Aboveground Storage Tank Facility Plan

Optum Pharmacy 704, Inc.
5627 University Heights Suite 108
San Antonio, Texas 78249

Prepared for:

Optum Pharmacy 704, Inc.

BRAUN INTERTEC
The Science You Build On.

Project B2401026
May 9, 2024

Braun Intertec Corporation

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Edwards Aquifer Application Cover Page
(TCEQ-20705)

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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: Optum Pharmacy 704						**2. Regulated Entity No.:** RN110764388			
3. Customer Name: OptumRx, Inc						**4. Customer No.:** CN605652767			
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):**			5.5
9. Application Fee:	$650		**10. Permanent BMP(s):**			N/A			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			1			
13. County:	Bexar		**14. Watershed:**			Leon Creek Watershed			

Application Distribution

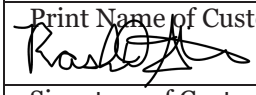
Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which 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.)	1	__	__	__	__
Region (1 req.)	1	__	__	__	__
County(ies)	1	__	__	__	__
Groundwater Conservation District(s)	1 Edwards Aquifer Authority __Trinity-Glen Rose	__Edwards Aquifer Authority	__Kinney	__EAA __Medina	__EAA __Uvalde
City(ies) Jurisdiction	__Castle Hills __Fair Oaks Ranch __Helotes __Hill Country Village __Hollywood Park 1 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. OptumRx, Inc. / Rashun Stinson
Print Name of Customer/Authorized Agent  5/14/2024
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 (TCEQ-0587)

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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: OptumRx, Inc. / Rashun Stinson

Date: 5/14/2024

Signature of Customer/Agent:

Project Information

1. Regulated Entity Name: Optum Pharmacy 704
2. County: Bexar
3. Stream Basin: San Antonio River Basin
4. Groundwater Conservation District (If applicable): 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: Rashun D. Stinson
   Entity: OptumRX, Inc.
   Mailing Address: 5627 University Heights Boulevard Suite 108
   City, State: San Antonio, Texas Zip: 78249
   Telephone: 763.330.3140 FAX: _____
   Email Address: rashun.stinson@optum.com

8. Agent/Representative (If any):

   Contact Person: Janice King
   Entity: Consultant / Braun Intertec Corporation
   Mailing Address: 2105 Donley Drive, Suite 400
   City, State: Austin, Texas Zip: 78758
   Telephone: 512.221.8902 FAX: 512.493.9693
   Email Address: JaKing@braunintertec.com

9. Project Location:

   ☒ The project site is located inside the city limits of San Antonio, Texas.
   ☐ 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 project site is located at the Optum Pharmacy 704 location at 5627 University Heights Suite 108, in building B. When traveling south on I-10, take exit 558 towards De Zavala Rd. Turn right onto De Zavala Road, travel 0.5 miles, then turn right onto Cogburn Avenue. Travel 0.1 mile then turn right, travel another 0.1 mile then turn left. Travel 200 feet and the Optum Pharmacy building will be on the right.

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

12. ☒ **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: _____

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.

Attachment A

Road Map

BRAUN INTERTEC

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BRAUN INTERTEC
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2105 Donley Dr, Suite 400
Austin, TX 78758
512.493.9691
braunintertec.com

Project No: B2401026

Drawing No: AA_RoadMap

Drawn By:	SL
Date Drawn:	3/14/2024
Checked By:	NS
Last Modified:	4/10/2024

Optum Pharmacy 704 AST Facility Plan

5627 University Heights Boulevard, Suite 108

San Antonio, Texas

Road Map

Attachment A

Attachment B

USGS / Edwards Recharge Zone Map

BRAUN INTERTEC

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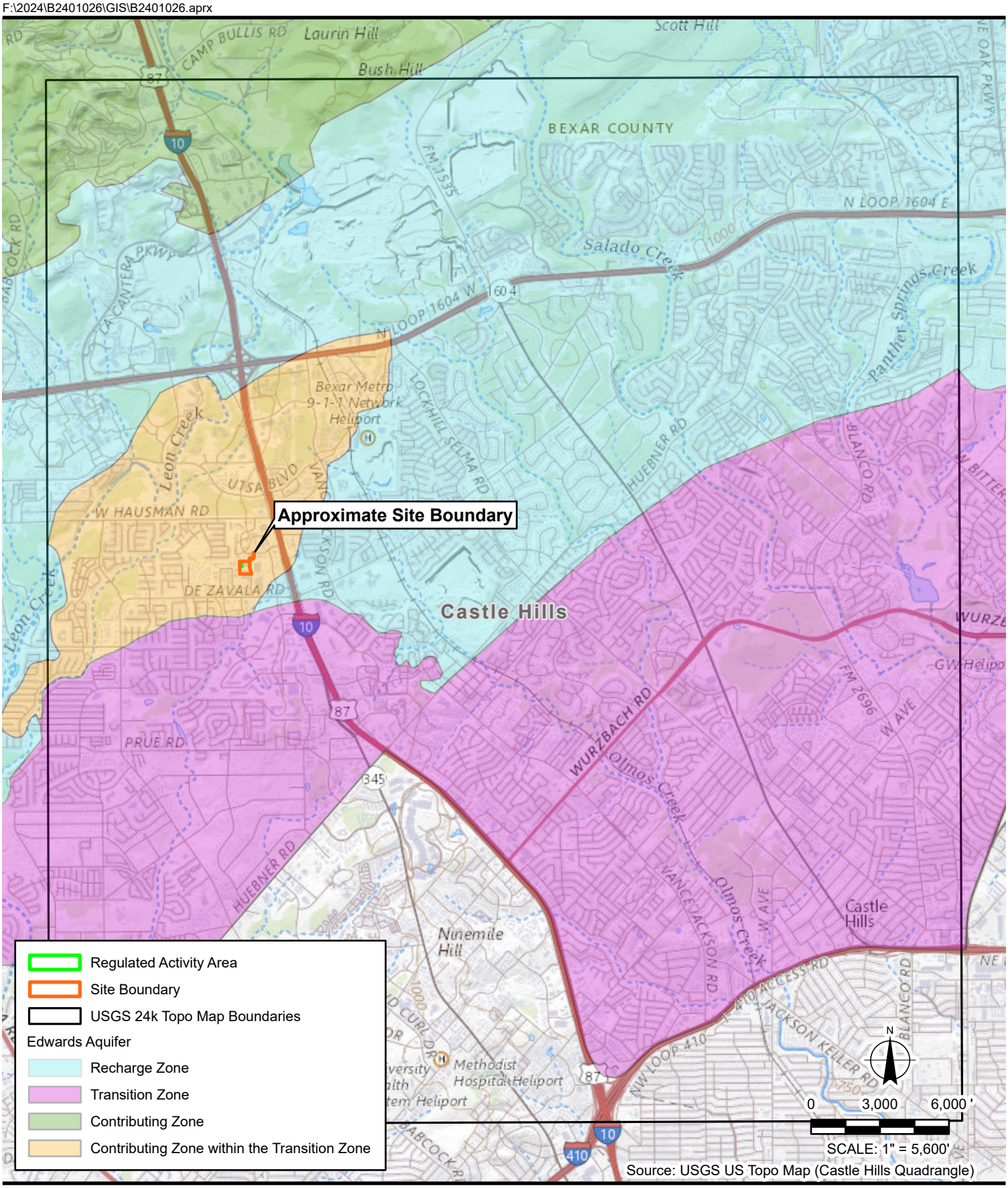

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Austin, TX 78758
512.493.9691
braunintertec.com

Project No:	B2401026
Drawing No:	AB_USGS_Edwards1
Drawn By:	SL
Date Drawn:	3/14/2024
Checked By:	NS
Last Modified:	4/10/2024

Optum Pharmacy 704 AST Facility Plan

5627 University Heights Boulevard, Suite 108

San Antonio, Texas

USGS / Edwards Recharge Zone Map

Attachment B

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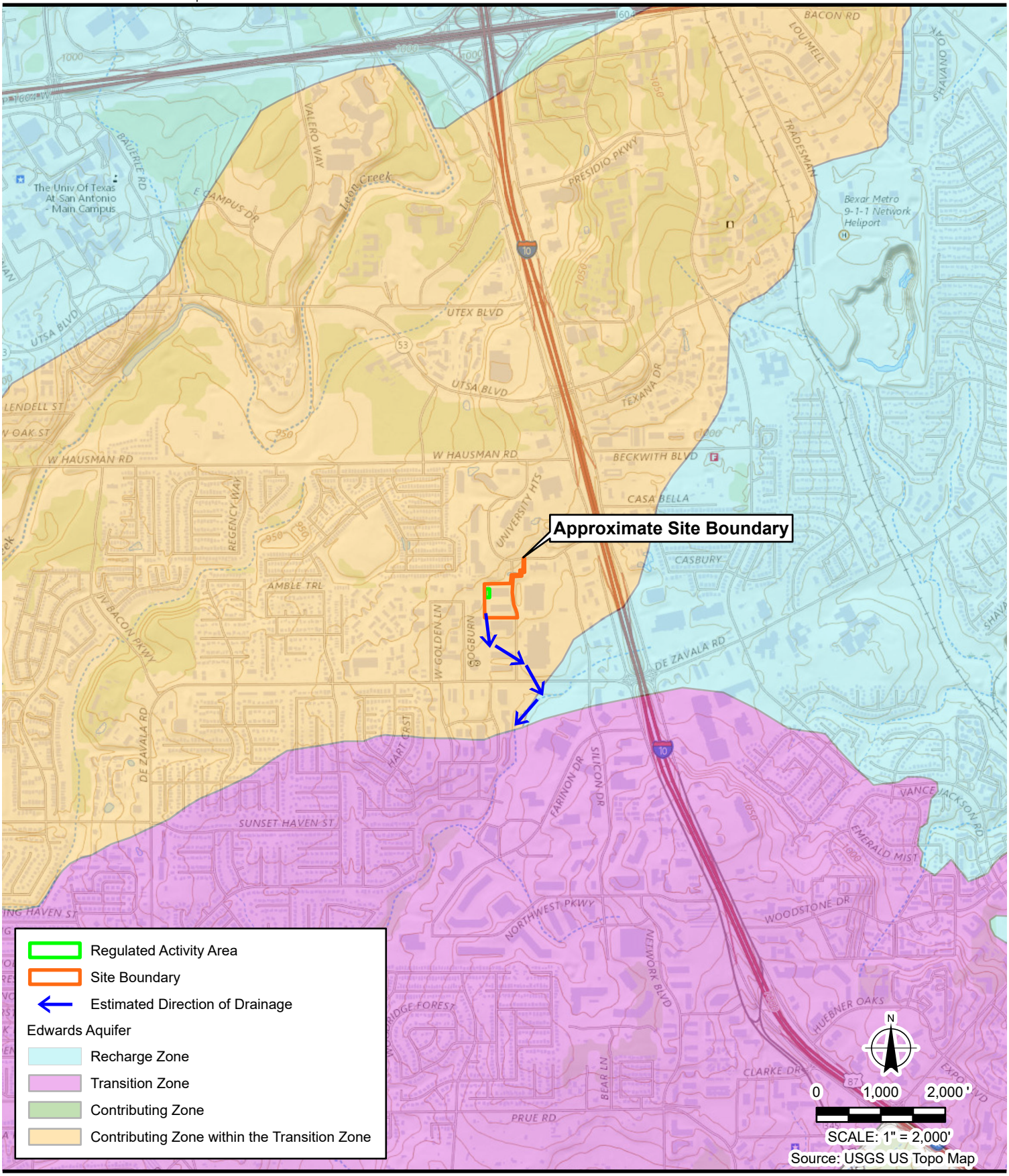

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2105 Donley Dr, Suite 400
Austin, TX 78758
512.493.9691
braunintertec.com

Project No: B2401026

Drawing No: AB_USGS_Edwards2

Drawn By:	SL
Date Drawn:	3/14/2024
Checked By:	NS
Last Modified:	4/10/2024

Optum Pharmacy 704 AST Facility Plan

5627 University Heights Boulevard, Suite 108

San Antonio, Texas

USGS / Edwards Recharge Zone Map

Attachment B

Attachment C
Project Description

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

The project is located at the Optum Pharmacy 704 site at 5627 University Heights Suite 108 in San Antonio, Texas (Site). The site is a Home Delivery Pharmacy and receives drugs in bulk. Pharmacists and automatic pill dispensers fill prescriptions that are sent out through the mail to customers. There are large coolers at the site for drugs that require refrigeration. The emergency generator has been installed to ensure critical operations and facility coolers stay operational if power is lost. The site building was constructed in 2017, and Optum Pharmacy 704 has been the only tenant to occupy it. The building is owned and developed by University Heights Service Center (UHSC) LTD.

The site encompasses approximately 5.5 acres, and all Site activities are conducted on-Site; no activities will be conducted off-Site. The building is surrounded by impervious cover on the north, west, south, and east sides of the building with small strips of grass between the building and the parking lot areas. This project has one phase, which includes the installation of a new 2,100-gallon diesel fuel generator on the west side of the building. A concrete pad has been installed to hold the generator, and metal bollards have been installed around the generator for protection. Bollards were installed shortly after the generator was delivered to the Site. As there are no manmade or natural geologic features identified in the Geologic Assessment, these bollards will serve as staking to identify the boundaries of the regulated activity. There will not be any indoor or outdoor demolition. As construction has been completed, no temporary stormwater best management practices (BMPs) have been implemented.

Stormwater from the site flows to the south into a stormwater detention pond approximately 700 feet south of the Site. Stormwater exits the detention pond through a channel in the southwestern corner and goes underground before reaching De Zavala Road. Stormwater travels through underground channels until it reaches Huebner Creek and eventually flows to Lower Leon Creek within the San Antonio River Basin, which discharges to the San Antonio River. The Site is located within the Leon Creek Watershed. Based on email coordination with Drew Evans with the TCEQ on March 7, 2024, Aboveground Storage Tank (AST) Facility Plan applications do not require permanent BMPs.

The emergency generator on site contains one fuel tank, which stores 2,100 gallons of diesel fuel. The generator has a dual wall belly tank, which can store 110 percent of the primary tank capacity. The belly tank is equipped with a leak detection switch and fill overflow protection. The generator and associated fuel tank will be inspected monthly in accordance with the Site's Spill Prevention, Control, and Countermeasure (SPCC) plan, which is in development. Needed repairs will be scheduled immediately in order to maintain operations and environmental compliance. Inspections will be documented and retained on Site. No soil disturbances occurred throughout the duration of this project. Soil stabilization controls and BMPs are not applicable to the Site.

Geologic Assessment Form (TCEQ-0585)

BRAUN INTERTEC

Geologic Assessment - Edwards Aquifer AST Facility Plan

Optum Pharmacy 704
5627 University Heights Boulevard, Suite 108
San Antonio, Texas

Prepared for:

Optum Pharmacy 704, Inc.

Project B2401026
February 28, 2024

Braun Intertec Corporation

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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: Melissa Wann, P.G.

Telephone: 512-790-7181

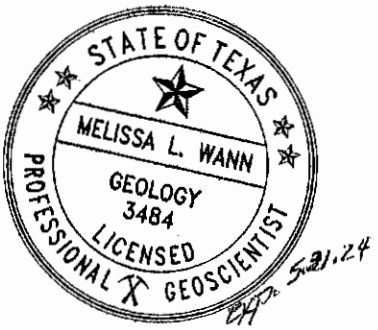
Fax: 512-493-9693

Date: 2/28/2024

Representing: Braun Intertec Corporation, TBPG Registration No. 50151 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

Melissa Wann



5.21.24

Regulated Entity Name: OPTUM PHARMACY 704

Project Information

1. Date(s) Geologic Assessment was performed: 2/16/2024
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)
HnB - Heiden clay	D	5.83

** 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" = 120'
   Site Geologic Map Scale: 1" = 120'
   Site Soils Map Scale (if more than 1 soil type): 1" = 120'

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.

LIST OF ATTACHMENTS

Attachment A
Geologic Assessment Table

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: Optum Pharmacy 704 - AST Facility Plan, San Antonio, Texas

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)	DOG LEG	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	
No features were observed.																				

* DATUM: WGS 84

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 - per City of Austin Municode, infill around wastewater piping likely consists of sand and/or gravel.

12 TOPOGRAPHY
Hilltop

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 2/28/2024

Melissa Wann, P.G.

Sheet 1 of 1
(Attachment)

STATE OF TEXAS
MELISSA L. WANN
GEOLOGY
3484
LICENSED
PROFESSIONAL GEOSCIENTIST

5.31.24

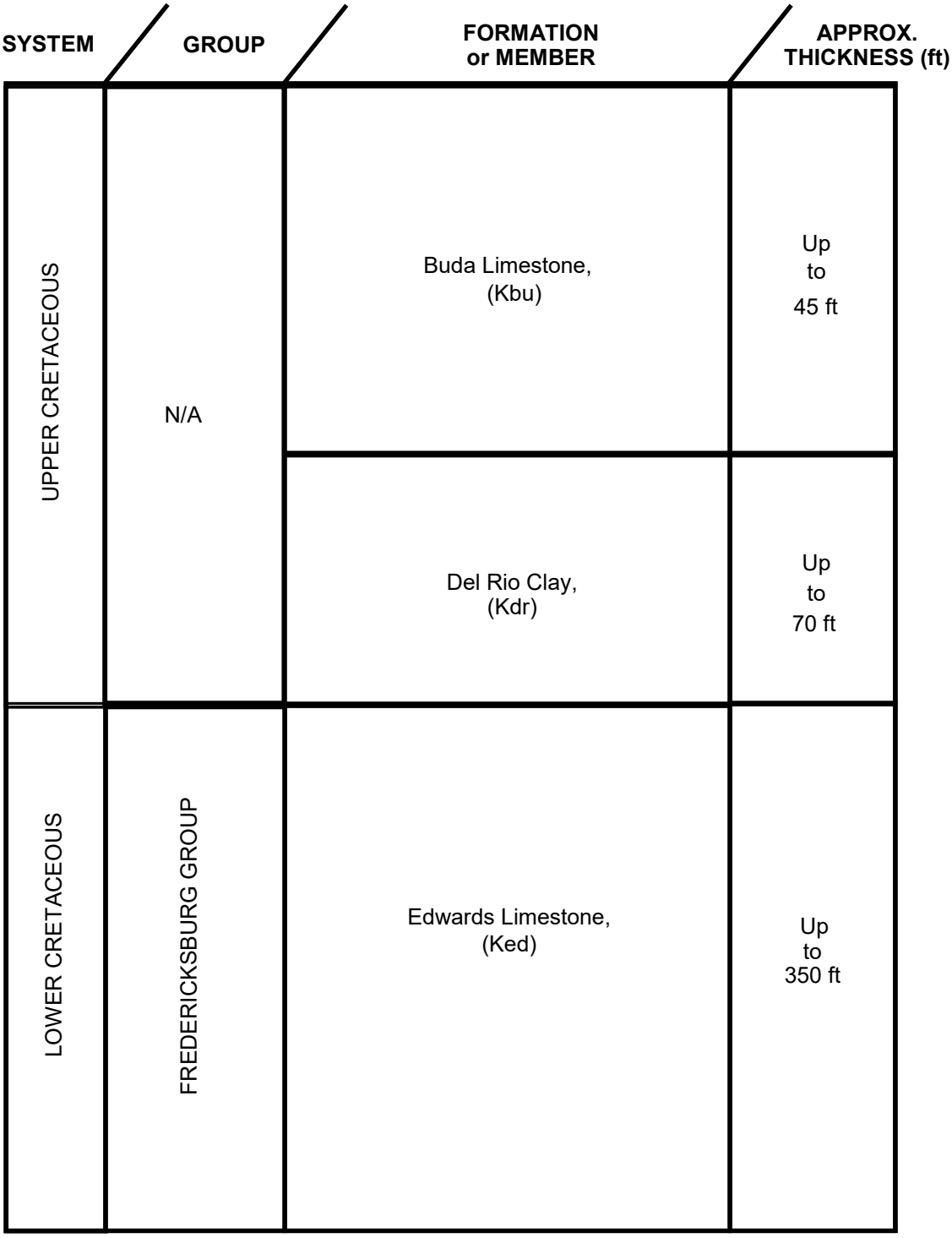
TCEQ-0585-Table (Rev. 10-01-04)

Geologic Assessment Table - Attachment 1

GPS Requirements

DATUM: WGS 84
METHOD: GPS Unit - Garmin eTrex 30x
DATE: 2/16/2024
USER: Wesmond Williams

Attachment B
Stratigraphic Column



Attachment B
Stratigraphic Column
Optum Pharmacy - AST Facility Plan
San Antonio, Texas

BRAUN INTERTEC
The Science You Build On.

2/21/2024	Braun Project No.: B2401026	Drawn by: WW	Checked by: MW	Revised by:

Attachment C

Site Geology & Photographic Log

ATTACHMENT C - SITE GEOLOGY

The Optum Pharmacy 704 is located at 5627 University Heights Boulevard, Suite 108, San Antonio, Bexar County, Texas and consists of a pharmaceutical facility, asphalt-paved parking lot, and roadways (Site). Reconnaissance was performed on the entire Site to evaluate surficial drainage features; however, the Geologic Assessment focused on the regulated activity area, an approximately 0.18-acre zone on the west side of the pharmacy building where the aboveground storage tank (AST) and generator are located.

Located in Bexar County, the Site is within the Edwards Aquifer Contributing Zone within the Transition Zone and located on the western edge and uplifted portion of the Balcones Fault Zone. The Balcones Fault Zone divides two distinct physiographic provinces: the structurally uplifted Hill Country of the Edwards Plateau to the west and the Blackland Prairie of the Gulf Coast Plain to the east. The uplifted portion of the Balcones Fault Zone contains generally flat-lying beds with normal faulting. Based on a review of the Bureau of Economic Geology (BEG) Geologic Atlas of Texas, San Antonio Sheet (1974), the nearest mapped fault is located approximately 0.4 mile north of the Site.

Site topography slopes to the southeast with elevations ranging from approximately 987 to 990 feet above mean sea level (AMSL). Surface water runoff appears to occur as overland flow with general drainage towards the southeast.

Based on a review of the BEG Geologic Atlas of Texas, San Antonio Sheet, the majority of the regulated activity area is underlain by the upper cretaceous Buda Limestone (Kbu) that is underlain by Del Rio Clay (Kdr). The Del Rio Clay is underlain by the lower cretaceous Edwards Limestone, (Ked). The Buda Limestone consists of poorly bedded to nodular, fine-grained bioclastic limestone while the Del Rio Clay consists of calcareous and gypsiferous gray to yellowish gray clay. The Edwards Limestone formation is comprised of limestone, dolostone, and chert that is fine-grained, massive to thin bedded, hard, and brittle.

A field survey of the regulated activity area was conducted by Wesmond Williams on February 16, 2024. The field survey also included reconnaissance of the Site (which includes the regulated activity area) to evaluate surficial drainage features. On-foot reconnaissance using approximately 30-foot or smaller transects was performed to evaluate the regulated activity area, which is a paved area. No surficial drainage areas where bedrock may be exposed or where there may be a discreet recharge path were observed.

No manmade features, natural features, or documented sensitive features were observed in the regulated activity area during the field reconnaissance; therefore, no features were listed on the sensitive features table.

Photo 1: View of the regulated activity area containing generator and AST, viewed facing east.

Photo 2: View of the regulated activity area on the west portion of the Site, viewed facing north.

BRAUN INTERTEC

Attachment C
Photographic Log
Optum Pharmacy—AST Facility Plan
San Antonio, Texas

Photo 3: View of stormwater drain on western portion of the Site, the regulated activity area is shown in the background, viewed facing south.

Attachment D
Site Maps

F:\2024\B2401026\GIS\B2401026.aprx

BRAUN INTERTEC
The Science You Build On.
2105 Donley Dr, Suite 400
Austin, TX 78758
512.493.9691
braunintertec.com

Project No:
B2401026

Drawing No:
AD-1_Geologic Map

Drawn By:	SL
Date Drawn:	2/21/2024
Checked By:	WW
Last Modified:	3/26/2024

Optum Pharmacy 704 AST Facility Plan

5627 University Heights Boulevard, Suite 108

San Antonio, Texas

Geology Map

Attachment D-1

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Austin, TX 78758
512.493.9691
braunintertec.com

Drawing Information

Project No: B2401026

Drawing No: GeoMap

Drawn By:	SL
Drawn Drawn:	2/21/2024
Checked By:	WW
Last Modified:	3/26/2024

Project Information

Optum Pharmacy 704
AST Facility Plan

5627 University Heights Boulevard, Suite 108

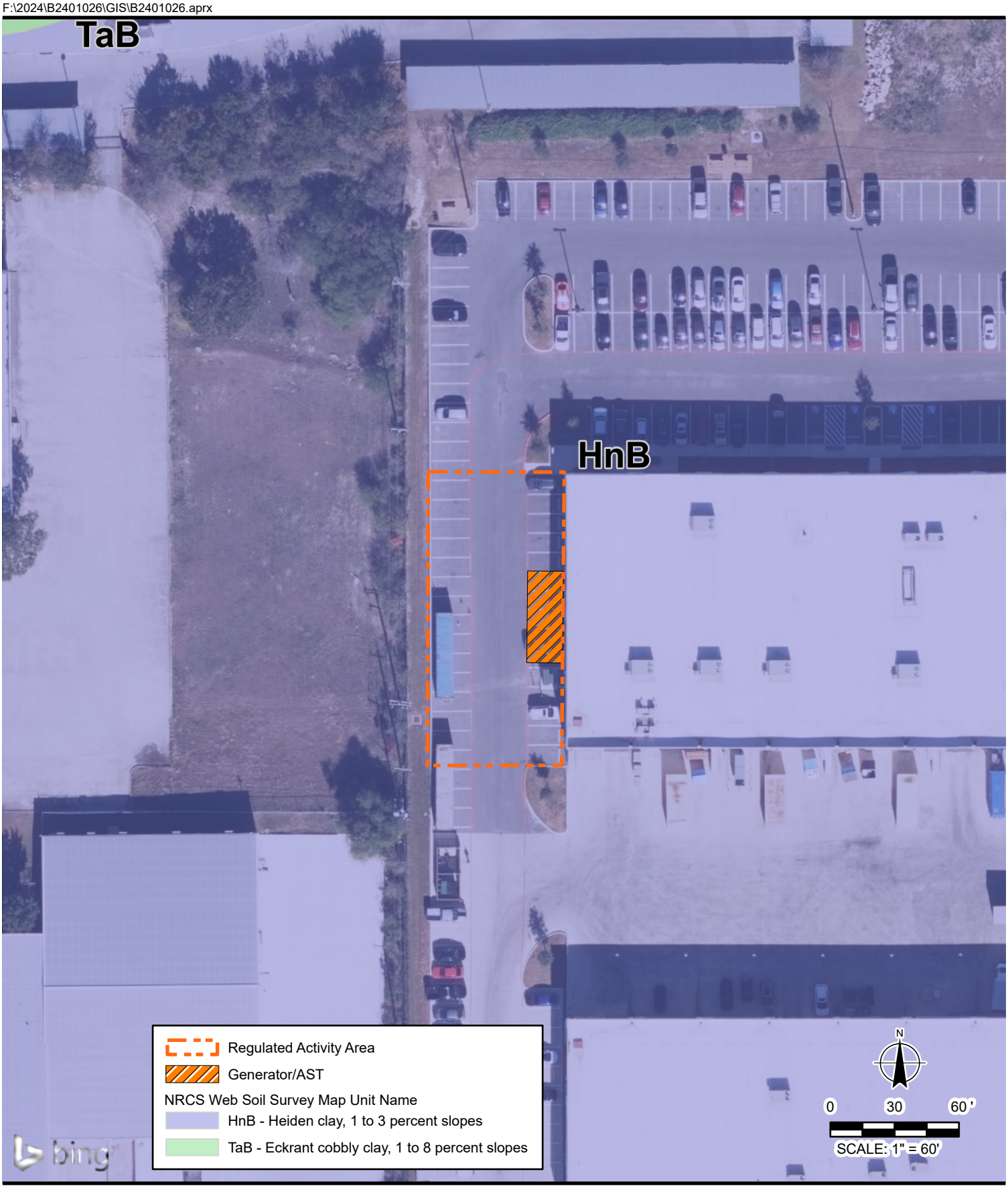
San Antonio, Texas

Geology Map

Attachment D-2

P:\2024\B2401026\GIS\B2401026.aprx

F:\2024\B2401026\GIS\B2401026.aprx



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Austin, TX 78758
512.493.9691
braunintertec.com

Project No: B2401026

Drawing No: AD-3_Soil Map

Drawn By:	SL
Date Drawn:	2/21/2024
Checked By:	WW
Last Modified:	3/26/2024

Optum Pharmacy 704 AST Facility Plan

5627 University Heights Boulevard, Suite 108

San Antonio, Texas

Soil Map

Attachment D-3

P:\2024\B2401026\GIS\B2401026.aprx

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Austin, TX 78758
512.493.9691
braunintertec.com

Drawing Information

Project No: B2401026

Drawing No: SoilMap

Drawn By:	SL
Drawn Drawn:	2/21/2024
Checked By:	WW
Last Modified:	3/26/2024

Project Information

Optum Pharmacy 704
AST Facility Plan

5627 University Heights Boulevard, Suite 108

San Antonio, Texas

Soil Map

Attachment D-4

Attachment E
Physical Setting Report

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		24020900799p
Date Completed:		February 11, 2024
Project Number:		B2401026
Project Property:		AST Facility Plan University Heights Blvd San Antonio TX
Coordinates:		
	Latitude:	29.56685192
	Longitude:	-98.59851758
	UTM Northing:	3270857.84481 Meters
	UTM Easting:	538889.266307 Meters
	UTM Zone:	UTM Zone 14R
	Elevation:	986.96 ft
	Slope Direction:	E

The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information

Current USGS Topo (2019)

0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Castle Hills, TX

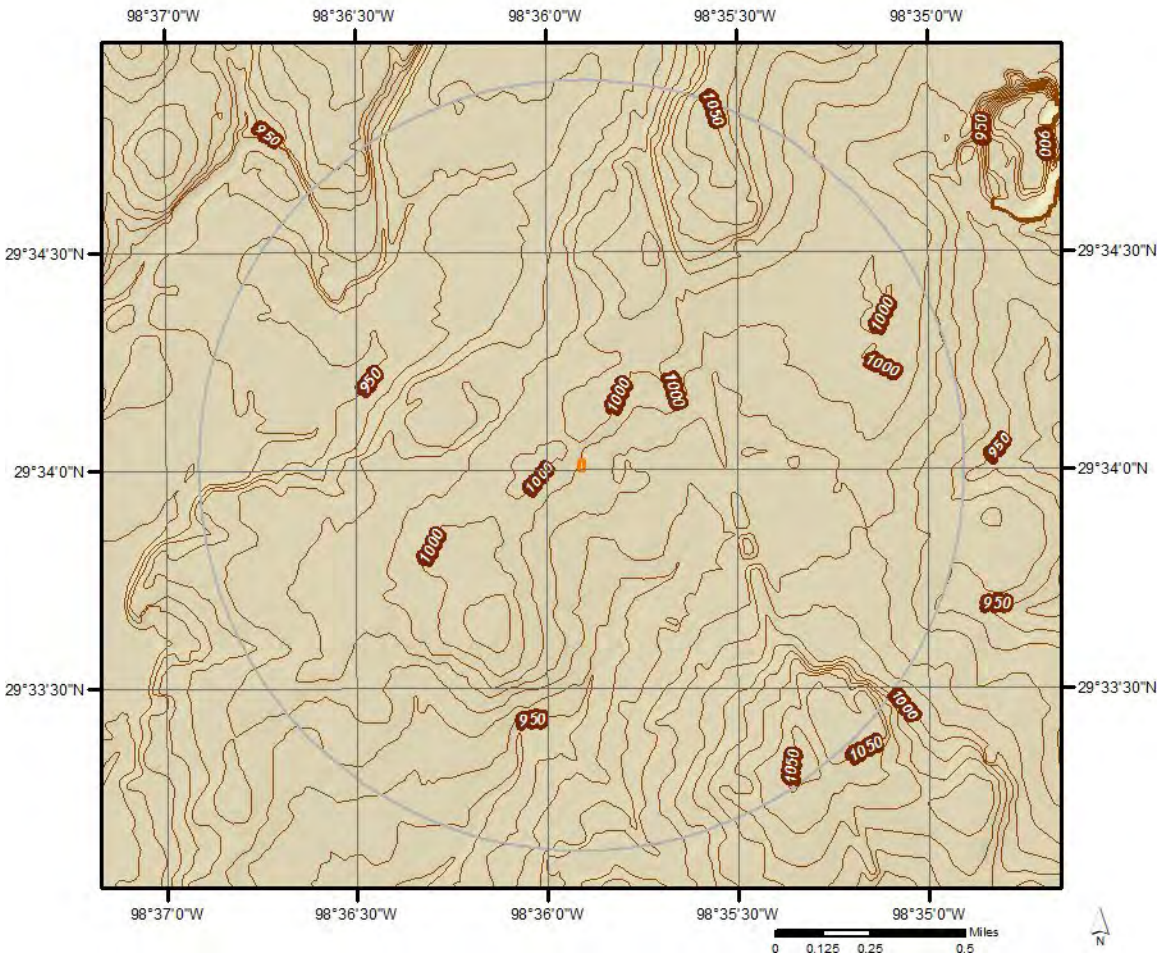
Source: USGS 7.5 Minute Topographic Map

Topographic Information

The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

Elevation:	986.96 ft
Slope Direction:	E



Hydrologic Information

Wetland

0 0.075 0.15 0.3 Miles

N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

ERIS

Hydrologic Information

Flood Hazard Zones

This map shows FEMA flood hazard zones based on FEMA's National Flood Hazard Layer. FIRM Panels are overlayed. An absent FIRM panel represents no data available.

Miles
0 0.2 0.4

N

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee
- Open Water

Quadrangle(s): Castle Hills,TX

ERIS

Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.
For detailed Zone descriptions please click the link: https://floodadvocate.com/fema-zone-definitions

Available FIRM Panels in area:	48029C0230G(effective:2010-09-29) 48029C0240G(effective:2010-09-29)

Flood Zone AE-01

Zone:	AE
Zone subtype:	

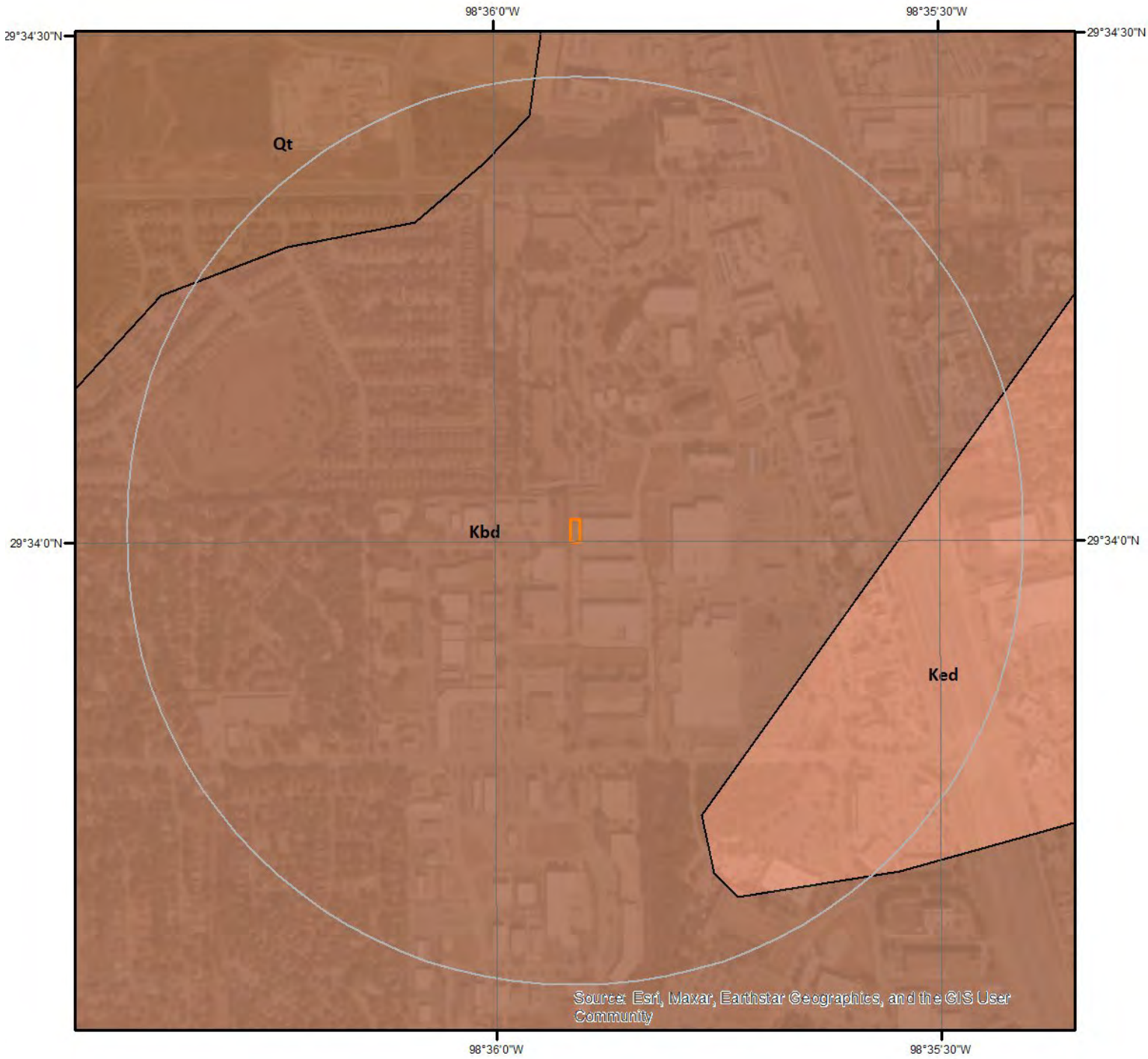
Flood Zone X-07

Zone:	X
Zone subtype:	1 PCT FUTURE CONDITIONS

Flood Zone X-12

Zone:	X
Zone subtype:	AREA OF MINIMAL FLOOD HAZARD

Geologic Information



Miles
0
0.175
0.35
N

Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

ERIS

Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Ked

Unit Name:	Edwards Limestone
Unit Age:	Phanerozoic | Mesozoic | Cretaceous-Early
Primary Rock Type:	limestone
Secondary Rock Type:	dolostone (dolomite)
Unit Description:	Edwards Limestone

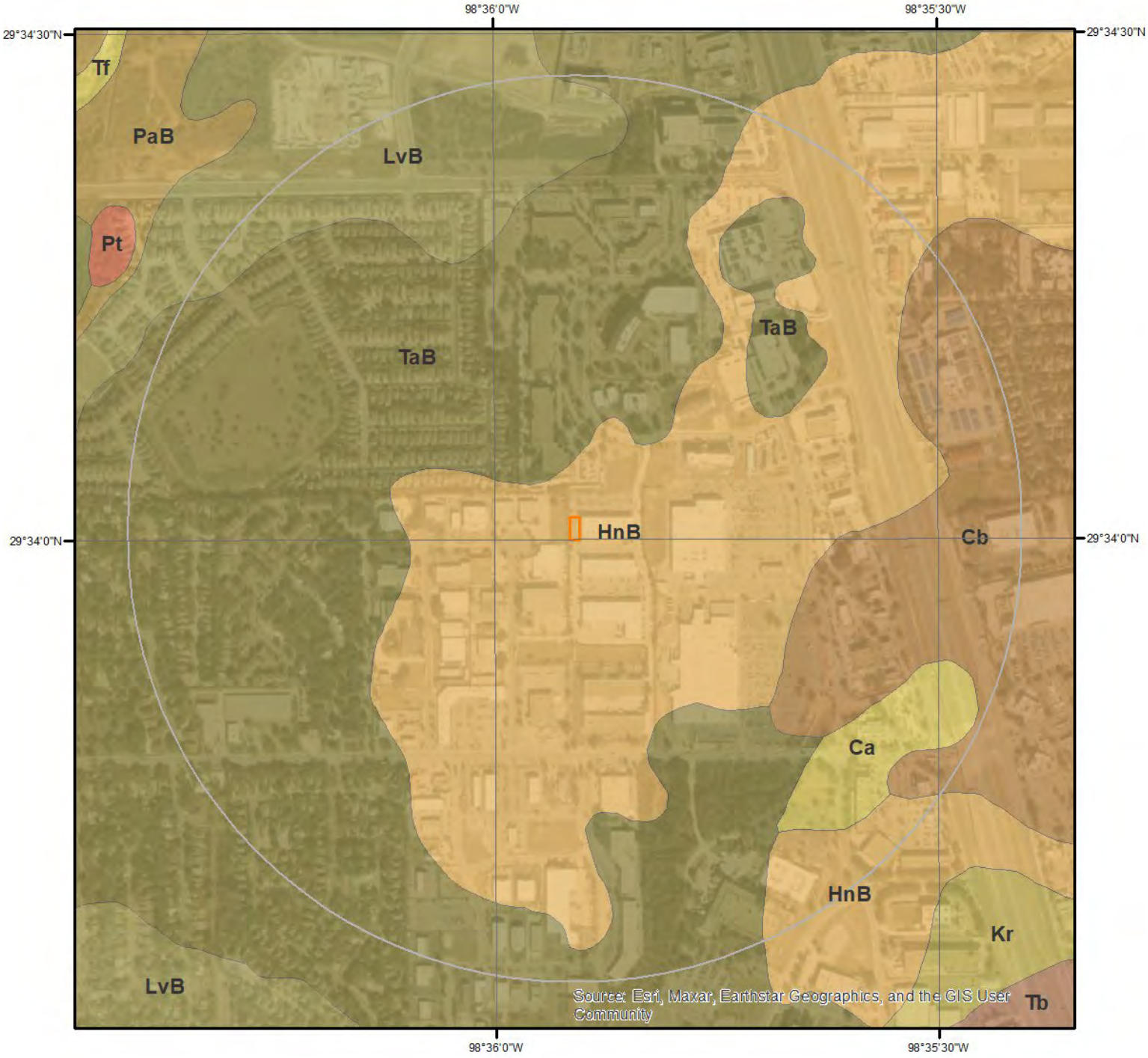
Geologic Unit Kbd

Unit Name:	Buda Limestone and Del Rio Clay, undivided
Unit Age:	Phanerozoic | Mesozoic | Cretaceous-Late
Primary Rock Type:	limestone
Secondary Rock Type:	mudstone
Unit Description:	Buda Limestone and Del Rio Clay, undivided

Geologic Unit Qt

Unit Name:	Terrace deposits
Unit Age:	Phanerozoic | Cenozoic | Quaternary | Pleistocene Holocene
Primary Rock Type:	terrace
Secondary Rock Type:	sand
Unit Description:	Terrace deposits

Soil Information



SSURGO Soils

0 0.175 0.35 Miles

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit Ca (0.12%)

Map Unit Name:	Anhalt clay, 0 to 2 percent slopes
Bedrock Depth - Min:	71cm
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Anhalt(85%)	
horizon Ap(0cm to 30cm)	Clay
horizon Bss(30cm to 71cm)	Clay
horizon Cr(71cm to 152cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Ca - Anhalt clay, 0 to 2 percent slopes

Component: Anhalt (85%)
The Anhalt component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on hillslopes on dissected plateaus. The parent material consists of clayey residuum weathered from limestone. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R081CY358TX Deep Redland 29-35 Pz ecological site. Nonirrigated land capability classification is 3s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Krum (8%)
Generated brief soil descriptions are created for major soil components. The Krum soil is a minor component.

Component: Tarrant (5%)
Generated brief soil descriptions are created for major soil components. The Tarrant soil is a minor component.

Component: Tarpley (2%)
Generated brief soil descriptions are created for major soil components. The Tarpley soil is a minor component.

Map Unit Cb (51.74%)

Map Unit Name:	Crawford, stony and Bexar soils, 0 to 5 percent slopes
Bedrock Depth - Min:	69cm
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Crawford(51%)	
horizon A(0cm to 20cm)	Stony clay
horizon Bss(20cm to 86cm)	Stony clay
horizon R(86cm to 127cm)	Bedrock
Bexar(36%)	
horizon A1(0cm to 20cm)	Cobbly clay loam

horizon A2(20cm to 46cm)	Very cobbly clay loam
horizon Bt(46cm to 69cm)	Cobbly clay
horizon R(69cm to 105cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Cb - Crawford, stony and Bexar soils, 0 to 5 percent slopes

Component: Crawford (51%)
The Crawford, stony component makes up 51 percent of the map unit. Slopes are 0 to 3 percent. This component is on hillslopes on dissected plateaus. The parent material consists of residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 21 to 45 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R081CY358TX Deep Redland 29-35 Pz ecological site. Nonirrigated land capability classification is 4s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Bexar (36%)
The Bexar component makes up 36 percent of the map unit. Slopes are 0 to 5 percent. This component is on hillslopes on dissected plateaus. The parent material consists of residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 36 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R081CY361TX Redland 29-35 Pz ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Eckrant (9%)
Generated brief soil descriptions are created for major soil components. The Eckrant soil is a minor component.

Component: Tarpley (4%)
Generated brief soil descriptions are created for major soil components. The Tarpley soil is a minor component.

Map Unit HnB (3.17%)

Map Unit Name:	Heiden clay, 1 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Heiden(85%)

horizon Ap(0cm to 15cm)	Clay
horizon A(15cm to 46cm)	Clay
horizon Bkss(46cm to 147cm)	Clay
horizon CBdk(147cm to 178cm)	Clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: HnB - Heiden clay, 1 to 3 percent slopes

Component: Heiden (85%)
The Heiden component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on ridges on dissected plains. The parent material consists of clayey residuum weathered from mudstone. Depth to a root restrictive layer, densic material, is 40 to 65 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. There is no

zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R086AY011TX Southern Blackland ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 14 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 7 within 30 inches of the soil surface.

Component: Houston Black (10%)
Generated brief soil descriptions are created for major soil components. The Houston Black soil is a minor component.

Component: Ferris (5%)
Generated brief soil descriptions are created for major soil components. The Ferris soil is a minor component.

Map Unit LvB (7.5%)

Map Unit Name:	Lewisville silty clay, 1 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Lewisville(85%)

horizon Ap(0cm to 39cm)	Silty clay
horizon Bk1(39cm to 97cm)	Silty clay
horizon Bk2(97cm to 175cm)	Silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: LvB - Lewisville silty clay, 1 to 3 percent slopes

Component: Lewisville (85%)
The Lewisville component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on stream terraces on river valleys. The parent material consists of calcareous clayey alluvium derived from mudstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R086AY007TX Southern Clay Loam ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 30 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Altoga (10%)
Generated brief soil descriptions are created for major soil components. The Altoga soil is a minor component.

Component: Branyon (5%)
Generated brief soil descriptions are created for major soil components. The Branyon soil is a minor component.

Map Unit TaB (37.47%)

Map Unit Name:	Eckrant cobbly clay, 1 to 8 percent slopes
Bedrock Depth - Min:	28cm
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Eckrant(85%)

horizon A1(0cm to 10cm)	Cobbly clay

horizon A2(10cm to 28cm)	Very cobbly clay
horizon R(28cm to 203cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: TaB - Eckrant cobbly clay, 1 to 8 percent slopes

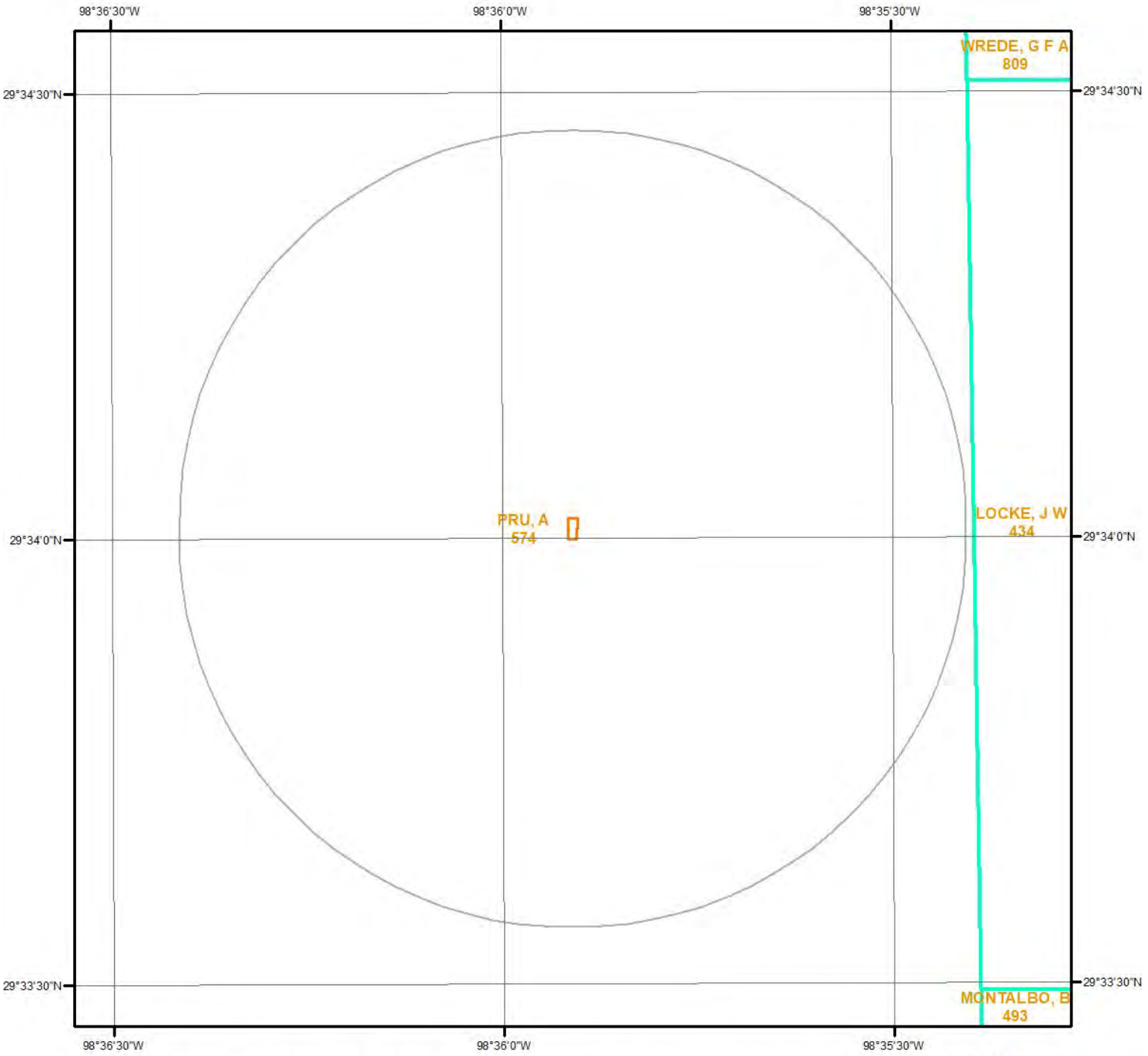
Component: Eckrant (85%)
The Eckrant component makes up 85 percent of the map unit. Slopes are 1 to 8 percent. This component is on ridges on dissected plateaus. The parent material consists of residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 4 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 6 percent. This component is in the R081CY360TX Low Stony Hill 29-35 Pz ecological site. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Brackett (7%)
Generated brief soil descriptions are created for major soil components. The Brackett soil is a minor component.

Component: Bexar (5%)
Generated brief soil descriptions are created for major soil components. The Bexar soil is a minor component.

Component: Krum (3%)
Generated brief soil descriptions are created for major soil components. The Krum soil is a minor component.

Pipeline and Survey Information



Survey & Pipeline Map

0 0.2 0.4 Miles

N

This maps shows Survey & Pipeline around the target property. Please refer to the report for detailed descriptions.

Legend

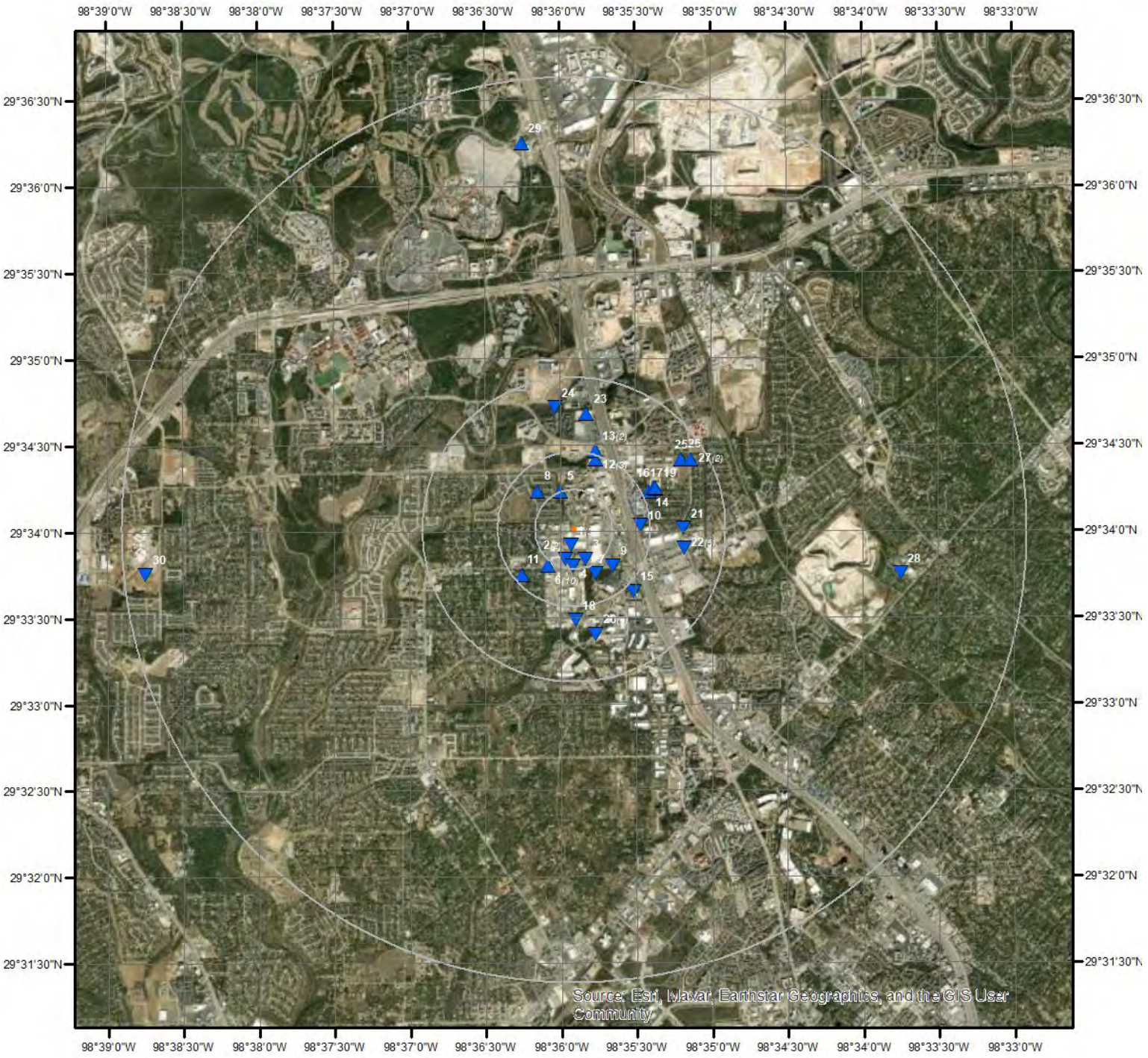
- Pipeline
- Survey

Pipeline and Survey Detail Report

The previous page shows a pipeline and survey map. Detailed information about each unit is provided below.

No pipeline records found for the project property or surrounding properties.

Wells and Additional Sources



Wells & Additional Sources

N

0 0.45 0.9 1.8 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	ID	Distance (ft)	Direction
	No records found		

Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
	No records found		

USGS National Water Information System

Map Key	Site No	Distance (ft)	Direction
2	USGS-293350098355801	1042.85	SSW
3	USGS-293347098355400	1058.14	SSE
4	USGS-08181425	1228.60	S
9	USGS-08181420	1823.81	SE
10	USGS-293401098352701	2317.87	E
15	USGS-293338098353001	2964.43	SE
17	USGS-293414098352101	3155.63	ENE
18	USGS-293328098355301	3147.07	S
21	USGS-293400098351000	3818.51	E
24	USGS-293442098360101	4234.51	N
25	USGS-293424098351101	4419.52	ENE
27	USGS-293425098350801	4735.98	ENE

State Sources

Fort Bend Subsidence District Water Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Groundwater Database

Map Key	Owner Name	Distance (ft)	Direction
2	Edwards Aquifer Auth. LUSUR #7	1042.85	SSW
2	6828406	1042.85	SSW
19	6828402	3169.10	ENE
19	H G Howell	3169.10	ENE
26	T E Cook	4434.59	ENE
26	6828403	4434.59	ENE
27	6828407	4735.98	ENE
27	Edwards Aquifer Auth. LUSUR #23	4735.98	ENE

Harris Galveston Subsidence District Water Wells

Map Key	ID	Distance (ft)	Direction

Wells and Additional Sources Summary

No records found

High Plains Water Wells

Map Key	ID	Distance (ft)	Direction
No records found			

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
No records found			

Plotted Water Wells

Map Key	WWD ID	Distance (ft)	Direction
11	482834	2325.91	SW
28	482837	11518.36	E
29	482829	13611.70	N
30	482822	15083.37	W

Plugged Water Wells

Map Key	Well Rpt Track No	Distance (ft)	Direction
5		1352.20	NNW
7		1682.77	SSE
8		1778.55	NW
12		2499.52	NNE
12		2499.52	NNE
12		2499.52	NNE
16		3090.08	ENE

Public Water Systems Wells and Surface Intakes

Map Key	ID	Distance (ft)	Direction
No records found			

Submitted Drillers Report Database

Map Key	Well Rpt Track No	Distance (ft)	Direction
1	241442	511.35	SSW
1	241444	511.35	SSW
1	241443	511.35	SSW
6	186033	1498.21	SW
6	186028	1498.21	SW
6	186031	1498.21	SW
6	186029	1498.21	SW
6	186027	1498.21	SW
6	186035	1498.21	SW
6	186026	1498.21	SW
6	186025	1498.21	SW
6	186030	1498.21	SW
6	186032	1498.21	SW
13	232346	2790.37	NNE
13	232345	2790.37	NNE

20	181678	3707.72	SSE
20	181667	3707.72	SSE
20	181676	3707.72	SSE
20	181677	3707.72	SSE
22	292637	3873.67	E
22	292638	3873.67	E
22	292641	3873.67	E
22	292640	3873.67	E
22	292639	3873.67	E

Underground Injection Control

Map Key	ID	Distance (ft)	Direction
	No records found		

Water Utility Database

Map Key	ID	Distance (ft)	Direction
	No records found		

Well Log Reports from Plotted Water Wells

Map Key	Grid No	Distance (ft)	Direction
14	68-28-4	2881.05	ENE
14	JIM WALKER	2881.05	ENE
23	68-28-4	4010.02	N
23	GRACE PRESBYTERIAN CHURCH	4010.02	N

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	SSW	0.20	1,042.85	977.00	FED USGS

Site No:	USGS-293350098355801
Site Type:	Well
Formation Type:	Edwards and Associated Limestones
Date Drilled:	19980312
Well Depth:	304
Well Depth Unit:	ft
Well Hole Depth:	310
Well Hole Depth Unit:	ft
Reporting Agency:	USGS Texas Water Science Center
Station Name:	AY-68-28-406
Latitude:	29.56388889000000
Longitude:	-98.5994444000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	SSE	0.20	1,058.14	968.97	FED USGS

Site No:	USGS-293347098355400
Site Type:	Atmosphere
Formation Type:	
Date Drilled:	
Well Depth:	
Well Depth Unit:	
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Texas Water Science Center
Station Name:	Raingage at USGS S. Tx Program Ofc, San Antonio Tx
Latitude:	29.56393889000000
Longitude:	-98.5972556000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	S	0.23	1,228.60	970.09	FED USGS

Site No:	USGS-08181425
Site Type:	Facility: Outfall
Formation Type:	
Date Drilled:	
Well Depth:	
Well Depth Unit:	
Well Hole Depth:	

Well Hole Depth Unit:
Reporting Agency: USGS Texas Water Science Center
Station Name: Cedar Elm Ofl at Huebner Ck Trib, San Antonio, TX
Latitude: 29.56328378000000
Longitude: -98.5986316000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	SE	0.35	1,823.81	963.01	FED USGS

Site No: USGS-08181420
Site Type: Stream
Formation Type:
Date Drilled:
Well Depth:
Well Depth Unit:
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Texas Water Science Center
Station Name: Huebner Ck at De Zavala Rd, San Antonio, TX
Latitude: 29.56328377000000
Longitude: -98.5941870000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	E	0.44	2,317.87	969.82	FED USGS

Site No: USGS-293401098352701
Site Type: Land: Sinkhole
Formation Type:
Date Drilled:
Well Depth:
Well Depth Unit:
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Texas Water Science Center
Station Name: De Zavala Sinkhole
Latitude: 29.56717250000000
Longitude: -98.5911314000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	SE	0.56	2,964.43	982.17	FED USGS

Site No: USGS-293338098353001
Site Type: Well
Formation Type: Edwards and Associated Limestones
Date Drilled:

Well Depth:	416
Well Depth Unit:	ft
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Texas Water Science Center
Station Name:	AY-68-28-4 (E-43 Bexar)
Latitude:	29.56078386000000
Longitude:	-98.5919648000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	ENE	0.60	3,155.63	990.00	FED USGS

Site No:	USGS-293414098352101
Site Type:	Well
Formation Type:	Edwards and Associated Limestones
Date Drilled:	1950
Well Depth:	392
Well Depth Unit:	ft
Well Hole Depth:	392
Well Hole Depth Unit:	ft
Reporting Agency:	USGS Texas Water Science Center
Station Name:	AY-68-28-402
Latitude:	29.57078350000000
Longitude:	-98.5894648000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	S	0.60	3,147.07	951.94	FED USGS

Site No:	USGS-293328098355301
Site Type:	Stream
Formation Type:	
Date Drilled:	
Well Depth:	
Well Depth Unit:	
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Texas Water Science Center
Station Name:	De Zavala Basin
Latitude:	29.55800619000000
Longitude:	-98.5983538000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	E	0.72	3,818.51	985.73	FED USGS

Site No:	USGS-293400098351000

Site Type: Atmosphere
Formation Type:
Date Drilled:
Well Depth:
Well Depth Unit:
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Texas Water Science Center
Station Name: Grant Snyder House
Latitude: 29.56689475000000
Longitude: -98.5864090000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	N	0.80	4,234.51	962.93	FED USGS

Site No: USGS-293442098360101
Site Type: Well
Formation Type: Edwards and Associated Limestones
Date Drilled:
Well Depth: 350
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Texas Water Science Center
Station Name: AY-68-28-4 (E-36 Bexar)
Latitude: 29.57856100000000
Longitude: -98.6005762000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	ENE	0.84	4,419.52	999.00	FED USGS

Site No: USGS-293424098351101
Site Type: Well
Formation Type: Edwards and Associated Limestones
Date Drilled: 1954
Well Depth: 600
Well Depth Unit: ft
Well Hole Depth: 600
Well Hole Depth Unit: ft
Reporting Agency: USGS Texas Water Science Center
Station Name: AY-68-28-403
Latitude: 29.57356117000000
Longitude: -98.5866869000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	ENE	0.90	4,735.98	1,000.37	FED USGS

Site No: USGS-293425098350801
Site Type: Well
Formation Type: Edwards and Associated Limestones
Date Drilled: 19980603
Well Depth: 310
Well Depth Unit: ft
Well Hole Depth: 310
Well Hole Depth Unit: ft
Reporting Agency: USGS Texas Water Science Center
Station Name: AY-68-28-407
Latitude: 29.57361110000000
Longitude: -98.5855556000000

Groundwater Database

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	SSW	0.20	1,042.85	977.00	GWDB

Well Rep Track No:
State Well No: 6828406
Owner Name: Edwards Aquifer Auth. LUSUR #7
Drilling Start Dt:
Drilling Month: 3
Drilling Day: 14
Drilling Year: 1998
Well Depth: 304
Well Usage: Unused
Water Level Status:
Latitude: 29.5638890
Longitude: -98.5994450
Data Source: Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations
Well Info Report: https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6828406&Type=GWDB
Document Link: https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?Num=6828406&Cnty=Bexar

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	ENE	0.60	3,169.10	990.00	GWDB

Well Rep Track No:
State Well No: 6828402
Owner Name: H G Howell
Drilling Start Dt:
Drilling Month:
Drilling Day:
Drilling Year: 1950
Well Depth: 392

Well Usage:	Domestic
Water Level Status:	
Latitude:	29.5708330
Longitude:	-98.5894450
Data Source:	Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations
Well Info Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6828402&Type=GWDB
Document Link:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?Num=6828402&Cnty=Bexar

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	ENE	0.84	4,434.59	999.00	GWDB

Well Rep Track No:	
State Well No:	6828403
Owner Name:	T E Cook
Drilling Start Dt:	
Drilling Month:	
Drilling Day:	
Drilling Year:	1954
Well Depth:	600
Well Usage:	Domestic
Water Level Status:	
Latitude:	29.5736110
Longitude:	-98.5866670
Data Source:	Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations
Well Info Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6828403&Type=GWDB
Document Link:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?Num=6828403&Cnty=Bexar

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	ENE	0.90	4,735.98	1,000.37	GWDB

Well Rep Track No:	
State Well No:	6828407
Owner Name:	Edwards Aquifer Auth. LUSUR #23
Drilling Start Dt:	
Drilling Month:	6
Drilling Day:	5
Drilling Year:	1998
Well Depth:	310
Well Usage:	Unused
Water Level Status:	
Latitude:	29.5736111
Longitude:	-98.5855556
Data Source:	Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations
Well Info Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6828407&Type=GWDB
Document Link:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?

Num=6828407&Cnty=Bexar

Plotted Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	SW	0.44	2,325.91	1,002.84	WATER WELLS

WWD ID:	482834	Deg:	68
Grid No:	68-28-4	Sev Min:	28
TX Grid ID:	60010.0	Two Min:	4
TX Grid:	60427.0	Shape Length:	0.0
Perimeter:	17282.438	Shape Area:	0.00173605228048
County:	BEXAR		
Data Source :	Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	E	2.18	11,518.36	968.08	WATER WELLS

WWD ID:	482837	Deg:	68
Grid No:	68-28-5	Sev Min:	28
TX Grid ID:	60011.0	Two Min:	5
TX Grid:	60425.0	Shape Length:	0.0
Perimeter:	17284.084	Shape Area:	0.00173640693847
County:	BEXAR		
Data Source :	Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	N	2.58	13,611.70	1,037.83	WATER WELLS

WWD ID:	482829	Deg:	68
Grid No:	68-28-1	Sev Min:	28
TX Grid ID:	59674.0	Two Min:	1
TX Grid:	60090.0	Shape Length:	0.0
Perimeter:	17278.438	Shape Area:	0.00173597934904
County:	BEXAR		
Data Source :	Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	W	2.86	15,083.37	950.91	WATER WELLS

WWD ID:	482822	Deg:	68
Grid No:	68-27-6	Sev Min:	27
TX Grid ID:	60009.0	Two Min:	6
TX Grid:	60433.0	Shape Length:	0.0
Perimeter:	17282.484	Shape Area:	0.00173606324

Wells and Additional Sources Detail Report

County: BEXAR
Data Source : Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO

Plugged Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	NNW	0.26	1,352.20	994.30	PLUGGED WELLS

License No:	2669	Well Address 1:	5720 Hausman Rd.
Variance No:		Well Address 2:	
Plug Rpt Track No:	40634	Well City:	San Antonio
Well Rpt Track No:		Well Zip:	78249
Date Submitted:	2007-08-20	Owner Well No:	
No Wells Plugged:		Owner Name:	RL Worth & Associates
Plugger Name:	DEAN DAVENPORT	Owner Address 1:	7373 Broadway
Plugging Mtd Descr:		Owner Address 2:	
Plugging Date:	2006-08-17	Owner City:	San Antonio
Orig License No:		Owner State:	TX
Orig Driller Name:	Unknown	Owner Zip:	78209
Original Well Use:	Withdrawal of Water	Owner Oth Cntry:	
Orig Wel Use Descr:		Owner Country:	
Orig Drill Date:		County:	Bexar
Apprentice Reg No:		Latitude:	29.570555
Apprentice Signed:		Lat Degree:	29
Driller Signed:	DEAN DAVENPORT	Lat Minute:	34
Driller Address 1:	11844 Bandera Rd. PMB711	Lat Second:	14
Driller Address 2:		Longitude:	-98.600001
Driller City:	San Antonio	Long Degree:	98
Driller State:	TX	Long Minute:	36
Driller Zip:	78023	Long Second:	0
Driller Oth Cntry:		Hor Datum Type:	
Driller Country:		Grid No:	68-28-4
Elevation:		Loc Verfd by Drllr:	No
Company Name:	DAVENPORT DRILLING & PUMP SERVICE		
Original Company Name:			
Plugging Method:	Tremmie pipe cement from bottom to top		
Comments:	^EO		
Well Location Description:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	SSE	0.32	1,682.77	960.12	PLUGGED WELLS

License No:	3256	Well Address 1:	5873 Dezavala Rd
Variance No:		Well Address 2:	
Plug Rpt Track No:	9495	Well City:	San Antonio
Well Rpt Track No:		Well Zip:	78249
Date Submitted:	2003-01-28	Owner Well No:	

No Wells Plugged:		Owner Name:	USPO
Plugger Name:	Gary T. May	Owner Address 1:	10410 Perrin Beitel
Plugging Mtd Descr:		Owner Address 2:	
Plugging Date:	2002-07-18	Owner City:	San Antonio
Orig License No:	54776	Owner State:	TX
Orig Driller Name:	Robert Joiner	Owner Zip:	78217
Original Well Use:	Monitor	Owner Oth Cntry:	
Orig Wel Use Descr:		Owner Country:	
Orig Drill Date:	2002-06-25	County:	Bexar
Apprentice Reg No:		Latitude:	29.562501
Apprentice Signed:		Lat Degree:	29
Driller Signed:	Gary T. May	Lat Minute:	33
Driller Address 1:	4412 Bluemel Rd	Lat Second:	45
Driller Address 2:		Longitude:	-98.596111
Driller City:	San Antonio	Long Degree:	98
Driller State:	TX	Long Minute:	35
Driller Zip:	78240	Long Second:	46
Driller Oth Cntry:		Hor Datum Type:	
Driller Country:		Grid No:	68-28-4
Elevation:		Loc Verfd by Drllr:	No
Company Name:	Vortex Drilling Inc		
Original Company Name:			
Plugging Method:	Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet		
Comments:	Logged by TF		
Well Location Description:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	NW	0.34	1,778.55	989.96	PLUGGED WELLS

License No:	51651	Well Address 1:	5912 HAUSMAN RD.
Variance No:		Well Address 2:	
Plug Rpt Track No:	25059	Well City:	SAN ANTONIO
Well Rpt Track No:		Well Zip:	
Date Submitted:	2005-06-15	Owner Well No:	
No Wells Plugged:		Owner Name:	CENTEX HOMES/ PILAR CASTENADA
Plugger Name:	TROY DENNIS	Owner Address 1:	1354 N. LOOP 1604 E. STE 108
Plugging Mtd Descr:		Owner Address 2:	
Plugging Date:	2005-05-16	Owner City:	SAN ANTONIO
Orig License No:		Owner State:	TX
Orig Driller Name:		Owner Zip:	78232
Original Well Use:	Withdrawal of Water	Owner Oth Cntry:	
Orig Wel Use Descr:		Owner Country:	
Orig Drill Date:		County:	Bexar
Apprentice Reg No:		Latitude:	29.570555
Apprentice Signed:		Lat Degree:	29
Driller Signed:	TROY DENNIS	Lat Minute:	34

Wells and Additional Sources Detail Report

Driller Address 1:	P.O. BOX 791325	Lat Second:	14
Driller Address 2:		Longitude:	-98.602501
Driller City:	SAN ANTONIO	Long Degree:	98
Driller State:	TX	Long Minute:	36
Driller Zip:	78279	Long Second:	9
Driller Oth Cntry:		Hor Datum Type:	
Driller Country:		Grid No:	68-28-4
Elevation:		Loc Verfd by Drllr:	No
Company Name:	HASKIN ONE PUMP, LTD.		
Original Company Name:			
Plugging Method:	Tremmie pipe cement from bottom to top		
Comments:	SAWS PERMIT #3085		
Well Location Description:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	NNE	0.47	2,499.52	1,012.52	PLUGGED WELLS

License No:	4868	Well Address 1:	UTSA@ I-10
Variance No:		Well Address 2:	
Plug Rpt Track No:	6210	Well City:	SAN ANTONIO
Well Rpt Track No:		Well Zip:	
Date Submitted:	2002-05-06	Owner Well No:	MW 2
No Wells Plugged:		Owner Name:	EXXON/MOBILE CO.
Plugger Name:	JAMES E. NEAL	Owner Address 1:	P.O. BOX 4386
Plugging Mtd Descr:		Owner Address 2:	
Plugging Date:	2002-03-21	Owner City:	HOUSTON
Orig License No:	4868	Owner State:	TX
Orig Driller Name:	JAMES E. NEAL	Owner Zip:	77210
Original Well Use:	Monitor	Owner Oth Cntry:	
Orig Wel Use Descr:		Owner Country:	
Orig Drill Date:	2001-12-05	County:	Bexar
Apprentice Reg No:		Latitude:	29.573611
Apprentice Signed:		Lat Degree:	29
Driller Signed:	JAMES E. NEAL	Lat Minute:	34
Driller Address 1:	4412 BLEMEL RD.	Lat Second:	25
Driller Address 2:		Longitude:	-98.596111
Driller City:	SAN ANTONIO	Long Degree:	98
Driller State:	TX	Long Minute:	35
Driller Zip:	78240	Long Second:	46
Driller Oth Cntry:		Hor Datum Type:	
Driller Country:		Grid No:	68-28-4
Elevation:		Loc Verfd by Drllr:	No
Company Name:	VORTEX DRILLING, INC.		
Original Company Name:			
Plugging Method:	Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet		
Comments:	ENTERED BY WLS		

Wells and Additional Sources Detail Report

Well Location Description:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	NNE	0.47	2,499.52	1,012.52	PLUGGED WELLS

License No:	4868	Well Address 1:	UTSA@ I-10
Variance No:		Well Address 2:	
Plug Rpt Track No:	6209	Well City:	SAN ANTONIO
Well Rpt Track No:		Well Zip:	
Date Submitted:	2002-05-06	Owner Well No:	MW 1
No Wells Plugged:		Owner Name:	EXXON/MOBILE CO.
Plugger Name:	JAMES E. NEAL	Owner Address 1:	P.O. BOX 4386
Plugging Mtd Descr:		Owner Address 2:	
Plugging Date:	2002-03-21	Owner City:	HOUSTON
Orig License No:	4868	Owner State:	TX
Orig Driller Name:	JAMES E. NEAL	Owner Zip:	77210
Original Well Use:	Monitor	Owner Oth Cntry:	
Orig Wel Use Descr:		Owner Country:	
Orig Drill Date:	2001-12-05	County:	Bexar
Apprentice Reg No:		Latitude:	29.573611
Apprentice Signed:		Lat Degree:	29
Driller Signed:	JAMES E. NEAL	Lat Minute:	34
Driller Address 1:	4412 BLEMEL RD.	Lat Second:	25
Driller Address 2:		Longitude:	-98.596111
Driller City:	SAN ANTONIO	Long Degree:	98
Driller State:	TX	Long Minute:	35
Driller Zip:	78240	Long Second:	46
Driller Oth Cntry:		Hor Datum Type:	
Driller Country:		Grid No:	68-28-4
Elevation:		Loc Verfd by Drllr:	No
Company Name:	VORTEX DRILLING, INC.		
Original Company Name:			
Plugging Method:	Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet		
Comments:	ENTERED BY WLS		
Well Location Description:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	NNE	0.47	2,499.52	1,012.52	PLUGGED WELLS

License No:	4868	Well Address 1:	UTSA@ I-10
Variance No:		Well Address 2:	
Plug Rpt Track No:	6211	Well City:	SAN ANTONIO
Well Rpt Track No:		Well Zip:	
Date Submitted:	2002-05-06	Owner Well No:	MW 3
No Wells Plugged:		Owner Name:	EXXON/MOBILE CO.
Plugger Name:	JAMES E. NEAL	Owner Address 1:	P.O. BOX 4386

Plugging Mtd Descr:		Owner Address 2:	
Plugging Date:	2002-03-21	Owner City:	HOUSTON
Orig License No:	4868	Owner State:	TX
Orig Driller Name:	JAMES E. NEAL	Owner Zip:	77210
Original Well Use:	Monitor	Owner Oth Cntry:	
Orig Wel Use Descr:		Owner Country:	
Orig Drill Date:	2001-12-05	County:	Bexar
Apprentice Reg No:		Latitude:	29.573611
Apprentice Signed:		Lat Degree:	29
Driller Signed:	JAMES E. NEAL	Lat Minute:	34
Driller Address 1:	4412 BLEMEL RD.	Lat Second:	25
Driller Address 2:		Longitude:	-98.596111
Driller City:	SAN ANTONIO	Long Degree:	98
Driller State:	TX	Long Minute:	35
Driller Zip:	78240	Long Second:	46
Driller Oth Cntry:		Hor Datum Type:	
Driller Country:		Grid No:	68-28-4
Elevation:		Loc Verfd by Drllr:	No
Company Name:	VORTEX DRILLING, INC.		
Original Company Name:			
Plugging Method:	Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet		
Comments:	ENTERED BY WLS		
Well Location Description:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	ENE	0.59	3,090.08	989.94	PLUGGED WELLS

License No:	54402	Well Address 1:	5281 Casa Bella
Variance No:		Well Address 2:	
Plug Rpt Track No:	50167	Well City:	San Antonio
Well Rpt Track No:		Well Zip:	78249
Date Submitted:	2008-09-26	Owner Well No:	AY-68-28-402
No Wells Plugged:		Owner Name:	Muslim Children Ed & Civic Ctr
Plugger Name:	Reed Scruby	Owner Address 1:	5281 Casa Bella St.
Plugging Mtd Descr:		Owner Address 2:	
Plugging Date:	2008-09-23	Owner City:	San Antonio
Orig License No:		Owner State:	TX
Orig Driller Name:	Unknown	Owner Zip:	78249
Original Well Use:	Withdrawal of Water	Owner Oth Cntry:	
Orig Wel Use Descr:		Owner Country:	
Orig Drill Date:		County:	Bexar
Apprentice Reg No:	57740	Latitude:	29.570833
Apprentice Signed:	Steven Castor	Lat Degree:	29
Driller Signed:	Reed Scruby	Lat Minute:	34
Driller Address 1:	P. O. Box 3340	Lat Second:	15
Driller Address 2:		Longitude:	-98.589722

Wells and Additional Sources Detail Report

Driller City:	Bandera	Long Degree:	98
Driller State:	TX	Long Minute:	35
Driller Zip:	78003	Long Second:	23
Driller Oth Cntry:		Hor Datum Type:	
Driller Country:		Grid No:	68-28-4
Elevation:		Loc Verfd by Drllr:	No
Company Name:	Aquatech Drilling, Inc.		
Original Company Name:			
Plugging Method:	Tremmie pipe cement from bottom to top		
Comments:	210' - 305' - Gravel 0' - 210' - cement		
Well Location Description:			

Submitted Drillers Report Database

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SSW	0.10	511.35	983.94	SDR WELLS

License No:	55002	Well Address1:	12814 Cogburn Ave.
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	241442	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	B-1
Apprentice Reg No:		Owner Name:	Alamo Tees
No of Wells Drill:		Owner Addr1:	12814 Cogburn Ave.
Date Submitted:	2011-01-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78249
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2011-01-14	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2011-01-14	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.565278
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	55

Wells and Additional Sources Detail Report

Chemical Analysis:		Longitude:	-98.598889
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	56
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=241442&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SSW	0.10	511.35	983.94	SDR WELLS

License No:	55002	Well Address1:	12814 Cogburn Ave.
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	241444	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	B-3
Apprentice Reg No:		Owner Name:	Alamo Tees
No of Wells Drill:		Owner Addr1:	12814 Cogburn Ave.
Date Submitted:	2011-01-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78249
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2011-01-14	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2011-01-14	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.565278
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	55
Chemical Analysis:		Longitude:	-98.598889
Injurious Water:		Long Degree:	98

Wells and Additional Sources Detail Report

County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	56
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=241444&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SSW	0.10	511.35	983.94	SDR WELLS

License No:	55002	Well Address1:	12814 Cogburn Ave.
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	241443	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	B-2
Apprentice Reg No:		Owner Name:	Alamo Tees
No of Wells Drill:		Owner Addr1:	12814 Cogburn Ave.
Date Submitted:	2011-01-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78249
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2011-01-14	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2011-01-14	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.565278
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	55
Chemical Analysis:		Longitude:	-98.598889
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	56

Wells and Additional Sources Detail Report

Grid No:	68-28-4
Company Name:	Vortex Drilling, Inc.
Well Location Description:	
Comments:	
Data Source:	Full SDR Database; SDRDB Well Location (Map)
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=241443&Type=SDR-Well

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186033	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB10
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		

Wells and Additional Sources Detail Report

Well Location Description:
Comments:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Drillers Well Report: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186033&Type=SDR-Well

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186028	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB04
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			

Wells and Additional Sources Detail Report

Data Source:	Full SDR Database; SDRDB Well Location (Map)
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186028&Type=SDR-Well

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186031	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB08
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186031&Type=SDR-Well		

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186029	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB06
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186029&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186027	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB03
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186027&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

Wells and Additional Sources Detail Report

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186035	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB11
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186035&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	

Wells and Additional Sources Detail Report

Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186026	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB02
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186026&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186025	Well Zip:	78249

Wells and Additional Sources Detail Report

Orig Well Rpt Trk No:		Owner Well No:	DP2-SB01
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186025&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186030	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB07
Apprentice Reg No:		Owner Name:	City of San Antonio

Wells and Additional Sources Detail Report

No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186030&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SW	0.28	1,498.21	993.23	SDR WELLS

License No:	55002	Well Address1:	6003 De Zavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	186032	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	DP2-SB09
Apprentice Reg No:		Owner Name:	City of San Antonio
No of Wells Drill:		Owner Addr1:	P.O. Box 839966
Date Submitted:	2009-07-14	Owner Addr2:	

Wells and Additional Sources Detail Report

Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78283
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2009-06-25	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-06-25	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.563334
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	48
Chemical Analysis:		Longitude:	-98.601389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	36
Known Loc Error:	No	Long Second:	5
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=186032&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	NNE	0.53	2,790.37	1,017.35	SDR WELLS

License No:	55002	Well Address1:	IH-10/UTSA Blvd.
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	232346	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	B-2
Apprentice Reg No:		Owner Name:	Valero Energy Corp. #1054
No of Wells Drill:		Owner Addr1:	P.O. Box 696000
Date Submitted:	2010-10-11	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX

Seal Method:	Hand Mixed	Owner Zip:	78269
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2010-10-07	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2010-10-07	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.574444
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	34
Pump Depth:		Lat Second:	28
Chemical Analysis:		Longitude:	-98.596111
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	46
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=232346&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	NNE	0.53	2,790.37	1,017.35	SDR WELLS

License No:	55002	Well Address1:	IH-10/UTSA Blvd.
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	232345	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	B-1
Apprentice Reg No:		Owner Name:	Valero Energy Corp. #1054
No of Wells Drill:		Owner Addr1:	P.O. Box 696000
Date Submitted:	2010-10-11	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78269
Seal Mthd Oth Desc:		Owner Country:	

Wells and Additional Sources Detail Report

Plugged w/i 48Hrs:	No	Driller Name:	Gary B Leifeste
Drilling Start Dt:	2010-10-07	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2010-10-07	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary B. Leifeste	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.574444
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	34
Pump Depth:		Lat Second:	28
Chemical Analysis:		Longitude:	-98.596111
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	46
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=232345&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SSE	0.70	3,707.72	976.41	SDR WELLS

License No:	3256	Well Address1:	6201 Farinon Drive
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	181678	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	MW-7
Apprentice Reg No:		Owner Name:	University Park Tech Center V Building
No of Wells Drill:		Owner Addr1:	6201 Farinon Drive
Date Submitted:	2009-06-09	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Other	Owner Zip:	78249
Seal Mthd Oth Desc:	Handmixed	Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary T May
Drilling Start Dt:	2009-05-14	Driller Address1:	4412 Bluemel Road

Drilling End Dt:	2009-05-14	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary T. May	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.556667
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	24
Chemical Analysis:		Longitude:	-98.596111
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	46
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=181678&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SSE	0.70	3,707.72	976.41	SDR WELLS

License No:	3256	Well Address1:	6201 Farinon Drive
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	181667	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	MW-4
Apprentice Reg No:		Owner Name:	University Park Tech Center V Building
No of Wells Drill:		Owner Addr1:	6201 Farinon Drive
Date Submitted:	2009-06-09	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Other	Owner Zip:	78249
Seal Mthd Oth Desc:	Handmixed	Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary T May
Drilling Start Dt:	2009-05-14	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-05-14	Driller Addr2:	
Proposed Use:	Monitor	Driller City:	San Antonio

Wells and Additional Sources Detail Report

Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary T. May	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.556667
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	24
Chemical Analysis:		Longitude:	-98.596111
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	46
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=181667&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SSE	0.70	3,707.72	976.41	SDR WELLS

License No:	3256	Well Address1:	6201 Farinon Drive
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	181676	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	MW-5
Apprentice Reg No:		Owner Name:	University Park Tech Center V Building
No of Wells Drill:		Owner Addr1:	6201 Farinon Drive
Date Submitted:	2009-06-09	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Other	Owner Zip:	78249
Seal Mthd Oth Desc:	Handmixed	Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary T May
Drilling Start Dt:	2009-05-14	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-05-14	Driller Addr2:	
Proposed Use:	Monitor	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240

Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary T. May	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.556667
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	24
Chemical Analysis:		Longitude:	-98.596111
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	46
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=181676&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	SSE	0.70	3,707.72	976.41	SDR WELLS

License No:	3256	Well Address1:	6201 Farinon Drive
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	181677	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	MW-6
Apprentice Reg No:		Owner Name:	University Park Tech Center V Building
No of Wells Drill:		Owner Addr1:	6201 Farinon Drive
Date Submitted:	2009-06-09	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Other	Owner Zip:	78249
Seal Mthd Oth Desc:	Handmixed	Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Gary T May
Drilling Start Dt:	2009-05-14	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2009-05-14	Driller Addr2:	
Proposed Use:	Monitor	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	

Wells and Additional Sources Detail Report

Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Gary T. May	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.556667
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	24
Chemical Analysis:		Longitude:	-98.596111
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	46
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=181677&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	E	0.73	3,873.67	979.00	SDR WELLS

License No:	58200	Well Address1:	5203 Dezavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	292637	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	SB-1
Apprentice Reg No:		Owner Name:	Tetco Store #30
No of Wells Drill:		Owner Addr1:	1777 NE Loop 410, Ste. 1500
Date Submitted:	2012-07-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78217
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Martin Casarez
Drilling Start Dt:	2012-07-13	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2012-07-13	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	

Wells and Additional Sources Detail Report

Driller Signed:	Martin Casarez	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.565001
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	54
Chemical Analysis:		Longitude:	-98.586389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	11
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=292637&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	E	0.73	3,873.67	979.00	SDR WELLS

License No:	58200	Well Address1:	5203 Dezavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	292638	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	SB-2
Apprentice Reg No:		Owner Name:	Tetco Store #30
No of Wells Drill:		Owner Addr1:	1777 NE Loop 410, Ste. 1500
Date Submitted:	2012-07-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78217
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Martin Casarez
Drilling Start Dt:	2012-07-13	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2012-07-13	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Martin Casarez	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	

Wells and Additional Sources Detail Report

Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.565001
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	54
Chemical Analysis:		Longitude:	-98.586389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	11
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=292638&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	E	0.73	3,873.67	979.00	SDR WELLS

License No:	4868	Well Address1:	5203 Dezavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	292641	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	SB-5
Apprentice Reg No:		Owner Name:	Tetco Store #30
No of Wells Drill:		Owner Addr1:	1777 NE Loop 410, Ste. 1500
Date Submitted:	2012-07-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78217
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	James E Neal
Drilling Start Dt:	2012-07-13	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2012-07-13	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	James E. Neal	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	

Wells and Additional Sources Detail Report

Complt by Driller:		Latitude:	29.565001
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	54
Chemical Analysis:		Longitude:	-98.586389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	11
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=292641&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	E	0.73	3,873.67	979.00	SDR WELLS

License No:	4868	Well Address1:	5203 Dezavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	292640	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	SB-4
Apprentice Reg No:		Owner Name:	Tetco Store #30
No of Wells Drill:		Owner Addr1:	1777 NE Loop 410, Ste. 1500
Date Submitted:	2012-07-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78217
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	James E Neal
Drilling Start Dt:	2012-07-13	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2012-07-13	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	James E. Neal	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.565001
Pump Type:		Lat Degree:	29

Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	54
Chemical Analysis:		Longitude:	-98.586389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	11
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=292640&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	E	0.73	3,873.67	979.00	SDR WELLS

License No:	4868	Well Address1:	5203 Dezavala Road
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	San Antonio
Well Rpt Track No:	292639	Well Zip:	78249
Orig Well Rpt Trk No:		Owner Well No:	SB-3
Apprentice Reg No:		Owner Name:	Tetco Store #30
No of Wells Drill:		Owner Addr1:	1777 NE Loop 410, Ste. 1500
Date Submitted:	2012-07-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	San Antonio
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78217
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	James E Neal
Drilling Start Dt:	2012-07-13	Driller Address1:	4412 Bluemel Road
Drilling End Dt:	2012-07-13	Driller Addr2:	
Proposed Use:	Environmental Soil Boring	Driller City:	San Antonio
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78240
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	James E. Neal	Dist to Prop Line:	
Apprentice Signed:		Dist Verifi Method:	
Surface Compl:	Alternative Procedure Used	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.565001
Pump Type:		Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	33
Pump Depth:		Lat Second:	54

Wells and Additional Sources Detail Report

Chemical Analysis:		Longitude:	-98.586389
Injurious Water:		Long Degree:	98
County:	Bexar	Long Minute:	35
Known Loc Error:	No	Long Second:	11
Grid No:	68-28-4		
Company Name:	Vortex Drilling, Inc.		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=292639&Type=SDR-Well		

Well Log Reports from Plotted Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	ENE	0.55	2,881.05	988.55	TCEQ WELL LOGS

Grid No:	68-28-4
Date Drilled:	04/30/1995
Owners Name:	JIM WALKER
County:	BEXAR
Water Usage:	DOMESTIC
Static Level:	264
Depth Drilled:	354
Latitude:	29.570488
Longitude:	-98.590261

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	N	0.76	4,010.02	998.67	TCEQ WELL LOGS

Grid No:	68-28-4
Date Drilled:	12/06/1982
Owners Name:	GRACE PRESBYTERIAN CHURCH
County:	BEXAR
Water Usage:	PUBLIC SUPPLY
Static Level:	170
Depth Drilled:	450
Latitude:	29.578007
Longitude:	-98.597077

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *BEXAR* County: **3**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *BEXAR* County

No Measures/Homes:	57
Geometric Mean:	0.8
Arithmetic Mean:	1.1
Median:	0.8
Maximum:	6.7
% >4 pCi/L:	4
% >20 pCi/L:	0
Notes on Data Table:	TABLE 1. Screening indoor radon data from the State/EPA Residential Radon Survey of Texas conducted during 1990-91. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

Appendix

Federal Sources

FEMA National Flood Hazard Layer — **FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data — **INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data — **PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level — **RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS) — **SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database — **SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data — **US WETLAND**

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo — **US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology — **US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System — **FED USGS**

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The data includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

State Sources

Appendix

Fort Bend Subsidence District Water Wells — **WW FORT BEND**

List of water wells in the Fort Bend Subsidence District, boundaries of which are defined as all the territory within Fort Bend County. The Fort Bend Subsidence District was created by the Texas Legislature in 1989 as a conservation and reclamation district to control land subsidence and manage groundwater resources through regulation, conservation, and coordination with suppliers of alternative water sources to assure an adequate quantity and quality of water for the future. The District's purpose is to provide for the regulation of the withdrawal of groundwater within the District to prevent subsidence that contributes to flooding, inundation or overflow of areas within the District, including rising waters resulting from storms or hurricanes.

Groundwater Database — **GWDB**

The Texas Water Development Board (TWDB) Groundwater Database (GWDB) contains information on selected water wells, springs, oil/gas tests (that were originally intended to be or were converted to water wells), water levels and water quality.

Harris Galveston Subsidence District Water Wells — **WW HARRIS GAL**

List of water wells in the Harris-Galveston Subsidence District (HGSD). The HGSD was created by the 64th Texas Legislature as an underground water conservation district in 1975 to provide regulation of groundwater withdrawal to control subsidence.

High Plains Water Wells — **WW HIGH PLAINS**

Inventory of water wells in the High Plains Underground Water Conservation District No. 1 (HPUWCD), which was created in 1951. As a political subdivision of Texas, HPUWCD is charged with protecting, preserving and conserving aquifers within the District's 16-county service area.

Oil and Gas Wells — **OGW**

Oil and Gas Well Data made available by the Railroad Commission of Texas.

Pipelines — **PIPELINE**

Locations of interstate and intrastate gas and liquids pipelines, made available by the Railroad Commission of Texas (RRC). Data is derived from RRC T-4 Permit applications ("Application for Permit to Operate a Pipeline in Texas"), which facilitate regulatory functions of the Pipeline Safety Section of the RRC. The digital data used to create the files was taken from the forms system within the RRC, from the General Land Office (GLO) county survey maps, and, United States Geological Survey (USGS) quadrangle maps.

Plotted Water Wells — **WATER WELLS**

A list of water wells in Texas that are plotted in Texas Commission on Environmental Quality (TCEQ) Water Well Report Viewer. The database provides the best representation of water well driller's reports available to the TCEQ as of the date of records collected. Note: records are plotted using the Texas Land Survey Grid System, identifying the 2.5 minute grid where wells are located but do not contain the offset necessary to pinpoint a specific location. Therefore, plotted locations are accurate to a resolution of 2.5 minute (2-3 miles).

Plugged Water Wells — **PLUGGED WELLS**

A list of plugged water wells from the Submitted Drillers Report (SDR) Database. This list is maintained by the Texas Water Development Board (TWDB).

Public Water Systems Wells and Surface Intakes — **PWSW**

Public Water Supply Water Well Sites and Public Water Supply Surface Water Intake Sites in the State of Texas made available by the Texas Commission on Environmental Quality (TCEQ). The locations for these layers were obtained by the Water Supply Division as recorded from various sources, and the data provider indicates that some locational errors have been identified. As resources allow, TCEQ intends to improve the accuracy of these locations to meet the standards set forth in the agency's Positional Data Policy.

Submitted Drillers Report Database — **SDR WELLS**

The Submitted Drillers Report (SDR) Database is populated from the online Texas Well Report Submission and Retrieval System (TWRSRS) which is a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application that registered water-well drillers use to submit their required reports.

Surveys — **SURVEY**

Survey boundaries made available by the Railroad Commission of Texas (RRC). A survey is a certified

measured description of a piece of land. In Texas, original surveys were performed as part of the patenting process whereby land was transferred from the public domain. These "patent surveys", recorded at the Texas General Land Office (GLO), constitute an official land grid for the State and are the basis for subsequent land surveys. The digital data used to create surveys were taken from the forms system within the RRC, from the General Land Office (GLO) county survey maps, and United States Geological Survey (USGS) quadrangle maps.

Underground Injection Control **UIC**

List of underground injection control (UIC) permits in the Texas Commission on Environmental Quality (TCEQ) Central Registry database. Includes Class I, Class III, Class IV, Class 5, and non permitted UICs; does not include injection wells regulated by the Railroad Commission of Texas.

Water Utility Database **WUD**

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

Well Log Reports from Plotted Water Wells **TCEQ WELL LOGS**

Locations of TCEQ Water Wells as derived from well logs in the Texas Commission on Environmental Quality (TCEQ) Water Well Report Viewer, which includes unnumbered water wells and those plotted to 2.5 minute grid locations (2-3 miles). In this collection of Well Log Reports, locations have been manually verified.

Liability Notice

Reliance on information in Report: The Physical Setting Report (PSR) DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a review of environmental databases and physical characteristics for the site or adjacent properties.

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Aboveground Storage Tank Facility Plan Application (TCEQ-0575)

BRAUN INTERTEC

Aboveground Storage Tank Facility Plan Application

Texas Commission on Environmental Quality

For Permanent Storage on The Edwards Aquifer Recharge and Transition Zones And Relating to 30 TAC §213.5(e), 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 **Aboveground Storage Tank Facility Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Optum Rx, Inc. / Rashun Stinson

Date: 5/14/2024

Signature of Customer/Agent:

Regulated Entity Name: Optum Pharmacy 704

Aboveground Storage Tank (AST) Facility Information

1. Tanks and substance stored:

Table 1 - Tank and Substance Storage

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
1	2,100	Diesel Fuel	Steel
2			
3			
4			

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
5			

Total x 1.5 = 3,150 **Gallons**

2. ☐ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

   ☒ **Attachment A - Alternative Methods of Secondary Containment**. Alternative methods for providing secondary containment are proposed. Specifications that show equivalent protection for the Edwards Aquifer are attached.

3. Inside dimensions and capacity of containment structure(s):

Table 2 - Secondary Containment

Length (L) (Ft.)	*Width (W) (Ft.)*	*Height (H) (Ft.)*	*L x W x H = (Ft3)*	*Gallons*
25	7.67	2.5	479.4	3586.2

Total: 3586.2 **Gallons**

4. ☒ All piping, hoses, and dispensers will be located inside the containment structure.

   ☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
   - ☐ The piping will be aboveground
   - ☐ The piping will be underground

5. ☒ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of Steel.

6. ☒ **Attachment B - Scaled Drawing(s) of Containment Structure**. A scaled drawing of the containment structure that shows the following is attached:

   - ☒ Interior dimensions (length, width, depth and wall and floor thickness).
   - ☒ Internal drainage to a point convenient for the collection of any spillage.
   - ☒ Tanks clearly labeled.
   - ☒ Piping clearly labeled.
   - ☒ Dispenser clearly labeled.

Site Plan Requirements

Items 7 - 18 must be included on the Site Plan.

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

   Site Plan Scale: 1" = 120'.

8. 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): Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs), Panel 0230G, Map Number 48029C0230G, September 29, 2010.

9. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.

   ☐ The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.

10. 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.

11. 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 C - Exception to the Geologic Assessment**. A request and justification for an exception to a portion of the Geologic Assessment is attached.

12. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.

13. ☐ Areas of soil disturbance and areas which will not be disturbed.

14. ☐ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

15. ☐ Locations where soil stabilization practices are expected to occur.

16. ☐ Surface waters (including wetlands).

    ☒ N/A

17. ☐ Locations where stormwater discharges to surface water or sensitive features.

    ☒ There will be no discharges to surface water or sensitive features.

18. ☒ Legal boundaries of the site are shown.

Best Management Practices

19. ☒ Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

    ☐ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.

    ☒ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

20. ☒ All stormwater accumulating inside the containment structure will be disposed of through an authorized waste disposal contractor.

    ☒ Containment area will be covered by a roof.

    ☐ Containment area will not be covered by a roof.

    ☐ A description of the alternate method of stormwater disposal is submitted for the executive director's review and approval and is attached.

21. ☒ **Attachment D - Spill and Overfill Control**. A site-specific description of the methods to be used at the facility for spill and overfill control is attached.

22. ☒ **Attachment E - Response Actions to Spills**. A site-specific description of the planned response actions to spills that will take place at the facility is attached.

Administrative Information

23. A Water Pollution Abatement Plan (WPAP) is required for construction of any associated commercial, industrial or residential project located on the Recharge Zone.

    ☐ The WPAP application for this project was approved by letter dated _____. A copy of the approval letter is attached at the end of this application.

☐ The WPAP application for this project was submitted to the TCEQ on _____, but has not been approved.

☐ A WPAP application is required for an associated project, but it has not been submitted.

☐ There will be no building or structure associated with this project. In the event a building or structure is needed in the future, the required WPAP will be submitted to the TCEQ.

☒ The proposed AST is located on the Transition Zone and a WPAP is not required. Information requested in 30 TAC 213.5 subsection (b) (4)(B) and (C) and (5) is provided with this application. (Forms TCEQ-0600 Permanent Stormwater Section and TCEQ-0602 Temporary Stormwater Section or Stormwater Pollution Prevention Plan/SW3P).

24. ☒ This facility is subject to the requirements for the reporting and cleanup of surface spills and overfills pursuant to 30 TAC 334 Subchapter D relating to Release Reporting and Corrective Action.

25. ☒ 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.

26. ☒ Any modification of this AST Facility Plan application will require executive director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

Attachment A
Alternative Methods of Secondary Containment

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

Diesel fuel is stored in a belly tank inside of the generator cage and can contain a maximum of 2,100 gallons of diesel fuel. The belly tank is contained within an outer tank, which is approximately 25 feet long by 7.67 feet wide by 2.5 feet high per manufacturer's specifications, with a capacity of 479.3 cubic feet, or 3,586 gallons. The dual wall tank base has the capacity to contain, at minimum, 110 percent of the primary tank capacity based on manufacturer's specifications. The belly tank is covered by the exterior cage of the generator, therefore, no stormwater or other fluids besides the diesel fuel will be able to take up space within the exterior tank.

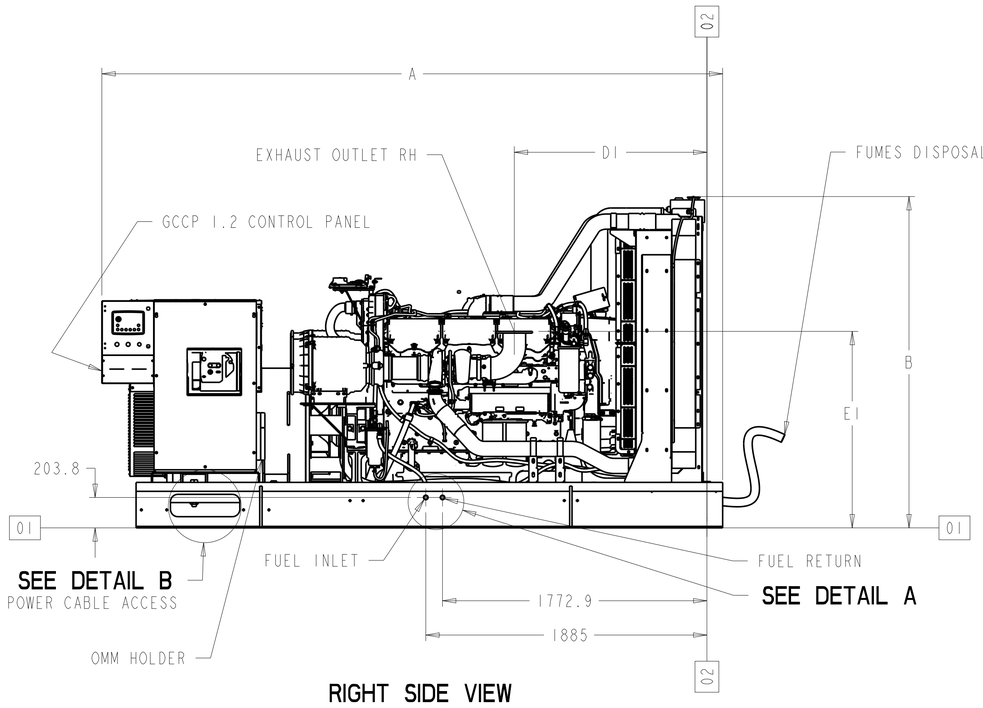
The tank has a direct reading fuel level gauge and is equipped with a leak detection switch. The interstitial space between the belly tank and the exterior tank is equipped with a leak alarm float switch, which will notify Site personnel if there is a leak.

Attachment B

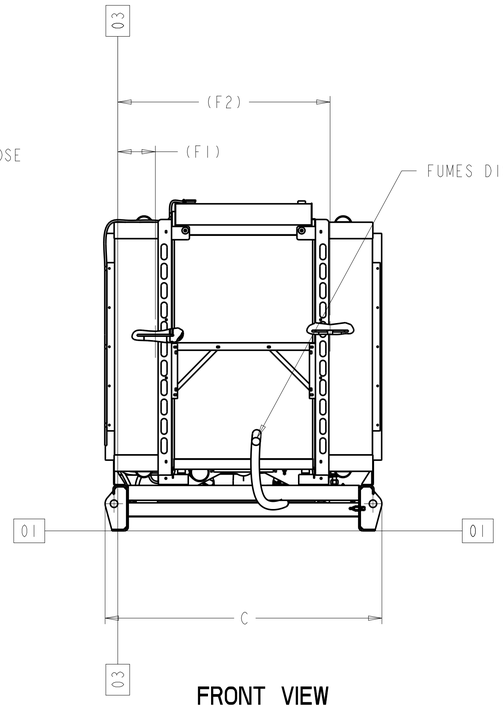
Scaled Drawings of Containment Structures

BRAUN INTERTEC

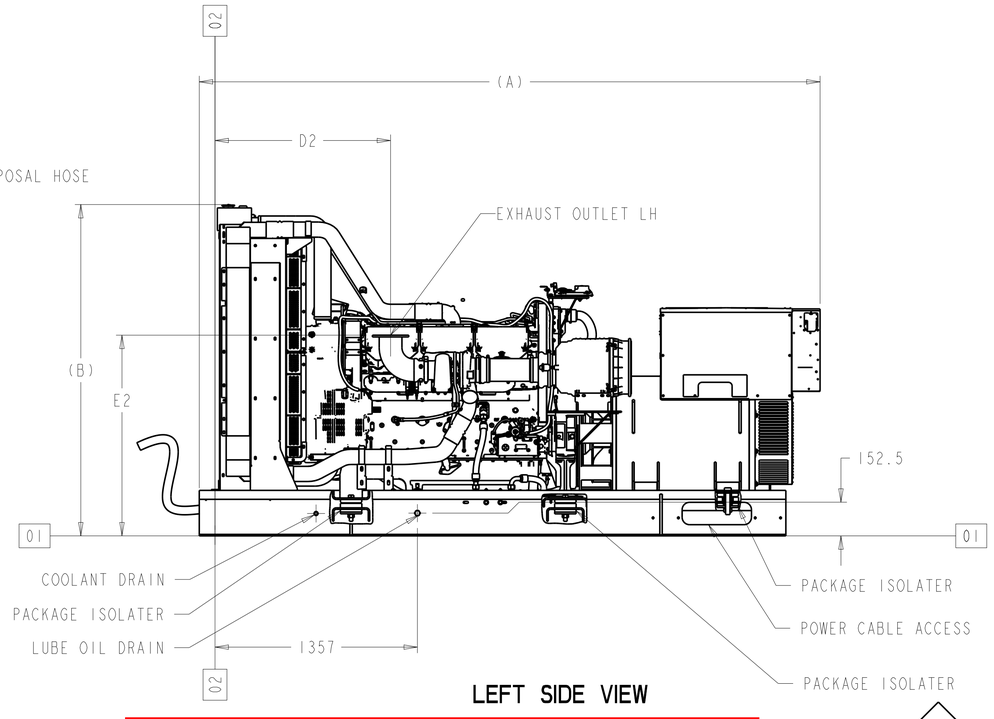
MECHANICAL DRAWINGS



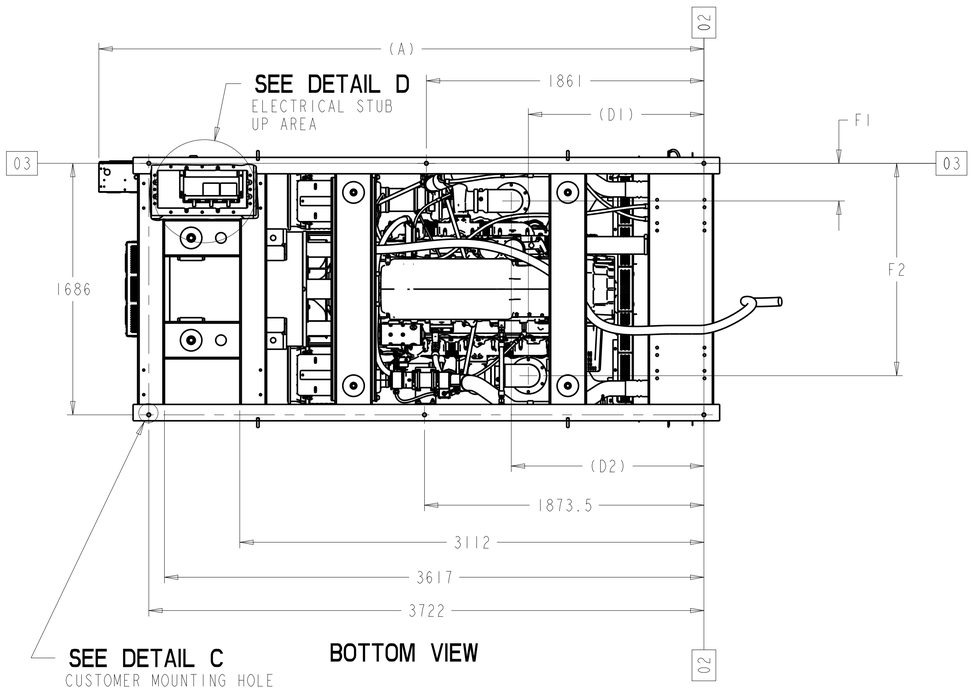
RIGHT SIDE VIEW



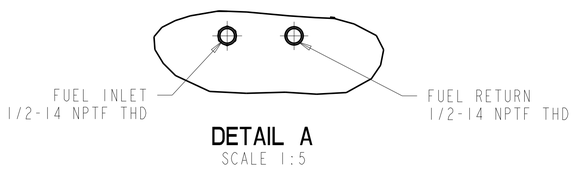
FRONT VIEW



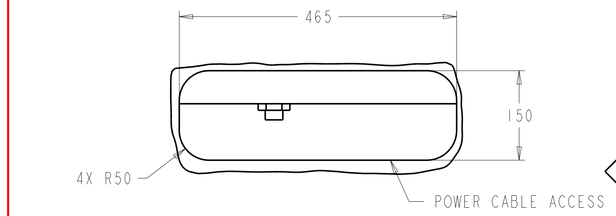
LEFT SIDE VIEW



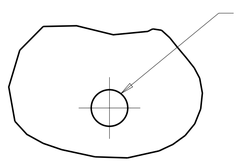
BOTTOM VIEW



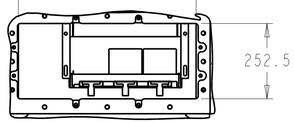
DETAIL A
SCALE 1:5



DETAIL B
SCALE 1:5
BOTH SIDE



DETAIL C
SCALE 1:2



DETAIL D
SCALE 1:10
BREAKER BOX ENTRY DETAILS

PRELIMINARY PRINT
05-MAY-2021

MED VEE GC NA OPEN GENSET

			PACKAGE RATING		PACKAGE LENGTH	PACKAGE HEIGHT	PACKAGE WIDTH	EXHAUST X	EXHAUST Y	EXHAUST Z	WEIGHT (WET)
MODEL	TOP LEVEL CODE	ENGINE	POWER/ FREQUENCY	VOLTAGE(V)	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D1/D2	DIMENSION E1/E2	DIMENSION F1/F2	kg
D800 GC	C27DRA6	C27	800ekW/60hz	480V	4175	2217.8	1856	1292.1/1177.0	1317.4/1345.5	251.7/1423.1	6212
D1000 GC	C32DRA0	C32	1000ekW/60hz	480V	4175	2217.8	1856	1292.1/1177.0	1317.4/1345.5	251.7/1423.1	6654
D1250 GC	C32DRA1	C32	1250ekW/60hz	480V	4175	2268	2090.5	1292.1/1177.0	1318.4/1345.9	251.7/1423.1	7156

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL

Caterpillar: Confidential Yellow

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN mm
DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X / SECONDARY

THIRD ANGLE PROJECTION

SHEET 1 OF 9

DWG CONTROL W961

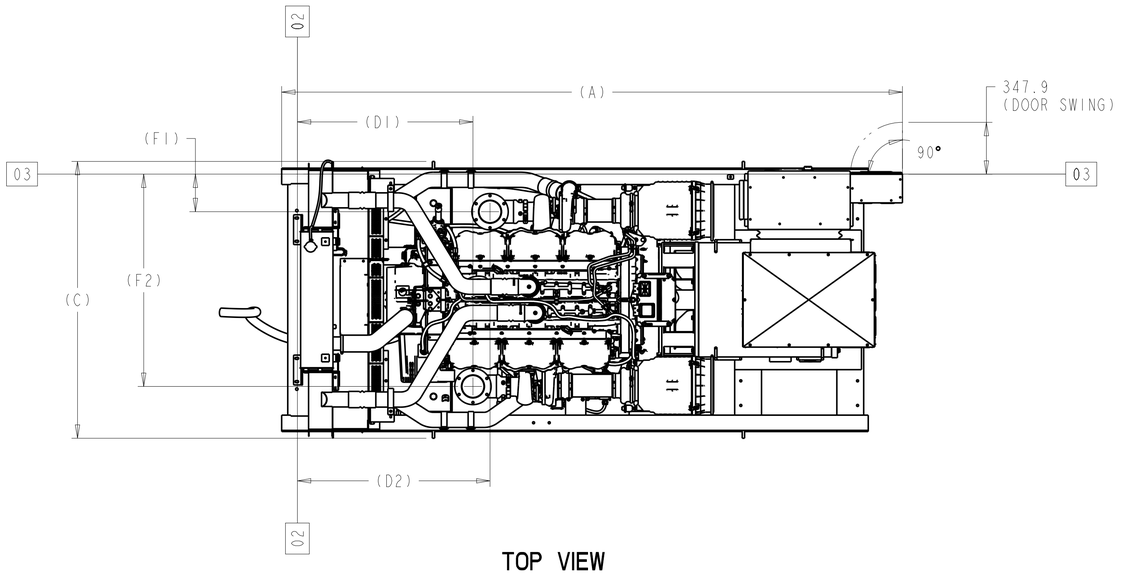
CATERPILLAR

INSTALLATION-ENG

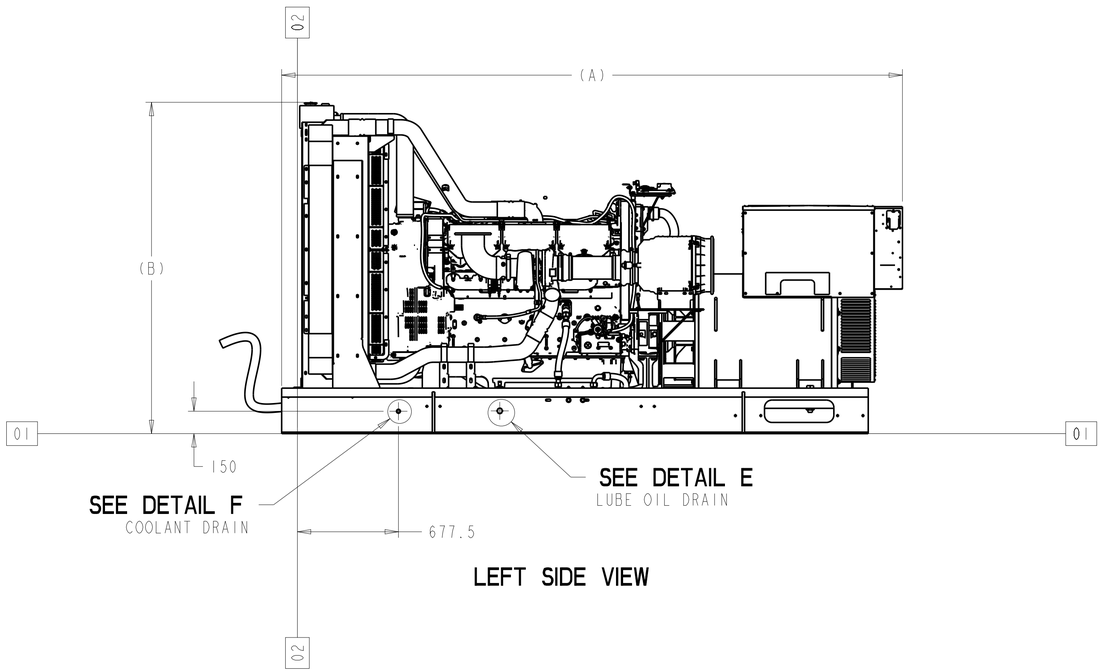
MED VEE GC NA

614-6394 VER - CHG 00 D

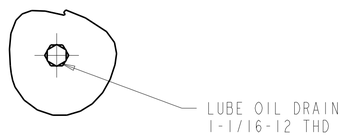
PRELIMINARY PRINT
05-MAY-2021



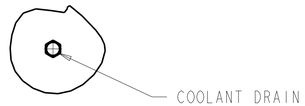
TOP VIEW



LEFT SIDE VIEW



DETAIL E
SCALE 1:5



DETAIL F
SCALE 1:5

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL

Caterpillar: Confidential Yellow

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm
DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X / SECONDARY

THIRD ANGLE PROJECTION

SHEET 2 OF 9

DWG CONTROL W961

CATERPILLAR

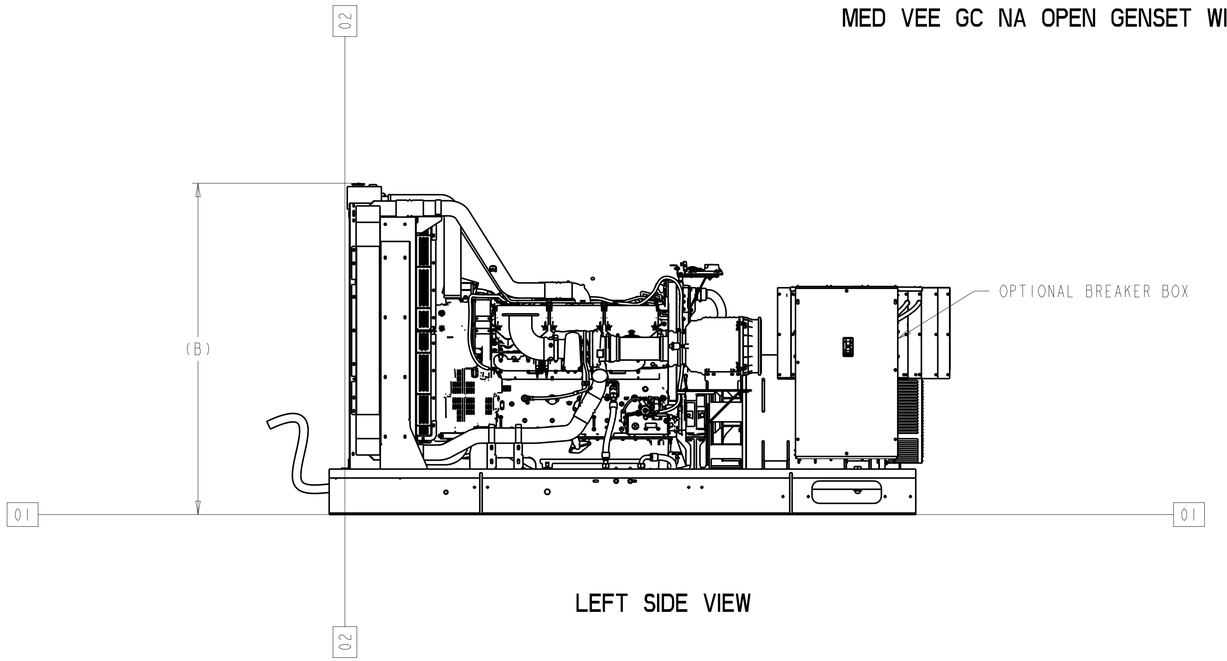
INSTALLATION-ENG

MED VEE GC NA

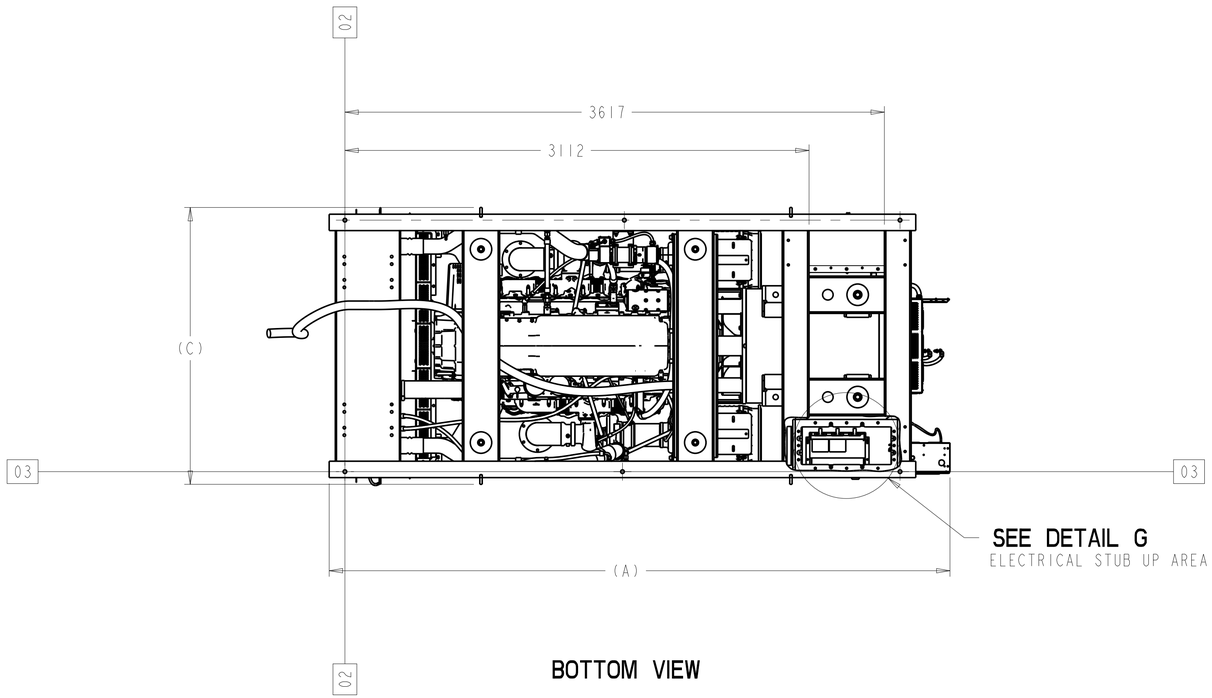
614-6394 VER - CHG 00 D

MED VEE GC NA OPEN GENSET WITH OPTIONAL BREAKER BOX

PRELIMINARY PRINT
05-MAY-2021

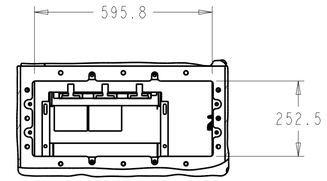


LEFT SIDE VIEW



SEE DETAIL G
ELECTRICAL STUB UP AREA

BOTTOM VIEW



DETAIL G
SCALE 1:10
BREAKER BOX ENTRY DETAILS

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL
NOTE	Caterpillar: Confidential Yellow	

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN mm
DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X | SECONDARY

THIRD ANGLE PROJECTION

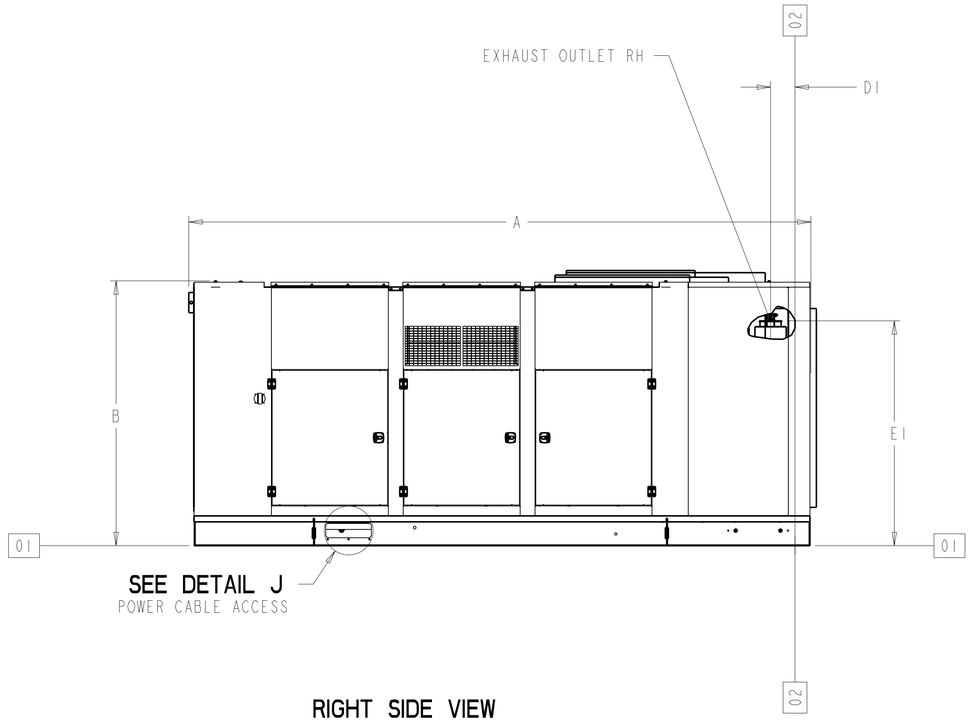
SHEET 3 OF 9
DWG CONTROL W961

CATERPILLAR

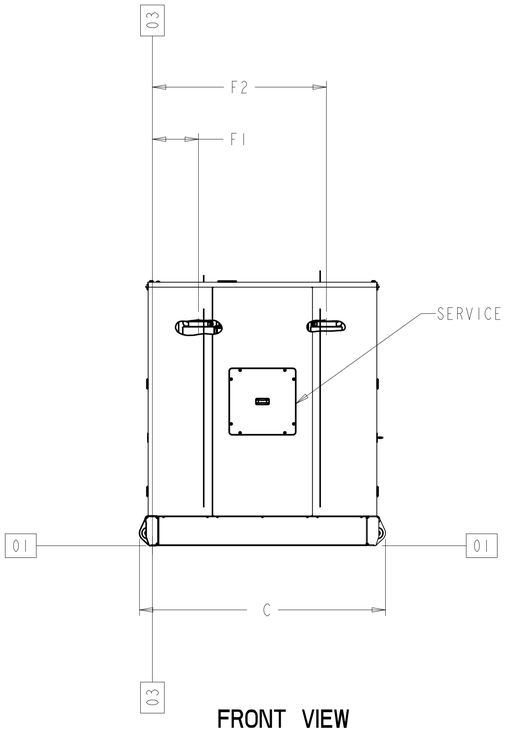
INSTALLATION-ENG
MED VEE GC NA

614-6394	VER	CHG	
	-	00	D

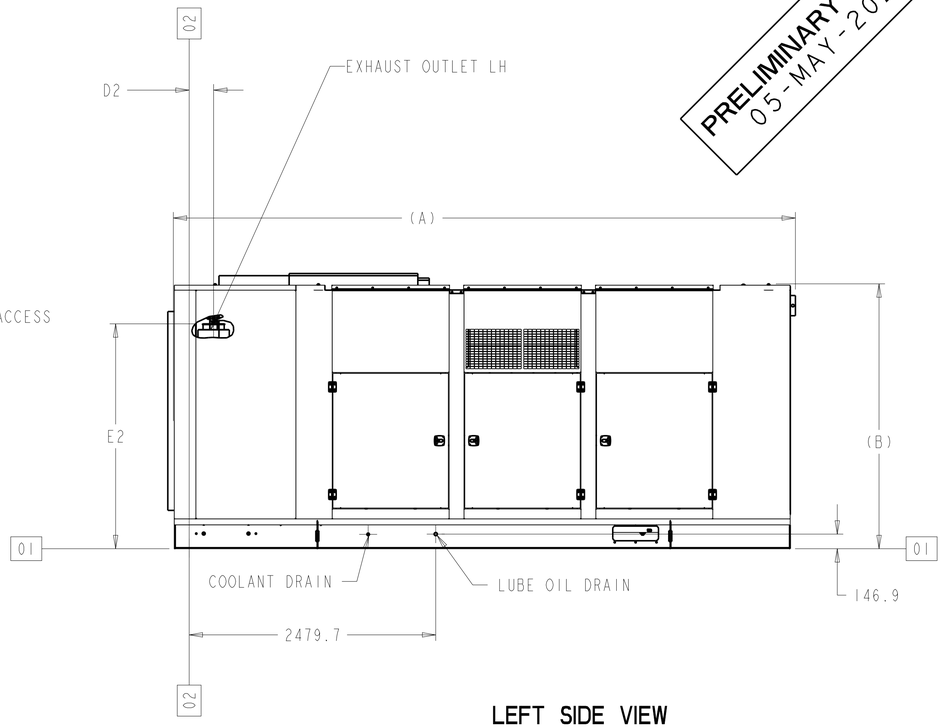
PRELIMINARY PRINT
05-MAY-2021



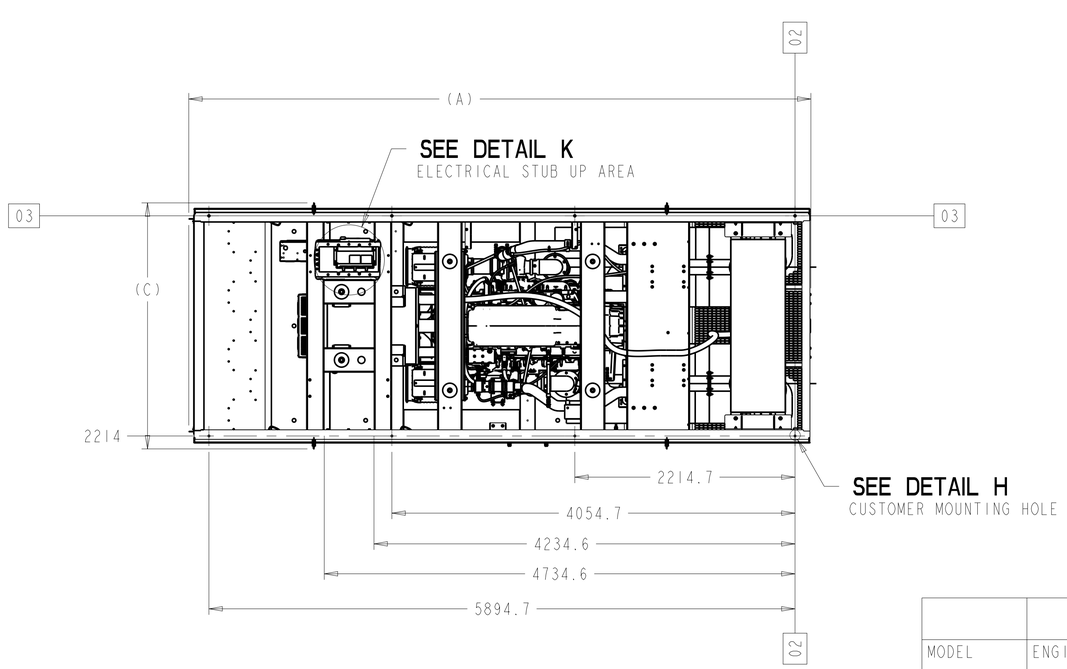
RIGHT SIDE VIEW



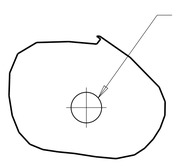
FRONT VIEW



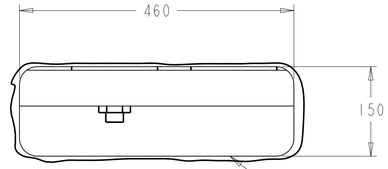
LEFT SIDE VIEW



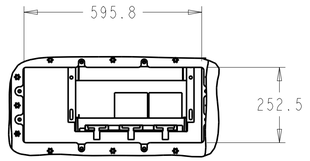
BOTTOM VIEW



DETAIL H
SCALE 1:2



DETAIL J
SCALE 1:5
BOTH SIDE



DETAIL K
SCALE 1:10
BREAKER BOX ENTRY DETAILS

MED VEE GC NA ENCLOSED GENSET WITHOUT FUEL TANK BASE

		PACKAGE RATING		PACKAGE LENGTH	PACKAGE HEIGHT	PACKAGE WIDTH	EXHAUST X	EXHAUST Y	EXHAUST Z	WEIGHT (WET)
MODEL	ENGINE	POWER/ FREQUENCY	VOLTAGE(V)	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D1/D2	DIMENSION E1/E2	DIMENSION F1/F2	kg
DE800 GC	C27	800ekW/60hz	480V	6195	2663	2475	245.9/245.9	2261.5/2261.5	463.1/1750.1	8610
DE1000 GC	C32	1000ekW/60hz	480V	6195	2663	2475	245.9/245.9	2261.5/2261.5	463.1/1750.1	9042
DE1250 GC	C32	1250ekW/ 60hz	480V	6195	2663	2475	218.3/218.3	2614.5/3115.4	373.7/1840.3	10086

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL

Caterpillar: Confidential Yellow

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X / SECONDARY

THIRD ANGLE PROJECTION

SHEET 4 OF 9

DWG CONTROL W961

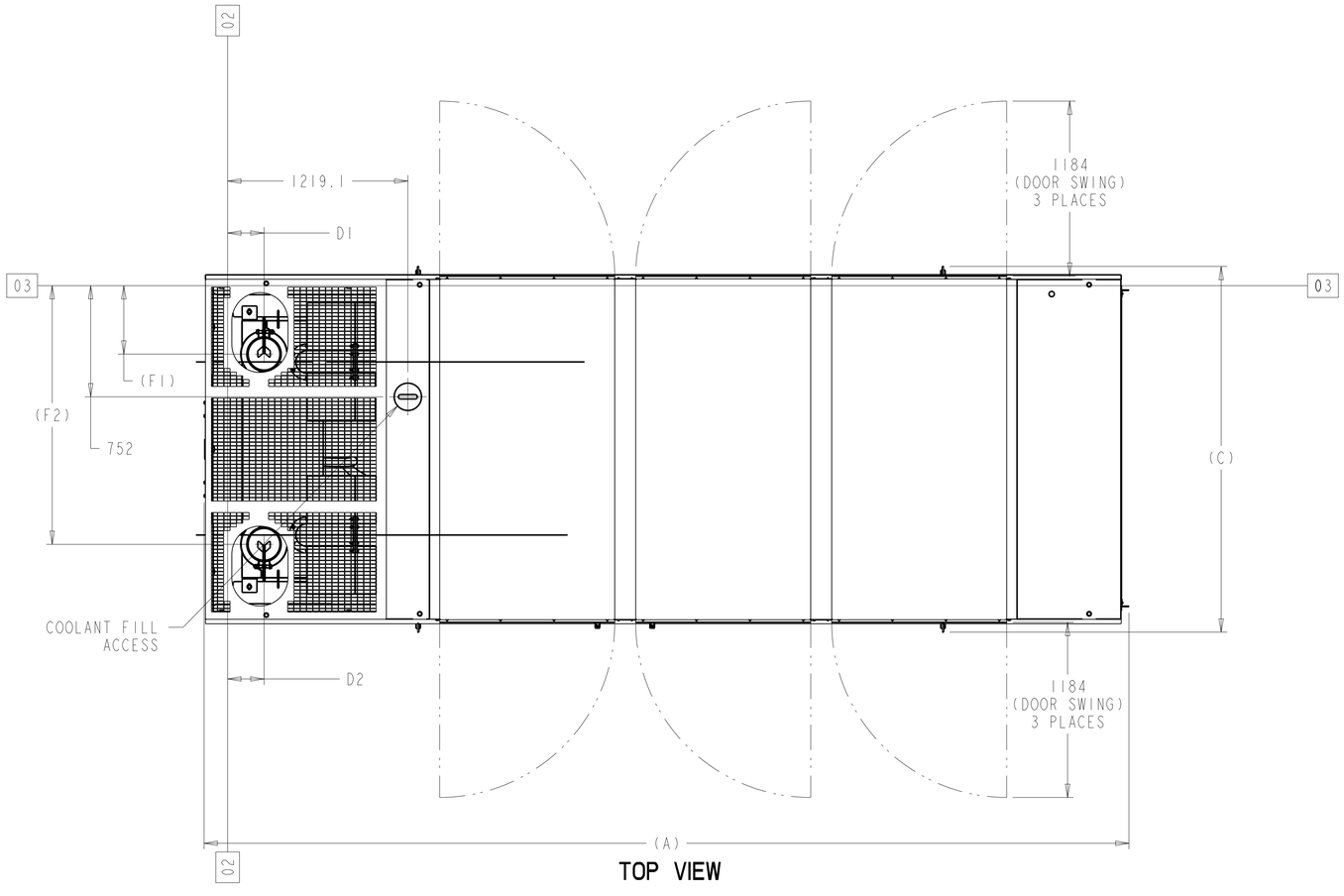
CATERPILLAR

INSTALLATION-ENG

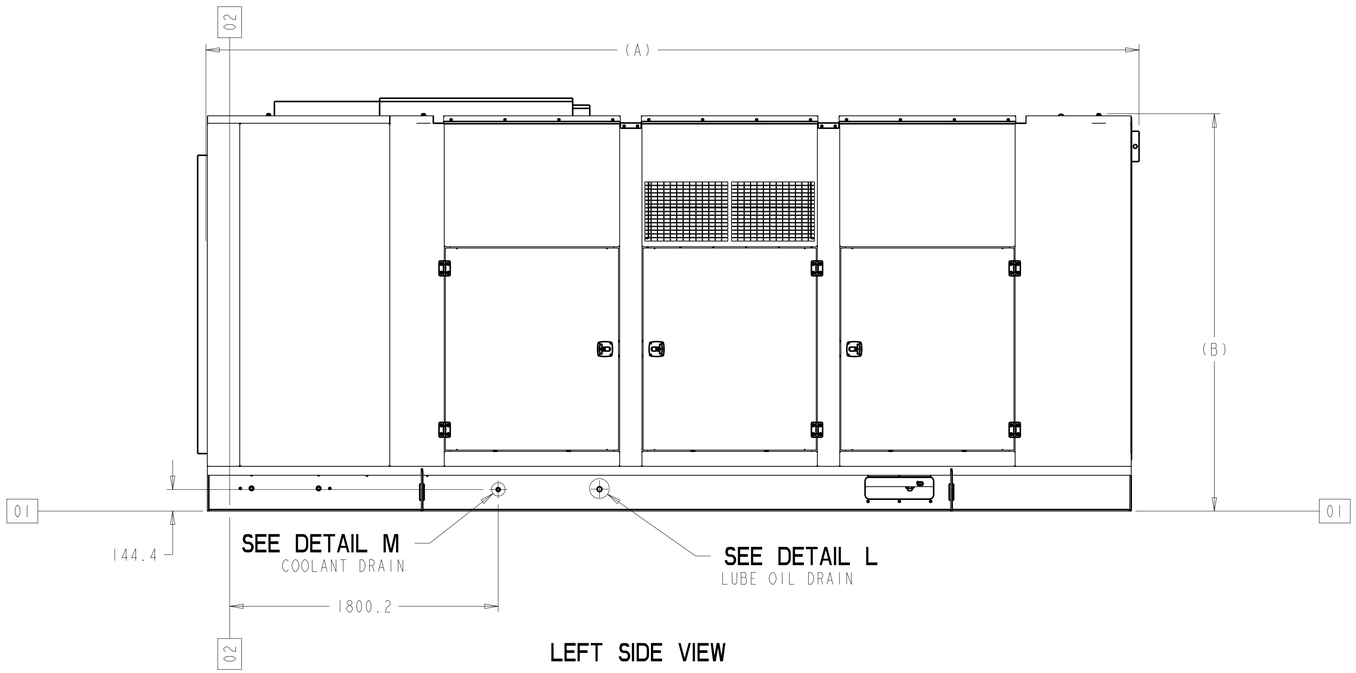
MED VEE GC NA

614-6394 VER - CHG 00 D

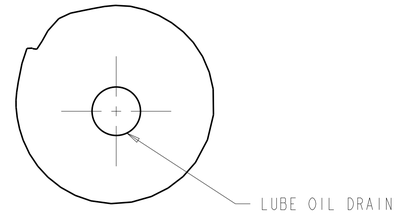
PRELIMINARY PRINT
05-MAY-2021



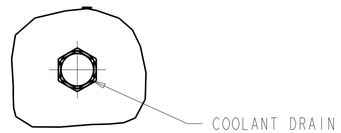
TOP VIEW



LEFT SIDE VIEW



DETAIL L
SCALE 1:2



DETAIL M
SCALE 1:2

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL

Caterpillar: Confidential Yellow

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN mm
DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X | SECONDARY

THIRD ANGLE PROJECTION

SHEET 5 OF 9

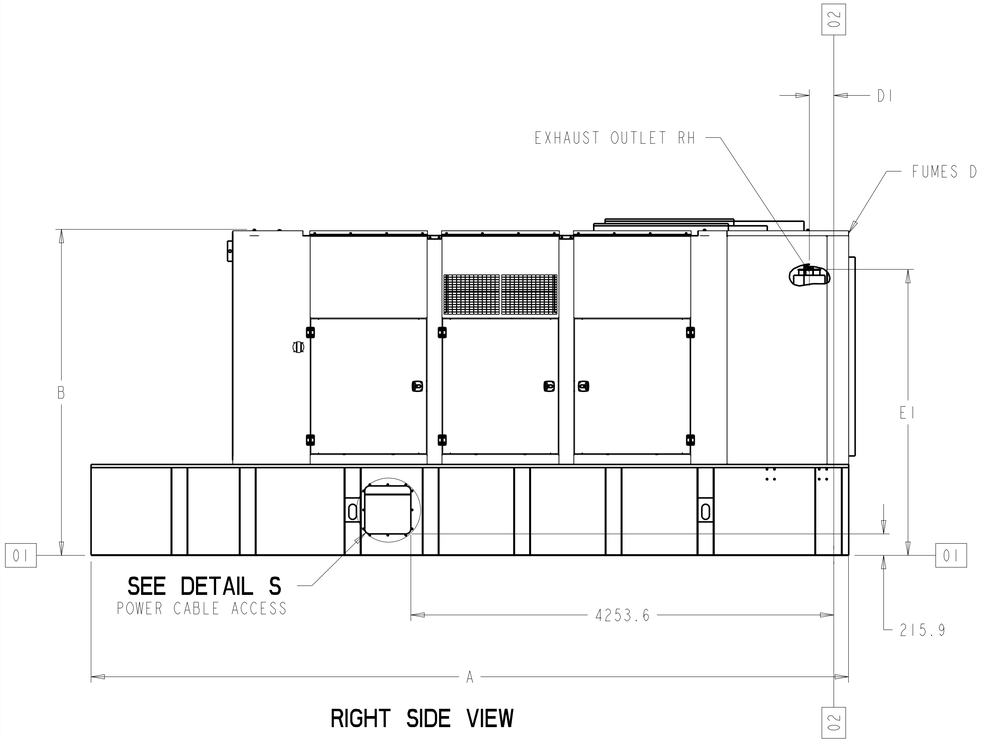
DWG CONTROL W961

CATERPILLAR

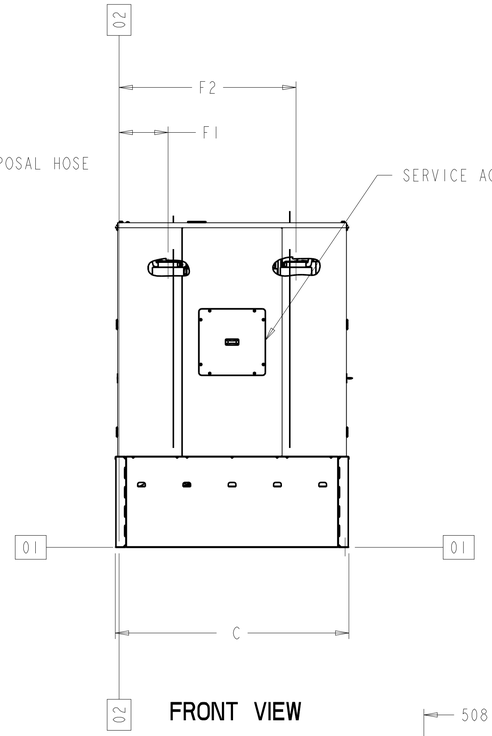
INSTALLATION-ENG

MED VEE GC NA

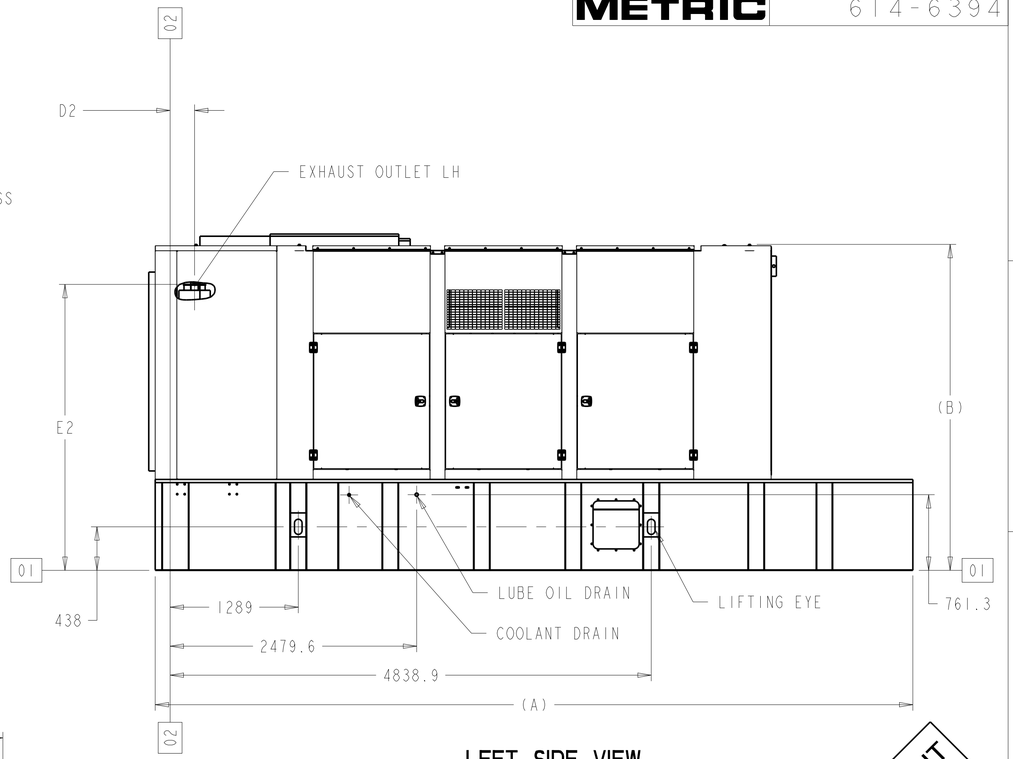
614-6394 | VER - | CHG 00 | D



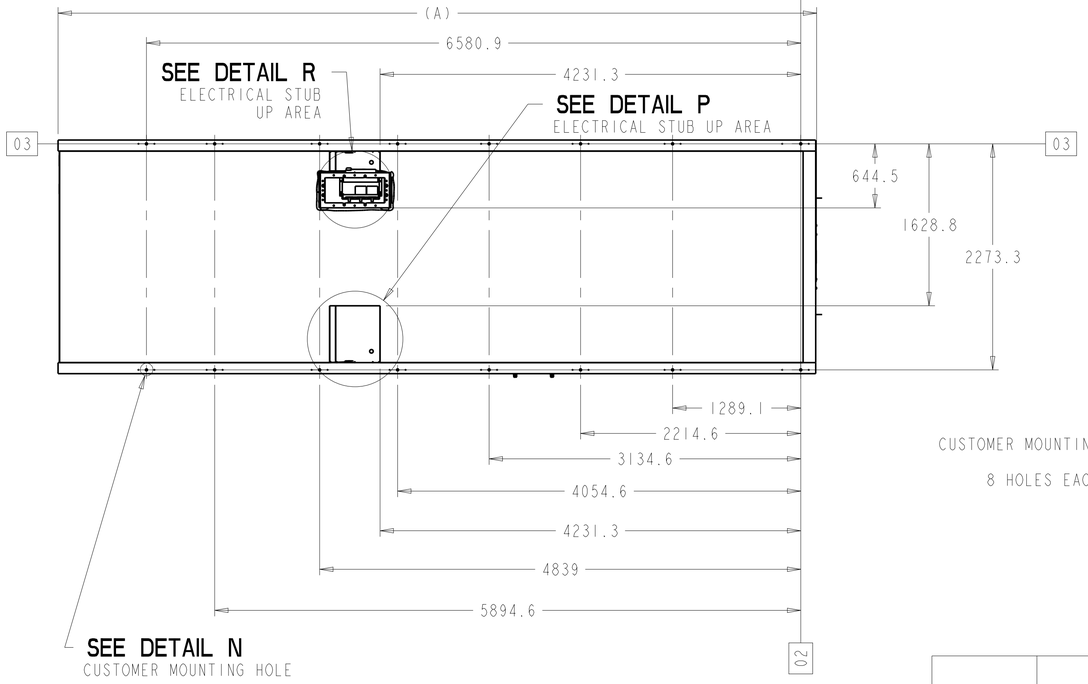
RIGHT SIDE VIEW



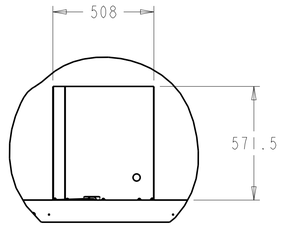
FRONT VIEW



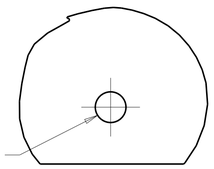
LEFT SIDE VIEW



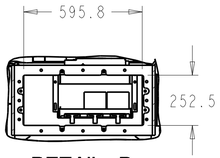
BOTTOM VIEW



DETAIL P
SCALE 1:15
ELECTRICAL STUB UP AREA
2 PLACES



DETAIL N
SCALE 1:2
BOTH SIDE



DETAIL R
SCALE 1:15
BREAKER BOX ENTRY DETAILS

DETAIL S
SCALE 1:15
POWER CABLE ACCESS
BOTH SIDE

PRELIMINARY PRINT
05-MAY-2021

* FOR PACKAGE WEIGHT EVALUATION, ENGINE AND RADIATOR WET WEIGHT CONSIDERED AND TANK IS CONSIDERED DRY

MED VEE GC NA ENCLOSED GENSET WITH 2100 GALLON FUEL TANK BASE BASE

		PACKAGE RATING		PACKAGE LENGTH	PACKAGE HEIGHT	PACKAGE WIDTH	EXHAUST X	EXHAUST Y	EXHAUST Z	WEIGHT*
MODEL	ENGINE	POWER/ FREQUENCY	VOLTAGE(V)	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D1/D2	DIMENSION E1/E2	DIMENSION F1/F2	kg
DE800S GC	C27	800ekW/60hz	480V	7620	3277.4	2336.8	245.9/245.9	2875.9/2875.9	492.7/1779.7	10528
DE1000S GC	C32	1000ekW/60hz	480V	7620	3277.4	2336.8	245.9/245.9	2875.9/2875.9	492.7/1779.7	10960
DE1250S GC	C32	1250ekW/ 60hz	480V	7620	3277.4	2336.8	218.2/218.2	3228.9/3254.0	403.3/1871.0	12004

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL
NOTE	Caterpillar: Confidential Yellow	

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X | SECONDARY

THIRD ANGLE PROJECTION

SHEET 6 OF 9

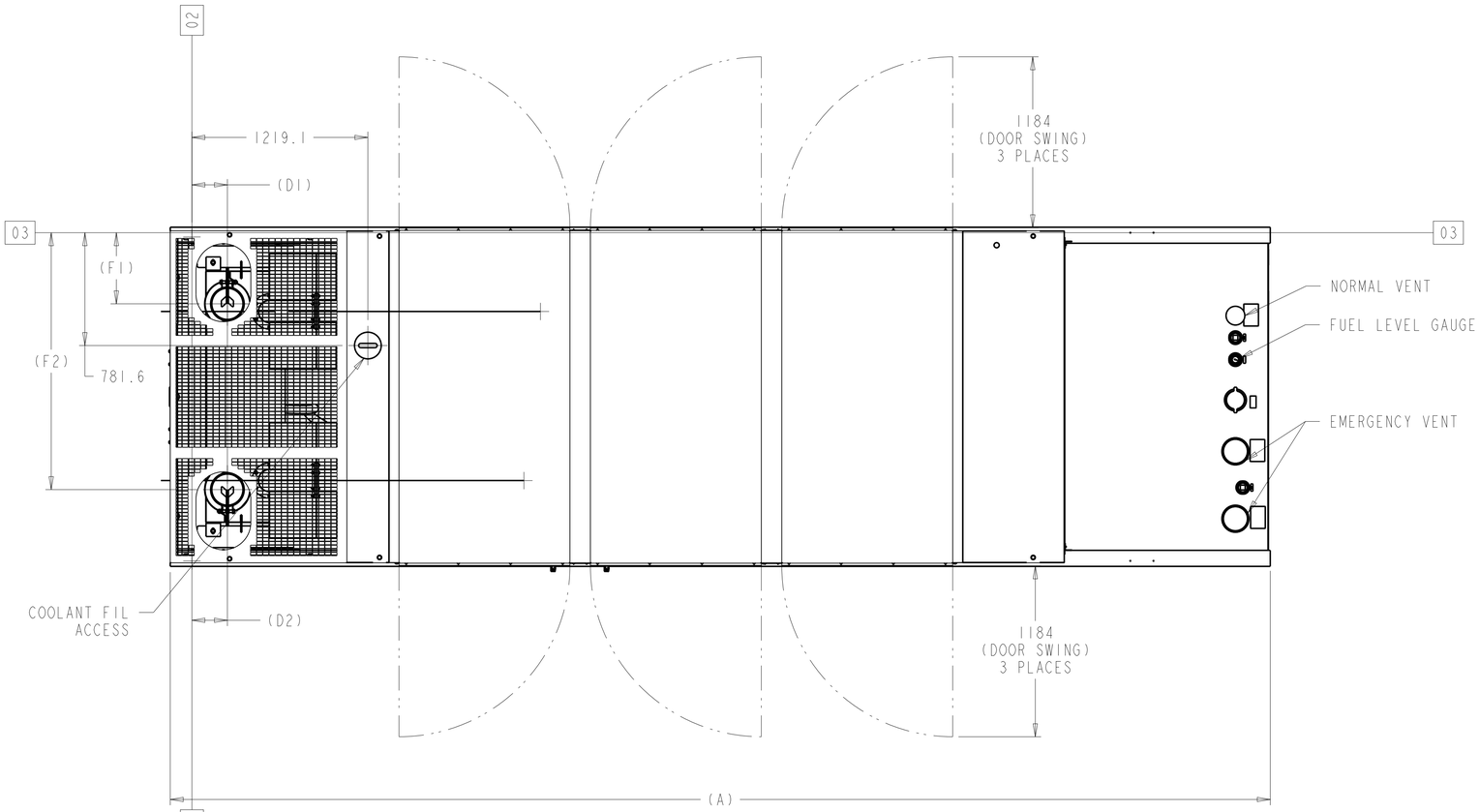
DWG CONTROL W961

CATERPILLAR

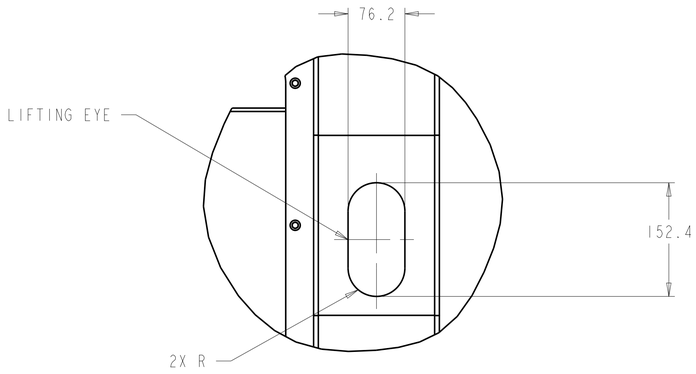
INSTALLATION-ENG

MED VEE GC NA

614-6394 VER - CHG 00 D

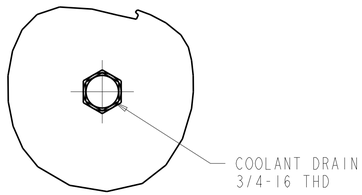


TOP VIEW

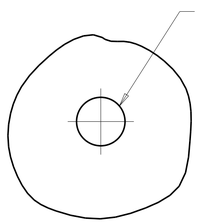


DETAIL T
SCALE 1:4
LIFTING EYE
2 SLOTS EACH SIDE

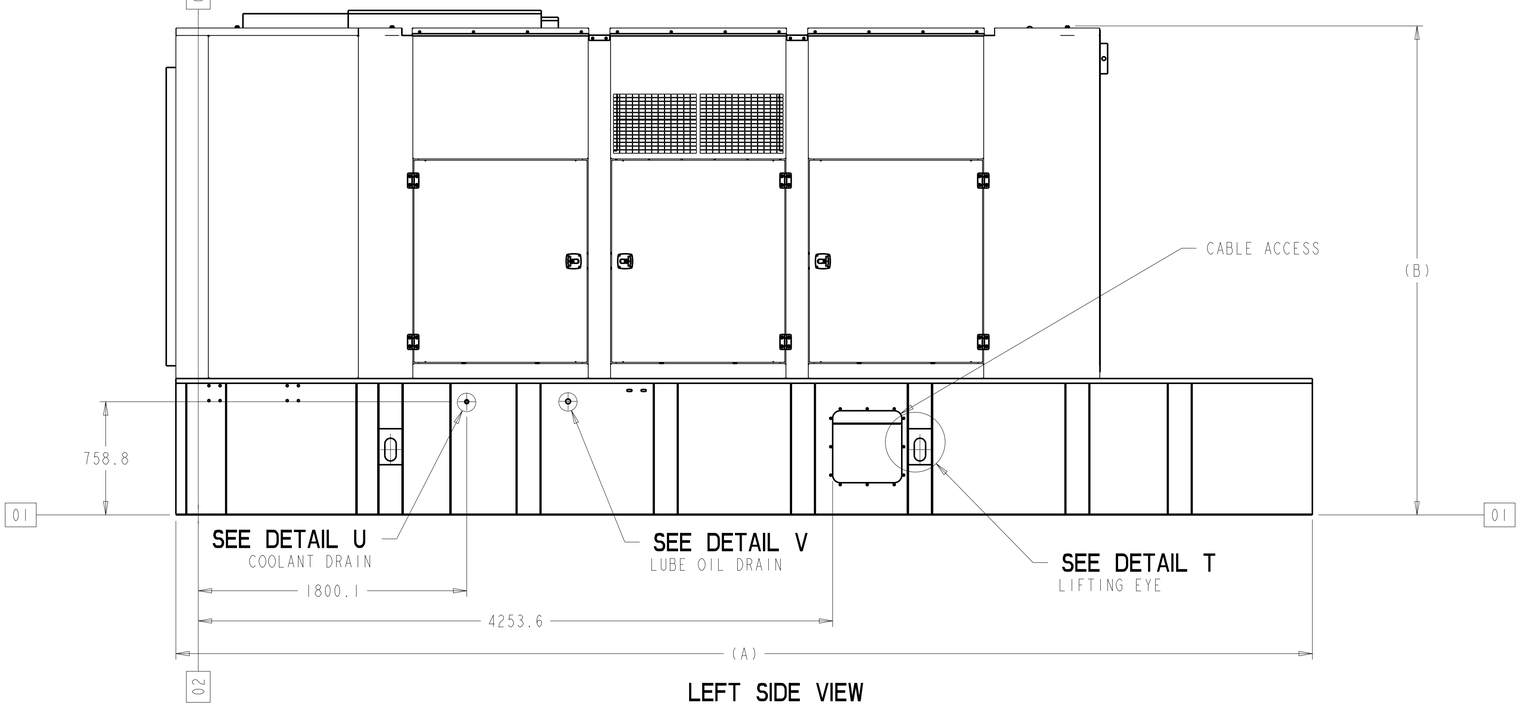
PRELIMINARY PRINT
05-MAY-2021



DETAIL U
SCALE 1:2



DETAIL V
SCALE 1:2



LEFT SIDE VIEW

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL

Caterpillar: Confidential Yellow

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN mm
DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X | SECONDARY

THIRD ANGLE PROJECTION

SHEET 7 OF 9

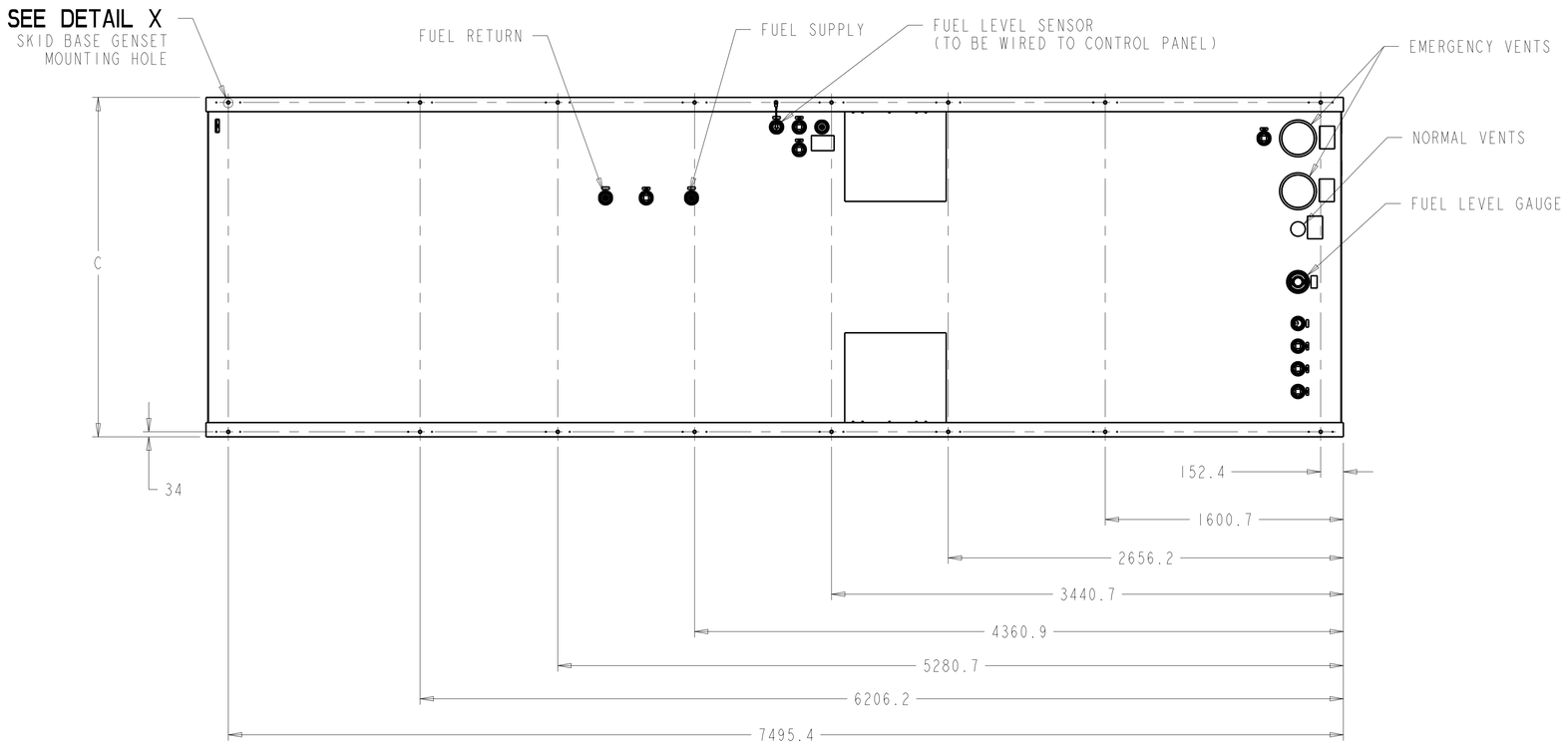
DWG CONTROL W961

CATERPILLAR

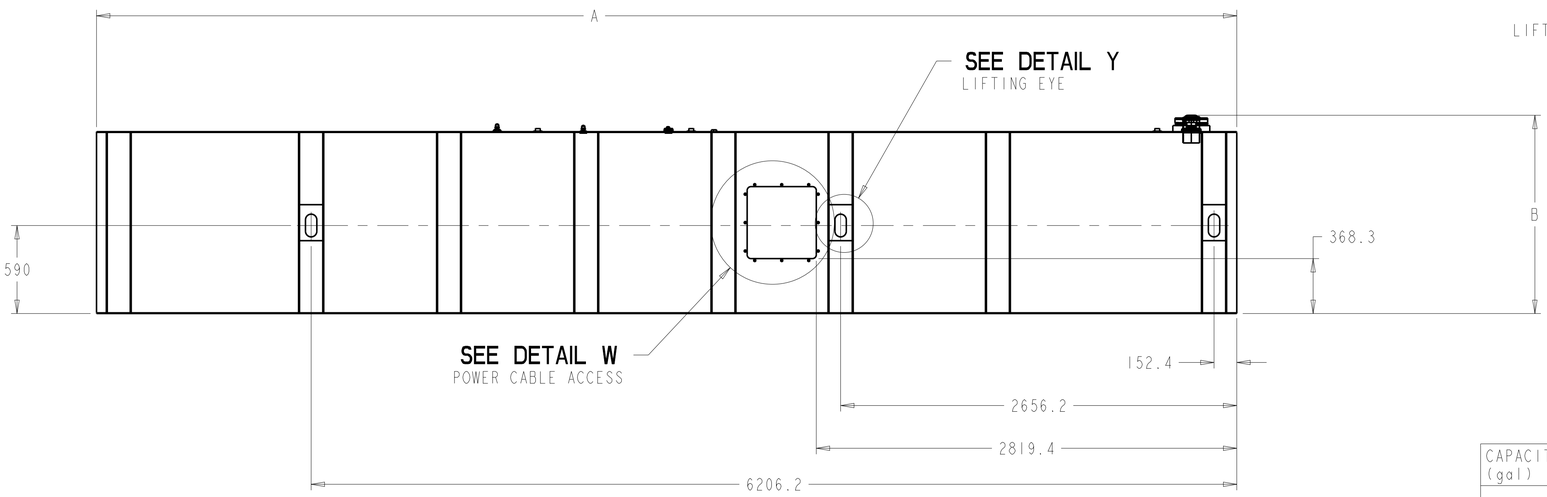
INSTALLATION-ENG

MED VEE GC NA

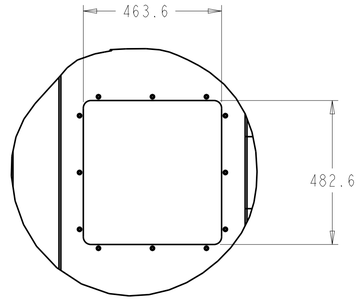
614-6394 | VER - | CHG 00 | D



TOP VIEW

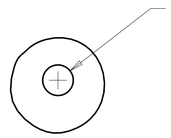


LEFT SIDE VIEW

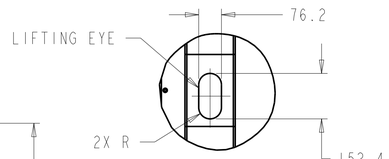


DETAIL W
SCALE 1:10
POWER CABLE ACCESS
BOTH SIDE

PRELIMINARY PRINT
05-MAY-2021



DETAIL X
SCALE 1:2
BOTH SIDE



DETAIL Y
SCALE 1:10
LIFTING EYE
3 PLACES EACH SIDE

FUEL TANK SUB BASE (SHIPPED LOOSE)

CAPACITY (gal)	PACKAGE LENGTH	PACKAGE HEIGHT	PACKAGE WIDTH	WEIGHT (DRY)
	DIMENSION A	DIMENSION B	DIMENSION C	kg
3000	7645	914.4	2278.4	2966
4200	7645	1219.2	2278.4	3891

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL
	Caterpillar: Confidential Yellow	

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN mm
DIMENSIONS W/O TOL ARE BASIC

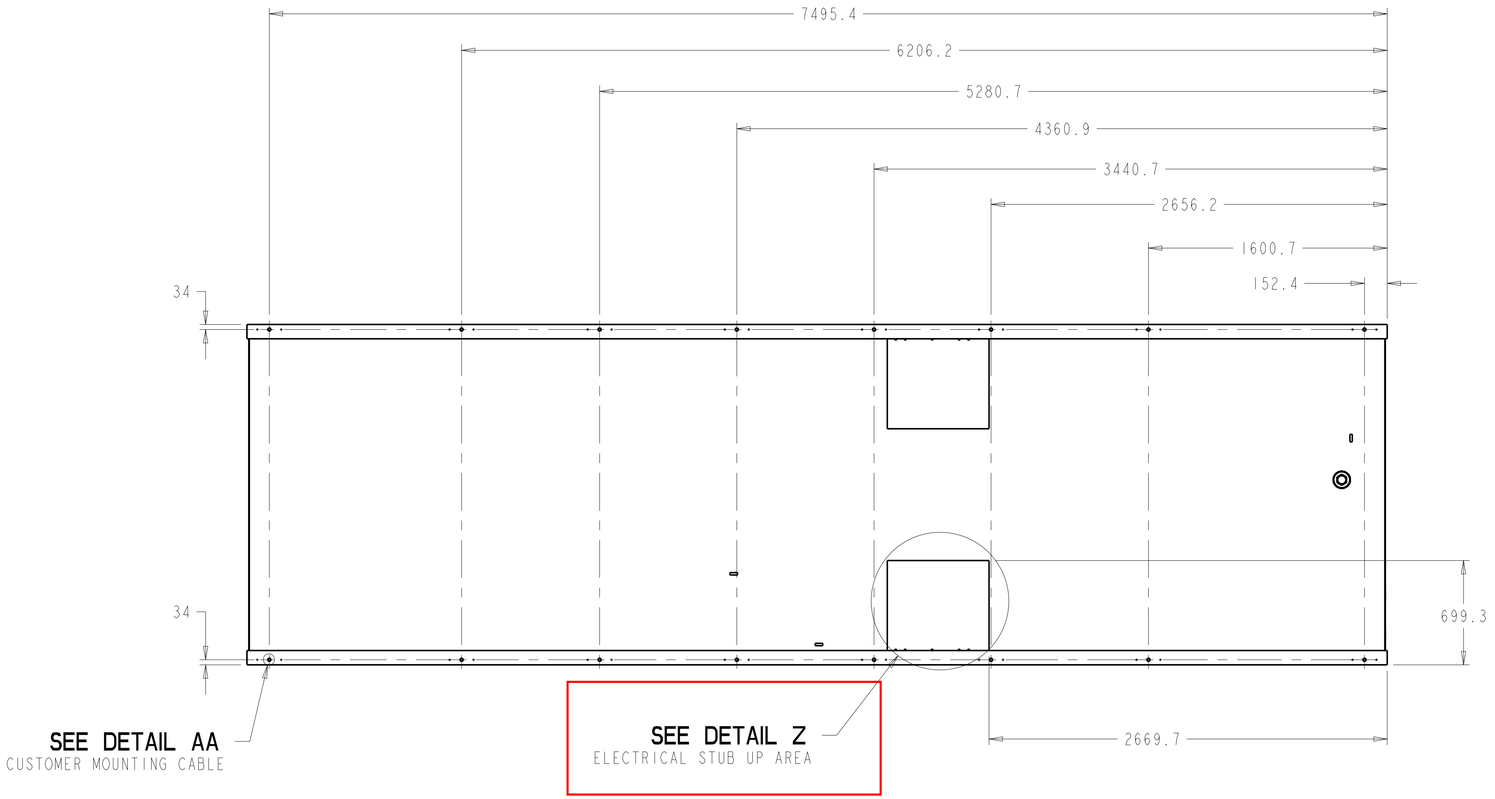
VERSION TYPE: PRIMARY X / SECONDARY

THIRD ANGLE PROJECTION

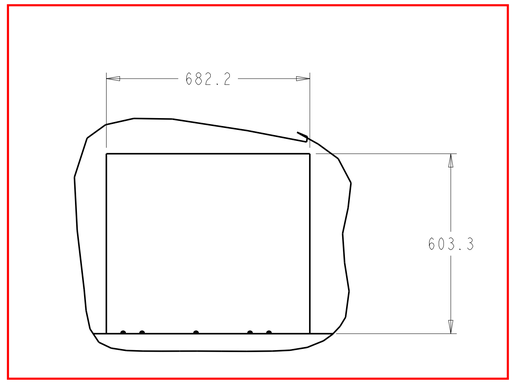
SHEET 8 OF 9
DWG CONTROL W961

CATERPILLAR

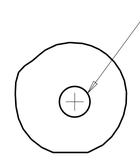
INSTALLATION-ENG
MED VEE GC NA
614-6394 VER - CHG 00 D



BOTTOM VIEW



DETAIL Z
SCALE 1:10
ELECTRICAL STUB UP AREA
2 PLACES



DETAIL AA
SCALE 1:2
BOTH SIDE

PRELIMINARY PRINT
05-MAY-2021

MATL		
HT TR		
	IE5167A	INT-PROP
	IE2966B	IDENT
	IE2722A	DRAWING
	IE0198A	BRAND MARKINGS
	IE0013Y	CONFIDENTIALITY
	IE0012A	INTERPRETATION
NOTE	IE0011	INTPR & TOL
	Caterpillar: Confidential Yellow	

PROD. | OTHER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN mm
DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X | SECONDARY

THIRD ANGLE PROJECTION

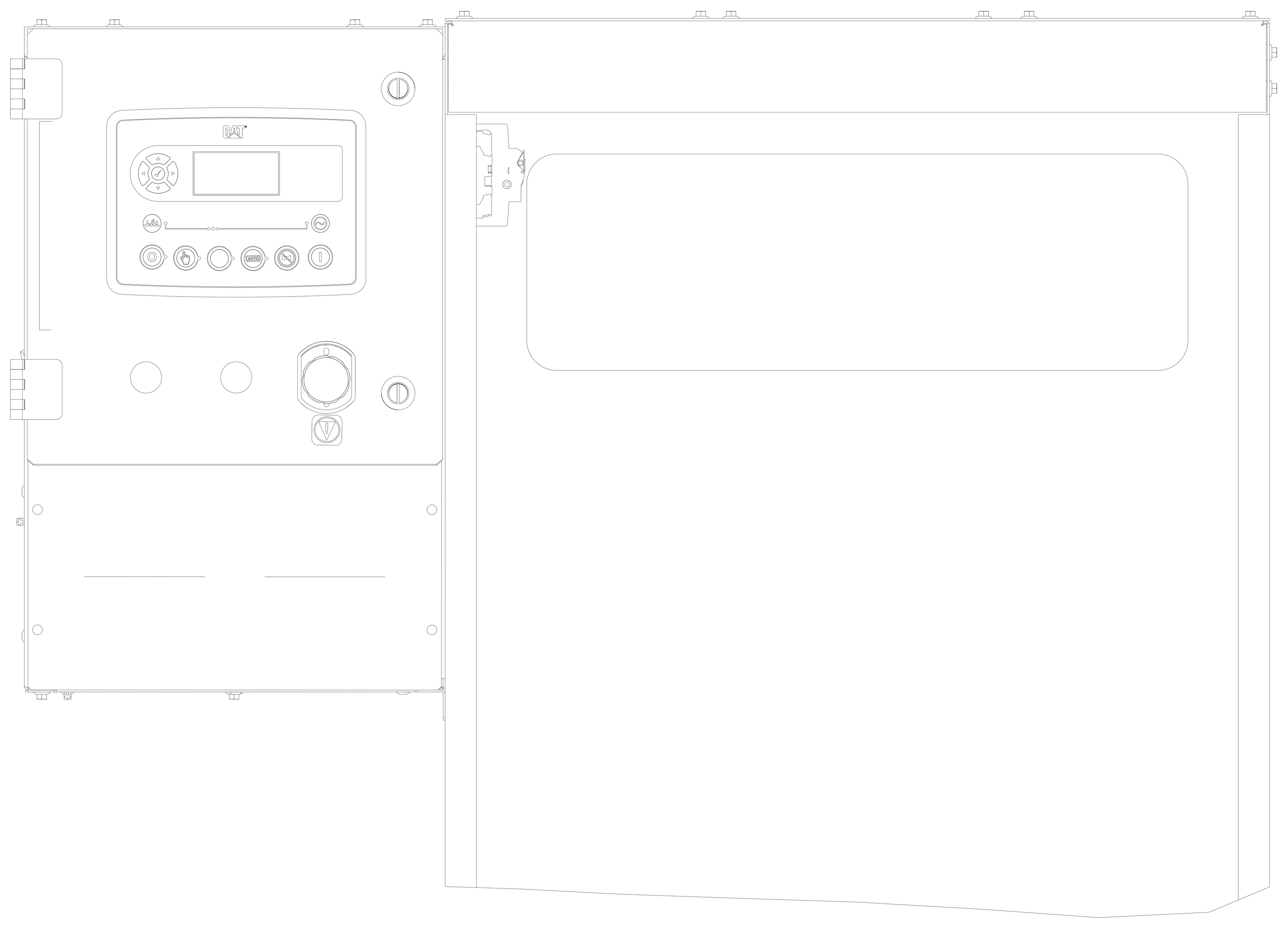
SHEET 9 OF 9
DWG CONTROL W961

CATERPILLAR

INSTALLATION-ENG
MED VEE GC NA
614-6394 VER - CHG 00 D

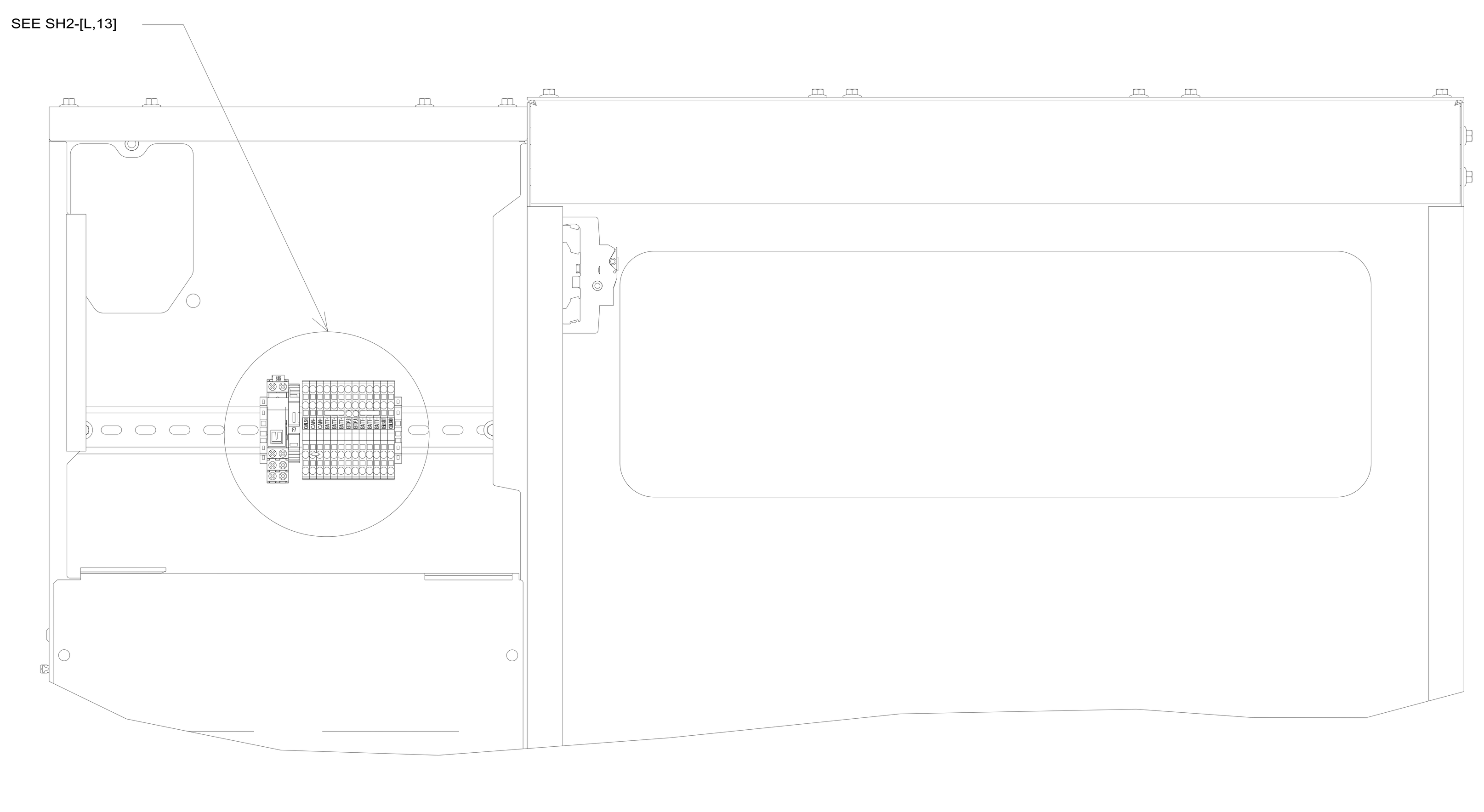
WIRING DIAGRAMS

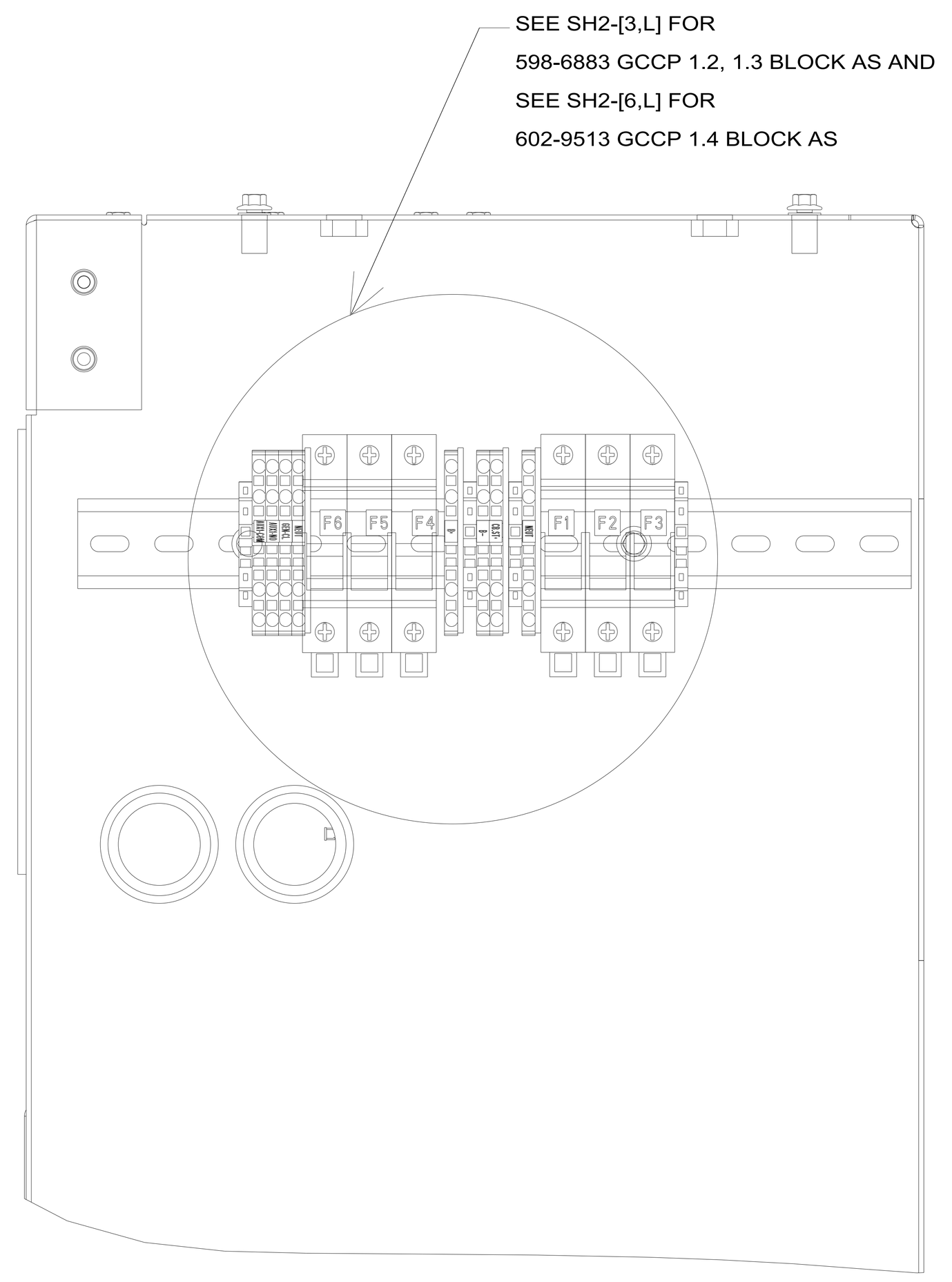
CONTROL PANEL



CONTROL PANEL CLOSED POSITION

606-3828	GCCP 1.2	NORTH AMERICA (AUTO START)
599-3959	GCCP 1.3	REST OF WORLD (AUTO MAINS FAILURE)
602-9241	GCCP 1.4	REST OF WORLD (SYNCHRONIZING)





LEFT SECTION VIEW OF PANEL

CONTROL PANEL OPEN POSITION

SHEET	HARNESS DESCRITPTION	LOCATION
SHEET 1	CONTROL PANEL VIEW(CLOSED)	L-16
	CONTROL PANEL VIEW(OPENED)	G-16
	WIRING HARNESS BILL OF MATERIAL TABLE	L-6
	SCHNEIDER EASYPACT MVS CIRCUIT BREAKER	G-11
	CHINT NA8 CIRCUIT BREAKER	E-11
	ALTERNATOR PART NUMBER LIST	D-11
	SCHNEIDER POWER PACT P/R/L-FRAME	H-11
SHEET 2	AC DISTRIBUTION PANEL	E-18
	AC DISTRIBUTION PANEL WITH LOAD CENTER	E-9
	WIRING GP (GENERAL RUN/FAULT RELAY)	L-18
	ENCLOSURE LIGHT BLOCKS	L-16
	TELEMATICS FUSE	L-15
	GCCP MAIN BLOCK AS	L-14
	GROUND FAULT ANNUNCIATE OPTION	L-9
	TERMINAL BLOCKS ADDED TO 598-6883 CONTROLLER)(USED WITH GCCP 1.2 ONLY)	L-7
	BLOCK AS (USED WITH GCCP 1.4 CONTROLLERS)	L-5
	BLOCK AS (USED WITH GCCP 1.2 / GCCP 1.3 CONTROLLERS)	L-3
SHEET 3	MAIN WIRING HARNESS	L-18
	FUEL LEVEL SENSOR	C-3
SHEET 4	BREAKER SHUNT TRIP WIRING	L-18
	PLG TELEMATICS OPTION	L-9
	VOLTAGE SENSING WIRING FOR GCCP 1.2 & 1.3	H-19
	CURRENT SENSING WIRING FOR GCCP 1.3 WITH REAR-MOUNTED CONTROL PANEL	H-19
	FUEL LEVEL SENSOR (NA/ROW) F/U/W FUEL TANK BASES	F-9
	FUEL LEVEL SENSOR (NA)	E-9
	FUEL LEVEL SENSOR (ROW)	C-9
SHEET 5	CURRENT SENSING WIRING FOR GCCP 1.2, 1.3, & 1.4 F/U/W SIDE-MOUNTED CONTROL PANEL	L-18
	GCCP 1.4 CONTROLLER WITH ELECTRICALLY OPERATED (MVS/NA8) BREAKERS FOR SYNCHRONISE OPTION	L-18
	GCCP 1.2 CONTROLLER (P/R/L-FRAME BREAKER OPTION)	L-10
	GROUND FAULT ANNUNCIATE OPTION	L-10
	24V DC-DC CONVERTER (USED WITH LSIG-P TRIP UNITS)	L-4
SHEET 6	BATTERY CHARGER/ SPACE HEATER/ JACKET WATER HEATER WITH LOADCENTER (FOR NA SPECIFIC)	L-18
	BATTERY CHARGER/SPACE HEATER/ JACKET WATER HEATER (FOR ROW SPECIFIC)	L-18
	100A LOAD CENTER	L-18
	JACKET WATER HEATER OPTION FOR REAR MOUNTED CONTROL PANEL	I-3
	GFCI RECEPTACLE	G-11
	BATTERY CHARGER OPTION	F-7
	JACKET WATER HEATER OPTION WITH LOAD CENTER	E-11
SHEET 7	ENCLOSURE LIGHTS	L-18
	NEUTRAL CT WIRING	F-17
	GENERAL FAULT RELAY/GENSET RUNNING RELAY	K-10
	PL444 MODULE	F-12
	BATTERY CHARGER WITH 150V SUPPLY	G-12

SCHNEIDER POWER PACT P/R/L-FRAME

PART NUMBER	PART NAME	DESCRIPTION
611-4994	BREAKER AS	Schneider L-Frame Circuit Breaker - 250A, 3-Pole, UL, LSI, MO
421-3235	BREAKER AS	Schneider L-Frame Circuit Breaker - 400A, 3-Pole, UL, LSI, MO
421-3237	BREAKER AS	Schneider L-Frame Circuit Breaker - 400A, 3-Pole, UL, LSIG, MO
244-9774	BREAKER AS	Schneider P-Frame Circuit Breaker - 1200A, 3-Pole, UL, LSI, MO
244-9864	BREAKER AS	Schneider R-Frame Circuit Breaker - 1600A, 3-Pole, UL, LSI, MO
244-9868	BREAKER AS	Schneider R-Frame Circuit Breaker - 2000A, 3-Pole, UL, LSI, MO
244-9778	BREAKER AS	Schneider P-Frame Circuit Breaker - 1200A, 3-Pole, UL, LSIG, MO
244-9865	BREAKER AS	Schneider R-Frame Circuit Breaker - 1600A, 3-Pole, UL, LSIG, MO
244-9869	BREAKER AS	Schneider R-Frame Circuit Breaker - 2000A, 3-Pole, UL, LSIG, MO
244-9790	BREAKER AS	Schneider P-Frame Circuit Breaker - 1200A, 3-Pole, UL, LSIG-P, MO
585-8063	BREAKER AS	Schneider R-Frame Circuit Breaker - 1600A, 3-Pole, UL, LSIG-P, MO
585-8064	BREAKER AS	Schneider R-Frame Circuit Breaker - 2000A, 3-Pole, UL, LSIG-P, MO

SCHNEIDER EASYPACT MVS CIRCUIT BREAKER

PART NUMBER	PART NAME	DESCRIPTION
598-6581	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 1600A, 3-Pole, IEC, LSIG, MO
598-6582	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 2000A, 3-Pole, IEC, LSIG, MO
598-6583	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 2500A, 3-Pole, IEC, LSIG, MO
598-6584	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 1600A, 4-Pole, IEC, LSIG, MO
598-6585	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 2000A, 4-Pole, IEC, LSIG, MO
598-6586	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 2500A, 4-Pole, IEC, LSIG, MO
598-6587	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 1600A, 3-Pole, IEC, LSIG, EO (Paralleling)
598-6588	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 2000A, 3-Pole, IEC, LSIG, EO (Paralleling)
598-6589	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 2500A, 3-Pole, IEC, LSIG, EO (Paralleling)
598-6590	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 1600A, 4-Pole, IEC, LSIG, EO (Paralleling)
598-6591	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 2000A, 4-Pole, IEC, LSIG, EO (Paralleling)
598-6592	BREAKER AS	Schneider EasyPact MVS Circuit Breaker - 2500A, 4-Pole, IEC, LSIG, EO (Paralleling)

CHINT NA8 CIRCUIT BREAKER

PART NUMBER	PART NAME	DESCRIPTION
601-9072	BREAKER AS	Chint NA8 Circuit Breaker - 1600A, 3-Pole, IEC, LSI, MO
601-9075	BREAKER AS	Chint NA8 Circuit Breaker - 2000A, 3-Pole, IEC, LSI, MO
601-9076	BREAKER AS	Chint NA8 Circuit Breaker - 2500A, 3-Pole, IEC, LSI, MO
601-9081	BREAKER AS	Chint NA8 Circuit Breaker - 1600A, 4-Pole, IEC, LSI, MO
601-9082	BREAKER AS	Chint NA8 Circuit Breaker - 2000A, 4-Pole, IEC, LSI, MO
601-9083	BREAKER AS	Chint NA8 Circuit Breaker - 2500A, 4-Pole, IEC, LSI, MO
601-9077	BREAKER AS	Chint NA8 Circuit Breaker - 1600A, 3-Pole, IEC, LSI, EO (Paralleling)
601-9078	BREAKER AS	Chint NA8 Circuit Breaker - 2000A, 3-Pole, IEC, LSI, EO (Paralleling)
601-9080	BREAKER AS	Chint NA8 Circuit Breaker - 2500A, 3-Pole, IEC, LSI, EO (Paralleling)
601-9084	BREAKER AS	Chint NA8 Circuit Breaker - 1600A, 4-Pole, IEC, LSI, EO (Paralleling)
601-9085	BREAKER AS	Chint NA8 Circuit Breaker - 2000A, 4-Pole, IEC, LSI, EO (Paralleling)
601-9086	BREAKER AS	Chint NA8 Circuit Breaker - 2500A, 4-Pole, IEC, LSI, EO (Paralleling)

ALTERNATOR PART NUMBER LIST

	POWER	AMP	TYPE	GEN AR
880ekW	1100kVA	50	ECO43-2M/4A	598-6010
1000ekW	1250kVA	50	ECO43-2L/4A	598-6016
1120ekW	1400kVA	50	ECO43-VL/4A	598-6014
1200ekW	1500kVA	50	ECO43-VL/4A	598-6014
1000kVA	800eKW	60	ECO43-1S/4A	598-6004
			ECO43-1S/4A	598-6032
1250kVA	1000eKW	60	ECO43-1M/4A	598-6008
			ECO43-1M/4A	598-6034
1563kVA	1250eKW	60	ECO43-2L/4A	598-6012
			ECO43-2L/4A	598-6036

LAYER	ITEM NUMBER	ITEM NAME	GROUP NUMBER	GROUP NAME	DESCRIPTION
A	598-2490	HARNESS AS	598-8045	CONTROL GP	MAIN HARNESS
			602-5465	CONTROL GP	
			606-3823	CONTROL GP	
AB	602-5511	HARNESS AS	602-5465	CONTROL GP	PARALLELING CIRCUIT BREAKER HARNESS
B	599-2062	HARNESS AS	599-2061	MTG GP - BATTERY CHARGER	10A INSTALLED BATTERY CHARGER HARNESS
BL	604-3119	HARNESS AS	604-3116	WIRING GP	PANEL LIGHTS
C	580-2678	PLUG AS-JUMPER	580-2673	PLUG GP	E-STOP LINK OPEN SET
CA	599-2064	HARNESS AS	599-2063	WIRING GP	SHUNT TRIP HARNESS
CB	602-5514	HARNESS AS	602-9584	WIRING GP	ELECTRICALLY OPERATED CIRCUIT BREAKER HARNESS (MVS)
	603-0229	HARNESS AS	602-6799	WIRING GP	ELECTRICALLY OPERATED CIRCUIT BREAKER HARNESS (NA8)
CC	602-9512	HARNESS AS	602-9513	WIRING GP	P&R FRAME BREAKER HARNESS
CD	603-0016	HARNESS AS	603-0116	WIRING GP	24V DC POWER SUPPLY (OUTPUT)
CE	603-6940	HARNESS AS	603-6942	WIRING GP	AUX BREAKER HARNESS
CF	603-0115	HARNESS AS	603-0116	WIRING GP	24V DC POWER SUPPLY (INPUT)
CG	603-1562	HARNESS AS	603-1563	WIRING GP	NEUTRAL CT HARNESS
E	604-3122	HARNESS AS	604-3121	WIRING GP	ESTOP HARNESS FOR ENCLOSURE
FM	610-5134	HARNESS AS	611-6739	WIRING GP	FUEL LEVEL SENSOR HARNESS (ROW)
FN	614-3427	HARNESS AS	614-3426	WIRING GP	FUEL LEVEL SENSOR HARNESS (NA)
GF	602-1203	HARNESS AS	601-8432	WIRING GP	20A GFCI RECEPTACLE HARNESS
GR	603-1982	HARNESS AS	603-1981	WIRING GP	GENERAL FAULT/RUNNING RELAY
GS	604-1897	HARNESS AS	604-1870	RELAY GP	GF ANNUNCIATION
H	600-1197	HARNESS AS	600-1193	WIRING GP	GENERATOR ANTI-CONDENSATION HEATER HARNESS (WITHOUT LOAD CENTER)
			603-0569	WIRING GP	GENERATOR ANTI-CONDENSATION HEATER HARNESS (WITH LOAD CENTER)
J	601-9292	HARNESS AS	601-9290	WIRING GP	JACKET WATER HEATER HARNESS
JV	610-3782	HARNESS AS	611-6740	WIRING GP	JACKET WATER HEATER HARNESS (WITH LOAD CENTER)
JH	600-0529	HARNESS AS	600-0521	CONNECTION GP	SHORE POWER HARNESS
L	604-6580	HARNESS AS	604-6578	WIRING GP	DC ENCLOSURE LIGHT HARNESS
LB	614-7463	HARNESS AS	614-7453	WIRING GP	BATTERY CHARGER OPTION (110-150V POWER SUPPLY)
LC	602-1210	HARNESS AS	601-5733	CONNECTION GP (DISTRIBUTION)	LOAD CENTER HARNESS
S	598-8047	HARNESS AS	598-8045	CONTROL GP	VOLTAGE SENSING HARNESS (FUSE TO CONTROLLER)
SA	600-3638	HARNESS AS	598-8045	CONTROL GP	VOLTAGE SENSING HARNESS (FUSE TO BUS BAR)
SC	602-5029	HARNESS AS	602-9577	WIRING GP	CURRENT SENSING HARNESS
SD	599-2058	HARNESS AS	599-2057	WIRING GP	CURRENT SENSING HARNESS (FOR REAR-MOUNTED PANEL DESIGN ONLY)
SG	602-6448	HARNESS AS	602-9673	RELAY GP	GCCP 1.4 GROUND FAULT CT HARNESS
P	600-7039	HARNESS AS	599-2073	WIRING GP	PLG601 TELEMATICS MODULE (ETHERNET)
			599-2074	WIRING GP	PLG641 TELEMATICS MODULE (CELLULAR)
			611-5230	CONTROL GP	PLG641 TELEMATICS MODULE (EU)

WIRE/CABLE LIST

ITEM NUMBER	ITEM NAME	GROUP NUMBER	GROUP NAME	DESCRIPTION
604-1871	WIRE AS	604-1870	RELLAY GP	GF ANNUNCIATION
603-8118	CABLE GP-ELEC			NEUTRAL TO GROUND CABLE
603-8119	CABLE GP-ELEC			NEUTRAL TO GROUND CABLE
612-5176	CABLE AS	600-0825	CABLE GP-GROUND	ALTERNATOR GROUND CABLE OF CURRENT SENSING WIRING FOR GCCP 1.2, 1.3, & 1.4
				ALTERNATOR GROUND CABLE OF GCCP 1.2 CONTROLLER OF P/R/L-FRAME

ABBREV	COLOR
RD	RED
WH	WHITE
OR	ORANGE
YL	YELLOW
PK	PINK
BK	BLACK
GY	GRAY
PU	PURPLE
BR	BROWN
GN	GREEN
BU	BLUE

SYMBOL	DESCRIPTION
	BLADE, SPADE, RING, OR SCREW TERMINAL
	CIRCUIT CONNECTED
	CIRCUIT NOT CONNECTED
	ELECTRICAL CONNECTION TO VEHICLE STRUCTURE
	INTERNAL ELECTRICAL CONNECTION TO SURFACE OF COMPONENT
	ATCH WIRE, CABLE & COMPONENT
1	CONNECTOR
H#	CIRCUIT GROUPING DESIGNATION
	SPLICE
	MULTI-CONDUCTOR CABLE

PRELIMINARY
By gopala5 at 7:35:11 PM, 5/11/2021

NOTE A: CAP SEALS TO BE REMOVED WHEN THE FUEL LEVEL SENSOR HARNESS IS INSTALLED

NOTE B: CUSTOMER TO CONNECT THE POWER SUPPLY TO THE FUSES IF LOAD CENTER IS NOT SELECTED. WITH LOAD CENTER OPTION, TERMINAL BLOCKS ARE INSTALLED INSTEAD OF FUSES.

NOTE C: TERMINAL BLOCK LINKS ARE PROVIDED ONLY WITH THE LOAD CENTER OPTION.

NOTE D: REFER TABLES OF SCHNEIDER EASYPACT MVS CIRCUIT BREAKER AND CHINT NA8 CICUIT BREAKER FOR PART NUMBER DETAILS

NOTE E: REFER TABLE OF ALTERNATOR PART NUMBER LIST FOR PART NUMBER DETAILS

MATL
HT
TR

NOTE		
	1E0198W	BRAND MARKINGS
	1E0013Y	CONFIDENTIALITY
	1E0012A	INTERPRETATION
	1E0011	INTPR & TOL
	Caterpillar: Confidential Yellow	

PROD X OTHER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X / SECONDARY

SHEET 1 OF 7

DWG CONTROL W943

CATERPILLAR

DIAGRAM-WIRING
(C27/C32 CAT GC)

599-0110 VER - CHG 01 2X3


MAIN BLOCK AS (OPTIONALS)
603-1981 - WIRING GP (GENERAL RUN /FAULT RELAYS)
604-6578 - ENCLOSURE LIGHT BLOCKS
600-7039
TELEMATICS FUSE
598-8048 - GCCP MAIN BLOCK AS
GROUND FAULT ANNUNCIATE OPTION
GP: 604-1870
TERMINAL BLOCKS ADDED TO 598-6883
(USED WITH GCCP 1.2 ONLY)
(6025444 WIRING GP)
602-9513 - BLOCK AS (USED WITH GCCP 1.4)
598-6883 - BLOCK AS (USED WITH GCCP 1.2 / GCCP 1.3)
GFR
599-0368
GRR
599-0368
ELR
599-0368
F9
F8
STR
599-0368
F7
CAN SH
CAN-
CAN+
BTRY+
ESTOP_B
ESTOP_A
BTRY-
REM_ST
CLN_GND
AUX1-NC
AUX1-NO
AUX1-COM
GEN-CL
NEUT
F6
F5
F4
B+
B-
CB.ST+
F1
F2
F3
AC DISTRIBUTION PANEL
BATTERY CHARGER
572-0792
(10A)
F11
F10
F12
GND
F14
F13
F15
JSR_1
599-0368
AC DISTRIBUTION PANEL WITH LOAD CENTER
GP: 601-5733
601-5733 AC DISTRIBUTION
PANEL WITH LOAD CENTER
PRELIMINARY
1E0198W BRAND MARKINGS
1E0013Y CONFIDENTIALITY
1E0012A INTERPRETATION
1E0011 INTPR & TOL
Caterpillar: Confidential Yellow
SHEET 2 OF 7
DWG CONTROL W943
CATERPILLAR
DIAGRAM-WIRING
(C27/C32 CAT GC)
599-0110

MAIN WIRING HARNESS

GP: 598-8045
GP: 602-5465
GP: 606-3823

A-C5
265-4123
SERVICE TOOL CONNECTOR
892-A37 WH-18
893-A36 WH-18
229A-A46 GY-18
104-A45 WH-18
CBL-A3:Y797-A2 YL-18
CBL-A3:Y798-A1 GN-18
CBL-A3:Y799-A3 CU-18
ENGINE CONNECTION
A-C1
9X-1339
CAT - DATALINK
CAN + 23(20)
CAN - 24(21)
CAN SH 25(22)
CBL-A1:Y797-A2 YL-18
CBL-A1:Y798-A1 GN-18
CBL-A1:Y799-A3 CU-18
CBL-A4:Y797-A2 YL-18
CBL-A4:Y798-A1 GN-18
CBL-A4:Y799-A3 CU-18
CAN+
CAN-
CAN SH
CBL-A2:Y797-A2 YL-18
CBL-A2:Y798-A1 GN-18
CBL-A2:Y799-A3 CU-18
CAN
F7
10 A
101-A21 WH-14
101-A5 WH-16
101-A6 WH-16
101-A7 WH-16
BTRY +
DC SUPPLY + 2(2)
104-A43 WH-18
104-A1 WH-14
104-A33 WH-18
104-A18 WH-18
BTRY+
BTRY+(3)
104-A2 WH-18
229A-A9 GY-16
229A-A8 GY-16
229A-A10 GY-16
A774-A38 GY-18
229A-A15 GY-18
BTRY -
DC SUPPLY - 1(1)
229A-A44 GY-18
229A-A34 GY-18
BTRY-
229A-A20 GY-14
229A-A35 GY-18
GP: 604-3121 (ENCLOSURE E-STOP)
GP: 580-2673 (OPEN GENSET)
A774-E4 GY-18
104-E3 WH-18
EMERGENCY STOP 3(3)
ESTOP
390-1209
A775-A3 WH-18
229C-A4 GY-18
104-A2 WH-18
A775-A19 WH-18
A774-A24 GY-18
A-C4
155-2272
E-C1
3E-3376
ESTOP-ENCL
E-STOP
A775-E1 WH-18
A774-E2 GY-18
(RMT START) DI-A 42(49)
879-A11 WH-18
REM_ST
REMOTE START CUSTOMER CONNECTION
ESTOP_B
ESTOP_A
FOR REMOTE E-STOP, REMOVE THIS LINK AND WIRE A NORMALLY CLOSED SWITCH BETWEEN THESE TERMINALS
(SENSOR GND) AI 15(15)
229C-A14 GY-18
CLN_GND
229C-A12 GY-18
(F LEAK) DI-B 43(60)
229C-A29 GY-18
DIG RTN
DI-C 44(61)
DI-D 45(62)
DI-E 46(63)
DI-F 47(64)
DI-G 48(65)
DI-H 49(66)
(FUEL LEVEL) AI-A 16(16)
P733-A13 WH-18
(SPARE) AI-B 17(17)
(SPARE) AI-C 18(18)
(GF ANNUNCIATION) AI-D 19(19)
229A-A26 GY-18
229A-A35 GY-18
229A-A15 GY-18
(SPARE) DO-H 12(12)
N756-A17 WH-18
BUZZER
241-3114
(SHUNT TRIP) DO-C 7(7)
R958-A16 WH-18
(SPARE) DO-E 9(9)
(SPARE) DO-F 10(10)
(SPARE) DO-G 11(11)
(SPARE) DO-D 8(8)
GCCP 1.2 / GCCP 1.3 (GCCP 1.4)
229A-A28 GY-18
P733-A13 WH-18
104-A18 WH-18
374-7464 : CAP-SEAL
REFER TO SH4-[9,F] FOR NA AND SH4-[9,D] FOR ROW
NOTE A
A-C2
155-2267
229A-A27 GY-18
Y984-A22 WH-18
374-7463 : CAP-SEAL
REFER TO SH4-[9,F] FOR NA AND SH4-[9,D] FOR ROW
NOTE A
A-C3
155-2269
229A-A25 GY-18
STR
599-0368
SH2-[14,G],SH4-[18,J],SH5-[2,G]

PRELIMINARY

1E0198W BRAND MARKINGS
1E0013Y CONFIDENTIALITY
1E0012A INTERPRETATION
1E0011 INTPR & TOL
Caterpillar: Confidential Yellow

SHEET 3 OF 7

CATERPILLAR

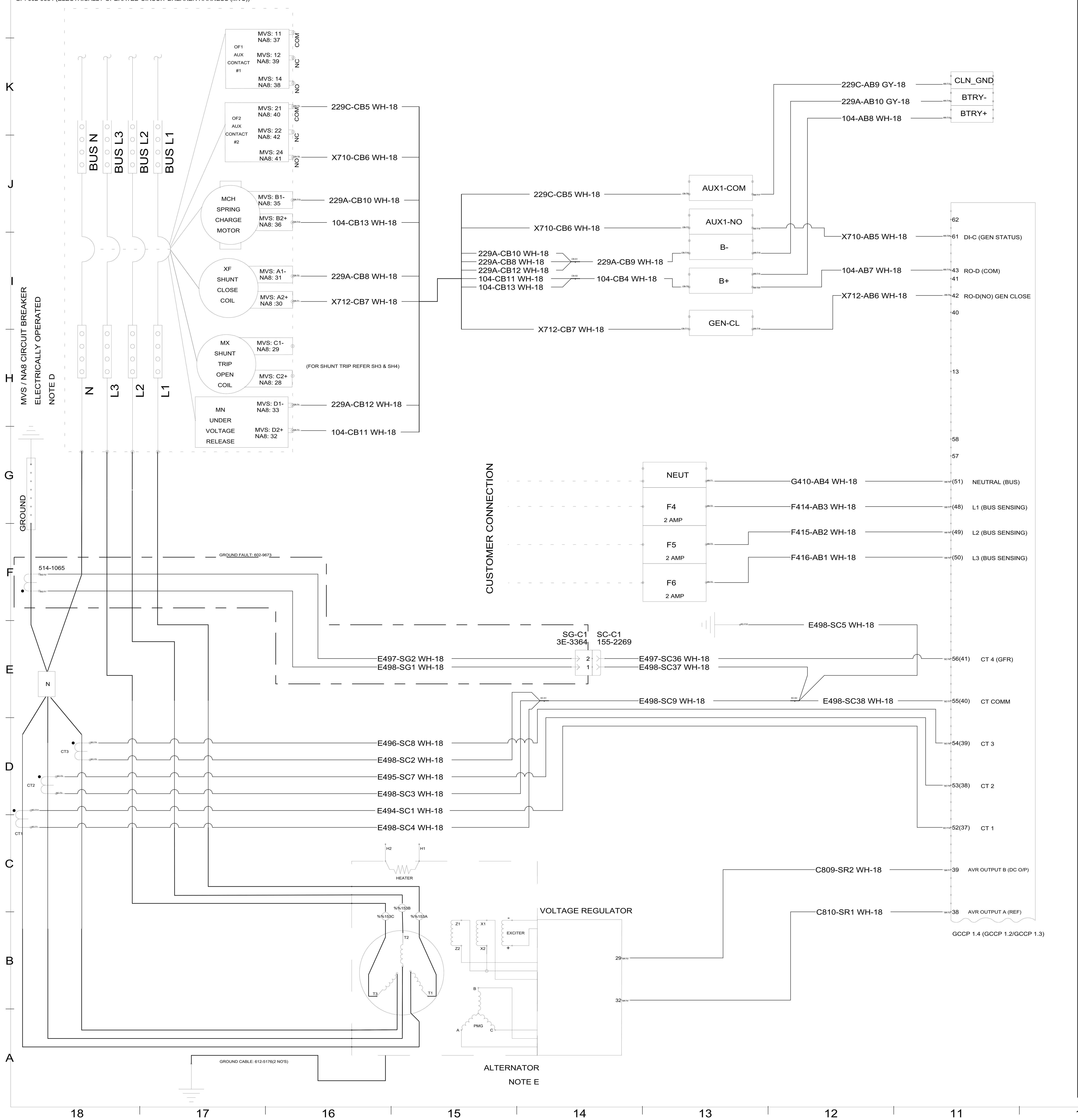
WIRING DIAGRAM
(C27/C32 CAT GC)

599-0110

BREAKER SHUNT TRIP WIRING
GP: 599-2063
229A-CA5 WH-18
BTRY-
229A-CA3 WH-18
BTRY-
BTRY+
104-CA2 WH-18
SH2-[14,G],SH3-[11,B],SH5-[2,G]
599-0368
STR
R956-CA1 WH-18
CB.ST+
R956-CA4 WH-18
MN UNDER VOLTAGE RELEASE
MX SHUNT TRIP OPEN COIL
XF SHUNT CLOSE COIL
MCH SPRING CHARGE MOTOR
OF2 AUX CONTACT #2
OF1 AUX CONTACT #1
NO
NC
COM
L1
L2
L3
N
BUS L1
BUS L2
BUS L3
BUS N
MVS / NA8 CIRCUIT BREAKER
NOTE D
VOLTAGE SENSING WIRING FOR GCCP 1.2 & 1.3
CURRENT SENSING WIRING FOR GCCP 1.3 F/U/W REAR MOUNTED CONTROL PANEL
GP:599-2057 (CURRENT SENSING - REAR-MOUNTED PANEL)
GP:606-3823 (GCCP 1.2 VOLTAGE SENSING)
GP:598-8045 (GCCP 1.3 VOLTAGE SENSING)
CUSTOMER CONNECTION
36 NEUTRAL(BUS SENSING)
35 L1 (BUS SENSING)
34 L2 (BUS SENSING)
33 L3 (BUS SENSING)
41(56) CT 4 (GFR)
BREAKER OPTION WITH GENSET
CT ROUTING INSIDE GENERATOR
E498-SD11 WH-18
40 CT COMM
E496-SD12 WH-18
39 CT 3
E495-SD13 WH-18
38 CT 2
E494-SD10 WH-18
37 CT 1
SD-C1
515-9685
GROUND
F409-SA4 WH-16
NEUT
F409-S4 WH-18
32 NEUTRAL (GEN)
E486-SA3 WH-16
F1
2 AMP
E486-S3 WH-18
29 L1 (GEN)
E487-SA2 WH-16
30 L2 (GEN)
F2
2 AMP
E487-S2 WH-18
E488-SA1 WH-16
31 L3 (GEN)
F3
2 AMP
E488-S1 WH-18
GCCP 1.2 / GCCP 1.3
HEATER
VOLTAGE REGULATOR
EXCITER
PMG
Alternator
587-7286 / 587-7284 / 587-7288
PLG TELEMATICS OPTION
GP:599-2073 (PLG601)
GP:599-2074 (PLG641U)
GP:611-5230 (PLG641E)
BTRY+
BTRY-
CAN SH
CAN-
CAN+
108-P2 WH-18
F8
2 AMP
108-P3 WH-18
229A-P1 WH-18
Y799-P6 WH-18
Y798-P5 WH-18
Y797-P4 WH-18
497-5511
493-5256
PLG TELEMATICS OPTION MODULE
5693105/5693109/ 4626494 - CONTROL GP-ELEK
493-5263
RS485 - B 51(72)
RS485 - A 52(73)
RS485 - SCR 50(71)
CBL-P1:952-P2 WH-18
CBL-P1:951-P1 BK-18
CBL-P1:953-P3 CU-20
GCCP 1.2 / GCCP 1.3 / GCCP 1.4
FUEL LEVEL SENSOR (NA/ROW) F/U/W FUEL TANK BASES
FUEL LEVEL SENSOR (NA)
FN-C7
3E-3370
FN-C3
271-5590
229A-FN1 GY-20
P773-FN2 WH-20
FUEL LEVEL SENSOR
FN-C6
3E-3364
FN-C5
155-2269
229A-FN3 GY-18
Y984-FN4 WH-18
FUEL LEAK DETECTION
FUEL LEVEL SENSOR (ROW)
GP: 611-6739
229A-FM2 BK-18
P733-FM3 GN-18
104-FM1 RD-18
3E-3370
FM-C1
FUEL LEVEL / LOW LEVEL SENSOR
155-2272
FM-C3
Y984-FM4 WH-18
3E-3364
FM-C2
PRELIMINARY
1E0198W BRAND MARKINGS
1E0013Y CONFIDENTIALITY
1E0012A INTERPRETATION
1E0011 INTPR & TOL
Caterpillar: Confidential Yellow
SHEET 4 OF 7
W943
CATERPILLAR
DIAGRAM-WIRING
(C27/C32 CAT GC)
599-0110
01
2X3

CURRENT SENSING WIRING FOR GCCP 1.2, 1.3, & 1.4 F/U/W SIDE-MOUNTED CONTROL PANEL
GCCP 1.4 CONTROLLER WITH ELECTRICALLY OPERATED (MVS/NA8) BREAKERS FOR SYNCHRONISE OPTION

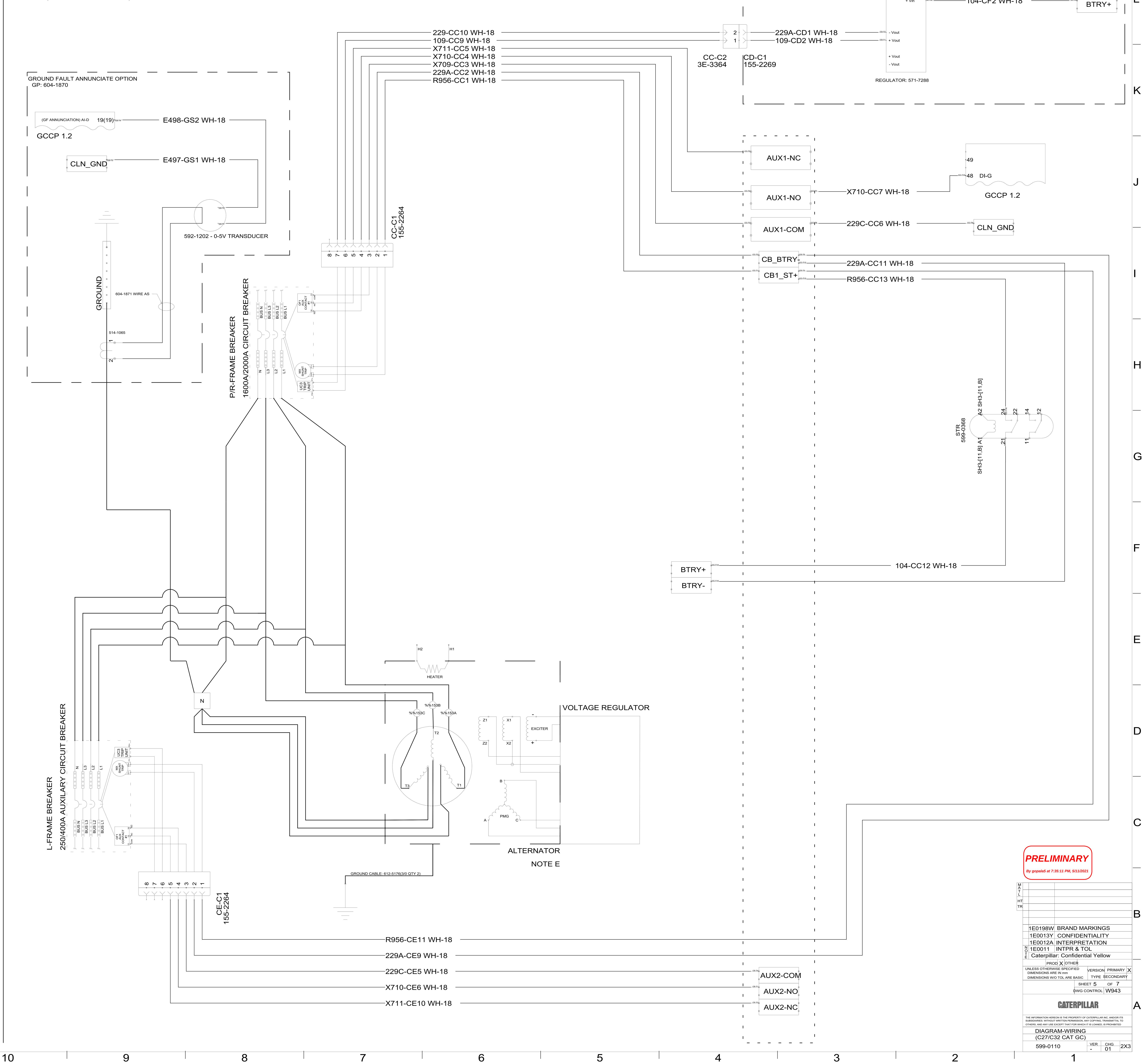
GP: 602-9577 (CURRENT SENSING)
GP: 602-6799 (ELECTRICALLY OPERATED CIRCUIT BREAKER HARNESS (NA8))
GP: 602-9584 (ELECTRICALLY OPERATED CIRCUIT BREAKER HARNESS (MVS))



BUS N
BUS L3
BUS L2
BUS L1
MVS / NA8 CIRCUIT BREAKER ELECTRICALLY OPERATED NOTE D
MCH SPRING CHARGE MOTOR
XF SHUNT CLOSE COIL
MX SHUNT TRIP OPEN COIL
MN UNDER VOLTAGE RELEASE
(FOR SHUNT TRIP REFER SH3 & SH4)
229C-CB5 WH-18
X710-CB6 WH-18
229A-CB10 WH-18
104-CB13 WH-18
229A-CB8 WH-18
X712-CB7 WH-18
229A-CB12 WH-18
104-CB11 WH-18
AUX1-COM
AUX1-NO
B-
B+
GEN-CL
229C-AB9 GY-18
229A-AB10 GY-18
104-AB8 WH-18
CLN_GND
BTRY-
BTRY+
X710-AB5 WH-18
104-AB7 WH-18
X712-AB6 WH-18
DI-C (GEN STATUS)
RO-D (COM)
RO-D(NO) GEN CLOSE
CUSTOMER CONNECTION
NEUT
F4 2 AMP
F5 2 AMP
F6 2 AMP
G410-AB4 WH-18
F414-AB3 WH-18
F415-AB2 WH-18
F416-AB1 WH-18
NEUTRAL (BUS)
L1 (BUS SENSING)
L2 (BUS SENSING)
L3 (BUS SENSING)
GROUND
514-1065
GROUND FAULT: 602-9672
E498-SC5 WH-18
SG-C1 3E-3364
SC-C1 155-2269
E497-SG2 WH-18
E498-SG1 WH-18
E497-SC36 WH-18
E498-SC37 WH-18
CT 4 (GFR)
E498-SC9 WH-18
E498-SC38 WH-18
CT COMM
E496-SC8 WH-18
E498-SC2 WH-18
E495-SC7 WH-18
E498-SC3 WH-18
E494-SC1 WH-18
E498-SC4 WH-18
CT 3
CT 2
CT 1
C809-SR2 WH-18
C810-SR1 WH-18
AVR OUTPUT B (DC O/P)
AVR OUTPUT A (REF)
GCCP 1.4 (GCCP 1.2/GCCP 1.3)
HEATER
VOLTAGE REGULATOR
EXCITER
PMG
ALTERNATOR
NOTE E
GROUND CABLE: 612-5176(2 NO'S)

GCCP 1.2 CONTROLLER WITH P/R/L-FRAME BREAKER OPTION
GROUND FAULT ANNUNCIATE OPTION FOR GCCP 1.2/ GCCP 1.3

GP: 602-9513 (P/R-FRAME CIRCUIT BREAKER)
GP: 603-6942 (L-FRAME CIRCUIT BREAKER)



24V DC-DC CONVERTER (USED WITH LSIG-P TRIP UNITS)
GP: 603-0116
229A-CF1 WH-18
104-CF2 WH-18
BTRY-
BTRY+
229A-CD1 WH-18
109-CD2 WH-18
CC-C2 3E-3364
CD-C1 155-2269
REGULATOR: 571-7288
229-CC10 WH-18
109-CC9 WH-18
X711-CC5 WH-18
X710-CC4 WH-18
X709-CC3 WH-18
229A-CC2 WH-18
R956-CC1 WH-18
GROUND FAULT ANNUNCIATE OPTION
GP: 604-1870
GCCP 1.2
E498-GS2 WH-18
CLN_GND
E497-GS1 WH-18
592-1202 - 0-5V TRANSDUCER
GROUND
CC-C1 155-2264
P/R-FRAME BREAKER 1600A/2000A CIRCUIT BREAKER
AUX1-NC
AUX1-NO
AUX1-COM
X710-CC7 WH-18
229C-CC6 WH-18
DI-G
CB_BTRY-
CB1_ST+
229A-CC11 WH-18
R956-CC13 WH-18
STR 599-0368
BTRY+
BTRY-
104-CC12 WH-18
HEATER
VOLTAGE REGULATOR
EXCITER
PMG
ALTERNATOR
NOTE E
L-FRAME BREAKER 250/400A AUXILARY CIRCUIT BREAKER
GROUND CABLE: 612-5176(3/0 QTY 2)
CE-C1 155-2264
R956-CE11 WH-18
229A-CE9 WH-18
229C-CE5 WH-18
X710-CE6 WH-18
X711-CE10 WH-18
AUX2-COM
AUX2-NO
AUX2-NC
PRELIMINARY
1E0198W BRAND MARKINGS
1E0013Y CONFIDENTIALITY
1E0012A INTERPRETATION
1E0011 INTPR & TOL
Caterpillar: Confidential Yellow
CATERPILLAR
DIAGRAM-WIRING
(C27/C32 CAT GC)
599-0110

BATTERY CHARGER/ SPACE HEATER/ JACKET WATER HEATER WITH LOADCENTER (FOR NA SPECIFIC)
BATTERY CHARGER/SPACE HEATER/ JACKET WATER HEATER (FOR ROW SPECIFIC)

GP: 599-2061
GP: 600-1193
GP: 600-0521
GP: 600-0521
GP: 601-6733
GP: 611-6740
GP: 601-8432

100A LOAD CENTER
601-5733

LOADCENTER GND BAR

200-LC3 GN-YL-14
200-JV3 GN-YL-10

CB1
"null"
15A SHORE POWER CIRCUIT BREAKER

CUSTOMER CONNECTION
240V 3 WIRES

L1
L2
15A

AC101-LC1 WH-14
AC199-LC2 WH-14

NOTE B

GND
GND

200-JH3 GN-YL-14
200-B3 GN-YL-14
200-J1 GN-YL-14

GROUND

CHG-L1/F10 10A
HTR-L1/F11 10A
JWH-L1/F12 10A
NOTE C

AC102-B2 WH-14
AC204-H3 WH-18
AC203-J5 WH-18

CHG-L2/F13 10A
HTR-L2/F14 10A
JWH-L2/F15 10A
NOTE C

AC202-B5 GY-14
AC104-H2 WH-18
AC103-J73 WH-18

AC103-J73 WH-18
AC104-H2 WH-18

JSR_1
599-0368

BTRY-
229A-JH2 WH-18

OUTPUT D (GENSET RUNNING)
8
A309-JH1 WH-18
GCCP 1.3

JACKET WATER HEATER OPTION FOR REAR MOUNTED CONTROL PANEL
GP: 601-9200

JACKET WATER HEATER OPTION
RAIL-MOUNTED JUNCTION BOX

AC105-J72 WH-18
200-J1 GN-YL-14
AC203-J5 WH-18

CR1
L1 T1
CUSTOMER INPUT-L1
JW-T6

CR1
L2 T2
JW-T12
CUSTOMER INPUT-L2

JACKET WATER HEATER
9kW (TOTAL)
307-3275 (220VAC)
307-3276 (240VAC)

GP: 601-8432 (GFCI RECEPTACLE OPTION)

GFCI RECEPTACLE
423-7031

200-GF1 GN-YL-10
AC199-GF2 WH-12
AC101-GF3 WH-12

LOADCENTER NEUTRAL BAR

CB3
602-1200
20A GFCI CIRCUIT BREAKER

AC106-H1 WH-18
AC204-H3 WH-18

BATTERY CHARGER OPTION

BTRY+
BTRY-

108-B4 WH-14
208-B6 GY-14

DSENET B
DSENET A
DSENET SCREEN
26(29)
27(30)
28(31)
GCCP1.3

CBL-B3:B1-B1 RD-18
CBL-B3:A1-B2 BK-18
CBL-B3:SCR-B3 CU-18

B
A
SCR

120
9W-2275

200-B3 GN-YL-14
AC102-B2 WH-14
AC202-B5 GY-14

GND_1
L
N

BTRY_CHARGER_10A
572-0792

SPACE HEATER OPTION

2
1

SPACE HEATER

JACKET WATER HEATER OPTION WITH LOAD CENTER
601-8013 (220/230 VAC 50Hz)
601-8014 (240 VAC 60Hz)
9kW (TOTAL)

GP: 611-6740 (JWH OPTION)

CB2
35A JACKET WATER HEATER CIRCUIT BREAKER
420-0784

35A

AC103-JV1 WH-10
AC203-JV2 WH-10

JV-T1
JV-T4
JV-T6

TS1
HIGH LIMIT
MANUAL SWITCH
L1 T1

TS2
CONTROL

M1

PRELIMINARY
By pqsaldi at 7:35:12 PM, 5/11/2021

1E0198W	BRAND MARKINGS
1E0013Y	CONFIDENTIALITY
1E0012A	INTERPRETATION
1E0011	INTPR & TOL
Caterpillar: Confidential Yellow	

PROG DITHER
UNLESS OTHERWISE SPECIFIED VERSION PRIMARY
DIMENSIONS ARE IN MM
DIMENSIONS AND TOL ARE BASIC TYPE SECONDARY
SHEET 6 OF 7
DWG CONTROL W943

CATERPILLAR

THE INFORMATION HEREIN IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES AND IS NOT TO BE USED OR DISCLOSED EXCEPT AS AUTHORIZED IN WRITING AND MAY ONLY EXCEPT THAT FOR WHICH IT IS LOANED. IS PROHIBITED.

DIAGRAM-WIRING
(C27/C32 CAT GC)

599-0110 VER. - CHG 01 2X3

ADDITIONAL OPTIONS

PRELIMINARY
By gopala5 at 7:35:11 PM, 5/11/2021

MATL		
HT TR		
	1E0198W	BRAND MARKINGS
	1E0013Y	CONFIDENTIALITY
	1E0012A	INTERPRETATION
NOTE	1E0011	INTPR & TOL
	Caterpillar: Confidential Yellow	

PROD X OTHER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN mm
DIMENSIONS W/O TOL ARE BASIC

VERSION TYPE: PRIMARY X / SECONDARY

SHEET 7 OF 7
DWG CONTROL W943

CATERPILLAR

DIAGRAM-WIRING
(C27/C32 CAT GC)

599-0110 | VER - | CHG 01 | 2X3

Attachment C
Exception to the Geologic Assessment

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

No exception was made for the Geologic Assessment for the Aboveground Storage Tank Facility Plan for Optum Pharmacy 704 Site in San Antonio, Texas. See the Geologic Assessment Form (TCEQ-0585) for the assessment details.

Attachment D
Spill and Overfill Control

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

The emergency generator is equipped with spill and overfill protection and an automatic shutoff. The facility employs loading and unloading procedures designed to prevent accidental spills and releases during the transfer of oils and other materials. Loading and unloading operations are supervised by Optum personnel. Care is taken to ensure that no liquid product is spilled at the loading areas. The fuel fill port is located within the emergency generator housing which is equipped with spill/overfill protection. There is also a drip container located around the fill pipe of the generator.

Secondary containment for the fuel storage tank is provided by its double-walled construction, with the exterior tank having a minimum capacity of 110 percent of the interior primary tank. The interstitial space is equipped with a leak alarm float switch and a manual drain valve that is normally kept closed. The double-wall construction precludes the collection of precipitation and is sized to contain the volume of the fuel tank. Any liquids collecting in the interstitial space are assumed to be fuel and will either be returned to the storage tank and used as fuel or will be removed and disposed of off-Site at an authorized disposal facility. The emergency generator and associated tank will be inspected monthly by facility personnel. Visual inspections include inspecting the condition of all parts (including secondary containment) such as valves, pipes, joints, catch pans, supports, and metal surfaces for signs of rust, aging, leaks, spills, and staining. Inspection of the spill response equipment is also completed during the inspection of the aboveground storage tank.

Any release during fuel transfer operations will remain in the fueling area or travel southwest along a paved roadway adjacent to the building into a detention pond off-Site. Due to the distance between the generator and the detention pond, and the capacity of diesel fuel in the generator, it is unlikely that a release would reach the detention pond and be released to Huebner Creek. Any residual fuels will be removed and properly disposed.

Photograph #1	Optum AST Facility Plan – 5627 University Heights Boulevard, San Antonio, TX	B2401026
Date:	February 16, 2024	BRAUN INTERTEC
Direction:	--	
Subject:	Photo of label identifying secondary containment generator base.	

Photograph #2	Optum AST Facility Plan – 5627 University Heights Boulevard, San Antonio, TX	B2401026
Date:	February 16, 2024	BRAUN INTERTEC
Direction:	South	
Subject:	Emergency generator and spill prevention box around fill opening.	

Attachment E
Response Actions to Spills

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

Optum Pharmacy 704 has a Spill Prevention, Control, and Countermeasure (SPCC) plan for this Site. If a spill were to occur during fuel transfer, the standard operating procedures in place would limit the spill and contain it in close proximity to the release.

In the event of an oil spill, the spill would be evaluated by location, product, and quantity released. Applicable, trained facility personnel will take appropriate and timely measures to prevent the migration of spilled oil products and protect the health and safety of the public.

If a small spill is detected (less than 25 gallons and entirely controlled or contained within a concrete area), the detector will immediately notify facility management to assess the situation. If it can be accomplished safely before notifying management, the detector will shut down any equipment that is involved in the spill or may exacerbate the spill and may attempt to contain the spill with absorbent materials and other equipment from the spill kit. Facility management will dispatch appropriately trained personnel to the scene of the spill to provide assistance. If the spill is small and contained, authorized facility personnel will complete the final cleanup, contain clean-up materials, and dispose of waste materials. Contaminated debris and any used absorbents will be placed within US Department of Transportation (DOT)-approved shipping containers.

If a large spill (greater than 25 gallon) is detected, the detector will immediately notify facility management and quickly make an assessment with regards to safety or potential for fire, explosion, or personal injury. If it can be accomplished safely, the detector will shut down any equipment that is involved in the spill or may exacerbate the spill. The detector must notify anyone working in the area to leave immediately. Facility management will then notify the State of Texas Spill-Reporting Hotline, fire, police, ambulance, and the designated emergency response contractor as necessary. Upon arrival of the fire department, police, ambulance, and emergency response contractors, facility management and associated personnel will cooperate with and aid emergency responders, as requested. Once the spill is terminated and the flow contained, the contractor will complete the final cleanup of the affected areas and dispose of waste materials. Facility management will promptly record the event, provide comments on the Spill Report Form (Appendix B of the SPCC Plan) regarding future prevention, and notify the State of Texas Spill-Reporting Hotline regarding the spill and clean-up activities. The local fire and police officials and the National Response Center will also be notified of the spill and cleanup measures if they were contacted during the spill response.

If the spill is contained and if conditions warrant, a vacuum truck may be used to remove the product. The vacuum truck owner/operator will be responsible for transporting the material off-Site for appropriate disposal. The vacuum truck owner will provide Optum with documentation of the material's disposition (manifest) and certificate of destruction. Any spill response materials used during either a small or large spill event will be immediately restocked.

Attachment F

Site Plan

BRAUN INTERTEC

F:\2024\B2401026\GIS\B2401026.aprx

BRAUN INTERTEC
The Science You Build On.

2105 Donley Dr, Suite 400
Austin, TX 78758
512.493.9691
braunintertec.com

Project No:	B2401026
Drawing No:	AF_SitePlan
Drawn By:	SL
Date Drawn:	3/18/2024
Checked By:	NS
Last Modified:	4/26/2024

Optum Pharmacy 704 AST Facility Plan

5627 University Heights Boulevard, Suite 108

San Antonio, Texas

Site Plan

Attachment F

Temporary Stormwater Section (TCEQ-0602)

BRAUN INTERTEC

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Optum Rx, Inc. / Rashun Stinson

Date: 5/14/2024

Signature of Customer/Agent:

Regulated Entity Name: Optum Pharmacy 704

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: N/A

   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: N/A

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 Actions

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

Optum Pharmacy 704 is developing a Spill Prevention, Control, and Countermeasure (SPCC) plan for this Site. Based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable because no soil disturbance will occur, and erosion controls are not required.

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Attachment B
Potential Sources of Contamination

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

There will be no demolition of concrete, asphalt, water, or other pipelines or building materials that could cause stormwater contamination. Grading activities will not be involved in this project. Based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable because no soil disturbance will occur, and erosion controls are not required.

Attachment C
Sequence of Major Activities

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

There are no major activities associated with the diesel generator installation at this Site. Based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable. No soil disturbances will occur, and impervious cover was not increased.

Attachment D
Temporary Best Management Practices and Measures

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

Based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable because no soil disturbance will occur, and erosion controls are not required.

Attachment E
Request to Temporarily Seal a Feature

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

There are no naturally occurring sensitive features located on the project site. Therefore, there will be no temporary sealing of naturally occurring sensitive features on the project site.

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Attachment F
Structural Practices

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

Based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable. No structural practices have or will be implemented because there are no pollutants of concern associated with this activity. The site is not located within a floodplain.

BRAUN INTERTEC

Attachment G
Drainage Area Map

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Additionally, based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable because no soil disturbance will occur, and erosion controls are not required.

.

Attachment H
Temporary Sediment Ponds Plans and Calculations

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

No temporary sediment ponds are planned for the construction of the proposed project. Additionally, based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable because no soil disturbance will occur, and erosion controls are not required.
.

Attachment I
Inspection and Maintenance for BMPs

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

Temporary best management practices (BMPs) are not required for this project. Based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable because no soil disturbance will occur, and erosion controls are not required.
.

Attachment J
Schedule of Interim and Permanent Soil Stabilization Practices

Optum Pharmacy 704
5627 University Heights Suite 108
San Antonio, Texas

No interim or permanent soil stabilization practices are in place for the Site. Based on communication with Joshua Vacek from the TCEQ Edwards Aquifer Protection Program on January 22, 2024, the temporary stormwater section of this application and associated attachments are not applicable because no soil disturbance will occur, and erosion controls are not required.

Owner Authorization Form

BRAUN
INTERTEC

Owner Authorization Form

Texas Commission on Environmental Quality
for Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

Land Owner Authorization

I, Jordan Arriaga of UHSC, Inc.
Land Owner Signatory Name — Land Owner Name (Legal Entity or Individual)

am the owner of the property located at
OPTUM PHARMACY 704 INC 5627 UNIVERSITY HTS STE 108 FURN FIXT MACH EQPT SUP INV
Legal description of the property referenced in the application

and am duly authorized in accordance with §213.4(c)(2) and §213.4(d)(1) or §213.23(c)(2) and §213.23(d) relating to the right to submit an application, signatory authority, and proof of authorized signatory.

I do hereby authorize OptumRX, Inc.
Applicant Name (Legal Entity or Individual)

to conduct construction of an emergency generator
Description of the proposed regulated activities

at the western side of 5627 University Heights Blvd Suite 108 (Building B).
Precise location of the authorized regulated activities

Land Owner Acknowledgement

I understand that UHSC, Inc.
Land Owner Name (Legal Entity or Individual)

Is ultimately responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation even if the responsibility for compliance and the right to possess and control the property referenced in the application has been contractually assumed by another legal entity. I further understand that any failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Land Owner Signature

Land Owner Signature

6/3/2024
Date

THE STATE OF § Texas

County of § Bexar

BEFORE ME, the undersigned authority, on this day personally appeared Jordan Arriaga 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 3 day of June 2024

LISA HOSNER
Notary ID #126905679
My Commission Expires
May 21, 2025

NOTARY PUBLIC

Lisa M. Hosner
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: May 21, 2025

Attached: (Mark all that apply)

- ☐ Lease Agreement
- ☐ Signed Contract
- ☐ Deed Recorded Easement
- ☐ Other legally binding document

Applicant Acknowledgement

I, Rashun Stinson of OptumRX, Inc.
Applicant Signatory Name — Applicant Name (Legal Entity or Individual)

acknowledge that UHSC, Inc.
Land Owner Name (Legal Entity or Individual)

has provided OptumRX, Inc.
Applicant Name (Legal Entity or Individual)

with the right to possess and control the property referenced in the Edwards Aquifer protection plan.

I understand that OptumRX, Inc.
Applicant Name (Legal Entity or Individual)

is contractually responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation. I further understand that failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Applicant Signature

Applicant Signature — Date: 6-4-24

THE STATE OF § Kentucky

County of § Jefferson

BEFORE ME, the undersigned authority, on this day personally appeared Rashun Stinson 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 4 day of June 2024

Tabitha Kay Hiser
NOTARY PUBLIC

Tabitha Kay Hiser
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 02/17/2026
KYNP44992

Agent Authorization Form (TCEQ-0599)

BRAUN INTERTEC

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

I Rashun Stinson,
Print Name

Director of Environmental, Health and Safety,
Title - Owner/President/Other

of OptumRX, Inc.,
Corporation/Partnership/Entity Name

have authorized Braun Intertec Corporation
Print Name of Agent/Engineer

Of Braun Intertec Corporation
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:

6-4-24
Applicant's Signature Date

THE STATE OF Kentucky §
County of Jefferson §

BEFORE ME, the undersigned authority, on this day personally appeared Rashun Stinson 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 4 day of June, 2024.

Tabitha Kay Hiser
NOTARY PUBLIC

Tabitha Kay Hiser
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 02/17/2026
KYNP44992

Application Fee Form (TCEQ-0574)

BRAUN INTERTEC

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Optum Pharmacy 704
Regulated Entity Location: 5627 University Heights Ste 108
Name of Customer: OptumRx, Inc.
Contact Person: Rashun Stinson Phone: 763.330.3140
Customer Reference Number (if issued):CN CN605652767
Regulated Entity Reference Number (if issued):RN RN110764388
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	Acres	$
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	1 Tanks	$ 650
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: _____ Date: 5/14/2024

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

Core Data Form (TCEQ-10400)

BRAUN INTERTEC

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.

A.1. 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 605652767		RN 110764388

A.2. 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:*

Optum Rx, Inc.

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
801343141	13304412003		

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 ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address: 5627 University Heights Blvd Suite 108

City	San Antonio	State	TX	ZIP	78249	ZIP + 4	

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)*
(763) 330-3140		( ) -

A.3. 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.)*

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	5627 University Heights Blvd Suite 108							
	City	Austin	**State**	TX	**ZIP**	78249	**ZIP + 4**	
24. County								

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**

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:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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)
		446110	

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

Home Delivery Pharmacy.

34. Mailing Address:								
	5627 University Heights Blvd Suite 108							
	City	**San Antonio**	**State**	**TX**	**ZIP**	**78249**	**ZIP + 4**	
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:

A.4. SECTION IV: Preparer Information

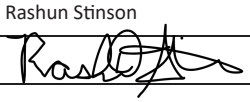
40. Name:	Janice King	**41. Title:**	Project Scientist

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512 **)** 221-8902		**( ) -**	jking@braunintertec.com

A.5. 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:	Optum Rx, Inc.	**Job Title:**	Director, EHS

Name *(In Print):*	Rashun Stinson	**Phone:**	**(** 763 **)** 330- **3140**
Signature:		**Date:**	5/14/2024

Plan Sheet

BRAUN INTERTEC

SYMBOL LEGEND

PATH OF TRAVEL

FEC — FIRE EXTINGUISHER (SEE DETAIL 4D / A531)

BUSINESS OCCUPANCY

FACTORY INDUSTRIAL GROUP F-1 OCCUPANCY

STORAGE GROUP S-1 OCCUPANCY

ASSEMBLY OCCUPANCY

EGRESS SUMMARY CHART		DISTANCE	
CODE ISSUE	LOCATION	MAXIMUM	ACTUAL
FACTORY COMMON PATH	A1 TO B1	100'-0"	59' - 7"
FACTORY PATH OF EGRESS	A1 TO C1	250'-0"	161' - 4"
	A1 TO C4	250'-0"	191' - 7"
WAREHOUSE COMMON PATH	A2 TO B2	100'-0"	35' - 4"
	A3 TO B3	100'-0"	20' - 1"
WAREHOUSE PATH OF EGRESS	A2 TO C1	250'-0"	172' - 0"
	A2 TO C2	250'-0"	150' - 2"
	A3 TO C3	250'-0"	82' - 7"
	A3 TO C4	250'-0"	115' - 4"

NOTE: VERIFY FINAL LOCATIONS AND QUANTITIES OF FIRE EXTINGUISHERS WITH FIRE MARSHAL.

BUILDING CODE SUMMARY

THIS PROJECT CONSISTS OF REPLACING AN EXISTING 275 KW GENERATOR WITH A NEW 1000 KW GENERATOR OF AN EXISTING BUILDING. OPERATIONAL REQUIREMENT TO BACK UP CRITICAL EQUIPMENT WITH EMERGENCY GENERATOR POWER. THE PROJECT INCLUDES ARCHITECTURAL AND ELECTRICAL SCOPE OF WORK. A NEW GENERATOR, AUTOMATIC TRANSFER SWITCH (ATS), GENERATOR DISTRIBUTION PANEL (GSB1), MAIN DISTRIBUTION PANEL (MSB1), AND LOAD BANK CONNECTION CABINET WILL BE PROVIDED ON EXTERIOR. THE USE AND OCCUPANCY TYPE OF THE BUILDING WILL NOT BE CHANGING.

BUILDING DEPARTMENT:

CITY OF SAN ANTONIO

Cliff Morton Development and Business Services Center
1901 South Alamo Street
San Antonio, TX 78204
(210) 207-1111

APPLICABLE CODES:

BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE (WITH LOCAL AMENDMENTS)
FIRE/LIFE SAFETY CODE:	2018 INTERNATIONAL FIRE CODE (WITH LOCAL AMENDMENTS)
MECHANICAL CODE:	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE:	2018 INTERNATIONAL PLUMBING CODE
ELECTRICAL CODE:	2017 NATIONAL ELECTRICAL CODE
ACCESSIBILITY CODE:	2012 TEXAS ACCESSIBILITY STANDARDS

CODE STATISTICS:

USE & OCCUPANCY CLASSIFICATION: MIXED USE: B, F1, S-1. NON-SEPARATED PER 508.3. ACCESSORY ASSEMBLY AREA NON-SEPARATED PER 508.2.4.

CONSTRUCTION CLASSIFICATION: TYPE - V-B - FULLY SPRINKLERED

TENANT AREA:

- GROSS FLOOR AREA: 38,174 S.F.

NUMBER OF OCCUPANTS:

- ASSEMBLY AREA: (Net area / 15 Net) — 1,019 S.F. / 15 = 70
- BUSINESS AREA: (Gross area / 150) — 5,693 S.F. / 150 = 38
- FACTORY/STOCK+ SHIPPING (F-1): (Gross area / 300) — 24,257 S.F. / 300 = 81
- STORAGE AREAS (S-1): (Gross area / 300) — 7,205 S.F. / 300 = 24
- TOTAL: 213 OCCUPANTS

MEANS OF EGRESS:

213 OCCUPANTS X .2 (SPRINKLER OR NOT) = 42.6" WIDTH NEEDED

- WIDTH PROVIDED: 340"
- NUMBER OF EXITS REQUIRED: 2
- NUMBER OF EXITS PROVIDED: 8

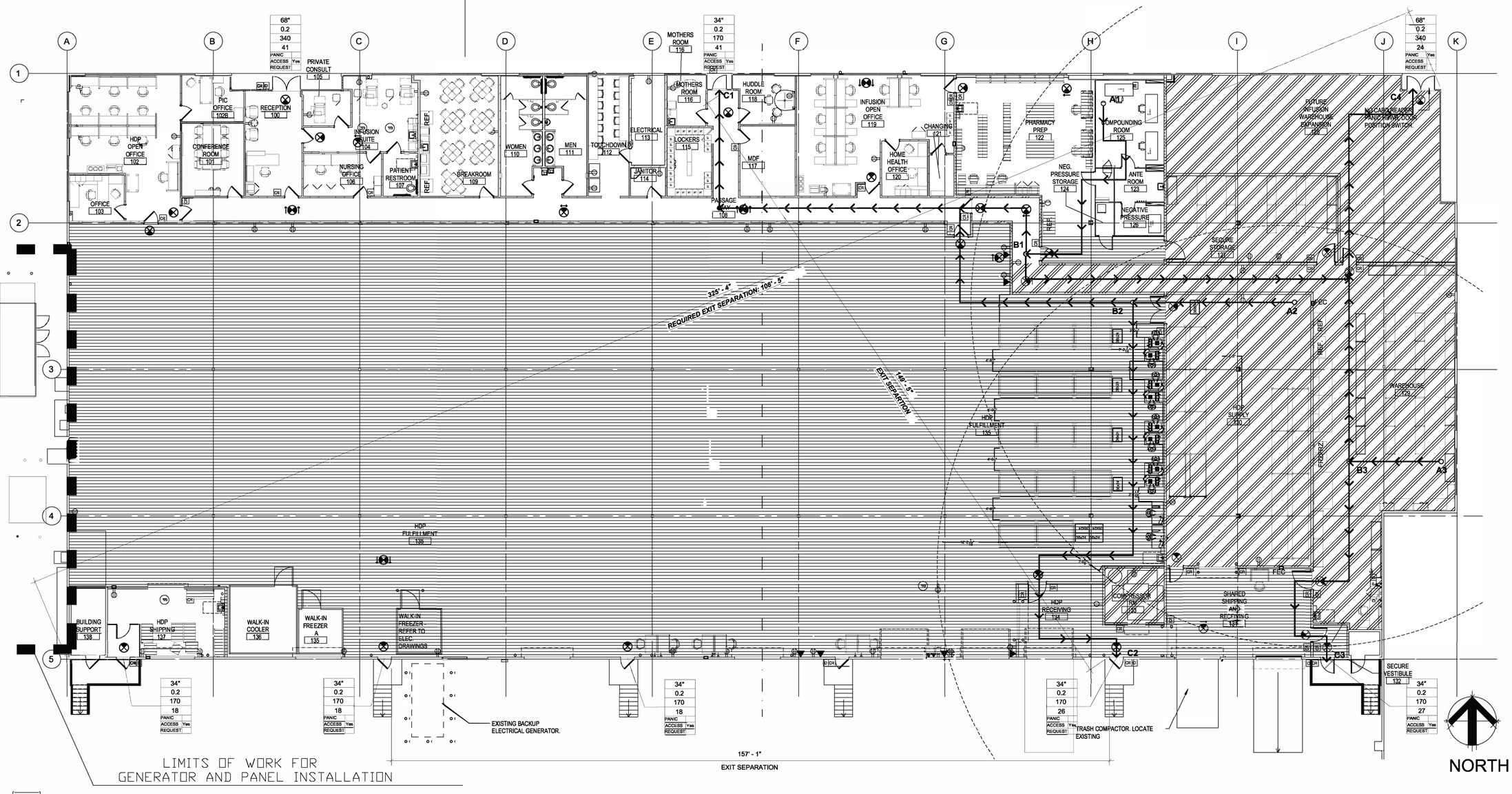
PLUMBING CALCULATIONS:

PLUMBING FIXTURES REQUIRED:

- WATER CLOSETS: 6 (3 PER SEX)
- URINALS: 0
- LAVATORIES: 6 (3 PER SEX)
- DRINKING FOUNTAINS: 1 HI-LOW DRINKING FOUNTAIN

PLUMBING FIXTURES PROVIDED:

- WATER CLOSETS: 7 (3 WOMEN, 2 MEN, 1 UNISEX)
- URINALS: 1
- LAVATORIES: 7 (3 WOMEN, 3 MEN, 1 UNISEX)
- DRINKING FOUNTAINS: 1 HI-LOW DRINKING FOUNTAIN



1A / G002 OVERALL - EGRESS PLAN
3/32" = 1'-0"

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
1300 Dove Street, Suite 100
Newport Beach, CA 92660
T: 949.698.1400
www.littleonline.com

OPTUM

REGISTERED ARCHITECT DOUGLAS E. ROBIDOUX 17748 STATE OF TEXAS
10/3/22

FOR CONSTRUCTION

09.13.2022

NO.	REASON	DATE

PROJECT MANAGER
JIM LYNCH

ARCHITECT OF RECORD
DOUG ROBIDOUX

JLL PROJECT MANAGER
DJORDJE JOVICIC

OPTUM Rx
GENERATOR UPGRADE

Location Code: TX428
UHG #: P3EFA39
5627 UNIVERSITY HEIGHTS BLVD, BLDG 1
SAN ANTONIO, TX 78249

672-16248-00

BUILDING CODE SUMMARY

G002

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