi					REQUIRED BUILDING	FI
ped sheets are not permitted. All ed via the ABC portal for a Plan	F	low Hydran	t	GRID #	M29	F.H. #	189642		REDUCED FIRE FLOW PER IFC TABLE B105.2	PE 2:
the Texas Board of Professional	s	tatic	102	psi					MINIMUM FIRE FLOW	N (
Rules, Subchapter C: Professional	F	low	80	psi	Rate	1500	gpm		DOMESTIC WATER D	ΕN
	с	alculated	Fire Flo	w Rate @ 2	20 psi	3735	gpm		WATER SUPPLY FIXT	UR CL
					Velocity	11.34792	fps		AUSTIN WATER PRES	SL

SERVICE EXTENSION REQUESTS

WATER SER NO. ----

WASTEWATER SERVICE NO. ----

AW INFRASTRUCTURE INFORMATION

ISTALLED)	LENGTH OF PIPE (L.F.)	SIZE OF PIPE (INCH)	NO. OF SERVICES
	25 lf	8"	1
C)	25 lf	2"	1
)	20 lf	1.25"	1
E			

		Meter Notice:		
FIRE, DOMESTIC AND IRRIGATI	ON DEMAND DATA	Meter 1.5 inches and larger must be purchased		
GRID NUMBER:	E 17	and ordered 90 days in advance of installation.		
MAPSCO NUMBER:	643 K , 643 P		HFO	50
AW INTERSECTION NUMBER:	23924	Meter(s) Requirement for Project:	S A N	
BUILDING SIZE IN SQUARE FEET:	18,381	Address: 3101 W WILLIAM CANNON DR AUSTIN,		
BUILDING TYPE PER IFC:	IIB AND IIIB	TEXAS 78745		F-00 F-00 K 787
BUILDING HEIGHT:	28	Proposed Use: DOMESTIC METER		
AVAILABLE FIRE FLOW CALCS AT 20 PSI:	3735 GPM		U H D	
REQUIRED BUILDING FIRE FLOW PER IFC TABLE B105.1(2):	2750 GPM	Type: POSITIVE DISPLACEMENT	$O \overline{O} O$	
REDUCED FIRE FLOW PER 75% FIRE SPRINKLER REDUCTION PER IFC TABLE B105.2:	687.60 GPM	Size: 2" GPM Range: 28.2		
MINIMUM FIRE FLOW (SEE NOTE #2 BELOW):	1000 GPM	Service Units: 1		√ ()
DOMESTIC WATER DEMAND IN GPM:	28.2 GPM			
WATER SUPPLY FIXTURE UNITS (WSFU) FLUSH TANKS OR FLUSHOMETERS (CIRCLE APPLICABLE ITEM):	60	Meter(s) Requirement for Project:	O I	
AUSTIN WATER PRESSURE ZONE:	SOUTHWEST A PRESSURE ZONE (750'-900')	Address: 3101 W WILLIAM CANNON DR AUSTIN, TEXAS 78745		
STATIC WATER PRESSURE IN PSI:	116.88 PSI	Proposed Use: IRRIGATION METER		
STATIC PRESSURE AT THE HIGHEST LOT SERVED IN PSI:	108.23	Type: POSITIVE DISPLACEMENT		
STATIC PRESSURE AT THE LOWEST LOT SERVED IN PSI:	127.71	Size: N/A GPM Range: N/A		
MAXIMUM IRRIGATION DEMAND:	24 GPM	Service Units: N/A		
FIRE LINE VELOCITY: 6"SIZE OF FIRE LINE	11.35 FT/S			
DOMESTIC LINE VELOCITY: 2" SIZE OF DOMESTIC LINE	2.70 FPS			
LIVING UNIT EQUIVALENTS (LUEs)	13	Reclaimed Meter(s) Requirement for Project:		OF TE
NOTE: LOTS WITH 65 PSI OR GREATER REQUIRE A PRV TO BE INSTAI DOMESTIC WATER METER.	LLED ON THE PROPERTY OWNERS SIDE OF THE	Address: Proposed Use:		CALVINJ. WEIMAN
1. WITH THE EXCEPTION OF PROVIDING THE REQUIRED INFORMATI	ION, DO NOT REVISE THESE TABLES IN ANYWAY.	Turner		P. 141995
B105.2 (REQUIRED OR REDUCED FIRE FLOWS). MIN FIRE FLOW VALU 13 SYSTEMS OR 1500 GPM FOR NFPA 13R SYSTEMS (FOOTNOTES a	UE SHALL BE NO LESS THAN 1000 GPM FOR NFPA and b FOR TABLE B105.2).	Size: GPM Range:	Z	SS/ONAL ENG
3. IF DEMAND, OTHER THAN MINIMUM FIRE FLOW, IS UTILIZED IN I	FIRE LINE VELOCITY DETERMINATION,			07/14/23

Please contact Development Services Department, Site and Subdivision Inspection at sitesubintake@austintexas.gov for arrangements for payment of Inspection fees and job assignment for Inspection of the public utilities to this site. Inspection fees must be paid before any Pre-construction meeting can be held.

STANDARD CONSTRUCTION NOTES

THIS WORK. NOTIFICATION REQUIREMENTS AT WWW.AUSTINTEXAS.GOV. MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.

INSPECTORS. 7. ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04. 8. PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMALLY PRESSURE TAPS 4 INCHES AND LARGER SHALL BE ALLOWED IN THE FOLLOWING CASES: A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUT OUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT.

PRESSURES SHOWN ON THE APPROVED PLANS. PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.

REPLACEMENT. 12. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE. 13. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS. 14. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES, BELOW GROUND AND OVERHEAD, PRIOR

TO STARTING ONSITE UTILITY WORK.

PLANS, PER UTILITY CRITERIA MANUAL AND TCEQ CHAPTERS 210, 217, AND 290. CONSTRUCTION CONSIDERATIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

DIAMETER MANHOLE SECTIONS. PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE CITY OF AUSTIN INSPECTOR.

REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET. A SEPARATE AUSTIN WATER TAPS OFFICE FORM WILL BE USED TO PROVIDE RELEVANT DATA FOR THE EXISTING INFORMATION ON EXISTING METERS TO RECEIVE APPROPRIATE CREDITS. THIS FORM SHALL BE DIRECTLY SUBMITTED TO AUSTIN WATER TAPS OFFICE FOR REVIEW AND PROCESSING. 21. NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND AUSTIN WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED. 22. METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.



October 1, 2021

1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO

2. CONTRACTOR MUST OBTAIN A ROW PERMIT FROM AUSTIN TRANSPORTATION DEPT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY. ACTIVITY WITHIN RIGHT-OF-WAY SHALL COMPLY WITH APPROVED TCP. 3. AT LEAST 48 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION ACTIVITY IN PUBLIC ROW OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY THE APPLICABLE CITY OF AUSTIN INSPECTION GROUP (AUSTIN TRANSPORTATION, DEVELOPMENT SERVICES, OR PUBLIC WORKS). SEE CURRENT 4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY

EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED. TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER

5. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES. 6. MINIMUM TRENCH SAFETY MEASURES SHALL BE PROVIDED, AS REQUIRED BY OSHA, CITY SPECIFICATION 509S, AND CITY/COUNTY CONSTRUCTION

9. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE

10. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF

11. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS POLYETHYLENE (PE), THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD, AT BRASS FITTINGS, OR THE FULL LENGTH SHALL BE REPLACED PER CURRENT STANDARD DETAIL(S). WHEN POLYBUTYLENE (PB) TUBING IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE FULL LENGTH OF SERVICE LINE SHALL BE REPLACED. (NOTE: FULL LENGTH IS FROM THE CORPORATION STOP TO THE METER.) REPAIR COUPLINGS ARE NOT ALLOWED FOR ANY WATER OR WASTEWATER SERVICE LINE REPAIR, RECONNECT, OR

15. ALL WATER, WASTEWATER, AND RECLAIMED MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED ON THE

16. PROJECT-SPECIFIC SHOP DRAWINGS SHALL BE SUBMITTED FOR AW APPROVAL FOR PRE-CAST CIRCULAR VERTICAL MANHOLE SECTIONS LARGER THAN 48" DIAMETER. THE SHOP DRAWINGS SHALL INCLUDE THE FLOWLINE ELEVATION OF ALL CONNECTING PIPES; ELEVATIONS OF TRANSITIONS FROM LARGE DIAMETER SECTIONS TO 48" DIAMETER SECTIONS; TOP OF MANHOLE AND SURROUNDING GROUND ELEVATIONS; AND DETAILS OF SPECIAL

17. WHEN CONCRETE MANHOLES LARGER THAN 48 INCH DIAMETER ARE USED, DRAWINGS THAT ARE SEALED BY A PROFESSIONAL ENGINEER SHALL BE SUBMITTED FOR BASE SLABS, FLAT TOP LIDS (IF USED), AND FLAT TYPE CONCRETE PIECES USED TO TRANSITION FROM LARGER TO SMALLER 18. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO AUSTIN WATER. NOTICE

SHOULD BE GIVEN 48 HOURS PRIOR, TO PIPELINE OPERATIONS DISTRIBUTION SYSTEM -VALVES AND HYDRANT SERVICES SUPERVISOR AT 512-972-1280. 19. ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT SHALL BE REMOVED FROM THE METER BOX 20. THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR

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. STAMP	AUSTII GEN INFORM CONST	N WATER NERAL MATION & IRUCTION DTES
C	SITE CIVIL PLAN	24

CITY APPROVAL



SECTION A

	ENCLARENCE SOLUTION CIVIL BRE FIRM # F-001018 9501 B MENCHACA RD, SUITE. 220 9501 B MENCHACA RD, SUITE. 250 9501 B MENCHACA
	THE OFFICES AT WILLIAM CANNON 3101 W WILLIAM CANNON DR AUSTIN, TEXAS 78745
CITY APPROVAL STAMP	Image:
SPC	SITE CIVIL PLAN SITE CIVIL PLAN of 26

	Texas Commission on Environ Water Pollution Abateme General Construction I
	Edwards Aquifer Protection Program Construction
The follo by the Ex Further a 213 and following curtail ac Edwards other app Failure to regulatio Enforcen represen	wing/listed "construction notes" are intended to be advisory in nature only a secutive Director (ED), nor do they constitute a comprehensive listing of rul actions may be required to achieve compliance with TCEQ regulations four 217, as well as local ordinances and regulations providing for the protectio /listed "construction notes" restricts the powers of the ED, the commission tivities that result or may result in pollution of the Edwards Aquifer or hydro Aquifer Protection Plan containing "construction notes" is still responsible plicable TCEQ regulation, as well as all conditions of an Edwards Aquifer F to comply with any condition of the ED's approval, whether or not in contrad ns and any violation is subject to administrative rules, orders, and penalties nent). Such violations may also be subject to civil penalties and injunction. t an approved exception by the ED to any part of Title 30 TAC, Chapters 2
1.	A written notice of construction must be submitted hours prior to the start of any regulated activities. Th - the name of the approved project; - the activity start date; and - the contact information of the prime contract
2.	All contractors conducting regulated activities associate with complete copies of the approved Water Pollution letter indicating the specific conditions of its approva activities, the contractors are required to keep or approval letter.
3.	If any sensitive feature(s) (caves, solution cavity construction, all regulated activities near the s immediately. The appropriate TCEQ regional offic sensitive features encountered during construction resumed until the TCEQ has reviewed and approve order to protect any sensitive feature and the Ec- impacts to water quality.
4.	No temporary or permanent hazardous substance s feet of a water supply source, distribution system, we
5.	Prior to beginning any construction activity, all tem control measures must be properly installed and ma plans and manufacturers specifications. If inspec inappropriately, or incorrectly, the applicant must situations. These controls must remain in place permanently stabilized.
6.	Any sediment that escapes the construction site mubefore the next rain event to ensure it is not washed etc.
-	

TCEQ-0592 (Rev. July 15, 2015)

nmental Quality nent Plan n Notes

on Notes – Legal Disclaimer

y and do not constitute an approval or conditional approval rules or conditions to be followed during construction. und in Title 30, Texas Administrative Code (TAC), Chapters tion of water quality. Additionally, nothing contained in the on or any other governmental entity to prevent, correct, or drologically connected surface waters. The holder of any le for compliance with Title 30, TAC, Chapters 213 or any r Protection Plan through all phases of plan implementation. adiction of any "construction notes," is a violation of TCEQ ties as provided under Title 30, TAC § 213.10 (relating to n. The following/listed "construction notes" in no way s 213 and 217, or any other TCEQ applicable regulation

d to the TCEQ regional office at least 48 his notice must include:

ctor.

ociated with this project must be provided on Abatement Plan (WPAP) and the TCEQ val. During the course of these regulated on-site copies of the approved plan and

ty, sink hole, etc.) is discovered during sensitive feature must be suspended fice must be immediately notified of any tion. Construction activities may not be red the appropriate protective measures in Edwards Aquifer from potentially adverse

storage tank shall be installed within 150 vell, or sensitive feature.

mporary erosion and sedimentation (E&S) aintained in accordance with the approved ections indicate a control has been used at replace or modify the control for site are until the disturbed areas have been

nust be collected and properly disposed of ed into surface streams, sensitive features,

7. Sediment must be removed from the sediment traps or sedimentation basins not later than

Page 1 of 2

when it occupies 50% of the basin's design capacity.

- 8. Litter, construction debris, and construction chemicals exposed to stormwater sh prevented from being discharged offsite.
- 9. All spoils (excavated material) generated from the project site must be stored on-sit proper E&S controls. For storage or disposal of spoils at another site on the Edwards A Recharge Zone, the owner of the site must receive approval of a water pollution abat plan for the placement of fill material or mass grading prior to the placement of spoils other site.
- 10. If portions of the site will have a temporary or permanent cease in construction activity I longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures not required. If drought conditions or inclement weather prevent action by the 14 stabilization measures shall be initiated as soon as possible.
- The following records shall be maintained and made available to the TCEQ upon reques

 the dates when major grading activities occur;
 the dates when construction activities temporarily or permanently cease on a poor of the site; and
 - the dates when stabilization measures are initiated.
- 12. The holder of any approved Edward Aquifer protection plan must notify the approved regional office in writing and obtain approval from the executive director prior to initiatin of the following:
 - A. any physical or operational modification of any water pollution abatement struct including but not limited to ponds, dams, berms, sewage treatment plants diversionary structures;
 - B. any change in the nature or character of the regulated activity from that which originally approved or a change which would significantly impact the ability of the to prevent pollution of the Edwards Aquifer;
 - C. any development of land previously identified as undeveloped in the original pollution abatement plan.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339 2929	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490 3096
Phone (512) 339-2929	Phone (210) 490-3096
Fax (512) 339-3795	Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

TCEQ-0592 (Rev. July 15, 2015)

		ENGINEERING, INC. TBPE FIRM # F-001018 9501 B MENCHACA RD, SUITE. 220 AUSTIN, TX 78748 PH: (512) 306-0018
shall be n-site with ds Aquifer abatement oils at the vity lasting sible prior measures a d the		CALVINUS. WEIMAN CALVINUS. WEIMAN 141995 SSIONAL CALVINUS. WEIMAN 06/28/23
14 th day, uest: a portion ppropriate iating any ructure(s), ants, and vhich was of the plan inal water RUCTION		THE OFFICES AT WILLIAM CANNON 3101 W WILLIAM CANNON DR AUSTIN, TEXAS 78745
Page 2 of 2	CITY APPROVAL STAMP	AB I
	SPC	NUTES NUTES 26 of 26







BMP Treat	tment Requi	rements					
Duriant Aven			Drainage Basin Total			BMP Treatment Provided	
Project Area		Total Capture Volume (cf)					
Total (ac)	Impv Area (ac)	Required TSS Removal (lbs)	Total (ac)	Impv Area (ac)	Total Allowed Impervious cover	Required	Provided
POND A							
3.89	1.42	1,756	3.35	1.57	2.16	3,163	19,619

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: The Offices at William Cannon Date Prepared: August 28, 2023

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30 Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where: $L_{M TOTAL PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load A_N = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Travis Total project area included in plan 3.89 acres Predevelopment impervious area within the limits of the plan * = 0.14 acres Total post-development impervious area within the limits of the plan* = 1.42 acres Total post-development impervious cover fraction * = 0.365 32 P = inches 1114 lbs. L_{M TOTAL PROJECT} = Number of drainage basins / outfalls areas leaving the plan area = 1 9/19/2023 2. Drainage Basin Parameters (This information should be provided for each basin): Drainage Basin/Outfall Area No. = 1 Total drainage basin/outfall area = 3.35 acres Predevelopment impervious area within drainage basin/outfall area = 0.14 acres

Post-development impervious area within drainage basin/outfall area =	1.42	acres
Post-development impervious fraction within drainage basin/outfall area =	0.42	
L _{M THIS BASIN} =	1114	lbs.

3. Indicate the proposed BMP Code for this basin.

В	ioretentio	n
Proposed BMP = Re	etention / I	rrigation
Removal efficiency =	100	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (BMP \text{ efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

whore	
where.	

 A_{C} = Total On-Site drainage area in the BMP catchment area

A_I = Impervious area proposed in the BMP catchment area

 A_P = Pervious area remaining in the BMP catchment area

L_R = TSS Load removed from this catchment area by the proposed BMP

A _C =	3.35	acres
A _I =	1.57	acres
A _P =	1.7800	acres
L _R =	1769	lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area



6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth =	0.64	inches
Post Development Runoff Coefficient =	0.34	
On-site Water Quality Volume =	2636	cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	527	
Total Capture Volume (required water quality volume(s) x 1.20) =	3163	cubic feet



Attachment G

Inspection, Maintenance, Repair & Retrofit Plan

Partial Sedimentation/Biofiltration Pond & Irrigation System

The Offices at William Cannon

3101 W William Cannon Dr, Austin, Texas 78745

Responsible Party: Jubilee Christian Center 2909 W William Cannon Dr, Austin, TX 78745



1.0 System Description

Nonpoint source pollution control at 3101 W William Cannon Dr, Austin, TX is provided by a partial sedimentation/biofiltration pond & irrigation system. The lots are located within the Barton Springs Zone (BSZ); therefore, the design will require two SCMs in series, in this case a Partial Sedimentation/Biofiltration Pond and Irrigation System.

The biofiltration system (First control in series (SCM 1)) is an enhanced filtration device that typically utilizes more than one treatment mechanisms for removing pollutants from stormwater runoff. A sedimentation basin is required as a first step in the SCM, to provide pre-treatment of runoff in order to protect the biofiltration medium from becoming clogged prematurely by sediment loads. Then, flows are directed through a biofiltration medium which removes pollutants. A defining characteristic of the biofiltration SCM is a community of plants and microorganisms that is rooted in the filter medium and that can provide more treatment of runoff, directly and by uptake from the filter medium. As well as enhancing removal of pollutants, the plant community tends to sustain the permeability of the biofiltration medium for longer periods of time without maintenance. It is the existence of this biological community that differentiates a biofiltration SCM from a typical sand filter, which is otherwise comparable in design and performance.

The irrigation water quality treatment system (Second control in series (SCM 2)) consists of two (2) primary components: (1) a basin which captures and isolates the required volume of stormwater runoff; and (2) a distribution and land application system which generally utilizes pumps, piping and spray irrigation components. The main characteristic of retention/irrigation systems is the ability to retain the entire water quality volume on site. The design should consider factors such as basin impermeability and the irrigation area's ability to infiltrate the water quality volume.

This method of storm water capture and control typically has removal rates of nonpoint source pollutants of 100%.

2.0 Major Maintenance and Construction Requirements (ECM 1.6.3)

a. *Inspections* — BMP facilities must be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately. With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) must be identified and repaired immediately. Cracks, voids and undermining should be patched/filled to prevent additional structural damage. Trees and root



systems should be removed to prevent growth in cracks and joints that can cause structural damage.

- b. *Sediment Removal* Remove sediment from the inlet structure and sedimentation chamber when sediment buildup reaches a depth of 6 inches or when the proper functioning of inlet and outlet structures is impaired. Sediment should be cleared from the inlet structure at least every year and from the sedimentation basin at least every 5 years.
- c. *Media Replacement* Maintenance of the filter media is necessary when the drawdown time exceeds 48 hours. When this occurs, the upper layer of sand should be removed and replaced with new material meeting the original specifications. Any discolored sand should also be removed and replaced. In filters that have been regularly maintained, this should be limited to the top 2 to 3 inches. Debris and litter shall be removed during regular mowing.
- d. *Debris and Litter Removal* Debris and litter will accumulate near the sedimentation basin outlet device and should be removed during regular mowing operations and inspections. Particular attention should be paid to floating debris that can eventually clog the control device or riser.
- e. *Filter Underdrain* Clean underdrain piping network to remove any sediment buildup as needed to maintain design drawdown time.
- f. *Mowing* Grass areas in and around sand filters must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. Vegetation on the pond embankments should be mowed as appropriate to prevent the establishment of woody vegetation.
- g. *Pumps and Irrigation System* The pumps and irrigation system must be inspected or tested a minimum of six (6) times per year to show all components are operating as intended. Two (2) of these six (6) inspections should be after rain events to ensure that the irrigation system and all of its components perform as designed. This includes controls such as weather stations or rain sensors, delays, valves, alarm system, distribution lines, or other components as specified in the system design. Sprinkler heads must be checked to determine if any are broken, clogged, or not spraying properly. All inspection and testing reports must be kept on site and accessible to the City of Austin.

3.0 Replacement Parts

The following is a list of partial sedimentation/biofiltration pond & irrigation system system parts that are expected to need periodic replacement:

Sand within filter basin. Underdrain piping Clean outs.



Information including vender names, part numbers, and vendor contact information shall be determined from the irrigation system contractor subsequent of the system, then documented below in this maintenance manual:

Sand Vendor, Specification:

Underdrain piping Vendor, Manufacturer and Model:

Clean out Vendor, Manufacturer and Model:

4.0 Inspections

Inspections of the system shall be performed twice annually, with an additional inspection performed immediately following a 25-year or 100-year frequency storm. Each inspection shall be documented in the table below with any deficiencies noted, whether a repair, maintenance, or retrofit action was required to resolve the issue, and finally with the date of the deficiency being resolved.



Inspection Log					
Date of Inspection	Inspector	Deficiency Discovered?	Repair (R), Maintenance (M), Retrofit (RF) Required?	Corrective Action Taken	Date of Resolution of Deficiency

Signature of owner/responsible party:

Signature: Date: 8/10/23

950I B Manchaca Rd. | Suite 220 | Austin, Texas 78748 | www.austincivil.com | info@austincivil.com | Office 5I2 306 0018 | Fax 5I2 306 0048

Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999

Jimmy Seal Print Name		
	Owner	
	Title - Owner/President/Other	
of	<u>Jubilee Christian Center</u> Corporation/Partnership/Entity Name	
have authorized	Hunter Shadburne, P.E Print Name of Agent/Engineer	
of	Austin Civil Engineering Print Name of Firm	

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

- 1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
- 2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
- 3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
- 4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
- 5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

Applicant's Signature

8/10/23 Date

THE STATE	OF _	Texas	§
County of	Tr.	aurs	§

BEFORE ME, the undersigned authority, on this day personally appeared $\underbrace{Jt_mmy}_{eq} \underbrace{Seql}_{known}$ to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this loop day of August 2023.



NOTARY PUBLIC

<u>Angel Reyes</u> Typed or Printed Name of Notary

MY COMMISSION EXPIRES: Nov 12 2023

Application Fee Form

Regulated Entity Location: <u>3101 W WILLIAM CANNON DR, AUSTIN, TEXAS 78745</u> Name of Customer: <u>Jubilee Christian Center</u> Contact Person: <u>Jimmy Seal</u> Phone: <u>(512) 627-3050</u> Customer Reference Number (if issued):RN Austin Regional Office (3362) Austin Regional Office (3362) Bexar Antonio Regional Office (3362) Bexar Application fees must be paid by check, certified check, or money order, payable to the Texas Cormission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to: Austin Regional Office San Antonio Regional Office Austin Regional Office San Antonio Regional Office Austin Regional Office Deschart Overnight Delivery to: TCEQ - Cashier Austin Regional Office Deschart Delivery to: TCEQ - Cashier Revenues Section 12100 Park 35 Circle Mail Code 214 Building A, 3rd Floor P.O. Box 13088 Austin, TX 78711-3088 (512)239-0357 Site Location (Check All That Apply): Recharge Zone Contributing Zone Plan: One Single Family Residential and Parks Auster Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks Acres \$ Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks Acres Studier Source Austin Second Storage Tank Facility Auster Second Storage Tank Facility Auster Second Storage Tank Facility Cond Cond Cond Cond Cond Cond Cond Cond	Texas Commission on Environmenta	Texas Commission on Environmental Quality				
Name of Customer: Jubile Christian Center Contact Person: Jimmy Seal Phone: (512) 627-3050 Customer Reference Number (if issued):CN Regulated Entity Reference Number (if issued):RN Austin Regional Office (3373) Hays Travis Williamson San Antonio Regional Office (3362) Bexar Gomal Kinney Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to: Austin Regional Office San Antonio R	Regulated Entity Location: 3101 W M		R ALISTIN TEYAS 797	15		
Contact Person: Jimmy Seal Phone: (512) 627-3050 Customer Reference Number (if issued):CN	Name of Customer: Jubilee Christian	Center	I, AUSTIN, TEAAS 787-	<u></u>		
Customer Reference Number (if issued):CN	Contact Person: Jimmy Seal	Pho	ne: (512) 627-3050			
Regulated Entity Reference Number (if issued):RN Austin Regional Office (3373) Hays Travis San Antonio Regional Office (3362) Bexar Medina Comal Kinney Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to: Austin Regional Office San Antonio Regional Office Mailed to: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier Revenues Section 12100 Park 35 Circle Maile do: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier P.O. Box 13088 Austin, TX 78753 Austin, TX 78711-3088 (512)239-0357 Site Location (Check All That Apply): Transition Zone Mater Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential Dwelling Plan: One Single Family Residential Dwelling Acres Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks Plan: Non-residential 6.37 Acres \$ 5,000 Sewage Collection System L.F. \$	Customer Reference Number (if issue	ed):CN	<u>(012) 027 0000</u>			
Austin Regional Office (3373)	Regulated Entity Reference Number	(if issued):RN				
□ Hays □ Travis □ Williamson San Antonio Regional Office (3362) □ □ Uvalde □ Comal □ Winney Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to: □ △ Austin Regional Office □ San Antonio Regional Office □ Mailed to: TCEQ - Cashier ○ Overnight Delivery to: TCEQ - Cashier Revenues Section 12100 Park 35 Circle Mail Code 214 Building A, 3rd Floor P.O. Box 13088 Austin, TX 78753 Austin, TX 78711-3088 (512)239-0357 Site Location (Check All That Apply): □ □ Recharge Zone □ □ Contributing Zone □ Plan: Multiple Single Family Residential Dwelling Acres Water Pollution Abatement Plan, Contributing Zone \$ Plan: Multiple Single Family Residential and Parks Acres Water Pollution Abatement Plan, Contributing Zone \$ Plan: Multi	Austin Regional Office (3373)		-			
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□ Comal □ Kinney Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to: □ Austin Regional Office □ San Antonio Regional Office □ Mailed to: TCEQ - Cashier □ Overnight Delivery to: TCEQ - Cashier Revenues Section 12100 Park 35 Circle Mail Code 214 Building A, 3rd Floor P.O. Box 13088 Austin, TX 78753 Austin, TX 78711-3088 (512)239-0357 Site Location (Check All That Apply): □ □ Recharge Zone □ Contributing Zone □ Plan: One Single Family Residential Dwelling Acres \$ Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks Acres \$ Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks Acres \$ Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential 6.37 Acres \$ 5,000 Sewage Collection System L.F. \$	Bexar	Medina		valde		
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Signature:

Date: <u>8/1</u>0/23

TCEQ-0574 (Rev. 02-24-15)

1 of 2

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

	Project Area in	
Project	Acres	Fee
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional,	< 1	\$3,000
multi-family residential, schools, and other sites	1 < 5	\$4,000
where regulated activities will occur)	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

Project	Cost per Linear Foot	Minimum Fee- Maximum Fee
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	Cost per Tank or Piping System	Minimum Fee- Maximum Fee
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150



TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1 Page on far Submission //f other is sharled along describe in anone annuided									
i. Reason for Submission (if other is checked please describe in space provided.)									
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)									
Renewal (Core Data Form should be submitted with the renewal form) Other									
2. Customer Reference Number (if iss	sued)	3. Regulated Entity Reference Number (if issued)							
CN		for CN or RN numbers in Central Registry**	RN						
SECTION II: Customer Information									
4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)									
New Customer Update to Customer Information									
Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)									
The Customer Name submitted here may be updated automatically based on what is current and active with the									
Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).									
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer below:									
Jubilee Christian Center									
7 TX SOS/CPA Filing Number	Q TV State	Toy ID (44 II II)	0 Federal Tex ID is a set						

4. General C	ustomer	Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)									
New Cus	tomer		Update to Customer Information									
Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)												
The Customer Name submitted here may be updated automatically based on what is current and active with the												
Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).												
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) <u>If new Customer, enter previous Customer below:</u>												
Jubilee Christian Center												
7. TX SOS/CPA Filing Number 8. TX State				Tax ID (11 digits)			9. Federal Tax ID (9 digits) 10. DUNS Number (if applicable)					
			3-00100	6-7	199	- 5	7:	4 - 2	248572	0.		
11. Type of C	11. Type of Customer: Corporation											
Government:	🗌 City 🗌	County 🗌 Federal 🗌] State 🔲 Other		Sole Pr	roprietors	hip		Other: LLC			
12. Number	12. Number of Employees 13. Independently Owned and Operated?											
	✓ 0-20											
14. Custome	14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following											
Owner Operator Owner & Operator												
□ Occupational Licensee □ Responsible Party □ Voluntary Cleanup Applicant □ Other:												
2909 W William Cannon Dr												
15. Mailing												
Auu 633,	City	Austin		State	TX	ZI	P	7874	45	ZIP + 4		
16. Country Mailing Information (if outside USA)												
iseal777@gmail.com												
18. Telephone Number 19. Ex				9. Extensio	xtension or Code			20. Fax Number (if applicable)				
(512) 627-3050									()	-	····)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application) New Regulated Entity Dpdate to Regulated Entity Name Dpdate to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)

The Offices at William Cannon

	r									
23. Street Address of	3101 W	WILLIAM	CANNON D	R						
the Regulated Entity:										
(No PO Boxes)	City	Austin	State	TX	ZIP	7874	5	ZIP + 4		
24. County			•	•		•		•		
	E	Enter Physical Lo	ocation Descript	tion if no st	reet addres	s is prov	ided.			
25. Description to Physical Location:										
26. Nearest City						State		Near	est ZIP Code	
27. Latitude (N) In Decin	nal:	30.209646		Longitude (ongitude (W) In Decimal:			97.822362		
Degrees	Minutes	S	Seconds	Degr	ees	Ν	linutes	Seconds		
30		12	34.70		97 4				20.50	
29. Primary SIC Code (4 digits) 30. Secondary SIC Code (4 digits) 31. Primary NAICS Code (5 or 6 digits) 32. Secondary NAICS Code (5 or 6 digits)									CS Code	
8011	80	49		541611 561				110		
33. What is the Primary	Business o	of this entity?	Do not repeat the SI	C or NAICS de	scription.)					
MEDICAL / MIXE	ED USE (OFFICE								
	2909 W WILLIAM CANNON DR									
34. Mailing										
Address:	City	Austin	State	тх	ZIP	7	8745	ZIP + 4	5123	
35. E-Mail Address				jsea	al777@gma	il.com				
36. Telepho	36. Telephone Number 37. Extension or Code 38. Fax Number (if applicable)									
(512)627-3050 () -										
9. TCEQ Programs and ID orm. See the Core Data Form	D Numbers	Check all Programs or additional guidan	and write in the poce.	ermits/registr	ation number	s that will b	e affecteo	l by the updates	submitted on this	
Dam Safety	Distric	ts	Edwards Aquife		Emissions Inv		Inventory Air		Industrial Hazardous Waste	
Municipal Solid Waste	New S	Source Review Air	OSSF		Petrol	Petroleum Storage Tank		PWS		
Sludge	Storm Water Title V Air		Title V Air							
		14/ 1		A · 1/		D: 1 /				
U Voluntary Cleanup		vvater		Agriculture		Rights		U Other:		
SECTION IV: Pre	enarer I	nformation								

40. Name: Calvin Weiman 41. Title: Project Engineer 42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address (512) 306-0018 () TeamH@austincivil.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Austin Civil Engineering	Ingineer			
Name (In Print):	Calvin Weiman	Phone:	(512) 306- 18		
Signature:	Cali J. Wei			Date:	9/19/2023