PHONE 512.930.9412 FAX 512.930.9416 > > SURVEYORS	Water Pollution Abatement Plan
ZELL >> PLANNERS	For Williams Senior Living
GERGERGER services	In the City of Georgetown Williamson County, Texas
STE NG FIRM F-181	Submitted: 7/24/2023
RESS 1978 S. AUSTIN AVENUE GEORGETOWN, TX 78626 STEGERBIZZELL.COM TEXAS REGISTERED ENGINEERI	Job Number: 22868
A D D W E B	

Water Pollution Abatement Plan

For

Williams Senior Living

In

City of Georgetown

Williamson County, Texas

Job Number: 22868

Prepared by:



Texas Registered Engineering Firm-181 1978 S. Austin Ave Georgetown, TX 78626

Water Pollution Abatement Plan Checklist

- (1) Edwards Aquifer Application Cover Page (TCEQ-20705) (2) General Information Form (TCEQ-0587) Attachment A - Road Map Attachment B - USGS / Edwards Recharge Zone Map Attachment C - Project Description (3) Geologic Assessment Form (TCEQ-0585) Attachment A - Geologic Assessment Table (TCEQ-0585-Table) Comments to the Geologic Assessment Table Attachment B - Soil Profile and Narrative of Soil Units Attachment C - Stratigraphic Column Attachment D - Narrative of Site Specific Geology Site Geologic Map(s) Table or list for the position of features' latitude/longitude (if mapped using GPS) (4) Water Pollution Abatement Plan Application Form (TCEQ-0584) Attachment A - Factors Affecting 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 requesting an exception) Site Plan (5) 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 sealing a feature 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 (6) Permanent Stormwater Section (TCEQ-0600) Attachment A - 20% or Less Impervious Cover Waiver, if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the 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 BMPs not based on Complying with the Edwards Aguifer Rules: Technical Guidance for BMPs
 - Attachment I Measures for Minimizing Surface Stream Contamination
 - (7) Agent Authorization Form (TCEQ-0599), if application submitted by agent
 - (8) Application Fee Form (TCEQ-0574)
 - (9) Check Payable to the "Texas Commission on Environmental Quality"
 - (10)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: Williams Senior Living				2. Regulated Entity No.: N/A				
3. Customer Name: Novak Williams Senior Living, LLC		4. Customer No.: N/A						
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-residential		8. Site		e (acres):	9.29	
9. Application Fee:	\$5,000	10. Permanent BMP(s			s):	Batch Detention Basin		
11. SCS (Linear Ft.):	N/A	12. AST/UST (No. Tanks)			nks):	N/A		
13. County:	Williamson	14. W	14. Watershed:				Berry Creek	

Application Distribution

Г

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

Austin Region

San 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.

David Plat

Print Name of Customer/Authorized Agent

7/24/2023

Signature of Customer/Authorized Agent

Date

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

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: David Platt

Date: 7/24/2023

Signature of Customer/Agent:

Project Information

- 1. Regulated Entity Name: Williams Senior Living
- 2. County: Williamson
- 3. Stream Basin: San Gabriel
- 4. Groundwater Conservation District (If applicable): _____
- 5. Edwards Aquifer Zone:

\times	Recharge Zone
	Transition Zone

6. Plan Type:

🔀 WPAP	AST
SCS	🗌 UST
Modification	Exception Request

7. Customer (Applicant):

Contact Person: Cade Novak Entity: Novak Williams Senior Living, LLC Mailing Address: 1500 Rivery Boulevard., Suite 2200 City, State: Georgetown, TX Zip: 78628 Telephone: <u>512-943-4703</u> FAX: <u>N/A</u> Email Address: cnovak@novakbros.com

8. Agent/Representative (If any):

Contact Person: David Platt **Entity: Steger Bizzell** Mailing Address: 1978 S. Austin Avenue City, State: Georgetown, TX Zip: 78626 Telephone: 512-930-9412 Email Address: dplatt@stegerbizzell.com

9. Project Location:

The project site is located inside the city limits of Georgetown.

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

FAX: N/A

- The project site is not located within any city's limits or ETJ.
- 10. \bowtie 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.

FROM AUSTIN: TRAVELLING NORTH ON I-35, TAKE EXIT 262 ONTO S I-35 FRONTAGE ROAD. STAY ON S I-35 FRONTAGE ROAD THEN TURN LEFT ONTO WILLIAMS DRIVE. CONTINUE ON WILLIAMS DRIVE FOR APPROXIMATELY 3.8 MILES. THE SITE IS LOCATED ON THE RIGHT.

- 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. X 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:

🔀 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. \square 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: 6/15/2023

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
- $\overrightarrow{\mathbf{X}}$ 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
- (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:

TCEQ cashier

 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. \square 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.





Attachment B – USGS/Edwards Recharge Zone Map



Attachment C – Project Description

Novak Williams Senior Living, LLC, is proposing to convert an 9.29-acre undeveloped site into a senior high-density multi-family site on Lot 4, Blocks A & B, of the Schiller Business Park Subdivision (currently being platted) in Georgetown, Texas. This development will include the construction of one building with associated parking, drive aisles, sidewalks, utilities, and water quality facility. There is an adjacent project currently being designed which will include a road along with associated sidewalks that go through Lot 4. After platting and right-of-way dedication, the total acreage for the proposed Williams Senior Living project will decrease from 9.29 to 8.55 acres. The proposed road being dedicated will be treated with the adjacent project. Please see WPAP RN number, "RN111695623" for more information regarding the adjacent project.

Although the land is undeveloped, there are gravel and concrete-paved areas on the site totaling 0.28 acres (3.27%) of impervious cover. All the existing impervious cover will be removed prior to construction. A manmade well was also discovered during the geologic assessment. The well is currently not in use and will be properly abandoned prior to construction. Proposed impervious cover within the development will be 4.79 acres (56.0%). We are limited to 50% impervious cover on this site and will need to use permeable pavers to offset the impervious cover.

There are 2 sensitive manmade geologic features within the site's boundaries: a water well and an underground septic tank/field. Prior to construction, the well will be plugged and abandoned appropriately. In addition, the underground septic tank/field will be appropriately abandoned.

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:9.29-Acre Undeveloped Tract4775 Williams Drive, Georgetown, Williamson Co., Texas

Project Information

- 1. Date(s) Geologic Assessment was performed: January 10, 2023
- 2. Type of Project:

Х	WPAP	AST
Х	SCS	UST

- 3. Location of Project:
 - X Recharge Zone
 - Transition Zone
 - Contributing 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, I Characteristics	nfiltration & Thicknes	SS	* Soil Group Definitions (Abbreviated)	
Soil Name	Group*	Thickness (feet)	A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.	
Doss silty clay, 1-5% slopes (DoC)	С	up to 1.5	B. Soils having a <u>moderate</u> <u>infiltration</u> rate when thoroughly wetted.	
Eckrant extremely stony clay, 0-3% slopes (EeB)	D	up to 0.9	C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted.	
			<u>infiltration</u> rate when thoroughly 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'' = 300'	
Site Soils Map Scale (if more	than 1 soil type):	1'' = 300'

9. Method of collecting positional data:

X Global Positioning System (GPS) technology.

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

- 10. X 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
 - X There are <u>1</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.



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.

ATTACHMENT A GEOLOGIC ASSESSMENT TABLE

GEOL	PROJECT NAME: 9.29-Acre Undeveloped Tract																			
LOCATION						FEATURE CHARACTERISTICS							EVALUATION		PHYSICAL		. SETTING			
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9	1	10	1	1	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NSIONS (FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY	CATCHME (ACF	ENT AREA RES)	TOPOGRAPHY
						х	Y	Z		10						<40	<u>>40</u>	<1.6	>1.6	
ONSITE																				
MB-1	30.689671	-97.721674	MB	30	Ked	unk	unk	unk					Х	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	hillside
MB-2	30.689874	-97.722554	MB	30	Kgt	unk	unk	unk					Х	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	hillside
OFFSITE																				
MB-3	N/A	N/A	MB	30	Kgt	unk	unk	unk					Х	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	hillside
MB-4	N/A	N/A	MB	30	Kgt	unk	unk	unk					Х	<u><</u> 5	<u><</u> 35	<u><</u> 35		N/A	N/A	hillside
* DATUM:												10								
ZATIPE	'E TYPE 2B POINTS						VA INFILLING													
	Cave	30 N None, exposed bedrock																		
SC	Solution ca	avity		20 C Coarse - cobbles, breakdown, sand, gravel																
SF	Solution-er	olution-enlarged fracture(s) 20 O Loose or soft mud or soil, organics, leaves, sticks, dark o							ticks, dark co	olors										
F	Fault				20) F Fines, compacted clay-rich sediment, soil profile, gray or red colors														
0	Other natu	ther natural bedrock features 5 V Vegetation. Give details in narrative description																		
MB	Manmade	le feature in bedrock 30 FS Flowstone, cements, cave deposits																		
SW	Swallow he	ole			30	30 X Other materials														
SH	Sinkhole				20															
CD	Non-karst closed depression 5						12 TOPOGRAPHY													
Z	Zone, clustered or aligned features 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: January 16, 2023

hite Day

Sheet 1 of 1

ATTACHMENT B STRATIGRAPHIC COLUMN

SYSTEM	SERIES	GROUP	FORMATION		LITHOLOGY/ THICKNESS			
QUATERNARY				TERRACE AND A	ALLUVIUM SAND, SILT, CLAY, AND GRAVEL HICKNESS NOT REPORTED			
		AUSTIN		СН	ALK, MARL, AND LIMESTONE 325–420 FEET THICK			
	UPPER CRETACEOUS (GULFIAN)	EAGLE FORD	EAGLE FORD SHALE AND SILTY LIMESTONE TO CALCAREOUS SILTSTONE 25–65 FEET THICK					
			LIMESTONE BUDA UP TO 45 FEET THICK					
CRETACEOUS			DEL RIO		CLAY 40–70 FEET THICK			
	LOWER CRETACEOUS (COMANCHEAN)		GEORGETOWN		LIMESTONE AND MARL 30–80 FEET THICK			
		VER CEOUS ICHEAN)	EDWARDS	LIN	MESTONE AND DOLOSTONE 60–350 FEET THICK			
			COMANCHE PEAK		LIMESTONE AND MARL UP TO 80 FEET THICK	THTE OF TEXA		
			WALNUT FORMATION		LIMESTONE AND MARL UP TO 130 FEET THICK			
			PALUXY SAND		SAND UP TO 10 FEET THICK	GEOLOGY No. 1109		
Geologic ur	nit that directly unde	erlies the subject prop	erty		\	ONAL & GEOSCIA		
TROJAN & A Tironmental Co Box 338 rndale, Texas 76 2) 917-3695	SSOCIATES nsultants 577		Scale: Date: Project: MTA Project:	No Scale January 16, 2023 TCEQ Geologic Assessment 2PC-22-011	STRATIGRAPHIC 9.29-ACRE UNDEVEL 4775 WILLIAMS GEORGETOWN, WILLIAMSON (C COLUMN OPED TRACT DRIVE COUNTY, TEXAS 7863		

ATTACHMENT C SITE GEOLOGY AND FEATURES

TOPOGRAPHY AND SURFACE WATER HYDROLOGY

According to the Williamson County GIS and City of Georgetown GIS, the study area slopes very gently toward the northeast (refer to Figure 3 of Attachment D). Topographic elevations on the study area range between approximately 898 and 877 feet above mean sea level (msl), with the highest elevations located along the southwest property boundary (along Williams Drive) and the lowest elevations near the northern-most property corner.

As is depicted on Figure 3 of Attachment D, stormwater runoff generated within the study area boundaries flows primarily toward the northeast and discharges offsite to a designated drainage easement located directly northeast of the property. Offsite runoff flows along the easement to the northwest for approximately 880 feet and discharges to an ephemeral stream that crosses Big Bend Trail. Based on reconnaissance of the property, all onsite runoff was observed to represent overland (sheet) flow. The site reconnaissance did not identify any onsite defined drainage ways/streams, nor any active or inactive springs.

The study area lies in the Berry Creek watershed. This area exhibits very gently sloping drainage basins with relatively sparse "defined" creeks/streams. Berry Creek lies approximately one mile to the north-northeast of the tract. According to review of a FEMA Flood Insurance Rate Map and Williamson County GIS, no portion of the study area lies within the 100-year floodplain. Moreover, no portion of the property lies within an area designated as a waterway setback zone.

SOILS

According to the Soil Survey of Williamson 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):

Soil Component Name: Soil Surface Texture:	Doss silty clay, 1–5% slopes (DoC) Dark grayish-brown silty clay to approximately 9 inches, underlain by brown silty clay loam to about 19 inches, underlain by limy earth interbedded with fragments of limestone
Hydrologic Group: Soil Drainage Class:	Permeability is slow; available water capacity is low Well drained
Soil Component Name: Soil Surface Texture:	Eckrant extremely stony clay, 0 – 3% slopes (EeB) Very dark gray, extremely stony silty clay loam to approximately 11 inches, underlain by indurated limestone

Hydrologic Group:	Permeability is very slow; available water capacity
	is very low; runoff is rapid
Soil Drainage Class:	Well drained

Based on the *Soil Survey* and as is depicted on Figure 4 of Attachment D, the Eckrant extremely stony clay soils are reported to cover majority of the study area, while the Doss silty clay covers a relatively small component of the property near the westernmost property corner. Shallow 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*. The soils were found to be relatively shallow to medium-thick and fine-grained. The Eckrant soils on the central and northeast components of the tract were observed to exhibit modest to high concentrations of embedded rock fragments up to 5.5 feet in size.

GEOLOGY

According to the Geologic Map of the West Half of the Taylor, Texas 30X60 Minute Quadrangle and the Geologic Atlas of Texas, Austin Sheet, the study area is reported to be underlain by the Georgetown Formation (Kgt) (refer to Figure 5 of Attachment D for a regional geologic map and the stratigraphic column in Attachment B). The Georgetown Formation 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 over the entire study area, no true geologic rock outcrops were observed at ground surface. However, "loose" rock fragments up to approximately 5.5 feet in size were observed embedded in surface soils, primarily on the northeastern half of the tract (refer to photograph in Attachment E). All bedrock fragments were observed to be light gray, fine- to very fine-grained and hard. Where access was available, no true geologic outcrops were observed on neighboring properties at distances of up to 200 feet from all boundaries of the tract.

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- to 50-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:	30.689671
Longitude:	-97.721674
Dimensions:	unknown

Onsite Feature MB-1 represents a water well located on the northeastern half of the study area (refer to the Geologic Assessment Table in Attachment A, Figure 6 of Attachment D and photograph in Attachment E). The well was observed to be not functional and in an abandoned state. In the event that the well is not resurrected for future use, the well should be plugged and abandoned according to appropriate State rules. Onsite Manmade Feature in Bedrock MB-2

Latitude:	30.689874
Longitude:	-97.722554
Dimensions:	unknown

Onsite Feature MB-2 represents an underground septic tank/field located directly northwest of the former residence on the central part of the study area (refer to the Geologic Assessment Table in Attachment A and Figure 6 of Attachment D). The exact location of the underground infrastructure could not be determined, and there was no information available to determine whether the underground tank was properly closed/abandoned or removed. If still present, this feature is engineered, fully-enclosed and installed in bedrock that presumably showed no evidence of karst features during the installation process.

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

Features represented by offsite Feature MB-3 qualify as manmade features in bedrock. The features include any/all underground infrastructure that has been installed along the southwest property boundary – along Williams Drive – including a water line and cable (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 these features will not be affected by future development on the tract. 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 Verde Vista directly east of the eastern-most property corner (refer to Geologic Assessment Table in Attachment A and Figure 6 of Appendix D). Based on visual inspection of this offsite area, the infrastructure was observed to include a water line and gas line. 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 these features 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 primarily 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" = 300' (approx.) January 16, 2023 TCEQ Geologic Assessment t: 2PC-22-011

FIGURE 2

SITE AERIAL PHOTOGRAPH

9.29-ACRE UNDEVELOPED TRACT 4775 WILLIAMS DRIVE GEORGETOWN, WILLIAMSON COUNTY, TEXAS 78633






ONSITE FEATURES

MB-1: Manmade feature in bedrock (water well)

MB-2: Manmade feature in bedrock (septic tank/field; area is approximate)

OFFSITE FEATURES (within 200')

MB-3: Area of manmade features in bedrock (underground infrastructure)

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





NO ONSITE OR OFFSITE KARST FEATURES IDENTIFIED

NOTES

Kgt – Georgetown Formation Refer to Attachment C for feature details.

M. TROJAN & ASSOCIATES

Environmental Consultants

P.O. Box 338 Thorndale, Texas 76577 (512) 917-3695 Scale: Date: Project: MTA Project 1" = 300' (approx.) January 16, 2023 TCEQ Geologic Assessment 2PC-22-011 FIGURE 6

SITE GEOLOGIC MAP

9.29-ACRE UNDEVELOPED TRACT 4775 WILLIAMS DRIVE GEORGETOWN, WILLIAMSON COUNTY, TEXAS 78633

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: David Platt

Date: 7/24/2023

Signature of Customer/Agent:

Regulated Entity Name: Williams Senior Living

Regulated Entity Information

1. The type of project is:

Residential: Number of Lots:

Residential: Number of Living Unit Equivalents:<u>214 Multi-Family Units</u>

- Commercial
- Industrial

Other:____

- 2. Total site acreage (size of property): 8.55
- 3. Estimated projected population: 161
- 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	87,038	÷ 43,560 =	2.00
Parking	94,525	÷ 43,560 =	2.17
Other paved surfaces	26,968	÷ 43,560 =	0.62
Total Impervious Cover	208,531	÷ 43,560 =	4.79

Table 1 - Impervious Cover Table

Total Impervious Cover 4.79 ÷ Total Acreage 8.55 X 100 = 56.0% 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>40,125</u> Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day <u>40,125</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>Pecan Branch</u> <u>Wastewater</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.

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):

FEMA FIRM Map Panel Number 48491C0280E effective September 26, 2008.

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.):

\square	There are <u>1</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.

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

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

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.

Attachment A – Factors Affecting Surface Water Quality

The following factors are anticipated to adversely affect surface water and groundwater quality:

- Disturbance of vegetated areas.
- Leaking oil from parked vehicles.
- Malfunctioning wastewater collection system and spill on site.
- Loss of vegetative ground cover due to inadequate watering or mismanagement.
- Over fertilizing vegetative areas.
- The use of roads by automotive traffic and subsequent oil/grease pollutants from normal use.
- The accidental or improper discharge of the following:
 - a) Concrete
 - b) Cleaning solvents
 - c) Detergents
 - d) Petroleum based products
 - e) Paints
 - f) Paint solvents
 - g) Acids
 - h) Concrete additives

Attachment B – Volume and Character of Storm Water

The character of the storm water generated by this project is typical of a high-density residential-type development. The drainage on the site flows to the northeast. The proposed Williams Senior Living project is composed of a single drainage area which discharges into Berry Creek and then into the San Gabriel River further downstream. A summary of the drainage calculations is below.

	Storm Frequency							
		Peak I	Flow [cfs]					
Basin	2 Year 10 Year 25 Year 100 Year							
Existing Basin A	11.3	27	36.4	52.1				
Proposed Basin A	23.3	43.2	54.8	73.8				
Delta	12	16.2	18.4	21.7				
Detention	11	26.4	35.7	51.5				
Delta	-0.3	-0.3 -0.6 -0.7 -0.6						

Table 1: Peak Flow Comparison

PROJECT INFORMATION

the Geologic Assessment are shown herein.

been approved for this development.

20. SUP, SENIOR LIVING SPECIAL USE PERMIT, ORD 2022-83 (2022-10-SUP), has

SITE ADDRESS:	4775 Williams Drive Georgetown, TX 78633	١٨
OWNER/ APPLICANT:	Novak Williams Senior Living, LLC 1500 Rivery Blvd., Suite 2200 Georgetown, Texas 78628 512-943-4703 https://novakbros.com/	V
ARCHITECT:	HEDK Architects 4595 Excel Parkway Addison, TX 75001 214-520-8878 https://hedk.com/	
CIVIL ENGINEER:	Steger Bizzell 1978 S. Austin Avenue Georgetown, TX 78626 512-930-9412 info@stegerbizzell.com https://stegerbizzell.com/	
MEP:	Jordan & Skala Engineers 10375 Richmond Ave #300 Houston, TX 77042 281-617-3200 https://www.jordanskala.com/	V
LA:	Covey Planning and Landscape Architecture 800 S Austin Ave Georgetown, TX 78626 512-887-5311 https://coveylandscape.com/	
ORIGINAL DATE:	April 17, 2023	
REVISION DATE:		
ACREAGE:	8.55 Acres	
EXISTING IMPERVIOUS COVER:	0.27 Acres (3.1%)	
PROPOSED IMPERVIOUS COVER:	4.79 Acres (56.0% Limits of Construction)	
LIMITS OF CONSTRUCTION:	8.55 Acres	
LEGAL DESCRIPTION:	Lot 4, Blocks A & B of the Schiller Business Park Subdivision as recorded in Doc. # of the O.P.R.W.C.T.	
PROPOSED USE:	Multifamily, Attached	
UTILITY PROVIDERS:	Domestic Water - City of Georgetown Wastewater - City of Georgetown	
	City of Georgetown Utility Systems 300 Industrial Ave. Georgetown, TX 78626 512-930-3640 gus.georgetown.org	
	Electric - Pedernales Electric Coorperative, Inc. 10625 W. Highway 29 Liberty Hill, TX 78642 888-554-4732 https://www.pec.coop/	
ZONING INFORMATION:	C-1, SUP- SENIOR LIVING SPECIAL USE PERMIT, ORD 2022-83 (2022-	10-SUP)
SITE PLAN NOTES		
 It is the responsibility of the provenent of the subject conformance with this Site Development shall comply (UDC), the City of Georgetow the Development Manual and a This Site Development Plan shall signage requires a separate 	roperty owner, and successors to the current property to property and any improvements are maintained in relopment Plan. y with all standards of the Unified Development Code on Construction Standards and Specifications Manual, all other applicable City standards. all meet the UDC Stormwater requirements.	
Department. No signage is app 5. Sidewalks shall be provided in a 6. Driveways will require appro	roved with the Site Development Plan. accordance with the UDC. oval by the Development Engineer of the City of	
 Outdoor lighting shall comply w Screening of mechanical equ Chapter 8 of the UDC. The sc 	rith Section 7.04 of the UDC. uipment, dumpsters and parking shall comply with creening is shown on the Landscape and Architectural	
 Plans, as applicable. The companion Landscape Planstalled to meet all requirement All maintenance of required landscape Planstalled to meet all requirement 	lan has been designed and plant materials shall be its of the UDC. ndscape shall comply with the maintenance standards	
of Chapter 8 of the UDC. 11. A separate Irrigation Plan shall	be required at the time of building permit application.	
 Fire flow requirements of <u>1500</u> Any Heritage Tree noted on this maintenance, care, pruning ar Code. 	gallons per minute are being met by this plan. s Site Development Plan is subject, in perpetuity, to the nd removal requirements of the Unified Development	
14. The construction portion of the Texas Licensed Professiona concurrence of compliance, th project are hereby approved su Details Manual and all other a	se plans were prepared, sealed, signed and dated by a IL Engineer. Therefore, based on the engineer's ne construction plans for construction of the proposed ubject to the Standard Construction Specifications and applicable City, State and Federal Requirements and	
Lodes. 15. This project is subject to all Ci	ity Standard Construction Specifications and Details in	
eπect at the time of submittal of 16. Where no existing overhead shall be located along the s infrastructure is to be relocated	r the project to the City. infrastructure exists, underground electric utility lines street and within the site. Where existing overhead d, it shall be reinstalled underground and the existing	NOTE:
facilities shall be removed at the 17. All electric and communication	e discretion of the Development Engineer. infrastructure shall comply with UDC Section 13.06.	CONTRACTOR SHALL UNCOVER AND VER HORIZONTALLY AND VERTICALLY, OF ALL
 The property subject to this ap of the City of Georgetown 	plication is subject to the Water Quality by Regulations	ALONG THE PROPOSED ROUTE. IF A CON THE PROPOSED PROJECT AND ANY EXIS
 A Geologic Assessment, in ac Regulations, was completed of 	ccordance with the City of Georgetown Water Quality n 1/10/2023. Any springs and streams as identified in	CONTRACTOR SHALL NOTIFY THE ENGINE THAT THE CONFLICT CAN BE RESOLVED.

SITE DEVELOPMENT PLAN (2023-21-SDP) WILLIAMS SENIOR LIVING 4775 WILLIAMS DRIVE CITY OF GEORGETOWN WILLIAMSON COUNTY, TEXAS



Location Map 1" = 1000' @ 22" x 34"



TEXAS ONE-CALL 800-344-8377

NOTE TO CONTRACTOR:

CONTRACTOR IS TO FURNISH A SET OF CONSTRUCTION PLANS BACK TO THE ENGINEER AT THE END OF THE PROJECT WITH ALL DEVIATIONS NOTED IN RED INK ON THE PLAN SHEETS. CONT



	STE	GER		BIZZ	ZELL	
ADDRESS	1978 S. AUSTIN	I AVENUE		GEORGETOWN,	TX 78626	
METRO	512.930.9412	TEXAS REGISTER TBPLS	RED ENGINEER	ING FIRM F-181 3700	WEB STEGERBIZZELL.COM	
0550 (1050		>>ENGINEERS >	>PLANNERS	>>SURVEYORS	S	

Sheet #	Sheet Title	Sheet #	Sheet Title
01	COVER	18	SEWER DETAILS (CONT.)
02	GENERAL NOTES	19	OVERALL STORM SEWER PLAN
03	PLAT	20	STRM-A01 PLAN & PROFILE - STA. 0+00 TO END
04	EROSION & SEDIMENTATION CONTROL PLAN	21	STRM-B01 PLAN & PROFILE - STA. 0+00 TO END
05	EROSION & SEDIMENTATION CONTROL DETAILS	22	GRADING PLAN
06	TREE MITIGATION PLAN	23	DECEL LANE PLAN
07	TREE MITIGATION NOTES & DETAILS	24	PAVING, STRIPING, AND SIGNAGE PLAN
08	EXISTING DRAINAGE MAP	25	DRAINAGE, PAVING, STRIPING, & SIGNAGE DETAILS
09	DEVELOPED DRAINAGE MAP	26	DRAINAGE, PAVING, STRIPING, & SIGNAGE DETAILS (CONT.)
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ITE TRIP GENERATION	N:
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BENCHMARK

Warning!
There are existing water pipelines, underground te cables and other above and below ground utilities vicinity of this project. The Contractor shall contac appropriate companies prior to any construction in area and determine if any conflicts exist. If so, the Contractor shall immediately contact the Engineer shall revise the design as necessary.



Sheet List Table

LANDSCAPE PLAN LANDSCAPE DETAILS & SCHEDULES L200

7777777 lephone s in the act all the _____

2"x3" SPACE RESERVED FOR CITY APPROVAL STAMP

COG Project Number: Project Number: Sheet

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

HANDICAP ACCESSIBILITY NOTES:

I. TEXTURES SHALL CONSIST OF EXPOSED CRUSHED STONE AGGREGATE, ROUGHENED CONCRETE, RUBBER, RAISED ABRASIVE STRIPS, OR GROOVES EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP. SURFACES THAT ARE RAISED, ETCHED, OR GROOVED IN A WAY THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED.

2. FOR PURPOSES OF WARNING, THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE A LIGHT REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES.

3. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 8 FEET WIDE.

PARKING SPACES AND AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.

5. ACCESSIBLE AISLES SHALL BE A MINIMUM OF 5 FEET WIDE. VAN ACCESSIBLE AISLES SHALL BE A MINIMUM OF 8 FEET WIDE.

6. ADDITIONAL INFORMATION ON CURB RAMPS, PARKING SPACES AND AISLES MAY BE FOUND IN THE CURRENT ADDITION OF TEXAS ACCESSIBILITY STANDARDS (TAS) PREPARED AND ADMINISTERED BY THE T.D.L.R.

7. ANY PART OF THE ACCESSIBLE ROUTE WITH A SLOPE GRATER THAN 1:20 (5%) SHALL BE CONSIDERED A RAMP. IF A RAMP HAS A RISE GREATER THAN 6 INCHES OR A HORIZONTAL PROJECTION GREATER THAN 72 INCHES, THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. THE ONLY EXCEPTION IS AT CURB RAMPS. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. CURB RAMPS SHALL BE PROVIDED WHERE EVER AN ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB. CURB RAMPS ARE GENERALLY INTERPRETED AS ONLY THE PORTION TYING DIRECTLY INTO THE ROADWAY.

8. ALL SIDEWALK CROSS-SLOPES SHALL NOT EXCEED 1:50, UNLESS A VARIANCE IS PROVIDED BY TDLR.

9. UNDER NO CIRCUMSTANCE, REGARDLESS OF WHAT IS SHOWN IN THESE PLANS, IS THE CONTRACTOR RELIEVED OF HIS SOLE RESPONSIBILITY FOR COMPLIANCE WITH ALL ACCESSIBILITY LAWS AND/OR RULES BY THE ADA, TDLR OR OTHER REGULATORY AGENCY. SEE GENERAL NOTES SHEET FOR ADDITIONAL INFO.

ACCESSIBILITY NOTES

- Project shall be constructed in full compliance with the Texas Accessibility Standards (TAS) 2012.
- Slopes in the direction of pedestrian travel shall not exceed 5% (1:20) or have a cross slope greater than 2% (1:48). This shall include routes that cross-vehicular ways including but not limited pedestrian/ vehicular ways such as street intersections.
- Exception: Per TAS 405.8 and 68.102 (1) grades at the new sidewalks parallel to the streets shall be equal to, or less than, the street grade. Should the new sidewalks exceed the street grade, and the new sidewalk grades exceed 5% in the direction of travel, ramps complying with TAS 405 are required at these conditions.

Curb Ramps:

- A. Curb ramps shall not exceed 8.3% (1:12) in the direction of pedestrian ravel. B. Curb ramps flares (wings) shall not exceed 1:10.
- C. Minimum width of a curb ramp is 36".
- D. Top of the curb ramp must be 2% in all directions for an area 36" wide and 48"deep
- When truncated domes are used, the truncated dome system shall extend the full width of the curb ramp and for a minimum depth of 24" at the bottom of the curb ramp.
- Returned curb ramps shall only be used where the adjacent surface on one or both sides of the curb ramp do not allow pedestrian travel such as but not limited to stop lights, stop signs and permanently mounted waste receptacles.
- There shall be no changes in level greater than 1/4" on any accessible route or 1/2" with a 1:2 bevel.
- Decomposed granite surfaces, or similar Engineer-approved surfaces shall be compacted tight and maintained by the Owner at all times.
- Provide directional signage using the international symbol of accessibility when not all routes are accessible. Signage shall be placed at the beginning of the route to avoid a patron from proceeding on a non-accessible route.
- Verify that no plantings or other site elements on circulation paths would be protruding objects based on TAS 307 (protrudes more 4" and is higher than 27" from the surface and less than 80" from the surface).

Contractor shall notify the Engineer before proceeding with any Work, which is in conflict with the Texas Accessibility Standards. Contractor is financially responsible for proceeding with any Work without written direction on any clarification from the Engineer.

THESE CONSTRUCTION PLANS HAVE BEEN PREPARED TO FULFILL

THE REQUIREMENTS FOR THE TCEQ FOR WATER POLLUTION

ABATEMENT OVER THE EDWARDS AQUIFER. CONTRACTOR

SHALL CONTACT THE ENGINEER FOR ADDITIONAL DETAILED

CONSTRUCTION PLANS PRIOR TO CONSTRUCTION.

- This water distribution system must be constructed in accordance with the current Texas Commission on Environmental Quality (TCEQ) Rules and Regulations for Public Water System 30 Texas Administrative Code (TAC) Chapter 290 Subchapter D. When conflicts are noted with local standards, the more stringent requirement shall be applied. Construction for public water systems must always, at a minimum, meet TCEQ's "Rules and Regulations for Public Water Systems.
- 2. An appointed engineer shall notify in writing the local TCEQ's Regional Office when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner shall notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the work has been completed essentially according to the plans and change orders on file with the commission as required in 30 TAC $\frac{9290.39(h)}{3}$.
- 3. All newly installed pipes and related products must conform to American National Standards Institute/National Sanitation Foundation (ANSI/NSF) Standard 61-G and must be certified by an organization accredited by ANSI, as required by 30 TAC §290.44(a)(1).
- 4. Plastic pipe for use in public water systems must bear the National Sanitation Foundation Seal of Approval (NSF pw-G) and have an ASTM design pressure rating of at least 150 psi or a standard dimension ratio of 26 or less, as required by 30 TAC 290.44(a)(2).
- . No pipe which has been used for any purpose other than the conveyance of drinking water shall be accepted or relocated for use in any public drinking water supply, as required by 30 TAC §290.44(a)(3).
- 6. Water transmission and distribution lines shall be installed in accordance with the manufacturer's instructions. However, the top of the water line must be located below the frost line and in no case shall the top of the water line be less than 24 inches below ground surface, as required by 30 TAC §290.44(a)(4).
- Pursuant to 30 TAC §290.44(a)(5), the hydrostatic leakage rate shall not exceed the amount allowed or recommended by the most current AWWA formulas for PVC pipe, cast iron and ductile iron pipe. Include the formulas in the notes on the plans.
- o The hydrostatic leakage rate for polyvinyl chloride (PVC) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-605 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

$LD\sqrt{P}$ $Q = \frac{22}{148,000}$

Where:

Where

- Q = the quantity of makeup water in gallons per hour,
- L = the length of the pipe section being tested, in feet, • D = the nominal diameter of the pipe in inches, and
- P = the average test pressure during the hydrostatic test in pounds per square inch (psi). • The hydrostatic leakage rate for ductile iron (DI) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-600 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this
- calculation is correct and most current formula is in use; $SD\sqrt{P}$

 $L = \frac{52}{148,000}$

- L = the quantity of makeup water in gallons per hour, S = the length of the pipe section being tested, in feet,
- D = the nominal diameter of the pipe in inches, and
- P = the average test pressure during the hydrostatic test in pounds per square inch (psi).
- 8. Projects constructed on or after January 4, 2014 must comply with changes to the Safe Drinking Water Act that reduce the maximum allowable lead content of pipes, pipe fittings, plumbing fittings, and fixtures to 0.25 percent.
- 9. The system must be designed to maintain a minimum pressure of 35 psi at all points within the distribution network at flow rates of at least 1.5 gallons per minute per connection. When the system is intended to provide firefighting capability, it must also be designed to maintain a ninimum pressure of 20 psi under combined fire and drinking water flow conditions as required by 30 TAC §290.44(d).
- 10. The contractor shall install appropriate air release devices in the distribution system at all points where topography or other factors may create air locks in the lines. All vent openings to the atmosphere shall be covered with 16-mesh or finer, corrosion resistant screening material or an acceptable equivalent as required by 30 TAC §290.44(d)(1).
- 11. Pursuant to 30 TAC §290.44(d)(4), accurate water meters shall be provided. Service connections and meter locations should be shown on the plans.
- 12. Pursuant to 30 TAC §290.44(d)(5), sufficient valves and blowoffs to make repairs. The engineering report shall establish criteria for this design.
- 13. Pursuant to 30 TAC §290.44(d)(6), the system shall be designed to afford effective circulation of water with a minimum of dead ends. All dead-end mains shall be provided with acceptable flush valves and discharge piping. All dead-end lines less than two inches in diameter will not require flush valves if they end at a customer service. Where dead ends are necessary as a stage in the growth of the system, they shall be located and arranged to ultimately connect the ends to provide circulation.
- 14. The contractor shall maintain a minimum separation distance in all directions of nine feet between the proposed waterline and wastewater collection facilities including manholes and septic tank drainfields. If this distance cannot be maintained, the contractor must immediately notify the project engineer for further direction. Separation distances, installation methods, and materials utilized must meet 30 TAC §290.44(e)(1-4) of the current rules.
- 15. Pursuant to 30 TAC §290.44(e)(5), the separation distance from a potable waterline to a wastewater main or lateral manhole or cleanout shall be a minimum of nine feet. Where the nine-foot separation distance cannot be achieved, the potable waterline shall be encased in a joint of at least 150 psi pressure class pipe at least 18 feet long and two nominal sizes larger than the new conveyance. The space around the carrier pipe shall be supported at five-foot intervals with spacers or be filled to the springline with washed sand. The encasement pipe shall be centered on the crossing and both ends sealed with cement grout or manufactured sealant.
- 16. Pursuant to 30 TAC §290.44(e)(6), fire hydrants shall not be installed within nine feet vertically or horizontally of any wastewater line, wastewater lateral, or wastewater service line regardless of construction.
- 17. Pursuant to 30 TAC §290.44(e)(7), suction mains to pumping equipment shall not cross wastewater mains, wastewater laterals, or wastewater service lines. Raw water supply lines shall not be installed within five feet of any tile or concrete wastewater main, wastewater lateral, or wastewater service line.
- 18. Pursuant to 30 TAC §290.44(e)(8), waterlines shall not be installed closer than ten feet to septic tank drainfields
- 19. Pursuant to 30 TAC \$290.44(f)(1), the contractor shall not place the pipe in water or where it can be flooded with water or sewage during its storage or installation.
- 20. Pursuant to 30 TAC §290.44(f)(2), when waterlines are laid under any flowing or intermittent stream or semi-permanent body of water the water main shall be installed in a separate watertight pipe encasement. Valves must be provided on each side of the crossing with facilities to allow the underwater portion of the system to be isolated and tested.
- 21. The contractor shall disinfect the new water mains in accordance with AWWA Standard C-651 and then flush and sample the lines before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed water line will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer, in accordance with 30 TAC 290.44(f)(3).

		NO.	REVISION	BY	DATE		
	NG!					DESIGNED BY:	DA
cables and of this proje	other above and below ground utilities in the vicinity ct. The Contractor shall contact all appropriate	<u> </u>				АМК	
companies any conflicts	prior to any construction in the area and determine if s exist. If so, the Contractor shall immediately					DRAWN BY:	DA
contact the	Engineer who shall revise the design as necessary.					CHECKED BY:	DA
						APPROVED BY:	DA

GENERAL CONSTRUCTION NOTES

CITY OF GEORGETOWN HERITAGE TREE PROTECTION DURING CONSTRUCTION

1. All construction shall be in accordance with the latest City of Georgetown Technical Specifications and Details. . Prior to beginning construction, the Owner or his authorized representative shall convene a Pre-Construction Conference between the City of Georgetown, Engineer, Contractor, County Engineer (if applicable), Texas Commission on Environmental Quality Field Office, and any other affected parties. Notify all such parties at least 48 hours prior to the time of the conference and 48 hours prior to beginning construction. Written construction notification must be given to the appropriate TCEQ regional office no later than 48 hours prior to commencement of the regulated activity. Information must include the date on which the regulated activity will commence, the name of the approved plan for the regulated activity, the name of the prime contractor and the name and telephone number of the contact person. 3. The Contractor shall give the City a minimum of 48 hours notice before beginning each phase of construction, call 512-930-3555. 4. No blasting will be permitted on this project. 5. Any existing utilities, pavement, curbs, and/or sidewalks damaged or removed will be repaired by the Contractor at his expense before acceptance of the project. 6. The location of any existing water and/or wastewater lines shown on the plans must be verified by the Georgetown Utility Systems Department.

7. Manhole frames, covers, water valve covers, etc., shall be raised to finished pavement grade at the Contractor's expense by a qualified contractor with City inspection. All utility adjustments shall be completed prior to final paving construction.

8. The Contractor is responsible for any damages to any public improvements

9. Replace all destructed CMP culverts with CMP of equal size.

SEQUENCE OF CONSTRUCTION

Note: Other contractors could be working on this site. Coordinate all activities with the activities of others.

- 1. Call all affected parties at least 48 hours prior to beginning any construction to schedule a pre-construction conference and secure all required permits.
- 2. Install temporary erosion controls prior to any clearing and grubbing. Notify the City of Georgetown when installed.
- 3. Clear and grub site.
- 4. Install all utility mains & services.
- 5. Ensure that all underground utility installations are complete.
- 6. Complete construction of driveways, parking, and building.
- 7. Complete final site grading and revegetation.
- Remove and dispose of temporary erosion controls.

. Complete any necessary final dress-up. PERMANENT EROSION CONTROL NOTES

All disturbed areas shall be restored as noted below:

- A minimum of six inches of imported sandy loam topsoil or approved equal shall be placed in all drainage channels (except rock) and on all cleared areas. 1.b. The seeding for permanent erosion control shall be applied over areas
- disturbed by construction as follows, unless specified elsewhere: From September 15 to March 1, seeding shall be with a combination of 1 1.b.a. pound per 1,000 square feet of unhulled Bermuda and 7 pounds per 1,000 square feet of Winter Rye with a purity of 95% with 90%
- germination. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 3 pounds per 1,000 square feet with a purity of 95% with 85% germination.
- Fertilizer shall be slow release granular or pelleted type and shall have an 1.c. analysis of 15-15-15 and shall be applied at the rate of 23 pounds per acre once at the time of planting and again once during the time of establishment. 1.d. The planted area shall be irrigated or sprinkled in a manner that will not erode the top soil, but will sufficiently soak the soil to a depth of six inches. The irrigation shall occur at ten-day intervals during the first two months. Rainfall

occurrences of 1/2 inch or more shall postpone the watering schedule for one

Mulch type used shall be Mulch, applied at a rate of 1,500 pounds per acre. 1.e.

TEMPORARY EROSION CONTROL NOTES

week

1. The Contractor shall install erosion/sedimentation controls and tree protective fencing prior to any site preparation work (clearing, grubbing or excavation).

- 2. The placement of erosion/sedimentation controls shall be in accordance with the PLANS.
- Any significant variation in materials or locations of controls or fences from those shown on the approved plans must be approved by the City Engineer.

4. The Contractor is required to inspect all controls and fences at weekly intervals and after significant rainfall events to insure that they are 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 removed when the depth reaches six (6) inches

5. Prior to final acceptance, haul roads and waterway crossings constructed for temporary Contractor access must be removed, accumulated sediment removed from the waterway, and the area restored to the original grade and revegetated. All land clearing debris shall be disposed of in approved spoil disposal sites.

6. Field revisions to the EROSION & SEDIMENTATION CONTROL PLANS may be required by the Engineer or field inspector with the Texas Commission on Environmental Quality (TCEQ) during the course of construction to correct control inadequacies. Major revisions must be approved by the TCEQ.



- During construction, no materials including but not limited to excess soil, vehicles, equipment, liquids, trash, or construction debris may be placed inside of the tree protection fence, nor shall the tree protection fence be altered in any way so as to increase the encroachment of the construction.
- Excavation, grading, soil deposit, impervious covering, drainage and leveling within the CRZ of Heritage Trees is prohibited unless approved by the Urban Forester. Any impervious cover proposed within the CRZ of a Heritage Tree will be reviewed on a case by case basis by the Urban Forester upon field inspections and or plan reviews. In any case, generally no more than 50% of the CRZ of any Heritage Tree can be covered with impervious cover. Any protective fencing being used around Heritage Trees may only be reduced while impervious cover activity is being done. The remainder of the protective fencing must stay intact for the duration of the project.
- 4. Disposal or depositing of oil, gasoline, chemicals, paints, solvents or other materials is prohibited within the CRZ of Heritage Trees.
- 5. The attachment of wires, signs and ropes to any Heritage Tree is prohibited.
- 6. The location of utility service and irrigation lines inside the CRZ of Heritage Trees is only allowed when approved by the Urban Forester. If boring is used to provide underground utility access, the minimum length of the bore shall be the width of the tree's mature canopy. The minimum depth of the bore shall be specified by the Urban Forester, but in no event be less than 24" below the natural grade existing prior to any development activity within the CRZ..
- 7. Soil disturbance or other injurious and detrimental activity within the CRZ of Heritage Trees is prohibited. 8. At applicant's expense, an ISA Certified Arborist or their employee(s) shall be present whenever activities occur which will pose a potential threat to the health of the Heritage Tree such as pruning, or whenever any work needs to be done within the CRZ of such tree.
- 9. Should the area within the CRZ become compacted during excavation or grading, the affected area shall 3. be aerated. The Urban Forester shall be notified whenever any Damage or injury occurs to a Heritage Tree during construction so that proper treatment may be administered. 10. The Urban Forester shall be notified whenever any Damage or injury occurs to a Heritage Tree during
- construction so that proper treatment may be administered. 11. Contact the City of Georgetown's Urban Forester (512-930-6113) when tree protection is installed and prior to any fencing being removed.

CITY OF GEORGETOWN GENERAL NOTES

- 1. These Construction plans were prepared, sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore based on the engineer's concurrence of compliance, the construction plans for construction of the proposed project are hereby approved subject to the standard Construction Specifications and Details Manual and all other applicable City, State, and Federal Requirements and Codes.
- 2. This project is subject to all City Standard Specifications and Details in effect at the time of submittal of the project to the City.
- 3. The site construction plans shall meet all requirements of the approved site plan.
- 4. Wastewater mains and service lines shall be SDR-26 PVC.
- 5. Wastewater mains shall be installed without horizontal or vertical bends.
- 6. Maximum distance between wastewater manholes is 500 feet.
- 7. Wastewater mains shall be low pressure air tested and mandrel tested by the contractor according to City of Georgetown and TCEQ requirements.
- 8. Wastewater manholes shall be vacuum tested and coated by the contractor according to City of Georgetown and TCEQ requirements.
- 9. Wastewater mains shall be camera tested by the contractor and submitted to the City on DVD format prior to paving the streets.
- 10. Private water system fire lines shall be tested by the contractor to 200 psi for 2 hours.
- 11. Private water system fire lines shall be ductile iron piping from the water main to the building sprinkler system, and 200 psi C900 DR-18 PVC for all others.
- 12. Public water system mains shall be 150 psi C900 DR-18 PVC and tested by the contractor at 150 psi for 4 hours.
- 13. All bends and changes in direction on water mains shall be restrained and thrust blocked.
- 14. Fire hydrant leads shall be restrained.
- 15. All water lines are to be bacteria tested by the contractor according to the City standards and specifications.
- 16. Water and Sewer main crossings shall meet all requirements of the TCEQ and the City.
- 17. Flexible base material for public streets shall be TXDOT Type A Grade 1.
- 18. Hot mix asphaltic concrete pavement shall be Type D unless otherwise specified and shall be a minimum of 2 inches thick on public streets and roadways.
- 19. All sidewalk ramps are to be installed with the public infrastructure.
- 20. A maintenance bond is required to be submitted to the City prior to acceptance of the public improvements. This bond shall be established for 2 years in the amount of 10% of the cost of the public improvements and shall follow the City format.
- 21. Record drawings of the public improvements shall be submitted to the City by the design engineer prior to acceptance of the project. These drawings shall be submitted on a flash drive or emailed through a cloud source.
- 22. Prior to the start of construction, the City shall be provided with a WPAP approval letter, WPAP recordation receipt, NOI, approved SWPPP, and contact information of the compliance inspector.
- 23. During construction, all compliance inspections and resolutions shall be copied to the City inspector upon receipt.
- 24. At the completion of construction, Engineer's letter of concurrence and Notice of Termination shall be provided.
- 25. Prior to construction above the slab, Contractor to provide an all-weather drive surface of asphalt, concrete, or chip seal placed onto base material engineered to withstand 75,000 lbs. An acceptance inspection by Fire Inspections is required. 2012 IFC 503 and D102.1.



ADDRESS 1978 S. AUSTIN AVENUE GEORGETOWN, TX 78626 TEXAS REGISTERED ENGINEERING FIRM F-181 TBPLS FIRM No.10003700 STEGERBIZZELL.COM 512,930,9412 SERVICES >>ENGINEERS >>PLANNERS >>SURVEYORS

STEGER
BIZZELL

11.

Texas Commission on Environmental Quality Water Pollution Abatement Plan General Construction Notes

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include: - the name of the approved project;

- the activity start date; and - the contact information of the prime contractor.

- All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
- If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.
- No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
- Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
- Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features,
- 7. Sediment must be removed from the sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.
- Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
- All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
- 10. If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.
 - The following records shall be maintained and made available to the TCEQ upon request:
 - 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.
- 12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
 - A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - any change in the nature or character of the regulated activity from that which was Β. originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

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

TCEQ-0592 (Rev. July 15, 2015)

Page 2 of 2

2023-21-SD

Project No

22868

SHEET

WILLIAMS SENIOR LIVING 4775 WILLIAMS DRIVE WILLIAMSON COUNTY, TEXAS

GENERAL NOTES

for



×

2023-7-7

DAVID L. PLATI

	NO.	REVISION	BY	DATE		
WARNING! There are existing water pipelines, underground telephone cables and other above and below ground utilities in the vicinity of this project. The Contractor shall contact all appropriate companies prior to any construction in the area and determine if					DLP DESIGNED BY: AMK DRAWN BY:	DATE
any conflicts exist. If so, the Contractor shall immediately contact the Engineer who shall revise the design as necessary.					CHECKED BY:	DATE
					APPROVED BY:	DATE



	WESTINGHOUSE ROAD, LOCATED APPROXIMATELY 8 FEET			5. North 00 degrees 44 minutes 41 seconds West, a distance of 128.06 feet to a metal fence post;
	NORTHWESTERLY FROM THE SOUTH RIGHT-OF-WAY LINE OF	(NOTARY PUBLIC'S SIGNATURE) PRINT NAME	R = Removal of Protected Tree C = Credit Tree	
	NORTHEASTERLY FROM THE INTERSECTION OF WESTINGHOUSE ROAD	NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS	R-HT = Removal of Heritage Tree χ = Prohibited Species (must	o. North 89 degrees 50 minutes 24 seconds West, a distance of 07.02 reet to a metal rence post;
	AND VISTA VIEW DRIVE. BENCHMARK ELEVATION = 906.55' (NAVD'88).			7. North 89 degrees 15 minutes 52 seconds West, a distance of 106.72 feet to a 5/8-inch
, ,	10. AREAS SHOWN IN SOUARE FEET ARE ±	MY COMMISSION EXPIRES ON:		iron rod set with cap stamped "GBI Partners" for a corner point on the northwesterly
~	11. A 15-FOOT PUBLIC UTILITY EASEMENT IS REQUIRED ALONG MAJOR			line of said 14.518 acre tract, said iron rod being the most northerly northwest corner of
	ARTERIALS AND A 10-FOOT PUBLIC UTILITY EASEMENT IS REQUIRED	ENGINEER'S CERTIFICATION:	BEING A 9.292 ACRE TRACT OF LAND LOCATED IN THE JOSEPH FISH SURVEY NO. 180, ABSTRACT	said 0.408 acre tract, also being on the southeasterly line of 1 he Reserve at Heritage Oabs Georgetowin a subdivision as recorded in Document Number 2012000556
-	ALONG LOCAL STREETS. 13 ALI SEDIMANTATION FILTPATION DETENTION AND/OP BETENTION	I, MICHAEL EASTON MUNDINE, LICENSED PROFESSIONAL ENGINEER IN THE STATE	234, WILLIAMSON COUNTY, TEXAS, SAID 9.292 ACRE TRACT BEING THE REMAINING PORTION OF THAT CALLED 9.56 ACRE TBACT OF LAND CONVEVED TO VENNETU SLASS BY REED	Oaks Ocolgenwil, a suburyishoil as recorded in Document runnor 2012075550, O.P.R.W.C.:
	BASINS AND RELATED APPURTENANCES SHOWN SHALL BE SITUATED	OF TEXAS, DO HEREBY CERTIFY THAT THIS SUBDIVISION IS IN THE EDWARDS	RECORDED IN VOLUME 592, PAGES 772-778, DEED RECORDS, WILLIAMSON COUNTY, TEXAS.	
	WITHIN A DRAINAGE EASEMENT OR DRAINAGE LOT. THE OWNERS,	AQUIFER RECHARGE ZONE AND IS NOT ENCROACHED BY A ZONE A FLOOD AREA, AS DENOTED HEDEIN AND AS DEFINED BY EEDEDAL EMEDGENCY MANAGEMENT	SAID 9.292 OF ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND	Thence, with the common line between said 14.518 acre tract and said The Reserve at
	HOA, OR ASSIGNEES OF THE TRACTS UPON WHICH ARE LOCATED	ADMINISTRATION FLOOD HAZARD BOUNDARY MAP. COMMUNITY PANEL NUMBER	BOUNDS AS FOLLOWS:	Heritage Oaks Georgetown subdivision, the following two (2) courses and distances;
	SUCH EASEMENTS, APPURTENANCES, AND DETENTION FACILITIES SHALL MAINTAIN SAME AND BE DESDONSIBLE FOD THEID	48491C0280E, EFFECTIVE DATE SEPTEMBER 26, 2008, AND THAT EACH LOT		
	MAINTENANCE, ROUTINE INSPECTION, AND UPKEEP.	CONFORMS TO THE CITY OF GEORGETOWN REGULATIONS.	BEGINNING at a 2° repar found in the northeast right-of-way line of R.M. 2338, at the west	1. North 4/ degrees 06 minutes 29 seconds East, a distance of 148.48 feet to a capped iron rod found dominal (Connect Convertion DDF C 1987).
	13. THE LANDOWNER ASSUMES ALL RISKS ASSOCIATED WITH	THE FULLY DEVELOPED, CONCENTRATED STORMWATER RUNOFF RESULTING FROM	24.784 acre tract recorded in Document No. 2003032555. Official Records. Williamson County.	IOUIDU SIGILIPEU (L'ULLESI DULVEYILIE AL LO 1001),
	IMPROVEMENTS LOCATED IN THE RIGHT-OF-WAY, OR ROAD WIDENING	THE ONE HONDRED (100) YEAR FREQUENCY STORM IS CONTAINED WITHIN THE DRAINAGE EASEMENTS SHOWN AND/OP PUBLIC PICHTS OF WAY DEDICATED BY	Texas;	2. North 58 degrees 59 minutes 28 seconds East, a distance of 736.32 feet to a capped iron rod
	EASEMENTS. BT FLACING ANTITING IN THE RIGHT-OF-WAT OK ROAD WITHING FASEMENTS THE LANDOWNER INDEMNIFIES AND HOLDS	UNAINAGE EAGEMENTO OFTOWN ANUTON FUBLIC NIGHTO-OF-WAT DEDICATED DI THIS PLAT		found stamped (Forrest Surveying RPLS 1887) for the northerly corner of said 14.518 acre
	THE CITY OF GEORGETOWN. WILLIAMSON COUNTY. THEIR OFFICERS.		(1) Thence, departing the northeast right-of-way line of R.M. 2338 with the southeast line	tract, said iron rod being on the southwesterly line of Heritage Oaks Georgetown, Section 5, a
	AGENTS AND EMPLOYEES HARMLESS FROM ANY LIABILITY OWING TO	TO CEPTIEV MILICH MITNESS BV MV HANID AND SEAL AT THE CITV OF	of the remaining portion of said 14.784 acre tract, the northwest line of the remaining	subdivision as recorded in Document Number 2010060145, O.P.K.W.C.;
	PROPERTY DEFECTS OR NEGLIGENCE NOT ATTRIBUTABLE TO THEM	CEORCETOWN WILLIAMSON COLINITY TEYAS THIS DEAL ALL VILLE OF OF	portuoli of said 3.50 acre tract, N 45 05 41 E, a distance of 1.145.04 feet to a 27 febar found for the correction of the remaining continue of and 1.4 794 and the second	Thance with the northeasterly line of said 14.518 are tract and the conthuesterly line of said
	AND ACKNOWLEDGES THAT THE IMPROVEMENTS MAY BE REMOVED		round for the cast corner of the remaining portion of said 14.764 acre tract, the horth corner of the remaining northou of said 0.55 new tract holing the most neuroport of the	Heritage Oaks Georgetown Section 5 subdivision South 21 degrees 31 minutes 48 seconds Fast a
	BY THE CITY AND/OK COUNTY AND THAT THE OWNER OF THE	, 2022.	beneficial of the relitation polation of sale viso acte tract, being the north corrier of the beneficial have have been described fract sold point is located in a southwast line of Unitional Only. Southast	distance of 449.80 feet to a 1/2-inch iron rod in concrete found for the easterly corner of said 14.518
	IMPROVEMENTS WILL BE RESPONSIBLE FOR THE RELOCATION AND/OR DEDI ACEMENT OF THE IMPDOV/EMENTS		ite ani uesuribed utau, satu puntuis jotated ili a souuriwest lifte of frentage Oaks, Section 5. recorded in rahinat GG, on Slidec 327-329. Plat Bacorde, Milliameon County, Tovoe	acre tract said iron rod being the northerly corner of aforesaid 9.290 acre tract:
Ŧ	A THE RITION OF ALL STREETS POADS AND OTHER DURING		of recorded in control CC, or direct act act act need to, the median withing the start action of the start action act	
	THOROLIGHEARES AND ANY RRIDGES OR CLILVERTS NECESSARY TO		(2) Thence, with the courthwest line of caid Haritage Oaks Section 5 the northeast line of	Thence , with the common line between said 14.518 acre tract and said 9.290 acre tract. South 48
	BE CONSTRUCTED OR PLACED IS THE RESPONSIBILITY OF THE	MICHAEL EASTON MUNDINE	the remaining portion of said 9.56 acre tract. S 22°15'50" E. a distance of 389.10 feet. (S	degrees 09 minutes 15 seconds West, a distance of 1,146.05 feet to the Point of Beginning and
	OWNERS OF THE TRACT OF LAND COVERED BY THIS PLAT IN	LICENSED PROFESSIONAL ENGINEER	19° E, 389.7 feet, record), to a ½" rebar found at the north corner of HEK Business Park.	containing 14.516 acres of land.
	ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PRESCRIBED BY		Lot 1, Block A, recorded in Cabinet X, on Slides 335-336, Document No. 2003067241,	
	THE CITY OF GEORGETOWN AND/OR WILLIAMSON COUNTY, TEXAS.		Plat Records, Williamson County, Texas, said point being the east corner of the herein	
	NEITHER THE CITY OF GEORGETOWN NOR WILLIAMSON COUNTY		described tract;	
	ASSUMES ANY OBLIGATION TO BUILD ANY OF THE STREETS, KOADS,			
	OK UTHEK PUBLIC THOROUGHFARES SHOWN ON THIS FLAT OR OF CONSTRUCTING ANY OF THE BRIDGES OF DEALINGE IMPROVEMENTS	SURVETORS CERTIFICATION	(3) Thence, S 58°42'20" W, along the southeast boundary line of the remaining portion of	
	CUNSTRUCTING ANT UF THE BRIDGES OR DRAINAGE IMPROVEMENTS	I, ALAN HORTON, REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF	said 9.56 acre tract, the northwest boundary line of said HEK Business Park, Lot $\mathbf{1, S}$	
	IN CUNNECTION THEREWITH. NEITHER THE CITY OF GEORGETOWN NOD MULLIAMSON COTINEY ASSIINES ANY DESDONSIBILIEY FOD	TEXAS, DO HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECTLY MADE	46°52'31" W, a distance of 1001.52 feet, (S 49°37' W, record), to a cotton spindle found	
	DRAINAGE WAYS OR FASEMENTS IN THE SLIPPIVISION OTHER THAN	FROM AN ACTUAL SURVEY MADE ON THE GROUND OF THE PROPERTY LEGALLY	in the northeast right-of-way line R.M. 2338, for the west corner of said HEK Business	
	THOSE DRAINING OR PROTECTING THE ROAD SYSTEM AND STREETS	UESCRIBEU HEREON, AND THAT THE CURNER MONUMENTS SHOWN THEREON	Park, Lot 1, point being the south corner of the herein described tract;	
	IN THEIR RESPECTIVE JURISDICTIONS.	VVERE PROPERTI PLACEU UNUER MI SUPERVISION IN AUCURUANCE VILLA LAS SLIRDIVISION REGIII ATIONS OF THE CITY OF GEORGETOWN TEXAS		
~	15. THE MAXIMUM IMPERVIOUS COVERAGE PER NON-RESIDENTIAL LOT IS		(4) Thence, with the northeast right-of-way line R.M. 2338 along a curve to the left whose	
	SHOWN ON PAGE 1 OF THIS PLAT. ADDITIONAL IMPERVIOUS COVER		radius is 5751.37 feet, whose central angle is 00°58'23", with an arc length of 97.68 feet,	SHEET 2 OF 2
	MAY BE OBTAINED DURING THE SITE PLAN PROCESS ACCORDING TO		and whose chord bears N 43'41'11'' W, a distance 97.68 teet (Radius = 5/51.37, Length = 97.85 feet record). In a 1/" rahar with a TVDOT Aluminum can found at the noise of	
	UDC 11.02.020. 16 ANY HERITAGE TREE AS NOTED ON THIS PLAT IS SUBJECT IN	WILLIAMSON COUNTY, LEXAS, THISDAY OF	tangency; toosup, to a zeroe with a tabol multimum tap round at the pullit-ol- tangency;	ENGINEER IN.
	PERPETUITY. TO THE MAINTENANCE. CARE, PRUNING AND REMOVAL	2022.	~	2P CONSULTANTS, LLC
	REQUIREMENTS OF THE CITY OF GEORGETOWN. APPROVED		(5) Thence, continuing with the northeast right-of-way line R.M. 2338, being the southwest	203 E. MAIN STREET, SUITE 204
	REMOVAL DOES NOT REQUIRE MODIFICATION OF THE PLAT.		property line of the herein described tract, N 44°03'12" W, a distance of 291.35 feet (N	DOINN DUCK TEVAS 7966A
~~	17. ALL INDIVIDUAL LOTS CONTAINING HERITAGE TREES ARE	AI AN HORTON	44°05'00" W, 291.31 feet. record), to the POINT OF BEGINNING containing 9.292 acres	
	CONFIGURED AND DESIGNED SO THAT THE LOT IS DEVELOPABLE FOR		of land, more or less.	+006+++-C-71C
	HE INTENDED PURPOSE WITHOUT REQUIRING REMOVAL OF THE HEDITAGE TDEEPS OD EVCEEDING THE DEDGENTAGE OF ALLOWADLE			TBPE FIRM #F-19351
	DISTLIRBANCE WITHIN THE HERITAGE TREES CR7	NU. 5/66 STATE UP LEXAS		CONSILLING
				. 107.
N:\Pro	rojects\Wilkes - 4795 Williams Drive\CAD\Prelim Plat\Prelim-Plat.dwg			

PLAT

for WILLIAMS SENIOR LIVING 4775 WILLIAMS DRIVE WILLIAMSON COUNTY, TEXAS SHEET **03** of 34

2023-21-SDF

Project No: 22868





- 4. Sediment dewatering bag is located as shown.

- 7. Inspect the flow conditions, bag condition, bag capacity and secondary effectively.
- 8. Replace the bag when it no longer filters sediment or passes water at a reasonable rate. The bag is disposed of offsite.

TYPE OF STRUCTURE	REACH LENGTH
SILT FENCE	N/A
	200 FEET
	100 FEET
	50 FEET
TRIANGLE FILTER DIKE	100 FEET
	50 FEET
ROCK BERM *, **	500 FEET

responsibility for appropriate







THESE CONSTRUCTION PLANS HAVE BEEN PREPARED TO FULFILL THE REQUIREMENTS FOR THE TCEQ FOR WATER POLLUTION ABATEMENT OVER THE EDWARDS AQUIFER. CONTRACTOR SHALL CONTACT THE ENGINEER FOR ADDITIONAL DETAILED CONSTRUCTION PLANS PRIOR TO CONSTRUCTION.

P		NO.	REVISION	BY	DATE		
Ę	WARNING! There are existing water pipelines, underground telephone					DESIGNED BY:	DAT
	cables and other above and below ground utilities in the vicinity of this project. The Contractor shall contact all appropriate						
ł	companies prior to any construction in the area and determine if any conflicts exist. If so, the Contractor shall immediately contact the Engineer who shall revise the design as necessary.						
Ł						CHECKED BY:	DAT
						APPROVED BY:	DAT



EROSION & SEDIMENTATION CONTROL DETAILS

for WILLIAMS SENIOR LIVING 4775 WILLIAMS DRIVE WILLIAMSON COUNTY, TEXAS



2023-21-SD

Project No

22868



DAVID L. PLATT		S	TEGER	BIZZE	ELL
CENSED		ADDRESS 1978	S. AUSTIN AVENUE	GEORGETOWN,	TX 78626
STONAL EL CON	METRO	512.930.9412	TEXAS REGISTERED EN TBPLS FIRM No	GINEERING FIRM F-181 .10003700	WEB STEGERBIZZELL.COM
2023-7-7		SERVICES	>>ENGINEERS >>PLAI	NNERS >>SURVEYOR	RS

	Shallow Cor	ncentrated	- Paved				Chann	el/Storm [Drain		Та	tal
]	Elev-Stop [ft]	L[ft]	s [ft/ft]	Tt-SCFp [min]	L [ft]	Q [cfs]	A [ft^2]	Wp [ft]	V [ft/s]	Tt-channel [min]	Tc [min]	Tlag [min]
2	000	0	0 000	0.00	0	0	0	0	Ц	0.00	25.67	15 //

		Select R	CN from Table 2	-7 of DCM						
			Range	Lawn						
			(Fair)	(Good)						
98	91	87	80	80	89	78				
	IC-3 [s.f.]	IC-4 [s.f.]	PC-1[s.f.]	PC-2 [s.f.]	PC-3 [s.f.]	PC-4 [s.f.]	Total IC [s.f.]	Total IC %	% Check	Composite RCN
4,095	7,469	0	393,544	0	0	0	11563.8211	2.85%	ОК	80.4

		Select R	CN from Table 2	-7 of DCM						
			Range (Fair)	Lawn (Good)						
98	91	87	80	80	89	78				
	IC-3 [s.f.]	IC-4[s.f.]	PC-1[s.f.]	PC-2 [s.f.]	PC-3 [s.f.]	PC-4 [s.f.]	Total IC [s.f.]	Total IC %	% Check	Composite RCN
1,095	7,469	0	393,544	0	0	0	11563.8211	2.85%	ОК	80.4

	F	Project: Novak S	Sr Living 3	Simulation Run	n; EX 2-	YR SCS		
Show Elements:	Start of Run; End of Run; Compute Time All Elements	09Apr2020, 00 10Apr2020, 00 130Jun2023, 09	0:00 0:00 9:08:06 /olume Unit	Basin Model: Meteorologic N Control Specifi s: O IN () A	1odel: cations CRE-FT	Existing CoA SCS 2 Yr 2 ::24 HR S	:4 Hr Gorting:	Hydrologic 🗸
	1 0-1	nade Area	Dealst	-		(n. 1	1	Veluese
Hydrologic Element	Ura	(MI2)	Peak L	OFS)	ann	ie of Peak		(IN)

	F	Project: Novak Si	r Living 3	Simulation Run: EX 1	0-YR SCS	
Show Elements:	Start of Run: End of Run: Compute Time	09Apr2020,00 10Apr2020,00 :30Jun2023,09):00):00):09:56 /olume Unit	Basin Model: Meteorologic Model: Control Specification:	Existing CoA SCS 10 Yr 2 s:24 HR T Sc	4Hr
Hydrologic	Dra	inage Area	Peak [Discharge Ti	me of Peak	Volume
Element		(MI2)	(CFS)		(IN)

 Start of Run:
 09Apr2020,00:00
 Basin Model:
 Existing

 End of Run:
 10Apr2020,00:00
 Meteorologic Model:
 CoA SCS 25 Yr 24 Hr

 Compute Time:
 30Jun2023,09:10:57
 Control Specifications:24 HR

Show Elements: All Elements Volume Units: O IN O ACRE-FT Sorting: Hydrologic V

Hydrologic	Drainage Area	Peak Discharge	Time of Peak	Volume
Element	(MI2)	(CFS)		(IN)
BASIN A	0.014531	36.4	09Apr2020, 12:17	5.38

	F	Project: Novak S	r Living 3	Simulation Run: EX	100-YR SCS		
	Start of Run: End of Run: Compute Time	09Apr2020, 00 10Apr2020, 00 :30Jun2023, 09):00):00 9:11:31	Basin Model: Meteorologic Model Control Specificatio	Existing : CoA SCS 100 \ ns:24 HR	Yr 24 Hr	
Show Elements:	All Elements		Volume Un	its: 🗿 IN 🔿 ACRE	-FT	Sorting:	Hydrologic 🗸
Hydrologia	: Dra	ainage Area	Peak	Discharge	Time of Peak		Volume
Element		hurs	1.	(0.0)			(TIA)

	Storm Frequency Peak Flow [cfs]					
Basin	2 Year	100 Year				
Existing Basin A	11.3	27	36.4	52.1		
Proposed Basin A	21.6	40.1	50.8	68.4		
Delta	10.3	13.1	14.4	16.3		
Detention	11.3	26.4	35.6	51		
Delta	0	-0.6	-0.8	-1.1		

EXISTING DRAINAGE MAP

for WILLIAMS SENIOR LIVING 4775 WILLIAMS DRIVE WILLIAMSON COUNTY, TEXAS

2023-21-SDF

Project No: 22868

Start of	Run: 09Apr 2020, 00:00	Basin M	Nodel: Prop	osed
End of F	Run: 10Apr 2020, 00:00	Meteor	ologic Model: CoA	SCS 2 Yr 24 Hr
Comput	e Time:DATA CHANGED, F	RECOMPUTE Contro	I Specifications:24 H	R
Show Elements: All El	ements v		ACREMI	Sorting: Hydrologic V
Hydrologic	Drainage Area	Peak Discharge	Time of Peak	Sorting: Hydrologic Volume
Element	(MI2)	(CFS)		(IN)
Hydrologic	Drainage Area	Peak Discharge	Time of Peak	Sorting: Hydrologic Volume
Element	(MI2)	(CFS)		(IN)
BASIN A	0.013359	21,6		09 2.98

	Р	r <mark>o</mark> ject: Novak Sr	Living 3	Simulation Run: PR	10-YR SCS	
	Start of Run: End of Run: Compute Time	09Apr2020, 00 10Apr2020, 00 :30Jun2023, 09	:00 :00 :09:56	Basin Model: Meteorologic Model Control Specificatio	Proposed CoA SCS 10 Yr : ns:24 HR	24Hr
Show Elements:	All Elements 🗸	V	olume Units		FT S	Sorting: Hydrologic <
Show Elements: Hydrologic Element	All Elements 🗸 Drai	inage Area (MI2)	/olume Units Peak D (C	ischarge	FT S	Sorting: Hydrologic Volume (IN)
Show Elements: Hydrologic Element BASIN A	All Elements V	inage Area (MI2) .013359	/olume Units Peak D (C	ischarge FS)	FT S	Sorting: Hydrologic Volume (IN) 5,59

	F	Project: Novak Sr Living 3		Simulation Run: PR	25-YR SCS		
	Start of Run: End of Run: Compute Time	09Apr2020, 0 10Apr2020, 0 :30Jun2023, 0	00:00 00:00 09:10:57	Basin Model: Meteorologic Model Control Specification	Proposed : CoA SCS 25 Yr ns:24 HR	24 Hr	
Show Elements:	All Elements 🕔	al l	Volume Un	its: 🗿 🖪 🔿 ACRE-	FT	Sorting:	Hydrologic
Hydrologic	Dra	iinage Area	Peak	Discharge 1	Time of Peak	1	Volume

Element	(MI2)	(CFS)	Time of Peak	(IN)
BASIN A	0.013359	50.8	09Apr2020, 12:08	7.11
Detention	0.013359	35.6	09Apr2020, 12:16	7.00

	F Start of Run: End of Run: Compute Time	Project: Novak Sr 09Apr2020, 00 10Apr2020, 00 ::30Jun2023, 09	Living 3 :00 :00 :11:31	Simulation Ru Basin Model: Meteorologic Control Speci	n: PR 100-YR SCS Proposed Model: CoA SCS 100 \ fications:24 HR	(r 24 Hr
Show Elements:	All Elements	e l	Volume Un	its: ON 🔿	ACRE-FT	Sorting; Hydrolog
Hydrologic Element	Dra	ainage Area (MI2)	Peak	Discharge (CFS)	Time of Peak	Volume (IN)
BASIN A		0.013359		68.4	09Apr2020, 12:08	9.65
Detention		0.013359		51.0	09Apr2020, 12:15	9.52

		Storm Frequency						
	Peak Flow [cfs]							
Basin	2 Year	10 Year	25 Year	100 Year				
Existing Basin A	11.3	27	36.4	52.1				
Proposed Basin A	21.6	40.1	50.8	68.4				
Delta	10.3	13.1	14.4	16.3				
Detention	11.3	26.4	35.6	51				
Delta	0	-0.6	-0.8	-1.1				

DEVELOPED DRAINAGE MAP

for WILLIAMS SENIOR LIVING 4775 WILLIAMS DRIVE WILLIAMSON COUNTY, TEXAS

2023-21-SDF

Project No: 22868

TSS Pamar	al Calculations M-20-2000			Drojo <i>c</i> t Names	Novak Sr. L	ving		
JJ REIIIOV	ar varculauviis v#=20=2003			Date Prepared:	3/31/2023	viig		
Additional in Fext shown in	Iformation is provided for cells with a red triang	le in the up al Guidance M	per right c Manual - R(orner. Place the	cursor over 1	he cell.		
Characters	shown in red are data entry fields.			5-540.				
Characters s	shown in black (Bold) are calculated fields. Cha	anges to the	ese fields v	will remove the e	quations use	d in the	spreadshee	et.
. The Require	d Load Reduction for the total project:	Calculations fr	om RG-348		Pages 3-27 to 3	-30		
	Page 3-29 Equation 3.3: $L_M =$	27.2(A _N x P)						
where:	L _{M TOTAL PROJECT} =	Required TSS	removal resu	lting from the propose	d development =	80% of in	creased load	
	A _N =	Net increase in Average annua	n impervious al precipitatio	area for the project				
Olta Datas	Determine Demined Lond Demond Decod on the Entire Droie	-1						
Site Data:	Determine Required Load Removal Based on the Entire Project County =	Williamson	•					
Pi	Total project area included in plan * = redevelopment impervious area within the limits of the plan * =	8.55 0.28	acres					
Total pos	st-development impervious area within the limits of the plan* =	4.78	acres					
	P =	0.56 32	inches					
			Uh a					
The values e	= LM TOTAL PROJECT Intered in these fields should be for the total project area	3917	IDS.					
vulues c								
Num	nber of drainage basins / outfalls areas leaving the plan area =	1						
. Drainage Ba	sin Parameters (This information should be provided for	each basin):						
	Drainage Basin/Outfall Area No. =	A	•					
	Total drainade basin/outfall area =	8.55	acres					
Predev	velopment impervious area within drainage basin/outfall area =	0.09	acres					
Post-dev Post-develo	ppment impervious area within drainage basin/outfall area =	4.78 0.56	acres					
	L _{M THIS BASIN} =	4082	lbs.		4342	AT 85%	REMOVAL	
. Indicate the	proposed BMP Code for this basin.							
	Proposed BMP =	Batch Detent	lon					
	Removal efficiency =	91	percent		Aqualogic Cartri	dae Filter		
					Bioretention	uge i niter		
					Contech StormF Constructed We	ilter tland		
					Extended Deten	tion		
					Retention / Irriga	ition		
					Sand Filter Stormceptor			
					Vegetated Filter	Strips		
					Wet Basin			
. Calculate Ma	aximum TSS Load Removed (L _R) for this Drainage Basin	by the selecte	ed BMP_Typ	<u>e.</u>	vvet Vault			
	PC 348 Page 3 33 Equation 3 7: 1			x 34 6 ± 4 - x 0 54)				
	NG-546 Page 5-55 Equation 5.7. ER -		/y) X F X (A)	x 34.0 + Ap x 0.34)				
where:	A _C =	Total On-Site	drainage area	in the BMP catchme	nt area			
	A _I = A _P =	Pervious area	remaining in	the BMP catchment a	irea			
	L _R =	TSS Load rem	oved from thi	s catchment area by t	he proposed BM	P		
	A _C =	8.55	acres	Basin area				
	A ₁ =	4.78	acres					
	A _P =	3.77	acres					
	L _R =	48/3	IDS					
. Calculate Fr	action of Annual Runoff to Treat the drainage basin / out	tfall area	•					
	Desired L _{M THIS BASIN} =	4342	lbs.					
	-	0.00						
	F =	50.0						
. Calculate Ca	apture Volume required by the BMP Type for this drainac	ge basin / outf	all area.	Calculations from RG	-348	Pages 3-	34 to 3-36	
	Rainfall Denth =	1.60	inches					
	Post Development Runoff Coefficient =	0.39	aubie 6					
	On-site Water Quality Volume =	19489	CUDIC feet					
		Calculations fr	om RG_348	Pages 3-36 to 3-37				
				. 4900 0-00 10 0-07				
	Off-site area draining to BMP = Off-site Impervious cover draining to BMP =	0.00	acres acres					
	Impervious fraction of off-site area =	0	•					
	Off-site Runon Coemcient = Off-site Water Quality Volume =	0	cubic feet					
	Storage for Sediment -	3898						

	NO.	REVISION	BY	DATE		
WARNING! There are existing water pipelines, underground telephone					DLP DESIGNED BY:	DAT
cables and other above and below ground utilities in the vicinity of this project. The Contractor shall contact all appropriate companies prior to any construction in the area and determine if					AMK DRAWN BY:	
any conflicts exist. If so, the Contractor shall immediately contact the Engineer who shall revise the design as necessary.						
					CHECKED BY:	DAT
					APPROVED BY:	DAT

Elevation [ft.]	Cumulative Vol. [ac-ft.]	Discharge [cfs]	W.S. Description
879.00	0.0000	0.0	
880.00	0.3354	0.0	
880.45	0.6052	0.0	
881.00	0.9350	4.3	
881.50	1.2446	11.3	2-YR
881.97	1.5356	26.4	
882.00	1.5541	27.7	10-YR
882.18	1.6692	35.6	25-YR
882.49	1.8673	51.0	100-YR
883.00	2.1932	81.3	

Pond Water Surface El	evations (STA	GE-STORAGE	-DISCHARG	iE)			
Elevation [ft.]	Area [s.f.]	Area [ac.]	Depth [ft.]	Incremental Vol. [c.f.]	Cumulative Vol. [c.f.]	Cumulative Vol. [ac-ft.]	Discharge [cfs]
879.00	3528	0.08099	0	0	0	0.0000	0.0
880.00	25694	0.58985	1	14611	14611	0.3354	0.0
880.45	,		0.45	19789	26364	0.6052	0.0
881.00	26540	0.60927	1	26117	40728	0.9350	4.3
881.50	l		0.5	26544	54213	1.2446	11.3
882.00	27401	0.62904	1	26970.5	67698.5	1.5541	27.7
883.00	28274	0.64908	1	27837.5	95536	2,1932	81.3

for WILLIAMS SENIOR LIVING 4775 WILLIAMS DRIVE WILLIAMSON COUNTY, TEXAS 2023-21-SDF Project No: 22868

	NO.	
ABATEMENT OVER THE EDWARDS AQUIFER. CONTRACTOR SHALL CONTACT THE ENGINEER FOR ADDITIONAL DETAILED CONSTRUCTION PLANS PRIOR TO CONSTRUCTION.		
THE REQUIREMENTS FOR THE TOED FOR WATER POLITION		

THESE CONSTRUCTION PLANS HAVE BEEN PREPARED TO FULFILL

CONTROLLER CIRCUIT BOX DIAGRAM

BATCH POND CONTROLLER NOTES:

- 1. Submittals The contractor shall provide the engineer with batch pond controller submittals for review and approval prior to construction. Submittals shall include: power source, battery backup, logic controller, lockable parts enclosure, float, valve, actuator, relay, alarm system, signage, etc. Total wattage of power consumption and w-hours of actuator, controller and relay shall be provided. A copy of the approved submittals shall be provided to TCEQ with the engineers certification of project completion for inclusion in the TCEQ project file .
- 2. Controller The controller consists of a level sensor in the detention basin, a valve (with a default closed position), an actuator, and the associated control. The controller detects water filling the basin from the level sensor and initiates a 12-hour detention time. At the end of the required detention time, the controller opens the valve and drains into the pump vault. Control floats will activate the pump as the vault fills. Subsequent rainfall events that occur prior to the basin draining should cause the valve to remain open and allow the additional stormwater runoff to pass through the basin. Once the basin is drained the controller closes the valve. The drawdown time of the basin should not exceed 48 hours for a single storm event after the 12 hour required detention time. All cables should be protected by conduit and buried to prevent damage during maintenance activities. Information on the design and configuration of an existing system, including the system schematic, can be viewed at the Austin or San Antonio Regional Offices.
- 3. Logic Controller The controller should be programmed to begin draining stormwater runoff from the basin 12 hours after the first stormwater runoff is detected. The system should be programmed to have the valve remain open for two hours after the level sensor indicates the basin is empty to allow any remaining shallow water to be discharged. The system should provide the following: a test sequence, be able to deal with low battery/power outages, an on/off/reset switch, manual open/close switches (maintenance/spill), clearly visible external indicator
- to indicate a cycle is in progress without opening the box, and ability to exercise the valve to prevent seizing. 4. Power - The pond control system controller and actuator shall be 120 volt powered or 120 volt solar powered with backup battery power to respond to a loss of power in the middle of a cycle.
- 5. Parts Enclosure & Alarm System The parts enclosure shall be lockable. An alarm system clearly visible to
- indicate system malfunction, with phone numbers of the owner and TCEQ Region 11 office shall be provided. 6. Temperature/Weather - The system shall be be capable of operation from 0 to 130 degrees Fahrenheit and from 10 to 90% humidity.
- 7. Reliability The system shall have a minimum reliability of 40,000 hours (4.6 years).

<u> </u>	NO.	REVISION	BY	DATE		
WARNING! There are existing water pipelines, underground telephone cables and other above and below ground utilities in the vicinity of this project. The Contractor shall contact all appropriate companies prior to any construction in the area and determine if any conflicted water is to a the Contractor shall immediately.					DLP DESIGNED BY: AMK DRAWN BY:	DATE
contact the Engineer who shall revise the design as necessary.					CHECKED BY:	DATE
					APPROVED BY:	DATE

- 0.5

2.55'

3.05'

100-YR WSE = 882.49

25-YR WSE = 882.18 10-YR WSE = 881.97

2-YR WSE = 881.50

NTS

THESE CONSTRUCTION PLANS HAVE BEEN PREPARED TO FULFILL THE REQUIREMENTS FOR THE TCEQ FOR WATER POLLUTION ABATEMENT OVER THE EDWARDS AQUIFER. CONTRACTOR

DATE	DLP DESIGNED BY:	DATE
	AMK	
	DRAWN BY:	DATE
	CHECKED BY:	DATE
	APPROVED BY:	DATE

STRM-B01 PLAN & PROFILE - STA. 0+00 TO END

2023-21-SDF Project No: 22868

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18" HDPE

@ 2.25%

GRADE -

EXISTING

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: David Platt

Date: 7/24/2023

Signature of Customer/Agent:

Regulated Entity Name: Williams Senior Living

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: _____

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.

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>Berry Creek.</u>

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. X 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:

 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.
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.
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.
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 used in combination with other reosion and sediment controls within each 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 at 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.

Attachment A – Spill Response Actions

Because fuels and hazardous substances will be provided by an off-site facility, no on-site containment procedures are provided for in this WPAP.

The objective of this section is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees. The following steps will help reduce the stormwater impacts of leaks and spills:

Education

- 1. Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.
- 2. Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
- 3. Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- 4. Establish a continuing education program to indoctrinate new employees.
- 5. Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

General Measures

- 1. To the extent that the work can be accomplished safely, spills of oil, petroleum products, and substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- 2. Store hazardous materials and wastes in covered containers and protect from vandalism.
- 3. Place a stockpile of spill cleanup materials where it will be readily accessible.
- 4. Train employees in spill prevention and cleanup.
- 5. Designate responsible individuals to oversee and enforce control measures.
- 6. Spills should be covered and protected from stormwater run-on during rainfall to the extent that it doesn't compromise clean-up activities.
- 7. Do not bury or wash spills with water.
- 8. Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- 9. Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- 10. Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- 11. Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.

12. Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

- 1. Clean up leaks and spills immediately.
- 2. Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- 3. Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills

- 1. Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- 2. Use absorbent materials on small spills rather than hosing down or burying the spill.
- 3. Absorbent materials should be promptly removed and disposed of properly.
- 4. Follow the practice below for a minor spill:
- 5. Contain the spread of the spill.
- 6. Recover spilled materials.
- 7. Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately:

- 1. Contain spread of the spill.
- 2. Notify the project foreman immediately.
- 3. If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
- 4. If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- 5. If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

1. Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.

- 2. For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110, 119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- 3. Notification should first be made by telephone and followed up with a written report.
- 4. The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- 5. Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at: <u>http://www.tceq.texas.gov/response/</u>

Vehicle and Equipment Maintenance

- 1. If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.
- 2. Regularly inspect onsite vehicles and equipment for leaks and repair immediately.
- 3. Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- 4. Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- 5. Place drip pans or absorbent materials under paving equipment when not in use.
- 6. Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- 7. Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- 8. Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
- 9. Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- 1. If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.
- 2. Discourage "topping off" of fuel tanks.
- 3. Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

If a spill should occur, the person responsible for the spill should contact the TCEQ at (512) 339-2929 or call 911. Soil contaminated by spills that occur on-site will be removed and disposed at an approved disposal site.

Attachment B – Potential Sources of Contamination

- Hydraulic and diesel
- Portable toilet systems (Sanitary Waste)
- Trash from construction workers
- Paints, Paint Solvents, glues, concrete and other building materials
- Plant fertilizers and Pesticides
- Inadequate maintenance of temporary water pollution abatement measures
- Stock piles or spoils of materials

Attachment C – Sequence of Major Activities

The following sequence of activities is suggested. The sequence of construction will take place in one phase. The actual sequence may vary slightly depending on the contractor or weather conditions.

- 1. Construction activities will commence with the installation of the required silt fences, inlet protection, and stabilized construction entrance. The total area disturbed by establishing temporary erosion controls is approximately 0.38 acres. Silt fence, inlet protection, and stabilized construction entrance (S.C.E) are the control measures.
- 2. Areas of vegetative cover will be cleared for the proposed driveway approach, parking lot, and building. Spoils of this material may be placed at a location on the project site as directed by the contractor or hauled off-site. These spoils and any other loose granular material will be enclosed by a silt fence. The total area disturbed by construction is approximately 8.55 acres. Silt fence, inlet protection, and S.C.E. are the control measures.
- 3. Grading on the site will consist of the placement and compaction of base or select fill material under and/or around the roads, culverts, and parking. The portion of the site that is subject to grading is approximately 8.55 acres. **Silt fence, inlet protection and S.C.E. are the control measures.**
- 4. Subsequent to the construction of the driveways, parking, etc. disturbed areas will be hydromulched or seeded. Approximately 3.76 acres. Silt fence and inlet protection is the control measure.
- 5. Temporary sediment and erosion controls will be removed after the project is completed.

Attachment D – Temporary Best Management Practices and Measures

The following sequence of activities is suggested. The actual sequence may vary slightly depending on the contractor or weather conditions.

- 1. Construction activities will commence with the installation of the required silt fences and rock berms. Silt fences, rock berms, inlet protection, and a stabilized construction entrance are the control measures.
- 2. Areas of vegetative cover will be cleared for the proposed storage area. Spoils of this material may be placed at a location on the project site as directed by the contractor and approved by the engineer. These spoils and any other loose granular material will be enclosed by a silt fence. The area disturbed by construction is 8.55 acres, representing 100% of the project site. **Silt fences and a stabilized construction entrance are the control measures.**
- 3. Grading on the site will consist of the placement and compaction of road base material or select fill material under and/or around the proposed building and pavement area. The portion of the site that is subject to grading is approximately 8.55 acres. Silt fences, inlet protection, and a stabilized construction entrance are the control measures.
- 4. Grading will be followed by installation of underground utilities as required. Silt fences, inlet protection, and a stabilized construction entrance are the control measures.
- 5. The pavement concrete will be poured at finished grade. Silt fences, inlet protection, and a stabilized construction entrance are the control measures.
- 6. A concrete washout area will be provided as defined on the site plan.
- 7. After the building has been installed, fine grading around the site will be completed. Silt fences, inlet protection, and a stabilized construction entrance are the control measures.
- 8. A security chain link fence will then be installed. **Silt fences, inlet protection, and a stabilized construction entrance are the control measures.**
- 9. Disturbed areas will be hydromulched or seeded. Silt fences and a stabilized construction entrance are the control measures.

Most surface runoff originating upgradient or on site will be contained within the proposed silt fence. The silt fence will trap most pollutants and prevent them from entering off-site surface streams, sensitive features or the aquifer. There is limited off-site runoff as the upgradient runoff is diverted by existing roads with ditches or existing natural drainage channels. The stabilized construction entrance will reduce the amount of sediment leaving the site. The inlet protection will prevent the storm drainage system from getting clogged and reduce the amount of sediment leaving the site. These temporary BMPs will trap most pollutants and prevent them from entering off-site surface streams, sensitive features, or the aquifer.

Attachment E – Request to Temporarily Seal a Feature

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

Attachment F – Structural Practices

No structural practices will be utilized to divert flows away from exposed soils or to store flows. Silt fence and a temporary dewatering bag will be used to limit the runoff discharge of sediments from exposed areas on the site.
<u>Attachment G – Drainage Area Map</u>

Please see Sheets 08 and 09, "Existing Drainage Map" and "Developed Drainage Map," from the "Site Plan" attachment in the "Water Pollution Abatement Plan Application" section.

The maximum common drainage area is 8.55 acres. The entire 8.55 acres of this area will be disturbed.

Attachment I – Inspection and Maintenance for BMPs

Silt Fence

- 1. Inspect all fences weekly and after any rainfall.
- 2. Remove sediment when buildup reaches 6 inches, or install a second line of fencing parallel to the old fence.
- 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.

Stabilized Construction Entrance

- 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. All sediment spilled, dropped, washed or tracked on to public rights-of-way should be removed immediately by contractor.
- 3. All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Curb Inlet Protection

- 1. Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- 2. Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- 3. Check placement of device to prevent gaps between device and curb.
- 4. Inspect filter fabric and patch or replace if torn or missing.
- 5. Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

Concrete Washout

- 1. Inspection should be made weekly and after each rainfall by the responsible party.
- 2. Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt in an approved manner that will not cause any additional siltation.
- 3. The berm/temporary pit should be reshaped as needed during inspection.
- 4. The berm/temporary pit should be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
- 5. The washout should be left in place until construction has been completed.

- 6. 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 Concrete Washout should be revegetated.
- 7. The concrete from the washout should be removed from the site in an appropriate manner. The purpose of concrete washout areas is to prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors.

The following steps will help reduce stormwater pollution from concrete wastes:

- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped onsite, except in designated areas.

For on-site washout:

- Locate washout area 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.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

Construction Staging Area

- 1. Inspection should be made weekly of the staging area to ensure all temporary BMPs are installed and functioning. Verify that any materials stored in the staging area are not exposed to stormwater runoff.
- 2. If the staging area is paved, the area is to be swept on a regular basis to keep dust down.

Temporary Dewatering Bag

- 1. Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.
- 2. Inspect BMPs subject to non-stormwater discharges daily while non-stormwater discharges occur.
- 3. Unit-specific maintenance requirements are included with the description of each technology.
- 4. Sediment removed during the maintenance of a dewatering device may be either spread onsite and stabilized, or disposed of at a disposal site.
- 5. Sediment that is commingled with other pollutants must be disposed of in accordance with all applicable laws and regulations.
- 6. Inspection of the flow conditions, bag condition, bag capacity, and the secondary barrier is required.

7. Replace the bag when it no longer filters sediment or passes water at a reasonable rate. The bag is disposed of offsite.

The following sample forms should be utilized to document the inspection and maintenance of the proposed temporary BMPs as described above. This form shall be kept on site with the WPAP until the project is completed. A report documenting the Temporary BMPs maintenance activities, sediment removal and modifications to the sedimentation and erosion controls is required. Steger Bizzell is responsible for maintaining this log.

Temporary BMP Log

Date	Date of Last Inspection	Inspection Performed By	Title	Company	Status of BMP(s)	Corrective Action Required (if any)	Date Corrective Action Completed

Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Vehicular traffic should be limited to areas of the project site where construction will take place. The contractor should endeavor to preserve existing vegetation as much as practicable to reduce erosion and lower the cost associated with stabilization. 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.

All disturbed areas shall be stabilized as described below.

Except as provided for below, 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.

- A. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or frozen ground conditions, stabilization measures shall be initiated as soon as practicable.
- B. Where construction activity on a portion of the site has temporarily ceased, and earthdisturbing activities will be resumed with 21 days, temporary stabilization measures do not have to be initiated on that portion of the site.
- C. In areas experiencing drought, 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.

Stabilization measures as described as follows:

All disturbed grass areas should be planted in drought resistant species normally grown as permanent lawns, such as Zoysia, Bermuda and Buffalo. Grass areas may be sodded, plugged, sprigged or seeded except that solid sod shall be used in swales or other areas subject to erosion. All planted areas shall be provided with a readily available water supply and watered as necessary to ensure continuous healthy growth and development. Maintenance shall include the replacement of all dead plant material if that material was used to meet the requirements of this section.

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: David Platt

Date: 7/24/2023

Signature of Customer/Agent

Regulated Entity Name: Williams Senior Living

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 pollutio 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 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 a flows across the site, and an explanation is attached. 	n of the site e site re and
7.	Attachment C - BMPs for On-site Stormwater.	
	 A description of the BMPs and measures that will be used to prevent pollutio surface water or groundwater that originates on-site or flows off the site, inc pollution caused by contaminated stormwater runoff from the site is attache Permanent BMPs or measures are not required to prevent pollution of surface or groundwater that originates on-site or flows off the site, including pollutio caused by contaminated stormwater runoff, and an explanation is attached. 	n of luding d. e water n
8.	Attachment D - BMPs for Surface Streams. A description of the BMPs and measu that prevent pollutants from entering surface streams, sensitive features, or the is attached. Each feature identified in the Geologic Assessment as sensitive has be addressed.	ires aquifer been
	N/A	
9.	The applicant understands that to the extent practicable, BMPs and measures mu maintain flow to naturally occurring sensitive features identified in either the geo assessment, executive director review, or during excavation, blasting, or construct	ust plogic ction.
	 The permanent sealing of or diversion of flow from a naturally-occurring sense 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-occurr sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached. 	sitive on rring
10	Attachment F - Construction Plans. All construction plans and design calculation the proposed permanent BMP(s) and measures have been prepared by or under direct supervision of a Texas Licensed Professional Engineer, and are signed, seal dated. The plans are attached and, if applicable include:	s for the ed, and
	 Design calculations (TSS removal calculations) TCEQ construction notes All geologic features All proposed structural BMP(s) plans and specifications 	
	_ N/A	

11. X 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 degradation.

N/A

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

Attachment B – BMPs for Upgradient Stormwater

All upgradient runoff is captured off-site and conveyed through existing ditches and culverts along Williams Drive. No upgradient runoff runs across the project site, and no storm sewer improvements are proposed to capture or divert upgradient runoff. No BMPs are proposed to treat upgradient runoff.

Attachment C – BMPs for On-site Stormwater

Batch detention, as described in the Addendum to TCEQ's "Complying with the Edwards Rules: Technical Guidance Manual on Best Management Practices" Section 3.2.17 (RG-348), will be utilized as the BMP for this development.

A batch detention basin will be used to remove the Total Suspended Solids (TSS) load. Batch detention basins have a TSS removal efficiency of 91% according to the above-referenced manual. For 80% TSS removal, 4,087 pounds of solids must be removed from the site. The City of Georgetown Water Quality Ordinance requires 85% TSS removal when a structural BMP is used. For 85% TSS removal, 4,342 pounds of solids must be removed from the site. The basin has been sized for an 85% TSS removal rate, and the total capture volume is the required water quality volume increased by 20%. The basin's total capture volume must be at least 23,387 cubic feet of runoff. A capture volume of 26,259 cubic feet is being provided.

Runoff will be captured by the proposed storm sewer system and routed toward the permanent BMP. Once the required capture volume is collected, a weir in the batch detention basin will detain and release runoff at or below existing conditions through a level-spreader. After the capture volume is collected in the batch detention basin and held for the required 12-hour detention time, a controller will open a valve and allow the treated runoff to flow off-site.

Calculations to determine the pollutant load and sizing for each BMP are attached directly after this sheet.

Texas Commission on Environmental Quality

Texas Commission on Environm	iental Quality				
TSS Removal Calculations 04-20-2009				Project Name: Nova Date Prepared: 3/	k Sr. Living 31/2023
Additional information is provided Text shown in blue indicate location o Characters shown in red are data e Characters shown in black (Bold) a	for cells with a red triangle of instructions in the Technical entry fields. Ire calculated fields. Chang	in the upper Guidance M es to these	r <mark>ight corne</mark> anual - RG-3 fields will re	r. Place the cursor ov 448. move the equations u	er the cell. sed in the spreadsheet.
1. The Required Load Reduction for the to	otal project:	Calculations fr	om RG-348	Pages	3-27 to 3-30
	Page 3-29 Equation 3.3: L_{M} =	27.2(A _N x P)			
where:	L _{M TOTAL PROJECT} = A _N = P =	Required TSS Net increase i Average annu	removal resulti n impervious ar al precipitation,	ng from the proposed develo ea for the project inches	opment = 80% of increased load
Site Data: Determine Required Load R	emoval Based on the Entire Project	t			
To Predevelopment impervious Total post-development impervious Total post-develop	County = tal project area included in plan * = area within the limits of the plan * = area within the limits of the plan * = pment impervious cover fraction * = P =	Williamson 8.55 0.28 4.78 0.56 32	acres acres acres inches		
* The values entered in these fields shou	L _{M TOTAL PROJECT} = Id be for the total project area.	3917	lbs.		
Number of drainage basins / or	utfalls areas leaving the plan area =	1			
2. Drainage Basin Parameters (This inform	nation should be provided for eac	ch basin):			
ſ	Drainage Basin/Outfall Area No. =	Α			
Predevelopment impervious area Post-development impervious area Post-development impervious fraction	Total drainage basin/outfall area = within drainage basin/outfall area = within drainage basin/outfall area = within drainage basin/outfall area =	8.55 0.09 4.78 0.56 4082	acres acres acres		1342 AT 95% PEMOVAL
3. Indicate the proposed BMP Code for th	is basin.	4002	103.		1012 AT 50% REMOVAL
	Proposed BMP =	Batch Detent	on		
4 Colouiste Maximum TCS and Barraya	Removal efficiency =	91	percent	Aquala Biorete Conter Extence Gracey Retent Storm Vogete Vorteo Wet Bi Wet Vi	gic Cartridge Filter Intion th StormFilter ucted Wetland led Detention 'Swale ion / Irrigation Titler septor ted Filter Strips hs asin ault
4. Calculate Maximum 155 Load Removed	$2(L_R)$ for this Dramage Basin by t		www.p.u.(A.u.2)	10	
RG where:	-348 Page 3-33 Equation 3.7: L _R = A _C = A ₁ = A ₂ = L _R =	(BMP efficient Total On-Site Impervious are Pervious area TSS Load rem	y) x P x (A _I x 34 drainage area in ea proposed in t remaining in th oved from this	4.6 + A _P x 0.54) n the BMP catchment area the BMP catchment area e BMP catchment area catchment area by the propo	used BMP
	A _c =	8.55	acres E	Basin area	
	A ₁ = A _P = L _R =	4.78 3.77 4875	acres acres Ibs		
5. Calculate Fraction of Annual Runoff to	Treat the drainage basin / outfall	area			
	Desired L _{M THIS BASIN} =	4342	lbs.		
	F =	0.89			
6. Calculate Capture Volume required by t	the BMP Type for this drainage ba	asin / outfall a	<u>rea.</u> (Calculations from RG-348	Pages 3-34 to 3-36
Post	Rainfall Depth = Development Runoff Coefficient = On-site Water Quality Volume =	1.60 0.39 19489	inches cubic feet		ATE OF T

DAVID L. PLATT DAVID L. PLATT 115964 SONAL ENGEN 2023-07-25

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 = 3898
Total Capture Volume (required water quality volume(s) x 1.20) = 23387
cubic feet

Attachment D – BMPs for Surface Streams

There are no additional BMPs for minimizing pollutants from entering surface streams. Temporary BMPs have been designed to reduce the potential pollutant load during construction activities.

Attachment F – Construction Plans

Please see the "Site Plan" attachment in the "Water Pollution Abatement Plan Application" section.

Attachment G – Inspection, Maintenance, Repair and Retrofit Plan

The following can be found in the TCEQ's "Complying with the Edwards Rules: Technical Guidance Manual on Best Management Practices", Section 3.5.20.

Maintenance Guidelines for Batch Detention Basins

Batch detention basins may have somewhat higher maintenance requirements than an extended detention basin since they are active stormwater controls. The maintenance activities are identical to those of extended detention basins with the addition of maintenance and inspections of the automatic controller and the valve at the outlet.

Inspections. Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.

Mowing. The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

Litter and Debris Removal. Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

Erosion control. The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regarding and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.

Nuisance Control. Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

Structural Repairs and Replacement. With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

Sediment Removal. A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

Logic Controller. The Logic Controller should be inspected as part of the twice yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

NOTE: This Inspection, Maintenance, Repair and Retrofit Plan for the **Williams Senior Living Water Qualtiy and Detention Pond** was created and designed by the engineer of this BMP. Maintenance is the responsibility of the Owner and should be followed in accordance with this plan in order to keep the BMPs operating correctly.

DAVID I PLA

David L. Platt, P.E. Steger Bizzell

2023-07-25

Date

Permanent BMP Log

Date	Date of Last Inspection	Inspection Performed By	Title	Company	Status of BMP(s)	Corrective Action Required (if any)	Date Corrective Action Completed
2							

Responsible Party:Williams Senior Living, LLCMailing Address:1500 Rivery Boulevard., Suite 2200 City, State: Zip Code: Georgetown, TX 78628 Telephone: 512-943-4703

Signature of Responsible Party

23

Agent Authorization Form

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

I	Cade Novak Print Name	
	Managing Member Title - Owner/President/Other	<u> </u>
of	Novak Williams Senior Living, LLC Corporation/Partnership/Entity Name	<u>\</u>
have authorized	David Platt, P.E. Print Name of Agent/Engineer	<u>1</u>
of	Steger Bizzell Print Name of Firm	L

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.
- 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.

SIGNATURE PAGE:

Applicant's Signature

Dat

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Cade Novak</u> 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.

102 no GIVEN under my hand and seal of office on this day of NO Typed or Printed Name of Notary 03-14-2024 MY COMMISSION EXPIRES:

Application Fee Form

Texas Commission on Environmental Quality				
Name of Proposed Regulated Entity: Williams Senior Living				
Regulated Entity Location: 4775 Williams Drive, Georgetown, TX 78633				
Name of Customer: <u>Novak Williams Senior Living, LLC</u>				
Contact Person: Cade Novak Phone	e: <u>512-943-4703</u>			
Customer Reference Number (if issued):CN <u>N/A</u>				
Regulated Entity Reference Number (if issued):RN <u>N/A</u>				
Austin Regional Office (3373)				
Havs Travis	Xw	illiamson		
San Antonio Regional Office (3362)				
	—	- 1 - 1		
Bexar Miedina		alde		
Comal Kinney				
Application fees must be paid by check, certified check, or	r money order, payab	le to the Texas		
Commission on Environmental Quality. Your canceled ch	neck will serve as you	r receipt. This		
form must be submitted with your fee payment. This pa	iyment is being submi	itted to:		
🖂 Austin Regional Office	in Antonio Regional O	office		
Mailed to: TCEQ - Cashier	vernight Delivery to: 1	TCEQ - Cashier		
Revenues Section 12	2100 Park 35 Circle			
Mail Code 214 Bu	Building A, 3rd Floor			
P.O. Box 13088 Au	Austin, TX 78753			
Austin, TX 78711-3088 (5	512)239-0357			
Site Location (Check All That Apply):				
Recharge Zone	Transi	tion Zone		
Type of Plan	Size	Fee Due		
Water Pollution Abatement Plan, 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: Non-residential	8.55 Acres	\$ 5,000		
Sewage Collection System	L.F.	\$		
Lift Stations without sewer lines	Acres	\$		
Underground or Aboveground Storage Tank Facility	Tanks	\$		
Piping System(s)(only)	Each	\$		
Exception	Each	\$		
Extension of Time	Each	\$		
Signature: Date:	7/24/2023			

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 on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. 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)						
	onn should be submitted with	the program application.						
Renewal (Core Data Form should be submitted with the	e renewal form)	└ Other						
2. Customer Reference Number (if issued)		3. Regulated Entity Reference Number (if issued)						
	Follow this link to search							
	for CN or RN numbers in							
CN N/A	RN N/A							

SECTION II: Customer Information

4 Conoral Cu	stomor In	formati	ion	E Effective	Data for C		or Ind	formation	Indat	oc (mm/dd/				
4. General Cu														
New Custor	ner		U 🗌	pdate to Custo	omer Informa	tion		🗌 Chan	ige in Re	egulated Ent	ity Owne	ership		
Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)														
The Custome	The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State													
(SOS) or Texa	s Comptro	oller of I	Public Accou	nts (CPA).										
6. Customer I	legal Nam	e (If an i	individual, pri	nt last name fi	rst: eg: Doe, J	lohn)			<u>If nev</u>	v Customer,	enter pre	evious Custom	er below:	
Novak Williams	Senior Livi	ng, LLC												
7. TX SOS/CP	A Filing N	umber		8. TX State	Tax ID (11 d	igits)			9. Fe	deral Tax II	D	10. DUNS	Number (if	
0804936068				320885157/	0				(Q dia	rite)		applicable)		
0804550008				5200051574	0				(5 01g	51(3)		N/A		
11. Type of C	ustomer:		Corporat	tion				🗌 Individ	lual		Partne	rtnership: 🔲 General 🗌 Limited		
Government:	City 🗌 🕻	County [Federal	Local 🗌 State	e 🗌 Other			🗌 Sole Pr	roprieto	orship	🗌 Ot	her:		
12. Number o	of Employ	ees							13. l	ndepender	ntly Ow	ned and Ope	erated?	
0-20 🛛 2	21-100 [] 101-2	50 🗌 251-	500 🗌 501	and higher				🖂 Ye	es (🗌 No			
14. Customer	Role (Pro	posed or	Actual) – as i	t relates to the	Regulated E	ntity list	ted oi	n this form.	Please (check one of	the follo	owing		
Owner		Оре	erator	0	vner & Opera	ator				Othor:				
	al Licensee	🗌 Re	esponsible Pa	rty 🗌	VCP/BSA App	olicant								
15. Mailing	1500 Rive	ery Boule	evard											
Addrocci	Suite 220	0												
Address.	City Georgetown State TX					ZIP	78628			ZIP + 4	N/A			
16. Country N	Aailing Inf	ormatio	on (if outside	USA)			17. E-Mail Address (if applicable)							
N/A							cne	ovak@noval	kbros.co	om				
18. Telephone Number 1			19. Extensio	on or C	ode			20. Fax N	umber	(if applicable)				

(512)943-47	703
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SECTION III: Regulated Entity Information

21. General Regulated En	21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)							
New Regulated Entity	New Regulated Entity Dupdate to Regulated Entity Name Dupdate to Regulated Entity Information							
The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).								
22. Regulated Entity Nam	ne (Enter name	e of the site where the	regulated action	is taking pla	ce.)			
Williams Senior Living								
23. Street Address of	23. Street Address of 4775 Williams Drive							
(NO PO Boxes)	City	Georgetown	State	тх	ZIP	78633	ZIP + 4	0
24. County	Williamson							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location: Northeast of the intersection of Wildwood Drive and Williams Drive in Georgetown, TX.											
26. Nearest City						State		Nea	rest ZIP Code		
Georgetown	Georgetown TX 78633										
Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).											
27. Latitude (N) In Decim	al:	30.68950		28. Lo	ngitude (W	/) In Decimal:		-97.72371	L		
Degrees	Minutes		Seconds	Degree	25	Minute	es		Seconds		
30		41	22.20		97		43		25.36		
29. Primary SIC Code (4 digits)	30. Secondary SIC Code 31. Primary NAICS Code 32. Secondary NAICS Code (4 digits) (5 or 6 digits) (5 or 6 digits)						CS Code				
1522	N/A	L.		236116		N	/A				
33. What is the Primary E	Business of t	this entity? (Do	o not repeat the SIC or	NAICS descrip	otion.)	·					
Senior Multi-Family Resident	tial Housing										
34 Mailing	4775 Willi	ams Drive									
Address:											
Address.	City	Georgetown	State	тх	ZIP	78633	:	ZIP + 4			
35. E-Mail Address:	cno	vak@novakbros.c	com				·		·		
36. Telephone Number 37. Extension or Code 38. Fax Number (if applicable)											
(512) 943-4703 N/A (N/A) -											

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

Dam Safety	Districts	Edwards Aquifer	Emissions Inventory Air	Industrial Hazardous Waste
		WPAP		
Municipal Solid Waste	New Source Review Air	OSSF	Petroleum Storage Tank	D PWS
Sludge	Storm Water	🔲 Title V Air	Tires	Used Oil
Voluntary Cleanup	U Wastewater	Wastewater Agriculture	Water Rights	Other:

SECTION IV: Preparer Information

40. Name:	David Platt			41. Title:	Project Manager	
42. Telephone	42. Telephone Number 43. Ext./Code 44. F		44. Fax Number	45. E-Mail Address		
(512) 930-9412		N/A	(N/A) -	dplatt@stege	erbizzell.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:	Steger Bizzell	Job Title:	anager		
Name (In Print):	David Platt			Phone:	(512) 930- 9412
Signature:	LAM			Date:	7/24/2023