Recharge and Transition Zone Exception Request Form Checklist

X **Edwards Aquifer Application Cover Page (TCEQ-20705)**

X **General Information Form (TCEQ-0587)**

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

X **Geologic Assessment Form (TCEQ-0585), if necessary**

Attachment A - Geologic Assessment Table (TCEQ-0585-Table)
Comments to the Geologic Assessment Table
Attachment B - Soil Profile and Narrative of Soil Units
Attachment C - Stratigraphic Column
Attachment D - Narrative of Site Specific Geology
Site Geologic Map(s)
Table or list for the position of features' latitude/longitude (if mapped using GPS)

X **Recharge and Transition Zone Exception Request Form (TCEQ-0628)**

Attachment A - Nature of Exception
Attachment B - Documentation of Equivalent Water Quality Protection

X **Temporary Stormwater Section (TCEQ-0602), if necessary**

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

N/A **Permanent Stormwater Section (TCEQ-0600), if necessary**

Attachment A - 20% or Less Impervious Cover Waiver, if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site
Attachment B - BMPs for Upgradient Stormwater
Attachment C - BMPs for On-site Stormwater
Attachment D - BMPs for Surface Streams
Attachment E - Request to Seal Features, if sealing a feature

Attachment F - Construction Plans
Attachment G - Inspection, Maintenance, Repair and Retrofit Plan
Attachment H -Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs
Attachment I -Measures for Minimizing Surface Stream Contamination

X **Agent Authorization Form (TCEQ-0599), if application submitted by agent**

X **Fee Application Form (TCEQ-0574)**

– **Check Payable to the "Texas Commission on Environmental Quality"**

X **Core Data Form (TCEQ-10400)**

Table of Contents

Kimley»Horn

SECTION 1: EDWARDS AQUIFER APPLICATION COVER PAGE

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: Rockwall Ranch Subdivision					**2. Regulated Entity No.: RN 104256243**				
3. Customer Name: SJWTX, Inc.					**4. Customer No.: 602969396**				
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):**		1.57 acres		
9. Application Fee:	$1150		**10. Permanent BMP(s):**						
11. SCS (Linear Ft.):			**12. AST/UST (No. Tanks):**		1				
13. County:	Comal		**14. Watershed:**		Comal River – Guadalupe River – West Fork				

Application Distribution

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

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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	___
Region (1 req.)	___	___	___
County(ies)	___	___	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	_x_	___	___	___
Region (1 req.)	___	_x_	___	___	___
County(ies)	___	_x_	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	_x_Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge ___New Braunfels ___Schertz	NA	___San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Rachel Tackett, P.E.
Print Name of Customer/Authorized Agent  8/29/2024
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):	

SECTION 2:
GENERAL INFORMATION

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: Rachel Tackett, P.E

Date: 8/27/2024

Signature of Customer/Agent:

Project Information

1. Regulated Entity Name: Rockwall Ranch Subdivision
2. County: Comal
3. Stream Basin: Comal River - Guadalupe River - West Fork
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: Aundrea Williams
   Entity: SJWTX, Inc.
   Mailing Address: 1399 Sattler Road
   City, State: Canyon Lake, TX Zip: 78132
   Telephone: 408-314-9818 FAX: N/A
   Email Address: Aundrea.Williams@txwaterco.co

8. Agent/Representative (If any):

   Contact Person: Rachel Tackett, P.E
   Entity: Kimley-Horn & Associates
   Mailing Address: 5301 Southwest Pkwy, Bldg 2, Ste 100
   City, State: Austin, Texas Zip: 78735
   Telephone: 512-271-6330 FAX: _____
   Email Address: Rachel.tackett@kimley-horn.com

9. Project Location:

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

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

    The location of the project is within Rockwall Ranch Subdivision, adjacent to the intersection of Rockwall Parkway and Schoenthal Road.

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.

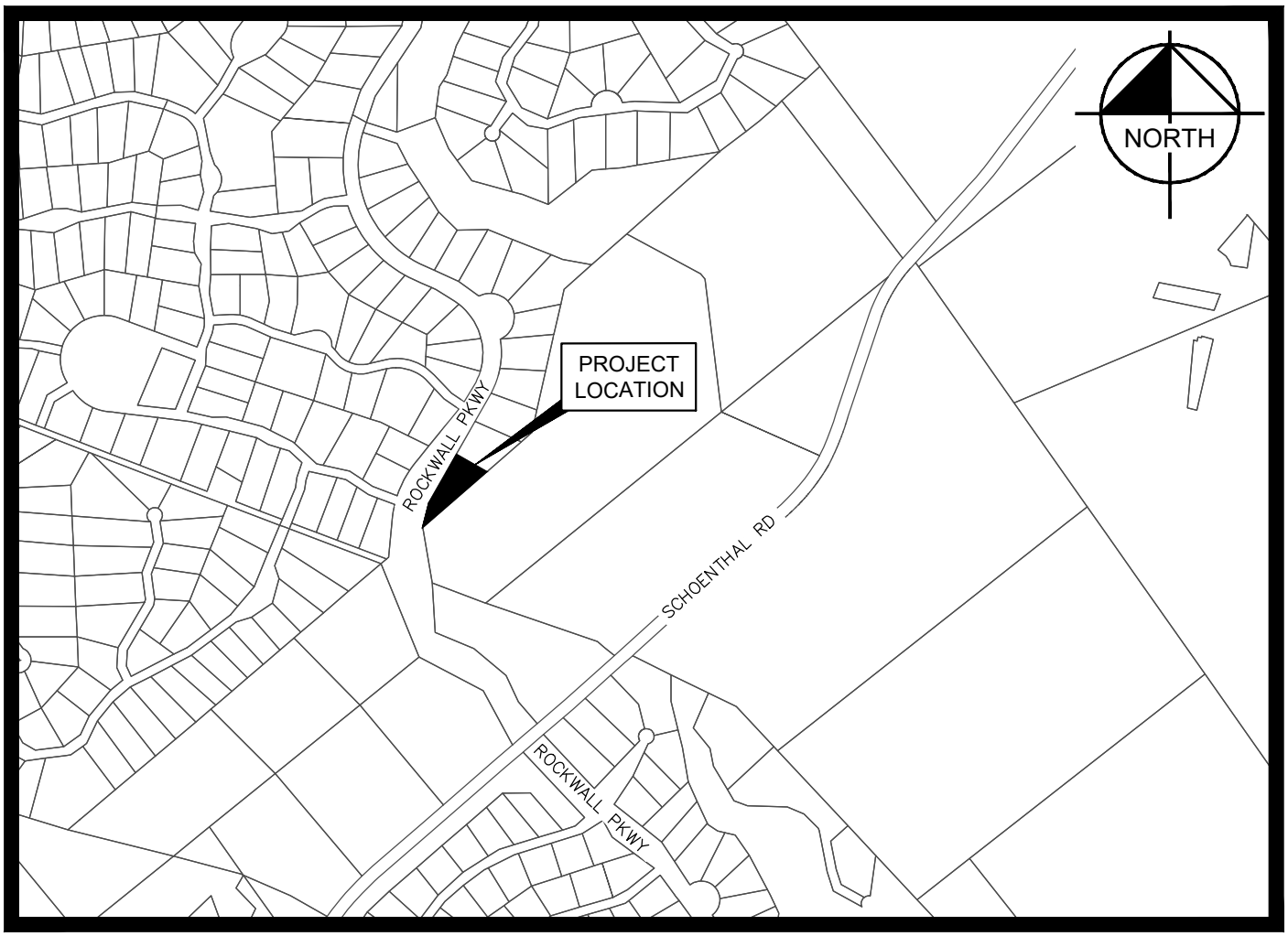
21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

Attachment A
Road Map

ROAD MAP

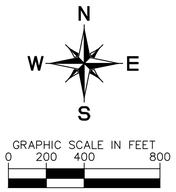
KT WATER SYSTEM

26702 ROCKWALL PKWY, NEW BRAUNFELS, TEXAS, 78132



SCALE: 1" = 1,000'

Kimley»Horn



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KT WATER SYSTEM

ROAD MAP

Attachment B
USGS/Edwards Recharge Zone Map

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BAT CAVE QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

Edwards Aquifer Contributing Zone

Edwards Aquifer Contributing Zone

Edwards Aquifer Recharge Zone

Project Site

Edwards Aquifer Contributing Zone within the Transition Zone

Edwards Aquifer Transition Zone

Edwards Aquifer Transition Zone

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

Control by USGS and NOS/NOAA

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

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

Fine red dashed lines indicate selected fence lines

Red tint indicates areas in which only landmark buildings are shown

UTM GRID AND 1988 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

QUADRANGLE LOCATION

2998-424

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

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

INTERIOR GEOLOGICAL SURVEY, RESTON, VIRGINIA 1988

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program

Regulatory Zones

30 TAC Chapter 213- Edwards Aquifer
Effective September 2005

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

Attachment C
Project Description

Project Description

Site History

The subject site is approximately 1.57 acres in Comal County and is within the Edwards Aquifer Recharge Zone. The site has been released from the Extraterritorial Jurisdiction of the City of New Braunfels and is part of the Rockwall Ranch Subdivision WPAP (ID RN: 104256243).
As discussed in a pre-application meeting with TCEQ held on April 29, 2024, SWJTX, Inc. is seeking an exception for the WPAP to accommodate the proposed site improvements.

Land Use

The lots consist of 1.57 acres of undeveloped land.

Existing Drainage Conditions

Under existing conditions, the 1.57 acre subject site generally drains to the northeast side of the property that flows into the adjacent 100-yr FEMA floodplain 48091C0410F.

Proposed Development

The proposed project includes the construction of an access drive, an electrical building, a generator pad with concrete, and a transformer pad, resulting in an additional 0.11 acres of impervious cover on the site. The proposed project raises the total impervious cover for the overall Rockwall Ranch Subdivision WPAP from 12% to 12.05%. The only demolition required for the project is the removal of an existing concrete pad and trees within the project area.

Kimley»Horn

SECTION 3: GEOLOGIC ASSESSMENT FORM

5301 Southwest Parkway, Building 2, Suite 100, Austin, TX 78735 512 646 2237

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

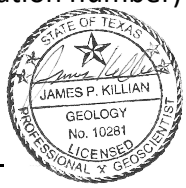
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: James Killian Telephone: 512-328-2430

Date: 2 May 2024 Fax: 512-328-1804

Representing: Horizon Environmental Services and TBPG Form Registration No. 50679 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: Approximately 13.5-acre KT Water Supply Project Tract; North Schoenthal Road and Rockwall Parkway, New Braunfels, Comal County, Texas

Project Information

1. Date(s) Geologic Assessment was performed: 17 and 19 April 2024
2. Type of Project:

   ☒ WPAP ☒ AST
   ☐ SCS ☐ 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)
Comfort-Rock outcrop complex, 1-8% slopes (CrD)	D	1.1
Medlin, warm-Eckrant association, 1-8% slopes (MEC)	D	3.2
Rumple-Comfort, rubbly association, 1-8% slopes (RUD)	C	4.3

Soil Name	Group*	Thickness(feet)

** 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" = 400'

Site Geologic Map Scale: 1" = 400'
Site Soils Map Scale (if more than 1 soil type): 1" = 500'

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 1 (#) 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.

Attachment A
Geologic Assessment Table

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: KT Water Supply Project; N. Schoenthal Rd & Rockwall Pkwy; New Braunfels, Comal Co., TX

LOCATION			FEATURE CHARACTERISTICS											EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)	TOPOGRAPHY
						X	Y	Z		10						<40	>40	<1.6	>1.6	
F-1	29.692	-98.269208	F	20	Kpcm	100	75	--					C,F,O	15	35	X		X		Hillside
F-2	29.693	-98.270936	F	20	Kg/Krpd	50	75	--					C,F,O	15	35	X		X		Hillside
M-1	29.691	-98.269059	MB	30	Kpcm	1	1	--					X	5	35	X		X		Hillside
M-2	29.689	-98.266455	MB	30	Kg	1	1	--					X	5	35	X		X		Hillside
M-3	29.695	-98.274422	MB	30	Kplc	1	1	--					X	5	35	X		X		Hillside

* DATUM:_____

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

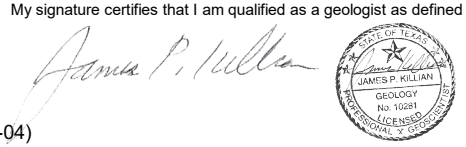
8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave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

12 TOPOGRAPHY

Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.

My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.



Date: 2 May 2024

Sheet ___1___ of ___1___

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

Attachment B
Stratigraphic Column

Geologic Unit	Geologic Member	Hydrologic Unit	Approx. Thickness at Project Site (ft)	Elevation (ft msl)	Depth (ft)
				930	0
Georgetown Formation (Kg)		Edwards Aquifer	20		
				910	20
Person Formation	Cyclic & marine (Kpcm)	Edwards Aquifer	80		
				830	100
	Leached & Collapsed (Kplc)	Edwards Aquifer	85		
				745	185
	Regional Dense (Kprd)	Edwards Aquifer	20		
				725	205

Note: Unit elevation and thickness given with respect to a ground surface elevation of 930 ft along the northwestern boundary of the subject site.

Horizon™ Environmental Services

Date:	04/30/2024
Drawn:	KRW
HJN NO:	24087.001 GA

Attachment B

Stratigraphic Column
KT Water Supply Project Tract
N Schoenthal Rd & Rockwall Parkway
New Braunfels, Comal County, Texas

STATE OF TEXAS
JAMES P. KILLIAN
GEOLOGY
No. 10281
LICENSED
PROFESSIONAL GEOSCIENTIST

24087--KT_Water_Supply_Project\Graphics\24087-001GA_05A_Strat.mxd

Attachment C

Site Geology

Geologic information for the subject site obtained via literature review is provided in Attachment E, Supporting Information.

A geologic assessment of approximately 13.5 acres located at North Schoenthal Road and Rockwall Parkway, New Braunfels, Comal County, Texas, was conducted pursuant to Texas rules for regulated activities in the Edwards Aquifer Recharge Zone (EARZ) (30 TAC 213). The subject site consists of undeveloped mixed rangeland and woodlands. Assessment findings were used to develop recommendations for site construction measures intended to be protective of water resources at the subject site and adjacent areas.

The entire subject site is located within the Edwards Aquifer Recharge Zone (EARZ), as defined by the Texas Commission on Environmental Quality (TCEQ). The EARZ occurs where surface water enters the subsurface through exposed limestone bedrock containing faults, fractures, sinkholes, and caves.

The subject site is underlain by the Georgetown Formation (Kg) as well as the Cyclic and Marine Member (Kpcm), Leached and Collapsed Member (Kplc), and Regional Dense Member (Kprd) of the Edwards Group Person Formation (Blome et al., 2005). The listed geologic units have estimated maximum thicknesses of about 20 feet thick, 80 feet thick, 85 feet thick, and 20 feet thick, respectively.

Two naturally occurring geologic features (F-1 and F-2) and 3 man-made features (M-1 to M-3) were identified at this site. Further information pertaining to the features is presented in the following Attachments D, E, and F. Photographs of the subject site and the geologic and man-made features are presented in Attachment G.

Attachment D

Site Geologic Map(s)

Kplc
Kprd
Ka
M-3
Schoenthal Road
F-2
F-1
M-1
Kg
Kdr
Kdr
Kg
M-2
Rockwall Parkway
Kpcm
Kg
Kdr

Legend

- Man-made Feature
- Fault
- Subject Site
- Austin Group (Ka)
- Del Rio Clay (Kdr)
- Georgetown Formation (Kg)
- Person Formation-Cyclic and marine (Kpcm)
- Person Formation-Leached and collapsed (Kplc)
- Person Formation-Regional dense (Kprd)

Horizon Environmental Services

Date:	04/30/2024
Drawn:	KRW
HJN NO:	24087.001 GA
Source:	TWSC, 2014; Nearmap, 2023

Attachment D

Site Geologic Map
KT Water Supply Project Tract
N Schoenthal Rd & Rockwall Parkway
New Braunfels, Comal County, Texas

STATE OF TEXAS
JAMES P. KILLIAN
GEOLOGY
No. 10291
LICENSED
PROFESSIONAL GEOSCIENTIST

N

0 200 400
Feet

24087--KT_Water_Supply_Project\Graphics\24087-001GA_03A_Buffers

SECTION 4: RECHARGE EXCEPTION REQUEST FORM

5301 Southwest Parkway, Building 2, Suite 100, Austin, TX 78735 512 646 2237

Recharge and Transition Zone Exception Request Form

Texas Commission on Environmental Quality
30 TAC §213.9 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 **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Rachel Tackett, P.E.
Date: 8/28/2024
Signature of Customer/Agent:

Regulated Entity Name: Rockwall Ranch Subdivision

Exception Request

1. ☒ **Attachment A - Nature of Exception**. A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
2. ☒ **Attachment B - Documentation of Equivalent Water Quality Protection**. Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

3. ☒ 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.
4. ☒ The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
5. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

Attachment A
Nature of Exception

Kimley-Horn is seeking an exception to the Water Pollution Abatement Plan (WPAP) for the site located northwest of the intersection of Rockwall Parkway and Schoenthal Road. The 1.57-acre project involves constructing an access drive, an electrical building, a generator pad with concrete, and transformer pads. The site is part of the existing approved Rockwall Ranch Subdivision WPAP (RN104256243), which covers a total of 912 acres. The development will add 0.11 acres (7.31%) of impervious cover, increasing the total impervious cover for the Rockwall Ranch Subdivision WPAP from 12% to 12.05%. The original WPAP did not require permanent stormwater management since the impervious cover was below 20%. Given that the proposed increase in impervious cover is minimal and continues to remain below 20% along with the fact that drainage area maps show minimal impact to flow at the point of analysis, we are requesting an exception.

Attachment B
Documentation of Equivalent Water Quality Protection

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 6, 2004

Mr. Scott Knowlton
KT Real Estate Investments, Ltd.
18225 FM 2252
San Antonio, TX 78266

Re: Edwards Aquifer, Comal County
NAME OF PROJECT: Rockwall Ranch Subdivision; Located west of the intersection of FM 1863 and Schoenthal Road and is bound by FM 1863 on the north and by Schoenthal Road to the south; New Braunfels, Texas
TYPE OF PLAN: Request for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer
Edwards Aquifer Protection Program File No. 2177.00
Regulated Entity ID: RN104256243

Dear Mr. Knowlton:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP application for the referenced project submitted to the San Antonio Regional Office by Todd Simmang, P.E. of Carter & Burgess, Inc. on behalf of KT Real Estate Investments, Ltd. on April 21, 2001. Final review of the WPAP application was completed after additional material was received on September 2, 2004, and September 23, 2004. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed, and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer protection plan. A motion for reconsideration must be filed no later than 20 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The Rockwall Ranch subdivision includes 1,291 acres of which 379 acres adjacent to FM 1863 and Schoenthal Road have been subdivided into lots that are 10 acres or larger and are not included within the site covered by this WPAP. The proposed residential project covered by this WPAP will have an area of approximately 912 acres. The site will include 497 single family residential lots, roads, and utilities. The impervious cover will be 109.8 acres (12 percent). According to a letter dated, March 30, 2004, signed by Tom Hornseth, P.E., with Comal County, the site in the development is acceptable for the use of on-site sewage facilities (OSSFs).

PERMANENT POLLUTION ABATEMENT MEASURES

Since this single-family residential project will not have more than 20 percent impervious cover, an exemption from permanent BMPs is approved.

Separation distances for on-site sewage facilities from sensitive features and feature related drainage easements are identified in the following table.

Feature ID	Feature Surface Dimensions (feet)	Setback/Easement Dimensions
*S-2	200 x 200 x 5	250' radius
*S-8 ✻	100 x 70 x 1.5	470' x 370'
*S-9	3.5 x 1 x 1.5	151.75' radius
S-10	200 x 200 x 3	#
*S-14	2 x 2 x 5	153.50' radius
*S-16	1 x 1 x 2.5	150' radius
*S-17 ✻	0.75 x 0.75 x 1.5	150' radius
*S-23	0.8 x 0.5 x 3.5	153' radius
*S-25	2 x 1 x 0.8	151' radius
*S-29	8 x 8 x 4	154' radius
*S-32	100 x 40 x 4	340' x 440'
*S-33	65 x 55 x 5	413' x 395'
*S-34	45 x 30 x 6	413' x 395'
*S-35	15 x 15 x 10	180' radius
*S-46	-Water Well-	150' radius
S-47	360 x 360 x 5	#
S-48	540 x 450 x 3	#
*S-49	-Water Well-	150' radius
*S-59	2.5 x 1.5 x 1	151.5' radius
S-61	400 x 300 x 5	#

* - Sensitive Feature
# - Drainage easement to be determined by completed drainage study and shown on final plat
✻- Outside 912 acre site but impacts lots covered by the WPAP

GEOLOGY

According to the geologic assessment included with the application, 61 geologic or man-made features were identified within the 1,291 acre Rockwall Ranch Subdivision. Thirty-eight geologic or manmade features occur within the 912 acres covered by this WPAP. Of the 38 features identified within the site, 14 features were assessed as sensitive. The San Antonio Regional Office site inspection of July 20, 2004, and September 2, 2004, revealed that the site is generally as described by the geologic assessment.

SPECIAL CONDITIONS

I. If the impervious cover ever increases above 20 percent or the land use changes, the exemption for the whole site may no longer apply and the property owner must notify the San Antonio Regional Office of these changes.

II. Drainage easements and OSSF separation distances must be shown on the respective plats. Two copies of each plat must be submitted to the San Antonio Region office within 30 days after plat has been recorded.

III. Any geologic features discovered during construction and assessed as sensitive must have the appropriate separation distances between the feature and the OSSF components as specified in 30 Texas Administrative Code 285.

STANDARD CONDITIONS

1. Pursuant to §26.136 of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

Prior to Commencement of Construction:

2. Within 60 days of receiving written approval of an Edwards Aquifer protection plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.

3. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.

4. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.

5. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and file number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.

6. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

7. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

<u>During Construction:</u>

8. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.

9. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.

10. Two wells exist on the 912 acre site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.

11. If sediment escapes the construction site, the 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). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.

12. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

13. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

14. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.

15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.

17. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

If you have any questions or require additional information, please contact Lynn M. Bumguardner of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210.403.4023.

Sincerely,

Bobby D. Caldwell

for Glen Shankle
Executive Director
Texas Commission on Environmental Quality

GS/LMB/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625
Change in Responsibility for Maintenance on Permanent BMPs-Form TCEQ-10263

cc: Mr. Todd Simmang, P.E, Carter & Burgess, Inc.
Mr. Michael Short, P.E., City of New Braunfels
Mr. Tom Hornseth, Comal County
Mr. Greg Ellis, Edwards Aquifer Authority
TCEQ Central Records MC 212

SECTION 5: ABOVEGROUND STORAGE TANK FACILITY PLAN APPLICATION FORMS

5301 Southwest Parkway, Building 2, Suite 100, Austin, TX 78735 512 646 2237

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: Rachel Tackett, P.E

Date: 8/27/2024

Signature of Customer/Agent:

Regulated Entity Name: Rockwall Ranch Subdivision

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	756	DIESEL	STEEL
2			
3			
4			

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

Total x 1.5 = 1134 **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*
17.224	5.316	1.916	175.43	1312.5

Total: 1312.5 **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" = 10'.

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): _.

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 1 (#) 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 October 2004. 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.

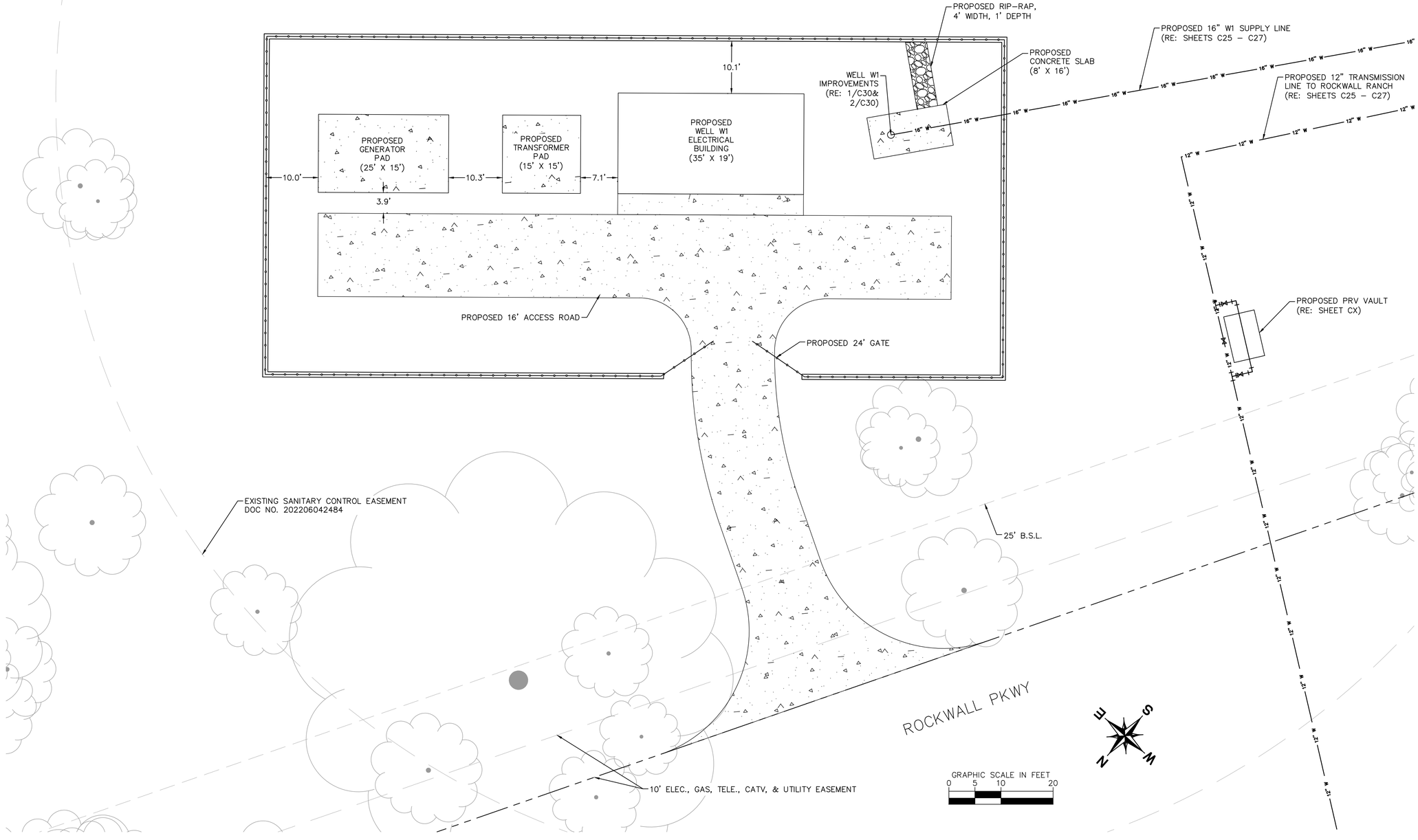
☐ The proposed AST is located on the Transition Zone and a WPAP is not required. Information requested in 30 TAC 213.5 subsection (b) (4)(B) and (C) and (5) is provided with this application. (Forms TCEQ-0600 Permanent Stormwater Section and TCEQ-0602 Temporary Stormwater Section or Stormwater Pollution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

Site Plan



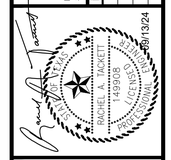
1 C29 WELL W1 SITE PLAN AND DIMENSIONAL CONTROL

SCALE: 1" = 10'

K:\SAU_MKT\069277513_CLMSC-KT Wellfield\CAD\PLANSHEETS\WELL W1 SITE PLAN & DIM CONTROL.dwg 9/13/2024 8:41 AM

Kimley»Horn
Firm No. F-928
5301 Southwest Pkwy, Bldg 3, Suite 100, Austin, TX, 78735 P: 512-646-2237

No.	Revision	By	Date



KT WATER SYSTEM
PUMP STATION #1

TEXAS WATER COMPANY

WELL W1 SITE PLAN &
DIMENSIONAL CONTROL

DATE:	SEPTEMBER 2024
DESIGN:	RAT
DRAWN:	LEG
CHECKED:	SRM
KHA NO.:	069277513

SHEET

C29

Attachment B

Scaled Drawings of Containment Structure

PowerTank

Double-Wall Secondary Containment Sub-Base Tanks

phoenixproducts

DOUBLE-WALL GENERATOR SUB-BASE FUEL TANKS

Steel aboveground sub-base tanks for flammable and combustible liquids

- UL 142 listed and labled – inner and outer tanks are completely enclosed and pressure tested
- Meets requirements for secondary containment, leak monitoring, spill containment, and overfill protection
- No external cross beams or side supports to interfere with generator placement or stairs and walkways
- Supports generator sets up to 80,000 pounds, with or without enclosures
- Primary and emergency vents standard
- Rounded corners allowing proper adherence of industrial grade enamel coating
- Steel support channel allow visual tank bottom inspection and air circulation

Designed to meet or exceed national, state and local codes

- NFPA 30, 30A, 37 & 110
- True double-wall construction for UL Certification
- Exceeds liability insurance requirements
- Engineered for seismic rating
- Earthquake and hurricane tie downs
- Leak detection space provided

phoenixproducts™
1727 Bennett Street, Jacksonville, FL 32206 • 904-354-1858 • 904-354-7929 Fax
phoenix.sales@phoenixprods.com • www.phoenixprods.com

Options

- Stairs and platforms (aluminum/galvanized steel) meeting OSHA standards with handrails
- Cold weather heaters
- Stainless steel inner and outer tanks
- Custom color matching
- Over-fill spill protection
- Fuel polishing systems
- Dispensing equipment
- Fuel monitoring and control systems
- Daytanks with supply and return pumps
- Tank top guard rails approved by OSHA

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Model 354 Updraft Vent

SPECIFICATION SHEET

Application

Atmospheric updraft vents are installed on the top of storage tank vent pipes on underground and aboveground fuel storage tanks.

Features and Details

- Directs vapors outward and upward in accordance with NFPA 30
- Protects the vent line from debris and insects
- Water-resistant rain cap sheds water away from the vent line
- Slip-on design with set screws for easy installation
- Internal drain channels water penetration out through weep hole
- **354T** is compatible with DEF

354 (2″)

354T (2″)

Materials of Construction

354

- Body and cap... aluminum die cast
- Screen... 40 mesh stainless steel

354T

- Body and cap... Teflon® coated black aluminum
- Screen... 40 mesh stainless steel

Certifications and Listings

- CARB 89-12 (1½″ and 2″ 354 models)

Item Number	Size (slip-on)	Weight (lbs)	Venting Capacity (SCFH) (@ 2.5 PSI)
354---0100 AV	1½″	0.75	27,650
354---0200 AV	2″	0.75	27,650
354---0300 AV	3″	1.50	59,000
354---0400 AV	4″	2.25	116,900
354T--0200 AV	2″	0.75	27,650
354T--0300 AV	3″	1.50	59,000

NOTE

Open vents will allow unrestricted evaporation of product.

WARNING: DO NOT FILL OR UNLOAD FUEL FROM A STORAGE TANK UNLESS IT IS CERTAIN THAT THE TANK VENTS WILL OPERATE PROPERLY. Morrison tank vents are designed only for use on shop fabricated atmospheric tanks which have been built and tested in accordance with UL 142, NFPA 30 & 30A, and API 650 and in accordance with all applicable local, state and federal laws. In normal operation, dust and debris can accumulate in vent openings and block air passages. Certain atmospheric conditions such as a sudden drop in temperature, below freezing temperatures, and freezing rain can cause moisture to enter the vent and freeze which can restrict internal movement of vent mechanisms and block air passages. All storage tank vent air passages must be completely free of restriction and all vent mechanisms must have free movement in order to insure proper operation. Any restriction of airflow can cause excessive pressure or vacuum to build up in the storage tank, which can result in structural damage to the tank, fuel spillage, property damage, fire, injury, and death. Monthly inspection, and immediate inspection during freezing conditions, by someone familiar with the proper operation of storage tank vents, is required to insure venting devices are functioning properly before filling or unloading a tank. Normal vents such as pressure vacuum and updraft vents for aboveground storage tanks should be sized according to NFPA 30 (2008) 21.4.3

MORRISON BROS. CO.

570 E. 7th Street, P.O. Box 238 | Dubuque, IA 52004-0238
t. 563.583.5701 | 800.553.4840 | f. 563.583.5028
www.morbros.com

Model 244 Emergency Vents | 6-inch

SPECIFICATION SHEET

Application

UL Listed emergency vent (pressure relief only) used on aboveground storage tanks, as a code requirement, to help prevent the tank from becoming over-pressurized and possibly rupturing if ever exposed to fire. The vent must be used in conjunction with a “normal vent.” Correct application of this vent requires proper vent size and selection for the tank system in order to meet the specific venting capacity requirement.

Fig. 244OM

c UL US LISTED

UL 2583

Code Compliance

When properly sized for the tank, this vent will conform to the requirements of the International Fire Code; National Fire Code of Canada; National Fire Protection Agency - NFPA 1, 30, 30A, 31, 37, 110; Petroleum Equipment Institute - PEI RP200, PEI RP800; Underwriters Laboratories Inc. UL-142, UL-2085, UL- 2244; Underwriters Laboratories of Canada CAN/ULC S601, CAN/ULC S602,CAN/ULC S652

Approvals

California Air Resource Board (CARB) Phase 1 Enhanced Vapor Recovery (EVR) AST Certified Products (VR-402-B) EVR ; Underwriters Laboratories Inc. UL-2583

WARNING: DO NOT FILL OR UNLOAD FUEL FROM A STORAGE TANK UNLESS IT IS CERTAIN THAT THE TANK VENTS WILL OPERATE PROPERLY. Morrison tank vents are designed only for use on shop fabricated atmospheric tanks which have been built and tested in accordance with UL 142, NFPA 30 & 30A, and API 650 and in accordance with all applicable local, state, and federal laws. In normal operation, dust and debris can accumulate in vent openings and block air passages. Certain atmospheric conditions such as a sudden drop in temperature, below freezing temperatures, and freezing rain can cause moisture to enter the vent and freeze which can restrict internal movement of vent mechanisms and block air passages. All storage tank vent air passages must be completely free of restriction and all vent mechanisms must have free movement in order to insure proper operation. Any restriction of airflow can cause excessive pressure or vacuum to build up in the storage tank, which can result in structural damage to the tank, fuel spillage, property damage, fire, injury, and death. Monthly inspection, and immediate inspection during freezing conditions, by someone familiar with the proper operation of storage tank vents, is required to insure venting devices are functioning properly before filling or unloading a tank.

Item numbers on next page...

Model 244 Emergency Vents | 6-inch *(continued)*

Item Number	A	B	C	D	E	F	G	Overall Diameter	Height	Weight	Screen
244O--0200 AV	6”	299,684		8	I	A	AL	11”	3.9”	20.0	
EVR 244O--0200AVEVR	6”	299,684		8	I	B	AL	11”	3.9”	20.0	
244O--0400 AV	6”	299,684		16	I	A	AL	11”	4.9”	36.0	
EVR 244O--0400AVEVR	6”	299,684		16	I	B	AL	11”	4.9”	36.0	
244OB-0200 AV	6”	299,684	B	8	I	A	AL	11”	3.9”	20.0	
244OS-0200 AV	6”	250,236		8	I	A	AL	11”	3.9”	19.0	S
EVR 244OS-0200AVEVR	6”	250,236		8	I	B	AL	11”	3.9”	20.0	S
244OS-0400 AV	6”	250,236		16	I	A	AL	11”	4.9”	36.0	S
EVR 244OS-0400AVEVR	6”	250,236		16	I	B	AL	11”	4.9”	36.0	S
244OSBSP0200 AV	6”	250,236	B	8	I	A	AL	11”	3.9”	20.0	S
244OF-0050 AV †	6”	299,684	F	8	I	A	AL	11”	3.2”	22.0	
EVR 244OF-0050AVEVR	6”	299,684	F	8	I	A	AL	11”	3.2”	22.0	
244OF-0075 AV †	6”	299,684	F	16	I	A	AL	11”	4.2”	38.0	
EVR 244OF-0075AVEVR	6”	299,684	F	16	I	B	AL	11”	4.2”	38.0	
244OFS0050 AV	6”	250,236	F	8	I	A	AL	11”	3.2”	22.0	S
244OFS0075AV	6”	250,236	F	16	I	A	AL	11”	4.2”	38.0	S
244OM-0200 AV	6”	299,684	M	8	I	A	AL	11”	5.9”	21.0	
EVR 244OM-0200AVEVR	6”	299,684	M	8	I	B	AL	11”	5.9”	21.0	
244OM-0400 AV	6”	299,684	M	16	I	A	AL	11”	6.9”	37.0	
EVR 244OM-0400AVEVR	6”	299,684	M	16	I	B	AL	11”	6.9”	37.0	
244OMBS0400 AV	6”	250,236	M	16	I	A	AL	11”	6.9”	37.0	S
244OMBSP0200 AV	6’	299,684	MB	8	I	A	AL	11”	5.9”	21.0	
244OMBSP0400 AV	6”	299,684	MB	16	I	A	AL	11”	6.9”	37.0	
244OMS0200 AV	6”	250,236	M	8	I	A	AL	11”	5.9”	21.0	S
EVR 244OMS0200AVEVR	6”	250,236	M	8	I	B	AL	11”	5.9”	21.0	S
244OMS0400 AV	6”	250,236	M	16	I	A	AL	11”	6.9”	37.0	S
EVR 244OMS0400AVEVR	6”	250,236	M	16	I	B	AL	11”	6.9”	37.0	S
244OMSB0200 AV	6”	250,236	MB	8	I	A	AL	11”	5.9”	21.0	S
Flange = 11” OD ; eight (8) .88” Diameter holes on 9.5” diameter B.C.											

† Indicates model is available in a kit.

SPECIFICATION OPTIONS:

A—Size: (inches)
B—Venting capacity / SCFH at 2.5 P.S.I.
C—Mounting connection: Female N.P.T. (BLANK); Male N.P.T.(M); Flanged (F); BSP (B)
D—Pressure settings: 8 or 16 oz/in^2. Pressure required to open vent
E—Cover: cast iron powder coated (I)
F—Seat material: O-ring Viton A (A) or Viton B (B)
G—Body material: Aluminum (AL)
Diameter—Dimension across vent (inches)
Height—Dimension from base to top when closed (inches)
Weight—Shipping weight (lbs)
Screen (3 mesh stainless steel)—Yes (S), No (blank)

Bolt—Zinc plated steel

Size	Item Number	Flanged Kits	Weight (lbs)
6"	244OF-06080 AK	Includes 244OF-0050 AV vent, flange adaptor, gasket, and nuts/bolts	N/A
	244OF-06160 AK	Includes 244OF-0075 AV vent, flange adaptor, gasket, and nuts/bolts	N/A

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www.morbros.com

ROCHESTER GAUGES, LLC
ISO 9001:2015 REGISTERED

6500 Series

Magnetic Liquid-Level Gauge

Application

The 6500 Series Senior gauges are designed for use in low pressure tanks 0-25 psig [0-1,7Bar].

Used in many applications such as construction equipment, stationary generators, boats, farm equipment and home heating.

Gauge materials are intended for middle distillates such as diesel and are not intended for use in fuels containing ethanol. These gauges may be sized to fit stationary fuel tanks up to eight feet deep.

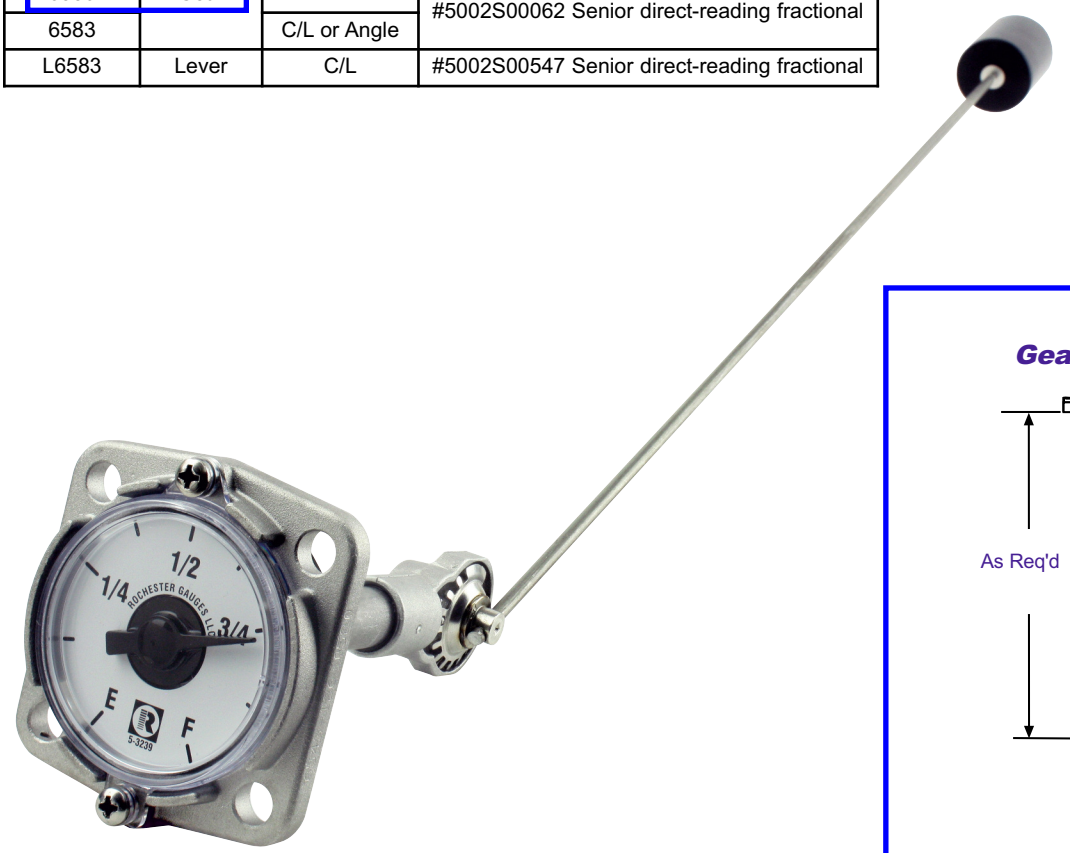
Rochester gauge dials are magnetically driven. Fuel vapor cannot reach inside of the gauge lens and attack the UV rated lens material. Rochester gauges may be easily converted for remote output by simply installing the R3D replacement dial and plug-in Hall Effect sender module.

General Information & Features

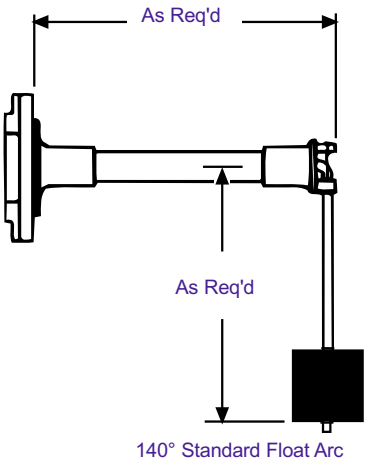
The 6500 Series Senior gauges are available in gear-action models for top, centerline or angle mounting. In lever-action models centerline mounting is only available.

The standard float is nitrile rubber. Aluminum or stainless steel floats are available at extra cost. The gauge is mounted to a mating Senior flange 2 ½" bolt circle [63,5mm] using four ¼"-28 x 9⁄16" long bolts. The gasket is Buna-N.

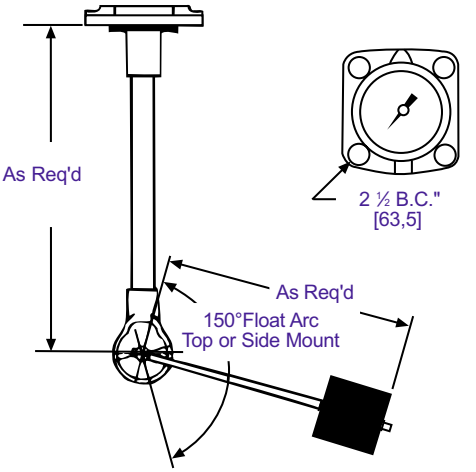
Model #	Action	Mounting	Dial, Sender or Switch Data
6540	Gear	Top	Senior TwinSite® Sender in choice of 0-30, 0-90, or 240-30 Ohm ranges. #5002S00062 direct-reading dials may also be used.
6543		C/L or Angle	
L6543	Lever	C/L	
6560		Top	#5025S00570 Senior side-reading fractional
6580	Gear		#5002S00062 Senior direct-reading fractional
6583		C/L or Angle	
L6583	Lever	C/L	#5002S00547 Senior direct-reading fractional



Lever Action Gauge

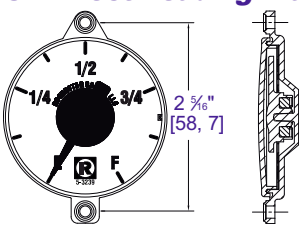


Gear Action Gauge

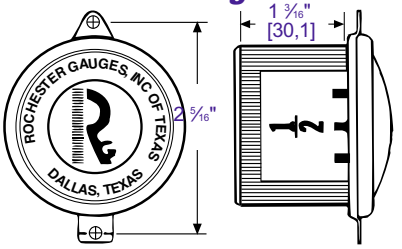


See reverse side for dimensional data, materials of construction, performance, and advice on how to order.

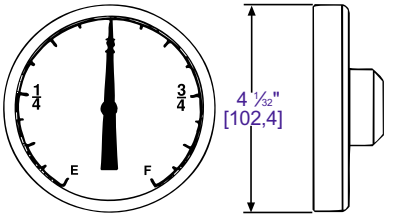
5AWLS03239 or # 5AWMS03239
Sr. Direct-Reading Dial



5025S00570
Sr. Side-Reading Dial

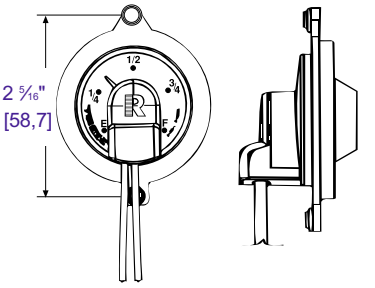


5013S00456
4" Dial



Note: This dial is used in conjunction with 93-2 mounting bracket and 39-2 bezel.

Sr. Twinsite® Sender



General Specifications*

Accuracy

Accuracy depends upon proper gauge sizing. Senior dials ±6%, TwinSite® dials ±10%. Accuracy may be less depending upon tank shape. Accuracy may be less near full and empty. Accuracy may be less if tank is not level. All accuracy estimates are expressed as a percent of full scale.

CAUTION: This gauge is not a substitute for an automatic over-fill prevention device, which may be required for filling. This gauge is not be used as an unattended means of determining tank overfilling. This document does not provide instructions for tank filling. Periodic operability checks may be required which are necessary to detect gauge malfunctions and/or inaccurate gauge readings. Gauge accuracy depends upon proper gauge sizing and installation. Release of tank contents as well as damage and safety hazard may result if tank is overfilled. Fuel exhaustion may occur if tank contents are less than indicated.

Temperature Range

-40°F to +158°F, -40°C to 70°C.

Humidity

Paint exposed portions of gauge, less dial, for marine applications.

Shock & Vibration

Suitable for mobile applications.

Power

0.5 watts maximum for TwinSite® versions.

Tank Pressure

Up to 25 psig [1,7Bar]

Approvals

These direct indicating gauges 6560 and 6580 are UL listed for flammable liquids. Some models UL recognized for marine service.

Note: For installation instructions see MS-501/502 (Non-Pressurized Fuel Tanks).

Materials of Construction*

Head

Die cast aluminum

Centershaft, Support Tube & Float Rod

Tempered aluminum

Gears, Cross Stud & Bearings

Stainless steel

Drive Magnet

Alnico

Gear Housing

Acetal plastic or aluminum

Float

Nitrile rubber

Gasket

Buna–N, 0015-00004 or 0015-00079

Direct Reading Dial

Polycarbonate or polyamide ultrasonically sealed.

Side Reading Dial

Aluminum with polycarbonate crystal, hermetically sealed.

TwinSite® Sender

Polyamide.

Mounting Bolts

Zinc-plated steel ¼"-28 x 9/16" long.

When ordering, specify:

1. Gauge model number.
2. Tank diameter and riser height.
3. Mounting location.
4. Ohm range on TwinSite® versions.
5. Preferred switch on switch gauges, if other than standard.
6. Any listed options or preferences.

NOTE: Materials and specifications are subject to change without notice. Pressure ratings subject to change due to temperature and other environmental considerations.

WARNING:
Acrylonitrile, BPA
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

02/13/2020

ROCHESTER GAUGES, LLC

The Measure of Excellence

11616 Harry Hines Blvd. • P.O. Box 29242 • Dallas, TX 75229 • (972) 241-2161 • *FAX* (972) 620-3374
Website http://www.rochestergauges.com • ***E-mail*** info@rochestergauges.com

Model 518 Series 7½ Gallon AST Spill Container

SPECIFICATION SHEET

Application

Tank top spill containers are designed to contain small spills that occur at the fill point on aboveground storage tanks.

518 (4")

Features and Details

- 7½ gallon (28.39 liters) capacity
- Hinged cover lockable with a padlock
- Space saving offset design
- **518** has female threaded offset connection
- **518CC** has female threaded centered connection
- **518M** has male threaded offset connection

Materials of Construction

- Body... 12 gauge spun steel, powder coated white
- Cover... 14 gauge steel, powder coated white
- Drain valve... brass
- Drain o-ring... Viton®

Code Compliance

- Florida DEP EQ 345, meets the new and revised requirements for CAN-ULC-S663-11 (effective September 25, 2015)

Item Number	A	B	C	D	E	F	G	H	I	J
518---0100 AC	7½	F	O	4″	Y	N	15⅞″	19 19/64″	26.0	15 3/32″
518CC-0100 AC	7½	F	C	4″	Y	N	15⅞″	19 19/64″	26.0	15 3/32″
518M--0100 AC	7½	M	O	4″	Y	N	17 13/64″	19 19/64″	26.0	15 3/32″
518M--0200 AC	7½	M	O	2″	Y	N	16 13/32″	19 19/64″	20.0	15 3/32″

SPECIFICATION OPTIONS:

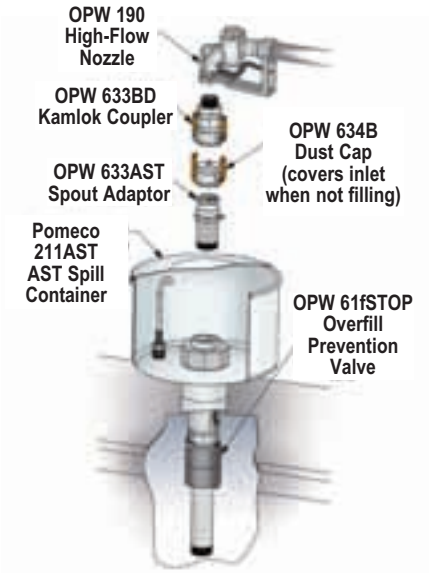
A—Capacity: Gallons
B—Mounting connection: Male (M), Female (F)
C—Mounting location: Center (C)
D—Size: NPT threads
E—Drain: Yes/No
F—Screen: Yes/No
G—Height: (inches)
H—Width: (inches)
I—Shipping weight: (lbs)
J—Body diameter (inches)

MORRISON BROS. CO.

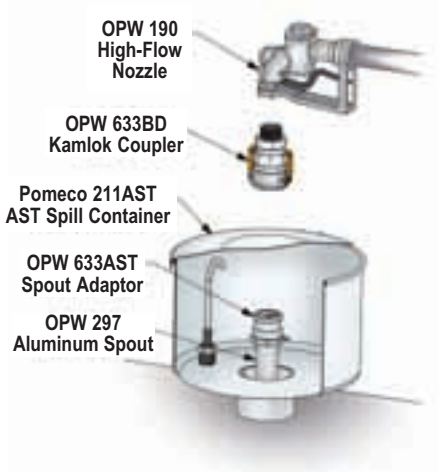
570 E. 7th Street, P.O. Box 238 | Dubuque, IA 52004-0238
t. 563.583.5701 | 800.553.4840 | f. 563.583.5028
www.morbros.com

Fuel Delivery Couplers And Accessories

Fuel Delivery Couplers and Accessories are designed to connect fuel delivery transport truck hoses or nozzles to the fill pipe of an aboveground storage tank.



Typical AST Filling Application



Typical AST Filling Application

Dedicated Gauging Port

CARB EVR CERTIFIED

For use with 633AST-0XXX Female NPT Kamlok Gauging Port.

Ordering Specifications

CARB APPROVED AST EQUIPMENT	
Product #	Description
204247	Dedicated Gauging Port

Kamlok® Couplers

The 633BD has a Kamlok® Coupler on one end and external threads on the other end. This coupler should be threaded into an OPW 190 Nozzle and then coupled to the 61ƒSTOP for filling ASTs.

Ordering Specifications

	Elbow/Thread	
Product #	in.	mm
633BD-1261	2 x 1½	51 x 38
633B-0150	2 x 2	51 x 51

633B Coupler

Tank Inlet Spout Adaptors With Crossbar

The 633AST Series Adaptors, with a boss installed across the inlet, are designed to prohibit open-fills. Adaptors are supplied with the 61ƒSTOP to provide for tight-fills.

Ordering Specifications

	Elbow/Thread	
Product #	in.	mm
633AST-2061	2 x 2	51 x 51
633AST-3061	3 x 3	77 x 77

633AST Spout Adaptor

Tank Inlet Spout Adaptors

The 633AST is an adaptor that can be threaded onto a 297 Spout. The spout and adaptor assembly may then be attached to a 190 Nozzle equipped with a 633BD Kamlok® coupler for open filling of ASTs when a 61ƒSTOP is not installed.

Ordering Specifications

CARB APPROVED AST EQUIPMENT		
	Elbow/Thread	
Product #	in.	mm
633AST-0150	1.5 x 1.5	38 x 38
633AST-0200	2 x 2	51 x 51
633AST-0250	2.5 x 2.5	64 x 64
633AST-0300	3 x 3	76 x 76
633AST-0400	4 x 4	102 x 102

366FAST-XXXX, Male Thread Equivelent of Adaptors above

633AST Spout Adaptor

Dust Caps

The 634B Dust Caps are installed on 633AST Adaptors when not in use. The 634B is designed to deter dust, debris and water from entering the tank.

Ordering Specifications

CARB APPROVED AST EQUIPMENT			
Product #	Description	in.	mm
634B-0140	For 633AST-0150	1-1/2	38
634B-0150	Caps 633AST-2061 or 633AST-0200 Adaptor	2	51
634B-0160	Caps 1611AN-0200 or 633AST-0250 or 1611AN-2040 or 1612AN-2040 Adaptors	2-1/2	64
634B-0170	Caps 61ƒSTOP (633AST-3061) or 366AST-0300 or 1611AN-3060 or 1612AN-3060 Adaptors	3	77
634B-0180	1611AN-0300 Kamvalok® Adaptor or 633AST-0400 Adaptor	4	103

CARB EVR CERTIFIED

Dust Cap

For more information contact OPW Customer Service at 1-800-422-2525; International call 1-513-870-3315.

Model 9095AA 2” Overfill Prevention Valve

SPECIFICATION SHEET

Application

The 9095AA 2” series overfill prevention valve is designed to prevent overfilling storage tanks by providing a positive shut-off during a pressurized fill.

Features

- Installs directly onto a 4” riser or top mounted spill container
- Minimum shut-off height is 2” from the tank top
- 2.35” of float height adjustment
- Drop tube adaptor accepts 2” drop fill tubes (Morrison 419)
- Full flow to shut-off point, cushioned closure eliminates shock
- Integral pressure relief
- Optional test mechanism

Materials of Construction

- Direct fill adaptor...passivated aluminum
- Remote adaptor...ductile iron, powder coated
- Shaft, linkage and hardware...stainless steel
- Lower pipe nipple...e-coated steel
- Drop tube adaptor...passivated aluminum
- Body...passivated aluminum

Operational Criteria

- Minimum 5 PSI flow requirements
- Maximum operating pressure is 100 PSI
- Maximum viscosity of 300 centistokes
- A tight fill connection is required for the valve to operate
- The estimated flow rate is 230 GPM at 10 PSI pressure drop (See flow curve)

Code Compliance

ULC-S661-10 listed, NFPA 30, 30A, UFC, IFC, PEI /RP200, PEI/RP 600, Florida DEP EQ-851, and California EVR models available

9095AA0200
(2”)

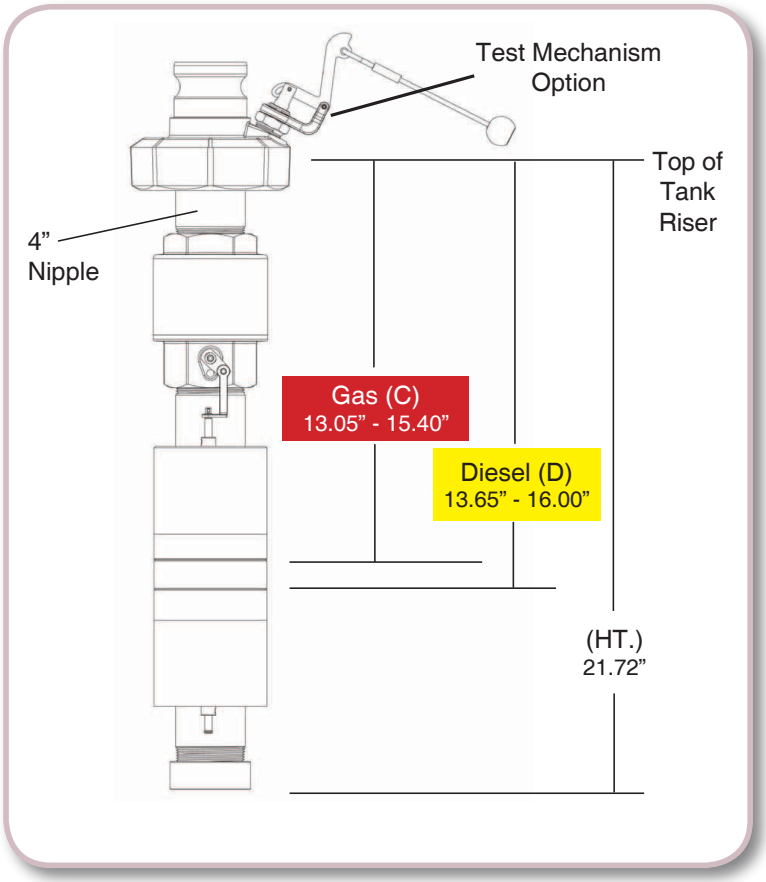
NOTE
9095A models have been replaced with 9095AA models.

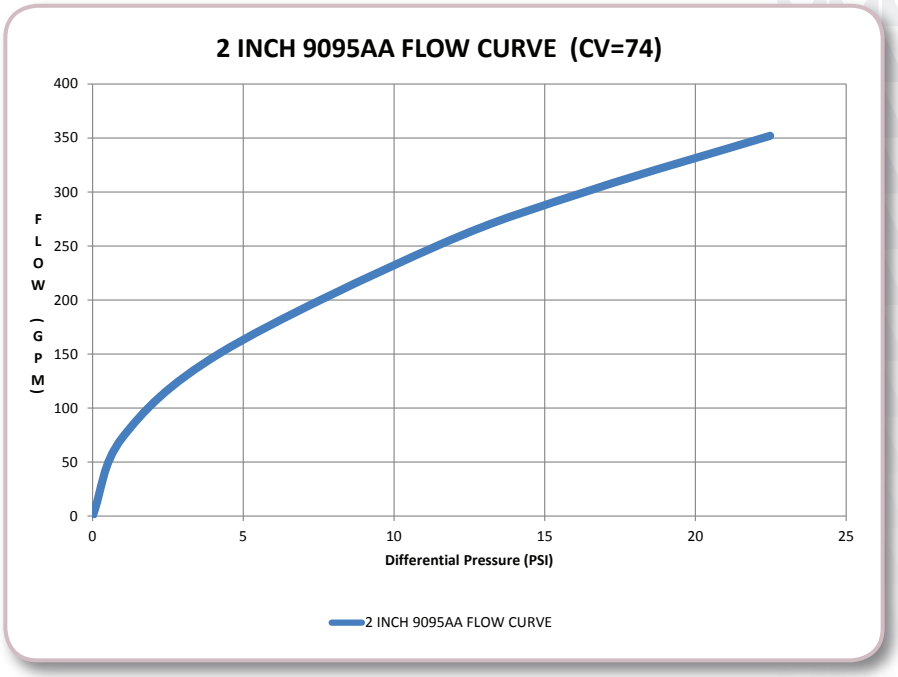
Item Number	Size	Description	Tank Opening	Weight (lbs)
9095AA0200 AV	2”	Valve with 2” male quick disconnect x 4” female threads	4”	14.10
9095AA4000 AV	2”	Valve with 3” male quick disconnect x 4” female threads	4”	16.80
9095AA3200AVEVR	2”	Valve with 2” female threads x 4” female threads	4”	14.10
9095AA4200AVEVR	2”	Valve with 3” female threads x 4” female threads	4”	21.25
9095AA5200AVEVR	2”	Valve with 2” dry disconnect x 4” female threads	4”	21.25
9095AA9200AVEVR	2”	Valve less adaptor	4”	14.10
9095ATM0100 AM	2" & 3"	Mechanical test mechanism kit		.50
9095A-KIT91 AV	2”	Includes 9095AA0200 AV, 2″ x 6’ 419 drop tube, and 305C cap		
9095ATKIT91 AV	2”	Same as 9095A-KIT91 AV, with test mechanism		

EVR

Diagram and flow curve on next page.

Model 9095AA Top-Fill Overfill Prevention Valve *(continued)*





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ASHCROFT®
Trust the shield.®

1490 Low Pressure Diaphragm Gauge

- ***Glass-filled polysulfone case material, won't rust or dent***
- ***Beryllium copper diaphragm***
- ***Brass socket***
- ***Wetted materials of beryllium copper, brass, polysulfone and RTV silicone***

The Ashcroft® Type 1490 low pressure diaphragm gauge is designed to measure pressure from 10 in. H_2O to 15 psi, both positive and negative pressures. This gauge uses a very sensitive diaphragm capsule to measure low pressure and vacuum. The gauge is specifically designed for use whenever the pressure medium is a gas that is not corrosive to beryllium copper, brass, polysulfone and RTV silicone. The polysulfone case is suitable for intermittent or continuous service on natural gas provided a .013 throttle plug is installed in the socket. Typical applications are, but not limited to, vacuum pumps, gas leak detectors, air compressors, air filters, gas burners, gas measurement, vacuum ovens, suction regulators and respirators.

PRODUCT SPECIFICATIONS

Model Number:	1490
Accuracy:	±2-1-2% full scale (Grade A, ASME B40.100)
Ranges:	10 in. H_2O through 15 psi including vac. and compound
Dial Size:	2½″ and 3½″ diameter
Case Material:	Black, glass filled polysulfone
Socket Material:	Brass
Movement:	Brass
Sensing Element:	Beryllium copper diaphragm
Wetted Material:	Beryllium copper, brass, polysulfone and RTV silicone
Window:	Polycarbonate, quarter turn bayonet style mounting
Dial:	Aluminum, white background, black figures and intervals.
Pointer:	Black, aluminum, fixed
Connection Size:	⅛ NPT (01) ¼ NPT (02) ⅛″ tubing hose barb (HD) 3⁄16″ tubing hose barb (HE) ¼″ tubing hose barb (HF) ¼″ O.D. polytube hose barb (HG) 10-32 2B female thread (HH)
Connection Location:	Lower (L) Center Back (B) Top (T) 3 o'clock (D) 9 o'clock (E)
Operating Temperature:	–40 to 180°F
Proof Pressure:	150% of range
Burst Pressure:	Up to 5 psi = 50 psi Greater than 5 psi = 100 psi

OPTIONAL FEATURES

1% Accuracy:	XAN
Dial Marking:	XDA
Stainless Steel Tag:	XNH
Paper Tag:	XNN
Throttle Plug:(1)(3)	XTU
Throttle Screw:(4)	XTS
U-clamp:(2)	XUC
FlutterGuard™:	XZY

(1) A throttle plug must be installed in the socket whenever the gauge is used for intermittent or continuous service on natural gas.
(2) U-clamp furnished when hose barb or female thread is specified.
(3) Throttle plug not available with hose barb or female thread connections.
(4) .020 throttle screw available with HH connection only.

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1490 Low Pressure Diaphragm Gauge

STANDARD RANGES

Pressure	Figure Intervals	Minor Graduation
0/10 in.H_2O	1	0.1
0/15 in.H_2O	5	0.2
0/30 in.H_2O	5	0.5
0/60 in.H_2O	10	1
0/100 in.H_2O	10	1
0/160 in.H_2O	20	2
0/200 in.H_2O	20	2
0/300 in.H_2O	50	5
0/10 oz./in.^{2}	1	0.1
0/15 oz./in.^{2}	5	0.2
0/30 oz./in.^{2}	5	0.5
0/60 oz./in.^{2}	10	1
0/100 oz./in.^{2}	10	1
0/160 oz./in.^{2}	20	2
0/250 oz./in.^{2}	50	5
0/3 psi	0.5	0.05
0/5 psi	1	0.1
0/10 psi	1	0.1
0/15 psi	5	0.2

STANDARD RANGES (Cont.)

Vacuum	Figure Intervals	Minor Graduation
15/0 in.H_2O	5	0.2
30/0 in.H_2O	5	0.5
60/0 in.H_2O	10	1
100/0 in.H_2O	10	1
200/0 in.H_2O	20	2
15/0 oz./in.^{2}	5	0.2
30/0 oz./in.^{2}	5	0.5
60/0 oz./in.^{2}	10	1
100/0 oz./in.^{2}	10	1
Compound		
–30/30 in.H_2O	10	1
–30/30 in.oz./in.^{2}	10	1
–10/10 in.H_2O	2	0.2

Dual Scale

Range		Graduations			
		Inner Scale		Outer Scale	
Inner Scale	Outer Scale	Figure Intervals	Minor Grad.	Figure Intervals	Minor Grad.
0/9 oz./in.^{2}	0/15 in.H_2O	1	0.2	5	0.2
0/20 oz./in.^{2}	0/35 in.H_2O	5	0.5	5	0.5
0/35 oz./in.^{2}	0/60 in.H_2O	5	0.5	10	1
0/60oz./in.^{2}	0/100 in.H_2O	10	1	10	1

Other ranges available on request. Consult factory.

STANDARD METRIC RANGES

Pressure	Figure Intervals	Minor Graduation
0/60 cm. H_2O	10	1
0/2.5 kPa	0.5	0.05
0/4 kPa	1	0.1
0/10 kPa	1	0.1
0/16 kPa	2	0.2
0/25 kPa	5	0.5
0/40 kPa	10	1
0/100 kPa	10	1
Vacuum		
2.5/0 kPa	0.5	0.05
4/0 kPa	1	0.1
10/0 kPa	1	0.1
16/0 kPa	2	0.2
25/0 kPa	5	0.5
40/0 kPa	10	1
100/0 kPa	10	1
Compound		
–10/60 cm H_2O	10	1
–10/80 cm H_2O	10	1
–20/40 cm H_2O	10	1
–10/100 cm H_2O	10	1
–10/120 cm H_2O	20	2

SELECTION TABLE

Dial Size		Type		Wetted Material		Conn. Size & Type		Connection Location		Ranges		Optional Features	
Code	Desc.	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
25	2½″	1490	Low Pressure Diaphragm Gauge	A	Beryllium Copper	01	⅛ NPT	L	Lower	10 IW	0 to 10 in.H_2O	XAN	1% Opt. Accuracy
35	3½				Brass	02	¼ NPT	B	Center Back			XDA	Dial Marking
					Polysulfone	HD	⅛″ I.D.Tubing Hose Barb[2,3]	T	Top		See Chart for	XNH	Stain. Steel Tag
					RTV Silicone	HE	3/16″ I.D.Tubing Hose Barb[2,3]	D	3 O'Clock		Entire List of	XNN	Paper Tag
						HF	¼″ I.D.Tubing Hose Barb[2,3]	E	9 O'Clock		Ranges	XTU[1,3]	Throttle Plug
						HG	¼″ O.D. Polytube Hose Barb[2,3]					XTS[4]	Throttle Screw
						HH	10-32-2B Female Thread[2,3,5]					XUC[2]	U-clamp
												XZY	FlutterGuard™

(1) A throttle plug must be installed in the socket whenever the gauge is used for intermittent or continuous service on natural gas.
(2) U-clamp furnished when hose barb or female thread is specified.
(3) Throttle plug not available with hose barb or female thread connections.
(4) .020 throttle screw available with HH connection only.

HOW TO ORDER: 25 1490 A 02L XXX 10 IW

1. Dial size – 2½ (25), 3½ (35)
2. Case type
3. Wetted material
4. Connection size – ¼ (02), ⅛ (01)
5. Connection location – Lower (L), Back (B)
6. Optional features
7. Standard pressure range – 10 in.H_2O

ISO 9001
REGISTERED FIRM

BULLETIN DG-1490

Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA
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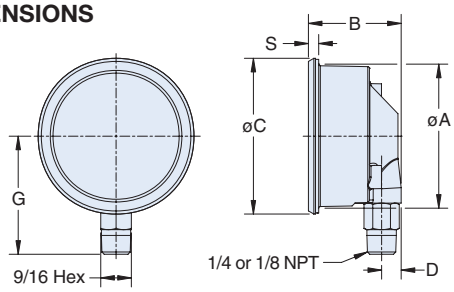
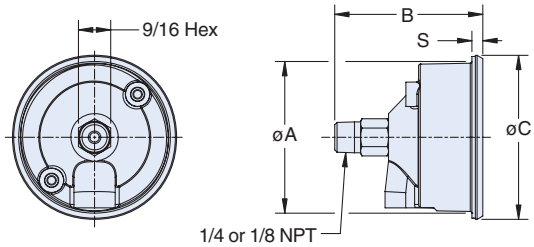
1490 Low Pressure Diaphragm Gauge

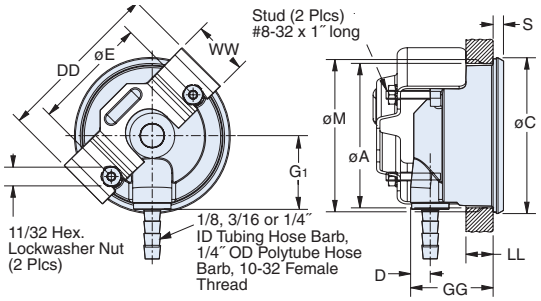
DIMENSIONS



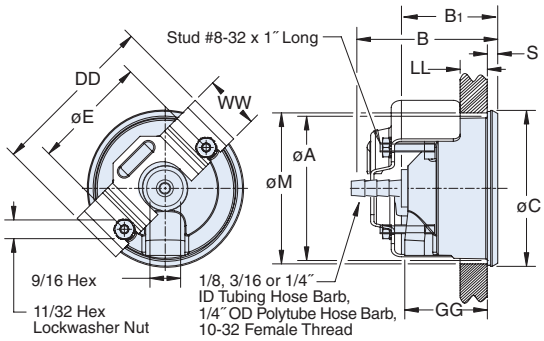
Size	øA	B	øC	D	G	S
25	2 19/32 (66)	1 23/32 (44)	2 7/8 (73)	3/8 (10)	2 3/16 (55)	13/64 (5)
35	3 21/32 (93)	1 11/16 (43)	3 31/32 (101)	3/8 (10)	2 23/32 (69)	13/64 (5)



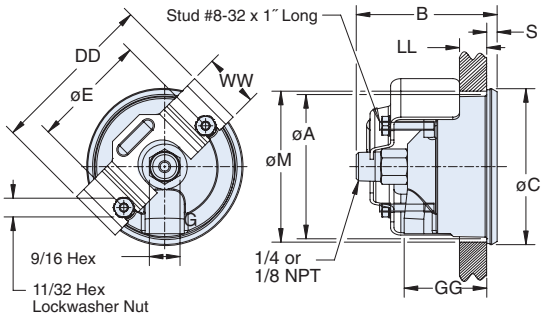
Size	øA	B	øC	S
25	2 19/32 (66)	2 19/32 (66)	2 7/8 (73)	13/64 (5)
35	3 21/32 (93)	2 9/16 (65)	3 31/32 (101)	13/64 (5)



Size	øA	øC	D	øE	G				G1	øM	S	DD	GG	LL Max.	WW
					1/8 ID Tubing	3/16 ID Tubing	1/4 ID Tubing	1/4 OD Tubing	10-32 Female						
25	2 19/32 (66)	2 7/8 (73)	3/8 (10)	2 1/8 (54)	1 3/4 (44)	2 1/8 (54)	2 9/32 (54)	1 3/4 (44)	1 11/32 (34)	2 21/32 (67)	13/64 (5)	3 1/16 (78)	1 19/32 (40)	1/2 (13)	1 (25)
35	3 21/32 (93)	3 31/32 (101)	3/8 (10)	3 3/16 (67)	2 5/16 (59)	2 21/32 (81)	2 13/16 (54)	2 5/16 (59)	1 31/32 (50)	3 3/4 (95)	13/64 (5)	4 1/8 (105)	1 17/32 (39)	1/2 (13)	1 (25)



Size	øA	B				B1	øC	øE	øM	S	DD	GG	LL Max.	WW
		1/8 ID Tubing	3/16 ID Tubing	1/4 ID Tubing	1/4 OD Tubing	10-32 Female								
25	2 19/32 (66)	2 3/16 (55)	2 17/32 (64)	2 11/16 (68)	2 3/16 (55)	1 25/32 (45)	2 7/8 (73)	2 1/8 (54)	2 21/32 (67)	13/64 (5)	3 1/16 (78)	1 19/32 (40)	1/2 (13)	1 (25)
35	3 21/32 (93)	2 1/8 (54)	2 1/2 (63)	2 21/32 (67)	2 1/8 (54)	1 23/32 (44)	3 31/32 (101)	3 3/16 (81)	3 3/4 (95)	13/64 (5)	4 1/8 (105)	1 17/32 (39)	1/2 (13)	1 (25)



U-clamp Option

Size	øA	B	øC	øE	øM	S	DD	GG	LL MAX	WW
25	2 19/32 (66)	2 19/32 (66)	2 7/8 (73)	2 1/8 (54)	2 21/32 (67)	13/64 (5)	3 1/16 (78)	1 19/32 (40)	1/2 (13)	1 (25)
35	3 21/32 (93)	2 9/16 (65)	3 31/32 (101)	3 3/16 (81)	3 3/4 (95)	13/64 (5)	4 1/8 (105)	1 17/32 (39)	1/2 (13)	1 (25)

Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA
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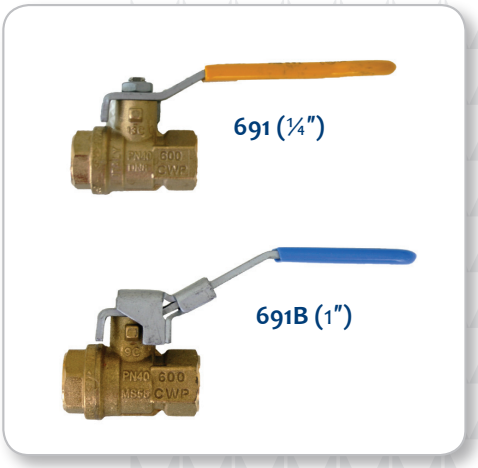
Model 691 & 691B Full Port Brass Ball Valve

SPECIFICATION SHEET

Ball valves are used throughout fuel piping systems where a shut-off is required or desired.



Features

- Quarter turn operation
- Full port for maximum flow and minimum pressure drop
- Can be operated in partial open position for flow control
- Double seal allows the valve to be operated in both directions
- Blowout proof stem
- 600 PSIG non-shock cold working pressure rating for ¼″ to 2″ size
- 450 PSIG non-shock cold working pressure rating for 2½″ to 4″ size
- Can be used for air service
- **691B** is lockable with a padlock

Construction Details

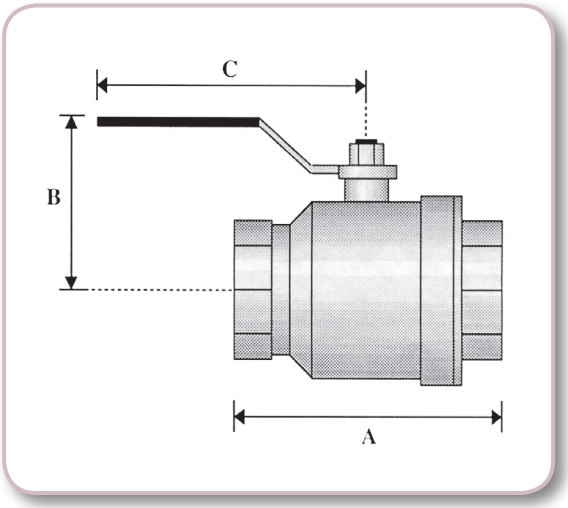
- Forged brass body
- Hard chrome plated ball
- PTFE seal

Certifications & Listings

UL 842 listed for flammable liquids,
UL 125 listed for LP gas shut-off,
CSA listed (File No. 112439, Model S.95),
ULC listed (ULC/ORD-C125-1992, ULC/ORD-C842-M1984 and ULC/ORD-C258-03)

I.D. Number	Size	A	B	C	Port Size	Weight (lbs)
691---0100 1V	¼″	1.771	1.496	3.228	0.314	0.30
691---0200 1V	⅜″	1.771	1.496	3.228	0.393	0.30
691---0300 1V	½″	2.32	1.69	3.94	0.59	0.50
691---0400 1V	¾″	2.519	1.968	4.724	0.787	0.80
691---0500 1V	1″	3.188	2.125	4.724	0.984	1.17
691---0600 1V	1¼″	3.661	2.874	6.22	1.259	1.93
691---0700 1V	1½″	4.015	3.11	6.22	1.574	2.40
691---0800 1V	2″	4.763	3.385	6.22	1.968	4.02
691---0900 1V	2½″	6.141	5.196	10.04	2.559	10.0
691---1000 1V	3″	6.968	5.551	10.04	3.149	13.65
691---1100 1V	4″	8.504	6.062	10.04	3.937	22.0
691B--0100 1V	¼″	1.771	1.496	3.228	0.314	0.30
691B--0200 1V	⅜″	1.771	1.496	3.228	0.393	0.30
691B--0300 1V	½″	2.32	1.69	3.94	0.59	0.50
691B--0400 1V	¾″	2.519	1.968	4.724	0.787	0.80
691B--0500 1V	1″	3.188	2.125	4.724	0.984	1.17
691B--0600 1V	1¼″	3.661	2.874	6.22	1.259	1.93
691B--0700 1V	1½″	4.015	3.11	6.22	1.574	2.40
691B--0800 1V	2″	4.763	3.385	6.22	1.968	4.02
691B--0900 1V	2½″	6.141	5.196	10.04	2.559	10.0
691B--1000 1V	3″	6.968	5.551	10.04	3.149	13.65
691B--1100 1V	4″	8.504	6.062	10.04	3.937	22.0

NOTE: All dimensions are in inches.



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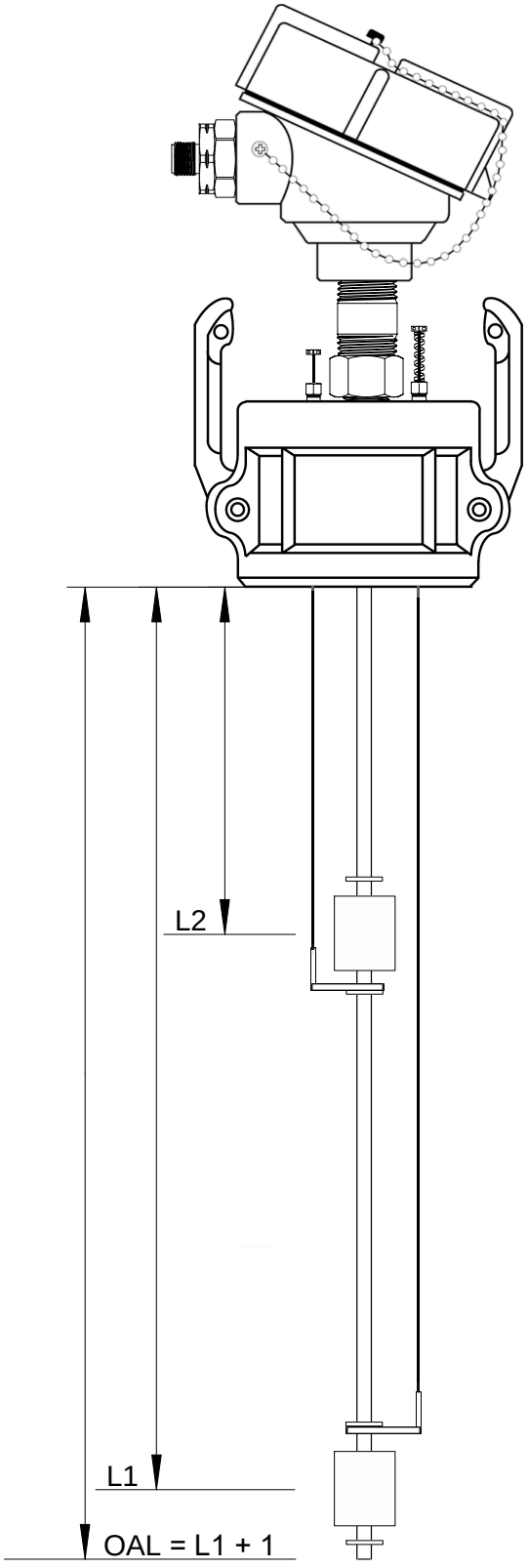


PHOENIX PRODUCTS DUAL LIFTER TEMPLATE

DESCRIPTION: BRASS STEM, 2" ALUM CAMLOCK, TWO LEVEL, B1000.6 FLOAT, CLIPS, 50W SPST, 4-PIN M12 CONNECTOR

MOUNTING FITTING: 2" Aluminum Camlock-DC

STEM: 5/16" Brass

FITTINGS REQUIRED: 1/2M x 1/4M Brass Reducing Nipple, 1/2M x 2" Brass Nipple

ACTUATION:

Level	Actuation	Operation	Float	SG	Stops
L2	90%	NO	Buna 1000	.60	Brass Clips
L1	25%	NC	Buna 1000	.60	Brass Clips
OAL					

CONNECTOR: Surface Mount - 4-Pin M12 Male Single Keyway

WIRING: Common - Pin 4 - Black

Level	Type	Reed Switch	Wire Color(s)
L2	SPST	50W - 27-33 AT	Pin 2 - White
L1	SPST	50W - 27-33 AT	Pin 1 - Brown

HOUSING: NEMA 4X XP

NAME PLATE: Phoenix Products

MATCHING CORDSET: 4-Pin female single keyway - 2M (include with sensor)

PROJECT #: __24-406275_____

a) **Inner tank height:**___12_____"

b) **Riser height:**__0.25_" (Weld flange = 1"/Riser height can't be 0")

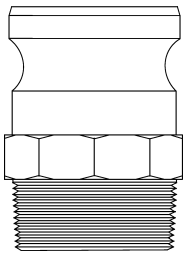
c) **L2 Alarm set point:**__90____%

d) **L1 Alarm set point:**__25____%

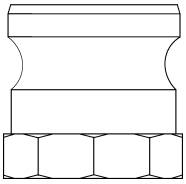
e) **Check one:**

___X___ 2" Male threaded "Type F" camlock adapter

_____ 2" Female threaded "Type A" camlock adapter



Male Threaded "Type F" Camlock Adapter



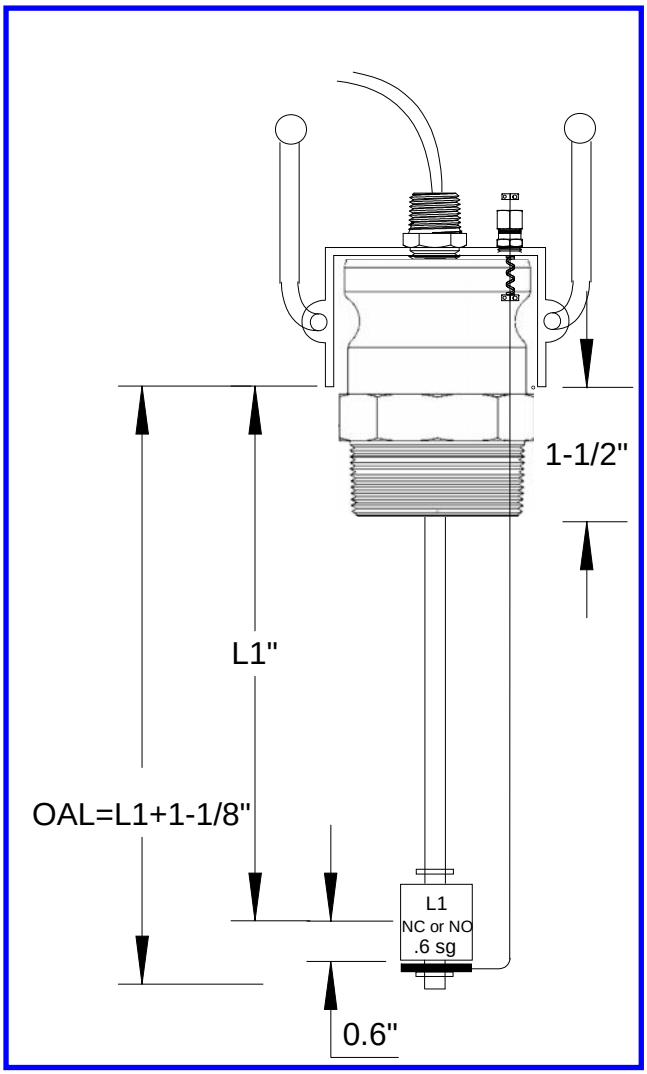
Female Threaded "Type A" Camlock Adapter

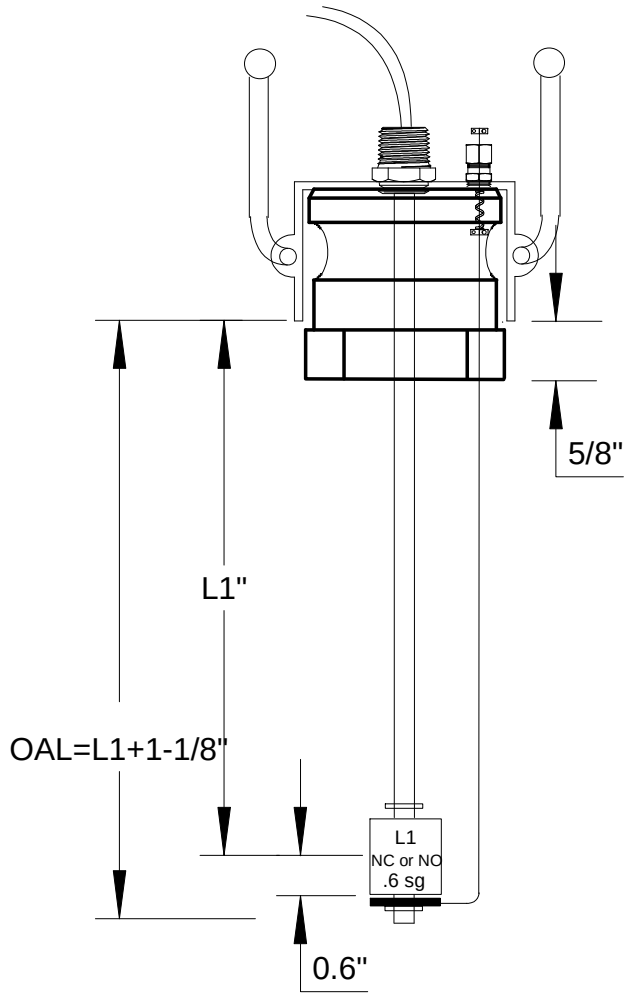
FDEP EQ# 817

Drawing not to scale

FPI SENSORS INTERNATIONAL
A HIGHER LEVEL OF SATISFACTION

Rev.000 Initial Requirements 09/01/20	Date:	Part: LS1001-PHXP-
	Tolerances: Decimals: +/- .10" Fractions: +/- 1/16"	This drawing is the property of FPI Sensors. Do not distribute without permission from FPI Sensors.





FITTING: Aluminum 2" Cam & Groove Fitting

STEMS: 5/16" Dia, Brass

CONDUIT CONNECT: 1/2" Male NPT, Brass

FLOAT: Buna 1000, (1" dia. x 1" tall)

FLOAT STOPS: 5/16" Brass Retaining Rings

SWITCH SIZE: 50 Watt, SPST (265V, 1A Maximum Values)

WIRE: 22 ga, PTFE 48"

WIRING: NC or NO Red Wires

HOUSINGS: None

APPROVALS: FDEP EQ# 817

Notes:
1. Drawing is not to scale
2. Includes 2" Male Threaded "Type F" camlock adapter OR 2" Female Threaded "Type "A" camlock adapter

PROJECT #: **24-406275**

a) Inner tank height:_____12_____"

b) Riser height:__0.25_" (Weld flange = 1"/Riser height can't be 0")

c) Alarm set point:LEAK%

d) Check one:
_X_ 2" Male Threaded "Type F" camlock adapter
____ 2" Female Threaded "Type A" camlock adapter

e) e) Check one: N.O. _X__ N.C.____
*Approximate Thread Engagement of 2" NPT

FPI SENSORS INTERNATIONAL
A HIGHER LEVEL OF SATISFACTION
1-800-852-9984 F-651-681-1888 info@FPIsensors.com

Rev. 1		

DATE: 10-24-18	PART #: LS1001-PHXP-
TOLERANCES Decimals: +/- .1 Fractions: +/- 1/16	

PHOENIX PRODUCTS
JACKSONVILLE, FL

phoenix products

DRAWINGS PREPARED FOR:

HOLT CAT

CITY OF SCHERTZ LIFT STATION

GSDW-775 W/FACTORY ENCLOSED 400KW

JOB # 24-406275 DATE: 03.04.24

SITE INSTALLED ITEMS LIST

THE ITEMS LISTED BELOW ARE SITE INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION APPROVAL.

1. SUB-BASE FUEL TANK FOUNDATION CONNECTIONS
2. ELECTRICAL CONNECTIONS

DRAWING SET OUTLINE:

NOTES:

GENSET: CATERPILLAR C13 400KW
WEIGHT: 10,114 LBS. (DRY)
DIMENSIONS: 182.3"L X 64.2"W X 87.8"H
DWG NO. 6073701/5888336 ENCL.; 5888334 GENSET

1. TOTAL PACKAGE DRY WEIGHT (APPROX.):=15,994 LBS.

TANK INFORMATION

EMERGENCY VENTING CAPACITY:	170,200=6"	CFH
TANK MODEL:	GSDW-775	
TANK CAPACITY:	779.64	GALLONS
TANK WEIGHT:	5,850	LBS.
PRIMARY TANK DIMENSIONS:		
LENGTH:	224	INCHES
WIDTH:	72	INCHES
HEIGHT:	12	INCHES
SECONDARY TANK DIMENSIONS:		
LENGTH:	234	INCHES
WIDTH:	82	INCHES
HEIGHT:	14	INCHES
TANK TOP LOAD RATING	60,900	LBS

SHIPS WITH VACUUM IN INTERSTITIAL FOR ON-SITE INTEGRITY VERIFICATION

ALL FITTINGS TO BE C.S. WELD FLANGES. (UNLESS OTHERWISE NOTED)

CUSTOMER FURNISHED & PHOENIX PRODUCTS INSTALLED:

1) GENSET WITH FACTORY ENCLOSURE

REV#	DESCRIPTION	BY	DATE:
A	SUBMITTED FOR CUSTOMER APPROVAL	CLN	03.04.24

CUSTOMER/ PROJECT TYPE: GSDW-775 W/FACTORY ENCLOSED 400KW
TANK LABEL: ■ UL-142 □ UL-2085
F.M.E.P. CERTIFICATION NOS. □ EQ-013 ■ EQ-625 □ EQ-821

HOLT CAT

JOB# 24-406275

DRAWN BY:	CLN	
CHECKED BY:	EBT	
DATE:	03.04.24	
SCALE:	N.T.S.	

PHOENIX PRODUCTS
1757 MONETT STREET
JACKSONVILLE, FLORIDA 32206

CITY OF SCHERTZ LIFT STATION

Phoenix Products

C1

1 OF 4

B.O.M.

ITEM	QTY	DESCRIPTION	VENDOR	MODEL NUMBER	SKETCH NUMBER	DBS PART NUMBER	NOTE
1	1	775 GALLON SUB-BASE TANK	PHOENIX PRODUCTS	GSDW-775			
2	2	SPARE 2" ASSEMBLY	PHOENIX PRODUCTS		DW-S-2		
3	1	DW 2" F.O.S. ASSEMBLY	PHOENIX PRODUCTS		DW-FOS		SUCTION TUBE LENGTH=11"
4	1	DW 2" F.O.R. ASSEMBLY	PHOENIX PRODUCTS		DW-FOR		
5	1	GSDW PRIMARY VENT 3" ASSEMBLY	MORRISON	354-0300AV	GSDW-PV-3		RISER PIPE LENGTH=122"; VENT TO BE 12' ABOVE GRADE RISER; SHIP RISER PIPE LOOSE
6	1	DW SECONDARY EMERGENCY VENT 6" - PIPE ASSEMBLY	MORRISON	2440-0400AV	DW-EV-6P		SHIP CAP LOOSE.
7	1	6" PVC THREADED CAP (FOR SHIPPING W/ VACUUM)	PHOENIX PRODUCTS				
8	1	DW PRIMARY EMERGENCY VENT 6" - PIPE ASSEMBLY	MORRISON	2440-0400AV	DW-EV-6P		
9	3	SPARE 2" ASSEMBLY	PHOENIX PRODUCTS		DW-S-2		FOR CUSTOMER FUEL POLISHING SYSTEM OR OTHER USE
10	1	SPARE 4" ASSEMBLY	PHOENIX PRODUCTS		DW-S-4		FOR CUSTOMER FUEL POLISHING SYSTEM OR OTHER USE
11	1	DW VISUAL GAUGE ROCHESTER ASSEMBLY	ROCHESTER	6580-00150	DW-VGR		INNER TANK HEIGHT=12" RISER=.25"
12	1	7.5 GAL. SPILL BUCKET W/ FILL LIMITER ASSEMBLY	MORRISON, OPW, MORRISON	518CC-0100AC, 634B-0150, 9095AA-0200AV	DW-SB7FL-WF		
13	1	DW VACUUM GAUGE WITH WELD FLANGE ASSEMBLY	ASHCROFT, MORRISON	25-1490-A-02L-XTU-200/0IWV, 691B-0300 1V	DW-VCG-2WF		
14	1	SPARE 4" ASSEMBLY	PHOENIX PRODUCTS		DW-S-4		
15	1	DW LS1001 DUAL LEVEL SWITCH ASSEMBLY HIGH (90% SET POINT) - LOW (25% SET POINT)	FPI	LS1001-PHXP	DW-FPILL-WF		
16	1	DW LS1001 INTERSTITIAL LEAK SWITCH ASSEMBLY	FPI	LS1001-PHXP	DW-FPILK-2WF		SHIP SWITCH LOOSE
17	1	2" THREADED PVC PIPE PLUG	PHOENIX PRODDUCTS				FOR SHIPPING WITH VACUUM
18	1	38"L. X 12"W. ELECTRICAL STUB UP	PHOENIX PRODUCTS				
19	1	400KW GENERATOR	CUSTOMER FURNISHED	CAT C13 SAEA			
20	2	6"W X 182"L NEOPRENE PAD FOR ENGINE FRAME RAILS	PHOENIX PRODUCTS				INSTALL UNDER GENERATOR FRAME RAIL
21	4	D-RING LIFT LUG ASSEMBLY	PHOENIX PRODUCTS		LLD		20,000 LBS VERTICAL LIFT ONLY
22	6	6"W X 4"H X 88"L EXTERNAL TANK SUPPORT	PHOENIX PRODUCTS				
23	6	6"W X 88"L NEOPRENE PAD	PHOENIX PRODUCTS	NEOPRENE 1/4TX6"W		9909000050	SHIP LOOSE (FIELD INSTALLED UNDER EACH TANK SUPPORT)
24	1	5'-0" GAUGE STICK	PHOENIX PRODUCTS				SHIP LOOSE
25	1	OFF LOADING INSTRUCTIONS WITH WARRANTY FORM	PHOENIX PRODUCTS				SHIP LOOSE
26	1	O & M MANUALS	PHOENIX PRODUCTS				SHIP LOOSE
27	1	PAINT TOUCH-UP KIT TANK PHOENIX GREY	PHOENIX PRODUCTS			9000253500	SHIP LOOSE
28	1	PAINT SYSTEM: ACTIVATED ZINC EPOXY PRIMER. HIGH BUILD EPOXY INTERMEDIATE COAT. POLYURETHANE TOPCOAT WITH ZINC PHOSPHATE; COLOR: PHOENIX PRODUCTS STANDARD LIGHT GRAY.	PHOENIX PRODUCTS				331.33 SQ. FT.

BOM 2 OF 4

Phoenix Products

PHOENIX PRODUCTS
1727 BENNETT STREET
JACKSONVILLE, FLORIDA 32206

CITY OF SCHERTZ LIFT STATION

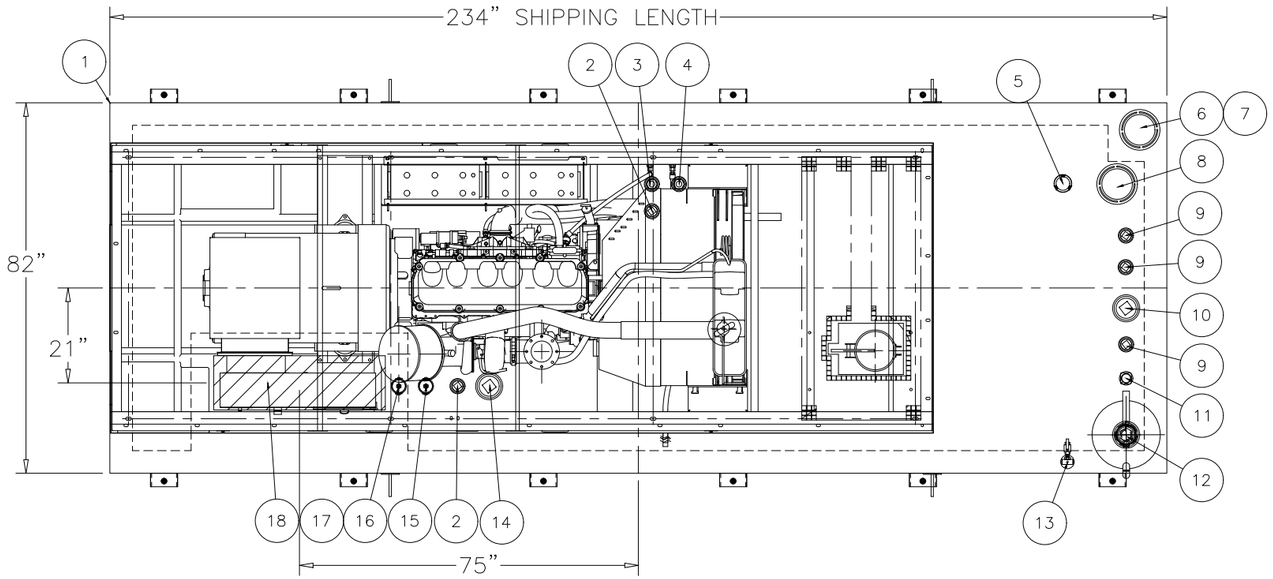
JOB# 24-406275

DRAWN BY:	CLN
CHECKED BY:	EBT
DATE:	03.04.24
SCALE:	N.T.S.

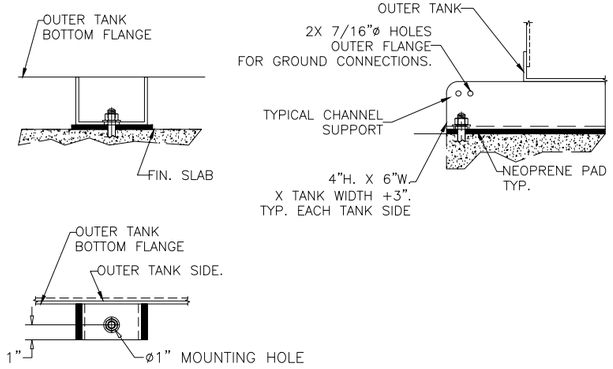
CUSTOMER/ PROJECT TYPE: GSDW-775 W/FACTORY ENCLOSED 400KW
TANK LABEL: ■ UL-142 □ UL-2085
F.D.E.P. CERTIFICATION NOS. □ EQ-013 ■ EQ-625 □ EQ-821

HOLT CAT

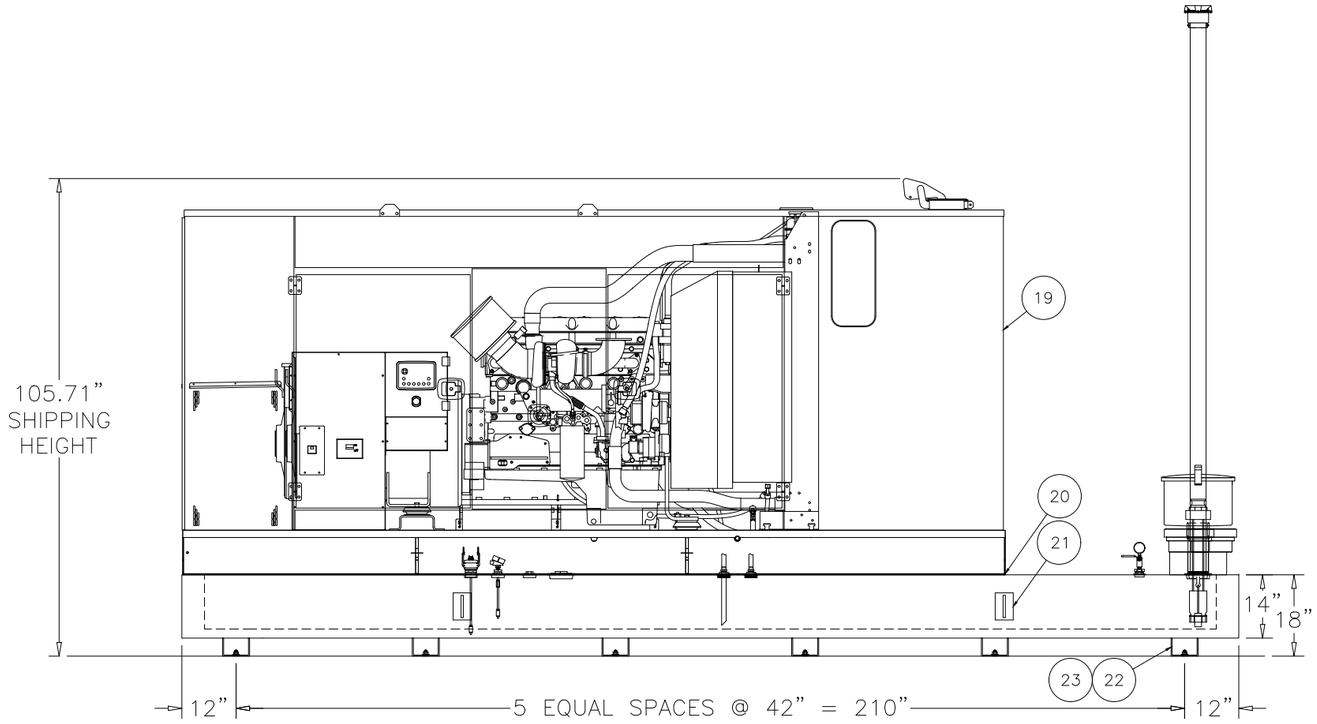
REV#	DESCRIPTION	BY	DATE:
A	SUBMITTED FOR CUSTOMER APPROVAL	CLN	03.04.24



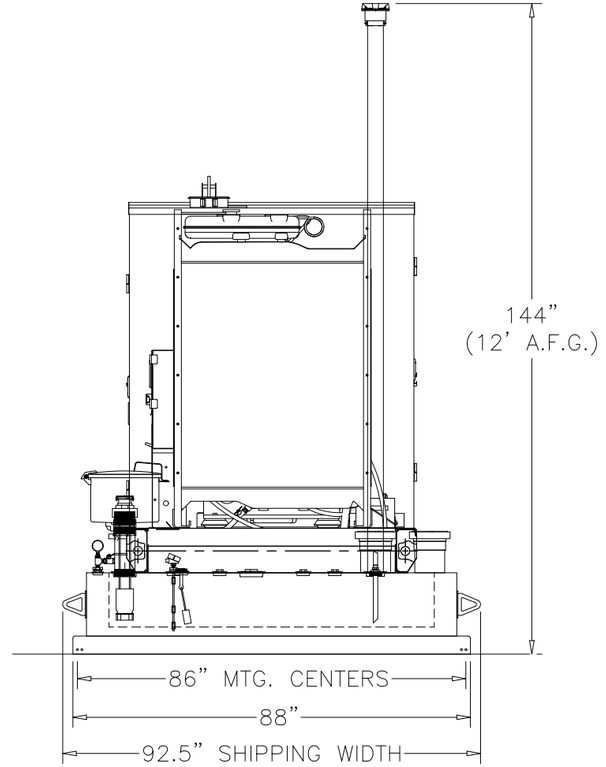
PLAN–GENSET & SUB–BASE TANK



DETAIL–MOUNTING CHANNELS



RIGHT SIDE ELEVATION–GENSET & SUB–BASE TANK



END ELEVATION–GENSET & SUB–BASE TANK

REV#	DESCRIPTION	BY	DATE:
A	SUBMITTED FOR CUSTOMER APPROVAL	CLN	03.04.24

CUSTOMER/ PROJECT TYPE: GSDW–775 W/FACTORY ENCLOSED 400KW
TANK LABEL: ■ UL–142 □ UL–2085
F.O.E.P. CERTIFICATION NOS. □ EQ–013 ■ EQ–625 □ EQ–821

HOLT CAT

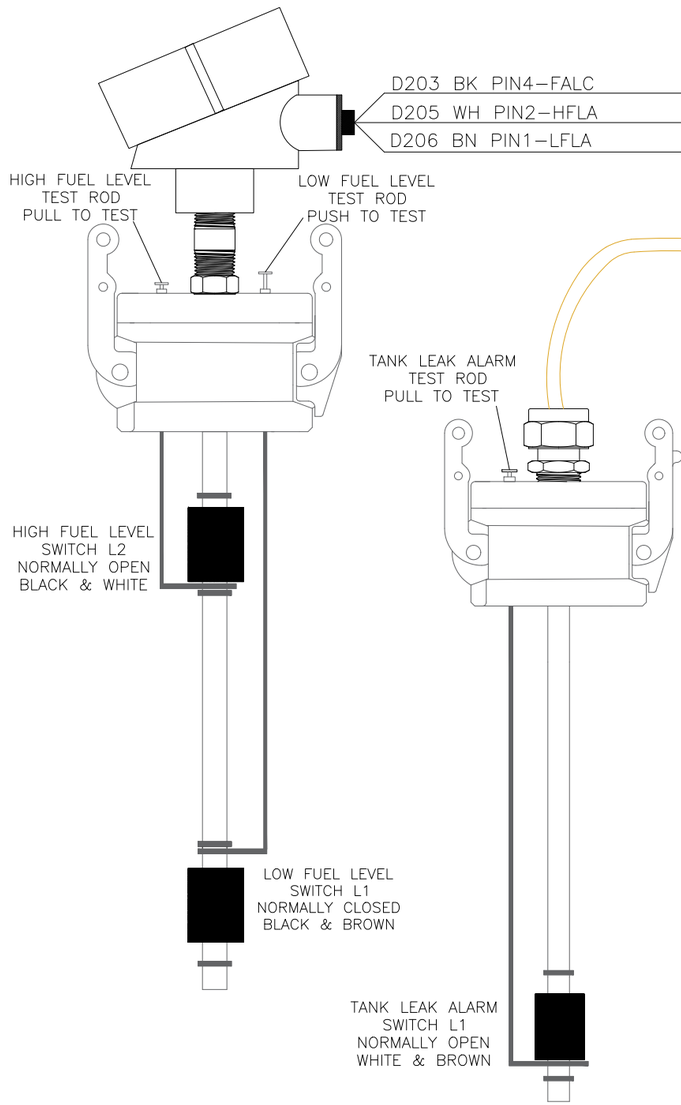
JOB# 24–406275

DRAWN BY:	CLN
CHECKED BY:	EBT
DATE:	03.04.24
SCALE:	N.T.S.

PHOENIX PRODUCTS
1707 MONROE STREET
JACKSONVILLE, FLORIDA 32206
CITY OF SCHERTZ LIFT STATION

Phoenix Products

S1
3 OF 4



D203 BK PIN4–FALC
D205 WH PIN2–HFLA
D206 BN PIN1–LFLA
D207 WH PIN2–TKLK
D203 BN PIN1–FALC

D203 BK PIN4–FALC
D203 BN PIN1–FALC

CLN_GND
REM_STRT
BATT–
BATT–
ESTOP_A
BATT+
BATT+

D207 WH PIN2–TKLK
REMOVE Y984–A52 WH–18
D206 BN PIN1–LFLA
D205 WH PIN2–HFLA

42	INPUT A (REMOTE START)
43	INPUT B (LOW COOLANT LEVEL)
44	INPUT C (FUEL LEAK)
45	INPUT D (SPARE)
46	INPUT E (LIGHT SWITCH)
47	INPUT F (SPARE)
48	INPUT G (SPARE)
49	INPUT H (SPARE)
15	ANALOG INPUT (GND)
16	ANALOG INPUT A (SPARE)
17	ANALOG INPUT B (SPARE)
18	ANALOG INPUT C (SPARE)
19	ANALOG INPUT D (SPARE)
26	DSENET B
27	DSENET A
28	DSENET SCR
50	RS485 SCR
51	RS485 B
52	RS485 A

REV# | DESCRIPTION | BY | DATE:
A | SUBMITTED FOR CUSTOMER APPROVAL | CLN | 03.04.24

CUSTOMER / PROJECT TYPE: GSDW–775 W/FACTORY ENCLOSED 400KW
TANK LABEL: ■ UL–142 □ UL–2085
F.D.E.P. CERTIFICATION NOS. □ EQ–013 ■ EQ–625 □ EQ–821

HOLT CAT

JOB# 24–406275

DRAWN BY:	CLN
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PHOENIX PRODUCTS
1757 MONETT STREET
JACKSONVILLE, FLORIDA 32206
CITY OF SCHERTZ LIFT STATION

Phoenix Products

E1
4 OF 4

S:\Eng\JOBS\2024 JOBS\24-406275 GSDW 400kw City of Schertz Lift Station Holt CAT RS\Submittals\24-406275 SUB-S1_REV A.dwg, 3/6/2024 8:36:54 AM, AutoCAD PDF (High Quality Print).pc3

CATERPILLAR ENGINE DIVISION
TECHNICAL COMMUNICATIONS GROUP

Installation Drawing Index
AutoCAD 2015 Format

Installation Drawing No. 6073702 chg 01

SOUND ATTENUATED L2 WITH INTEGRAL EXTENDED TANK

Overall Dimensions:

Length = 5257.10 mm

Width = 1630.00 mm

Height = 2564.60 mm

Engine pricing arrangements found on drawing:

LS3974 chg 02	LS3976 chg 02

Attachment pricing arrangements found on drawing:

LS1508 chg 00	LS3882 chg 00	LS3942 chg 00
LS3854 chg 00	LS3883 chg 00	LS3944 chg 00
LS3858 chg 00	LS3899 chg 00	LS3947 chg 00
LS3864 chg 00	LS3926 chg 00	LS3954 chg 00
LS3873 chg 00	LS3928 chg 00	LS3956 chg 00
LS3874 chg 00	LS3930 chg 00	LS3957 chg 00
LS3878 chg 00	LS3934 chg 00	LS3959 chg 00
LS3879 chg 00	LS3936 chg 00	LS4050 chg 00
LS3880 chg 00	LS3938 chg 00	3711790 chg 01
LS3881 chg 00		

6073702A.dwf = Summary Sheet of LS-3974 Chg 02 Shown. (sheet1)

LS1508 chg 00	LS3930 chg 00	LS3959 chg 00
LS3899 chg 00	LS3934 chg 00	LS3858 chg 00
LS3878 chg 00	LS3936 chg 00	LS3864 chg 00
LS3879 chg 00	LS3938 chg 00	LS3873 chg 00
LS3880 chg 00	LS3942 chg 00	LS3874 chg 00
LS3881 chg 00	LS3944 chg 00	LS3854 chg 00
LS3882 chg 00	LS3947 chg 00	LS4050 chg 00
LS3883 chg 00	LS3954 chg 00	LS3974 chg 02
LS3926 chg 00	LS3956 chg 00	LS3976 chg 02
LS3928 chg 00	LS3957 chg 00	3711790 chg 01

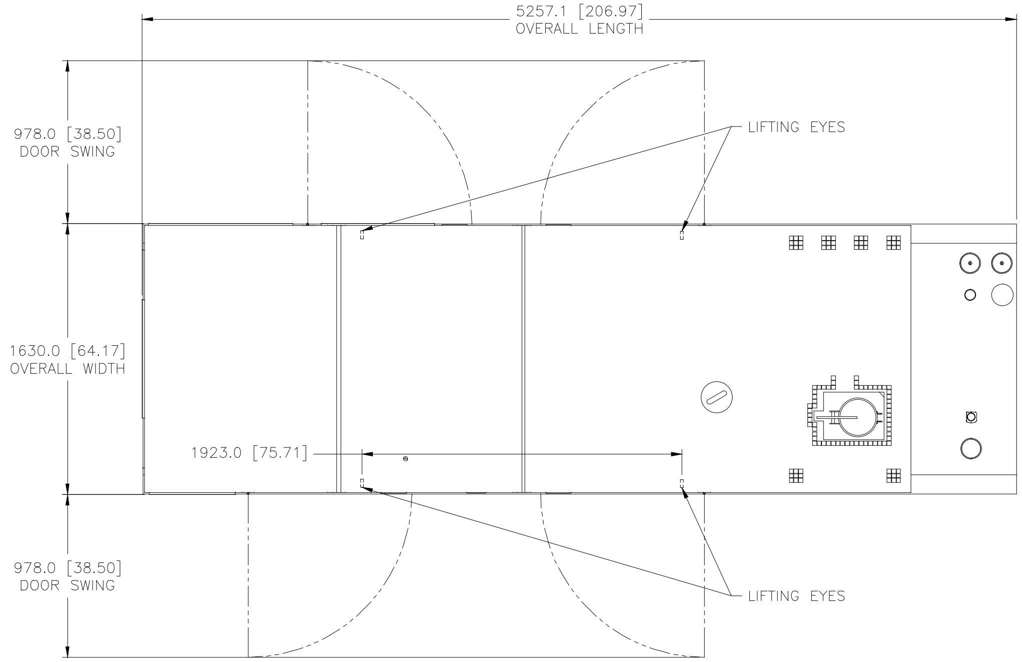
6073702B.dwf = Top View, Right Side View, & Rear View of LS-39734Chg 02 Shown. (sheet2)

6073702C.dwf = View A-A (Left Side View of LS-3974 Chg 02) & View B-B (Top View of LS-4050 Chg 00). (sheet3)

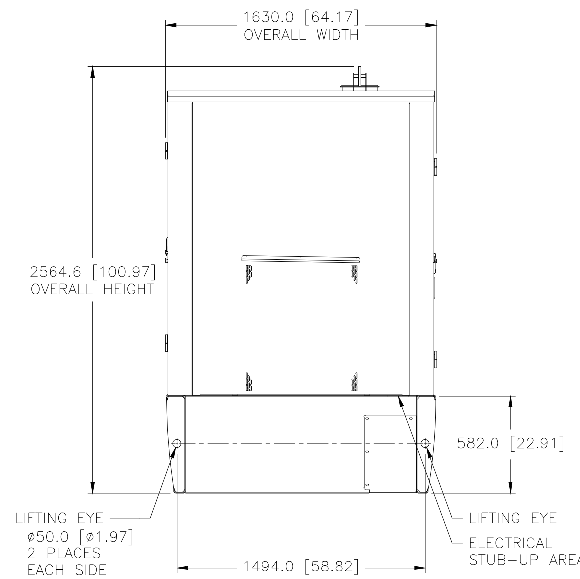
METRIC 607-3702

QTY	ENGINE CONNECTIONS	SIZE	SHEET
1	COOLANT DRAIN	ø19.1 [ø0.75] I.D.	2
1	EXHAUST	ø203.2 [ø8.00] O.D.	2

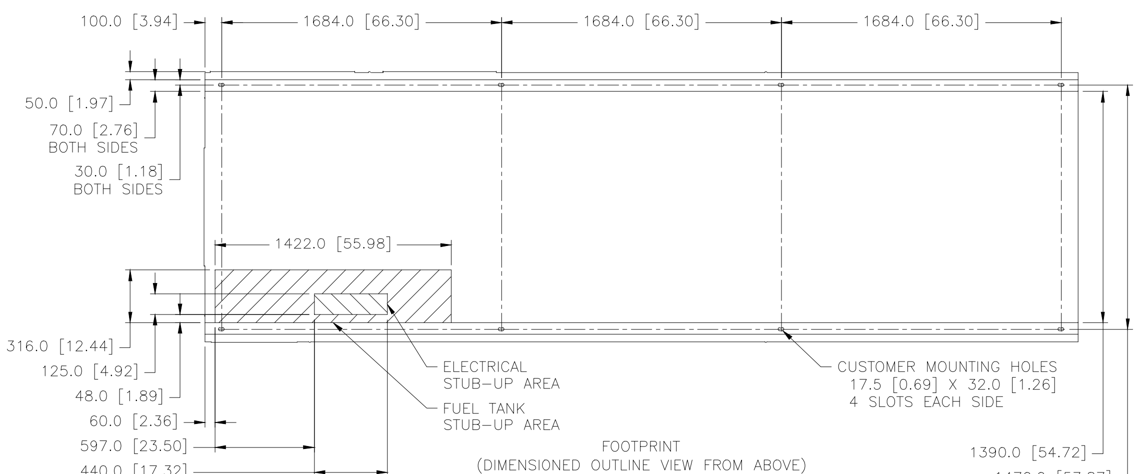
QTY	POSSIBLE TANK CONNECTIONS	SIZE	SHEET
1	BASIN TANK EMERGENCY VENT	5" NPT THD	3
1	FUEL INLET	4" NPT THD	3
1	FUEL RETURN	1/2-14 NPTF	3
1	FUEL SUPPLY	1/2-14 NPTF	3
1	MAIN TANK EMERGENCY VENT	5" NPT THD	3
1	NORMAL VENT	2-11 1/2 NPTF	3
3	SPARE PORT	2-11 1/2 NPTF	3



TOP VIEW
[RIGHT SIDE ORIENTATION]



REAR VIEW



FOOTPRINT
(DIMENSIONED OUTLINE VIEW FROM ABOVE)
(RIGHT SIDE ORIENTATION)

PACKAGE LIFTED IN 4 PLACES

PACKAGE SHOWN WITH MORE DETAIL ON SHEETS 2 & 3

MODEL	TYPE	PRICING AR	FUEL TANK	ENCLOSURE
C13	Y	LS-3974 CHG 02 LS-3976 CHG 02	LS-4050 CHG 00	LS-3858 CHG 00

SPEC NO.	NAME
1E2733	DRAWING-AUTOCAD
1E0198W	BRAND MARKINGS
1E0013G	CONFIDENTIALITY
1E0012A	INTERPRETATION
1E0011	INTPR & TOL

DRN H.ZHAO
CHK M.J. SWIFT
APPD B.D.MARTIN
CON-CEPT EXP PRE PROD. PROD.
OTHER RECORDS X

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM [INCH]
DIMENSIONS W/O TOL ARE BASIC

SCALE 1 = 10
SHEET 1 OF 3
THIRD ANGLE PROJECTION

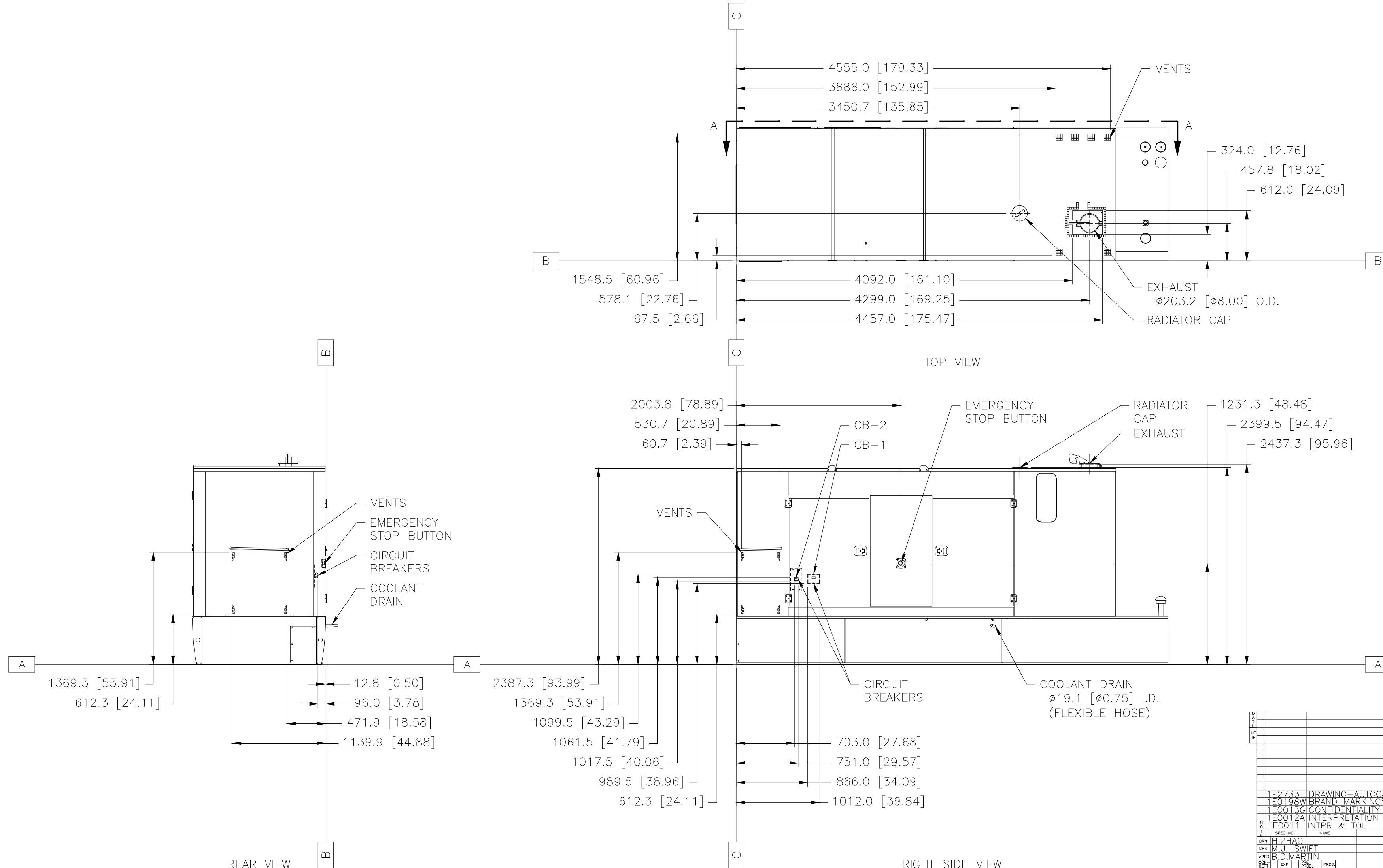
CHG	DATE
01	21NOV23

CATERPILLAR INC.

INSTALLATION-COMPOSITE
C13 SA L2 + EXTENDED TANK

607-3702 VER - CONTROL DES X SUB A180 E

METRIC 607-3702



SPEC NO.	NAME
1E2733	DRAWING-AUTOCAD
1E0198W	BRAND MARKINGS
1E0013G	CONFIDENTIALITY
1E0012A	INTERPRETATION
1E0011	INTPR & TOL

DRN H.ZHAO
CHK M.J. SWIFT
APPD B.D.MARTIN
CONCEPT | EXP | PRE PROD. | PROD.
RECORDS X

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM [INCH]
DIMENSIONS W/O TOL ARE BASIC

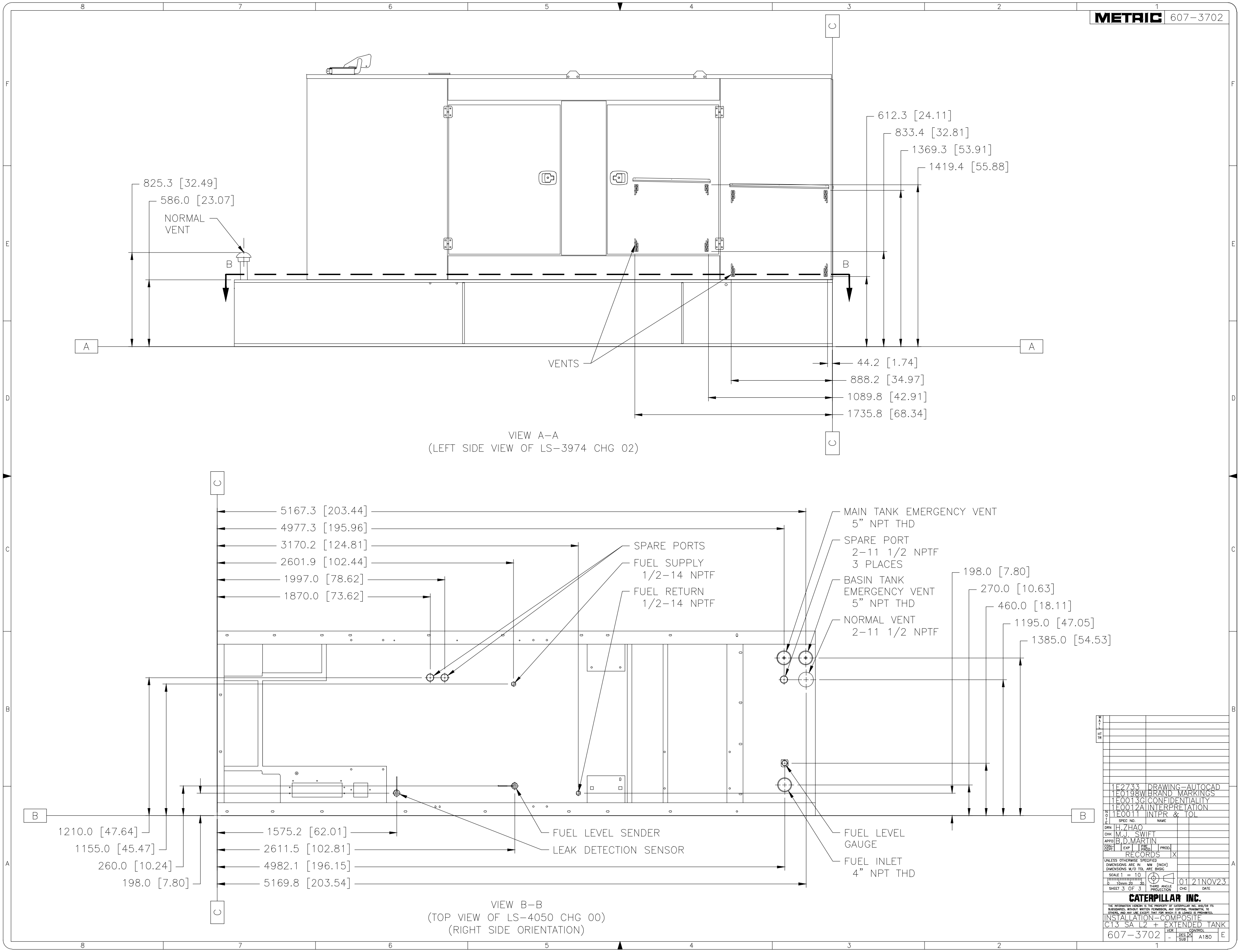
SCALE 1 = 16
SHEET 2 OF 3
THIRD ANGLE PROJECTION

CHG	DATE
01	21NOV23

CATERPILLAR INC.

INSTALLATION-COMPOSITE
C13 SA L2 + EXTENDED TANK

607-3702 | VER - | CONTROL DES SUB A180 | E


METRIC 607-3702
825.3 [32.49]
586.0 [23.07]
NORMAL VENT
612.3 [24.11]
833.4 [32.81]
1369.3 [53.91]
1419.4 [55.88]
VENTS
44.2 [1.74]
888.2 [34.97]
1089.8 [42.91]
1735.8 [68.34]
VIEW A-A
(LEFT SIDE VIEW OF LS-3974 CHG 02)
5167.3 [203.44]
4977.3 [195.96]
3170.2 [124.81]
2601.9 [102.44]
1997.0 [78.62]
1870.0 [73.62]
SPARE PORTS
FUEL SUPPLY
1/2-14 NPTF
FUEL RETURN
1/2-14 NPTF
MAIN TANK EMERGENCY VENT
5" NPT THD
SPARE PORT
2-11 1/2 NPTF
3 PLACES
BASIN TANK
EMERGENCY VENT
5" NPT THD
NORMAL VENT
2-11 1/2 NPTF
198.0 [7.80]
270.0 [10.63]
460.0 [18.11]
1195.0 [47.05]
1385.0 [54.53]
1210.0 [47.64]
1155.0 [45.47]
260.0 [10.24]
198.0 [7.80]
1575.2 [62.01]
2611.5 [102.81]
4982.1 [196.15]
5169.8 [203.54]
FUEL LEVEL SENDER
LEAK DETECTION SENSOR
FUEL LEVEL
GAUGE
FUEL INLET
4" NPT THD
VIEW B-B
(TOP VIEW OF LS-4050 CHG 00)
(RIGHT SIDE ORIENTATION)
1E2733 DRAWING-AUTOCAD
1E0198W BRAND MARKINGS
1E0013G CONFIDENTIALITY
1E0012A INTERPRETATION
1E0011 INTPR & TOL
SPEC NO. NAME
DRN H.ZHAO
CHK M.J. SWIFT
APPD B.D.MARTIN
CONCEPT EXP PRE PROD. PROD.
RECORDS X
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM [INCH]
DIMENSIONS W/O TOL ARE BASIC
SCALE 1 = 10
SHEET 3 OF 3
THIRD ANGLE PROJECTION
01 21NOV23
CHG DATE
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INSTALLATION-COMPOSITE
C13 SA L2 + EXTENDED TANK
607-3702 VER - CONTROL DES SUB A180 E

Image shown may not reflect actual configuration.

D250 GC – D600 GC Sound Attenuated Enclosures

60 Hz

Features

Robust/Highly Corrosion Resistant Construction

- Safeguards genset against environmental and weather conditions
- Factory installed on skid base or tanks base
- Environmentally friendly, polyester powder baked paint
- Enclosure constructed with 18-gauge steel
- Interior zinc plated fasteners
- Internally mounted exhaust silencing system
- Comply with ASCE /SEI 7 for Wind loads up to 100 mph
- Designed and tested to comply with UL 2200 Listed generator set package

Excellent Access

- Large cable entry area for installation ease
- Accommodates side mounted single or multiple breakers
- Two doors on both sides
- Vertically hinged allow 180° opening rotation
- Radiator fill cover

Security and Safety

- Lockable access doors which give full access to control panel and breaker
- Cooling fan and battery charging alternator fully guarded
- Fuel fill, oil fill and battery can only be reached via lockable access
- Externally mounted emergency stop button (Optional)
- Designed for spreader bar lifting to ensure safety
- Stub-up area is rodent proof

Sound Attenuated Level 2

- Caterpillar white paint
- UL Listed integral fuel tank with 24 hours running time capacity (Optional)
- DC lighting package (Optional)

Enclosure Package Operating Characteristics

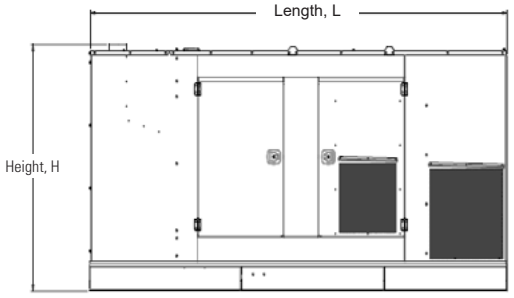
Enclosure Type	Standby	Cooling Air Flow Rate		Ambient Capability*		Sound Pressure Levels (dBA) at 7m (23 ft)
	ekW	m^3/s	cfm	°C	°F	100% Load
Level 2 Sound Attenuated Enclosure (Steel)	250	6.4	13561	57	135	74
	300	6.4	13561	51	125	74
	350	7.4	15680	57	134	71
	400	7.4	15680	53	127	71
	450	8.4	17692	54	130	73
	500	8.4	17692	50	122	73
	550	11.2	23731	56	133	73
	600	11.2	23731	53	127	73

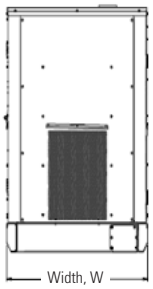
*Cooling system performance at sea level. Consult your Cat® dealer for site specific ambient and altitude capabilities.
Note: Sound level measurements are subject to instrumentation, installation and manufacturing variability, as well as ambient site conditions

Cat® GC ENCLOSURES

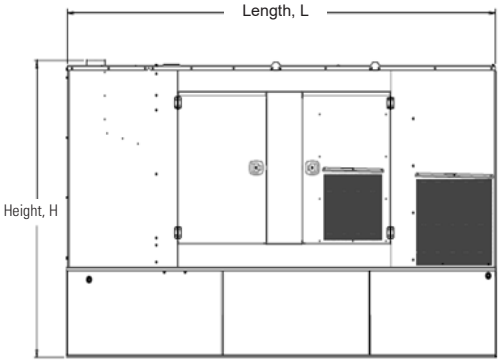
Weights and Dimensions

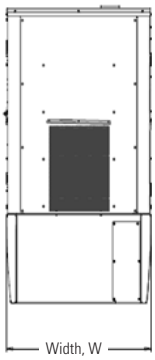
Enclosure Type	Standby Ratings	Length, L		Width, W		Height, H		Package Weights	
	ekW	mm	in	mm	in	mm	in	kg	lb
Sound Attenuated Enclosure on Skid Base	250	3958	155.8	1440	56.7	1991	78.4	2857	6298.6
	300							2945	6492.6
	350	4633	182.4	1630	64.2	2227	87.7	3983	8781.0
	400							4017	8856.0
	450	4823	189.8	1630	64.2	2227	87.7	4408	9718.0
	500							4457	9826.0
	550	4980	196.1	1865	73.4	2172	85.5	4754	10480.8
	600							4837	10663.8
Sound Attenuated Enclosure on UL Listed Integral Fuel Tank Base	250	3958	155.8	1440	56.7	2487	97.9	3497	7709.6
	300							3585	7903.6
	350	4633	182.4	1630	64.2	2644	104.1	4765	10505.0
	400							4799	10580.0
	450	4823	189.8	1630	64.2	2777	109.3	5345	11783.7
	500							5394	11891.7
	550	4980	196.1	1865	73.4	2723	107.2	5973	13168.2
	600							6056	13351.2
Sound Attenuated Enclosure on UL Listed Extended Integral Fuel Tank Base	250	4608	181.4	1430	56.3	2379	93.7	3590	7914.6
	300							3678	8108.6
	350	5251	203.7	1620	63.8	2561	100.8	4876	10749.7
	400							4910	10824.7
	450	5909	232.6	1620	63.8	2612	102.8	5497	12118.8
	500							5546	12226.8
	550	6759	266.1	1865	73.4	2487	97.9	6237	13750.2
	600							6320	13933.2





Sound Attenuated Enclosure on Skid Base





Sound Attenuated Enclosure on a UL Listed Integral Fuel Tank Base

Image shown may not reflect actual configuration

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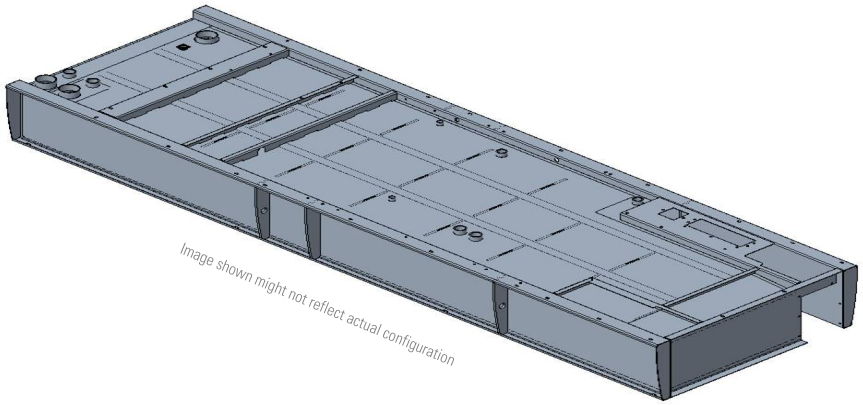
LEHE2014-06 (08/23)

Cat® GC FUEL TANKS



EXTENDED FUEL TANKS

D250 GC – D600 GC

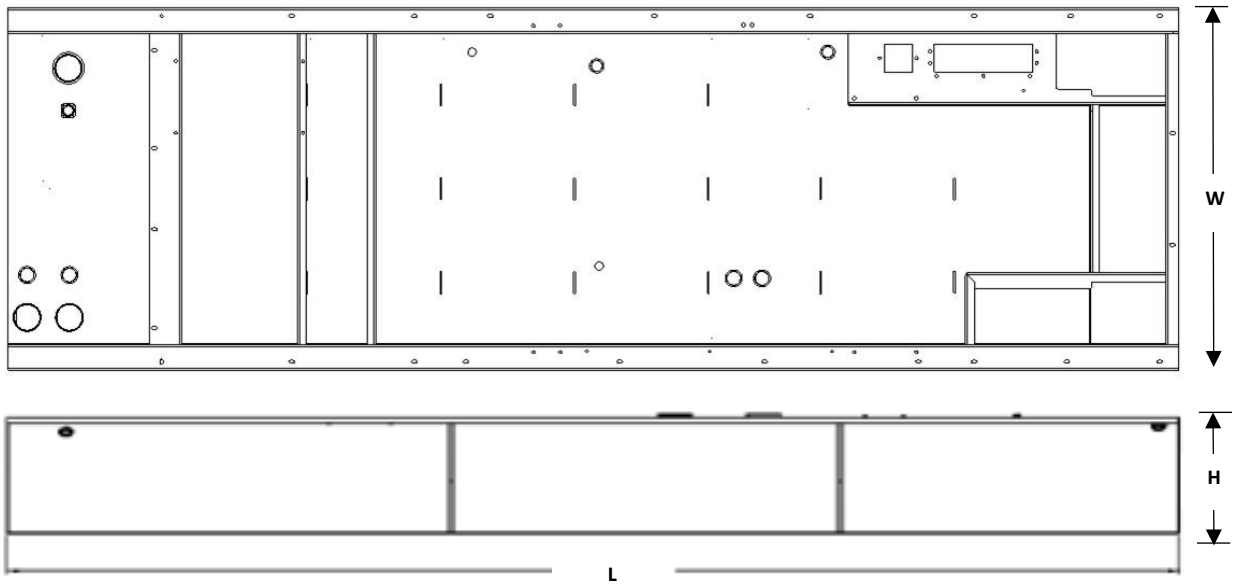
FEATURES

- UL Listed for United States (UL 142) and Canada (CAN/ULC S601)
- Facilitates compliance with NFPA 30 code, NFPA 37 and 110 standards and CSA C282 code
- Dual wall
- Low fuel level warning standard, customer configurable warning or shutdown
- Primary tank leak detection switch in containment basin
- Tank design provides capacity for thermal expansion of fuel
- Fuel supply dip tube is positioned so as not to pick up fuel sediment
- Fuel return and supply dip tube is separated by an internal baffle to prevent immediate re-supply of heated return fuel
- Pressure washed with an iron phosphate solution
- Interior tank surfaces coated with a solvent-based thin-film rust preventative
- Heavy gauge steel gussets with internal lifting rings
- Primary and secondary tanks are leak tested at 20.7 kPa (3 psi) minimum
- Compatible with open packages and enclosures
- Gloss black polyester alkyd enamel exterior paint
- Welded steel containment basin (minimum of 110% of primary tank capacity)
- Direct reading fuel gauge with variable electrical output
- Emergency vents on primary and secondary tanks are sized in accordance with NFPA 30.

OPTIONS

- Audio/visual fuel level alarm panel
- ULC / CSA Accessory Kit
- 5gal (18.9 L) spill containment
- Overfill prevention Valve
- Fuel tank fill pipe & lockable cap

Fuel Tank Base Useable Capacities with Fuel Tank Dimensions & Weights



The heights listed above do not include lumber used during manufacturing and shipping

A. Open Set & Sound Attenuated Enclosure

Tank Design	Feature Code	Total Capacity		Useable Capacity		Tank Only								Overall Package Height with Tank			
						Dry Weight		Height 'H'		Length 'L'		Width'W'		Open		Enclosure	
		Litre	Gallon	Litre	Gallon	kg	lb	mm	in	mm	in	mm	in	mm	in	mm	in
Extended Tank	FTDW039	2341	618.4	2060	538.9	1075	2370	639	25.1	4608	181.4	1430	56.3	2095	82.4	2385	93.9
	FTDW040	2862	756	2540	671	1294	2852	586	23	5252	206.7	1620	63.8	2503	98.5	2563	100.9
	FTDW041	3633	959.7	3286	868.1	1506	3302	635	25	5910	228.7	1620	63.8	2291	90.1	2479	97.6
	FTDW042	4271	1128.2	3878	1024	1944	4285	585	23	6759	266.1	1865	73.4	2345	92.3	1957	77.0

B. Estimated Run Time (Hours)

Tank Design	Feature Code	Standby Ratings (kVA)						
		ekW	100%		75%		50%	
			Hrs	L/hr	Hrs	L/hr	Hrs	L/hr
Tank	FTDW039	250	28.1	73.3	35	35.0	47	47.0
		300	24	86	30.8	30.8	40	40.0
	FTDW040	350	26.9	94.3	31.2	81.9	42.4	60.2
		400	24.0	105.8	28.1	90.7	38.6	66.2
	FTDW041	450	25.0	131.7	31.3	106.1	42.0	79.1
		500	24.0	137	30.1	110.5	46.6	71.3
	FTDW042	550	25.7	151.1	32.9	118.1	45.2	86.1
		600	24.1	161.6	30.0	129.6	42.4	91.7

Tanks with full electrical stub-up area include removable end channel. Tanks with RH stub-up include stubup area directly below the circuit breaker or power terminal strips.

Fuel tanks and applicable options facilitate compliance with the following United States NFPA Code and Standards:

NFPA 30: Flammable and Combustible Liquids Code

NFPA 37: Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines

NFPA 110: Standard for Emergency and Standby Power Systems

Fuel tanks and applicable options facilitate compliance with the following Canadian Standard and Code:

CSA C282 – Emergency Electrical Power Supply for Buildings

CSA B139-09 – Installation Code for Oil-Burning Equipment

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LEHE2624-01 (07-20)

www.Cat.com/electricpower

Cat® D350 GC
Diesel Generator Sets

Standby : 60 Hz

Image shown may not reflect actual configuration.

Engine Model	Cat® C13 In-line 6, 4-cycle diesel
Bore x Stroke	130 mm x 157 mm (5.1 in x 6.2 in)
Displacement	12.5 L (763 in³)
Compression Ratio	16.3:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4

Model	Standby	Emission Strategy
D350 GC	350 ekW, 437.5 kVA	EPA Certified for Stationary Emergency Application

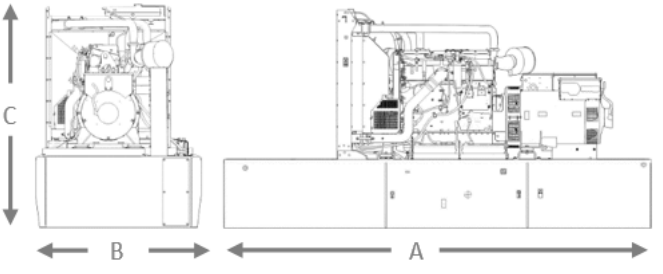
PACKAGE PERFORMANCE

Performance	Standby
Frequency	60 Hz
Genset Power Rating	437.50 kVA
Genset power rating with fan @ 0.8 power factor	350 ekW
Emissions	EPA TIER 3
Performance Number	EM1692
Fuel Consumption	
100% load with fan, L/hr (gal/hr)	94.3 (24.9)
75% load with fan, L/hr (gal/hr)	81.9 (21.6)
50% load with fan, L/hr (gal/hr)	60.2 (15.9)
25% load with fan, L/hr (gal/hr)	34.3 (9.1)
Cooling System[1]	
Radiator air flow restriction (system), kPa (in water)	0.12 (0.48)
Radiator air flow, m³/min (cfm)	497 (17551)
Engine coolant capacity, L (gal)	14.2 (3.8)
Radiator coolant capacity, L (gal)	30 (8)
Total coolant capacity, L (gal)	34 (12)
Inlet Air	
Combustion air inlet flow rate m³/min (cfm)	24.8 (874.4)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	49 (120)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	571.2 (1060.1)
Exhaust gas flow rate, m³/min (cfm)	73.4 (2591.3)
Exhaust system backpressure (maximum allowable) kPa (in. water)	10.0 (40.0)
Heat Rejection	
Heat rejection to jacket water, kW (Btu/min)	143 (8132)
Heat rejection to exhaust (total), kW (Btu/min)	360 (20484)
Heat rejection to aftercooler, kW (Btu/min)	55 (3108)
Heat rejection to atmosphere from engine, kW (Btu/min)	47 (2694)
Heat rejection from alternator, kW (Btu/min)	24 (1382)
Emissions (Nominal)[2]	
NOx, mg/Nm³ (g/hp-hr)	2274.7 (4.58)
CO, mg/Nm³ (g/hp-hr)	666.9 (1.35)
HC, mg/Nm³ (g/hp-hr)	6.2 (0.01)
PM, mg/Nm³ (g/hp-hr)	39.4 (0.10)

D350 GC Diesel Generator Sets
Electric Power

Alternator[3]		
Voltages	480V	600V
Motor starting capability @ 30% Voltage Dip, skVA	863	951
Current Amps	526.2	421
Frame Size	M3115L41	M3115L41
Excitation	S.E	AREP
Temperature Rise, °C	105	105

WEIGHTS & DIMENSIONS – OPEN SET



FUEL TANK CAPACITY

Tank Design	Total Capacity L (gal)	Useable Capacity L (gal)
Integral	2820 (744.9)	2553 (674.4)

Base	Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Generator Set Weight kg (lb)
Skid (Wide Base)	4625 (182.8)	1630 (64.2)	2039 (80.3)	3291 (7255.4)
Integral Tank Base	4625 (182.8)	1630 (64.2)	2456 (96.7)	3143 (6929.1)

Note: General configuration not to be used for installation. See general dimension drawings for detail.

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.
Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative for availability.

STANDBY: Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

FUEL RATES: Based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/litre (7.001 lbs/U.S. gal.). Additional ratings may be available for specific customer requirements, contact your Caterpillar representative for details.
For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.

DEFINITIONS AND CONDITIONS

[1] For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

[2] Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 BTU/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.

[3] UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.

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LEHE2008-06 (09/22)

Attachment D
Spill and Overfill Control

Spill and Overfill Control

Spill and overflow control are provided in attached cutsheets showing specification requirements for fuel tank containment.

Attachment E
Response Actions to Spills

Response Actions to Spills

If there is an accidental spill on site, the contractor shall respond with appropriate action. The contractor will be required to contact the owner and in turn the owner will contact the TCEQ in the event of a spill on site. In addition to the following guidance, reference the latest version of TCEQ's Technical Guidance Manual (TGM) RG-348 Section 1.4.16.

Cleanup

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

Minor Spills

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- Notify the TCEQ by telephone as soon as possible and within 24 hours at (512)339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- Notification should first be made by telephone and followed up with a written report.
- The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- Other agencies which may need to be consulted include, but not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

SECTION 6: TEMPORARY STORMWATER SECTION

5301 Southwest Parkway, Building 2, Suite 100, Austin, TX 78735 512 646 2237

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.

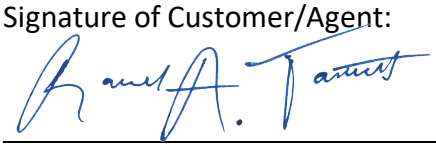
Signature

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: Rachel Tackett, P.E

Date: 8/26/2024

Signature of Customer/Agent:



Regulated Entity Name: Rockwall Ranch Subdivision

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: Diesel

   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

Spill Response Actions

If there is an accidental spill on site, the contractor shall respond with appropriate action. The contractor will be required to contact the owner and in turn the owner will contact the TCEQ in the event of a spill on site. In addition to the following guidance, reference the latest version of TCEQ's Technical Guidance Manual (TGM) RG-348 Section 1.4.16.

Cleanup

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

Minor Spills

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

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

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

Attachment B
Potential Sources of Contamination

Potential Sources of Contamination

Potential Source: Oil, grease, fuel, and hydraulic fluid contamination from construction equipment and vehicle dripping.

Preventative Measures: Vehicle maintenance will be performed within the construction staging area or a local maintenance shop.

Potential Source: Miscellaneous trash and litter from construction workers and material wrappings.

Preventative Measures: Trash containers will be placed throughout the site to encourage proper disposal of trash.

Potential Source: Silt leaving the site.

Preventative Measures: Contractor will install all temporary best management practices prior to start of construction including the stabilized construction entrance to prevent tracking onto adjoining streets.

Potential Source: Construction Debris.

Preventative Measures: Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case by case basis.

Potential Source: Soil and Mud from Construction Vehicle tires as they leave the site.

Preventative Measures: A stabilized construction exit shall be utilized as vehicles leave the site. Any soil, mud, etc. carried from the project onto public roads shall be cleaned up within 24 hours.

Potential Source: Sediment from soil, sand, gravel and excavated materials stock piled on site.

Preventative Measures: Silt fence shall be installed on the down gradient side of the stock piled materials. Reinforced rock berms shall be installed at all downstream discharge locations.

Potential Source: Portable toilet spill.

Preventative Measures: Toilets on the site will be emptied on a regular basis by the contracted toilet company.

Attachment C
Sequence of Major Activities

Sequence of Major Activities

The installation of erosion and sedimentation controls shall occur prior to any excavation of materials or major disturbances on the site. The sequence of major construction activities is for the site area of 1.57 acres.

Intended Schedule or Sequence of Major Activities:

1. Construct Access
2. Mobilization
3. Installation of Temporary BMPs
4. Subgrade Preparation (earthwork, grading, excavation, embankment)
5. Concrete (foundations and flatwork)
6. Building Construction (building, generator pad, and transformer pad)
7. Paving Activities (driveway)
8. Revegetation of Unpaved Areas
9. Achieve Site Stabilization and Remove Temporary BMPs

Attachment D

Temporary Best Management Practices and Measures

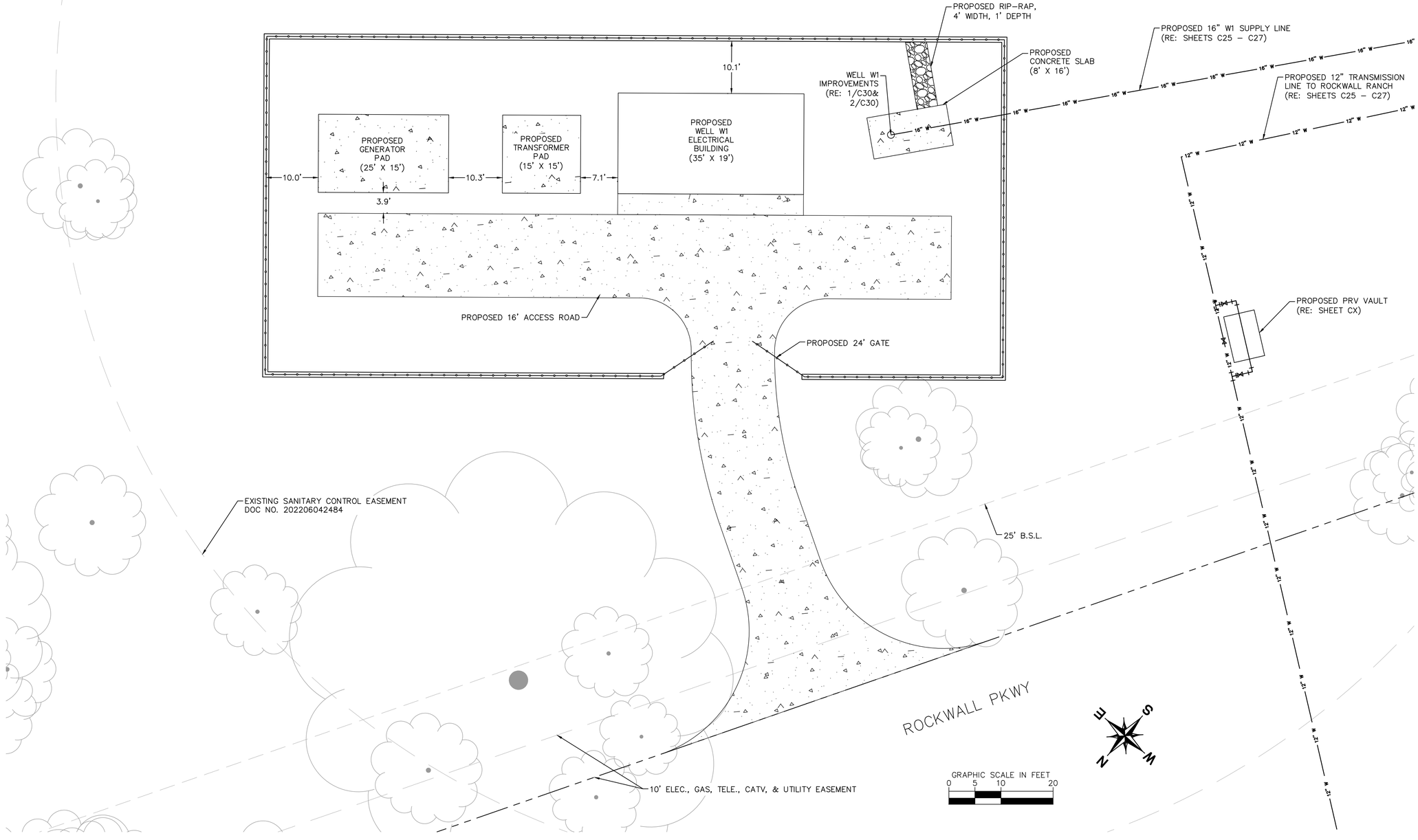
Temporary Best Management Practices and Measures

A. Temporary BMPs will be installed prior to soil disturbing construction activity. Silt fencing will be placed along the down-gradient sides of the property to prevent silt from escaping the construction area. A temporary construction entrance will be placed on site to reduce vehicle "tracking" onto adjoining streets. A concrete washout pit will be used to collect all excess concrete during construction.

BMPs for this project will protect surface water or groundwater from sediment, oil, and other contaminants, which may mobilize in storm water flows by slowing the flow of runoff to allow sediment and suspended solids to settle out of the runoff.

Practices may also bet implemented on site for interim and permanent stabilization. Stabilization practices may include but are not limited to: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles , protection of existing trees and vegetation, and other similar measures.

B. There are no sensitive features or surface streams within the boundaries of the project. The temporary onsite BMPs will be used to treat stormwater runoff before it leaves the project and prevent pollutants from entering into surface streams or any sensitive features down-gradient of the site.



1 C29 WELL W1 SITE PLAN AND DIMENSIONAL CONTROL

SCALE: 1" = 10'

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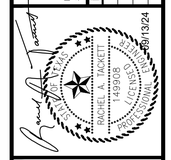
No.	Revision	By	Date



KT WATER SYSTEM
PUMP STATION #1

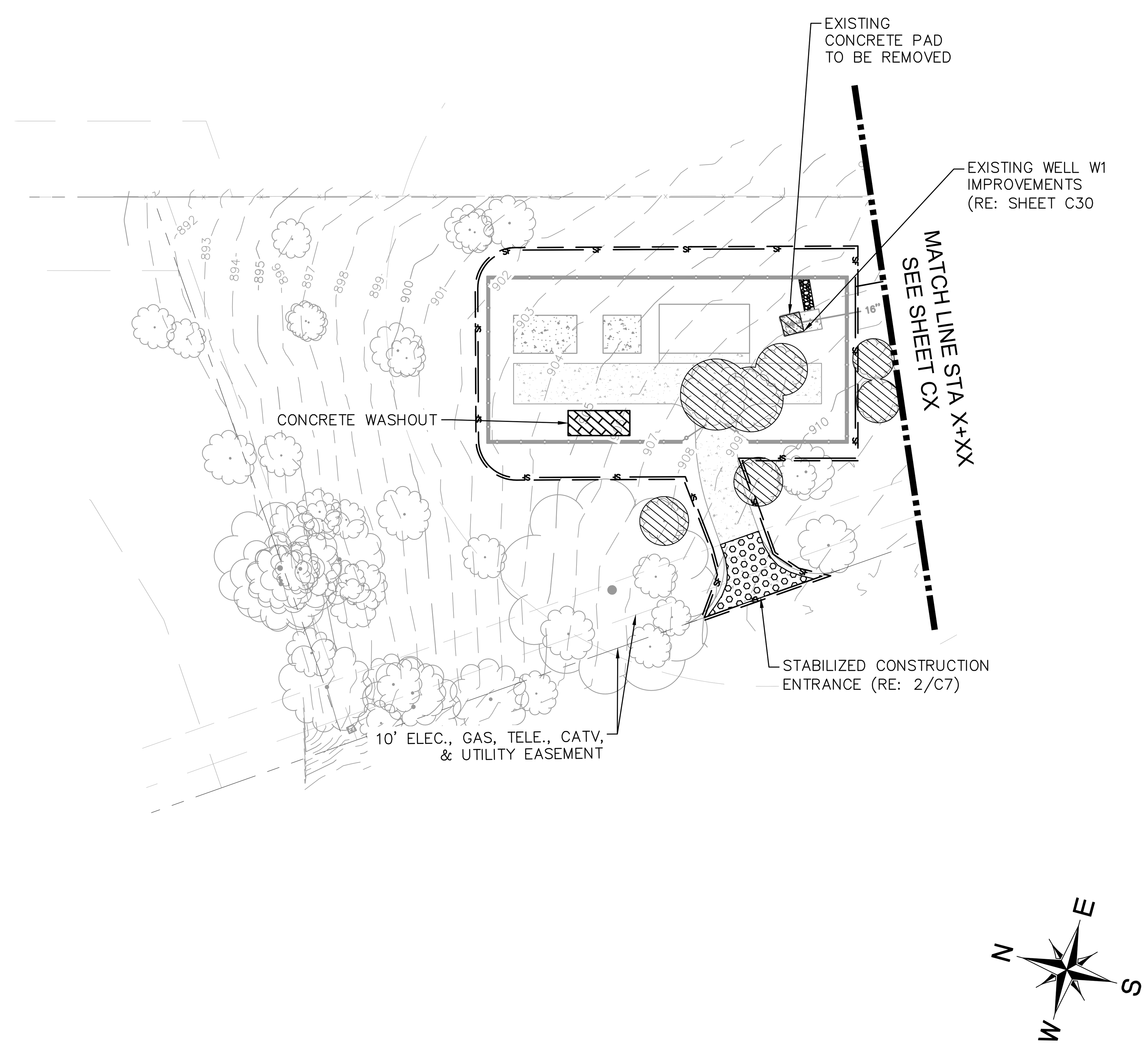
TEXAS WATER COMPANY

WELL W1 SITE PLAN &
DIMENSIONAL CONTROL

DATE:	SEPTEMBER 2024
DESIGN:	RAT
DRAWN:	LEG
CHECKED:	SRM
KHA NO.:	069277513

SHEET

C29



LEGEND

— 800 —	EXISTING 5' CONTOUR
— 801 —	EXISTING 1' CONTOUR
— 800 —	PROPOSED 5' CONTOUR
— 801 —	PROPOSED 1' CONTOUR
FFE = 582.50	PROPOSED FINISHED FLOOR OR TOP OF SLAB ELEVATION
— — → —	FLOW LINE
— — — —	LOC
— SF — SF —	PROPOSED SILT FENCE
	EXISTING TREE
	EXISTING TREE DRIPLINE
	EXISTING STRUCTURE OR VEGETATION TO BE REMOVED

GRAPHIC SCALE IN FEET
0 20 40 80

1
C28
DEMOLITION AND EROSION CONTROL PLAN – WELL W1 SITE
SCALE: 1" = 40'

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No.	Revision	By	Date

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KT WATER SYSTEM
PUMP STATION #1

TEXAS WATER COMPANY

WELL W1 DEMOLITION & EROSION CONTROL PLAN

DATE:	SEPTEMBER 2024
DESIGN:	RAT
DRAWN:	LEG
CHECKED:	SRM
KHA NO.:	069277513

SHEET
C28

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Attachment F
Structural Practices

Structural Practices

Structural BMPs will be used to limit runoff discharge of pollutants from exposed areas of the site. BMPs will be installed prior to soil disturbing construction activity. Silt fencing will be placed along the down-gradient sides of the property to prevent silt from escaping the construction area. A temporary construction entrance will be placed at the site entry/exit point to reduce tracking onto adjoining streets. A construction staging area will be used onsite to perform all vehicle maintenance and for equipment and material storage. A concrete truck washout pit will be placed on site to provide containment and easier cleanup of waste from concrete operations. The location of all structural temporary BMP's are shown on the erosion control plan sheet and details and specifications are provided on the erosion control details sheet.

Description of Temporary BMPs

Temporary Construction Entrance/Exit

The purpose of a temporary gravel construction entrance is to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. A stabilized construction entrance is a stabilized pad of crushed stone located at any point traffic will be entering or leaving the construction site from a public right-of-way, street, alley, sidewalk or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking or flowing of sediment onto public rights-of-way. This practice should be used at all points of construction ingress and egress.

Excessive amounts of mud can also present a safety hazard to roadway users. To minimize the amount of sediment loss to nearby roads, access to the construction site should be limited to as few points as possible and vegetation around the perimeter should be protected were access is not necessary. A rock stabilized construction entrance should be used at all designated access points.

Silt Fence

The purpose of a silt fence is to intercept and detain water-borne sediment from unprotected areas of a limited extent. Silt fence is used during the period of construction near the perimeter of a disturbed area to intercept sediment while allowing water to percolate through. This fence should remain in place until the disturbed area is permanently stabilized. Silt fence should not be used where there is a concentration of water in a channel or drainage way. If concentrated flow occurs after installation, corrective action must be taken such as placing a rock berm in the areas of concentrated flow.

Silt fencing within the site may be temporarily moved during the day to allow construction activity provided it is replaced and properly anchored to the ground at the end of the day. Silt fences on the perimeter of the site or around drainage ways should not be moved at any time.

Concrete Washout Area

The purpose of concrete washout areas is to prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors.
The following steps will help reduce stormwater pollution from concrete wastes:

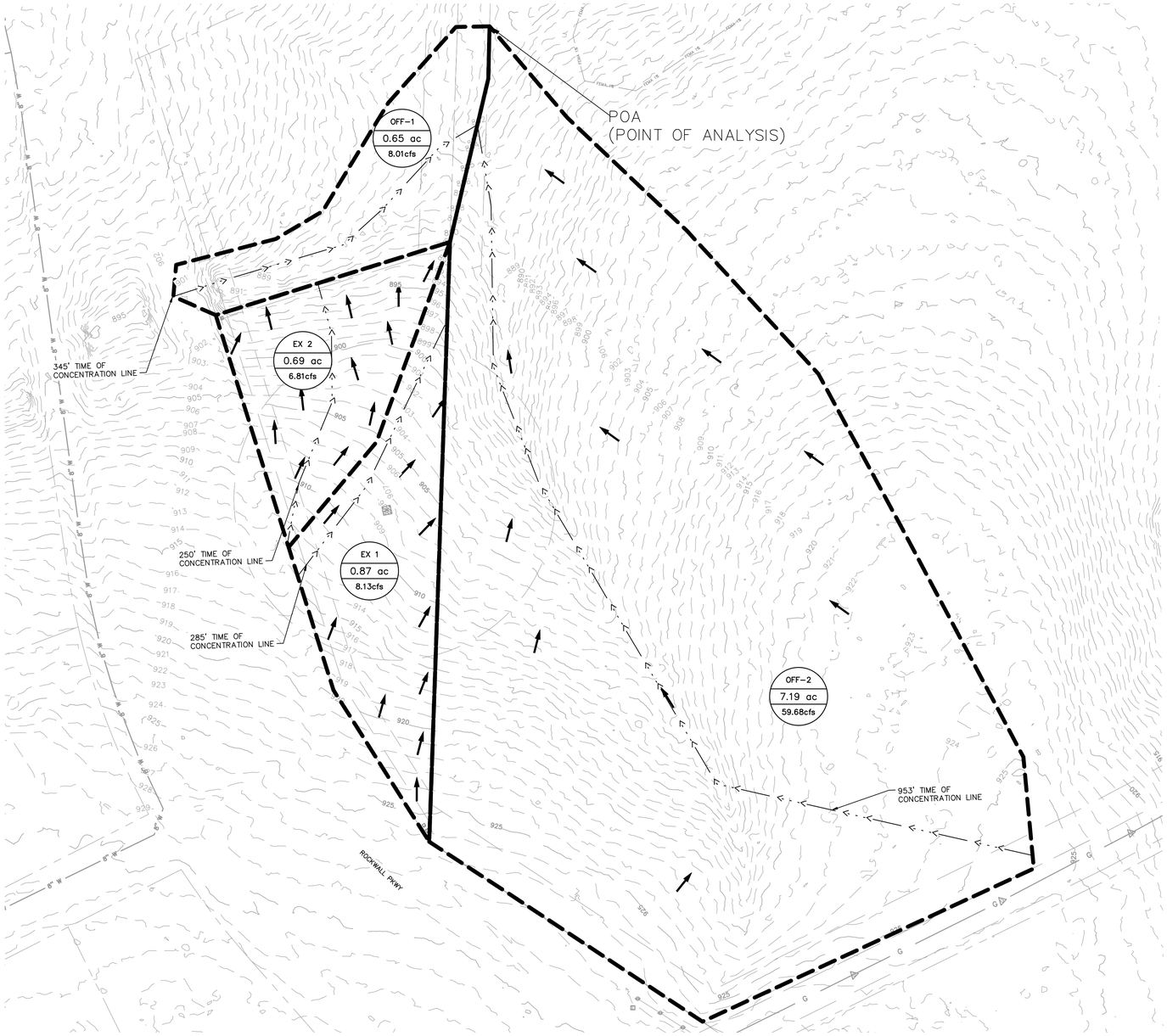
- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or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

- Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

Below grade concrete washout facilities are typical. These consist of a lined excavation sufficiently large to hold expected volume of washout material. Above grade facilities are used if excavation is not practical. Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this section, with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.

When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

Attachment G
Drainage Area Map

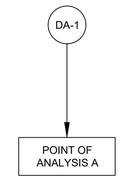


GRAPHIC SCALE IN FEET
0 30 60 120

LEGEND

- EXISTING 5' CONTOUR (800)
- EXISTING 1' CONTOUR (801)
- PROPOSED 5' CONTOUR (800)
- PROPOSED 1' CONTOUR (801)
- FFE = 582.50 — PROPOSED FINISHED FLOOR OR TOP OF SLAB ELEVATION
- FLOW LINE
- DRAINAGE BOUNDARY
- FLOW ARROWS
- EX-# / #.##ac / #.##cfs — AREA TAG, AREA ACREAGE, Q100 FLOW IN CFS

EXISTING CONDITIONS FLOW DIAGRAM



EXISTING DRAINAGE AREA CALCULATIONS - SCS METHOD

DRAINAGE AREA	AREA (ac.)	IMPERVIOUS COVER (%)	CN-VALUE (IMPERVIOUS)	PERVIOUS COVER (%)	CN-VALUE (PERVIOUS)	CN (COMPOSITE)	TC (MIN)	Q_2 (CFS)	Q_{10} (CFS)	Q_{25} (CFS)	Q_{100} (CFS)
EX-1	0.87	0.14%	98	100%	80	80.02	10.54	1.74	4.41	5.81	8.13
EX-2	0.69	0%	98	100%	80	80.00	9.68	1.39	3.59	4.80	6.81
OFF-1	0.65	0%	98	100%	80	80.00	5.00	1.53	4.31	5.70	8.01
OFF-2	7.19	0%	98	100%	80	80.00	16.65	12.11	31.62	42.15	59.68
							POA	16.77	43.93	58.46	82.63

TIME OF CONCENTRATION CALCULATIONS

SHEET FLOW		SHALLOW CONCENTRATED FLOW		SHALLOW CONCENTRATED FLOW		CHANNEL FLOW	
EX-1							
n=	0.300	paved?	NO	paved?		v(fps)=	
S (ft/ ft)=	0.060	S (ft/ft)=	0.059	S (ft/ft)=		L (ft)=	0
L (ft)=	100	L (ft)=	185	L (ft)=			
T_{t1}=	9.759	T_{t2}=	0.784	T_{t3}=	0.000	T_{t4}=	0.000
Total TC =	10.54 minutes						
SHEET FLOW		**SHALLOW CONCENTRATED FLOW**		**SHALLOW CONCENTRATED FLOW**		**CHANNEL FLOW**	
EX-2							
n=	0.300	paved?	NO	paved?		v(fps)=	
S (ft/ ft)=	0.070	S (ft/ft)=	0.093	S (ft/ft)=		L (ft)=	
L (ft)=	100	L (ft)=	150	L (ft)=			
T_{t1}=	9.176	T_{t2}=	0.507	T_{t3}=	0.000	T_{t4}=	0.000
Total TC =	9.68 minutes						
SHEET FLOW		**SHALLOW CONCENTRATED FLOW**		**SHALLOW CONCENTRATED FLOW**		**CHANNEL FLOW**	
OFF-1							
n=	0.400	paved?		paved?		v(fps)=	6.10
S (ft/ ft)=	0.000	S (ft/ft)=		S (ft/ft)=		L (ft)=	345
L (ft)=	0	L (ft)=		L (ft)=			
T_{t1}=	0.000	T_{t2}=	0.000	T_{t3}=	0.000	T_{t4}=	0.943
Total TC =	5.00 minutes						
SHEET FLOW		**SHALLOW CONCENTRATED FLOW**		**SHALLOW CONCENTRATED FLOW**		**CHANNEL FLOW**	
OFF-2							
n=	0.300	paved?	NO	paved?		v(fps)=	9.52
S (ft/ ft)=	0.022	S (ft/ft)=	0.064	S (ft/ft)=		L (ft)=	653
L (ft)=	100	L (ft)=	200	L (ft)=			
T_{t1}=	14.686	T_{t2}=	0.817	T_{t3}=	0.000	T_{t4}=	1.143
Total TC =	16.65 minutes						

Soil Type	Land Use		CN	Weighted CN
DRAINAGE ID #				
D	Impervious Cover	0%	98	80.025
	Brush - Weed Grass (Fair Condition	100%	80	

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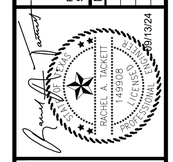

KT WATER SYSTEM
PUMP STATION #1

TEXAS WATER COMPANY

EXISTING DRAINAGE AREA MAPS (SHEET 1 OF 2)

DATE: SEPTEMBER 2024
DESIGN: RAT
DRAWN: LEG
CHECKED: SRM
KHA NO.: 069277513

SHEET
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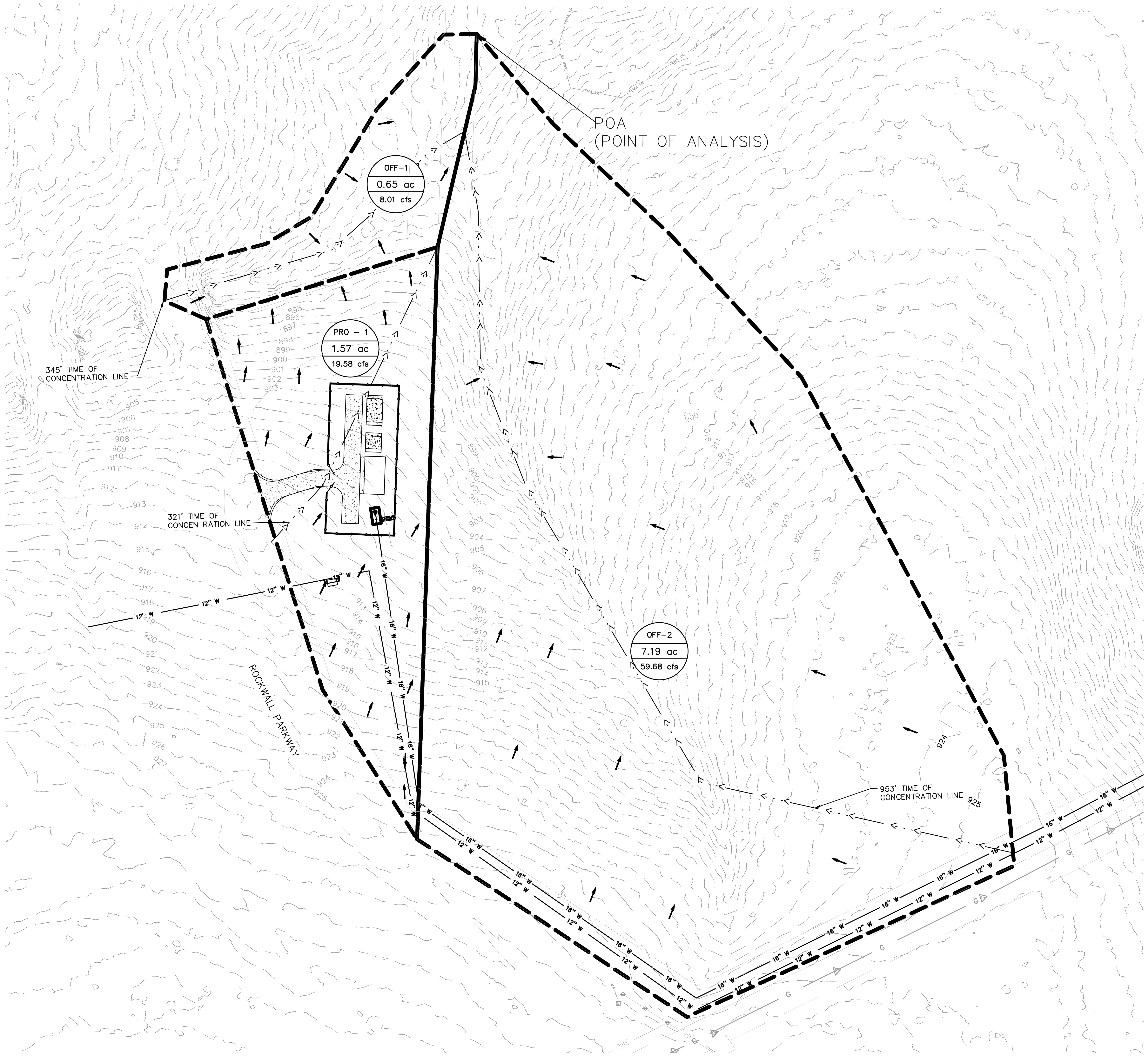
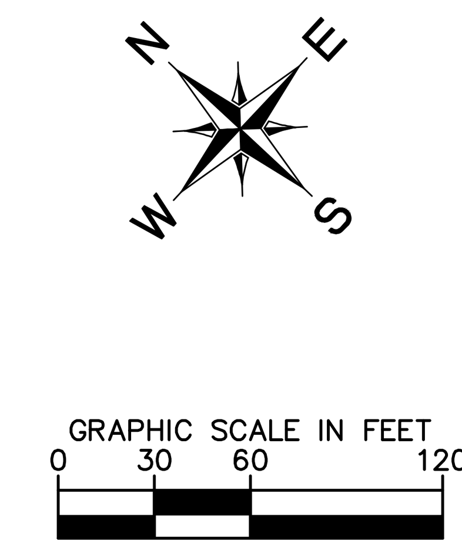
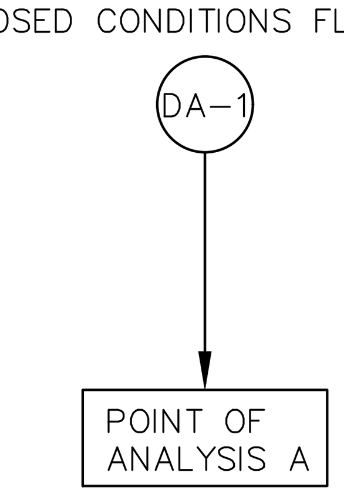




LEGEND

800	EXISTING 5' CONTOUR
801	EXISTING 1' CONTOUR
800	PROPOSED 5' CONTOUR
801	PROPOSED 1' CONTOUR
FFE = 582.50	PROPOSED FINISHED FLOOR OR TOP OF SLAB ELEVATION
	FLOW LINE
	DRAINAGE BOUNDARY
	FLOW ARROWS
PRO-# / #.## ac / #.## cfs	AREA TAG / AREA ACREAGE / Q100 FLOW IN CFS

PROPOSED CONDITIONS FLOW DIAGRAM



Soil Type	Land Use		CN	Weighted CN
DRAINAGE ID #				
D	Impervious Cover	7%	98	81.33
	Brush - Weed Grass (Fair Condition	93%	80	

TIME OF CONCENTRATION CALCULATIONS

SHEET FLOW		SHALLOW CONCENTRATED FLOW		SHALLOW CONCENTRATED FLOW		CHANNEL FLOW	
PRO - 1							
n=	0.016	paved?	YES	paved?		v(fps)=	0.00
S (ft/ ft)=	0.000	S (ft/ft)=	0.059	S (ft/ft)=		L (ft)=	0
L (ft)=	0	L (ft)=	321	L (ft)=			
T_{t1}=	0.000	T_{t2}=	1.082	T_{t3}=	0.000	T_{t4}=	0.000
Total TC =	5.00 minutes						

SHEET FLOW		SHALLOW CONCENTRATED FLOW		SHALLOW CONCENTRATED FLOW		CHANNEL FLOW	
OFF - 1							
n=	0.400	paved?	YES	paved?		v(fps)=	
S (ft/ ft)=	0.000	S (ft/ft)=		S (ft/ft)=		L (ft)=	
L (ft)=	0	L (ft)=		L (ft)=			
T_{t1}=	0.000	T_{t2}=	0.000	T_{t3}=	0.000	T_{t4}=	0.000
Total TC =	5.00 minutes						

SHEET FLOW		SHALLOW CONCENTRATED FLOW		SHALLOW CONCENTRATED FLOW		CHANNEL FLOW	
OFF -2							
n=	0.300	paved?	NO	paved?		v(fps)=	9.52
S (ft/ ft)=	0.022	S (ft/ft)=	0.064	S (ft/ft)=		L (ft)=	653.00
L (ft)=	100	L (ft)=	200	L (ft)=			
T_{t1}=	14.686	T_{t2}=	0.817	T_{t3}=	0.000	T_{t4}=	1.143
Total TC =	16.65 minutes						

PROPOSED DRAINAGE AREA CALCULATIONS - SCS METHOD

DRAINAGE AREA	AREA (ac.)	IMPERVIOUS COVER (%)	CN-VALUE (IMPERVIOUS)	PERVIOUS COVER (%)	CN-VALUE (PERVIOUS)	CN (COMPOSITE)	TC (MIN)	Q_2 (CFS)	Q_{10} (CFS)	Q_{25} (CFS)	Q_{100} (CFS)
PRO - 1	1.57	7%	98	93%	80	81.3	5.00	3.98	10.70	14.05	19.58
OFF - 1	0.65	0%	98	100%	80	80.0	5.00	1.53	4.31	5.70	8.01
OFF -2	7.19	0%	98	100%	80	80.0	16.65	12.11	31.62	42.15	59.68
							POA	17.62	46.63	61.90	87.27

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KT WATER SYSTEM PUMP STATION #1

TEXAS WATER COMPANY

PROPOSED DRAINAGE AREA MAPS (SHEET 1 OF 2)

DATE:	SEPTEMBER 2024
DESIGN:	RAT
DRAWN:	LEG
CHECKED:	SRM
KHA NO.:	069277513

SHEET

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Attachment I
Inspection and Maintenance for BMPs

Inspection and Maintenance for BMPs

Personnel Responsible for Inspections

The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification. Documentation of the inspector's qualifications is to be included in the attached Inspector Qualifications Log.

Inspection Schedule

The primary operator is required to choose one of the two inspections listed below.

Option 1: Once every seven calendar days. If this alternative schedule is developed, then the inspection must occur regardless of whether or not there has been a rainfall event since the previous inspection.

Option 2: Once every 14 calendar days and within 24 hours of the end of a storm event of two inches or greater.

The inspections may occur on either schedule provided that documentation reflects the current schedule and that any changes to the schedule are conducted in accordance with the following provisions: the schedule may be changed a maximum of one time each month, the schedule change must be implemented at the beginning of a calendar month, and the reason for the schedule change must be documented (e.g., end of “dry” season and beginning of “wet” season).

If option 2 is the chosen frequency of inspections a rain gauge must be properly maintained on site or the storm event information from a weather station that is representative of the site location. For any day of rainfall during normal business hours that measures 0.25 inches or greater, proper documentation of the total rainfall measured for that day must be recorded.
Personnel provided by the permittee must inspect:

- disturbed areas of the construction site that have not been finally stabilized;
- areas used for storage of materials that are exposed to precipitation;
- structural controls (for evidence of, or the potential for, pollutants entering the drainage system);
- sediment and erosion control measures identified in the SWP3 (to ensure they are operating correctly); and
- locations where vehicles enter or exit the site (for evidence of off-site sediment tracking).

Reductions in Inspection Frequency

Where sites have been finally or temporarily stabilized or where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), inspections must be conducted at least once every month. In arid, semi-arid, or drought-stricken areas, inspections must be conducted at least once every month and within 24 hours after the end of a storm event of 0.5 inches or greater. A record of the total rainfall measured, as well as the approximate beginning and ending dates of winter or drought conditions resulting in monthly frequency of inspections in the attached Rain Gauge Log.

In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.

Inspection Report Forms

Use the Inspection Report Forms given as a checklist to ensure that all required areas of the construction site are addressed. There is space to document the inspector’s name as well as when the inspections regularly take place. The tables will document that the required area was inspected. (If there were any areas of concern, briefly describe them in this space with a more detailed description in the narrative section. Use the last table to document any discharges found during the inspections).

Describe how effective the installed BMPs are performing. Describe any BMP failures that were noted during the investigation and describe any maintenance required due to the failure. If new BMPs are needed as the construction site changes, the inspector can use the space at the bottom of the section to list BMPs to be implemented before the next inspection.

Describe the inspector's qualifications, how the inspection was conducted, and describe any areas of non-compliance in detail. If an inspection report does not identify any incidents of non-compliance, then it must contain a certifying signature stating that the facility or site is in compliance. The report must be signed by a person and in a manner required by 30 TAC 305.128. There is space at the end of the form to allow for this certifying signature.

Whenever an inspection shows that BMP modifications are needed to better control pollutants in runoff, the changes must be completed within seven calendar days following the inspection. If existing BMPs are modified or if additional BMPs are needed, you must describe your implementation schedule, and wherever possible, make the required BMP changes before the next storm event.

The Inspection Report Form functions as the required report and must be signed in accordance with TCEQ rules at 30 TAC 305.128.

Corrective Action

Personnel Responsible for Corrective Actions

Both Primary and Secondary Operators are responsible for maintaining all necessary Corrective Actions. If an individual is specifically identified as the responsible party for modifying the contact information for that individual should be documented in the attached Inspector Qualifications Log.

Corrective Action Forms

The Temporary BMPs must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in the attached forms and wherever possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable. Actions taken as a result of inspections must be properly documented by completing the corrective action forms given.

Maintenance

Below are some maintenance practices to be used to maintain erosion and sediment controls:

- All measures will be maintained in good working order. The operator should correct any damage or deficiencies as soon as practicable after the inspection, but in no case later than seven (7) calendar days after the inspection.
- 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). See Attachment A: Spill Response Actions.
- BMP Maintenance (as applicable)
- For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.
- Silt fence will be inspected for depth of sediment, tears, to see of the fabric is securely attached tthe fence posts, and to see that the fence posts are firmly in the ground.

- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- If sediment escapes the site, accumulations must be removed at a frequency that minimizes off-site impacts, and prior to the next rain event, if feasible. If the permittee does not own or operate the off-site conveyance, then the permittee must to work with the owner or operator of the property to remove the sediment.
- Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.

To maintain the above practices, the following will be performed:

- Maintenance and repairs will be conducted before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. Following an inspection, deficiencies should be corrected no later than seven (7) calendar days after the inspection.

BMP-Specific Inspection and Maintenance Schedules

Temporary Vegetation

- Temporary vegetation should be inspected weekly and after each rain event to locate and repair any erosion.
- Erosion from storms or other damage should be repaired as soon as practical by regrading the area and applying new seed.
- If the vegetated cover is less than 80%, the area should be reseeded.

Hydraulic Mulch

- Mulched areas should be inspected weekly and after each rain event to locate and repair any damage.
- Areas damaged by storms or normal construction activities should be regraded and hydraulic mulch reapplied as soon as practical.

Construction Entrance/Exit

- The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.

- When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Silt Fence

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

Inspector Qualifications Log*

Inspector Name: ______________________________
Qualifications (Check as appropriate and provide description):
□ Training Course ______________________________
□ Supervised Experience ______________________________
□ Other ______________________________

Inspector Name: ______________________________
Qualifications (Check as appropriate and provide description):
□ Training Course ______________________________
□ Supervised Experience ______________________________
□ Other ______________________________

Inspector Name: ______________________________
Qualifications (Check as appropriate and provide description):
□ Training Course ______________________________
□ Supervised Experience ______________________________
□ Other ______________________________

Inspector Name: ______________________________
Qualifications (Check as appropriate and provide description):
□ Training Course ______________________________
□ Supervised Experience ______________________________
□ Other ______________________________

Inspector Name: ______________________________
Qualifications (Check as appropriate and provide description):
□ Training Course ______________________________
□ Supervised Experience ______________________________
□ Other ______________________________

Inspector Name: ______________________________
Qualifications (Check as appropriate and provide description):
□ Training Course ______________________________
□ Supervised Experience ______________________________
□ Other ______________________________

** The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification.*

Kimley»Horn

Amendment Log

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

Kimley»Horn

Construction Activity Sequence Log

Name of Operator	Projected dates Month/year	Activity Disturbing Soil clearing, excavation, etc.	Location on-site where activity will be conducted	Acreage being disturbed

*Construction activity sequences for linear projects may be conducted on a rolling basis. As a result, construction activities may be at different stages at different locations in the project area. The Contractor is required to complete and update the schedule and adjust as necessary.

Kimley»Horn

Stormwater Control Installation and Removal Log

Stormwater Control	Location On-Site	Installation Date	Removal Date

Kimley»Horn

Stabilization Activities Log

Date Activity Initiated	Description of Activity	Description of Stabilization Measure and Location	Date Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures Initiated

Stabilization and erosion control practices may include, but are not limited to: establishing temporary or permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, and protecting existing trees and vegetation. List practices used where they are located, when they will be implemented, and whether they are temporary (interim) or permanent.

Kimley»Horn

Inspection Frequency Log

Date	Frequency Schedule and Reason for Change

Kimley»Horn

Rain Gauge Log

Date	Location of Rain Gauge	Gauge Reading

General Information					
Name of Project		**Tracking No.**		**Inspection Date**	
Inspector Name, Title & Contact Information					
Present Phase of Construction					
Inspection Location (if multiple inspections are required, specify location where this inspection is being conducted)					

Inspection Frequency

Standard Frequency: ☐ Weekly ☐ Every 14 days and within 24 hours of a 0.25" rain

Increased Frequency: ☐ Every 7 days and within 24 hours of a 0.25" rain

Reduced Frequency:

- ☐ Once per month (for stabilized areas)
- ☐ Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought)
- ☐ Once per month (for frozen conditions where earth-disturbing activities are being conducted)

Was this inspection triggered by a 0.25" storm event? ☐ Yes ☐ No

If yes, how did you determined whether a 0.25" storm event has occurred?

☐ Rain gauge on site ☐ Weather station representative of site. Specify weather station source:

Total rainfall amount that triggered the inspection (in inches)**:**

Unsafe Conditions for Inspection

Did you determine that any portion of your site was unsafe for inspection? ☐ Yes ☐ No

If "yes", complete the following:

- Describe the conditions that prevented you from conducting the inspection in this location:

- Location(s) where conditions were found:

Condition and Effectiveness of Erosion and Sediment (E&S) Controls				
Type/Location of E&S Control	**Repairs or Other Maintenance Needed?**	**Corrective Action Required?**	**Date on Which Maintenance or Corrective Action First Identified?**	**Notes**
1.	☐Yes ☐No	☐Yes ☐No		
2.	☐Yes ☐No	☐Yes ☐No		
3.	☐Yes ☐No	☐Yes ☐No		
4.	☐Yes ☐No	☐Yes ☐No		
5.	☐Yes ☐No	☐Yes ☐No		
6.	☐Yes ☐No	☐Yes ☐No		
7.	☐Yes ☐No	☐Yes ☐No		
8.	☐Yes ☐No	☐Yes ☐No		
9.	☐Yes ☐No	☐Yes ☐No		
10.	☐Yes ☐No	☐Yes ☐No		

Condition and Effectiveness of Pollution Prevention (P2) Practices				
Type/Location of P2 Practices	**Repairs or Other Maintenance Needed?**	**Corrective Action Required?**	**Identification Date**	**Notes**
1.	☐Yes ☐No	☐Yes ☐No		
2.	☐Yes ☐No	☐Yes ☐No		
3.	☐Yes ☐No	☐Yes ☐No		
4.	☐Yes ☐No	☐Yes ☐No		
5.	☐Yes ☐No	☐Yes ☐No		
6.	☐Yes ☐No	☐Yes ☐No		
7.	☐Yes ☐No	☐Yes ☐No		
8.	☐Yes ☐No	☐Yes ☐No		
9.	☐Yes ☐No	☐Yes ☐No		
10.	☐Yes ☐No	☐Yes ☐No		

Stabilization of Exposed Soil			
Stabilization Area	**Stabilization Method**	**Have You Initiated Stabilization?**	**Notes**
1.		☐ YES ☐ NO If yes, provide date:	
2.		☐ YES ☐ NO If yes, provide date:	
3.		☐ YES ☐ NO If yes, provide date:	
4.		☐ YES ☐ NO If yes, provide date:	
5.		☐ YES ☐ NO If yes, provide date:	

Description of Discharges	
Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? ☐ Yes ☐ No **If "yes", provide the following information for each point of discharge:**	
Discharge Location	**Observations**
1.	Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? ☐ Yes ☐ No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:
2.	Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? ☐ Yes ☐ No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:
3.	Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? ☐ Yes ☐ No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:

Contractor or Subcontractor Certification and Signature
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." **Signature of Contractor or Subcontractor:** _____ **Date:** **Printed Name and Affiliation:** _____
Certification and Signature by Permittee
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." **Signature of Permittee or "Duly Authorized Representative":** _____ **Date:** **Printed Name and Affiliation:** _____

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Section A – Initial Report (Complete this section within 24 hours of discovering the condition that triggered corrective action)					
Name of Project		Tracking No.		Today's Date	
Date Problem First Discovered			Time Problem First Discovered		
Name and Contact Information of Individual Completing this Form					

What site conditions triggered the requirement to conduct corrective action:
☐ A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3
☐ The stormwater controls that have been installed and maintained are not effective enough for the discharge to meet applicable water quality standards
☐ A prohibited discharge has occurred or is occurring

Provide a description of the problem:

Deadline for completing corrective action (*Enter date that is either: (1) no more than 7 calendar days after the date you discovered the problem, or (2) if it is infeasible to complete work within the first 7 days, enter the date that is as soon as practicable following the 7th day)*:

If your estimated date of completion falls after the 7-day deadline, explain (1) why you believe it is infeasible to complete work within 7 days, and (2) why the date you have established for making the new or modified stormwater control operational is the soonest practicable timeframe:

Section B – Corrective Action Progress (Complete this section no later than 7 calendar days after discovering the condition that triggered corrective action)	
Section B.1 – Why the Problem Occurred	
Cause(s) of Problem (Add an additional sheet if necessary)	How This Was Determined and the Date You Determined the Cause
1.	1.
2.	2.
3.	3.

Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem			
List of Stormwater Control Modification(s) Needed to Correct Problem (Add an additional sheet if necessary)	Completion Date	SWPPP Update Necessary?	Notes
1.		☐Yes ☐No Date:	
2.		☐Yes ☐No Date:	
3.		☐Yes ☐No Date:	

Kimley»Horn

Section A – Initial Report (Complete this section within 24 hours of discovering the condition that triggered corrective action)					
Name of Project		Tracking No.		Today's Date	
Date Problem First Discovered			Time Problem First Discovered		
Name and Contact Information of Individual Completing this Form					

What site conditions triggered the requirement to conduct corrective action:
☐ A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3
☐ The stormwater controls that have been installed and maintained are not effective enough for the discharge to meet applicable water quality standards
☐ A prohibited discharge has occurred or is occurring

Provide a description of the problem:

Deadline for completing corrective action (*Enter date that is either: (1) no more than 7 calendar days after the date you discovered the problem, or (2) if it is infeasible to complete work within the first 7 days, enter the date that is as soon as practicable following the 7th day)*:

If your estimated date of completion falls after the 7-day deadline, explain (1) why you believe it is infeasible to complete work within 7 days, and (2) why the date you have established for making the new or modified stormwater control operational is the soonest practicable timeframe:

Section B – Corrective Action Progress (Complete this section no later than 7 calendar days after discovering the condition that triggered corrective action)	
Section B.1 – Why the Problem Occurred	
Cause(s) of Problem (Add an additional sheet if necessary)	How This Was Determined and the Date You Determined the Cause
1.	1.
2.	2.
3.	3.

Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem			
List of Stormwater Control Modification(s) Needed to Correct Problem (Add an additional sheet if necessary)	Completion Date	SWPPP Update Necessary?	Notes
1.		☐Yes ☐No Date:	
2.		☐Yes ☐No Date:	
3.		☐Yes ☐No Date:	

Contractor or Subcontractor Certification and Signature
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." **Signature of Contractor or Subcontractor:** _____ **Date:** **Printed Name and Affiliation:** _____
Certification and Signature by Permittee
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." **Signature of Permittee or "Duly Authorized Representative":** _____ **Date:** **Printed Name and Affiliation:** _____

Attachment J

Schedule of Interim and Permanent Soil Stabilization Practices

Schedule of Interim and Permanent Soil Stabilization

Construction practices shall disturb the minimal amount of existing ground cover as required for land clearing, grading, and construction activity for the shortest amount of time possible to minimize the potential of erosion and sedimentation from the site. Existing vegetation shall be maintained and left in place until it is necessary to disturb for construction activity.

Records of the following shall be maintained:

a) The dates when major grading activities occur;
b) The dates when construction activities temporarily or permanently cease on a portion of the site; and
c) The dates when stabilization measures are initiated.

Stabilization measures must be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, and except as provided in the following, must be initiated no more that fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased:

Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practical.

Where construction activity on a portion of the site is temporarily ceased and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of the site.

In arid areas (areas with an average rainfall of 0-10 inches), semiarid areas (areas with an average annual rainfall of 10 to 20 inches), and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practical.

Kimley»Horn

SECTION 7: ADDITIONAL FORMS

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

I Aundrea Williams,
Print Name
President,
Title - Owner/President/Other

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

have authorized Rachel Tackett, P.E.
Print Name of Agent/Engineer

of Kimley-Horn and Associates, Inc.
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:

Andrea Williams
Applicant's Signature

7/31/2024
Date

THE STATE OF TEXAS §

County of COMAL §

BEFORE ME, the undersigned authority, on this day personally appeared Andrea Williams 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 31st day of July, 2024.

Jake Vetterick
NOTARY PUBLIC

JAKE GILES VETTERICK
Notary Public, State of Texas
Comm. Expires 09-03-2025
Notary ID 133313190

Jake Vetterick
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 09-03-2025

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Rockwall Ranch Subdivision

Regulated Entity Location: W OF ROCKWALL PARKWAY AND SCHOENTHAL RD INTERSECTION

Name of Customer: SJWTX, Inc.

Contact Person: Aundrea Williams Phone: 408-314-9818

Customer Reference Number (if issued):CN 60296396

Regulated Entity Reference Number (if issued):RN 104256243

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

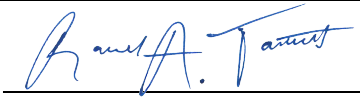
☐ Overnight Delivery to: TCEQ - Cashier

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	1 Each	$ 500
Extension of Time	Each	$

Signature:  Date: 8/27/2024

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

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 602969396		**RN 104256243**

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:*

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0800542934	12040132529		

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

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

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

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

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

15. Mailing Address:

1399 Sattler Road							
City	Canyon Lake	**State**	TX	**ZIP**	78132	**ZIP + 4**	2247

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	Aundrea.williams@txwaterco.com

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

( ) -		( ) -

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.)*

Rockwall Ranch Subdivision

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

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

25. Description to Physical Location:	W OF FM 1863 AND SCHOENTHAL RD INTERSECTION				
26. Nearest City			**State**	**Nearest ZIP Code**	
New Braunfels			TX	78130	

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	41	40.2	98	16	28.9

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

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

34. Mailing Address:	**1399 Sattler Road**							
	City	**Canyon Lake**	**State**	**TX**	**ZIP**	**78132**	**ZIP + 4**	**2247**
35. E-Mail Address:	**Aundrea.williams@txwaterco.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 726-4520		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Rachel Tackett	41. Title:	Project Engineer

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 271-6330		( ) -	Rachel.tackett@Kimley-Horn.com

SECTION V: Authorized Signature

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

Company:	SJWTX, Inc.	Job Title:	President	
Name *(In Print)*:	Aundrea Williams		Phone:	(408) 314- 9818
Signature:	*Aundrea Williams*		Date:	Jul 25, 2024

Owner Authorization Form

for Required Signature for submitting and signing an application for an Edwards Aquifer Protection Plan (Plan) and conducting regulated activities in accordance with an approved Plan.

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program
Relating to the Edwards Aquifer Rules of
Title 30 of the Texas Administrative Code
(30 TAC), Chapter 213
Effective June 1, 1999

Land Owner Authorization

I, Aundrea Williams of Texas Water Resources, LLC

Land Owner Name (Individual) | Firm (applicable to Legal Entities)

am the Owner of Record or Title Holder of the property located at:

Rockwall Ranch 1, Block 2, Lot 1

(Legal description of the property referenced in the application)

and being duly authorized under 30 TAC § 213.4(c)(2) and § 213.4(d)(1) or § 213.23(c)(2) and § 213.23(d) to submit and sign an application for a Plan, do hereby authorize:

SJWTX, Inc.

(Applicant Name / Plan Holder (Legal Entity or Individual))

to conduct:

WPAP Exception

(Description of the proposed regulated activities)

on the property described above or at:

Rockwall Ranch 1, Block 2, Lot 1

(If applicable to a precise location for the authorized regulated activities)

Land Owner Acknowledgement

I, Aundrea Williams of Texas Water Resources, LLC

Land Owner Name (Individual) | Firm (applicable to Legal Entities)

understand that while SJWTX, Inc.

Applicant Name / Plan Holder (Legal Entity or Individual)

is responsible for compliance with the approved or conditionally approved Plan and any special conditions of the approved Plan through all phases of Plan implementation,

I, Aundrea Williams of Texas Water Resources, LLC

Land Owner Name (Individual) Firm (applicable to Legal Entities)

as Owner of Record or Title Holder of the property described above, I am ultimately responsible for ensuring that compliance with the approved or conditionally approved Plan and any special conditions of the approved Plan, through all phases of Plan implementation, is achieved even if the responsibility for compliance and the right to possess and control of the property referenced in the application has been contractually assumed by another legal entity.

I, Aundrea Williams of Texas Water Resources, LLC

Land Owner Name (Individual) Firm (applicable to Legal Entities)

further understand that any failure to comply with any condition of the Executive Director's approval is a violation and is subject to administrative rule or orders and penalties as provided under 30 TAC § 213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Land Owner Signature

Aundrea Williams 9/25/24

Land Owner Signature Date

THE STATE OF § Texas

County of § Comal

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

GIVEN under my hand and seal of office on this 25th day of Sept.

VALERIE NICHOLE WERNERT
Notary Public, State of Texas
Comm. Expires 08-01-2028
Notary ID 135020894

Valerie Wernert

NOTARY PUBLIC

Valerie Wernert

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 8/01/2028

Attached: (Mark all that apply)

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

Applicant Acknowledgement

I, Aundrea Williams of SJWTX, Inc.
Applicant Name (Individual) Firm (applicable to Legal Entities)

acknowledge that Texas Water Resources, LLC
Land Owner Name (Legal Entity or Individual)

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

with the right to possess and control the property referenced in the Edwards Aquifer Protection Plan (Plan).

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

is responsible, contractually or not, for compliance with the approved or conditionally approved 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 and 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

Aundrea Williams
Applicant Signature

9/24/24
Date

THE STATE OF § Texas

County of § Comal

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

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Valerie Wernert
NOTARY PUBLIC

VALERIE NICHOLE WERNERT
Notary Public, State of Texas
Comm. Expires 08-01-2028
Notary ID 135020894

Valerie Wernert
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 08/01/2028

ASSET PURCHASE AGREEMENT

This Asset Purchase Agreement (this "Agreement") is made and entered into as of June 5, 2024, by and between Texas Water Resources, LLC, a Texas limited liability company ("Seller"), and SJWTX, Inc., a Texas corporation ("Buyer").

RECITALS

WHEREAS, Seller owns the Acquired Assets (as defined below); and

WHEREAS, Seller desires to sell the Acquired Assets to Buyer, and Buyer desires to purchase the Acquired Assets and assume the Assumed Liabilities (as defined below) from Seller, in each case on and subject to the terms and conditions set forth herein (the "Transaction").

NOW, THEREFORE, in consideration of the mutual representations, warranties, covenants and agreements, and upon the terms and conditions hereinafter set forth, the parties, intending to be legally bound hereby, do hereby agree as follows:

AGREEMENT

1. Purchase and Sale of the Acquired Assets. On and subject to the terms and conditions of this Agreement, Seller shall sell, transfer, convey, assign and deliver to Buyer, and Buyer will purchase, acquire and accept from Seller all of Seller's right, title and interest in, to and under all of the assets owned by Seller as of the Closing Date (as defined herein) (collectively, the "Acquired Assets").

2. Assignment of Contracts. Seller will assign to Buyer, and Buyer will assume, all rights and obligations of Seller in any contract entered into by Seller as of the Closing Date (as defined herein) (the "Assigned Contracts").

3. Assumption of Liabilities. Buyer will assume all of Seller's liabilities, including, without limitation, Seller's post-Closing liabilities arising out of that certain Asset Purchase Agreement, dated July 18, 2022, as amended (collectively, the "Assumed Liabilities"). At and after the Closing, subject to the terms hereof, Seller shall have no liability for the Assumed Liabilities.

4. Purchase Price. In addition to the assumption of the Assumed Liabilities, the Seller will make a payment of cash consideration in the aggregate amount of the net book value of the net assets of Seller at the time of Closing (the "Cash Purchase Price"). The Cash Purchase Price shall be paid by Buyer to Seller of immediately available funds to the bank account(s) designated by Seller.

5. Representations and Warranties of Seller and Principals. Seller represents and warrants to Buyer as follows:

(a) Seller is a corporation duly organized, validly existing and in good standing under the laws of the State of Texas.

(b) Seller has the requisite corporate power and authority to execute this Agreement and all other agreements and documents contemplated hereby to which it is party and to sell the Acquired Assets to Buyer. The execution and delivery of this Agreement by Seller and the consummation by Seller of the Transaction have been duly authorized by Seller, and no other action on the part of Seller is necessary to authorize the Transaction. This Agreement has been duly executed and delivered by Seller and constitutes the valid and binding obligation of Seller, enforceable in accordance with its terms.

(c) The execution, delivery and performance of this Agreement and the other agreements and documents contemplated hereby by Seller and the consummation of the Transaction will not (a) violate any provision of the certificate of formation or the operating agreement of Seller or (b) violate any law or order of any governmental authority by which Seller or any of its properties or assets are bound.

(d) All tax returns required to be filed by or on behalf of Seller, the Acquired Assets or the Assumed Liabilities are true, correct and complete in all respects; have been duly and timely filed in accordance with all applicable laws or extensions of time within which to file such returns have been obtained; and the income, activities, operations and transactions of Seller have been properly included and correctly reflected thereon.

(e) Seller is in compliance with all applicable laws and possesses all necessary permits relating to the ownership of the Acquired Assets in the manner in which and in the jurisdictions and places where such Acquired Assets are located.

(f) Seller owns all such Acquired Assets. Such Acquired Assets conform in all respects to all applicable laws relating to their use and operation.

(g) There are no, nor are there any threatened, judgments, proceedings, lawsuits, actions, orders or grievances before or by any governmental authority, pending or threatened against Seller or its assets.

(h) Each Assigned Contract is valid, binding and in full force and effect, and to the knowledge of Seller, there is no event or condition which has occurred or exists, which constitutes or which, with or without notice, the happening of any event and/or the passage of time, could constitute a default or breach under any such contract by Seller or any other party thereto, or could cause the acceleration of any obligation of any party thereto or give rise to any right of termination or cancellation thereof.

(i) Any intellectual property owned by Seller is registered with the applicable governmental authority and such registrations are in full force and effect and in compliance with applicable law.

(j) Other than as specifically set forth in this Agreement, Seller makes no representations or warranties to Buyer, express or implied, with respect to the Acquired Assets and the other matters described herein.

6. Representations and Warranties of Buyer. Buyer represents and warrants to Seller that:

(a) Buyer is duly organized, validly existing and in good standing under the laws of the State of Texas.

(b) Buyer has full power, capacity and authority to execute and deliver this Agreement. The execution and delivery of this Agreement by Buyer and the consummation by Buyer of the Transaction have been duly authorized by Buyer, and no other action on the part of Buyer is necessary to authorize the Transaction. This Agreement has been duly executed and delivered by Buyer and constitutes the valid and binding obligation of Buyer.

(c) The execution, delivery and performance of this Agreement and the other agreements and documents contemplated hereby by Buyer and the consummation of the Transaction will not (a) violate any provision of the articles of incorporation or bylaws of Buyer, (b) violate any law or order of any governmental authority by which Buyer or any of its properties or assets are bound, or (c) result in a violation or breach of, or constitute a default under, or create any rights of termination, cancellation or acceleration in any person with respect to any contract to which Buyer is a party or any permit of Buyer or by which any properties or assets of Buyer are bound.

(d) Buyer has funds necessary to pay the Purchase Price due herein in accordance with the terms hereof.

7. Covenants of the Parties.

(a) At the Closing, Seller shall deliver or cause to be delivered to Buyer copies of all business and accounting records; supplier, dealer, broker, distributor and customer lists; manuals; books; files; procedures; data; systems; business records; production records; advertising materials; internal governance records; and other proprietary information in the possession of Seller.

(b) Following the Closing, subject to the terms and conditions of this Agreement, if any further action is necessary in order to carry out the purposes of this Agreement, each of the parties will take such further action (including the execution and delivery of such further instruments and documents) as the other party may reasonably request.

(c) This Agreement and each party's obligation to comply with the terms of this Agreement shall continue in effect, and, subject to the terms hereof, shall be wholly and completely unaffected by the success or failure of Buyer or its business or by the continued involvement, employment, ownership, or connection to same. Neither the dissolution of Buyer or Seller, nor the sale or disposal of all of the Acquired Assets nor Buyer's ceasing of all business shall have any bearing or effect whatsoever on any party's obligation to comply with the terms of this Agreement.

8. Closing.

(a) Subject to the satisfaction or waiver of all conditions to the consummation of the transactions contemplated hereby, the closing of the Transaction (the "Closing") shall take place remotely on the date first set forth hereof (the "Closing Date"). The Closing shall be deemed to have been completed upon the satisfaction or waiver of each of the conditions set forth in this Section 8(b). The Closing shall be effective as of 12:01 a.m. Houston, Texas time on the Closing Date.

(b) The obligation of Buyer to effect the Closing shall be subject to the satisfaction of each of the following conditions at or prior to the Closing:

(i) Seller shall have executed and delivered to Buyer a Bill of Sale, Assignment and Assumption Agreement (the "Assignment") with respect to the Acquired Assets and the Assumed Liabilities;

(ii) Buyer shall have received the Cash Purchase Price; and

(iii) Buyer and Seller shall have received such other documents as such party reasonably deems necessary to effect the Transaction.

(iv) Buyer shall have received the consent of any third party required to effectuate the Transaction.

9. Tax Matters.

(a) Transfer Taxes. Any and all transfer, sales, use, purchase, value added, excise, personal property, intangible stamp, documentary, registration, business, occupation or similar taxes imposed on, or resulting from, the transfer of any Acquired Assets and all related penalties and interests (collectively "Transfer Taxes") shall be paid by Buyer. The parties hereto agree for all tax reporting purposes to report the transactions contemplated hereby in accordance with Buyer's allocation and to not take any position during the course of any audit or other proceeding inconsistent with such allocation unless required by a determination of the applicable governmental authority that is final.

(b) Bulk Sales Laws. The parties hereby waive compliance with the provisions of any tax clearance procedures, bulk sales, bulk transfer or similar laws of any jurisdiction that may otherwise be applicable with respect to the sale of any or all of the Acquired Assets to Buyer.

10. Governing Law; Exclusive Venue. This Agreement shall be construed, enforced, and governed by the internal laws of the State of Texas (without regard to its choice of law principles). The parties hereby agree that any litigation arising hereunder shall be filed in and resolved exclusively in the federal or state courts located in Harris County, Texas. Each party hereby irrevocably consents to the personal jurisdiction of such courts and agree that venue shall be exclusive with such courts.

11. Entire Agreement. This Agreement constitutes the entire agreement and supersedes all prior agreements and understandings, both written and oral, between the parties hereto with respect to the subject matter hereof, and no party shall be liable or bound to the other in any manner by any representations or warranties not set forth herein.

12. Successors and Assigns. The terms and conditions of this Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective successors and permitted assigns.

13. Counterparts. This Agreement may be signed in any number of counterparts, each of which shall be an original, with the same effect as if the signatures thereto and hereto were upon the same instrument. Counterparts delivered by electronic transmission shall be deemed to be originally signed counterparts.

14. Modification and Waiver. Any of the terms or conditions of this Agreement may be waived in writing at any time by the party which is entitled to the benefits thereof, and this Agreement may be modified or amended by a written instrument executed by all parties hereto. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing by all of the parties hereto. No waiver of any of the provisions of this Agreement shall be deemed or shall constitute a waiver of any other provision hereof (whether or not similar) nor shall such waiver constitute a continuing waiver.

15. Invalid Provisions. If any term or other provision of this Agreement is invalid, illegal or incapable of being enforced by any law or public policy, all other terms and provisions of this Agreement shall nevertheless remain in full force and effect so long as the economic or legal substance of the transactions contemplated hereby is not affected in any manner materially adverse to any party.

16. Third Party Beneficiaries. Except as otherwise specifically provided in Section 12, no individual or firm, corporation, partnership, or other entity shall be a third-party beneficiary of the representations, warranties, covenants, and agreements made by any party hereto.

17. Certain Interpretive Matters. Unless the context otherwise requires, (a) "or" is disjunctive but not necessarily exclusive, (b) words in the singular include the plural and vice versa, (c) words of any gender include each other gender, (d) the terms "hereof," "herein," "hereby" and derivative or similar words refer to this entire Agreement, (e) unless otherwise specified, each accounting term not otherwise defined herein has the meaning assigned to it in accordance with GAAP and (f) whenever the words "include", "includes" or "including" are used in this Agreement, they shall be deemed to be followed by the words "without limitation", whether or not they are in fact following by those words or words of like import. The headings of the articles and sections of this Agreement are inserted for convenience only and shall not be deemed to constitute part of this Agreement or to affect the construction hereof. No provision of this Agreement will be interpreted in favor of, or against, either of the parties hereto by reason of the extent to which either such party or its counsel participated in the drafting thereof or by reason of the extent to which any such provision is inconsistent with any prior draft hereof or thereof.

[Signature page follows]

IN WITNESS WHEREOF, the parties have executed and delivered this Agreement as of the date first above written.

Seller: **Texas Water Resources, LLC**	**Buyer:** **SJWTX, Inc.**
DocuSigned by: By: _____ C8BED1C2D78A477...	DocuSigned by: By: Aundrea Williams 201507EB04AD4BC...
Name: Andrew F. Walters Title: Chief Financial Officer and Treasurer	Name: Aundrea Williams Title: President