



**RECHARGE AND TRANSITION ZONE
EXCEPTION REQUEST**

FOR

**DRIFTWOOD DIESEL
1185 FM 1626
BUDA, HAYS COUNTY, TEXAS 78610**

Prepared For:

**DRIFTWOOD DIESEL, LLC
P.O. BOX 1023
BUDA, TX 78610**

Prepared By:

**FLAKE ENGINEERING, PLLC
201 GROVE LANE, BUDA, TX 78610
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TBPE NO. F-22188**

**OCTOBER 2023
Project #: 033-001**





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I.

**EDWARDS AQUIFER APPLICATION COVER PAGE
(TCEQ-20705)**

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: Driftwood Diesel LLC				2. Regulated Entity No.: RN109814004					
3. Customer Name: Driftwood Diesel LLC				4. Customer No.: CN605379189					
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):		1.50		
9. Application Fee:	\$500	10. Permanent BMP(s):			Grassy Swale				
11. SCS (Linear Ft.):	n/a	12. AST/UST (No. Tanks):			n/a				
13. County:	Hays	14. Watershed:			Onion Creek				

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.

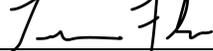
Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	✓	—	—
Region (1 req.)	✓	—	—
County(ies)	✓	—	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input checked="" type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity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

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Trinity-Glen Rose	<input type="checkbox"/> Edwards Aquifer Authority	<input type="checkbox"/> Kinney	<input type="checkbox"/> EAA <input type="checkbox"/> Medina	<input type="checkbox"/> EAA <input type="checkbox"/> Uvalde
City(ies) Jurisdiction	<input type="checkbox"/> Castle Hills <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Helotes <input type="checkbox"/> Hill Country Village <input type="checkbox"/> Hollywood Park <input type="checkbox"/> San Antonio (SAWS) <input type="checkbox"/> Shavano Park	<input type="checkbox"/> Bulverde <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Garden Ridge <input type="checkbox"/> New Braunfels <input type="checkbox"/> Schertz	NA	<input type="checkbox"/> 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.

Travis Flake, Flake Engineering

Print Name of Customer/Authorized Agent



10/11/2023

Signature of Customer/Authorized Agent

Date

****FOR TCEQ INTERNAL USE ONLY****

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



II.

**GENERAL INFORMATION FORM
(TCEQ-0587)**

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: Travis Flake, Flake Engineering

Date: 10-11-23

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Driftwood Diesel LLC
2. County: HAYS
3. Stream Basin: Onion Creek
4. Groundwater Conservation District (If applicable): Barton Springs/Edwards Aquifer
5. Edwards Aquifer Zone:
 Recharge Zone
 Transition Zone
6. Plan Type:
 WPAP
 SCS
 Modification
 AST
 UST
 Exception Request

7. Customer (Applicant):

Contact Person: Chris Rickman

Entity: Driftwood Diesel, LLC

Mailing Address: 1185 FM 1626

City, State: Buda, TX

Zip: 78610

Telephone: 512-517-8846

FAX: n/a

Email Address: chris@driftwooddiesel.com

8. Agent/Representative (If any):

Contact Person: Travis Flake

Entity: Flake Engineering, PLLC

Mailing Address: 201 Grove Ln

City, State: Buda, TX

Zip: 78610

Telephone: 512-468-6248

FAX: n/a

Email Address: travis@flakeengineering.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 Buda.

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.

1185 FM 1626, Buda, Texas 78610

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: July 2017

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.

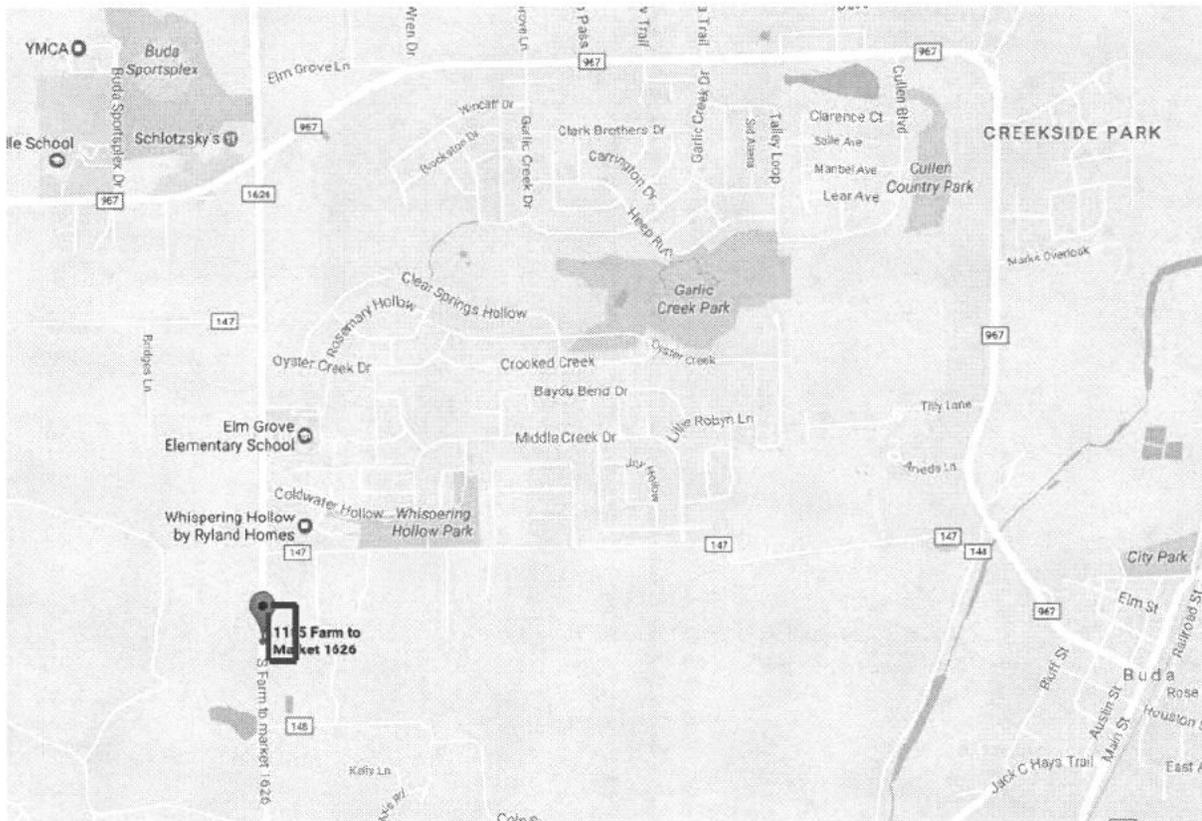
Administrative Information

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.

**GENERAL INFORMATION SECTION
ATTACHMENT A**

ROAD/LOCATION MAP



Road Map

*1185 FM 1626,
Buda, TX 78610*

**GENERAL INFORMATION SECTION
ATTACHMENT B**

USGS/EDWARDS RECHARGE ZONE MAP

GENERAL INFORMATION SECTION
ATTACHMENT C
PROJECT DESCRIPTION

Driftwood Diesel is an existing commercial development on a 1.50 acre lot within the extra-territorial jurisdiction of Buda in Hays County. It is located at 1185 FM 1626 and currently operates as an auto repair facility. The property is located within the Onion Creek watershed and is within the Edwards Aquifer Recharge Zone as defined by the Texas Commission on Environmental Quality (TCEQ).

The proposed activity includes the demolition of existing structures (a single family residence and the foundation of a barn which has burned down) on-site north of the facility and the construction of an additional garage in their place. The existing site was constructed in 2017-2018 under Edwards Aquifer Protection Program ID No. 111000708. This included a Watershed Pollution Abatement Plan for the proposed 0.34 acres (22.7%) of impervious cover on-site with permanent treatment provided by a grassy swale.

The proposed improvements would not increase the proposed impervious cover from this 0.34 acres and do not include any modifications to the existing permanent BMP. All proposed impervious cover will continue to be directed to and through this BMP as previously designed. The proposed improvements does include pervious paving within this area.



III.

**GEOLOGIC ASSESSMENT FORM
(TCEQ-0585)**

ESCARPMENT ENVIRONMENTAL

Geologic & Environmental Consulting for Land Development

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

**1.5 acre property
at
1185 South FM 1626
Buda, Hays County, Texas**

Prepared for:

**Texas Custom Solutions LLC
Buda, Texas**

Prepared By:

**Escarpment Environmental
Austin, Texas**

**Escarpment Job E17006-GA
14 June 2017**

**700 LAVACA, SUITE 1400 • AUSTIN, TEXAS • 78701
PHONE: 512-320-9122 • FAX: 512-597-0772
WWW.ESCARPMENTENV.COM**

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

REGULATED ENTITY NAME: 1.5- acre property at 1185 South FM 1626, Buda, Hays County, Texas

TYPE OF PROJECT: WPAP AST SCS UST

LOCATION OF PROJECT: Recharge Zone Transition Zone Contributing Zone
 Contributing Zone within Transition Zone

PROJECT INFORMATION

- Geologic or manmade features are described and evaluated using the attached **GEOLOGIC ASSESSMENT TABLE** provided in Attachment 1.
- 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 (Attachment 3) or a separate soils map (Attachment 1, Figure 3).

TABLE 1 Table of Soils

Soil Units, Infiltration Characteristics & Thickness		
Soil Name	Group*	Thickness (feet)
Anhalt clay, 0 to 1 % slopes (AnB)	D	2.3
Krum clay, 3 to 5% slopes (KrC)	C	1.8
Rumple-Comfort Association - undulating (RUD)	C	1

*** 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.

ESCARPMENT ENVIRONMENTAL

Geologic & Environmental Consulting for Land Development

3. A **STRATIGRAPHIC COLUMN** is attached at the end of this form in the additional comments section and shows formations, members, and thicknesses. The outcropping unit should be at the top of the stratigraphic column.
4. A **NARRATIVE DESCRIPTION OF SITE-SPECIFIC Geology** is attached at the end of this form. The description must include a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure, and karstic characteristics of the site.
5. Appropriate **SITE GEOLOGIC MAP(S)** is attached in Attachment 2:

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" = 20'
Site Geologic Map Scale 1" = 20'
Site Soils Map Scale (if more than 1 soil type) 1" = 100'

6. Method of collecting positional data:
 Global Positioning System (GPS) technology.
 Other method(s).
7. The project site is shown and labeled on the Site Geologic Map (Attachment 2).
8. Surface geologic units are shown and labeled on the Site Geologic Map (Attachment 2).
9. Geologic or manmade features were discovered on the project site during the field investigation. Additional comments are provided in the Additional Comments. The features are described in the attached Geologic Assessment Table (Attachment 1). Features are shown and labeled on the Site Geologic Map (Attachment 2).
- Geologic or manmade features were not discovered on the project site during the field investigation.
10. The Recharge Zone boundary is shown and labeled, if appropriate.
11. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.):
 There are 1 (#) wells and 0 test wells present on the project site, and the locations are shown and labeled. (Check all of the following that apply.)
 The test well is not in use and has 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.

Administrative Information

12. One (1) original and three (3) copies of the completed assessment have been provided.

Date(s) Geologic Assessment was performed:

20 May 2017

Date(s)

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 213.

For Escarpment Environmental

Kristin Miller White, PG

(512) 415-6986

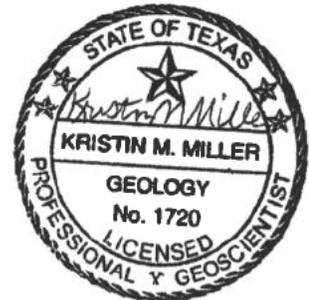
(512) 597-0772

Print Name of Geologist

Mobile Phone

Fax

The seal appearing on this document was authorized by Kristin M. Miller, P.G. 1720 on June 14, 2017.



Kristin M. Miller

Signature of Geologist

6/14/2017

Date

Representing: Escarpment Environmental, Austin, Texas

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact TCEQ at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

TCEQ Geologic Assessment

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3	Site Geologic Map

26 May 2017

Additional Comments to Geologic Assessment

**1.5 acre property
at
1185 South FM 1626
Buda, Hays County, Texas
Escarpment Job 170006-GA**

1.0 Introduction and Methodology

This report and the planned abatement measures are intended to fulfill Texas Commission on Environmental Quality (TCEQ) reporting requirements according to TCEQ Instructions to Geologists for completing Geologic Assessments within the Edwards Aquifer Recharge Zone (TCEQ, 2004).

Escarpment Environmental conducted the necessary field and literature studies. Escarpment conducted the field reconnaissance on 20 May 2017. This geologic assessment includes a review of the site for potential aquifer recharge and documentation of general geologic characteristics for the subject site.

2.0 Site Description

The subject site is located at 1185 South FM 1626, Buda, Hays County, Texas. The current use of the subject site is single-family rural residential. A site location map is provided as Figure 1. A site boundary and topographic map is provided on Figure 2. Soils and an aerial photograph are provided on Figure 3. Site geology is shown on Figure 4. Following is a description of environmental setting characteristics.

2.1 Land Use

Land use on the subject site consists of single-family residential and for livestock. Surrounding land use is primarily single-family residential.

2.2 Vegetation

Vegetation is characterized as landscaped and cleared pasture with scattered sugarberry (*Celtis laevigata*) trees. Groundcover consist of assorted grasses with scattered twisted leaf yucca (*Yucca rupicola*), and prickly pear cactus (*Opuntia* sp.).

2.3 Physiography and Surface Drainage

The subject site is within the Onion Creek Watershed, as classified by the City of Austin (COA, 2017). Topographically, the site ranges from approximately 754 to 768 feet above mean sea level. Drainage occurs primarily by overland sheet flow from north to south. Overland sheet flow flows into a drainage culvert along FM 1626 and eventually into Onion Creek. None of the subject site is within the 100-year floodplain (FEMA, 2006).

The subject site is situated within the Live Oak-Ashe Juniper Woods vegetation region of Texas (McMahan et al., 1984). The subject site is within the Blackland Prairie physiographic region (Godfrey, et al. 1973). The subject site is situated within the Blackland Prairie vegetation region of Texas (Thomas & Gould, 1975).

The subject site is within the Edwards Plateau Region of Texas (Wermund, 1996). The Edwards Plateau region is in west central Texas and is commonly known as the Hill Country. It is bounded on the east and south by the Balcones Fault. To the north it extends to the Western Cross Timbers of the Oak Woods and Prairies region and grades into the Plains regions. The Llano Uplift region also forms part of the northern border (McMahan et.al 1984).

2.4 Soils

As shown on Figure 3, the subject site is mapped within the Comfort-Rumple-Rock Outcrop soil association and the following soil types (Batte, 1984 and NRCS *Soil* Survey Staff, 2017). A soil table is provided below and on Page 1 of the TCEQ Geologic Assessment form.

TABLE 1 Table of Soils

Soil Series Unit Names, Infiltration Characteristics & Thickness		
Soil Series Unit Name & Subgroup**	Group*	Thickness (feet)
Anhalt clay, 0 to 1 % slopes (AnB)	D	2.3
Krum clay, 3 to 5% slopes (KrC)	C	1.8
Rumple-Comfort Association – undulating (RUD)	C	1

2.5 Edwards Aquifer Zone

The subject site is mapped within the Edwards Aquifer Recharge Zones as shown on the TCEQ Recharge Zone Boundary Maps (TCEQ, 2005).

The Recharge Zone is known as the area where the stratigraphic units constituting the Edwards Aquifer are exposed at the surface and where water may filter in the aquifer through permeable features such as cracks, fissures, caves and other openings in these layers (TCEQ, 2008). The Recharge Zone includes other geologic formations in proximity to the Edwards Aquifer, where caves, sinkholes, faults, fractures, or other permeable features may create a potential for recharge of surface waters into the Edwards Aquifer (TCEQ, 2008). The Recharge Zone is identified as that area designated as such on official maps located in the appropriate regional office and groundwater conservation districts. TCEQ Edwards Aquifer Rules (30 TAC 213) require a Water Pollution Abatement Plan and Geologic Assessment for regulated activities within the Edwards Aquifer Recharge Zone (or areas draining toward it).

2.6 Geology

Field investigation and review of existing literature shows the site is underlain by the Del Rio Clay Formation. Del Rio Clay overlies the Georgetown Formation and forms the upper confining unit of the Edwards Aquifer (Garner and Young, 1976, Small et al., 1996). The Del Rio Formation is described as described as dark bluish-gray, calcareous, pyritic, bentonitic and fossiliferous clay, with some thin, lenticular, calcareous, siltstone beds (shale) (Garner et al., 1976, Rose, 1972). It is about 40 to 50 feet thick in Hays County (Hanson and Small, 1995). The Del Rio is described as having no porosity, low permeability, and no cavern development (Garner and Young, 1976, Small et al., 1996). The primary marker fossils for Del Rio Clay are pecten-type fossil clams and an abundance of ram's horns also known as the fossilized oyster *Ilymatogyra arietina* (formerly *Exogyra arietina*) (Rose, 1972).

Table 2 illustrates the deposition of the geologic formations underlying the proposed project limits in geologic time.

TABLE 2 Geologic Stratigraphic Column

System	Hydrologic Subdivision	Group or Formation	Member	Thickness in feet	Symbol	Description
Cretaceous	Upper Confining Unit	Del Rio Clay		40 to 50	Kdr	Dark gray to olive brown clay, pyritic, gypsiferous, calcareous clay with abundant "ram's horns," and fossilized oyster <i>Ilymatogyra arietina</i> (formerly <i>Exogyra arietina</i>). No porosity or permeability. Primary upper confining unit of Edwards Aquifer.
Cretaceous	Top of Aquifer	Georgetown Formation		40 to 60	Kgt	Reddish-brown, gray to light tan, interbedded, nodular-weathering, hard, fine-grained limestone, marly limestone, and marl, containing abundant fossil shells <i>Waconella wacoensis</i> . Low porosity and permeability. Forms solution cavities, but does not typically form caves. Considered top of the Edwards aquifer (TCEQ, 2008).

2.7 Water Well Search

One water well is located in the barn (Figure 4). A review of the records of the TCEQ and the Texas Water Development Board (TWDB) revealed one water well record (5858125) in the vicinity of the site (TWDB, 2017).

If a well is intended for use, it must comply with 16 TAC § 76. Abandoned wells must be capped or properly abandoned according to the Administrative Rules of the Texas Department of Licensing and Regulation, 16 Texas Administrative Code (TAC), Chapter 76, effective 3 January 1999. A plugging report must be submitted (by a licensed water well driller, pump installer, or landowner) to the Texas Department of Licensing and Regulation, Water Well Driller's Program, PO Box 12157, Austin, TX 78711 or submitted online via the State of Texas Well Report Submission and Retrieval System located at <http://134.125.70.235/mainpage.asp>. This site is within the Barton Springs Zone, therefore, Barton Springs/Edwards Aquifer Conservation District requires a plugging plan, application, and refundable \$50 plugging report deposit.

3.0 Executive Summary

No evidence was found of potential caves or significant sensitive recharge features.

4.0 References

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Garner, L. E., and K. P. Young, *Environmental Geology of the Austin Area: An Aid to Urban Planning, Report of Investigations 86*, The University of Texas at Austin, Bureau of Economic Geology, reprinted 1992, 1976.

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NRCS Soil Survey Staff, Accessed 2013, *Soil Survey Geographic (SSURGO) Database for Survey Area, Texas* Online URL: <http://soildatamart.nrcs.usda.gov>, Natural Resources Conservation Service, United States Department of Agriculture, [

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Texas Commission on Environmental Quality (TCEQ), Effective April 2008, *Edwards Aquifer Rules, Chapter 213, SUBCHAPTER A: EDWARDS AQUIFER IN MEDINA, BEXAR, COMAL, KINNEY,*

UVALDE, HAYS, TRAVIS, AND WILLIAMSON COUNTIES, §213.1-§213.14.
<https://www.tceq.texas.gov/assets/public/legal/rules/rules/pdflib/213a.pdf>

TCEQ, 2005, Edwards Aquifer Recharge Zone Boundary Maps,
http://www.tceq.state.tx.us/compliance/field_ops/eapp/program.html .

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<https://www.tceq.texas.gov/publications/rg/rg-348/>

TCEQ, revised October 2004, Instructions to Geologists for completing Geologic Assessments within the Edwards Aquifer Recharge Zone.

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http://www.twdb.state.tx.us/DATA/waterwell/well_info.asp

Thomas, G.W. 1975, *Texas Plants – A Checklist and Ecological Summary* in: F.W. Gould, 1975, *Texas Plants – a checklist and ecological summary*, Texas Agricultural Experiment Station, MP-585/Rev., College Station, Texas, A&M University.

US Geological Survey (USGS), 7.5' Buda, Texas, Topographic Quadrangle Maps, 1987.

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Wermund, E.G., 1996, Physiographic Map of Texas, State Map 5, Bureau of Economic Geology, The University of Texas.

Attachment 1
Figures

Attachment 2

Geologic Assessment Table

GEOLOGIC ASSESSMENT TABLE																		
LOCATION		FEATURE CHARACTERISTICS																
1A	1B	1C	2A	2B	3	4	5	6	7	8A	8B							
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	NOT SENSITIVE	SENSITIVE	CATCHMENT AREAS (ACRES)	TOPOGRAPHY	
						X	Y	Z	10					<40	>40	<1.6	>1.6	
*DATUM: HDD1 WGS 84																		
*No potentially Sensitive Features were found on this site (as defined by TCEQ Instructions to Geologists, 1999).																		

PROJECT NAME: 1185 South FM 1626

JOB NUMBER: E150006

*DATUM: Decimal Degrees/ WGS 84

2A TYPE	2B POINTS
C	30
SC	20
SF	20
F	20
O	5
MB	30
SW	30
SH	20
CD	5
Z	30

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

12 TOPOGRAPHY
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

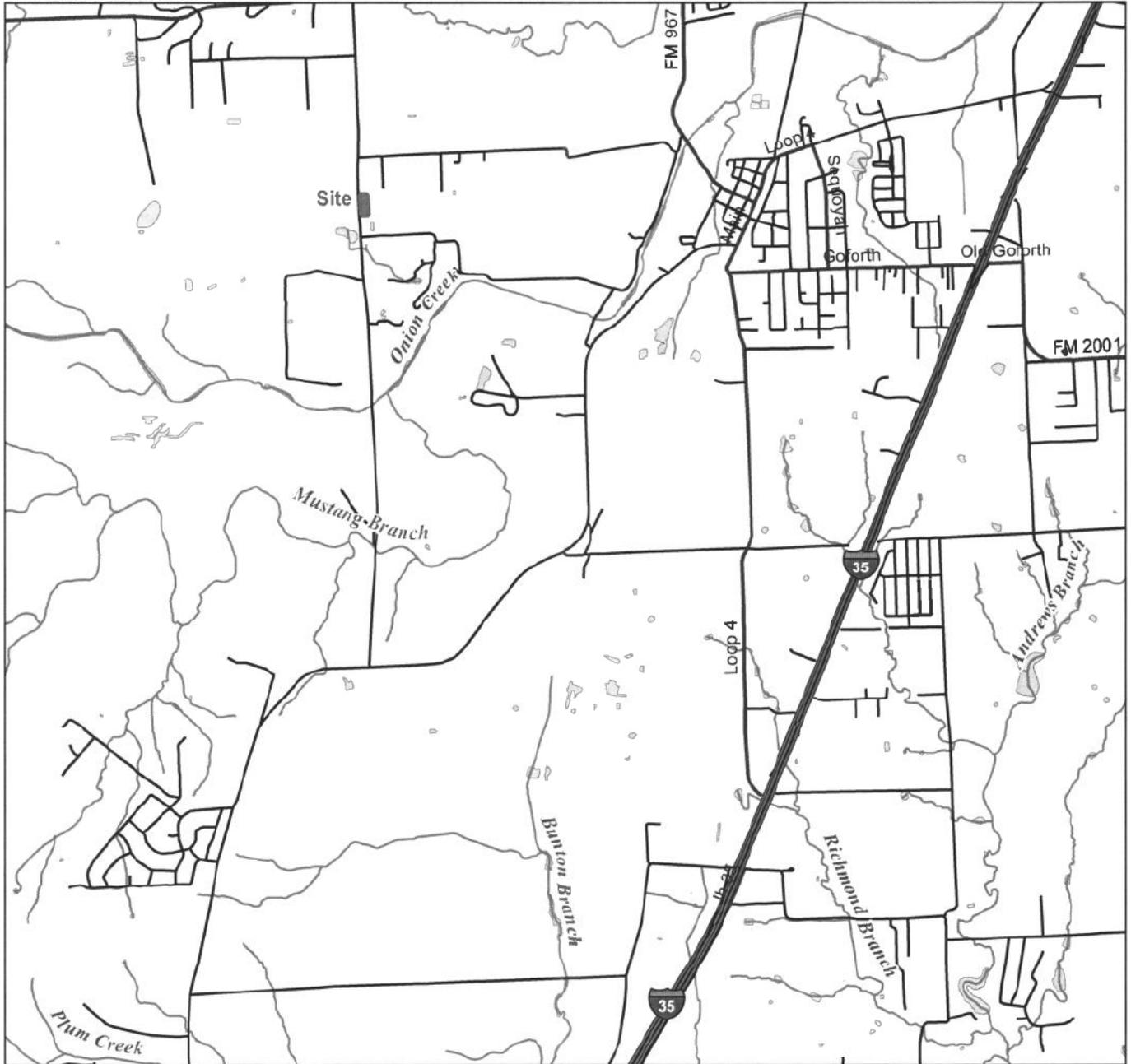
8B RELATIVE INFILTRATION RATE	
HIGH	> 35
INTERMEDIATE	20 TO 34
LOW	5 TO 19



I have read, I understand, 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. The seal appearing on this document was authorized by Kristin M. White, P.G. 1720 on: 8-Mar-2017

For Escarpment Environmental,
Kristin M. Miller
 Signature 8-Mar-2017
 Date

Attachment 3
Site Geologic Map



Legend

 Site Boundary

1 inch = 4,000 feet
0 2,000 4,000

Feet

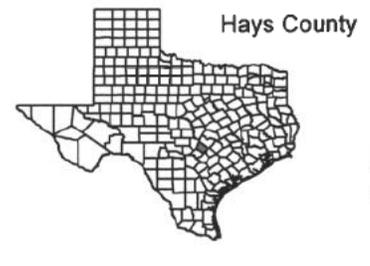


Figure 1
Location Map
1.5-acre property
1185 S. FM 1626
Buda, Hays County, Texas



Basemap, USGS Mountain City and Buda, Texas, Quadrangle Maps, 1986.
 Recharge Zone Boundary: TCEQ, 2006.
 Water Wells: TWDB, 2017.

Legend

-  Site Boundary
-  Edwards Aquifer Contributing Zone
-  Watershed (COA, 2007)

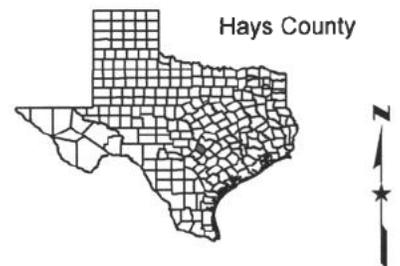
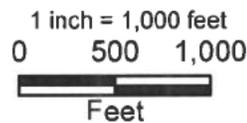


Figure 2
Boundary Map
 1.5-acre property
 1185 S. FM 1626
 Buda, Hays County, Texas



Aerial Photograph: CAPCOG, 2006
 Soil: NRCS Soil Survey Staff, 2006

Legend

-  Site Boundary
-  Soil Association (NRCS, 1994)
-  Soil Type (NRCS, 2006) Comal and Hays County

NRCS Soil Types:
 Anhalt clay, 0 to 1 % slopes (AnB)
 Krum clay, 3 to 5% slopes (Krc)
 Rumple-Comfort Association – undulating (RUD)

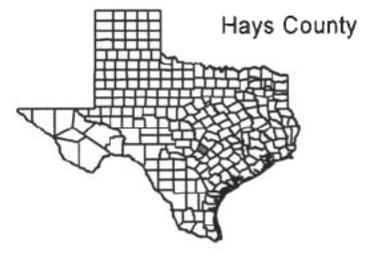
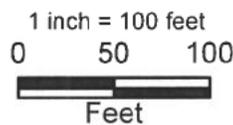


Figure 3
Soils Map
 1.5-acre property
 1185 S. FM 1626
 Buda, Hays County, Texas



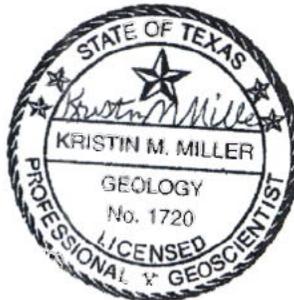
Aerial Photograph: CAPCOG, 2006

Geology:

Garner, L. E., and K. P. Young, Environmental Geology of the Austin Area: An Aid to Urban Planning, Report of Investigations 86, The University of Texas at Austin, Bureau of Economic Geology, reprinted 1992, 1976.

Legend

-  Site Boundary
-  Kdr - Del Rio clay



The seal appearing on this document was authorized by Kristin M. Miller, P.G. # 1720 June 13, 2017.

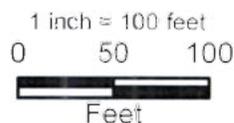


Figure 3
Geologic Map
 1.5-acre property
 1185 S. FM 1626
 Buda, Hays County, Texas



IV.

**RECHARGE AND TRANSITION ZONE
EXCEPTION REQUEST FORM
(TCEQ-0628)**

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: Travis Flake, PE

Date: 10/11/2023

Signature of Customer/Agent:



Regulated Entity Name: Driftwood Diesel

Exception Request

- 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.
- Attachment B - Documentation of Equivalent Water Quality Protection.** Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

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

RECHARGE AND TRANSITION ZONE EXCEPTION REQUEST PLAN SECTION ATTACHMENT A

NATURE OF EXCEPTION

An exception is requested to the requirement for a Watershed Pollution Abatement Plan for the regulated activity proposed within the Edwards Aquifer Recharge Zone on this project. This project is the second phase of the Driftwood Diesel project. The first phase was permitted under Edwards Aquifer Protection program ID No. 111000708 on October 24, 2017.

That development proposed total impervious cover on-site of 0.34 acres and proposed permanent treatment with a grassy swale. That construction including the grassy swale was completed.

The proposed improvements do not increase this total impervious cover and does not disrupt the existing drainage patterns. This is accomplished by the demolition of existing barn foundation and a single-family home in order to create space for the new garage. Additional paving is constructed of pervious material, TrueGrid or approved equal. The total proposed impervious cover is 0.337 acres.

**RECHARGE AND TRANSITION ZONE EXCEPTION REQUEST PLAN SECTION
ATTACHMENT B**

DOCUMENTATION OF EQUIVALENT PROTECTION

Protection for the Edwards Aquifer was provided per RG-348 requirements with the 2017 project (EAP 111000708). This included a permanent grassy swale which provided the required 202 pounds of total suspended solids.

This swale has been constructed and remains in good condition. Additional protection is provided with the utilization of the TrueGrid permeable paving system for paving above the level treated.



V.

**TEMPORARY STORMWATER SECTION
(TCEQ-0602)**

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: Travis Flake, Flake Engineering

Date: 10-11-23

Signature of Customer/Agent:



Regulated Entity Name: Driftwood Diesel

Project Information

Potential Sources of Contamination

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

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

The following fuels and/or hazardous substances will be stored on the site: _____

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

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

- Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- Fuels and hazardous substances will not be stored on the site.
- 2. **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Onion Creek

Temporary Best Management Practices (TBMPs)

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

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

- A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 - There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- N/A
12. **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

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

Administrative Information

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

TEMPORARY STORMWATER SECTION ATTACHMENT A

SPILL RESPONSE ACTIONS

Responsibility for adequate cleanup of any chemical spills during construction will be placed on the contractor. All cleanups will be to standards of TCEQ RG-348, dated July 2005. The contractor will notify TCEQ of any chemical spills as required and outlined in the Technical Guidance on Best Management Practices at 512-339-2929 for the Austin Regional Office during normal business hours, and 1-800-832-8224 for the Spill Reporting Hotline. The TCEQ guidance can be found at <https://www.tceq.texas.gov/publications/rg/rg-348>.

Reportable quantities as defined by 30 TAC Chapter 327 are as follows:

(a) Hazardous substances. The reportable quantities for hazardous substances shall be:

(1) for spills or discharges onto land--the quantity designated as the Final Reportable Quantity (RQ) in Table 302.4 in 40 CFR §302.4; or

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

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

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

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

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

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

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

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

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

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

TEMPORARY STORMWATER SECTION ATTACHMENT B

POTENTIAL SOURCES OF CONTAMINATION

Some potential sources of contamination are as follows:

- fuel storage and use,
- chemical storage and use,
- use of asphaltic products,
- construction vehicles tracking onto public roads,
- existing solid waste,
- and other vehicular contaminants (i.e., fuel, oil, lubricants, etc.).

Refer to Attachment A for Spill Response Actions.

TEMPORARY STORMWATER SECTION ATTACHMENT C

SEQUENCE OF MAJOR ACTIVITIES

1. Construct temporary erosion control measures, including all silt fences, rock berms, diversion berms, and tree protection fencing per approved plan. (1.50 acres)
2. Conduct pre-construction conference with any inspector, water and wastewater utility representative, owner's representative, architect, engineer and contractor.
3. Perform clearing, demolition and rough grading. (0.64 acres)
4. Install utilities. Conduct water and wastewater utility construction and testing for city acceptance. Coordinate underground electric, telephone, cable tv, and telecommunications construction. Install inlet protection (0.05 acres).
5. Construct all weather access drives including asphalt and base. (0.16 acres).
6. Construct buildings. (0.08 acres)
7. Install all sidewalks. (0.05 acres)
8. Prior to city final acceptance, the contractor shall have vegetative cover in place in conformance with the general construction notes. All adjacent areas disturbed by the work will be repaired and revegetated by the general contractor to preexisting or better conditions. Permanent controls will be cleaned out and filter media will be installed prior to/concurrently with revegetation of site. (0 acres)
9. Schedule site final inspection with city environmental technician.
10. Remove any trapped sediment at erosion control devices and upon approval of city inspector. Remove all temporary erosion controls and tree protection. (0 acres)

TEMPORARY STORMWATER SECTION ATTACHMENT D

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

At the beginning of the project, Temporary Best Management Practices (BMPs) will be installed according to the Erosion and Sedimentation Notes and Details sheet and placed as shown on the Erosion and Sedimentation Control Plan sheet. Silt fences will be installed and the proposed detention pond will be rough cut before construction begins. When full, the proposed detention pond overflow will concentrate downstream and pass-through silt fence and a rock berm. During construction, the silt fencing and detention pond are to be inspected weekly, and after any rainfall. There is no upgradient water from the undeveloped site upstream of the proposed development.

On-site Water

Silt fencing will be placed downwards along the boundary line of the tracts. These Temporary BMPs will be installed along the down-gradient boundary of the property to filter all runoff that originates on site. The temporary construction entrance will be installed to prevent tracking materials offsite. Additionally, a concrete truck washout area will be placed onsite and be accessible to all existing traffic leaving the site. By this, the Temporary BMPs will prevent pollution of surface water that originates on-site due to the construction of the project.

The following sections were taken from the TNCC Manual, "Complying with Edward Aquifer Rules: Technical Guidance on Best Management Practices."

- Construction Exit should be used at all designated access points.
 - Silt Fence (interior) Areas of minor sheet flow. < ¼ acre/100 feet of fence < 20% slopes.
 - Silt Fence (exterior) Down slope borders of site; up slope border is necessary to divert offsite drainage. For larger areas use diversion swale or berm. < ¼ acre/100 feet of fence < 20% slopes.
 - Rock Berm Drainage swales and ditches with and below site. < 5 acres < 30% slopes.
 - Inlet Protection Prevent sediment from entering storm drain system. < 1 acre.
 - Spill Prevention Used on all sites to reduce spills.
 - Concrete Washout Use on all concrete pouring operations.
- A. A description of how BMPs and measures will prevent pollution of surface water, groundwater or storm water that originates upgradient from the site and flows across the site.

1. The upgradient storm water will be directed to the previously mentioned temporary BMPs.
- B. 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 storm water runoff from the site.
1. Silt fence and stabilized construction entrances shall be used to prevent pollution of surface water, groundwater or storm water that originates on-site or flows off-site by locating the TBMPs downstream of the flows leaving the site. The TBMPs will reduce the amount of contaminated runoff leaving the site by acting as a filter for sediment before the flows are released into the existing storm sewer system. Also included is a stabilized construction entrance to reduce the amount of mud tracked onto surrounding streets by construction vehicles. Inspection and maintenance of the on-site controls shall be performed during the site clearing and rough grading process.

All TBMPs will be maintained by the Contractor as will be described in the Contractor's Storm water Pollution Prevention Plan (SWPPP). The initial installation of Erosion and Sedimentation Controls, will act as a sediment trap, and help to prevent pollution of surface waters from runoff originating on-site to the greatest extent practicable.
- C. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
1. By locating the TBMPs downstream of the flows leaving the site, the TBMPs will reduce the amount of contaminated runoff leaving the site by acting as a filter for sediment before the flows are released. Also included is a stabilized construction entrance to reduce the amount of mud tracked onto surrounding streets by construction vehicles. Inspection and maintenance of the on-site controls shall be performed during the site clearing and rough grading process. All TBMPs will be maintained by the Contractor as will be described in the Contractor's SWPPP. The initial installation of Erosion and Sedimentation Controls, will act as a sediment trap, and help to prevent pollution of surface waters from runoff originating onsite to the greatest extent practicable.
- D. 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.

Please refer to plan sheets 5.

**TEMPORARY STORMWATER SECTION
ATTACHMENT E**

REQUEST TO TEMPORARILY SEAL A FEATURE

Not Applicable (N/A). There will be no temporary sealing of naturally-occurring sensitive features on the site.

TEMPORARY STORMWATER SECTION ATTACHMENT F

STRUCTURAL PRACTICES

Structural practices will be used to limit runoff discharge of pollutants from exposed areas of the site. Silt fencing, triangular sediment filter dikes, inlet protection devices, and stabilized construction entrances will be incorporated as temporary erosion control devices and will be removed after the permanent stabilization is established.

Silt fencing shall be incorporated throughout the construction process. The placement of the silt fencing shall be perpendicular to runoff flow. Refer to project construction documents for quantity and actual locations of these erosion control devices. In areas where silt fencing is to be situated but is non-installable, triangular filter dikes shall be incorporated.

Stabilized construction entrances will be employed during the construction of this site to help minimize vehicle tracking of sediments. Paved streets adjacent to these site entrances shall be cleaned and/or swept regularly to remove any excess mud, dirt or rock tracked from the site. Refer to the project construction documents for actual locations of these erosion control devices. Staging areas will be utilized in locations as decided by the project general contractor and validated by the civil engineer. If the contractor determines the need for additional stabilized construction entrances, construction staging areas or pits, their locations shall be agreed upon by the contractor and the engineer and annotated in the Storm Water Pollution Prevention Plan (SWPPP) posted on the site during construction.

**TEMPORARY STORMWATER SECTION
ATTACHMENT G**

DRAINAGE AREA MAPS

Please refer to Existing and Proposed Drainage Area Maps sheets in the construction plans.

**TEMPORARY STORMWATER SECTION
ATTACHMENT H**

TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS

This section is not applicable for this project.

TEMPORARY STORMWATER SECTION ATTACHMENT I

INSPECTION AND MAINTENANCE FOR BMPS

INSPECTIONS

Each contractor will designate a qualified person (or persons) to perform the following inspections:

1. Disturbed areas and areas used for storage of materials that are exposed to precipitation will be inspected for evidence of, or the potential for, pollutants entering the drainage system.
2. Erosion and sediment control measures identified in the plan will be observed to ensure that they are operating correctly.
3. Where discharge locations or points are accessible, they will be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.
4. Locations where vehicles enter or exit the site will be inspected for evidence of offsite sediment tracking.

The inspection shall be conducted by the responsible person at least once every seven (7) calendar days and within 24 hours after a storm providing 1/2 inches of rainfall or greater. If one or more of the following conditions apply, the frequency of inspections shall be conducted at least once every month:

1. The site has been temporarily stabilized.
2. Where runoff is unlikely due to winter conditions (i.e. site is covered with snow, ice, or where frozen ground exists).
3. During seasonal arid periods in arid areas (areas with an average annual rainfall of 0 to 10 inches) and semi-arid areas (areas with an average annual rainfall of 10 to 20 inches).

The information required within an inspection and maintenance report are as follows:

1. Summary of the scope of the inspection.
2. Name(s) and qualifications of personnel making the inspection.
3. The date(s) of the inspection.

4. Major observations relating to the implementation of the storm water pollution prevention plan.
5. Changes required to correct damages or deficiencies in the control measures.

In addition to the required routine inspections, the following record of information will also be maintained:

1. The dates when selective clearing activities occur.
2. The dates when selective clearing activities permanently cease on a portion of the site.

Inspection and maintenance reports, as well as all records required by a Storm Water Pollution Prevention Plan (SWPPP), shall be included in the onsite SWPPP as part of the Texas Pollution Discharge Elimination System (TPDES) Report. Copies of example forms to be used for the inspection and maintenance reports along with their related records, will be included in the onsite SWPPP and are provided for reference.

MAINTENANCE

Based on the results of the inspection, any changes required to correct damages or deficiencies in the control measures shall be made within seven (7) calendar days after the inspection. If existing erosion controls need modification or additional erosion controls are necessary, implementation shall be achieved prior to the next anticipated storm event. If, however, the execution of this requirement becomes impractical, then the implementation will occur as soon as possible, with the incident duly noted with an explanation of the impracticality, in the inspection report.

Sediment accumulation at each control will be removed and properly disposed when the depth of accumulation equals or exceeds six (6) inches. If sediment accumulation is found to be contaminated, its disposal shall be off-site in a manner which conforms to the appropriate applicable regulations.

Inspection Report

Prevention Measure	Pollution	Inspected in Compliance (Y/N)	Corrective Action Required	
			Description (use additional sheet if necessary)	Date Completed
BEST MANAGEMENT PRACTICES				
Silt fences				
Rock berms				
Drain inlet protection				
Gravel filter bags				
Vehicle exits (offsite tracking)				
Concrete washout pit (leaks, failure)				
Temporary vegetation				
Permanent vegetation				
Sediment control basin				
Other structural controls				
Material storage areas (leakage)				
Equipment areas (leaks, spills)				
Construction debris				
General site cleanliness				
Trash receptacles				
Natural vegetation buffer strips				
EVIDENCE OF EROSION				
Site preparation				
Roadway or Parking Lot Construction				
Utility Construction				
Drainage Construction				
Building Construction				
MAJOR OBSERVATIONS				
Sediment discharges from site				
BMPs requiring maintenance				
BMPs requiring modification				
Additional BMPs required				

"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 gather and evaluate 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."

Inspector's Name (Superintendent)

Inspector's Signature

Date

Name of Owner/Operator (Firm)

Authorized Signature

Date

Note: If there is a "NO" answer in the second column, the right columns will need to be completed and action is required within 7 days. Use additional sheets if necessary.

Responsible Party Form and Schedule

Prevention Measure	Pollution	Responsible Party Company Name									
		Start Date	Estimated Duration (Days)								
BEST MANAGEMENT PRACTICES											
Silt fences											
Rock berms											
Drain inlet protection											
Gravel filter bags											
Vehicle exits (offsite tracking)											
Concrete washout pit (leaks, failure)											
Temporary vegetation											
Permanent vegetation											
Sediment control basin											
Other structural controls											
Material storage areas (leakage)											
Equipment areas (leaks, spills)											
Construction debris											
General site cleanliness											
Trash receptacles											
Natural vegetation buffer strips											
Inspections											
SWP3 Modification & Records											
POTENTIAL EROSION SOURCES											
Clearing											
Grading											
Excavation											
Drainage Construction											
Utility Construction											
Roadway or Parking Lot Construction											
Foundation Construction											
Building Construction											
Landscaping Activities											
Identify responsible parties and indicate responsible party for each pollution prevention item listed above by marking an X under the Responsible Party Name.											

TEMPORARY STORMWATER SECTION ATTACHMENT J

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

During Construction:

The methodology for handling pollution of on-site or up-gradient storm water during construction will include the following:

1. Silt fencing and rock berms will be used as a temporary erosion and sedimentation controls.
2. Stabilized construction entrances/exits will be put into place to reduce the dispersion of sediment from the site, and to aid in accessibility to the site.
3. A construction staging area will also be put into place for material stockpiles, machinery storage, and machinery maintenance.
4. Concrete truck washout pits will be put into place to prevent contamination of storm water runoff and to aid in the removal of sediments from the site.
5. As required by the TCEQ General Permit, disturbed areas on which construction activity has ceased (temporarily or permanently) and which will be exposed for more than 21 days shall be stabilized within 14 days. Areas receiving less than 20 inches of annual rainfall should be stabilized as soon as practicable and only to pre-project conditions.
6. If construction stops for more than 14 days, hydro-seeding, sod or other TCEQ approved method will be applied to re-stabilize vegetation.

After Construction:

This site will provide the following permanent pollution abatement measures to prevent the pollution of storm water originating on-site or upgradient from the project site:

1. Storm water will be directed to grate inlets via curbing and grading and discharged into the sedimentation/filtration basins. The sedimentation/filtration basins have been designed to capture and filter the required runoff from the individual watersheds. The basin has been designed in accordance with the TCEQ Technical Guidance Manual. Each basin will be constructed as that particular phase is built.

2. Native grasses will be used on-site to help reduce the use of fertilizers and this will in turn reduce the levels of phosphates present in the storm water runoff.
3. Where possible drainage will be directed across vegetated areas to provide some pretreatment prior to discharge into the filtration basin.

Permanent Erosion Control:

1. All disturbed areas shall be restored as noted below:
 - A minimum of 4" of topsoil shall be placed in all drainage channels (except rock) and between the curb and R.O.W. property lines.
2. Broadcast Seeding:
 - From September 15 to March 1, seeding shall be with a combination of 2 pounds per 1,000 SF of unhulled Bermuda and 7 pounds per 1000 SF of Winter Rye with a purity of 95% with 90% germination.
 - From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 2 pounds per 1000 SF with a purity of 95% with 85% germination.
3. Fertilizer shall be a pelleted or granular slow release with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of 1 pound per 1,000 SF.

Seeding:

- 1) The seeding for permanent erosion control shall be applied over areas disturbed by construction as follows:
 - a) From September 15 to March 1, seeding shall be with a combination of 2 pounds per 1,000 square feet of unhulled Bermuda and 7 pounds per 1,000 square feet of Winter rye with a purity of 95% with 90% germination.
 - b) From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 3 pounds per 1,000 square feet with a purity of 95% with 85% germination.
- 2) Fertilizer shall be slow release granular or pelleted type and shall have an analysis of 15-15-15 and shall be applied at the rate of 23 pounds per acre, once at the time of planting and again once during the time of establishment.
- 3) The planted area shall be irrigated or sprinkled in a manner that will not erode the topsoil but will sufficiently soak the soil to a depth of six inches. The irrigation shall

occur at ten-day intervals during the first two months. Rainfall occurrences of an inch or more shall postpone the watering schedule for one week.

- 4) Mulch type used shall be Prairie hay, applied at a rate of 4,000 pounds per acre.
- 5) Restoration shall be acceptable when the grass has grown at least one inch high with 70% coverage, provided no bare spots larger than 18 square feet exist.



VI.

**PERMANENT STORMWATER SECTION
(TCEQ-0600)**

Permanent Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Travis Flake, Flake Engineering

Date: 10-11-23

Signature of Customer/Agent



Regulated Entity Name: Driftwood Diesel

Permanent Best Management Practices (BMPs)

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

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

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

N/A

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

N/A

4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

The site will be used for low density single-family residential development and has 20% or less impervious cover.

The site will be used for low density single-family residential development but has more than 20% impervious cover.

The site will not be used for low density single-family residential development.

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

Attachment A - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

The site will not be used for multi-family residential developments, schools, or small business sites.

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

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

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

Responsibility for Maintenance of Permanent BMP(s)

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

14. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- N/A
15. A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- N/A

**PERMANENT STORMWATER SECTION
ATTACHMENT A**

20% OR LESS IMPERVIOUS COVER WAIVER

This project is not a small business with less than 20% impervious cover and is not requesting this waiver.

**PERMANENT STORMWATER SECTION
ATTACHMENT B**

BMPS FOR UPGRADIENT STORMWATER

Permanent BMPs are not required to prevention pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site as the properties upgradient of the site consist of only one low density single family house immediately north of the site.

**PERMANENT STORMWATER SECTION
ATTACHMENT C**

BMPS FOR ON-SITE STORMWATER

One permanent BMP, a grassy swale, exists on-site to prevent pollution of surface water, groundwater, or storm water that originates onsite or flows off the site. Calculations and details from the construction of this BMP can be found in the attached construction plans.

An additional measure is proposed with the inclusion of permeable pavers, TrueGrid. This includes the required impermeable liner and underdrain system. 89% TSS removal was utilized for this section. As the site in total without the permeable pavers is treated to the required level with the grassy swale; the 89% for the permeable paving keeps the site in compliance.

**PERMANENT STORMWATER SECTION
ATTACHMENT D**

BMPS FOR SURFACE STREAMS

No surface streams exist in the project vicinity.

**PERMANENT STORMWATER SECTION
ATTACHMENT E**

REQUEST TO SEAL FEATURES

This section is Not Applicable (N/A) for this project.

**PERMANENT STORMWATER SECTION
ATTACHMENT F**

CONSTRUCTIONS PLANS

The set of construction plans are attached including the design of the permanent BMP from the previous plans for reference.

DRIFTWOOD DIESEL BUDA EXPANSION SITE DEVELOPMENT PLAN

1185 FM 1626, BUDA, HAYS COUNTY
MARCH 2023

PROJECT #033-001

Sheet List Table	
Sheet Number	Sheet Title
01	COVER
02	FINAL PLAT
03	GENERAL NOTES
04	EXISTING CONDITIONS & DEMOLITION PLAN
05	EROSION & SEDIMENTATION CONTROL & TREE PROTECTION PLAN
06	SITE PLAN
07	GRADING, DRAINAGE, & WATER QUALITY PLAN
08	EXISTING DRAINAGE AREA MAP
09	PROPOSED DRAINAGE AREA MAP
10	REFERENCE WATER QUALITY PLAN
11	REFERENCE DETENTION POND DETAILS
12	REFERENCE DETENTION POND PLAN
13	DETAILS

PROJECT DESCRIPTION:

THE PROJECT PROPOSES TO REMOVE TWO EXISTING STRUCTURES AND ADD AN ADDITIONAL METAL BUILDING TO THE EXISTING SITE.

GENERAL NOTES:

- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT THE TEXAS AREA "ONE CALL" SYSTEM @ 811 OR 1-800-545-6005, OR THE OWNER OF EACH INDIVIDUAL UTILITY, FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF UTILITY CROSSING PRIOR TO BEGINNING CONSTRUCTION.
- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA.
- CONTRACTOR SHALL RESTORE ALL SIGNS AND PAVEMENT MARKINGS TO EXISTING CONDITIONS FOLLOWING THE COMPLETION OF EACH PHASE OF CONSTRUCTION. CONTRACTORS SHALL REFER TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) FOR SIGN AND MARKING DIMENSIONS AND COLORS.
- ALL CONSTRUCTION HEREIN SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF BUDA STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED. NO SEPARATE SPECIFICATIONS WILL BE PROVIDED.
- CONTRACTOR IS FULLY RESPONSIBLE FOR FIELD LOCATING ALL EXISTING UTILITIES, PRIVATE AND PUBLIC, WITHIN WORK AREA. NEITHER OWNER NOR ENGINEER HAS AS-BUILT INFORMATION FOR UNDERGROUND UTILITIES AND MAKES NO GUARANTEE AS TO THEIR LOCATION. CONTRACTOR WILL EMPLOY CONSTRUCTION METHODS NECESSARY TO ENSURE UNDERGROUND UTILITIES ARE NOT DAMAGED (I.E. HAND DIGGING ETC.)

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UTILITIES, PRIVATE OR PUBLIC, AND SHALL REPAIR ANY UTILITIES DAMAGED TO THE OWNER'S SPECIFICATIONS AT NO COST TO THE OWNER.



CIVIL ENGINEER INFORMATION
 TRAVIS FLAKE, PE (FLAKE ENGINEERING, PLLC)
 201 GROVE LANE
 BUDA, TX 78610
 PHONE: (512) 468-6248
 EMAIL: TRAVIS@FLAKEENGINEERING.COM

OWNER/DEVELOPER INFORMATION
 DRIFTWOOD DIESEL, LLC
 CHRIS RICKMAN
 1185 FM 1626
 BUDA, TX 78610

UTILITY PROVIDERS
 ELECTRIC - PEDERNALES ELECTRIC COOPERATIVE
 WATER - PRIVATE WELL
 WASTEWATER - PRIVATE ON SITE SEPTIC

ZONING CATEGORY
 N/A, ETJ

EDWARDS AQUIFER
 THIS TRACT IS LOCATED WITHIN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) EDWARDS AQUIFER RECHARGE ZONE.

FLOODPLAIN STATUS
 NO PORTION OF THIS TRACT IS WITHIN THE 100 YEAR FLOODPLAIN PER THE FEDERAL FLOOD INSURANCE ADMINISTRATION FIRM MAP NO. 48209C0280F FOR HAYS COUNTY-TEXAS, DATED SEPTEMBER 2, 2005.

LEGAL DESCRIPTION
 LOT 1, DRIFTWOOD DIESEL SUBDIVISION, AS RECORDED IN DOC. 17044256 IN THE OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS.

CORRECTION / REVISION

NO.	DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET NO.'S	TOTAL SHEETS IN PLAN SET	NET CHANGE IMP. COVER	SITE IMP. COVER	% SITE IMP. COVER	APPROVED DATE	IMAGED DATE

SUBMITTED BY: TRAVIS FLAKE, PE

APPROVED BY:

FIRE MARSHAL, BUDA FIRE DEPARTMENT DATE

APPROVED BY:

CITY ENGINEER, CITY OF BUDA DATE

SITE PLAN APPROVAL SHEET 01 OF 13
 FILE NUMBER 2023-228 APPLICATION DATE 3/13/23
 APPROVED BY COMMISSION ON N/A UNDER THE CITY OF BUDA
 UNIFIED DEVELOPMENT CODE.
 EXPIRATION DATE CASE MANAGER T. FROST

CITY ENGINEER, CITY OF BUDA
 RELEASED FOR
 GENERAL COMPLIANCE: ZONING N/A
 Rev. 1 Correction 1
 Rev. 2 Correction 2
 Rev. 3 Correction 3

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COVER
DRIFTWOOD DIESEL BUDA EXPANSION
 1185 FM 1626 DR, BUDA, TEXAS



PRO. NO. 033-001

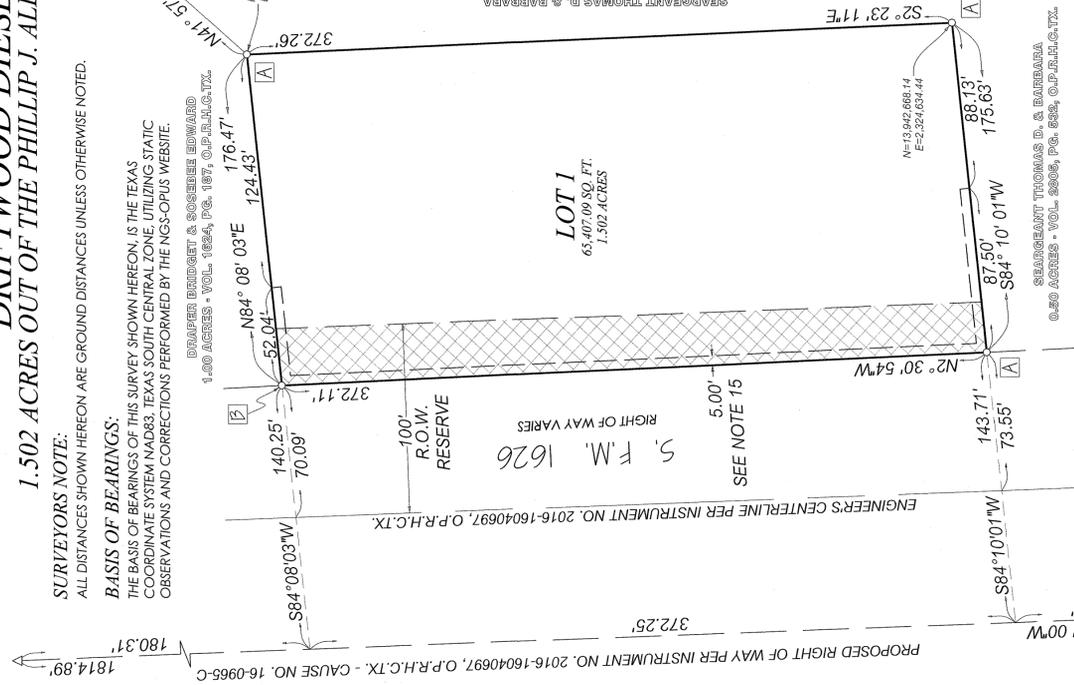
SHEET 01 OF 13

D:\Projects\033 Driftwood Diesel\001_Buda Expansion\CAD\Sheets\033-001_COVER.dwg ~ Wed, Oct 11, 2023, 3:15pm, By: TravisFlake

Instrument # 1704256 Number: 1 of 1 Filed and Recorded: 12/19/2017 11:06 AM
 Liz Q. Gonzalez, Hays County Clerk, Texas Rec 571.00 Deputy Clerk: CMORRIS
 Instrument # 1704256 Number: 1 of 1 Filed and Recorded: 12/19/2017 11:06 AM
 Liz Q. Gonzalez, Hays County Clerk, Texas Rec 571.00 Deputy Clerk: CMORRIS

DRIFTWOOD DIESEL SUBDIVISION
1.502 ACRES OUT OF THE PHILLIP J. ALLEN SURVEY, HAYS COUNTY, TEXAS

SHEET 1 OF 1 SHEETS

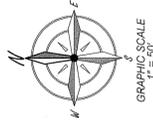
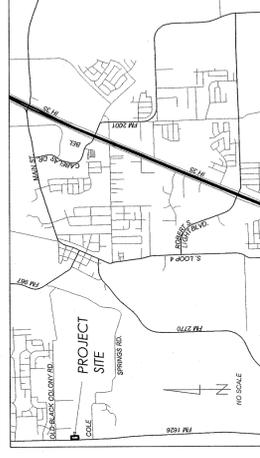


SURVEYORS NOTE:
 ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES UNLESS OTHERWISE NOTED.

BASIS OF BEARINGS:
 THE BASIS OF BEARINGS OF THIS SURVEY SHOWN HEREON, IS THE TEXAS COORDINATE SYSTEM NAD83, TEXAS SOUTH CENTRAL ZONE, UTILIZING STATIC OBSERVATIONS AND CORRECTIONS PERFORMED BY THE NGS-OPUS WEBSITE.

1.00 ACRES - VOL. 1064, PG. 107, O.P.R.H.C.TX.
 DRAPER BRIDGET & SOBENEE EDWARD
 N=13,942,628.69
 E=2,330,542.40

VICINITY MAP
 NO SCALE



11.06 ACRES - VOL. 4006, PG. 118, O.P.R.H.C.TX.
 SEARJEANT THOMAS B. & BARBARA
 N=13,942,668.14
 E=2,324,634.44

FLOODPLAIN NOTE:
 NO PORTION OF THIS TRACT IS WITHIN THE BOUNDARIES OF THE 100 YEAR FLOOD PLAN OF ANY WATERWAY THAT IS WITHIN THE LIMITS OF STUDY OF THE NFIP FLOOD INSURANCE RATE MAP NO. 48209C0280F, DATED SEPTEMBER 02, 2005, THIS TRACT FALLS WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN).

LOT 1
 65,407.09 SQ. FT.
 1.502 ACRES

STATE OF TEXAS
 COUNTY OF HAYS
 I, Liz Gonzalez, County Clerk of Hays County, Texas, do hereby certify that the foregoing instrument of writing with its certificate of authentication was filed for record in my office on the 19th day of December, 2017, A.D., at 11:06 o'clock A.M. in the plat records of Hays County, Texas as document no. 1704256.

WITNESS MY HAND AND SEAL OF OFFICE OF THE COUNTY CLERK OF SAID COUNTY THE 19 DAY OF December, 2017, A.D.

Liz Gonzalez
 Liz Gonzalez, County Clerk
 Hays County, Texas

CITY CERTIFICATION:
 THIS FINAL PLAT OF DRIFTWOOD DIESEL SUBDIVISION HAS BEEN SUBMITTED TO AND APPROVED ON BEHALF OF THE CITY COUNCIL OF THE CITY OF BUDA ON THE 17th DAY OF December, 2017.

Alicia Ramirez
 Alicia Ramirez, City Secretary
 City of Buda, Texas

COUNTY DEVELOPMENT SERVICES CERTIFICATION:
 I, THE UNDERSIGNED, DIRECTOR OF THE HAYS COUNTY DEVELOPMENT AND COMMUNITY SERVICES DEPARTMENT, HEREBY CERTIFY THAT THIS SUBDIVISION PLAT CONFORMS TO ALL HAYS COUNTY REQUIREMENTS AS STATED IN THE INTERLOCAL COOPERATION AGREEMENT BETWEEN HAYS COUNTY AND THE CITY OF BUDA FOR SUBDIVISION REGULATION WITHIN THE EXTRATERRITORIAL JURISDICTION OF THE CITY OF BUDA.

Roxie McInnis
 Roxie McInnis
 Division Manager, Hays County Development and Community Services

MONUMENT LEGEND / NOTES:

- = FOUND MONUMENT AS DESCRIBED.
- △ = CALCULATED POINT.
- [A] FOUND 1/2" IRON ROD.
- [B] FOUND HAYS COUNTY MONUMENT NO. 1065.
- [C] FOUND CONCRETE ROAD DEPARTMENT MONUMENT.
- [D] FOUND IRON ROD WITH ALUM. CAP STAMPED "TX. DEPT. OF TRANSPORTATION PROPERTY CORNER."

GENERAL NOTES:

1. LAND USE: 1.502 ACRES FOR 1 LOT.
2. WATER SERVICE IS BY ON-SITE WATER WELL.
3. WASTEWATER BY ON-SITE SEPTIC.
4. ELECTRIC SERVICE BY PERDRALES ELECTRIC COOPERATIVE, INC.
5. TELEPHONE SERVICE BY TIME WARNER CABLE.
6. THIS PROPERTY IS LOCATED WITHIN HAYS COUNTY ESD #8.
7. THIS PROPERTY IS LOCATED WITHIN THE CITY OF BUDA ETJ.
8. ALL OTHER UTILITIES, GAS, CABLE, INTERNET, ETC., ARE THE OWNER'S RESPONSIBILITY.
9. THIS PROPERTY IS LOCATED WITHIN THE HAYS CONSOLIDATED INDEPENDENT SCHOOL DISTRICT.
10. NO OBJECT INCLUDING BUT NOT LIMITED TO BUILDINGS, FENCES, OR LANDSCAPING SHALL BE ALLOWED IN A DRAINAGE EASEMENT.
11. PROPERTY OWNER SHALL PROVIDE ACCESS TO DRAINAGE AND UTILITY EASEMENTS AS MAY BE NECESSARY AND SHALL NOT PROHIBIT ACCESS FOR INSPECTION, OPERATION AND MAINTENANCE.
12. NO DRIVEWAY CONSTRUCTED ON ANY LOT WITHIN THIS SUBDIVISION SHALL BE PERMITTED ACCESS ONTO TO A PUBLICLY DEDICATED ROADWAY UNLESS:
 1. A PERMIT FOR USE OF THE COUNTY ROADWAY RIGHT-OF-WAY HAS BEEN ISSUED UNDER CHAPTER 751, AND,
 2. THE DRIVEWAY SATISFIES THE MINIMUM SPACING REQUIREMENT FOR DRIVEWAYS SET FORTH IN CHAPTER 721, THIS LOT.
13. A SITE DEVELOPMENT PERMIT ISSUED BY THE CITY OF BUDA, SHALL BE REQUIRED PRIOR TO ANY DEVELOPMENT ON THIS LOT.
14. THIS PROPERTY LIES WITHIN THE BOUNDARIES OF THE RECHARGE ZONE OF THE EDWARDS AQUIFER AND OUTSIDE THE CONTRIBUTING ZONE OF THE EDWARDS AQUIFER.
15. DURING THE COURSE OF THIS SURVEY WE IDENTIFIED UTILITY POLES AND OVERHEAD WIRES THAT TIE INTO AND CARRY ELECTRICITY AND COMMUNICATIONS LINES TOWARD THE ADJACENT PROPERTIES TO THE NORTH AND THE SOUTH OF THE SUBJECT PROPERTY. EASEMENT DOCUMENTS FOUND IN VOL. 157, PG. 56 D.B.H.C.TX. AND VOL. 706, PG. 269 R.P.H.C.TX. GIVE EASEMENT RIGHTS TO PERDRALES ELECTRIC COOPERATIVE AND GTE SOUTHWEST INC. ACROSS THE SUBJECT PROPERTY FOR THESE UTILITIES AND SHALL CONTINUE AS SUCH. THE OWNER HEREBY GRANTS AN EASEMENT 5 FOOT WIDE APPROXIMATELY 5 FEET FROM THE CENTERLINE OF SAID UTILITIES TO ENCOMPASS THE EXISTING UTILITIES IN PLACE AS SHOWN HEREON FOR UTILITY PURPOSES.
16. ALL MAILBOXES LOCATED IN THE RIGHT OF WAY SHALL BE OF AN APPROVED RDOT OR FHWA APPROVED DESIGN.

HAYS COUNTY WATER/WASTEWATER NOTE:

NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO AN INDIVIDUAL WATER SUPPLY OR STATE APPROVED COMMUNITY WATER SYSTEM. DUE TO DECLINING WATER SUPPLIES AND DIMINISHING WATER QUALITY, PROSPECTIVE PROPERTY OWNERS ARE CAUTIONED BY HAYS COUNTY TO QUESTION THE SELLER CONCERNING GROUND WATER AVAILABILITY. RAIN WATER COLLECTION IS ENCOURAGED AND IN SOME AREAS MAY OFFER THE BEST RENEWABLE WATER SOURCE.

NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A PERMITTED SEWER SYSTEM OR TO AN ON-SITE WASTE WATER SYSTEM WHICH HAS BEEN APPROVED AND PERMITTED BY HAYS COUNTY DEVELOPMENT SERVICES.

NO CONSTRUCTION OR DEVELOPMENT WITHIN THIS SUBDIVISION MAY BEGIN UNTIL ALL HAYS COUNTY DEVELOPMENT PERMIT REQUIREMENTS HAVE BEEN MET.

Roxie McInnis
 Roxie McInnis, Division Manager, Hays County Development and Community Services
 Date: 12/11/17

STATE OF TEXAS
 COUNTY OF HAYS
 OWNERS CERTIFICATION:

THAT THE UNDERSIGNED, DRIFTWOOD DIESEL, LLC., A TEXAS LIMITED LIABILITY COMPANY, OWNER OF 1.502 ACRES OF LAND OUT OF THE PHILLIP J. ALLEN SURVEY, IN HAYS COUNTY, TEXAS, CONVEYED TO US PER VOLUME INSTRUMENT NO. 2016-16088344, OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS, DO HEREBY HEREBY DEDICATE TO THE PUBLIC THE USE OF THE STREETS AND EASEMENTS HEREON, SUBJECT TO ANY EASEMENTS PREVIOUSLY GRANTED AND NOT RELEASED.

Chris Luke
 Chris Luke
 Driftwood Diesel, LLC.
 P.O. Box 1023, Buda, TX, 78610
 Date: 11/27/17

STATE OF TEXAS
 COUNTY OF HAYS
 KNOWN ALL MEN BY THESE PRESENTS

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED Chris Luke AS AN AUTHORIZED AGENT OF DRIFTWOOD DIESEL, LLC. KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS 21 DAY OF November, 2017, A.D.

Travis Flake
 Travis Flake
 Notary Public
 In and for the State of Texas
 My Commission Expires November 1, 2021

ENGINEER'S CERTIFICATION:

I, TRAVIS FLAKE, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF ENGINEERING, AND HEREBY CERTIFY THAT PROPER ENGINEERING CONSIDERATION HAS BEEN GIVEN TO THIS PLAT TO THE MATTERS OF STREETS, LOTS AND DRAINAGE LAYOUT, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



Travis Flake
 Travis Flake, P.E. # 109871
 SouthWest Engineers, Inc.
 112 Cimarron Park Loop, Suite A
 Buda, TX, 78610
 Texas Firm No.: F-1909
 Date: 11/27/17

SURVEYOR'S CERTIFICATION:
 I, SCOTT A. HAHN, AM REGISTERED IN THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF LAND SURVEYING, AND DO HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION AND THAT THE MONUMENTS WERE PROPERLY PLACED UNDER MY SUPERVISION.



Scott A. Hahn
 Scott A. Hahn
 Texas Registration No. 6375
 Spot On Surveying
 614 Jerry's Lane
 Buda, TX, 78610
 TBPLS Firm No.: 10193894
 Date: 11/27/2017

SOS. J/N: 0016-16-065

SITE PLAN APPROVAL		SHEET 02 OF 13	
FILE NUMBER	2023-228	APPLICATION DATE	3/13/23
APPROVED BY COMMISSION ON	N/A	UNDER THE CITY OF BUDA UNIFIED DEVELOPMENT CODE.	
EXPIRATION DATE		CASE MANAGER	T. FROST

CITY ENGINEER, CITY OF BUDA	
RELEASED FOR GENERAL COMPLIANCE:	ZONING N/A
Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

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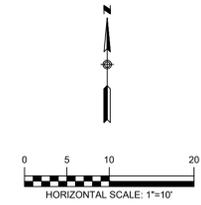
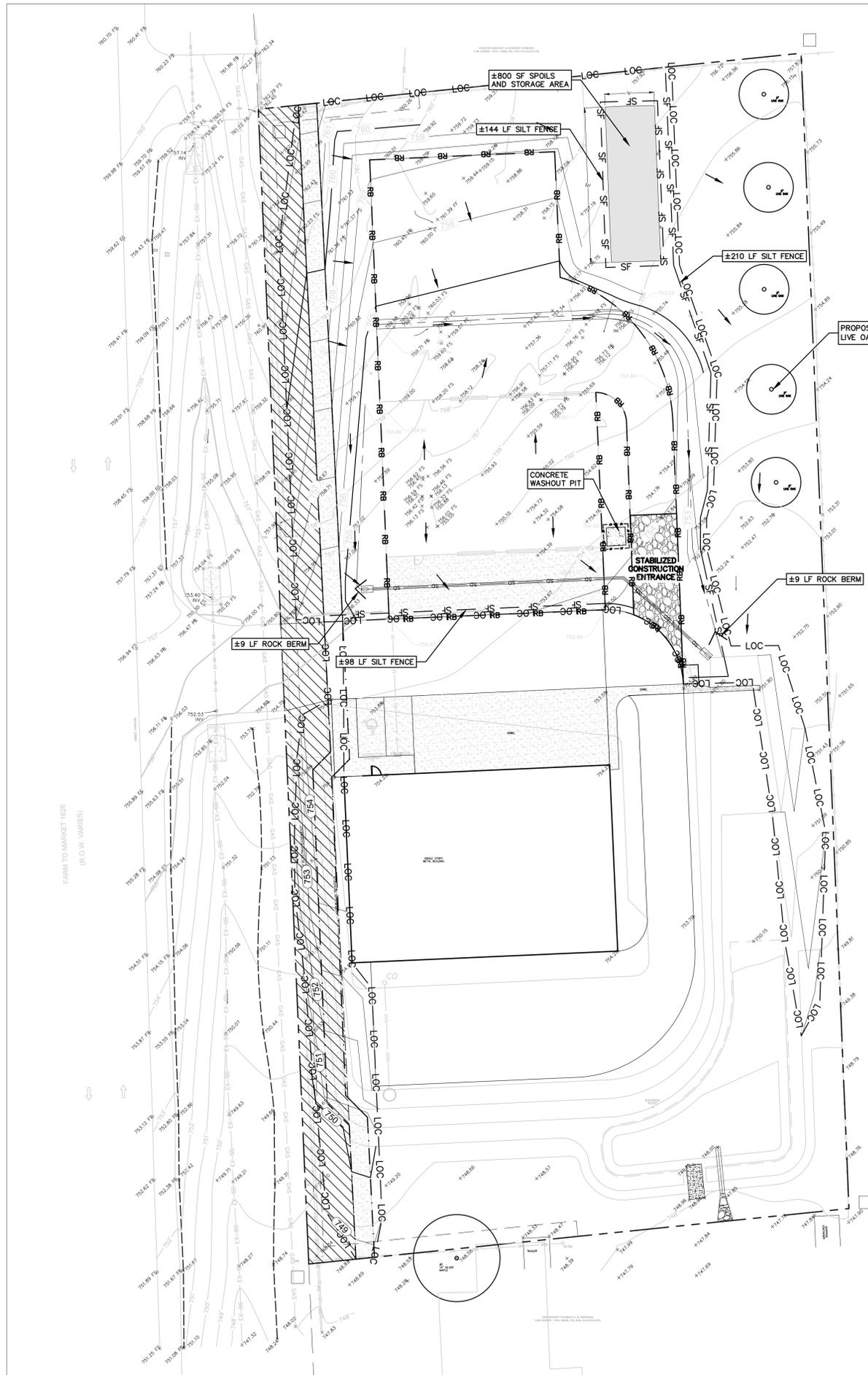
DRIFTWOOD DIESEL BUDA EXPANSION
 1185 FM 1626 DR, BUDA, TEXAS

FINAL PLAT

PRO. NO. 033-001
 SHEET 02 OF 13

NO.	REVISION	DATE

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LEGEND

— 700 —	EXISTING CONTOURS
— 705 —	PROPOSED CONTOURS
— SF —	SILT FENCE
— RB —	ROCK BERM
— LOC —	LIMIT OF CONSTRUCTION
→	FLOW ARROW
	STABILIZED CONSTRUCTION ENTRANCE

TREE TABLE

#1 GREEN ASH	14" (REMOVED)
#2 SILVER MAPLE	14"

Tree Mitigation Table

Trees Removed:	Pro.	Sig.	Her.
Total Number of Trees:	1	0	0
Caliper Inches:	14	0	0
Mitigation Required:	14	0	0
Mitigation Trees:			
Proposed 3" Trees:	5		
Caliper Inches:	15		

PROPOSED TREE TABLE

SPECIES	SIZE	QTY	TOTAL INCHES
PROPOSED LIVE OAK (QUERCUS VIRGIANA, 6' HEIGHT)	3" CAL	5	20

SITE PLAN APPROVAL SHEET 05 OF 13
 FILE NUMBER 2023-228 APPLICATION DATE 3/13/23
 APPROVED BY COMMISSION ON N/A UNDER THE CITY OF BUDA
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 EXPIRATION DATE CASE MANAGER T. FROST

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 Rev. 2 Correction 2
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NO.	REVISION	DATE

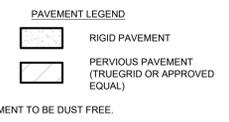
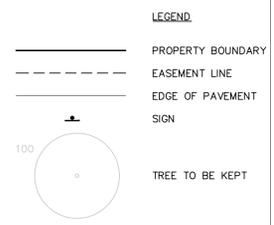
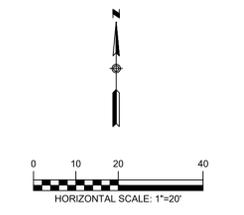
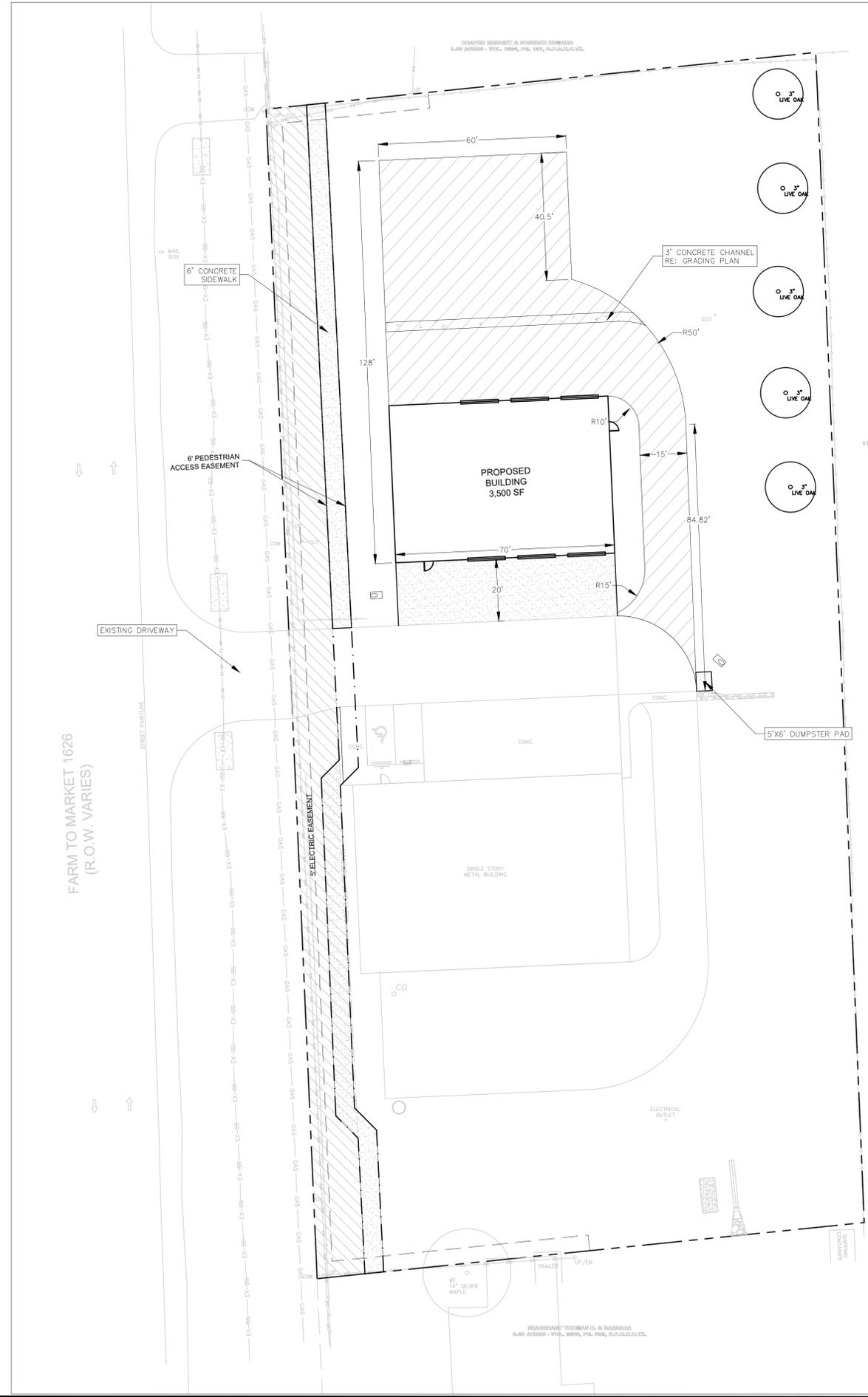


EROSION & SEDIMENTATION CONTROL & TREE PROTECTION PLAN
DRIFTWOOD DIESEL BUDA EXPANSION
 1185 FM 1626 DR, BUDA, TEXAS



PRO. NO. 033-001
 SHEET 05 OF 13

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IMPERVIOUS COVER SUMMARY

EXISTING TO REMAIN	9,779 SF	15%
EXISTING TO BE REMOVED	4,206 SF	6%
PROPOSED BUILDING	3,500 SF	5%
PROPOSED DRIVES & PARKING	1,431 SF	2%
PERVIOUS PAVEMENT @ 0%	6,784 SF	0%
TOTAL PROPOSED	4,931 SF	8%
TOTAL	14,710 SF	22.5%

*Site is permitted 22.7% impervious cover (IC) by Impervious Cover Waiver ###

SITE TABLE

	Lot Area (sf)	Lot Area (ac.)	Zoning	Existing Bldg Area (sf.)	Proposed Bldg Area (sf.)	Total Bldg Area (sf.)
Automotive Repair	65,303	1.499	ETJ	5,160	3,500	8,660

SITE PLAN APPROVAL SHEET 06 OF 13
 FILE NUMBER 2023-228 APPLICATION DATE 3/13/23
 APPROVED BY COMMISSION ON N/A UNDER THE CITY OF BUDA
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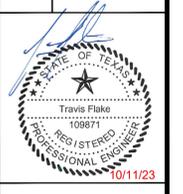
REVISION

NO.

FLAKE ENGINEERING
 TRAVIS@FLAKEENGINEERING.COM
 201 GROVE LANE, BUDA, TX 78610, 468-6248

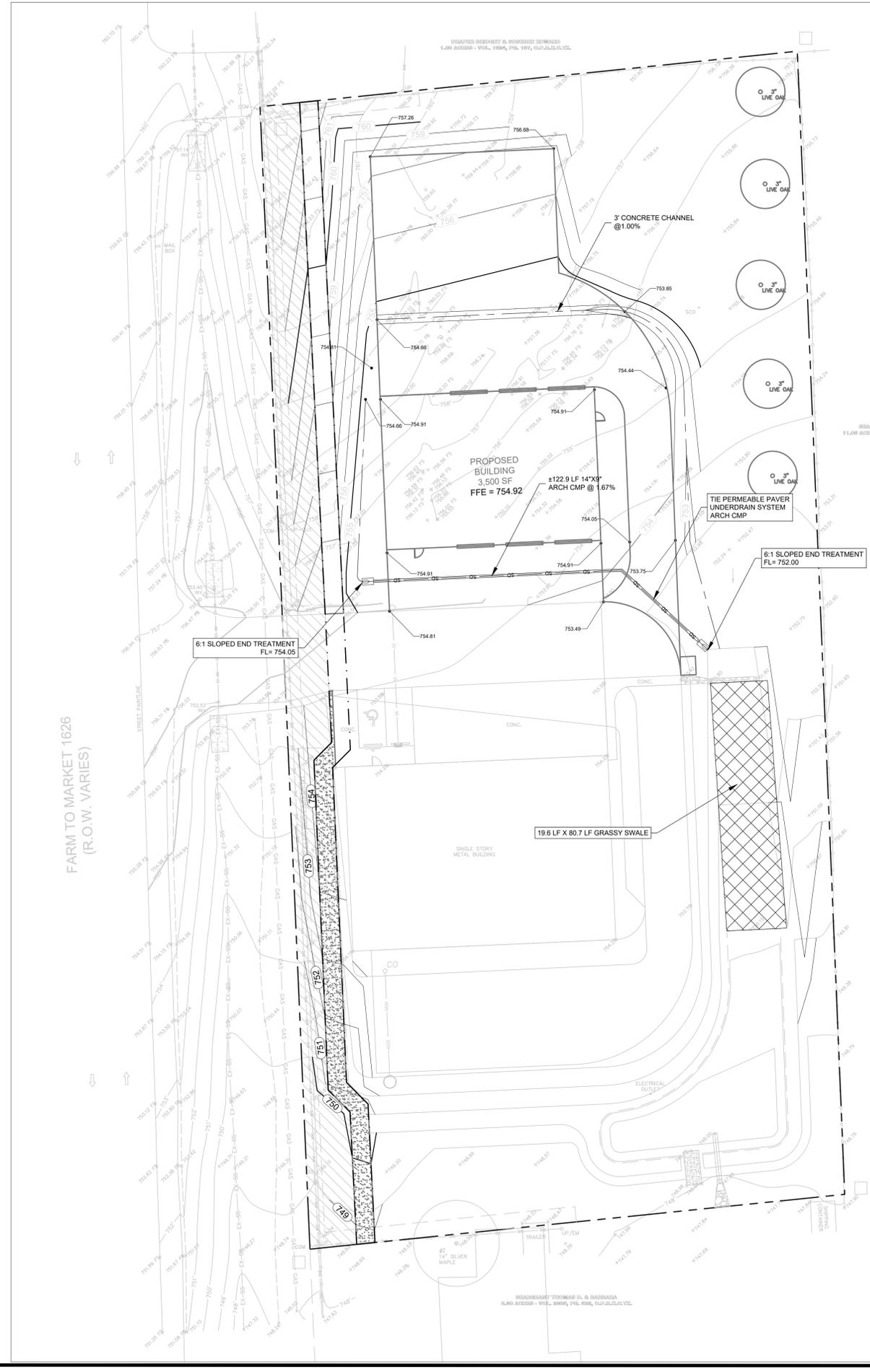
SITE PLAN

DRIFTWOOD DIESEL BUDA EXPANSION
 1185 FM 1626 DR, BUDA, TEXAS



PRO. NO. 033-001
 SHEET 06 OF 13

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1. The Required Load Reduction for the total project: Calculations from RG-348

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where: L_M TOTAL PROJECT = Required TSS removal result
 A_N = Net increase in impervious area
 P = Average annual precipitation

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Hays
Total project area included in plan =	1.50 acres
Predevelopment impervious area within the limits of the plan =	0.12 acres
Total post-development impervious area within the limits of the plan =	0.34 acres
Total post-development impervious cover fraction =	0.23
P =	33 inches
L_M TOTAL PROJECT =	253 lbs.

* The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = 1

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. =	1
Total drainage basin/outfall area =	1.50 acres
Predevelopment impervious area within drainage basin/outfall area =	0.12 acres
Post-development impervious area within drainage basin/outfall area =	0.34 acres
Post-development impervious fraction within drainage basin/outfall area =	0.23
L_M THIS BASIN =	253 lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Grassy Swale
 Removal efficiency = 70 percent

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

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times A_c)$

where: A_c = Total On-Site drainage area
 A_i = Impervious area proposed in this basin
 A_p = Pervious area remaining in this basin
 L_R = TSS Load removed from this basin

A_c =	1.50 acres
A_i =	0.34 acres
A_p =	1.16 acres
L_R =	286 lbs.

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

Desired L_M THIS BASIN =	253 lbs.
F =	0.88

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

Rainfall Depth =	1.50 inches
Post Development Runoff Coefficient =	0.22
On-site Water Quality Volume =	1778 cubic feet

Calculations from RG-348

Off-site area draining to BMP =	0.00 acres
Off-site impervious cover draining to BMP =	0.00 acres
Impervious fraction of off-site area =	0
Off-site Runoff Coefficient =	0.00
Off-site Water Quality Volume =	0 cubic feet

Storage for Sediment = 356 cubic feet
 Total Capture Volume (required water quality volume(s) x 1.20) = 2133 cubic feet

15. Grassy Swales Designed as Required in RG-348 Pages 3-51 to 3-54

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A =	1.50 acres
Impervious Cover in Drainage Area =	0.34 acres
Rainfall intensity = i =	1.1 in/hr
Swale Slope =	0.02 ft/ft
Side Slope (z) =	3
Design Water Depth = y =	0.13 ft
Weighted Runoff Coefficient = C =	0.42

A_{CS} = cross-sectional area of flow in Swale = 2.59 sf
 P_w = Wetted Perimeter = 20.38 feet
 R_h = hydraulic radius of flow cross-section = A_{CS}/P_w = 0.13 feet
 n = Manning's roughness coefficient = 0.2

15A. Using the Method Described in the RG-348

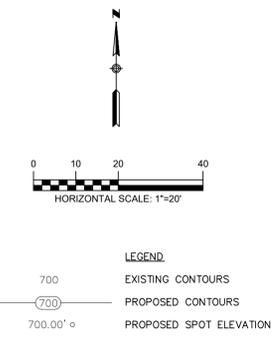
Manning's Equation: $Q = \frac{1.49 A_{CS} R_h^{2/3} S^{0.5}}{n}$

$b = \frac{0.134 \times Q}{y^{1.67} S^{0.5}} = 19.56$ feet

$Q = CIA = 0.70$ cfs

To calculate the flow velocity in the swale:
 V (Velocity of Flow in the swale) = $Q/A_{CS} = 0.27$ ft/sec

To calculate the resulting swale length:
 L = Minimum Swale Length = V (ft/sec) * 300 (sec) = 80.70 feet



ACCESSIBILITY NOTES:

- ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [ANSI 403.3]
- ACCESSIBLE PARKING SPACES MUST BE LOCATED ON A SURFACE WITH A SLOPE NOT EXCEEDING 1:50. [ANSI 502.5]
- SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [403.3]
- THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 IN. THE MAXIMUM HORIZONTAL PROJECTION IS 30 FEET FOR A RAMP WITH A SLOPE BETWEEN 1:12 AND 1:15, AND 40 FEET FOR A RAMP WITH A SLOPE BETWEEN 1:16 AND 1:20. [ANSI 405.2 - 405.6]

DETENTION NOTE:

CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY OF ALL DETENTION BASIN AND WATER QUALITY FACILITIES AT THE COMPLETION OF FINAL GRADE. SURVEY SHALL BE CONDUCTED BY A LICENSED SURVEYOR AND INCLUDE REPRESENTATIVE SURVEY POINTS WITH ELEVATIONS TAKEN AT TOP OF WALL, BOTTOM OF WALL, CENTER OF BASIN, INLETS, OUTFALLS, OVERFLOW STRUCTURES, AND SIDE SLOPES. ADDITIONAL SURVEY POINTS MAY BE REQUESTED AT THE DISCRETION OF THE CITY INSPECTOR TO ENSURE BASIN INTEGRITY.

WATER QUALITY NOTE:

IMPROVEMENTS PROPOSED ARE AN EXPANSION TO THE WATER QUALITY IMPROVEMENTS PERMITTED WITH 2017 SITE PLAN. AS SUCH, CALCULATIONS UTILIZE EXISTING CONDITIONS PRIOR TO THOSE IMPROVEMENTS AND PROVIDE 100% TSS REMOVAL FOR INCREASE FROM THAT POINT.

SITE PLAN APPROVAL SHEET 07 OF 13
 FILE NUMBER 2023-228 APPLICATION DATE 3/13/23
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 UNIFIED DEVELOPMENT CODE.
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DATE	
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FLAKE ENGINEERING
 TRAVIS@FLAKEENGINEERING.COM
 201 GROVE LANE, BUDA, TX 78610 (512) 468-6248

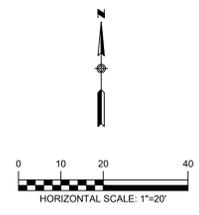
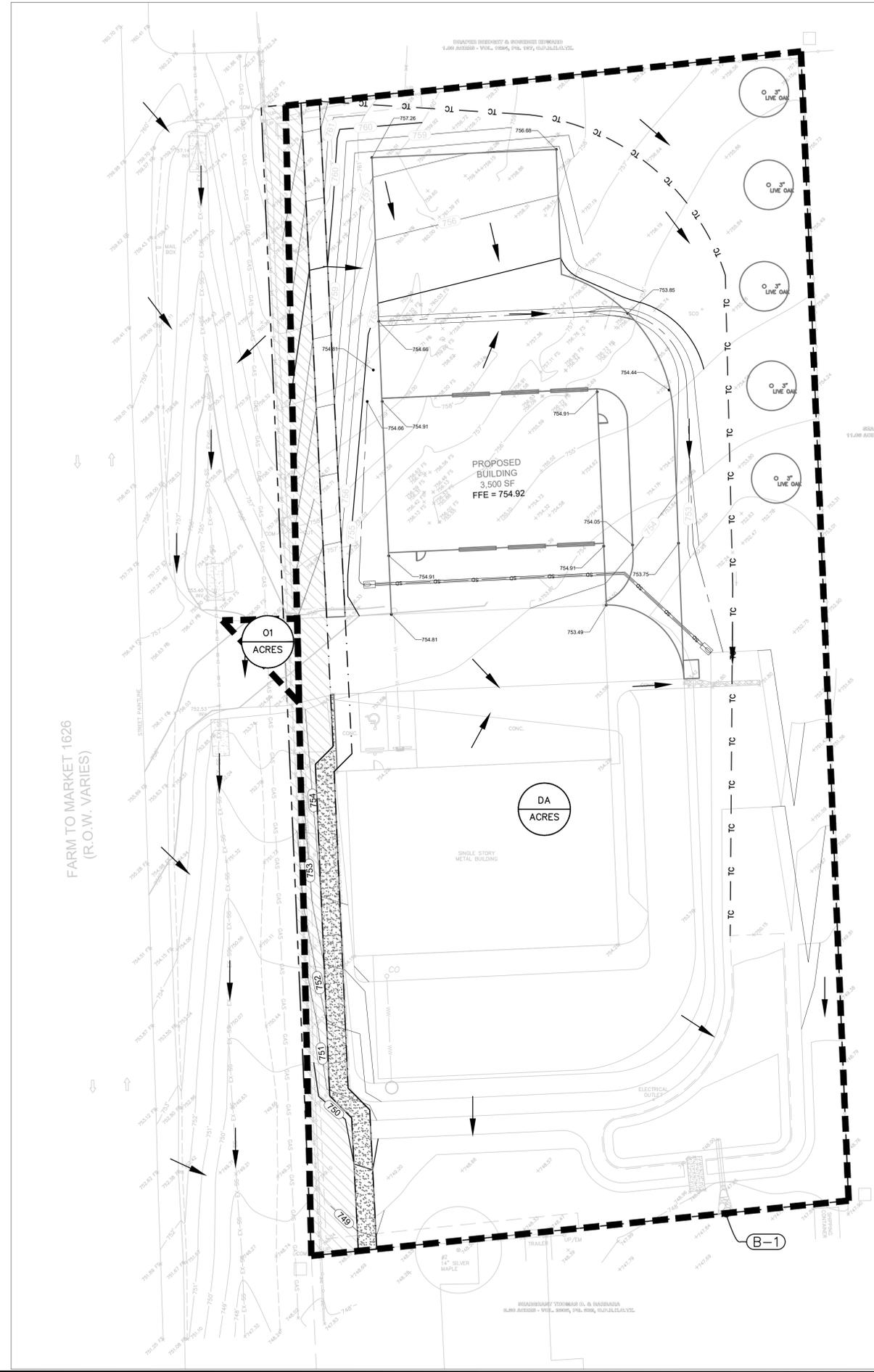
GRADING, DRAINAGE, & WATER QUALITY PLAN

DRIFTWOOD DIESEL BUDA EXPANSION
 1185 FM 1626 DR, BUDA, TEXAS

PRO. NO. 033-001
 SHEET 07 OF 13

2023-228

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- LEGEND**
- 700 --- EXISTING CONTOURS
 - 700 --- PROPOSED CONTOURS
 - --- DRAINAGE AREA
 - TC - TC - TIME OF CONCENTRATION
 - A-1 ○ POINT OF ANALYSIS
 - ← DRAINAGE FLOW DIRECTION
 - DA ACRES DRAINAGE AREA LABEL

- NOTES:**
1. ON-SITE SURVEY TOPOGRAPHIC INFORMATION PROVIDED BY SPOT-ON SURVEYING OBTAINED ON 04-29-2023.
 2. OFF-SITE TOPOGRAPHIC INFORMATION OBTAINED FROM TEXAS NATURAL RESOURCES INFORMATION SYSTEM.
 3. REFER TO DETENTION POND PLAN SHEETS FOR ADDITIONAL DRAINAGE CALCULATIONS AND DETAILS.

NO.	REVISION	DATE



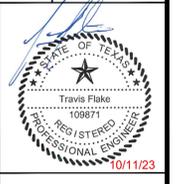
PROPOSED DRAINAGE AREA MAP

DRIFTWOOD DIESEL BUDA EXPANSION
1185 FM 1626 DR, BUDA, TEXAS

SITE PLAN APPROVAL SHEET 09 OF 13
 FILE NUMBER 2023-228 APPLICATION DATE 3/13/23
 APPROVED BY COMMISSION ON N/A UNDER THE CITY OF BUDA
 UNIFIED DEVELOPMENT CODE.
 EXPIRATION DATE CASE MANAGER T. FROST

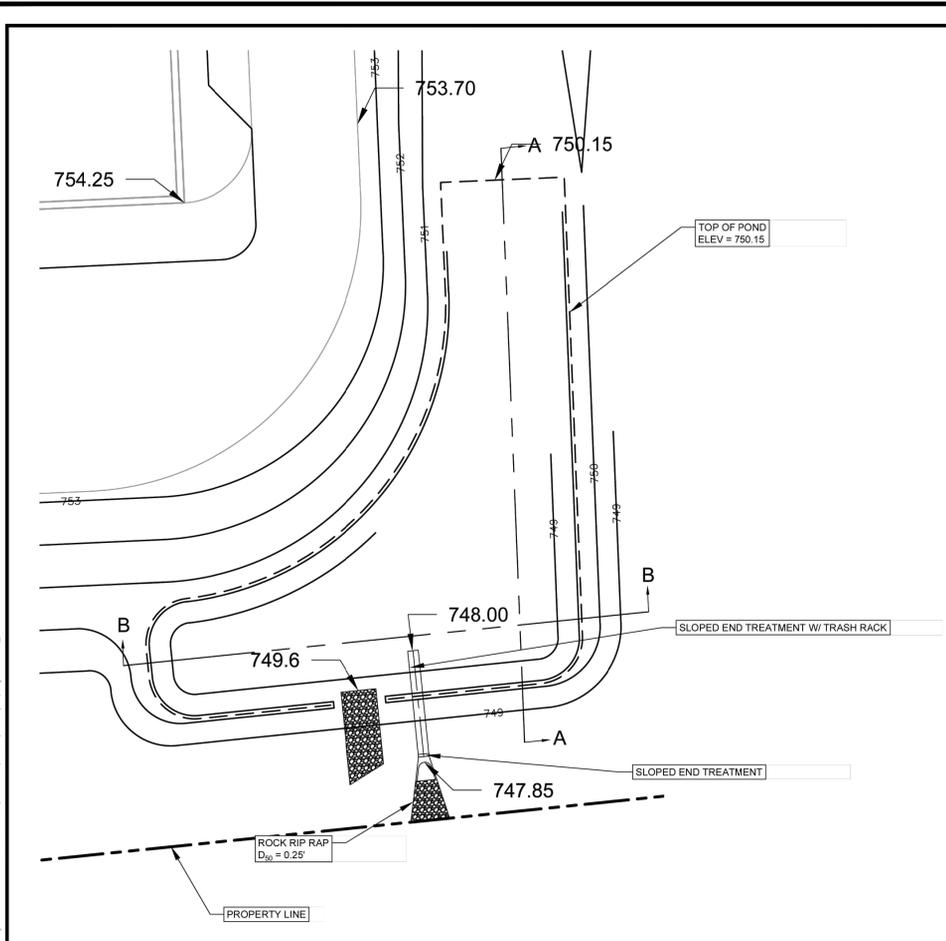
CITY ENGINEER, CITY OF BUDA
 RELEASED FOR GENERAL COMPLIANCE: ZONING N/A
 Rev. 1 Correction 1
 Rev. 2 Correction 2
 Rev. 3 Correction 3

Final plat must be recorded by the Project Expiration Date, if applicable.
 Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.



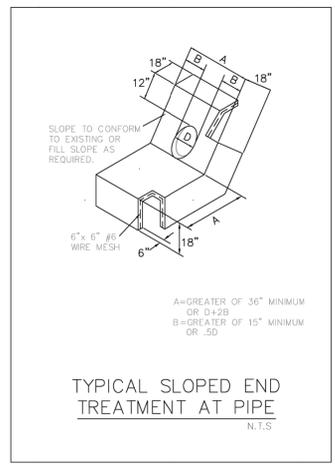
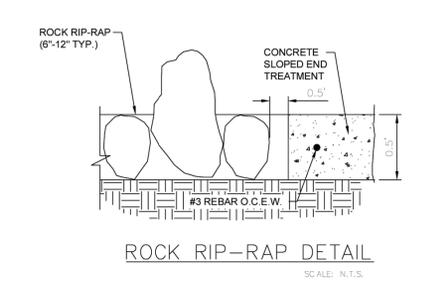
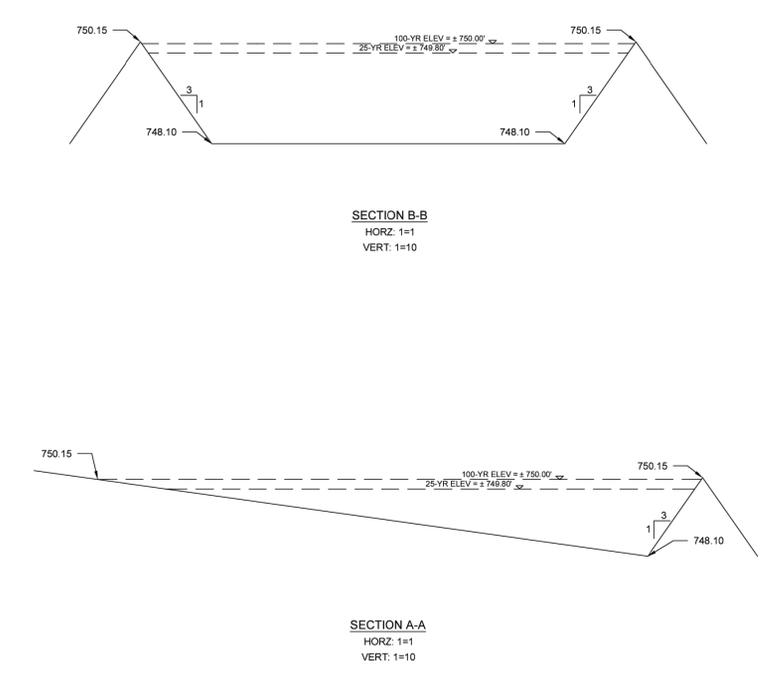
PRO. NO. 033-001
 SHEET 09 OF 13

D:\Projects\033_Driftwood Diesel\Buda Expansion\CAD Sheets\033-001_COVER.dwg - Layout: "REFERENCE DETENTION POND DETAILS" - Wed, Oct 11, 2023, 3:15pm, By: TravisFlake



Peak Flow		
	25-yr	100-yr
Pre	10.58	13.43
Post	10.53	13.37
Det. El.	749.80	750.00

Elevation-Area	
748.00	0.000 acres
749.00	0.023 acres
750.00	0.048 acres
750.15	0.053 acres



TEXAS ONE CALL SYSTEM
1-800-245-4545

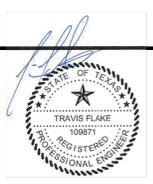
UNDER PENALTY OF LAW, THE CONTRACTOR IS REQUIRED TO CONTACT THE TEXAS ONE CALL SYSTEM AT LEAST 48 HOURS BEFORE STARTING EXCAVATION.

CAUTION - ELECTRICITY PRESENT

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC LINES OR FROM DAMAGING, DIGGING UP OR UNCOVERING THE ELECTRIC LINES, GETTING A LADDER IN HARMS WAY OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL, IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES THE ENGINEER AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.

NO.	REVISION	DATE

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TRAVIS FLAKE, P.E. #109871 ON THE DATE INDICATED. ANY ALTERATIONS OF THIS SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



SOUTHWEST ENGINEERS
Civil | Environmental | Land Development

GONZALES
307 St. Lawrence St.
Gonzales, TX 78629
P: 830.672.7546
F: 830.672.2034

BUDA
142 Cimarron Park Loop
Suite A
Buda, TX 78610
P: 512.312.4336

TXBE NO. F-1909
WWW.SWENGINEERS.COM
SWE@SWENGINEERS.COM

WARNING
IF THIS BAR DOES NOT MEASURE 1", THE DRAWING IS NOT TO SCALE.

DRAWN BY: LG DATE: 01/18/17
CHECKED BY: TF DATE: 01/18/17

DETENTION POND DETAILS

DRIFTWOOD DIESEL
1185 FM 1626, BUDA TEXAS 78610

PROJECT NO. 700-001-17
DRAWING NO. _____
SHEET 10 OF 12

PROJECT NO.	700-001-17
DRAWING NO.	_____
SHEET	10 OF 12

SITE PLAN APPROVAL SHEET 11 OF 13
FILE NUMBER 2023-228 APPLICATION DATE 3/13/23
APPROVED BY COMMISSION ON N/A UNDER THE CITY OF BUDA UNIFIED DEVELOPMENT CODE.
EXPIRATION DATE _____ CASE MANAGER T. FROST

CITY ENGINEER, CITY OF BUDA
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING N/A
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

FOR REFERENCE ONLY
NOT TO SCALE

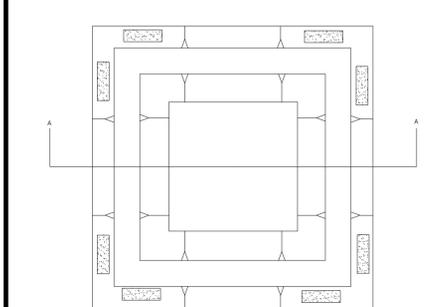
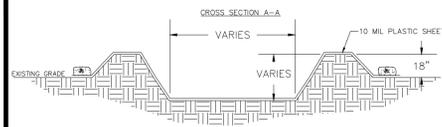
FLAKE ENGINEERING
TRANIS@FLAKEENGINEERING.COM
201 GROVELANE, BUDA, TX 78602 | 488-6248

REFERENCE DETENTION POND DETAILS

DRIFTWOOD DIESEL BUDA EXPANSION
1185 FM 1626 DR, BUDA, TEXAS

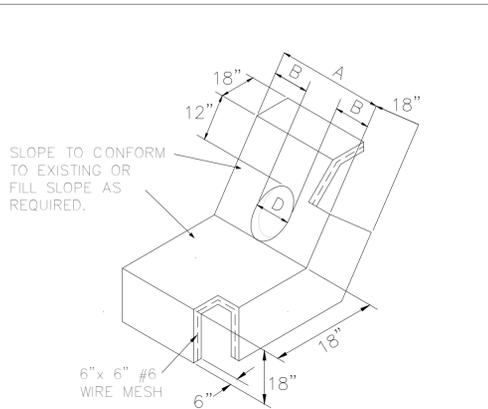
PRO. NO. 033-001
SHEET 11 OF 13

NO.	REVISION	DATE



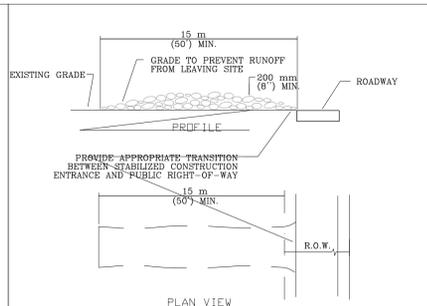
NOTES:
 1. SET LENGTH AND WIDTH AS NECESSARY TO PROVIDE ADEQUATE SPACE FOR WASHOUT ACTIVITIES.
 2. IF RESTRICTED BY DEPTH DUE TO BELOW GRADE UTILITIES, PLACE EARTHEN BERMS AT GRADE.
 3. USE EXCAVATED MATERIAL TO CREATE EARTHEN BERMS SURROUNDING THE AREA TO BE DESIGNATED AS A CONCRETE WASHOUT.
 4. PLACE 10ML OR GREATER PLASTIC SHEETING.
 5. SECURE SHEETING ON OUTSIDE OF BERM AREA USING SAND BAGS OR ROCK EQUIVALENT.

CONCRETE WASHOUT DETAIL
 SCALE: N.T.S.



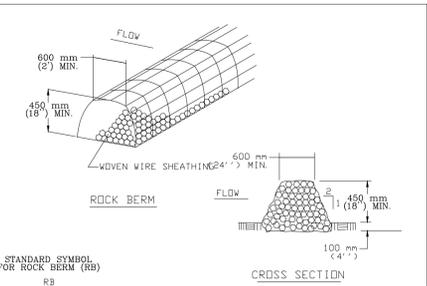
6" x 6" #6 WIRE MESH
 A=GREATER OF 36" MINIMUM OR D+2B
 B=GREATER OF 15" MINIMUM OR .5D

SAFETY END TREATMENT
 N.T.S.



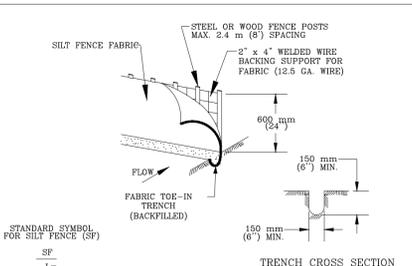
NOTES:
 1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
 2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
 3. THICKNESS: NOT LESS THAN 300 mm (8").
 4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
 5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
 6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
 7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERRES PROTECTION DEPARTMENT
 STABILIZED CONSTRUCTION ENTRANCE
 RECORD COPY SIGNED BY J. PATRICK MURPHY 5/23/00 ADOPTED
 STANDARD NO. 641S-1



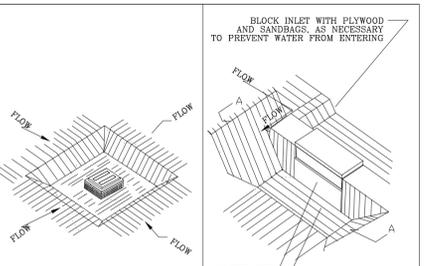
NOTES:
 1. USE ONLY OPEN GRADED ROCK 75 to 125 mm (3 to 5") DIAMETER FOR ALL CONDITIONS.
 2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 25 mm (1") OPENING AND MINIMUM WIRE DIAMETER OF 12.9 mm (20 GAUGE).
 3. THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
 4. IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6"), WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION PROBLEM.
 5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

CITY OF AUSTIN WATERRES PROTECTION DEPARTMENT
 ROCK BERM
 RECORD COPY SIGNED BY MORGAN BYARS 8/24/2010 ADOPTED
 STANDARD NO. 639S-1



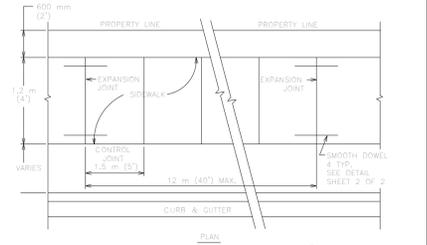
NOTES:
 1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 500 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 INCHES) DEPTH, USE STEEL POSTS.
 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
 3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 INCHES) DEEP AND 150 mm (6 INCHES) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
 4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.
 5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPED SYSTEM FLOW OR DRAINAGE.
 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 INCHES). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERRES PROTECTION DEPARTMENT
 SILT FENCE
 RECORD COPY SIGNED BY MORGAN BYARS 09/01/2011 ADOPTED
 STANDARD NO. 642S-1



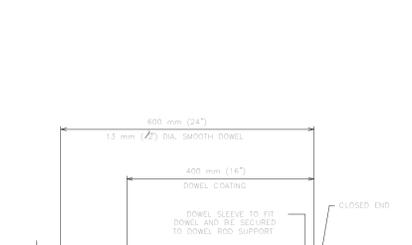
NOTES:
 WHERE CURB IS IN PLACE, PROVIDE A 300 mm (12") WIDE OPENING IN THE CURB OR USE A SANDBAG TO DAM TO FORCE WATER OVER THE CURB TO THE TRAP.

CITY OF AUSTIN WATERRES PROTECTION DEPARTMENT
 STORM INLET SEDIMENT TRAP
 RECORD COPY SIGNED BY J. PATRICK MURPHY 3/27/00 ADOPTED
 STANDARD NO. 632S-1



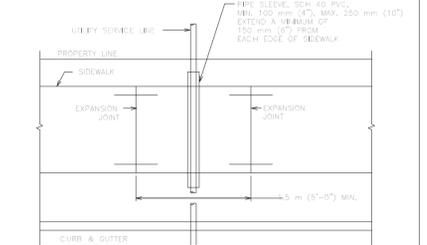
NOTES:
 REINFORCEMENT SHALL ACCURATELY PLACED AT 50 mm DEPTH AND HELD AWAY BY MEANS OF BAR SUPPORTS OF ADEQUATE STRENGTH AND NUMBER THAT WILL PREVENT DEFORMATION AND KEEP THE STEEL AT ITS PROPER POSITION DURING THE PLACEMENT OF THE P.C. CONCRETE. IN NO INSTANCE SHALL THE STEEL BE PLACED DIRECTLY ON THE SUBGRADE OR SAND CUSHION JOINT.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
 SIDEWALK
 RECORD COPY SIGNED BY BILL GARDNER 03/24/08 ADOPTED
 STANDARD NO. 432S-1



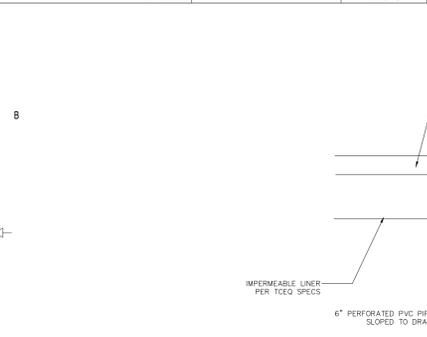
NOTES:
 1. THIS STANDARD APPLIES TO THE INSTALLATION OF NEW UTILITIES OR UTILITIES BEING REPLACED BY A NEW LINE.
 2. NO JOINTS IN UTILITY SERVICE PIPE TO BE LOCATED INSIDE PVC PIPE SLEEVE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
 SIDEWALK
 RECORD COPY SIGNED BY BILL GARDNER 03/24/08 ADOPTED
 STANDARD NO. 432S-1

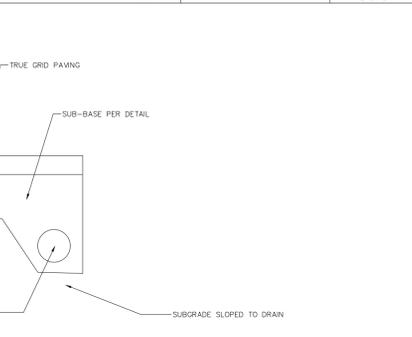


NOTES:
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 2. NO JOINTS IN UTILITY SERVICE PIPE TO BE LOCATED INSIDE PVC PIPE SLEEVE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
 SIDEWALK
 RECORD COPY SIGNED BY BILL GARDNER 03/24/08 ADOPTED
 STANDARD NO. 432S-1

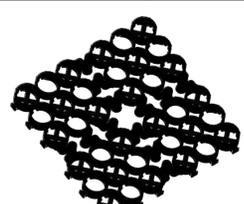


PERMEABLE PAVER LINER AND UNDERDRAIN DETAIL
 SCALE: N.T.S.

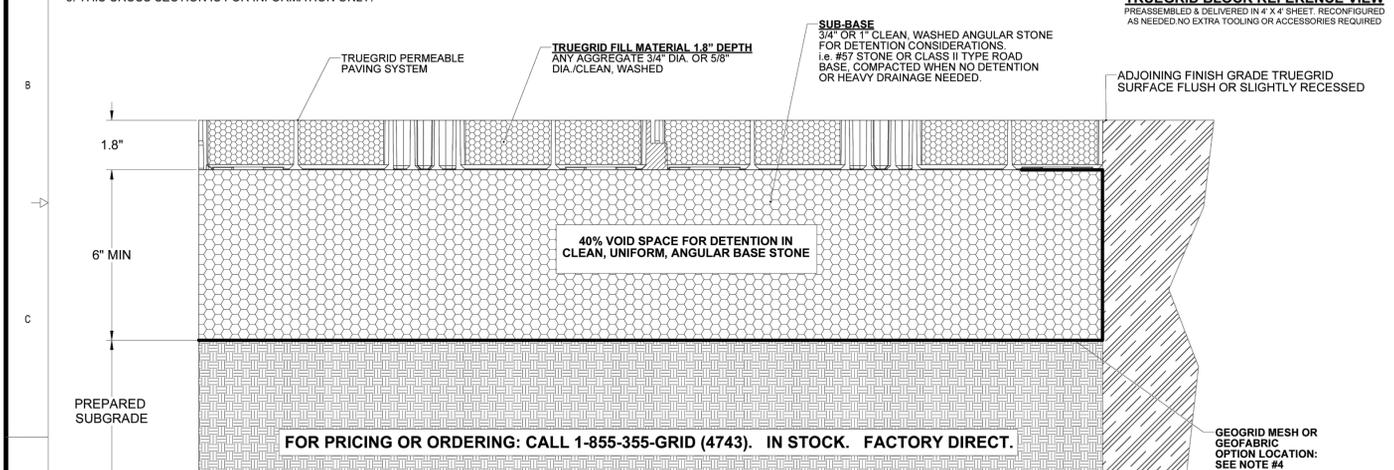


TRUE GRID PAVING
 SCALE: N.T.S.

- NOTES:
 1. SUB-BASE DEPTH AND PREPARATION IS DEPENDENT ON SITE CONDITIONS PLUS LOADING REQUIREMENTS.
 2. TRUEGRID PRO PLUS PRODUCTS DESIGNED FOR LOAD CAPACITIES OF 120,000 LBS PER SQ. FT. TRUEGRID PRODUCTS STRENGTHEN WITH FILL MATERIAL.
 3. TRUEGRID PRO PLUS PRODUCTS ARE SUFFICIENTLY RATED FOR H-20 /HS-20 LOADING AND GREATER.
 4. GEOGRID MESH OR GEOFABRIC MAY BE REQUIRED BETWEEN SUB-GRADE & SUB-BASE FOR CERTAIN SOILS AND SITE SPECIFIC REQUIREMENTS.
 5. INCREASE SUB-BASE DEPTH FOR INCREASED STORM WATER DETENTION.
 6. NO STAKING NECESSARY WITH TRUEGRID PRO PLUS WHEN SLOPE IS BELOW 10 DEGREES. ASSESS PROJECT, AS NEEDED.
 7. FINAL ENGINEERED CROSS SECTION AGGREGATES AND DEPTH SHOULD ALLOW FOR EXPECTED INFILTRATION RATES, STORAGE CAPACITIES, OUTLET FLOW RATES, AND OTHER SITE SPECIFIC CONDITIONS AND LOAD REQUIREMENTS.
 8. THIS CROSS SECTION IS FOR INFORMATION ONLY.



TRUEGRID BLOCK REFERENCE VIEW
 PREASSEMBLED & DELIVERED IN 4' X 4' SHEET. RECONFIGURED AS NEEDED NO EXTRA TOOLING OR ACCESSORIES REQUIRED



FOR PRICING OR ORDERING: CALL 1-855-355-GRID (4743). IN STOCK. FACTORY DIRECT.

GRAVEL FILL MEDIUM LOAD TRUEGRID PRO PLUS

APPLICATION: PARKING LOT, RV PARKING, PARKING PADS, DRIVEWAYS

1-855-355-GRID (4743)

MADE IN U.S.A. TRUEGRIDPAVER.COM

CLIENT / PROJECT: TRUEGRID GRAVEL FILL INSTALLATION MEDIUM LOAD

APPROVAL INFORMATION: J. DUFFY 11/20/16

DO NOT SCALE DRAWING

REV	DESCRIPTION	DATE	BY	CHECKED	APPROVED
00					
03	UPDATED TRUEGRID STANDARDS	9/20/2017	JT	JT	CW



DRIFTWOOD DIESEL BUDA EXPANSION
 1185 FM 1626 DR., BUDA, TEXAS

SITE PLAN APPROVAL SHEET 13 OF 13

FILE NUMBER 2023-228 APPLICATION DATE 3/13/23

APPROVED BY COMMISSION ON N/A UNDER THE CITY OF BUDA UNIFIED DEVELOPMENT CODE.

EXPIRATION DATE CASE MANAGER T. FROST

CITY ENGINEER, CITY OF BUDA

RELEASED FOR GENERAL COMPLIANCE: ZONING N/A

Rev. 1 Correction 1
 Rev. 2 Correction 2
 Rev. 3 Correction 3

PRO. NO. 033-001

SHEET 13 OF 13

**PERMANENT STORMWATER SECTION
ATTACHMENT G**

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

PROJECT NAME: Driftwood Diesel
ADDRESS: 1185 FM 1626
CITY, STATE ZIP: Buda, TX 78610

MAINTENANCE GUIDELINES FOR GRASSY SWALES:

Grassy swales require minimal maintenance largely aimed at keeping grass cover dense and vigorous.

Pest Management:

An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides or herbicides.

Seasonal Mowing and Lawn Care:

Lawn mowing should be performed routinely, as needed, throughout the growing season. Grass height should not exceed 18 inches. Grass cuttings should be collected and disposed of offsite, or a mulching mower can be used. Regular mowing should also include weed control practices; however, herbicide use should be kept to a minimum.

Inspection

Inspect swales at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The swale should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections should be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.

Debris and Litter Removal

Trash tends to accumulate in swale areas. Any swale structures should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than two times per year.

Sediment Removal

Sediment accumulating in channels needs to be removed when they build up to 3 inches at any spot, or cover vegetation. Excess sediment should be removed by hand or with flat-bottomed shovels. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level with the bottom of the swale. Sediment removal should be performed periodically, as determined through inspection.

Grass Reseeding and Mulching

A healthy dense grass should be maintained in the channel and side slopes. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during swale establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established.

MAINTENANCE GUIDELINES FOR GRASSY SWALES:

The primary threat to the performance of permeable paver systems is clogging. The largest clogging threats to the system occur during construction and from landscaping.

During Construction:

Contractors may use pavement areas to store materials such as sand, gravel, soil, or landscape materials containing fines. The owner or supervising contractor must require all contractors to protect the pavement using heavy visqueen or plywood under these materials. The same materials are to be covered in order to prevent blowing and or washing away of such materials during wind and or rain events. It is recommended that protection of the permeable paver system be discussed at the project pre-construction meeting and be reinforced during interim construction.

During Construction and Post Construction:

It is suggested that signs be posted in landscape areas and at entrances to the property as reminders of an ecologically sensitive pavement structure and that certain guidelines be adhered to including: Dirt, sand, gravel, or landscape material must not be piled without first covering the pavement with a durable cover to protect the integrity of the pervious surface; all landscape cover must be graded to prevent washing and/or floating of such materials onto or through the pervious surface; and all chemical spills (including petrochemicals, hydrocarbons, pesticides, and herbicides) should be reported to the owner so the owner can prevent uncontrolled migration. Chemical migration control may require flushing, or the introduction of microbiological organisms to neutralize any impacts to the soil or water.

Post Construction:

Unclog the pavers of trash and debris by removing twigs, trash, leaves, and other debris.

At least three times a year after heavy rain, inspect the pavers looking for pooling water and visible dirt material in the gaps between the pavers.

When a serious clog is identified which can not be fixed with a broom or other basic tools, or at least twice a year, power wash the gravel to clear out any dirt clumps.

Permeability testing of the pavement system should occur at least every three years to determine whether the pavement has become clogged. The test should be conducted with a double ring infiltrometer in one representative location for each 2000 ft² of pavement. A minimum infiltration rate of five inches/hour is required. All waste, including the removed materials, must be disposed of in accordance with local, state, and federal laws and regulations.

Documenting Inspections: Inspection, maintenance, repairs, and retrofits performed per the above requirements must be documented and records thereof maintained with the WPAP.

The following format may be used to document the required maintenance:

Facility Name: Driftwood Diesel

Date of Inspection: _____

Reason of Inspection/Action: _____
(Monthly, Quarterly, Yearly, Rainfall, Other)

Batch Detention Pond Conditions: _____

Grassy Swale Conditions: _____

Detailed Description of Actions Taken: _____

Owner/Responsible Party: Christopher Rickman
(Name Typed)

Entity: Driftwood Diesel, LLC
Mailing Address: 1185 FM 1626
City, State: Buda, TX Zip: 78710
Telephone: _____
Fax: _____

I, Chris Rickman, for Driftwood Diesel, agree to maintain the BMP's according the above recommended maintenance plan, until such time the ownership transfers.



Signature of Owner or Responsible Party

10-13-23
Date

**PERMANENT STORMWATER SECTION
ATTACHMENT H**

PILO-SCALE FIELD TESTING PLAN

This section is Not Applicable (N/A) for this project.

**PERMANENT STORMWATER SECTION
ATTACHMENT I**

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

Proposed improvements are not expected to change the way in which water enters the stream or affects stream flashing, in-stream velocities, and other in-stream effects.



VII.

**AGENT AUTHORIZATION FORM
(TCEQ-0599)**

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

I _____ Chris Rickman _____
Print Name
_____ Owner _____
Title - Owner/President/Other
of _____ Driftwood Diesel _____
Corporation/Partnership/Entity Name
have authorized _____ Travis Flake _____
Print Name of Agent/Engineer
of _____ Flake Engineering, PLLC _____
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:

Chris Rickman
Applicant's Signature

10-12-23
Date

THE STATE OF Texas §

County of Hays §

BEFORE ME, the undersigned authority, on this day personally appeared Chris Rickman 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 12 day of October.

Misti Michelle Ayers
NOTARY PUBLIC

Misti Michelle Ayers
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: November 17th 2024



VIII.

**APPLICATION FEE FORM
(TCEQ-0574)**

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Driftwood Diesel
 Regulated Entity Location: 1185 FM 1626, Buda, Texas 78610
 Name of Customer: Chris Rickman
 Contact Person: Travis Flake Phone: 512 468 6248
 Customer Reference Number (if issued): CN 605379189
 Regulated Entity Reference Number (if issued): RN 109814004
Austin Regional Office (3373)

- Hays Travis Williamson

San Antonio Regional Office (3362)

- Bexar Medina Uvalde
 Comal Kinney

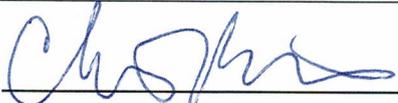
Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment.** This payment is being submitted to:

- Austin Regional Office San Antonio Regional Office
 Mailed to: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier
 Revenues Section 12100 Park 35 Circle
 Mail Code 214 Building A, 3rd Floor
 P.O. Box 13088 Austin, TX 78753
 Austin, TX 78711-3088 (512)239-0357

Site Location (Check All That Apply):

- Recharge Zone Contributing Zone 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	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	1 Each	\$ 500
Extension of Time	Each	\$

Signature: 

Date: 10-13-23

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

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

<i>Project</i>	<i>Fee</i>
Exception Request	\$500

Extension of Time Requests

<i>Project</i>	<i>Fee</i>
Extension of Time Request	\$150



IX.

CHECK PAYABLE TO TCEQ



X.

**CORE DATA FORM
(TCEQ-10400)**



TCEQ Core Data Form

TCEQ Use Only

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> 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 605379189		RN 109814004

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	11/2/2023	
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> 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: e.g.: Doe, John)		If new Customer, enter previous Customer below:	
Driftwood Diesel LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
	32048831211	46-090552	
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) - as it relates to the Regulated Entity listed on this form. Please check one of the following:			
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:	PO Box 1023		
	City	Buda	State TX ZIP 78610 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(512) 295 - 7400		() -	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If "New Regulated Entity" is selected below this form should be accompanied by a permit application)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Driftwood Diesel LLC	

23. Street Address of the Regulated Entity: (No PO Boxes)	1185 FM 1626							
	City	Buda	State	TX	ZIP	78610	ZIP + 4	
24. County	Hays							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:									
26. Nearest City					State			Nearest ZIP Code	
27. Latitude (N) In Decimal:				28. Longitude (W) In Decimal:					
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds				
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
7538				811111					

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

Automotive repair and maintenance for diesel vehicles

34. Mailing Address:									
	City		State		ZIP		ZIP + 4		
35. E-Mail Address:									
36. Telephone Number			37. Extension or Code		38. Fax Number (if applicable)				
() -					() -				

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

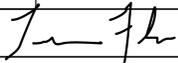
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Travis Flake			41. Title:	Principal		
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address				
(512) 468 - 6248		() -	travis@flakeengineering.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:	Flake Engineering	Job Title:	Principal
Name (In Print):	Travis Flake	Phone:	(512) 468 - 6248
Signature:		Date:	11/2/2023