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 30 TAC 213.

Administrative Review

1. Edwards Aquifer applications 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: http://www.tceq.texas.gov/field/eapp.

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: VOV Cranes Mill Single Family						**2. Regulated Entity No.: N/A**			
3. Customer Name: VOX COMM 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 (acres):**			12.476
9. Application Fee:	$4,000		**10. Permanent BMP(s):**			N/A			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			N/A			
13. County:	Comal		**14. Watershed:**			Comal River-Guadalupe River			

Application Distribution

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

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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	___
Region (1 req.)	___	___	___
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 ___Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	_X_	___	___	___
Region (1 req.)	___	_X_	___	___	___
County(ies)	___	_X_	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	_X_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. Trevor Tast, P.E. Print Name of Customer/Authorized Agent 10/30/2023 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:		Distribution 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):		Fee Check:	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):			Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

General Information Form

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Trevor Tast, P.E.

Date: 10/30/2023

Signature of Customer/Agent:

Project Information

1. Regulated Entity Name: VOV Cranes Mill Single Family
2. County: Comal
3. Stream Basin: Guadalupe River Basin
4. Groundwater Conservation District (If applicable): Comal Trinity GCD, Edwards Aquifer Authority
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☐ Transition Zone

6. Plan Type:

   ☒ WPAP
   ☐ SCS
   ☐ Modification
   ☐ AST

☐ UST ☐ Exception Request

7. Customer (Applicant):

Contact Person: Thad Rutherford
Entity: VOX COMM LLC
Mailing Address: 2055 Central Plaza Ste 110 Box 195
City, State: New Braunfels, TX Zip: 78130
Telephone: (305) 476-1515 FAX: N/A
Email Address: N/A

8. Agent/Representative (If any):

Contact Person: Trevor Tast, P.E.
Entity: TX2 Engineering
Mailing Address: 45 Floral Ave. Suite C
City, State: New Braunfels, TX Zip: 78130
Telephone: 816-510-9151 FAX: N/A
Email Address: trevor@tx2engineering.com

9. Project Location:

☐ The project site is located inside the city limits of _____.
☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
☒ The project site is not located within any city's limits or ETJ.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The site is located approximately on the northeast corner of Hwy 46 and S. Cranes Mill Rd. in the Vintage Oaks at the Vineyard Subdivision off Hwy 46 in New Braunfels.

11. ☒ **Attachment A – Road Map**. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map**. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

☒ Project site boundaries.
☒ USGS Quadrangle Name(s).
☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
☒ Drainage path from the project site to the boundary of the Recharge Zone.

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

☒ Survey staking will be completed by this date: 02/17/2024

14. ☒ **Attachment C – Project Description**. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

    ☒ Area of the site
    ☒ Offsite areas
    ☒ Impervious cover
    ☒ Permanent BMP(s)
    ☒ Proposed site use
    ☒ Site history
    ☒ Previous development
    ☒ Area(s) to be demolished

15. Existing project site conditions are noted below:

    ☐ Existing commercial site
    ☐ Existing industrial site
    ☐ Existing residential site
    ☐ Existing paved and/or unpaved roads
    ☐ Undeveloped (Cleared)
    ☒ Undeveloped (Undisturbed/Uncleared)
    ☐ Other: _____

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

    (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);

    (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;

    (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;

    (4) The use of sewage holding tanks as parts of organized collection systems; and

    (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).

    (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

    (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

(2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

(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:

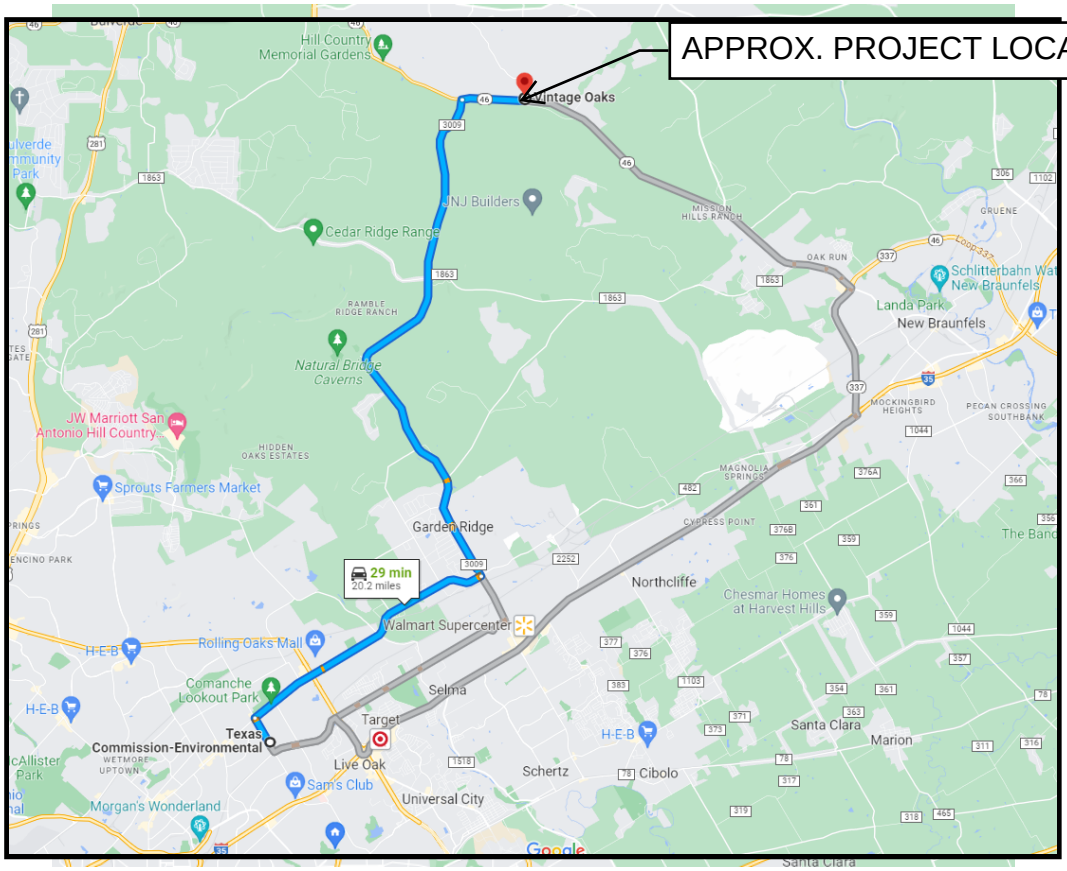
☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
☐ For a UST Facility Plan or Modification or an AST Facility 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.

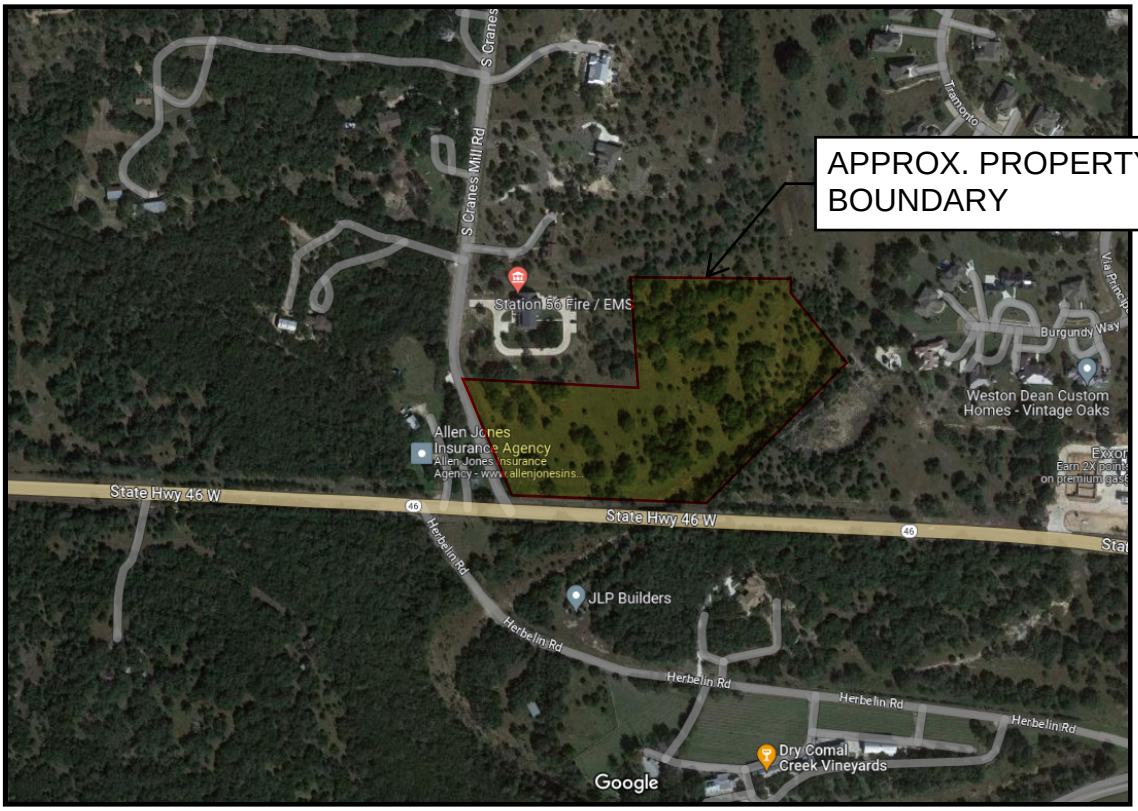
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

☐ 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. ☒ 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.





811 Know what's below. Call before you dig.

SHEET

ATTACHMENT A

VICINITY MAP
VINTAGE OAKS AT THE VINEYARD - CRANES MILL SINGLE FAMILY
NOT TO SCALE

N

2023

TX2 ENGINEERING
FIRM #: 20787

CONTACT
1659 STATE HWY 46 WEST, STE 115-438
NEW BRAUNFELS, TX 78132

TEL: (816) 510-9151

DWG: D:\Standards\AutoCAD\Borders\11X17_8.5X11.dwg USER: 18165
DATE: Apr 23, 2019 7:03am XREFS:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SMITHSON VALLEY QUADRANGLE
TEXAS–COMAL CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Edwards Aquifer Contributing Zone

Edwards Aquifer Recharge Zone

APPROXIMATE PROJECT LOCATION

Produced by the United States Geological Survey
in cooperation with the Texas Water Development Board

Control by USGS and NOS/NOAA

Compiled from aerial photographs taken 1963. Revisions shown in purple compiled from aerial photographs taken 1986 and other sources and has been field checked. Map edited 1994
Conflicts may exist between some updated features and previously mapped contours

North American Datum of 1927 (NAD 27). Projection and 10000-foot ticks: Texas Coordinate System, south central zone (Lambert Conformal Conic)
Blue 1000-meter Universal Transverse Mercator ticks, zone 14

North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1994 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

TEXAS
QUADRANGLE LOCATION

2998-431

ROAD CLASSIFICATION

Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U. S. Route
State Route

SMITHSON VALLEY, TEX.
29098-G3-TF-024

1964
REVISED 1994
DMA 6343 IV SE-SERIES V882

INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA—1994

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program

Regulatory Zones

30 TAC Chapter 213- Edwards Aquifer
Effective September 2005

This map was produced by the Groundwater Planning and Assessment Team of the Texas Commission on Environmental Quality to detail the boundaries of the regulatory zones of the Edwards Aquifer Protection Program, as described in Texas Administrative Code Title 30, Part 1, §213.3. No other claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information about the Edwards Aquifer Protection Program, please contact the TCEQ Regional Offices in San Antonio or Austin. Printed June 2006.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BAT CAVE QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

Edwards Aquifer Contributing Zone

Edwards Aquifer Contributing Zone

Edwards Aquifer Recharge Zone

Edwards Aquifer Contributing Zone within the Transition Zone

Edwards Aquifer Transition Zone

Edwards Aquifer Transition Zone

Mapped, edited, and published by the Geological Survey
Revised in cooperation with the Texas Water Development Board

Control by USGS and NOS/NOAA

Topography by the Army Map Service by photogrammetric methods from aerial photographs taken 1952. Field checked 1953. Revised by USGS from aerial photographs taken 1986. Field checked 1987
Map edited 1988

Projection and 10,000-foot grid ticks: Texas coordinate system, south central zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid, zone 14
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 20 meters south and 29 meters east as shown by dashed corner ticks

Fine red dashed lines indicate selected fence lines

Red tint indicates areas in which only landmark buildings are shown

UTM GRID AND 1988 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

2998-424

ROAD CLASSIFICATION

Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U. S. Route
State Route

BAT CAVE, TEX.
29098–F3–TF–024
1988
DMA 6343 III NE-SERIES V882

INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA 1988

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program

Regulatory Zones

30 TAC Chapter 213- Edwards Aquifer
Effective September 2005

This map was produced by the Groundwater Planning and Assessment Team of the Texas Commission on Environmental Quality to detail the boundaries of the regulatory zones of the Edwards Aquifer Protection Program, as described in Texas Administrative Code Title 30, Part 1, §213.3. No other claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information about the Edwards Aquifer Protection Program, please contact the TCEQ Regional Offices in San Antonio or Austin. Printed June 2006.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NEW BRAUNFELS WEST QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

Edwards Aquifer Recharge Zone

Edwards Aquifer Transition Zone

Produced by the United States Geological Survey
Revised in cooperation with the Texas Water Development Board

Control by USGS, NOS/NOAA, and USCE

Compiled by the Army Map Service by photogrammetric methods from aerial photographs taken 1956. Field checked 1958
Revised from aerial photographs taken 1986. Field checked 1987
Map edited 1988

Projection and 10,000-foot grid ticks: Texas coordinate system, south central zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid, zone 14
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 20 meters south and 28 meters east as shown by dashed corner ticks

Fine red dashed lines indicate selected fence and field lines generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1988 MAGNETIC NORTH DECLINATION AT CENTER OF MAP DIAGRAM IS APPROXIMATE

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000 FEET
1 5 0 1 MILES
1 5 0 1 2 KILOMETERS
1000 0 1000 2000 METERS

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

TEXAS
QUADRANGLE LOCATION

2998-413

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route · U. S. Route · State Route

NEW BRAUNFELS WEST, TEX.
29098-F2-TF-024
1988
DMA 6343 II NW–SERIES V822

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program

Regulatory Zones
30 TAC Chapter 213- Edwards Aquifer
Effective March 1974

This map was produced by the Groundwater Planning and Assessment Team of the Texas Commission on Environmental Quality to detail the boundaries of the regulatory zones of the Edwards Aquifer Protection Program, as described in Texas Administrative Code Title 30, Part 1, §213.3. No other claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information about the Edwards Aquifer Protection Program, please contact the TCEQ Regional Offices in San Antonio or Austin. Printed June 2006.

TX2 Engineering
Firm F-20787
645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

General Information - Attachment C

Project Description

VOV Cranes Mill Single Family is a 12.476 -acre tract of land that is in Comal County outside of any ETJ limits.

The existing site is an undeveloped tract of land.

The proposed development is to be a Single-Family Residential located approximately on the northeast corner of Hwy 46 and S. Cranes Mill Rd. in the Vintage Oaks at the Vineyard Subdivision off Hwy 46 in New Braunfels. The proposed improvements
associated with this project include an asphalt roadway conforming to Comal County standards, The site would ultimately include approximately 11.183 acres of single-family residential lots, and 1.293 acres of street right-of-way. The streets are accounted for in the impervious cover calculations. The total impervious cover for the site is 2.21 acres of the overall 12.476 acres being (17.69% impervious).

The property drains primarily overland to existing channels ultimately to the Guadalupe River. The existing channel routes stormwater from offsite areas consisting of densely vegetated tree cover.

The estimated total disturbed area is 5.82 acres. All stormwater will be treated with temporary BMPs before leaving the site. Temporary BMPs proposed for the site include a construction entrance/ exit, rock berms, concrete washout pits, silt fences, and naturally vegetated buffers. All areas not proposed with impervious cover will be revegetated after construction is completed.

There are no required permanent BMPs for this project. In terms of on-site stormwater and surface streams, no permanent BMPs are required because the site is less than 20% impervious.

Wastewater generated by the proposed development will be conveyed to the existing treatment facility, Vintage Oaks at the Vineyard WWTP (WQ0015320001). Connection will be made to the existing sewer main which traverses the northern boundary of the subject property.

GEOLOGIC ASSESSMENT

For

VINTAGE OAKS AT THE VINEYARDS
CRANES MILL SINGLE FAMILY TRACT
NEC HIGHWAY 46 & CRANES MILL ROAD
CANYON LAKE, TEXAS

Prepared for

TX2 Engineering
1659 State Hwy 46 West, Suite 115-438
New Braunfels, TX 78132

Prepared by

Professional Service Industries, Inc.
3 Burwood Lane
San Antonio, Texas 78216
Telephone (210) 342-9377

PSI PROJECT NO.: 0435- 6049

September 29, 2023

Professional Service Industries, Inc.
3 Burwood Lane, San Antonio, TX 78216
Phone: (210) 342-9377
Fax: (210) 342-9401

September 29, 2023

TX2 Engineering, F-20787
1659 State Highway 46 West, Suite 115-438
New Braunfels, TX 78132

Attn: Mr. Trevor Tast, PE, Vice President of Operations
Email: trevor@tx2engineering.com

RE: Geologic Assessment
Vintage Oaks at the Vineyard Cranes Mill Single Family
NEC Highway 46 & Cranes Mill Road
Comal County, Texas
PSI Project No. 435-6049

Dear Mr. Tast:

Professional Service Industries, Inc. (PSI) has completed a geologic recharge assessment for the above referenced project in compliance with the Texas Commission on Environmental Quality (TCEQ) requirements for regulated developments located on the Edwards Aquifer Recharge Zone (EARZ). The purpose of this report is to describe surficial geologic units and identify the locations and extent of significant recharge features present in the development area.

PROJECT DESCRIPTION

The property consists of an approximate 12.46-acre tract of land located on the northeast corner of Highway 46 and Cranes Mill Road in Comal County, Texas. The subject property is located on the Edwards Aquifer Recharge Zone (EARZ), and therefore subject to special rules promulgated by the Texas Commission on Environmental Quality (TCEQ) designed to protect environmentally sensitive areas. The site vegetation consists of live oak, ashe juniper and hackberry trees, with mountain laurel, prickly pear, persimmon and native grasses and weeds. The site is bordered to the east by the Dry Comal Creek, which drains to the southwest before curving to the east.

REGIONAL GEOLOGY

Physiography

From northwest to southeast, the three physiographic provinces in Comal County are: the Edwards Plateau, the Blackland Prairie, and the West Gulf Coastal Plain. The Edwards Plateau terrain is rugged and hilly, with elevations ranging from 1,100 feet to 1.900 feet above sea level. This area is underlain by beds of limestone that dip gently to the southeast. South of the Edwards Plateau is the Balcones Fault Zone, which is also the northernmost limit of the Blackland Prairie. The Balcones Fault Zone extends northeast-southwest across Bexar County and is composed of fault blocks of limestone, chalk, shale, and marl. The undulating, hilly topography of the Blackland Prairie ranges in elevation from about 700 feet to 1100 feet above sea level. The faults are predominantly normal, down-to-the Gulf Coast, with near vertical throws. The West Gulf Coastal Plain lies southeast of the Blackland Prairie and is composed of relatively flat-lying beds of marl, clay, and sandy clay. According to topographic maps, elevations at the subject range from approximately 1,103 feet above mean sea level on the northwest portion of the tract, to approximately 1,077 feet above mean sea level on the eastern portion of the tract, in the Dry Comal Creek Drainage.

Stratigraphy and Structure

Rocks at the site are mapped as the Lower Cretaceous Upper Glen Rose (Kgru). The Glen Rose has the *Corbula* bed, C, dividing the formation into upper, (Kgru), and lower, (Kgrl). The Glen Rose contains limestone, dolomite, and marl as alternation resistant and recessive beds forming stairstep topography; limestone, aphanitic to fine grained, hard to soft and marly, light gray to yellowish gray; dolomite, fine grained, porous, yellowish brown; marine megafossils include molluscan steinkerns, rudistids, oysters, and echinoids. Upper part, Kgru, is relatively thinner bedded, more dolomitic, and less fossiliferous; thickness about 220 feet, the lower Glen Rose is approximately 160 feet thick.

SITE INVESTIGATION

The site investigation was performed by systematically traversing the subject tract, and mapping fractured or vuggy rock outcrops, closed depressions, sinkholes, caves, or indications of fault/fracture zones. The purpose of the site investigation was to delineate features with recharge potential that may warrant special protection or consideration. The results of the site investigation are included in the attached TCEQ report format.

SUMMARY

No sensitive features were noted on the subject tract. A fractured rock outcrop feature (S-1) was noted in the Dry Comal Creek drainage on the east side of the site, but did not appear to have significant potential for vertical migration of runoff, and is not considered a sensitive feature. Please note that subtle features, buried or obscured from view, may be present on the tract. It is possible that clearing/construction activities will reveal the presence of features currently hidden by thick vegetation and/or soil cover. If caves, sinkholes, or solution cavities are encountered during future clearing/construction activities, please contact our office for additional assistance.

Respectfully submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.

John Langan, P.G.
Environmental Department Manager

WARRANTY

The field observations and research reported herein are considered enough in detail and scope to form a reasonable basis for a general geological recharge assessment of this site. PSI warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted geologic methods, only for the site described in this report. These methods have been developed to provide the client with information regarding apparent indications of existing or potential conditions relating to the subject site and are necessarily limited to the conditions observed at the time of the site visit and research. This report is also limited to the information available at the time it was prepared. In the event additional information is provided to PSI following the report, it will be forwarded to the client in the form received for evaluation by the client. There is a possibility that conditions may exist which could not be identified within the scope of the assessment, or which were not apparent during the site visit. PSI believes that the information obtained from others during the review of public information is reliable; however, PSI cannot warrant or guarantee that the information provided by others is complete or accurate.

This report has been prepared for the exclusive use of TX2 Engineering for the site discussed herein. Reproductions of this report cannot be made without the expressed approval of TX2 Engineering. The general terms and conditions under which this assessment was prepared apply solely to TX2 Engineering. No other warranties are implied or expressed.

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: John Langan

Telephone: 210/342-9377

Date: 9/29/23

Fax: 210/342-9401

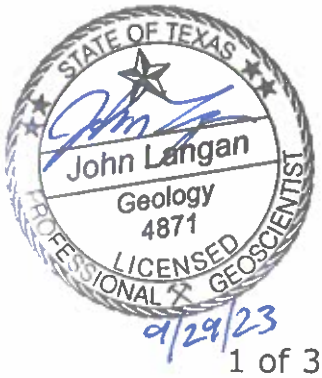
Representing: PSI TBPG No. 50128 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

Regulated Entity Name: Vintage Oaks at the Vineyard Cranes Mill Single Family Tract

Project Information

1. Date(s) Geologic Assessment was performed: 9/26, 29/23
2. Type of Project:
   - ☒ WPAP
   - ☐ SCS
   - ☐ AST
   - ☐ UST
3. Location of Project:
   - ☒ Recharge Zone
   - ☐ Transition Zone
   - ☐ Contributing Zone within the Transition Zone



4. ☒ **Attachment A - Geologic Assessment Table**. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.

5. ☐ 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.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)

Soil Name	Group*	Thickness(feet)
Comfort-Rock outcrop complex, 1-8% slopes	B	1-3

** Soil Group Definitions (Abbreviated)*

A. *Soils having a high infiltration rate when thoroughly wetted.*
B. *Soils having a moderate infiltration rate when thoroughly wetted.*
C. *Soils having a slow infiltration rate when thoroughly wetted.*
D. *Soils having a very slow infiltration rate when thoroughly wetted.*

6. ☒ **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. ☒ **Attachment C – Site Geology**. 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. ☒ **Attachment D – Site Geologic Map(s)**. The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

   Applicant's Site Plan Scale: 1" = 60'
   Site Geologic Map Scale: 1" = 60'
   Site Soils Map Scale (if more than 1 soil type): 1" = _____'

9. Method of collecting positional data:

   ☒ Global Positioning System (GPS) technology.
   ☐ Other method(s). Please describe method of data collection: _____

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.

11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☒ 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. ☐ The Recharge Zone boundary is shown and labeled, if appropriate.

14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

    ☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
    - ☐ The wells are not in use and have been properly abandoned.
    - ☐ The wells are not in use and will be properly abandoned.
    - ☐ The wells are in use and comply with 16 TAC Chapter 76.

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

Administrative Information

15. ☒ 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.

STRATIGRAPHIC COLUMN
Vintage Oaks at the Vineyards Cranes Mill Single Family Tract
NEC Highway 46 & Cranes Mill Road
Comal County, Texas

FORMATION	THICKNESS	LITHOLOGIC DESCRIPTION
Georgetown Formation	<10’	Light tan limestone identified by proximity to Del Rio clay and diagnostic marker fossil: *waconella wacoensis* brachiopod; low porosity and permeability development.
Person Formation	180-224’	Limestones and dolomites, extensive porosity development in “honeycomb sections, interbedded with massive, recrystallized limestones with more limited permeabilities (especially Regional Dense Member separating the Person and Kainer Formations.
Kainer Formation	260-310’	Hard, miliolid limestones, overlying calcified dolomites and dolomite. Leached evaporitic “Kirschberg” zone of very porous and permeable collapse breccia formed by the dissolution of gypsum. Overlies the basal nodular (Walnut) bed.
Glen Rose Limestone (upper)	350-500	Yellowish-tan thinly bedded limestone and marl. Alternating beds of varying hardness erodes to “stairstep” topography. Marine fossils common.

SOILS NARRATIVE

According to the Soil Survey of Comal County, published by the United States Department of Agriculture, Soil Conservation Service, in cooperation with the Texas Agricultural Extension Service, reissued in 1984, the soils beneath the subject property have been classified as Comfort-Rock outcrop complex, undulating (CrD).

Comfort extremely stony clay makes up between 49 and 95% of the Comfort-Rock outcrop series, and indurated rock outcrop and soil less than 4 inches deep make up 5 to 36% of the complex. Typically, the surface layer is dark brown extremely stony soil about 6 inches thick. Cobbles, stones, and "float" rock comprise about 45% of the surface. The subsoil extends to about 13 inches and overlies the fractured limestone parent material. Comfort soil is well-drained, with slow to medium surface runoff, slow permeability, and very low water capacity.

SITE GEOLOGIC NARRATIVE

Physiography

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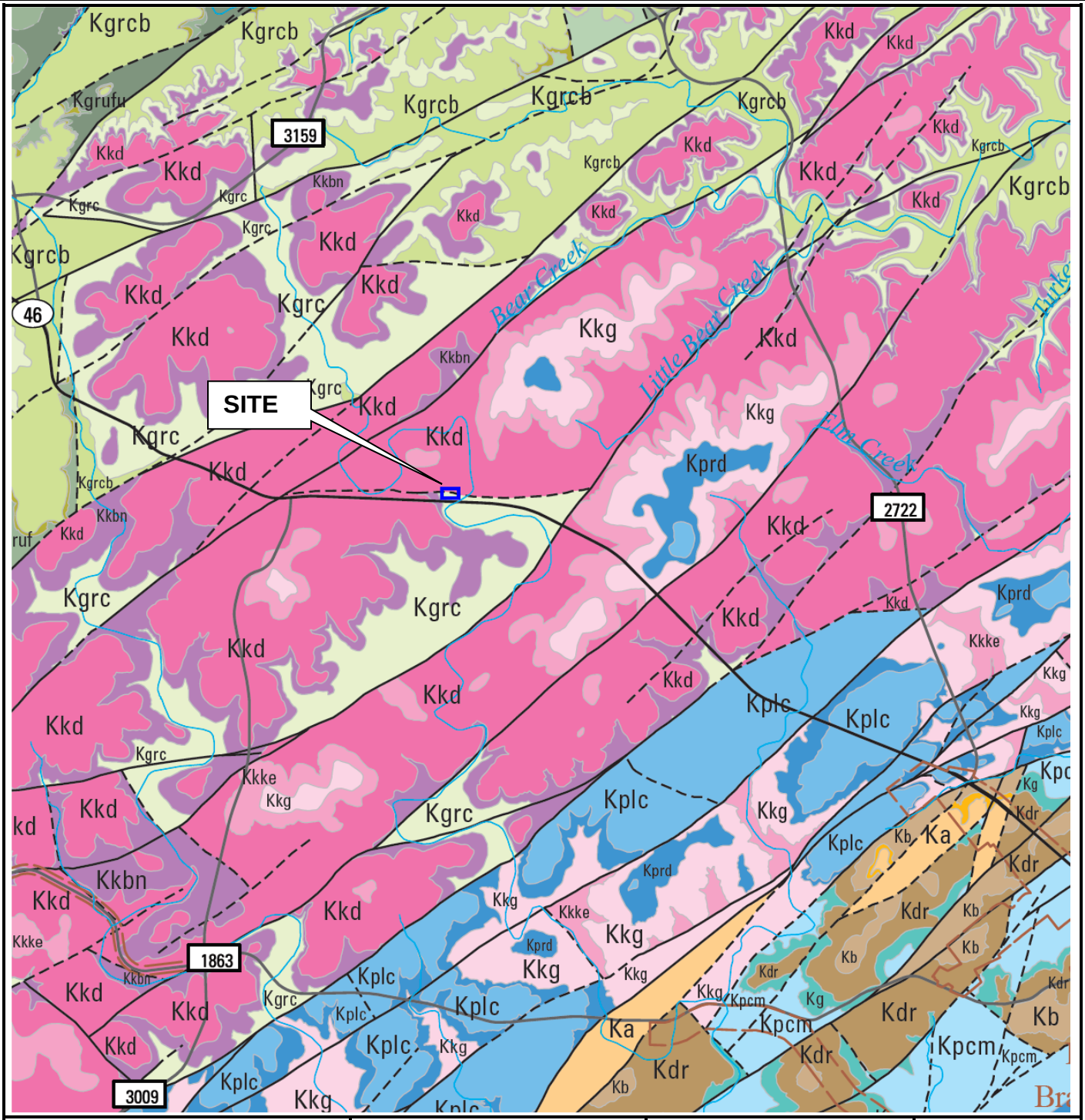


intertek
psi

PSI, Inc.
3 Burwood Lane
San Antonio, Texas 78216

PROJECT NAME:
Vintage Oaks at the Vineyards
Cranes Mill Single Family Tract
NEC Hwy. 46 & Cranes Mill Rd.
Comal County, Texas
PROJECT NO.:435-6049

STATE OF TEXAS
John Langan
Geology
4871
LICENSED
PROFESSIONAL GEOSCIENTIST
9/29/23

Geologic Map

From USGS "Geologic Framework and Hydrostratigraphy of the Edwards & Trinity Aquifers Within Northern Bexar & Comal Counties, Scientific Investigations Map 3366 Texas"(Clark, Golab and Morris, 2016)

N

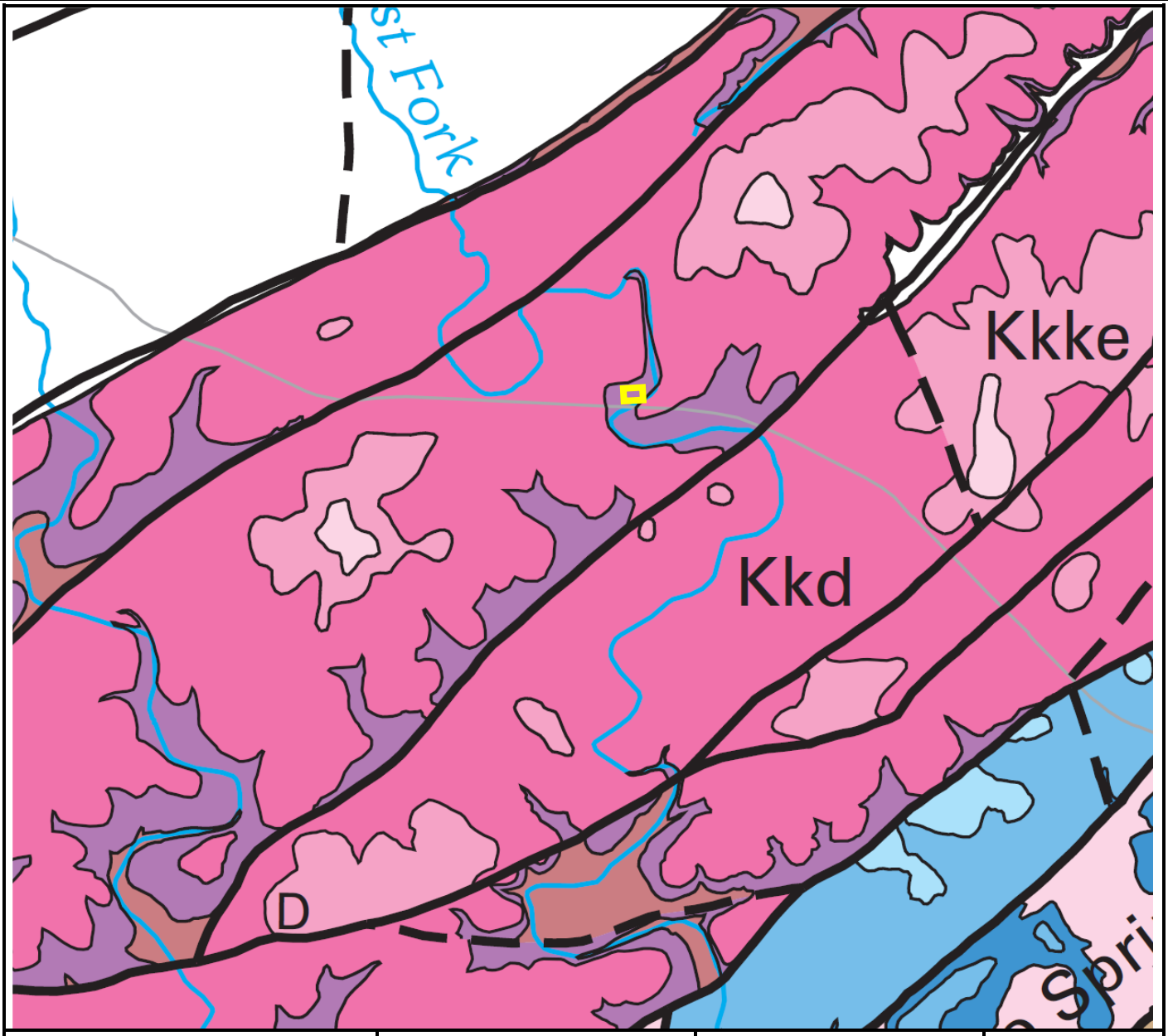
Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers Within Northern Bexar and Comal Counties, Texas

By

Allan K. Clark, James G. Golab, and Robert R. Morris

2016

Cretaceous	Early Cretaceous		Kainer	Kirschberg Evaporite	Highly altered crystalline limestone, chalky mudstone, occasional grainstone associated with tidal channels; chert (beds and nodules), coarse grained spar, breccia, travertine	Kkke			VI	40–50	Aquifer	IG, MO, VUG, FR, BR, CV	Boxwork porosity with neospar and travertine frame
				Dolomitc	Chert (absent in lower 20 ft), dolomitic mudstone, wackestone, packstone, grainstone	Kkd			VII	90–120	Aquifer	IP, IC, IG, MO, BU, VUG, FR, BP, CV	Massively bedded light gray, *Toucasia* sp., abundant
				Basal nodular	Shaly, nodular, burrowed mudstone, wackestone, packstone, miliolid grainstone, dolomite, contains dark, spherical textural features locally known as BRBs; *Ceratostreon texana*, *Caprina* sp., miliolids, and gastropods	Kkbn			VIII	40–50	Aquifer, confining unit in areas without caves	IP, MO, BU, BP, FR, CV	Massive, nodular and mottled limestone, BRBs and orange wisps, *Ceratostreon* [*Exogyra*] *texana*, seeps and springs, ferns growing near contact of underlying unit
				Upper	Evaporites, wackestone, packstone, miliolid grainstone, argillaceous limestone, heavily bioturbated; occasional dinosaur tracks	Kgrc		Upper zone of the Trinity aquifer	Cavernous	0–120 (absent in northern Comal County)	Aquifer	MO, BR, BP, FR, CV	Heavily bioturbated, evaporite beds, caves
					Alternating beds of burrowed wackestone, packstone, miliolid grainstone, argillaceous limestone	Kgrcb			Camp Bullis (B)	120–230 (thicker in northern Comal County)	Confining	BU, BP, FR, occasional CV	Alternating beds of limestone and argillaceous limestone, fossils rare, stairstep topography
					Dissolved evaporites, highly altered crystalline limestone and chalky mudstone, breccia, boxwork voids	Kgrue			Upper evaporite (C)	0–10	Aquifer	IP, MO, BU, BR	Weathers to an orangish red with a pebbly texture, often has less cedar growth and thicker grasses, boxwork porosity, springs and seeps
					Caprinid biostrome near top (locally), alternating wackestone, packstone to miliolid grainstone, argillaceous limestone, mudstone, silty mudstone at base; *Orbitolina minuta* (Douglas, 1960), *Porocystis golobularis*, *Protocardia texana*, *Tapes decepta*, *Hemiaster* sp., *Neithea* sp., and *Turritella* sp., gastropods	Kgrf	Kgruf		Fossiliferous (D) Upper	0–40	Aquifer	MO, BU, FR, CV	Caprinid biostrome, limestone, argillaceous limestone, *Orbitolina minuta* (Douglas, 1960)
							Kgrlf		Fossiliferous (D) Lower	80–150	Confining	MO, BU, FR	Limestone and argillaceous limestone, *Orbitolina minuta* (Douglas, 1960)
					Dissolved evaporites, highly altered crystalline limestone and chalky mudstone, breccia, boxwork voids; Corbula beds	Kgrle			Lower evaporite (E)	8–10	Aquifer	IP, MO, BU, BR	Weathers to an orangish red with a pebbly texture, often has less cedar growth and thicker grasses, boxwork porosity, *Corbula* sp., spring and seeps
			e Limestone		Wackestone, packstone, grainstone, argillaceous wackestone, shales, evaporites; this section contains occasional fossils of *Orbitolina texana* (Roemer, 1852), *Porocystis golobularis*, *Salenia texana*, *Monopleura* sp., *Toucasia* sp., *Macraster* sp., *Nerinea* sp., gastropods, pectens, and pelecypods	Kgrb			Bulverde (A)	30–40 (typically 30)	Semiconfining	MO, BR BP, FR	*Salenia texana* bed immediately below Corbula bed, abundant fossils including *Porocystis golobularis*, *Orbitolina texana* (Roemer, 1852), *Macraster* sp., *Nerinia* sp., pecten, gastropods, pelecyopods



intertek psi
PSI, Inc.
3 Burwood Lane
San Antonio, Texas 78216

PROJECT NAME:
Vintage Oaks at the Vineyard
Cranes Mill Residential Tract
NEC Hwy. 46 & Cranes Mill Rd.
Comal County, Texas
PROJECT NO.:435-6049

Geologic Map
From: Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas
USGS
C.D. Blome, J.R. Faith, et al 2005

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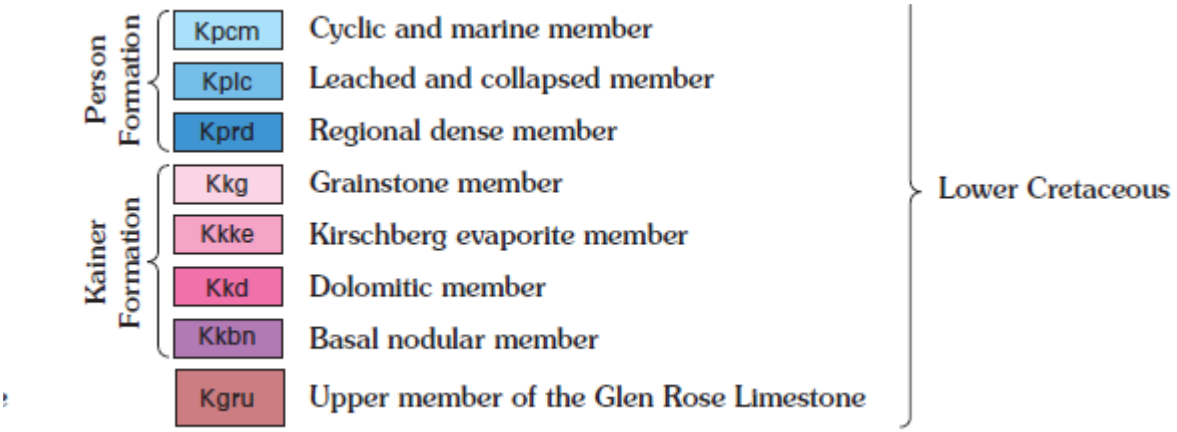
Person Formation
Kpcm
Cyclic and marine member
Kplc
Leached and collapsed member
Kprd
Regional dense member
Kainer Formation
Kkg
Grainstone member
Kkke
Kirschberg evaporite member
Kkd
Dolomitic member
Kkbn
Basal nodular member
Kgru
Upper member of the Glen Rose Limestone
Lower Cretaceous


STATE OF TEXAS
John Langan
Geology
4871
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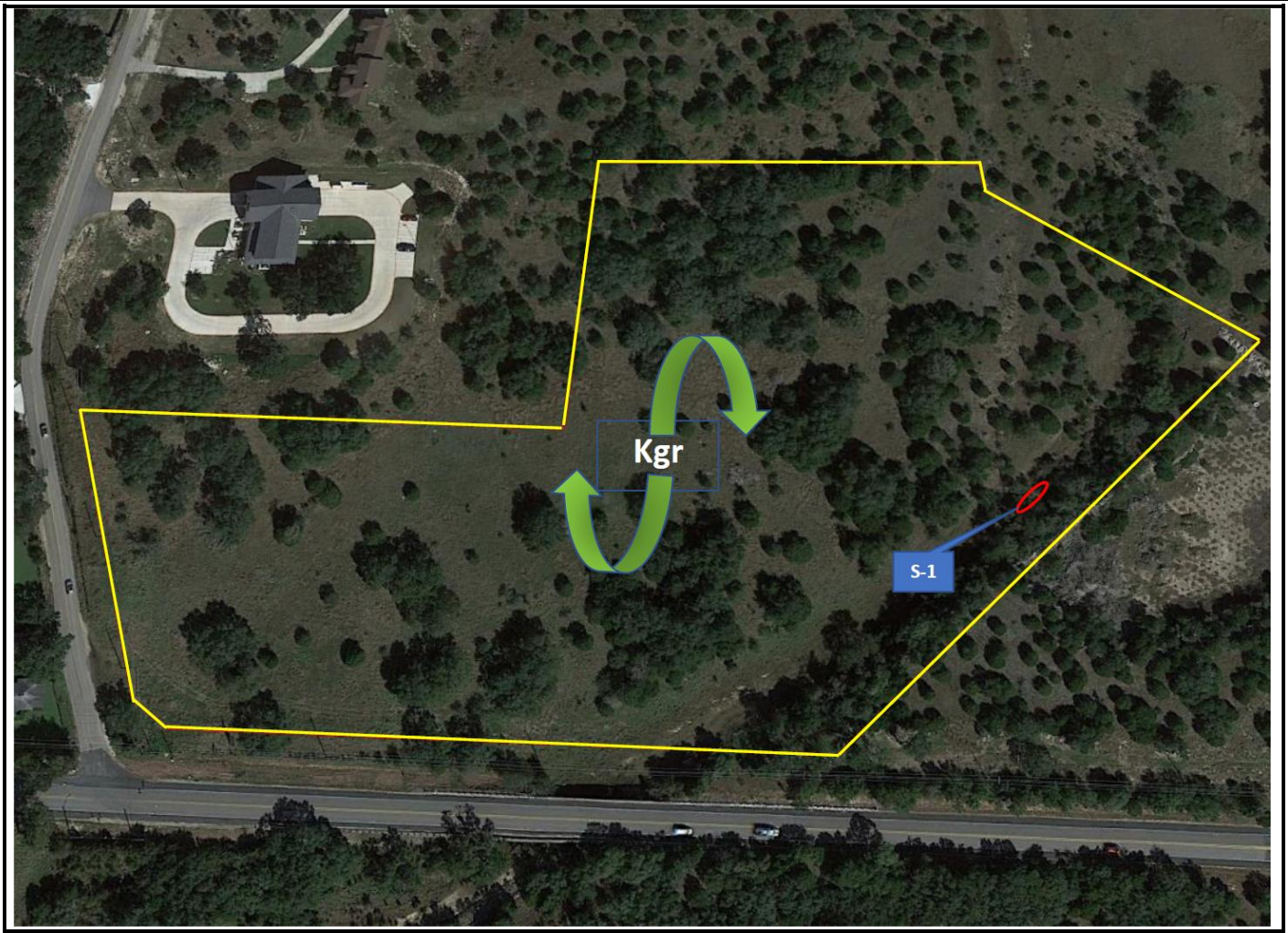
PROFESSIONAL GEOSCIENTIST
7/29/23



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PROJECT NAME:
Vintage Oaks at The Vineyards
Cranes Mill Residential Tract
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Comal County, Texas
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Geologic Feature Map

Key

Kgru- Lower Cretaceous Glen Rose Formation, Upper Member
Scale: 1”=175’

N

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: VOATV Cranes Mill Residential Tract

LOCATION			FEATURE CHARACTERISTICS												EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY
						X	Y	Z		10						<40	>40	<1.6	>1.6	
S-1	29-46-25.9	98-16-21.5	O	5	Kgru	110	15	3						10	15	X			X	drainage

* DATUM: _____

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
X	Other materials

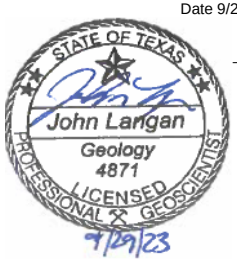
12 TOPOGRAPHY

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 9/29/23



TCEQ-0585-Table (Rev. 10-01-04)

1. View east from the southwest corner of the Vintage Oaks at the Vineyard Cranes Mill Single Family Tract located at the northeast corner of Highway 46 and Cranes Mill Road in Comal County, Texas. Highway 46 is on the right.

2. View northwest from the southwest corner of the subject tract.

3. View north from near the middle of the subject tract.

4. View east from near the middle of the subject tract.

5. View south from near the middle of the subject tract.

6. View west from near the middle of the subject tract.

7. View north along the western property line, to the west of the Fire Station, in the central portion of the tract.

8. View west along the north property line to the south of the Fire Station.

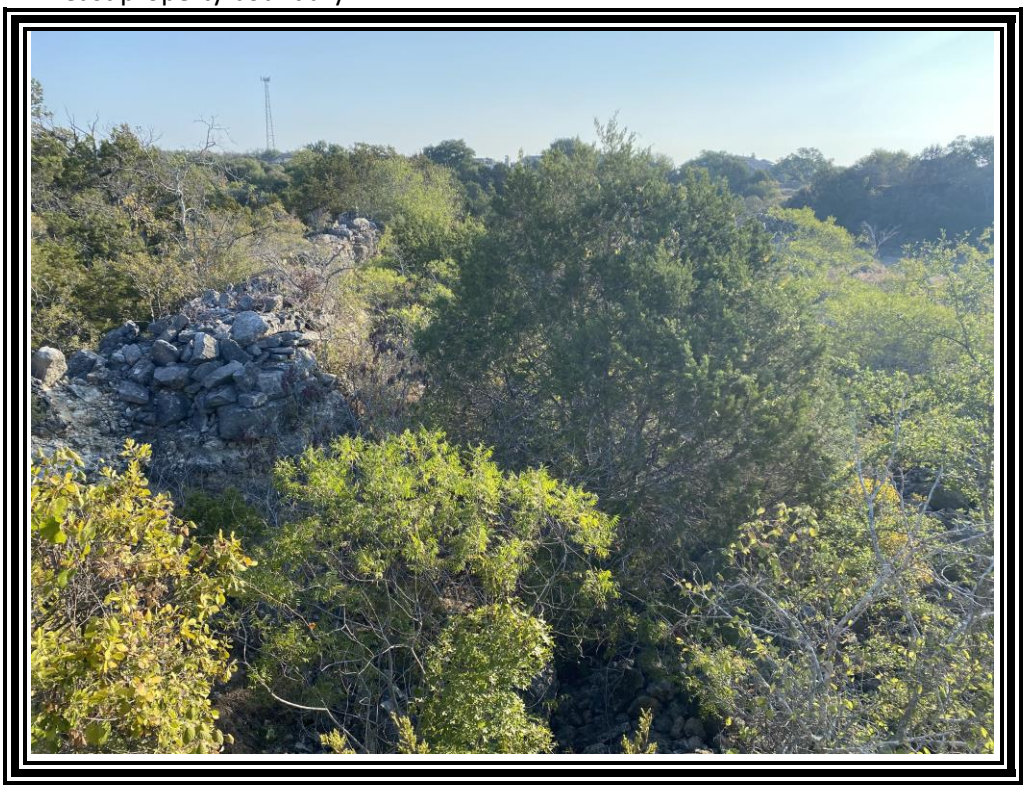
9. View of septic sprinkler near the property line, but off-site to the west, presumably associated with the Fire Station.

10. View of flagging marking the northwest corner to the west of the Fire Station.

11. View east along the north property line from the northwest corner to the west of the Fire Station.

12. View of fractured rock outcrop feature S-1 located on the east side of the site, in the Dry Comal Creek drainage.

13. View northeast of cliff edge of man-made quarry feature located adjacent to the east property boundary.



14. View of east of former quarry, note boulders and increasing vegetation.

15. View southwest along the southeast property line from the east corner.

16. View east of rock piles at the north end of the former quarry at the east corner of the site.

17. View north along the west property line from the southwest corner. Highway 46 is on the left.

18. View northeast of the site interior from the southwest corner of the site.

Soil Map—Comal and Hays Counties, Texas

Map Scale: 1:2,150 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

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

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

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

Soil Survey Area: Comal and Hays Counties, Texas
Survey Area Data: Version 19, Aug 24, 2022

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

Date(s) aerial images were photographed: Dec 10, 2020—Dec 17, 2020

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CrD	Comfort-Rock outcrop complex, 1 to 8 percent slopes	11.9	100.0%
Totals for Area of Interest		**11.9**	**100.0%**

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: Trevor Tast, P.E.

Date: 10/30/2023

Signature of Customer/Agent:

Regulated Entity Name: VOV Cranes Mill Single Family

Regulated Entity Information

1. The type of project is:

   ☒ Residential: Number of Lots:22
   ☐ Residential: Number of Living Unit Equivalents:_____
   ☐ Commercial
   ☐ Industrial
   ☐ Other:_____

2. Total site acreage (size of property):12.476

3. Estimated projected population:55

4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	48,000	÷ 43,560 =	1.10
Parking	48,149	÷ 43,560 =	1.11
Other paved surfaces	0	÷ 43,560 =	0
Total Impervious Cover	96,149	÷ 43,560 =	2.21

Total Impervious Cover 2.21 **÷ Total Acreage** 12.476 **X 100 =** 18**% 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 ÷ 43,560 Ft^2/Acre = _____ acres.

10. Length of pavement area: _____ feet.

    Width of pavement area: _____ feet.
    L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.
    Pavement area _____ acres ÷ R.O.W. area _____ acres 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:

_____% Domestic	0 Gallons/day
_____% Industrial	0 Gallons/day
_____% Commingled	0 Gallons/day
TOTAL gallons/day 0	

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 _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.
☐ Proposed.

16. ☒ 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. ☒ The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 60'.

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 Panel 48091C0245F

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

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

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

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

☐ The wells are not in use and have been properly abandoned.
☐ The wells are not in use and will be properly abandoned.
☐ The wells are in use and comply with 16 TAC §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. ☒ 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. ☒ 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.

TX2 Engineering
Firm F-20787
645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

WPAP Application - Attachment A

Factors Affecting Surface Water Quality

Potential sources of pollution that may be expected to affect the quality of storm water discharges from the site during construction include primarily suspended solids with examples as follows:

- Soil erosion due to clearing of site.
- Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle drippings.
- Hydrocarbons from asphalt paving.
- Trash and litter from construction workers and material wrappings.
- Tar, fertilizers, cleaning solvents, detergents, and petroleum-based products.

Potential sources of pollution that may be expected to affect the quality of storm water discharges from the site after development include:

- Oil, grease, fuel and hydraulic fluid contamination from vehicle drippings.
- Dirt and dust from vehicles.
- Trash and litter.

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WPAP Application - Attachment B

Volume And Character of Stormwater

The overall contributing drainage area for this project is 1249.44 acres. The project accepts runoff from adjacent properties to the north. All stormwater will be routed via overland sheet flow, and natural channels south towards the Dry Comal Creek at the southernmost point of the property. The stormwater runoff for the pre-project conditions are primarily across rocky soil, with native grasses, and dense canopy coverage. The site has an average slope ranging from 2% to 12%. Peak discharges were calculated using the SCS Method. Composite curve numbers were taken from the City of New Braunfels Drainage Criteria Manual. The existing site is considered to have an average composite curve number value of 87.87 consisting mostly of R-1/R-1A Single Family land. The proposed development will add 2.21 acres of impervious coverage to the existing watershed boundary. A composite curve number was calculated to determine the volume of stormwater discharged from the site after improvements are constructed.

Composite Curve Number - Existing Condition		
Cover Description	Area (ac)	Curve Number (Hydrologic Soil Group D)
Paved parking lots, roofs, driveways, etc. (excluding right of way)	0	98
Good condition (grass cover 75%)	12.476	80
R-1/R-1A Single Family	1261.916	87
Total	1249.44	87.87

Composite Curve Number - Proposed Condition		
Cover Description	Area (ac)	Curve Number (Hydrologic Soil Group D)
Paved parking lots, roofs, driveways, etc. (excluding right of way)	2.21	98
Good condition (grass cover 75%)	12.476	80
R-1/R-1A Single Family	1259.706	87
Total	1249.44	87.89

STORMWATER DISCHARGE			
STORM EVENT	PREDEVELOPMENT Q (cfs)	POSTDEVELOPMENT Q (cfs)	NET CHANGE (cfs)
2YR	1306.35	1306.35	0.00
10YR	2467.11	2467.11	0.00
25YR	3357.37	3357.37	0.00
100YR	5053.49	5053.49	0.00

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WPAP Application - Attachment C

Suitability Letter from Authorized Agent

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New Braunfels, TX 78130
816-510-9151

WPAP Application - Attachment D

Exception to the Required Geologic Assessment

Not Applicable

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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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: Trevor Tast, P.E.

Date: 10/30/2023

Signature of Customer/Agent:

Regulated Entity Name: VOV Cranes Mill Single Family

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: Dry Comal Creek

Temporary Best Management Practices (TBMPs)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ 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 Action

The following steps shall help reduce the stormwater impacts of leaks and spills:

The contractor shall 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 an 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. Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

More information on spill rules and appropriate responses is available on the TCEQ website at http://www.tnrcc.state.tx.us/enforcement/emergency_response.html

General:

- To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- Store hazardous materials and wastes in covered containers and protect form vandalism.
- Place a stockpile of spill cleanup materials where it shall be readily accessible.
- Train employees in spill prevention and cleanup.
- Designate responsible individuals to oversee and enforce control measures.
- Spills should be covered and protected from stormwater runon during rainfall to the extent that it doesn't compromise clean up activities.
- Do not bury or wash spills with water.
- 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.
- 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.
- Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- 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.
- Keep waste storage areas clean, well organized, and equipment 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:

- Spills shall be cleaned immediately.
- Use a rag for small spills on paved surfaces, a damp mop for general mop for general cleanup, and absorbent material for larger spills. All hazardous materials must be disposed of as hazardous waste.

- Never hose down or bury dry material spills. Clean up as much as the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills:

- 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.
- Use absorbent material on small spills rather than hosing down or burying the spill. Absorbent material should be promptly removed and disposed of properly.
- Follow the practice below for a minor spill:
- Contain the spread of the spill.
- Recover spilled material.
- 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:

- Contain spread of the spill
- Notify the project foreman immediately.
- 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.
- If the spill occurs in dirt areas, immediately contain the spill be constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- 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:

- 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.
- 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.
- Notification should first be made by telephone and followed up with a written report.
- 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.
- Other agencies which may need to be consulted include, but are not limited to, the County Sheriff Office, Fire Departments, etc.

Attachment B

Potential Sources of Contamination

- **Source**: Construction Equipment and other Vehicle leaks: Oil, grease, fuel and hydraulic fluids
    - **Preventative measure**: Lubrication and fueling shall be performed in a designated area. This area shall be monitored daily for contamination.

- **Source**: Miscellaneous trash and litter form construction workers.
    - **Preventative measure**: Designated containers shall be located on site for trash disposal.

- **Source**: Construction debris.
    - **Preventative measure**: Debris shall be collected weekly and deposited in on site bins for offsite disposal. Situations requiring immediate attention shall be handled on a case by case basis.

- **Source**: Asphalt products.
    - **Preventative measure**: After placement of asphalt, emulsion or coatings, the contractor shall be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor shall maintain standby personnel and equipment to maintain and asphalt wash-off should and unexpected rain occurs. The contractor shall be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain.

- **Source**: Tar, fertilizers, cleaning solvents, detergents, and petroleum-based products.
    - **Preventative measure**: The contractor shall be responsible for immediate cleanup should an unexpected rain occur. Debris shall be collected weekly and deposited in on site bins for offsite disposal. Situations requiring immediate attention shall be handled on a case by case basis.

Attachment C

Sequence of Major Activities

1. Install erosion and sedimentation controls as indicated on the construction plan(s) and as directed by agencies having authority in the project area.
2. Construct, proposed development site work included but not limited to, pavement, and utilities.
3. Install landscaping, vegetated blankets, or hydro-mulch to exposed areas
4. Re-vegetate disturbed areas
5. Remove temporary erosion and sedimentation controls
6. Vertical construction.

Construction entrances for site shall be accessed from Herbelin Road.

Activity	Disturbed Acreage	Erosion Control Measures
Site clearing, site work, final construction	5.82 Acres	Construction entrance to be installed prior to site clearing. Silt Fence to be placed downstream of disturbed soils prior to site clearing. Revegetation of disturbed soils shall occur after site work is completed.

Attachment D

Temporary Best Management Practices and Measures

All Temporary BMPs shall be installed prior to the beginning of site preparation and construction activities as per the Storm Water Pollution Prevention Plan. The TBMPs shall remain in place and shall be maintained until all construction has ceased and a perennial vegetative cover with a density of 70 percent has been established.

a) Description of BMPs and measures to prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site: Stabilized Construction Entrance, Silt fences and rock berms shall be utilized for these purposes.

b) Description of BMPs and measures to 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: Stabilized Construction Entrance, Silt fences and rock berms shall be utilized for these purposes.

c) Surface stream and feature protection: A 50-foot radius natural buffer zone adjacent to and upgradient of any sensitive features shall remain undisturbed so that rainfall may continue to enter the feature. The natural vegetated areas shall ensure that pre-development stormwater quantity and quality shall continue to recharge the aquifer via the feature. Rock berms shall be placed downgradient of all construction activities so that potentially contaminated stormwater may be treated before leaving the sited and entering downstream surface water.

d) Naturally occurring sensitive features protection: No construction shall occur within a 50-foot radius of naturally-occurring sensitive features. The vegetative buffer zone shall serve as both TMBP and BMP for the sensitive features. In the case that construction activities occur upgradient of a sensitive feature (greater than the 50-foot radius) the disturbed soils shall be protected from erosion by silt fences as outlined above.

Attachment E

Request to Temporarily Seal a Feature

NOT APPLICABLE

Attachment F

Structural Practices

The structural practices that shall limit runoff discharge of pollutants from exposed areas of the site shall be the use of a stabilized construction entrance and silt fence to prevent the excavated material from leaving the site.

Attachment G

Drainage Area Map

Not Applicable

There are no areas greater than 10 acres within a common drainage are 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.

Attachment H

Temporary Sediment Pond(s) Plans and Calculations

Temporary sediment basins are not required because no more than 10 acres of land draining to a common drainage point. Silt fences shall be used to limit pollutant discharges prior to becoming concentrated channel flow.

Attachment I

Inspection and Maintenance for BMPs

The BMPs for the construction of this project shall be the use of rock berms and silt fencing. The following inspection and maintenance procedures shall be implemented:

1. Stabilized Construction Entrance/Exit, Silt fencing and rock berms must be in place prior to the start of construction and shall remain in place until construction has been complete and the site stabilized from further erosion.

2. The contractor shall inspect the rock berms and silt fencing at least once a week and within 24 hours of a storm of 0.5 inches or more in depth. The contractor shall repair or replace any damaged TBMPs. The contractor shall correct damage or deficiencies as soon as practical after the inspection but no later than 7 days after the inspection.
   a. Rock Berms:
      1. Contractor shall remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt in an approval manner that shall not cause any additional siltation.
      2. The berm should be replaced when the structures ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
      3. Inspection should be made weekly and after each rainfall by the responsible party.
      4. For installations in streambeds, additional daily inspections should be made.
      5. Repair any loose wire sheathing
      6. The berm should be reshaped as needed during inspection
      7. The rock berm should be left in place until all upstream areas are stabilized and accumulated silt removed.
   b. Temporary Construction Entrance/Exit:
      1. All sediment spilled, dropped, washed or tracked onto public right-of-way
         should be removed immediately by contractor.
      2. When necessary, wheels should be cleaned to remove sediment prior to
         entrance onto right-of-way.
      3. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
      4. The entrance should be maintained in a condition, which shall prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediments.
      5. All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

c. For Silt Fence:
    1. Remove sediment when buildup reaches 6 inches.
    2. When construction is complete, the sediment should be disposed of in a manner that shall not cause additional siltation and the prior location if the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.
    3. Inspect all fencing weekly and after any rainfall
    4. Replace any torn fabric or install a second line of fencing parallel to the torn section
    5. 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 shall provide equal protection, but shall not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.

3. Contractor shall place trench excavation on the upgradient side of the trench.

4. All soil, sand, gravel, and excavated material stockpiled on-site shall have appropriately sized silt fencing placed upgradient and down gradient.

5. The contractor shall keep a record of the weekly inspections, noting the condition of the rock berms, silt fencing and construction entrance and any corrective action taken to maintain the erosion control structures. In addition to the inspection and maintenance reports, the operator should keep records of the construction activity on-site, in particular, the following information should be kept.

    a. The dates when major grading activities occur in a particular area.

    b. The dates when construction activities cease in an area, temporarily or permanently.

    c. The dates when an area is stabilized, temporarily or permanently.

    d. Records to be maintained in SWPPP.

Attachment J

Schedule of Interim and Permanent Soil Stabilization Practices

The schedule of interim and permanent soil stabilization shall be as follows:

1. Once construction of the project has commenced, the construction activity is planned to continue until the project is complete. The water, electrical, cable TV and telephone trenches shall be excavated. The trenches shall then be re-excavated and the water, electrical, cable TV and telephone lines shall be installed. This work is intended to continue until all the lines are installed. The utility lines are located within the project boundaries as shown on the site plan. As soon as the underground utilities are installed, the road base shall be installed and compacted providing the interim soil stabilization for the paved area and the permanent soil stabilization for the parking areas. Once the individual residential buildings are built and landscaped this shall provide permanent soil stabilization for the building areas.

2. Much of the excavation for this project shall be in solid rock, helping to minimize the amount of loose soil which has the potential to become suspended in runoff and washed downstream.

3. 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 temporary or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease in precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities shall be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

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: Trevor Tast, P.E.

Date: 10/30/2023

Signature of Customer/Agent

Regulated Entity Name: VOV Cranes Mill Single Family

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.

   ☒ N/A

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 multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

   ☐ **Attachment A - 20% or Less Impervious Cover Waiver**. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
   ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
   ☒ The site will not be used for multi-family residential developments, schools, or small business sites.

6. ☒ **Attachment B - BMPs for Upgradient Stormwater**.

☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.

☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.

☒ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

7. ☒ **Attachment C - BMPs for On-site Stormwater**.

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

☒ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.

8. ☐ **Attachment D - BMPs for Surface Streams**. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.

☒ N/A

9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.

☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.

☐ **Attachment E - Request to Seal Features**. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.

10. ☒ **Attachment F - Construction Plans**. All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:

☐ Design calculations (TSS removal calculations)
☐ TCEQ construction notes
☐ All geologic features
☐ All proposed structural BMP(s) plans and specifications

☒ N/A

11. ☐ **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan**. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:

    ☐ Prepared and certified by the engineer designing the permanent BMPs and measures
    ☐ Signed by the owner or responsible party
    ☐ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
    ☐ A discussion of record keeping procedures

    ☒ N/A

12. ☐ **Attachment H - Pilot-Scale Field Testing Plan**. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

    ☒ N/A

13. ☐ **Attachment I -Measures for Minimizing Surface Stream Contamination**. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality 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. ☐ 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

TX2 Engineering
Firm F-20787
645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

Permanent Stormwater - Attachment A

20% or Less Impervious Cover Waiver

Not Applicable

TX2 Engineering
Firm F-20787
645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

Permanent Stormwater - Attachment B

BMPs For Upgradient Stormwater

No BMP’s are required because the proposed site use is low density single-family residential development.

TX2 Engineering
Firm F-20787
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816-510-9151

Permanent Stormwater - Attachment C

BMPs For On-Site Stormwater

No BMP's are required because the proposed site use is low density single-family residential development.

TX2 Engineering
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645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

Permanent Stormwater - Attachment D

BMPs For Surface Streams

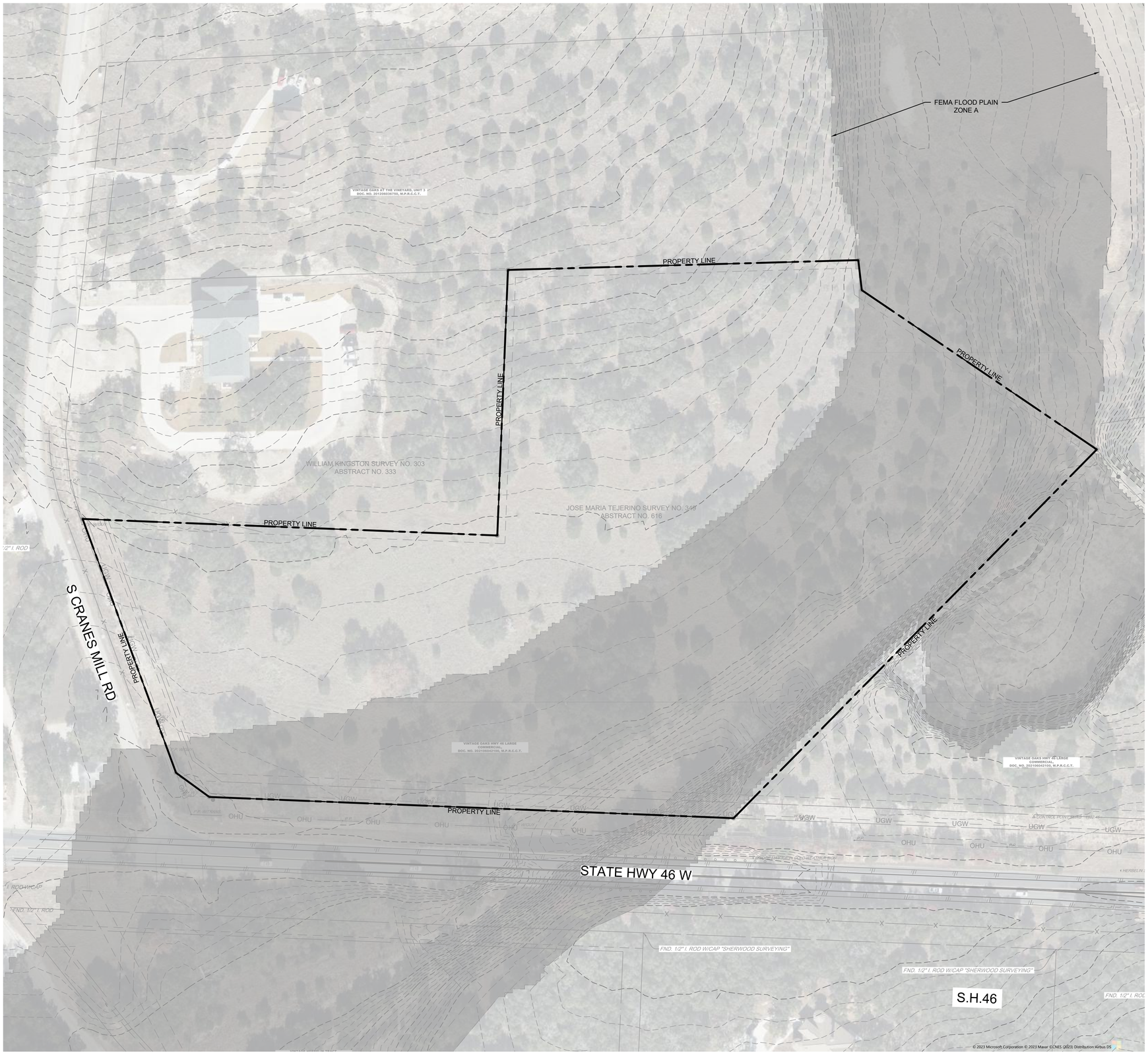
Not Applicable

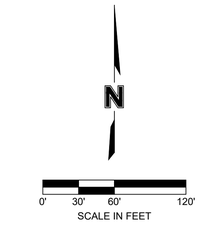
TX2 Engineering
Firm F-20787
645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

Permanent Stormwater - Attachment E

Request to Seal Features

Not Applicable





LEGEND

- PROPERTY LINE
- 610 EXISTING MAJOR CONTOUR
- 611 EXISTING MINOR CONTOUR

NOTES:

1. ALL UTILITY SYMBOLS SHOWN REPRESENT APPROXIMATE LOCATIONS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE APPROPRIATE AGENCY'S STANDARD SPECIFICATIONS AND INSTALLATION DETAILS FOR ACTUAL LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE TEXAS ONE CALL CENTER, AND FIELD VERIFY EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SURVEY BY SUMMIT GEOMATICS, INC.

WARNING - OVERHEAD POWER LINES

CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF OVERHEAD POWER LINES.

KNOW WHAT'S BELOW.
811 BEFORE YOU DIG.

TX2 ENGINEERING
FIRM #: 20787

CONTACT:

645 FLORAL AVE, STE C
NEW BRAUNFELS, TX 78130

TEL: (830) 327-1235

STATE OF TEXAS
TREVOR N. TAST
124101
LICENSED
PROFESSIONAL ENGINEER

10/31/2023

EXISTING SITE PLAN

VINTAGE OAKS AT THE VINEYARD
CRANES MILL SINGLE FAMILY
COMAL COUNTY, TX 78132 YR: 2023

REVISIONS

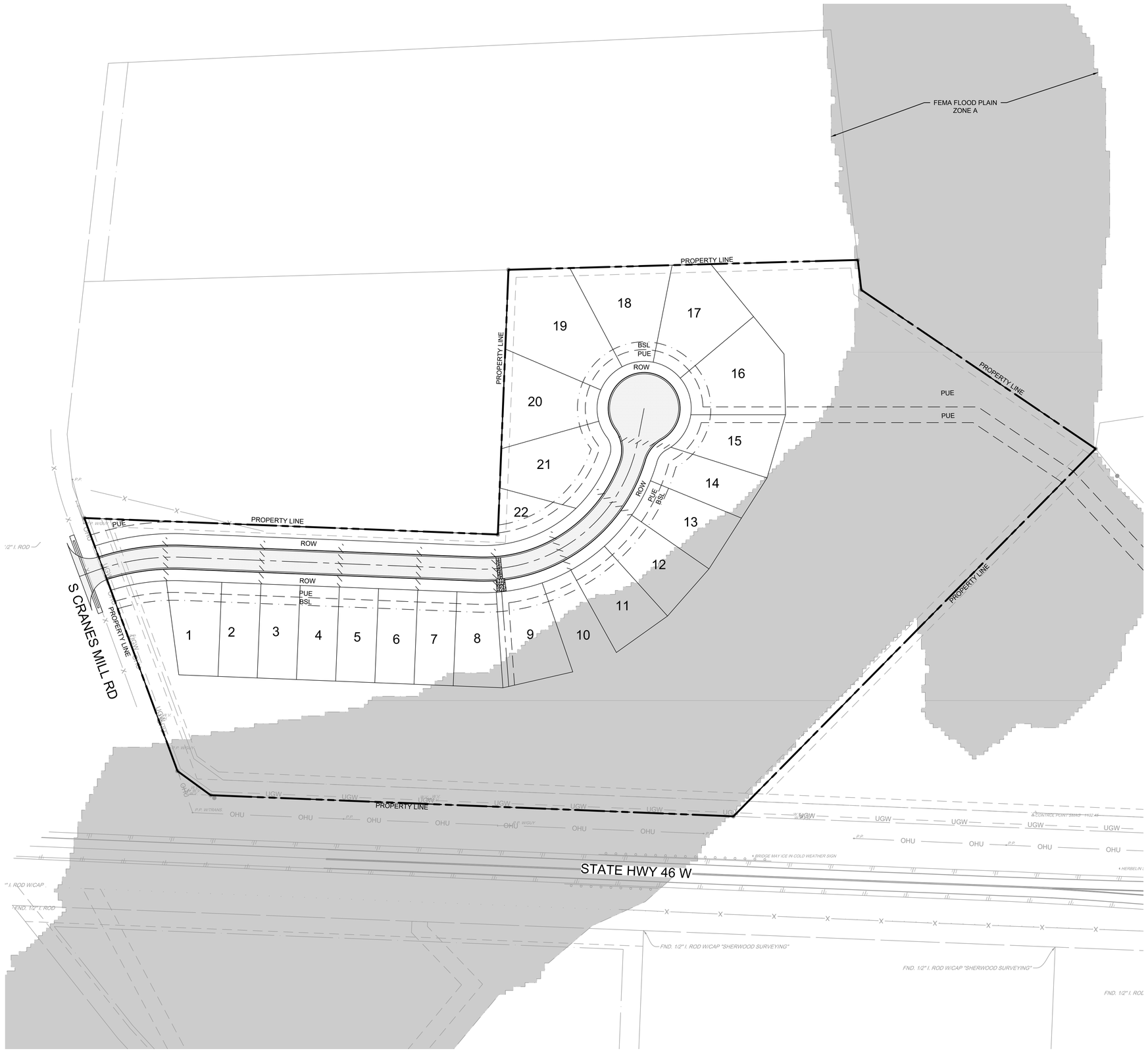
REV.	DATE	DESCRIPTION	BY

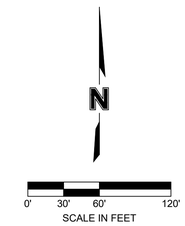
DRAWN BY:	TNT
QA/QC BY:	TNT
PROJECT NO.:	###-####
PERMIT #:	

C2.0

SHEET

DWG: Z:\023-0023 Vintage Oaks at the Vineyard - Cranes Mill Single Family\40-Design\AutoCAD\Final Plans\Sheets\LDVP\023-0023-ESITE.dwg USER: MichaelAvery
DATE: Oct 31, 2023 8:57am XREFS: 023-0023 EBASE 023-0023 PBASE TBLK_24X36





LEGEND

- PROPERTY LINE
- BSL — BUILDING SETBACK LINE
- PUE — PUBLIC UTILITY EASEMENT
- ROW — RIGHT OF WAY
- PROPOSED CENTERLINE
- PROPOSED LOT LINE
- PROPOSED CURB AND GUTTER
- PROPOSED LIGHT DUTY ASPHALT

NOTES:

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STATE OF TEXAS
TREVOR N. TAST
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PROFESSIONAL ENGINEER

10/31/2023

PROPOSED SITE PLAN

VINTAGE OAKS AT THE VINEYARD
CRANES MILL SINGLE FAMILY
COMAL COUNTY, TX 78132 YR: 2023

REVISIONS

REV.	DATE	DESCRIPTION	BY

DRAWN BY: TNT
QA/QC BY: TNT
PROJECT NO.: ###-####
PERMIT #:

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SHEET

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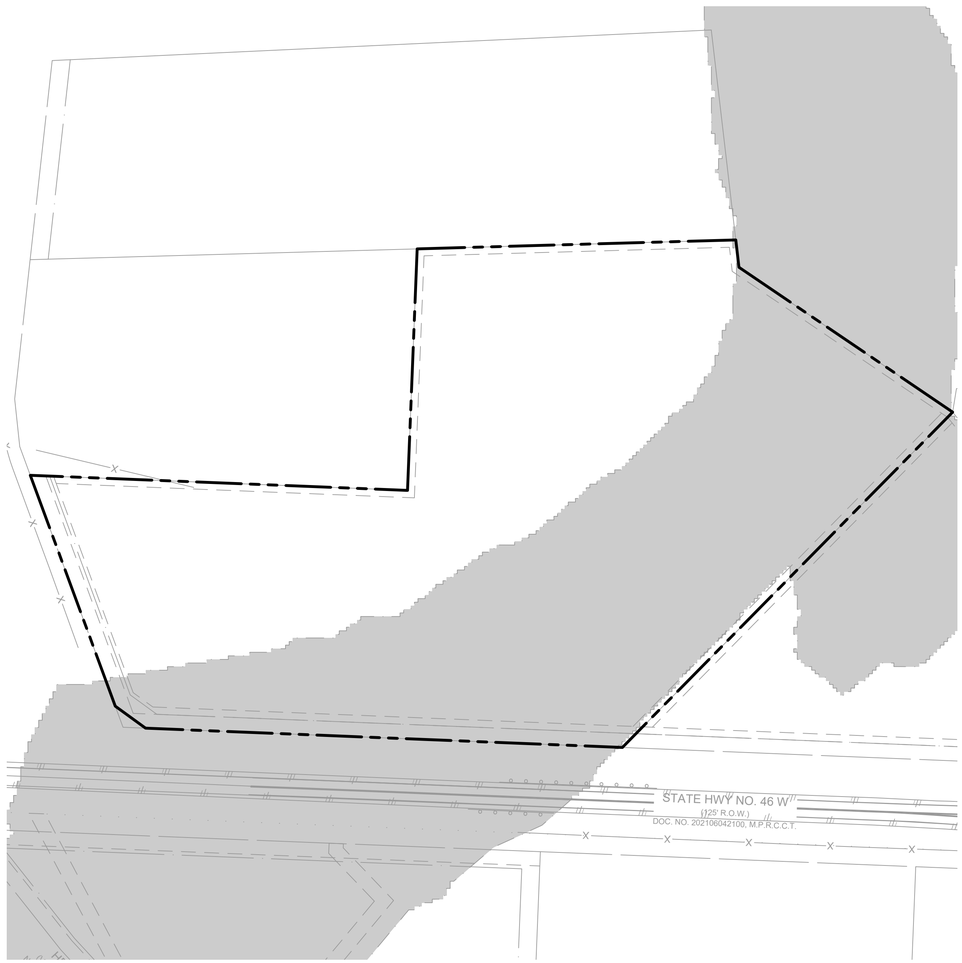
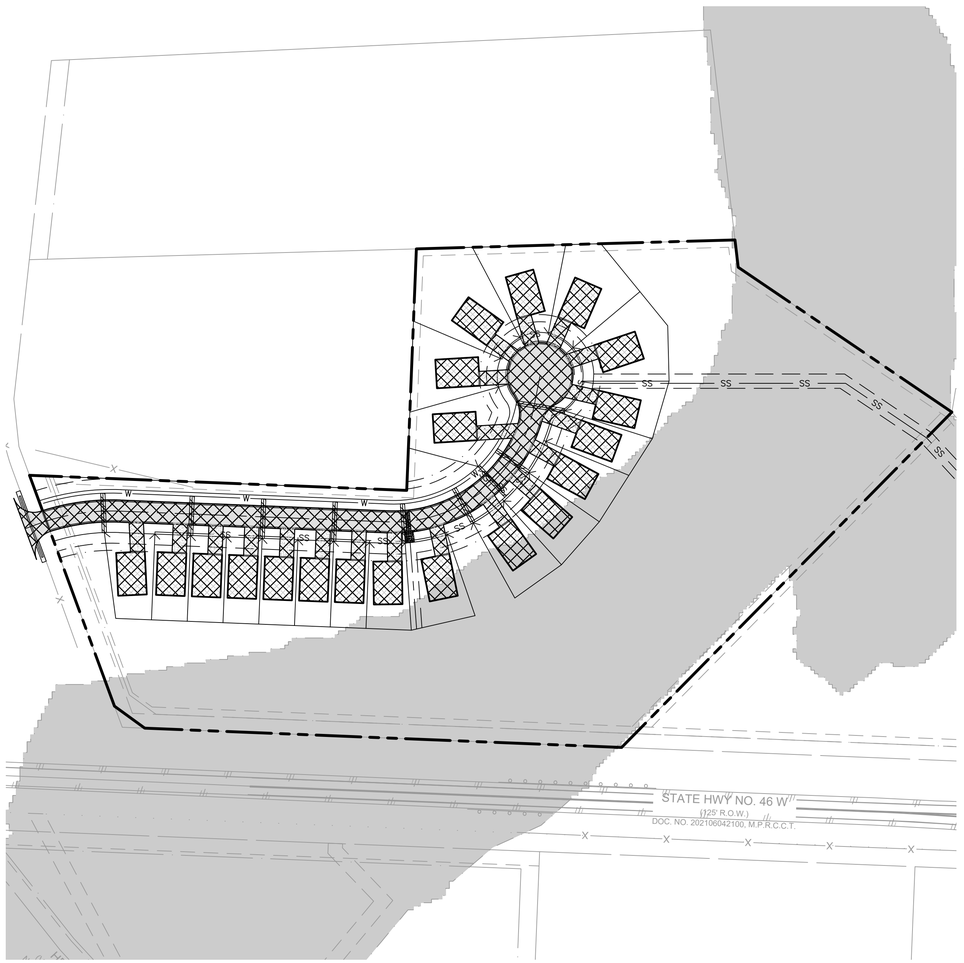
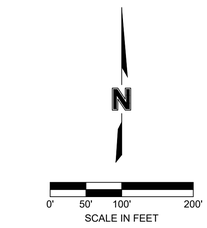
DATE: Oct 31, 2023 9:27am XREFS: 023-0023 EBASE 023-0023 PBASE TBLK_24X36







LEGEND

PROPERTY LINE

IMPERVIOUS COVER

NOTES:

1. IMPERVIOUS COVER IS SHOWN GRAPHICALLY FOR ALL PAVEMENTS, ROOFTOPS, OR OTHER IMPERVIOUS SURFACES FOR BOTH THE EXISTING CONDITIONS AS SURVEYED AND PROPOSED CONDITIONS.
2. THIS PLAN SHEET IS PROVIDED FOR CONFIRMATION OF DRAINAGE REPORT TYPE AND CALCULATION OF DRAINAGE COEFFICIENTS.
   2.1. DRAINAGE REPORT REQUIRED: TYPE 2

EXISTING SITE		
-	ACREAGE	SQFT
TOTAL ACREAGE	12.48 AC	-
PERVIOUS COVERAGE	12.48 AC	-
IMPERVIOUS COVERAGE	0.00 AC	0.00 SQFT
IMPERVIOUS %	0.00%	-

PROPOSED SITE		
-	ACREAGE	SQFT
TOTAL ACREAGE	12.48 AC	-
PERVIOUS COVERAGE	10.27 AC	-
IMPERVIOUS COVERAGE	2.21 AC	96149.36 SQFT
IMPERVIOUS %	17.69%	-

IMPERVIOUS AREA SUMMARY		
-	ACREAGE	SQFT
EXISTING CONDITION	0.00 AC	-
PROPOSED CONDITION	2.21 AC	-
NET INCREASE	2.21 AC	96149.36 SQFT

NOTE: PROPOSED IMPROVEMENTS WILL INCREASE OVERALL IMPERVIOUS COVER FOR THE SITE

TX2 ENGINEERING
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10/31/2023

PROPOSED IMPERVIOUS COVER

VINTAGE OAKS AT THE VINEYARD
CRANES MILL SINGLE FAMILY
COMAL COUNTY, TX 78132 YR: 2023

REVISIONS

REV.	DATE	DESCRIPTION	BY

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QA/QC BY: TNT
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811 KNOW WHAT'S BELOW. 811 BEFORE YOU DIG.

C4.0

SHEET

DWG: Z:\023-0023 Vintage Oaks at the Vineyard - Cranes Mill Single Family\40-Design\AutoCAD\Final Plans\Sheets\LDVP\023-0023-IMP-COV.dwg USER: MichaelAvery
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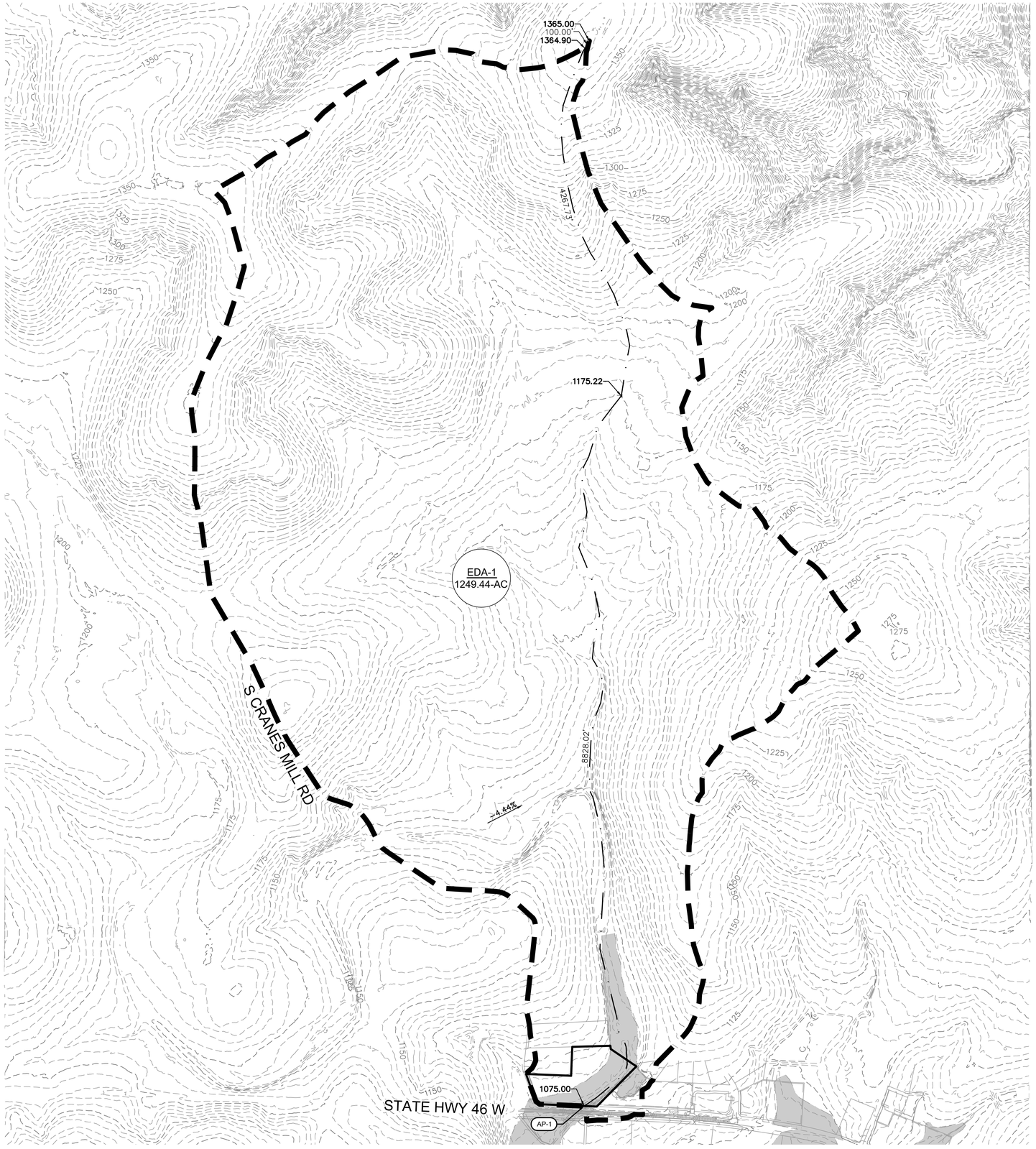

N

0' 300' 600' 1200'

SCALE IN FEET

LEGEND

- PROPERTY LINE
- 610 EXISTING MAJOR CONTOUR
- 611 EXISTING MINOR CONTOUR
- DRAINAGE AREA
- TIME OF CONCENTRATION PATH

NOTES:

1. ALL UTILITY SYMBOLS SHOWN REPRESENT APPROXIMATE LOCATIONS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE APPROPRIATE AGENCY'S STANDARD SPECIFICATIONS AND INSTALLATION DETAILS FOR ACTUAL LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE TEXAS ONE CALL CENTER, AND FIELD VERIFY EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

KEYNOTES (XX-X)

(AP-X) ANALYSIS POINT

WARNING - OVERHEAD POWER LINES

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10/31/2023

EXISTING DRAINAGE PLAN

VINTAGE OAKS AT THE VINEYARD
CRANES MILL SINGLE FAMILY
COMAL COUNTY, TX 78132 YR: 2023

REVISIONS

REV.	DATE	DESCRIPTION	BY

DRAWN BY:	TNT
QA/QC BY:	TNT
PROJECT NO.:	###-####
PERMIT #:	

C8.0

SHEET

DWG: Z:\023-0023 Vintage Oaks at the Vineyard - Cranes Mill Single Family\40-Design\AutoCAD\Final Plans\Sheets\LDVP\023-0023-EDRAIN.dwg USER: MichaelAvery
DATE: Oct 31, 2023 9:01am XREFS: 023-0023 EBASE 023-0023 PBASE TBLK_24X36

Composite Curve Number - Existing Condition		
Cover Description	Area (ac)	Curve Number (Hydrologic Soil Group D)
Paved parking lots, roofs, driveways, etc. (excluding right of way)	0	98
Good condition (grass cover 75%)	12.476	80
R-1/R-1A Single Family	1261.916	87
Total	1249.44	87.87

Time of Concentration (ToC) Calculations

Assumptions:	
Mannings n (Sheet):	0.15
Mannings n (Channel/ Storm):	0.045
Sheet Flow Length (Max)	100 L.F
ToC (Min.)	10 Min
P_2 = 2-Year, 24-Hour Storm	3.34 in.

$$T_{(t\ \_\ Sheet)} = \frac{0.007\ (n\ *L)^{0.8}}{(P_2{}^{0.5})(S^{0.4})} * 60$$

Paved: $T_{(t\ \_\ Shall)} = \frac{L}{(60\ *20.3282\ *S^{0.5}}$

UnPaved: $T_{(t\ \_\ Shall)} = \frac{L}{(60\ *16.1345\ *S^{0.5}}$

$$T_{(t\ \_\ Channel)} = \sum(\frac{L_i}{60Vi})$$

Drainage Basin ID	Sheet					Shallow Concentrated Flow						Channel or Storm Drain Flow								Total
	Elev. Up	Elev. Down	Length (L) (ft)	Slope (S) (%)	$T_{(t\text{-}Sheet)}$ (min.)	Elev. Up	Elev. Down	Length (L) (ft)	Slope (S) (%)	Paved/ UnPaved	$T_{(t\text{-}Shall.)}$ (min.)	Elev. Up	Elev. Down	Length (L) (ft)	Slope (S) (%)	X-Sectional Area (ft^2)	Wetted Perimeter (ft)	Velocity (ft/s)	$T_{(t\text{-}Chan.)}$ (min.)	ToC (min.)
EDA1	1365.00	1364.90	100	0.10%	**31.79**	1364.90	1175.22	4267.73	4.44%	UnPaved	**20.91**	1175.22	1075.00	8828.02	1.14%	25	25	3.52	**41.82**	**94.52**

TX2 ENGINEERING
FIRM #: 20787

CONTACT:

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NEW BRAUNFELS, TX 78130

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STATE OF TEXAS
TREVOR N. TAST
124101
LICENSED
PROFESSIONAL ENGINEER

10/31/2023

EXISTING DRAINAGE CALCULATIONS

VINTAGE OAKS AT THE VINEYARD
CRANES MILL SINGLE FAMILY
COMAL COUNTY, TX 78132 YR: 2023

REVISIONS

REV.	DATE	DESCRIPTION	BY

DRAWN BY: TNT
QA/QC BY: TNT
PROJECT NO.: ###-####
PERMIT #:

C8.1
SHEET

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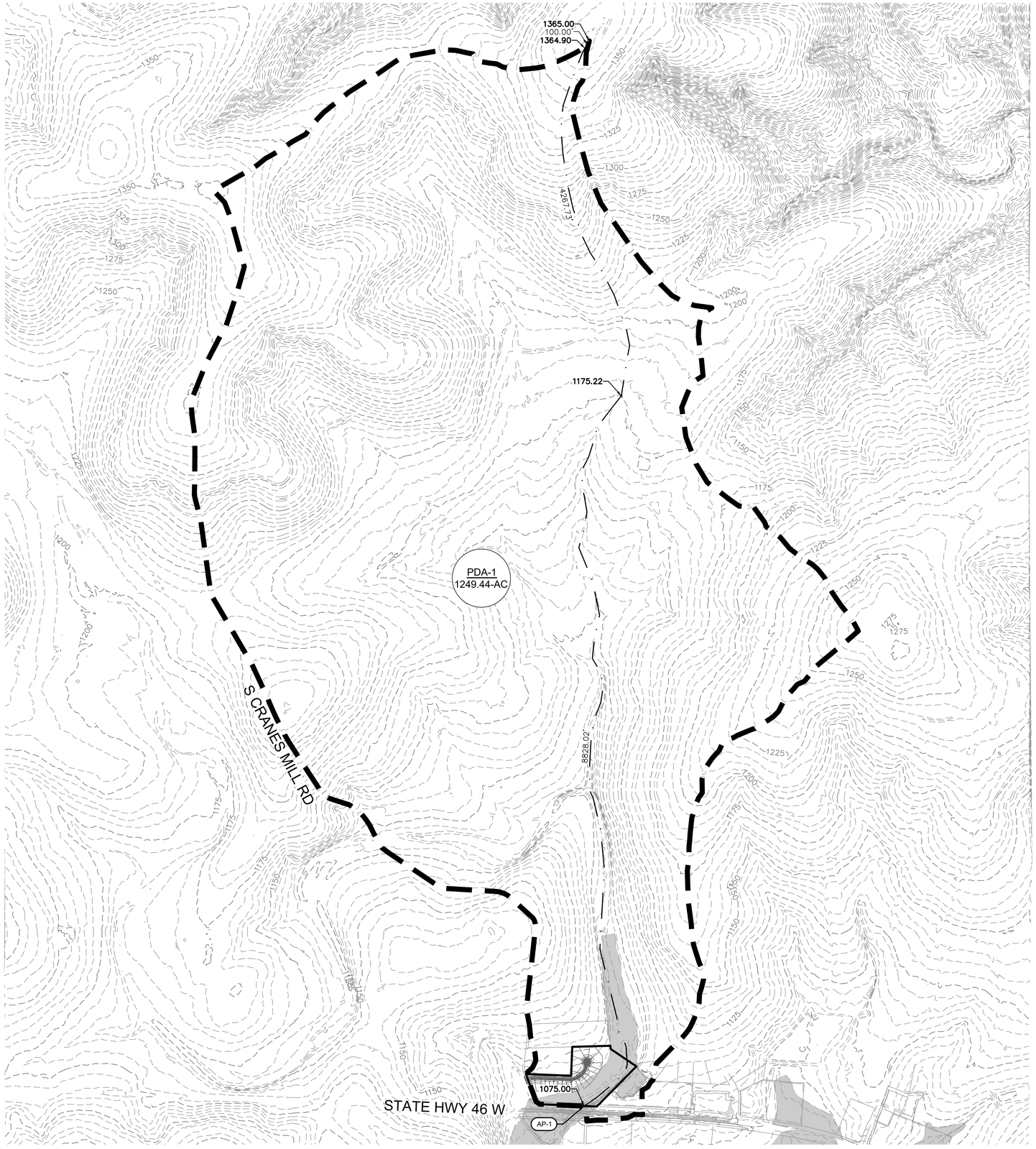
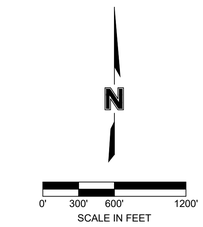
DATE: Oct 31, 2023 9:01am XREFS: 023-0023 EBASE 023-0023 PBASE TBLK_24X36





LEGEND

- PROPERTY LINE
- 610 EXISTING MAJOR CONTOUR
- 611 EXISTING MINOR CONTOUR
- DRAINAGE AREA
- TIME OF CONCENTRATION PATH

NOTES:

1. ALL UTILITY SYMBOLS SHOWN REPRESENT APPROXIMATE LOCATIONS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE APPROPRIATE AGENCY'S STANDARD SPECIFICATIONS AND INSTALLATION DETAILS FOR ACTUAL LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE TEXAS ONE CALL CENTER, AND FIELD VERIFY EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

KEYNOTES (XX-X)

(AP-X) ANALYSIS POINT

WARNING - OVERHEAD POWER LINES

CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF OVERHEAD POWER LINES.

TX2 ENGINEERING
FIRM #: 20787

CONTACT:

645 FLORAL AVE, STE C
NEW BRAUNFELS, TX 78130

TEL: (830) 327-1235

STATE OF TEXAS
TREVOR N. TAST
124101
LICENSED
PROFESSIONAL ENGINEER

10/31/2023

PROPOSED DRAINAGE PLAN

VINTAGE OAKS AT THE VINEYARD
CRANES MILL SINGLE FAMILY
COMAL COUNTY, TX 78132 YR: 2023

REVISIONS

REV.	DATE	DESCRIPTION	BY

DRAWN BY:	TNT
QA/QC BY:	TNT
PROJECT NO.:	###-####
PERMIT #:	

KNOW WHAT'S BELOW.
811 BEFORE YOU DIG.

C9.0

SHEET

DWG: Z:\023-0023 Vintage Oaks at the Vineyard - Cranes Mill Single Family\40-Design\AutoCAD\Final Plans\Sheets\LDVP\023-0023-PDRAIN.dwg USER: MichaelAvery
DATE: Oct 31, 2023 9:02am XREFS: 023-0023 EBASE 023-0023 PBASE TBLK_24X36

Composite Curve Number - Existing Condition		
Cover Description	Area (ac)	Curve Number (Hydrologic Soil Group D)
Paved parking lots, roofs, driveways, etc. (excluding right of way)	0	98
Good condition (grass cover 75%)	12.476	80
R-1/R-1A Single Family	1261.916	87
Total	1249.44	87.87

Composite Curve Number - Proposed Condition		
Cover Description	Area (ac)	Curve Number (Hydrologic Soil Group D)
Paved parking lots, roofs, driveways, etc. (excluding right of way)	2.21	98
Good condition (grass cover 75%)	12.476	80
R-1/R-1A Single Family	1259.706	87
Total	1249.44	87.89

STORMWATER DISCHARGE			
STORM EVENT	PREDEVELOPMENT Q (cfs)	POSTDEVELOPMENT Q (cfs)	NET CHANGE (cfs)
2YR	1306.35	1306.35	0.00
10YR	2467.11	2467.11	0.00
25YR	3357.37	3357.37	0.00
100YR	5053.49	5053.49	0.00

Time of Concentration (ToC) Calculations

Assumptions:	
Mannings n (Sheet):	0.15
Mannings n (Channel/ Storm):	0.045
Sheet Flow Length (Max)	100 L.F
ToC (Min.)	10 Min
P_2 = 2-Year, 24-Hour Storm	3.34 in.

$$T_{(t\ \_\ Sheet)} = \frac{0.007\ (n\ *\ L)^{0.8}}{(P_2^{0.5})(S^{0.4})} * 60$$

Paved: $T_{(t\ \_\ Shall)} = \frac{L}{(60 * 20.3282 * S^{0.5}}$

UnPaved: $T_{(t\ \_\ Shall)} = \frac{L}{(60 * 16.1345 * S^{0.5}}$

$$T_{(t\ \_\ Channel)} = \sum(\frac{L_i}{60Vi})$$

Drainage Basin ID	Sheet					Shallow Concentrated Flow						Channel or Storm Drain Flow								Total
	Elev. Up	Elev. Down	Length (L) (ft)	Slope (S) (%)	$T_{(t\ -Sheet)}$ (min.)	Elev. Up	Elev. Down	Length (L) (ft)	Slope (S) (%)	Paved/ UnPaved	$T_{(t\ -Shall.)}$ (min.)	Elev. Up	Elev. Down	Length (L) (ft)	Slope (S) (%)	X-Sectional Area (ft^2)	Wetted Perimeter (ft)	Velocity (ft/s)	$T_{(t\ -Chan.)}$ (min.)	ToC (min.)
PDA1	1365.00	1364.90	100	0.10%	**31.79**	1364.90	1175.22	4267.73	4.44%	UnPaved	**20.91**	1175.22	1075.00	8828.02	1.14%	25	25	3.52	**41.82**	**94.52**

TX2 ENGINEERING
FIRM #: 20787

CONTACT:

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NEW BRAUNFELS, TX 78130

TEL: (830) 327-1235

STATE OF TEXAS
TREVOR N. TAST
124101
LICENSED
PROFESSIONAL ENGINEER

10/31/2023

PROPOSED DRAINAGE CALCULATIONS

VINTAGE OAKS AT THE VINEYARD
CRANES MILL SINGLE FAMILY
COMAL COUNTY, TX 78132 YR: 2023

REVISIONS

REV.	DATE	DESCRIPTION	BY

DRAWN BY: TNT
QA/QC BY: TNT
PROJECT NO.: ###-####
PERMIT #:

C9.1
SHEET

KNOW WHAT'S BELOW.
811 BEFORE YOU DIG.

DWG: Z:\023-0023 Vintage Oaks at the Vineyard - Cranes Mill Single Family\40-Design\AutoCAD\Final Plans\Sheets\LDVP\023-0023-PDRAIN.dwg USER: MichaelAvery
DATE: Oct 31, 2023 9:02am XREFS: 023-0023 EBASE 023-0023 PBASE TBLK_24X36

N

0' 30' 60' 120'

SCALE IN FEET

LEGEND

- PROPERTY LINE
- RIGHT OF WAY
- P—OH — EXISTING OVERHEAD POWER
- UGE — EXISTING UNDERGROUND POWER
- T — EXISTING TELPHONE CONDUIT
- CATV — EXISTING CABLE TELEVISION CONDUIT
- FO — EXISTING FIBER OPTIC CONDUIT
- G — EXISTING NATURAL GAS SERVICE
- FP — EXISTING FIRE PROTECTION SERVICE
- W — EXISTING WATER SERVICE
- SS — EXISTING SANITARY SEWER
- SD — EXISTING ROOF DRAINS AND HEADER PIPES
- EXISTING STORM SEWER
- 610 — EXISTING MAJOR CONTOUR
- 611 — EXISTING MINOR CONTOUR
- PROPOSED LOT LINE
- PROPOSED CENTERLINE
- PROPOSED BUILDING SETBACK LINE
- PROPOSED EASEMENT LINE
- SEDIMENT FENCE
- LIMITS OF DISTURBANCE
- PROPOSED LIGHT DUTY ASPHALT
- TEMPORARY CONSTRUCTION EXIT
- ROCK BERM
- 5.3% — PROP WATER FLOW DIRECTION

NOTES:

1. ALL UTILITY SYMBOLS SHOWN REPRESENT APPROXIMATE LOCATIONS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE APPROPRIATE AGENCY'S STANDARD SPECIFICATIONS AND INSTALLATION DETAILS FOR ACTUAL LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE TEXAS ONE CALL CENTER, AND FIELD VERIFY EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

KEYNOTES (XX)

01 CONCRETE WASHOUT. CONTRACTOR SHALL FIELD LOCATE AS APPROVED BY OWNER/OWNER'S REP.

02 PROPOSED LOCATION OF ONSITE STAGING/ STORAGE, CONTRACTOR SHALL FIELD LOCATE AS APPROVED BY OWNER/OWNER'S REP.

03 PROPOSED LOCATION OF ONSITE SPOILS, CONTRACTOR SHALL FIELD LOCATE AS APPROVED BY OWNER/OWNER'S REP.

WARNING - OVERHEAD POWER LINES

CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF OVERHEAD POWER LINES.

811 KNOW WHAT'S BELOW. 811 BEFORE YOU DIG.

TX2 ENGINEERING
FIRM #: 20787

CONTACT:

645 FLORAL AVE, STE C
NEW BRAUNFELS, TX 78130

TEL: (830) 327-1235

STATE OF TEXAS
TREVOR N. TAST
124101
LICENSED
PROFESSIONAL ENGINEER

10/31/2023

STORM WATER POLLUTION PREVENTION PLAN

VINTAGE OAKS AT THE VINEYARD
CRANES MILL SINGLE FAMILY
COMAL COUNTY, TX 78132 YR: 2023

REVISIONS

REV.	DATE	DESCRIPTION	BY

DRAWN BY:	TNT
QA/QC BY:	TNT
PROJECT NO.:	###-####
PERMIT #:	

C12.0

SHEET

DWG: Z:\023-0023 Vintage Oaks at the Vineyard - Cranes Mill Single Family\40-Design\AutoCAD\Final Plans\Sheets\LDVP\023-0023-PSWPPP.dwg USER: MichaelAvery
DATE: Oct 31, 2023 9:25am XREFS: 023-0023 EBASE 023-0023 PBASE TBLK_24X36

TX2 Engineering
Firm F-20787
645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

Permanent Stormwater - Attachment G

Inspection, Maintenance, Repair and Retrofit Plan

Not Applicable

TX2 Engineering
Firm F-20787
645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

Permanent Stormwater - Attachment H

Pilot-Scale Field Testing Plan

Not Applicable

TX2 Engineering
Firm F-20787
645 Floral Ave, Ste C
New Braunfels, TX 78130
816-510-9151

Permanent Stormwater - Attachment I

Measure for Minimizing Surface Stream Contamination

Not Applicable

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

I THAD RUTHERFORD,
Print Name

SOUTHSTAR, PRESIDENT,
Title - Owner/President/Other

of VOX COMM LLC,
Corporation/Partnership/Entity Name

have authorized TREVOR TAST, P.E.
Print Name of Agent/Engineer

of TX2 ENGINEERING
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

10/12/23
Date

THE STATE OF TX §

County of COMAL §

BEFORE ME, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 12TH day of OCT., 2023.

NOTARY PUBLIC

Jim E Vater
My Commission Expires
11/02/2023
ID No 130426216

JIM E. VATER
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 11/02/2023

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: VOV Cranes Mill Single Family
Regulated Entity Location: New Braunfels, Texas
Name of Customer: VOX COMM LLC
Contact Person: Thad Rutherford Phone: (305) 476-1515
Customer Reference Number (if issued):CN N/A
Regulated Entity Reference Number (if issued):RN N/A

Austin Regional Office (3373)

☐ Hays ☐ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☒ Comal ☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to:

☐ Austin Regional Office
☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☒ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone ☐ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	12.476 Acres	$ 4,000
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
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: 10/30/2023

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

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.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN		**RN**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* — *If new Customer, enter previous Customer below:*

VOX COMM LLC

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
802994652	32066920206	82-5477362	

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☒ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☒ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:

2055 Central Plaza Ste 110 Box 195

City	New Braunfels	**State**	TX	**ZIP**	78130	**ZIP + 4**	2065

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(512) 923-9160		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update 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 Name *(Enter name of the site where the regulated action is taking place.)*

VOV Cranes Mill Single Family

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City		**State**		**ZIP**		**ZIP + 4**	
24. County	Comal							

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

25. Description to Physical Location:	The site is located approximately on the northeast corner of Hwy 46 and S. Cranes Mill Rd. in the Vintage Oaks at the Vineyard Subdivision off Hwy 46 in New Braunfels.				
26. Nearest City			**State**	**Nearest ZIP Code**	
New Braunfels			TX	78132	

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 Decimal:	29.773622		**28. Longitude (W) In Decimal:**	-98.274687	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	46	25.0	98	16	28.9

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
1521		236115	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Single Family Residential Houses

34. Mailing Address:	**2055 Central Plaza**							
	Ste 110 Box 195							
	City	**New Braunfels**	**State**	**TX**	**ZIP**	**78130**	**ZIP + 4**	**2065**
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
( ) -		( ) -

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
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

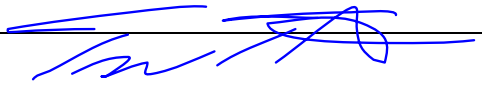
SECTION IV: Preparer Information

40. Name:	Michael Avery	**41. Title:**	Assistant Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(816 **)** 510-9151		**( )** -	mavery@tx2engineering.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:	TX2 Engineering	**Job Title:**	Owner	
Name *(In Print):*	Trevor Tast		**Phone:**	**(** 816 **)** 510- **9151**
Signature:			**Date:**	10/30/2023