### ARIZA 290 WEST – WWTP

## **Contributing Zone Plan Application and**

### **Optional Enhanced Measures**





March 4, 2024

Ms. Lillian Butler Texas Commission on Environmental Quality (TCEQ) 12100 Park 35 Circle Building A, Room 179 Austin, TX 78753

Re: Ariza 290 West – WWTP Contributing Zone Plan Application and Optional Enhanced Measures

Dear Ms. Butler:

Please find included herein the Ariza 290 West – WWTP Contributing Zone Plan Application and Optional Enhanced Measures. This Contributing Zone Plan Application has been prepared in accordance with the Texas Administrative Code (30 TAC 213) and current policies for development over the Edwards Aquifer Contributing Zone. The Optional Enhanced Measures are prepared in accordance with Appendix A to RG-348 (RG-348A).

This Contributing Zone Application applies to an approximately 9.167-acre site as identified by the project limits. Please review the plan information for the items it is intended to address. If acceptable, please provide a written approval of the plan in order that construction may begin at the earliest opportunity.

Appropriate review fees (\$5,000) have been retained from previous withdraw of an application under RN111458402 for \$6,500 to be applied to this application and subsequent multi-family application. If you have questions or require additional information, please do not hesitate to contact me at your earliest convenience.



Attachments

H:\Projects\513\12\00\301 Construction Documents\Documents\CZP - SPLIT\WWTP\240304a1 Letter.docx

Transportation | Water Resources | Land Development | Surveying | Environmental

### ARIZA 290 WEST – WWTP

# **Contributing Zone Plan Application and Optional Enhanced Measures**



March 2024

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## 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 <u>30 TAC 213</u>.

#### **Administrative Review**

1. <u>Edwards Aquifer applications</u> must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
- 3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
- 4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

- 5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
- 6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

#### **Technical Review**

- 1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
- 2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

- 3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
- 4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

#### **Mid-Review Modifications**

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name:			2. Regulated Entity No.:						
3. Customer Name:			4. Customer No.:						
5. Project Type: (Please circle/check one)	New	)	Modif	icatior	1	Exter	nsion	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)	Resider	ntial	Non-r	esiden	tia		8. Sit	e (acres):	9.167
9. Application Fee:			10. Po	ermai	nent I	BMP(	s):		
11. SCS (Linear Ft.):			12. AST/UST (No. Tanks):			nks):			
13. County:			14. W	aters	hed:				

### **Application Distribution**

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

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

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

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

	Sa	an Antonio Region			
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)					
Region (1 req.)					
County(ies)			_		
Groundwater Conservation District(s)	Edwards Aquifer Authority Trinity-Glen Rose	Edwards Aquifer Authority	Kinney	EAA Medina	EAA Uvalde
City(ies) Jurisdiction	Castle Hills Fair Oaks Ranch Helotes Hill Country Village Hollywood Park San Antonio (SAWS) Shavano Park	Bulverde Fair Oaks Ranch Garden Ridge New Braunfels Schertz	NA	San Antonio ETJ (SAWS)	NA

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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.

Print Name of Customer/Authorized Agent

03/05/2024

Signature of Customer/Authorized Agent

Date

**FOR TCEQ INTERNAL USE ONLY	/**		
Date(s)Reviewed:	Date	Date Administratively Complete:	
Received From:	Corre	rect Number of Copies:	
Received By:	Distr	tribution Date:	
EAPP File Number:	Comj	nplex:	
Admin. Review(s) (No.):	No. A	AR Rounds:	
Delinquent Fees (Y/N):	Revie	iew Time Spent:	
Lat./Long. Verified:	SOS	S Customer Verification:	
Agent Authorization Complete/Notarized (Y/N):	Fee	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):	Check		
Core Data Form Incomplete Nos.:		Less than 90 days old (Y/N):	

## CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

### **Contributing Zone Plan Application**

**Texas Commission on Environmental Quality** 

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), 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 **Contributing Zone Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Shelly Mitchell, P.E.

Date: 03/05/2024

Signature of Customer/Agent:

Shelly Mitchell

Regulated Entity Name: Ariza 290 West - WWTP

#### **Project Information**

- 1. County: <u>Hays</u>
- 2. Stream Basin: Long Branch
- 3. Groundwater Conservation District (if applicable): Hays Trinity GCD
- 4. Customer (Applicant):

Contact Person: Luis BordesEntity: Cypressbrook 290 LPMailing Address: 1776 Woodstead Ct. Ste 218City, State: Spring, TXZip: 78620Telephone: (832) 602-4779Fax: \_\_\_\_\_Email Address: LBordes@cypressbrook.com

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5. Agent/Representative (If any):

Contact Person: Shelly Mitchell, P.E.Entity: Pape-Dawson Engineers, Inc.Mailing Address: 10801 North Mopac Expressway, Building 3 - Suite 200City, State: Austin, TexasZip: 78759Telephone: (512) 454-8711Fax: \_\_\_\_\_Email Address: smitchell@pape-dawson.com

6. 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 <u>Dripping Springs</u>.

The project site is not located within any city's limits or ETJ.

7. The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

<u>From TCEQ's Regional Office, proceed south on I-35 approximately 21.2 miles to US-290W and turn right to travel west. Continue approximately 13.9 miles to the project site. The physical address is 13900 West US-290, Dripping Springs.</u>

- 8. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.
- 9. Attachment B USGS Quadrangle Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:

Project site boundaries.
USGS Quadrangle Name(s).

- 10. Attachment C Project Narrative. A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:
  - Area of the site
  - Impervious cover
  - Permanent BMP(s)
  - Proposed site use

Site history

Previous development

- 🔀 Area(s) to be demolished
- 11. 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/Not cleared)
 Other: \_\_\_\_\_

12. The type of project is:

	Residential: # of Lots:
	Residential: # of Living Unit Equivalents:
$\boxtimes$	Commercial
	Industrial
	Other:

13. Total project area (size of site): <u>9.167</u> Acres

Total disturbed area: <u>9.167</u> Acres

- 14. Estimated projected population: N/A
- 15. The amount and type of impervious cover expected after construction is complete is shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	10,541	÷ 43,560 =	0.242
Parking		÷ 43,560 =	
Other paved surfaces	16,596	÷ 43,560 =	0.381
Total Impervious Cover	27,137	÷ 43,560 =	0.623

#### Table 1 - Impervious Cover

Total Impervious Cover  $0.623 \div$  Total Acreage  $9.167 \times 100 = 6.8\%$  Impervious Cover

- 16. Attachment D Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.
- 17. 🛛 Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

#### For Road Projects Only

*Complete questions 18 - 23 if this application is exclusively for a road project.* 

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🗌 N/A

18. Type of project:

TXDOT road project. County road or roads built to county specifications. City thoroughfare or roads to be dedicated to a municipality. Street or road providing access to private driveways. 19. Type of pavement or road surface to be used: Concrete Asphaltic concrete pavement Other: 20. Right of Way (R.O.W.): Length of R.O.W.: feet. Width of R.O.W.: feet.  $L \times W = Ft^2 \div 43,560 Ft^2/Acre = acres.$ 21. Pavement Area: Length of pavement area: \_\_\_\_\_ feet. Width of pavement area: \_\_\_\_\_\_ feet.  $L \times W = Ft^2 \div 43,560 Ft^2/Acre = ____acres.$ Pavement area acres ÷ R.O.W. area acres x 100 = % impervious cover.

22. A rest stop will be included in this project.

A rest stop will not be included in this project.

23. Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

#### Stormwater to be generated by the Proposed Project

24. Attachment E - Volume and Character of Stormwater. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

#### Wastewater to be generated by the Proposed Project

25. Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

🗌 N/A

26. Wastewater will be disposed of by:

On-Site Sewage Facility (OSSF/Septic Tank):

Attachment F - Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.

Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the <u>Ariza 290 West</u> (name) Treatment Plant. The treatment facility is:

	Existing.
$\boxtimes$	Proposed.

□ N/A

#### Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.

N/A

27. Tanks and substance stored:

Table 2 - Tanks and	Substance Storage
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AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1			
2			
3			
4			
5			

Total x 1.5 = \_\_\_\_ Gallons

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

Attachment G - Alternative Secondary Containment Methods. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

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

Length (L)(Ft.)	Width(W)(Ft.)	Height (H)(Ft.)	L x W x H = (Ft3)	Gallons
			Т	ntal· Gal

#### **Table 3 - Secondary Containment**

30. Piping:

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

Some of the piping to dispensers or equipment will extend outside the containment structure.

] The piping will be aboveground

The piping will be underground

- 31. The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of:
- 32. Attachment H AST Containment Structure Drawings. A scaled drawing of the containment structure is attached that shows the following:

Interior dimensions (length, width, depth and wall and floor thickness).

Internal drainage to a point convenient for the collection of any spillage.

Tanks clearly labeled

Piping clearly labeled

Dispenser clearly labeled

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

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

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

#### Site Plan Requirements

#### Items 34 - 46 must be included on the Site Plan.

34.  $\square$  The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = <u>40</u>'.

35. 100-year floodplain boundaries:

Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): <u>DFIRM (Digital Flood Insurance Rate Map for Hays County) Panel</u> <u>Number: 48209C0115F dated September 02, 2005</u>.

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

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

- 37.  $\square$  A drainage plan showing all paths of drainage from the site to surface streams.
- 38. 🖂 The drainage patterns and approximate slopes anticipated after major grading activities.
- 39.  $\square$  Areas of soil disturbance and areas which will not be disturbed.
- 40. 🖂 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 41. 🛛 Locations where soil stabilization practices are expected to occur.
- 42. Surface waters (including wetlands).

🖂 N/A

- 43. Locations where stormwater discharges to surface water.
  - There will be no discharges to surface water.

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- 44. Temporary aboveground storage tank facilities.
  - Temporary aboveground storage tank facilities will not be located on this site.
- 45. Permanent aboveground storage tank facilities.

Permanent aboveground storage tank facilities will not be located on this site.

46.  $\square$  Legal boundaries of the site are shown.

#### Permanent Best Management Practices (BMPs)

#### Practices and measures that will be used during and after construction is completed.

47. Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.



48. 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

49. 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.



50. 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.

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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.

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

Attachment I - 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.

#### 52. X Attachment J - 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.

#### 53. X Attachment K - 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.

54. Attachment L - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.

\_\_\_\_ N/A

55. 🖂	Attachment M - Construction Plans. Construction plans and design calculations for the
	proposed permanent BMPs and measures have been prepared by or under the direct
	supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and
	dated. Construction plans for the proposed permanent BMPs and measures are
	attached and include: Design calculations, TCEQ Construction Notes, all proposed
	structural plans and specifications, and appropriate details.

□ N/A

56. Attachment N - Inspection, Maintenance, Repair and Retrofit Plan. A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:

Prepared and certified by the engineer designing the permanent BMPs and measures

Signed by the owner or responsible party

- Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
- Contains a discussion of record keeping procedures

\_\_\_\_ N/A

57. Attachment O - 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

58. Attachment P - 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 result in water quality degradation.

🗌 N/A

#### Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

59. 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. 60. 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.

#### Administrative Information

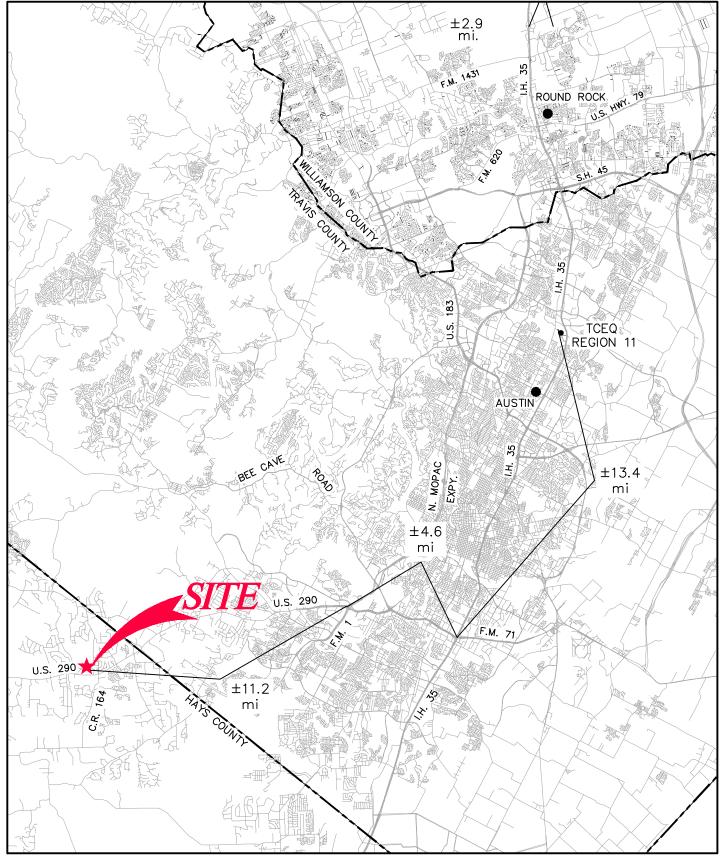
- 61. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.
- 62. Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
- 63. The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.

The Temporary Stormwater Section (TCEQ-0602) is included with the application.

### ATTACHMENT A

#### ARIZA 290 WEST - WWTP Contributing Zone Plan

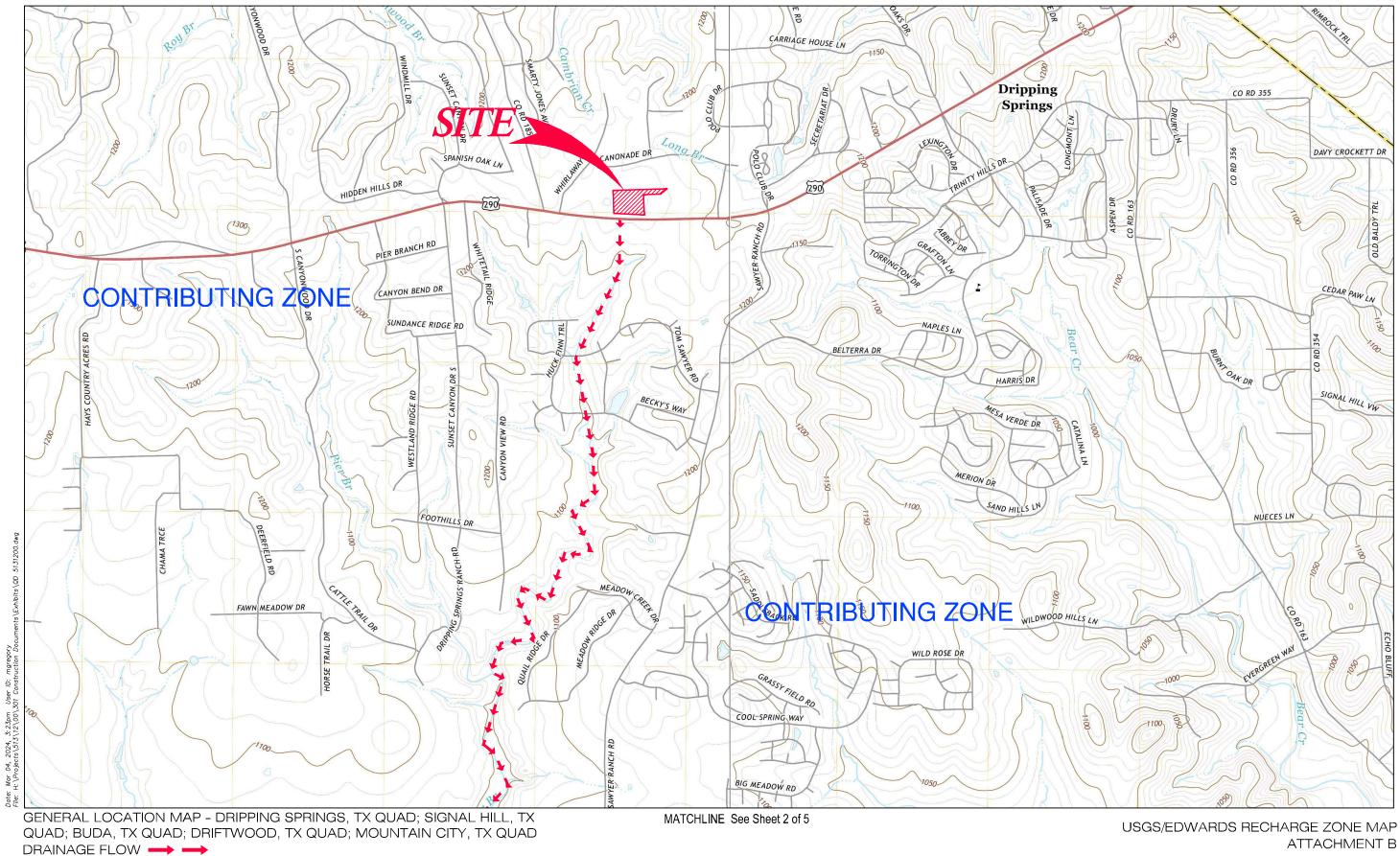




ATTACHMENT A Road Map

### **ATTACHMENT B**

#### **ARIZA 290 WEST - WWTP Contributing Zone Plan**



Pape-Dawson Consulting Engineers, LLC



ATTACHMENT B

### ATTACHMENT C

#### ARIZA 290 WEST – WWTP Contributing Zone Plan

#### Attachment C – Project Narrative

The Ariza 290 West is a multi-family residential development with an approved wastewater treatment plant (WWTP) within the Extra territorial jurisdiction of the City of Dripping Springs, in Hays County, Texas. The site is located approx. 0.28 mi northeast of Hwy 290 & Whirlaway Dr. intersection. The site is currently developed as a single-family residential ranch and lies within the Long Branch watershed which does not contain 100-year floodplain. There is approximately 0.52 acres of existing onsite impervious cover which pre-dates the 30 TAC 213 rules. While the project is located entirely over the Edwards Contributing Zone, a Geologic Assessment is not required by 30 TAC 213 regulations but was conducted in January 2022 for compliance with OEM requirements. No naturally occurring sensitive features were found on the site.

This Ariza 290 West – WWTP Contributing Zone Plan (CZP) proposes the construction of the WWTP on the west area of the tract which is approx. 9.167 ac based on the metes and bounds provided in this application. Regulated activities include demolition of existing structures and paving onsite, additional clearing, grading, excavation, installation of utilities and drainage improvements, installation of underground treatment vault, construction of wastewater treatment plant with associated septic field, sidewalks, and access drive. Approximately 0.623 acres of impervious cover, or 6.8% of the 9.167-acre project limits, are proposed for construction in this CZP. The proposed Permanent Best Management Practices (PBMPs) for stormwater treatment are one (1) Jellyfish Filter Vault, one (1) permeable paver section of the drive, one (1) fifteen-foot (15') engineered vegetative filter strip (VFS), and one (1) reduced width VFS designed in accordance with the TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) to remove 80% of the increase in Total Suspended Solids (TSS) from the site. Additional sizing of the PBMPs has accounted for the requirement of the City of Dripping Springs 85% TSS removal, as well as TCEQ Optional Enhanced Measures (OEM) in compliance with RG-348A requirements. TSS calculations for all have been included for reference. As the site is less than 15% IC it is exempt from OEM flow control requirements to protect stream morphology.

As a requirement of the West Travis County Public Utility Agency, this project has chosen to design TCEQ Optional Enhanced Measures (OEM) within the proposed PBMPs in accordance with Appendix A and Appendix B of the RG-348. As part of compliance with the design, the 0.52 ac of existing grandfathered impervious cover was not accounted to offset the treatment load of the PBMPs. Calculations for these are included in the exhibits section of the application. Portions of the site will be treated by self-treating permeable pavers which have been designed in accordance with TCEQ's Technical Guidance Manual (TGM) RG-348 (2005). In watershed "F" a portion of the proposed WWTP service driveway will be constructed as permeable pavers to remain in compliance with the impervious cover requirements for the site per Dripping Springs. These will not comply with TCEQ design criteria therefore will be treated by the proposed 15' VFS that treats the abutted watershed "G".

Potable water service is to be provided by the West Travis County Public Utility Agency. The proposed development is approved to treat approximately 30,000 gallons per day (average flow) of domestic wastewater. See Attachment F located within this section of this application for details of the TCEQ approved Ariza 290 West Wastewater Treatment Facility operated by Cypressbrook 290 LP (WQ0016125001).



### ATTACHMENT D

#### Attachment D – Factors Affecting Surface Water Quality

Potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site during construction include:

- Soil erosion due to the demolition and clearing of the site;
- Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle drippings;
- Hydrocarbons from asphalt paving operations;
- Miscellaneous trash and litter from construction workers and material wrappings;
- Concrete truck washout.
- Potential overflow/spills from portable toilets

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

- Oil, grease, fuel and hydraulic fluid contamination from vehicle drippings;
- Dirt and dust which may fall off vehicles; and
- Miscellaneous trash and litter.

### ATTACHMENT E

#### ARIZA 290 WEST – WWTP Contributing Zone Plan

#### Attachment E – Volume and Character of Stormwater

Stormwater runoff will increase as a result of this development. For a 25-year storm event, the overall project will generate approximately 91 cfs. The runoff coefficient for the site changes from approximately 0.44 before development to 0.70 after development. Values are based on the Rational Method using runoff coefficients per the City of Dripping Springs Unified Development Code.



### **ATTACHMENT J**

#### ARIZA 290 WEST – WWTP Contributing Zone Plan

#### Attachment J – BMPs for Upgradient Stormwater

No offsite upgradient stormwater will cross the project limits.

The proposed Permanent Best Management Practices (PBMPs) for stormwater treatment are one (1) Jellyfish Filter, one (1) permeable paver area, one (1) fifteen-foot (15') engineered vegetative filter strip (VFS), and one (1) reduced width VFS, which are designed in accordance with the TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) to remove 80% of the increase in Total Suspended Solids (TSS) from the site. Additional sizing of the PBMPs has accounted for the requirement of the City of Dripping Springs 85% TSS removal, as well as Optional Enhanced Measures (OEM) in compliance with RG-348A requirements. TSS calculations for all have been included for reference.



### ATTACHMENT K

#### ARIZA 290 WEST – WWTP Contributing Zone Plan

#### <u>Attachment K – BMPs for Onsite Stormwater</u>

The proposed Permanent Best Management Practices (PBMPs) for stormwater treatment are one (1) Jellyfish Filter, one (1) permeable paver area, one (1) fifteen-foot (15') engineered vegetative filter strip (VFS), and one (1) reduced width VFS, which are designed in accordance with the TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) to remove 80% of the increase in Total Suspended Solids (TSS) from the site. Additional sizing of the PBMPs has accounted for the requirement of the City of Dripping Springs 85% TSS removal, as well as Optional Enhanced Measures (OEM) in compliance with RG-348A requirements. TSS calculations for all have been included for reference.



### ATTACHMENT L

#### ARIZA 290 WEST – WWTP Contributing Zone Plan

#### Attachment L – BMPs for Surface Streams

The proposed Permanent Best Management Practices (PBMPs) for stormwater treatment are one (1) Jellyfish Filter, one (1) permeable paver area, one (1) fifteen-foot (15') engineered vegetative filter strip (VFS), and one (1) reduced width VFS, which are designed in accordance with the TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) to remove 80% of the increase in Total Suspended Solids (TSS) from the site. Additional sizing of the PBMPs has accounted for the requirement of the City of Dripping Springs 85% TSS removal, as well as Optional Enhanced Measures (OEM) in compliance with RG-348A requirements. TSS calculations for all have been included for reference.



# ATTACHMENT M

### ARIZA 290 WEST – WWTP Contributing Zone Plan

#### Attachment M – Construction Plans

Please refer to the Exhibits Section of this application for the Contributing Zone Plan Site Plans.



# **ATTACHMENT N**

### ARIZA 290 WEST- WWTP Contributing Zone Plan

#### PERMANENT POLLUTION ABATEMENT MEASURES MAINTENANCE SCHEDULE AND MAINTENANCE PROCEDURES

This document has been prepared to provide a description and schedule for the performance of maintenance on permanent pollution abatement measures. Maintenance measures to be performed will be dependent on what permanent pollution abatement measures are incorporated into the project. The project specific water pollution abatement plan should be reviewed to determine what permanent pollution abatement measures are incorporated into a project.

It should also be noted that the timing and procedures presented herein are general guidelines, adjustment to the timing and procedures may have to be made depending on project specific characteristics as well as weather related conditions.

Where a project is occupied by the owner, the owner may provide for maintenance with his own skilled forces or contract for recommended maintenance of Permanent Best Management Practices. Where a project is occupied or leased by a tenant, the owner shall require tenants to contract for such maintenance services either through a lease agreement, property owners association covenants, or other binding document.

I understand that I am responsible for maintenance of the Permanent Pollution Abatement Measures included in this project until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property or ownership is transferred.

I, the owner, have read and understand the requirements of the attached Maintenance Plan and Schedule.

Luis Bordes, Agent, VP of GP Cypressbrook 290, LP

8-14-2023

Date



#### INSPECTION AND MAINTENANCE SCHEDULE FOR PERMANENT POLLUTION ABATEMENT MEASURES

Recommended Frequency	Task to be Performed						
	1	2	3	4	5		
Weekly					1		
After Rainfall				1			
Biannually*				1	√		
Annually*	1	1	1	1			

\*At least one biannual inspection must occur during or immediately after a rainfall event. †Inspections to occur quarterly during the first year of operation.  $\sqrt{Indicates}$  maintenance procedure that applies to this specific site.

See description of maintenance task to be performed on the following pages. Frequency of maintenance tasks may vary depending on amount of rainfall and other weather-related conditions but may not be altered without TCEQ approval. Inspection frequency in subsequent years is based on the maintenance plan developed in the first year, but must occur annually at a minimum.

A written record will be kept of inspection results and maintenance performed.

<u>Task N</u>	lo. & Description	Included in this project		
1.	Cleaning	Yes	No	
2.	Manual Backflush / Flow Rate Test	Yes	No	
3.	External Rinsing	Yes	No	
4.	Vegetated Filter Strips	Yes	No	
5.	Permeable Pavers	Yes	No	

### ARIZA 290 WEST - WWTP Contributing Zone Plan

Note: Additional guidance can be obtained from the TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) Addendum, Section 3.2.22, as well as the Jellyfish<sup>®</sup> Filter Owner's Manual provided by Imbrium<sup>®</sup>

Systems.

- 1. <u>Cleaning</u>. Removal and appropriate disposal of all water, sediment, oil and grease, and debris that has accumulated within the unit will be performed. The Jellyfish® Filter will be inspected and maintained by professional vacuum cleaning service providers with experience in the maintenance of underground tanks, sewers and catch basins. Since some of the maintenance procedures require manned entry into the Jellyfish structure, only professional maintenance service providers trained in confined space entry procedures should enter the vessel. A written record will be kept of inspection results and maintenance performed.
- 2. <u>Manual Backflush / Flow Rate Test</u>. A manual backflush must be performed on a single draindown cartridge using a Jellyfish Cartridge Backflush Pipe (described in the Jellyfish® Filter Owner's Manual). If the time required to drain 14 gallons of backflush water from the Backflush Pipe (from top of pipe to the top of the open flapper valve) exceeds 15 seconds, it is recommended to perform a manual backflush on each of the cartridges. After the manual backflush, the draindown test should be repeated on a single cartridge to determine if the cartridge can drain 14 gallons of water in 15 seconds. If the cartridge still does not achieve the design flow rate, it must be replaced. Filter cartridges should be tested for adequate flow rate, every 12 months and cleaned and recommissioned, or replaced if necessary. Written record will be kept of inspection results and maintenance performed.
- 3. <u>External Rinsing</u>. If external rinsing is performed within the structure, the cartridge or individual filtration tentacles should be rinsed while safely suspended over the maintenance access wall opening in the cartridge deck, such that rinsate flows into the lower chamber of the Jellyfish® Filter. If the rinsing procedure is performed outside the structure, the cartridge or individual filtration tentacles should be rinsed in a suitable basin such as a plastic barrel or tub, and rinsate subsequently poured into the maintenance access wall opening in the cartridge deck. Sediment is subsequently removed from the lower chamber by standard vacuum service. *Written record will be kept of inspection results and maintenance performed*.

<u>Hazardous Material Spill</u>. Maintenance requirements and frequency are dependent on the pollutant load characteristics of each site, and may be required in the event of a chemical spill or due to excessive sediment loading. In the case of a spill, the worker should abort inspection activities until the proper guidance is obtained. Notify the local hazard control agency and appropriate regulatory agencies immediately. Maintenance should be performed by a licensed liquid waste hauler. Cartridge replacement may also be required in the event of an accidental significant or hazardous spill. Industrial and hazardous waste materials will be disposed of in accordance with TCEQ rules in 30 Texas Administration Code (TAC) Sections (§§)335.501-.521 (subchapter R). If class I or II nonhazardous or hazardous wastes are generated, a third-party disposal contractor will manage the wastes. *Written record will be kept of inspection results and maintenance performed*.



### ARIZA 290 WEST - WWTP Contributing Zone Plan

4. <u>Vegetated Filter Strips.</u> Once a vegetated area is well established, little additional maintenance is generally necessary. The key to establishing a viable vegetated feature is the care and maintenance it receives in the first few months after it is planted. Once established, all vegetated BMPs require some basic maintenance to insure the health of the plants. 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 and herbicides.

Vegetation height for native grasses shall be limited to no more than 18-inches. When vegetation exceeds that height, the filter strip shall be cut to a height of approximately 4 inches. Turf grass shall be limited to a height of 4-inches with regular maintenance that utilizes a mulching mower. Trash and debris shall be removed from filter strip prior to cutting. Sediment removal is not normally required in filter strips since the vegetation normally grows through it and binds to the soil. However, sediment may accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be removed by hand or with flat-bottomed shovels.

Check filter strip for signs of concentrated flow and erosion. Areas of filter strip showing signs of erosion shall be repaired by scarifying the eroded area, reshaping, re-grading and placement of solid block sod over the affected area. Construction of a level spreader device may be necessary to reestablish shallow overland flow. Corrective maintenance, such as weeding, or replanting should be done more frequently in the first two to three years after installation to ensure stabilization. Dense vegetation may require irrigation immediately after planting, and during particularly dry periods, as the vegetation is initially established. A written record will be kept of inspection results and corrective measures taken.

5. <u>Permeable Pavers</u>. Permeable Pavers should be swept at least twice yearly to remove fine particulates. Other periodic maintenance such as replacing cracked or worn pavers, minor settlement repairs, etc. should be upheld for longevity of the integrity of the pavement.

In conjunction with TCEQ's TGM RG-348 December 14, 2011 Addendum criteria for permeable pavers, permeability testing of the system should occur at least every three years. The test shall be conducted with a double ring infiltrometer in one representative location for each 2,000 square feet of permeable pavement. A minimum infiltration rate of five inches per hour is required. If the permeable pavement has become clogged, the aggregate may be removed by vacuuming and the new gravel placed. All waste, including the removed materials, must be disposed of in accordance with local, state, and federal laws and regulations.

Note: Additional guidance can be obtained from TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) Section 3.5.23.

Recordkeeping Procedures for Inspections, Maintenance, Repairs, and Retrofits:

- Written records shall be kept by the party responsible for maintenance or a designated representative.
- Written records shall be retained for a minimum of five years.



# **ATTACHMENT P**

### ARIZA 290 WEST – WWTP Contributing Zone Plan

#### Attachment P – Measures for Minimizing Surface Stream Contamination

Any points where discharge from the site is concentrated and erosive velocities exist will include appropriately sized energy dissipators to reduce velocities to non-erosive levels.



# GEOLOGIC ASSESSMENT FORM (TCEQ-0585)

# **Geologic Assessment**

#### Texas Commission on Environmental Quality

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

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

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

## Signature

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

Print Name of Geologist: <u>Henry E. Stultz III, P.G.</u>

Telephone: <u>210-375-9000</u> Fax: **210-375-9090** 

Date: January 6, 2022

\_\_\_\_\_Fax: \_\_\_\_\_**210-375-9090** 

Representing: Pape-Dawson Engineers, Inc., TBPG registration number 50351

Signature of Geologist:

Regulated Entity Name: <u>Ariza, Dripping Springs</u>

## **Project Information**

- 1. Date(s) Geologic Assessment was performed: December 2, 2021
- 2. Type of Project:

$\times$	WPAP
	SCS

AST
UST

- 3. Location of Project:
  - Recharge Zone
  - Transition Zone

Contributing Zone within the Transition Zone

$\boxtimes$	Contributing	Zone
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- 4. Attachment A Geologic Assessment Table. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
- 5. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups\* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Characteristics and Thickness							
Soil Name	Group*	Thickness(feet)					
Rumple-Comfort, rubbly association, 1-8% slopes (RcD)	D	2-4					

# Table 1 - Soil Units, InfiltrationCharacteristics and Thickness

- \* Soil Group Definitions (Abbreviated)
  - A. Soils having a high infiltration rate when thoroughly wetted.
  - B. Soils having a moderate infiltration rate when thoroughly wetted.
  - C. Soils having a slow infiltration rate when thoroughly wetted.
  - D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. X Attachment C Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
- 8. Attachment D Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

Applicant's Site Plan Scale: 1" = <u>60'</u> Site Geologic Map Scale: 1" = <u>60'</u> Site Soils Map Scale (if more than 1 soil type): <u>N/A</u>

9. Method of collecting positional data:

Global Positioning System (GPS) technology.

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

- 10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
- 11. X Surface geologic units are shown and labeled on the Site Geologic Map.

12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

Geologic or manmade features were not discovered on the project site during the field investigation.

- 13. X The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
  - There are <u>four</u> (4) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

] The wells are not in use and have been properly abandoned.

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

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

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

### Administrative Information

15. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

# ATTACHMENT A Geologic Assessment Table

	PHYSICAL SETTING	11 12	CATCHMENT AREA TOPOGRAPHY (ACRES)	i <u>&gt;1.6</u>	Hillside	Hillside	Hillside	Hillside							None, exposed bedrock Coarse - cobbles, breakdown, sand, gravel Loose or soft mud or soil, organics, leaves, sticks, dark colors Fines, compacted clay-rich sediment, soil profile, gray or red colors Vegetation. Give details in narrative description Flowstone, cements, cave deposits Other materials Other materials Other materials 12 TOPOGRAPHY filltop, Hillside, Drainage, Floodplain, Streambed by's Instructions to Geologists. e conditions observed in the field.
		A Call		<u>.0</u> <1.6	X 0	5 X	X 0	20 X		_	_	_		-LING	, gravel leaves, st t, soil proi r descriptic fRAPHY
	EVALUATION	10	SENSITIVITY	<40 >40	50	65	50	ũ	+	_		_		<b>8A INFILLING</b>	own, sand, gravel organics, leaves, ch sediment, soil pi n narrative descrip a deposits deposits foodplain, Strear the field.
	EVAI	თ	TOTAL	Paul and	50	65	50	50							sed bedrock bbles, breakd acted clay-ric Give details i cements, cavu ials <u>abserved in</u> 2022
sbu		88	RELATIVE INFILTRATION RATE	Street of the second second	20	35	20	20							N None, exposed bedrock C Coarse - cobbles, breakdown, sand, gravel O Loose or soft mud or soil, organics, leaves, sticks F Fines, compacted clay-rich sediment, soil profile, V Vegetation. Give details in narrative description FS Flowstone, cements, cave deposits X Other materials A Other materials A Other materials Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed Quality's Instructions to Geologists. a of the conditions observed in the field. (3.
inds br		8A	INFILL	State In the	XN	NX	NX	XN							N States Sta
PROJECT NAME: Ariza, Dripping Springs	FEATURE CHARACTERISTICS	7	APERTURE (FEET)	Manuel and	4								[	INTS	20 20 20 20 20 20 20 30 30 30 30 30 30 30 20 20 20 20 20 20 20 20 20 20 20 20 20
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NAIVIE		5A	-	10											Commiss ent and defined
		5	TREND (DEGREES)	and the state of the											) res k eatures the Texas ( that docum eologist as
PR		4	DIMENSIONS (FEET)	X Y Z	Well	Well	Well	Well						TYPE	C       Cave       30       N       None, exposed bedrock         Sc       Solution-enlarged fracture(s)       20       C       Coarse - cobbles, breakdown, sat         Sr       Solution-enlarged fracture(s)       20       C       Coarse - cobbles, breakdown, sat         F       Fault       20       C       Loose or soft mud or soil, organic         F       Fault       20       C       Loose or soft mud or soil, organic         NB       Manmade feature in bedrock features       30       Y       Vegetation. Give details in narratif         MB       Manmade feature in bedrock       30       Y       Other materials       12 TOPC         SH       Sinkhole       20       20       C       Coarse - cobples, breakdown, sat       12 TOPC         CD       Non-karst closed depression       20       X       Other materials       12 TOPC         Z       Zone, clustered or aligned features       30       X       Other materials       12 TOPC         Z       Zone, clustered or aligned features       30       X       Other materials       12 TOPC         Z       Zone, clustered or aligned features       30       X       Other materials       12 TOPC         Z       Zone, clustered or aligned feat
		e	FORMATION		Kkd	Kkd	Kkd	Kkd							C Cave SC Solution F Solution F Solution F Fault O Other na MB Manmad SW Swallow SW Swallow SW Swallow CD Non-kars Z Zone, clu I have read, 1 understood, al I have read, 1 understood, al The information presented h My signature certifies that 1.
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SOLOG		1A	FEATURE ID	11 A	s-1 2	S-2	S-3	S-4					** DATUM: NAD 83		WYN T PROFESS

Sheet 1 of 1 ATTACHMENT A

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

# ATTACHMENT B Stratigraphic Column

### ARIZA, DRIPPING SPRINGS Geologic Assessment (TCEQ-0585)

#### Attachment B – Stratigraphic Column

Period	Epoch	Group	Formation	Member	Thickness	Lithology	Hydro- logic Unit	Hydro- stratigraphic Unit	Hydrologic Function	Porosity	Cavern Development
				Grainstone	40–50	Hard, dense limestone that consists mostly of a tightly cemented miliolid skeletal fragment grainstone; contains interspersed chalky mudstone and wackestone; chert as beds and nodules; crossbedding and ripple marks are common primarily at the contact with the overlying regional dense bed		v	Aquifer	IP, IG, BU, FR, BP, CV	Few
	5			Kirsch-berg Evaporite	40–50	Highly altered crystalline limestone and chalky mudstone with occasional grainstone associated with tidal channels; chert as beds and nodules, boxwork molds are common, matrix recrystallized to a coarse grain spar; intervals of collapse breccia and travertine deposits	Aquifer	VI	Aquifer	IG, MO, VUG, FR, BR, CV	Probably extensive cave development
	sno	Sprew Kainer	Dolomitic	90–120	Hard, dense to granular, dolomitic limestone; chert as beds and nodules (absent in lower 20 ft); <i>Toucasia</i> sp. abundant; lower three-fourths composed of sucrosic dolomites and grainstones with hard, dense limestones interspersed; upper one-fourth composed mostly of hard, dense mudstone, wackestone, packstone, grainstone, and recrystallized dolomites with bioturbated beds	Edwards Aquifer	VII	Aquifer	IP, IC, IG, MO, BU, VUG, FR, BP, CV	Cave development as shafts with minor horizontal extent	
Cretaceous	Early Cretaceous			Basal nodular	40–50	Moderately hard, shaly, nodular, burrowed mudstone to miliolid grainstone that also contains dolomite; contains dark, spherical textural features known as black rotund bodies; Ceratostreon texana, Caprina sp., miliolids, and gastropods		VIII	Aquifer, confining unit in areas without caves	IP, MO, BU, BP, FR, CV	Large lateral caves at surface
					0–120			Cavernous	Aquifer	MO, BR, BP, FR, CV	
	C I			120–230			Camp Bullis	Confining	BU, BP, FR, occasional CV		
		<b>Trinity</b>	Glen Rose Limestone	Upper Glen Rose	0–10	Alternating resistant and nonresistant beds of blue shale, nodular marl, and impure, fossiliferous limestone; gray to yellowish gray; stair-step topography; contains two distinct evaporite zones; distinct <i>Corbula</i> sp. bed marks the	Upper Trinity Lower confining unit to the Edwards aquifer	Upper evaporite	Aquifer	IP, MO, BU, BR	Some surface cave
		F			0–40	contact with the underlying lower member of the Glen Rose Limestone; Orbitulina texana		Fossil-	Aquifer	MO, BU, FR, CV	development
					80–150		ower co	iferous Lower	Confining	MO, BU, FR	
						2	Lower evaporite	Aquifer	IP, MO, BU, BR		

Source: Clark, Golab, and Morris (2016); Cavern development modified from Stein and Ozuna (1995). Porosity types - Fabric selective: IP, Interparticle porosity; IG, Intergranular porosity; IC, Intercrystalline porosity; SH, shelter porosity; MO, moldic porosity; BI, burrowed porosity; FE, fenestral; BP, bedding plane porosity. Not fabric selective: FR, fracture porosity; CH, channel porosity; BR, breccia; VUG, vug porosity; CV, cave porosity.

ATTACHMENT C Site Geology

#### ARIZA, DRIPPING SPRINGS Geologic Assessment

#### <u>Attachment C – Site Geology</u>

#### **SUMMARY**

The Ariza, Dripping Springs site is located north of W US-290, approximately ½ mile west of the intersection of W US-290 and Sawyer Ranch Road in Hays County, Texas.

Based on the results of the field survey conducted in accordance with *Instructions for Geologists for Geologic Assessments in the Edwards Aquifer Recharge/Transition Zones (TCEQ-0585 Instructions),* no naturally occurring sensitive features were identified on site. The overall potential for fluid migration to the Edwards Aquifer for the site is low.

#### **SITE GEOLOGY**

As observed through field evidence, the geologic formation which outcrops at the surface within the subject site is the dolomitic (Kekd) member of the Kainer formation. The Kekd is a massively bedded, mudstone to grainstone, crystalline limestone. Karst development within the Kekd is characterized by small sinkholes and often caves develop as vertical shafts.

The predominant trend of faults in the vicinity of the site is approximately N47°E, based on faults identified during the previous mapping of the area.

#### **FEATURE DESCRIPTIONS:**

A description of the features observed onsite is provided below:

Features S-1, S-3, and S-4

Features S-1, S-3, and S-4 are capped wells that are either in use or in good condition. The wells were not in the TWDB database. However, the ages of the well and integrity of casing are unknown. Therefore, the probability of rapid infiltration is intermediate.

#### Feature S-2

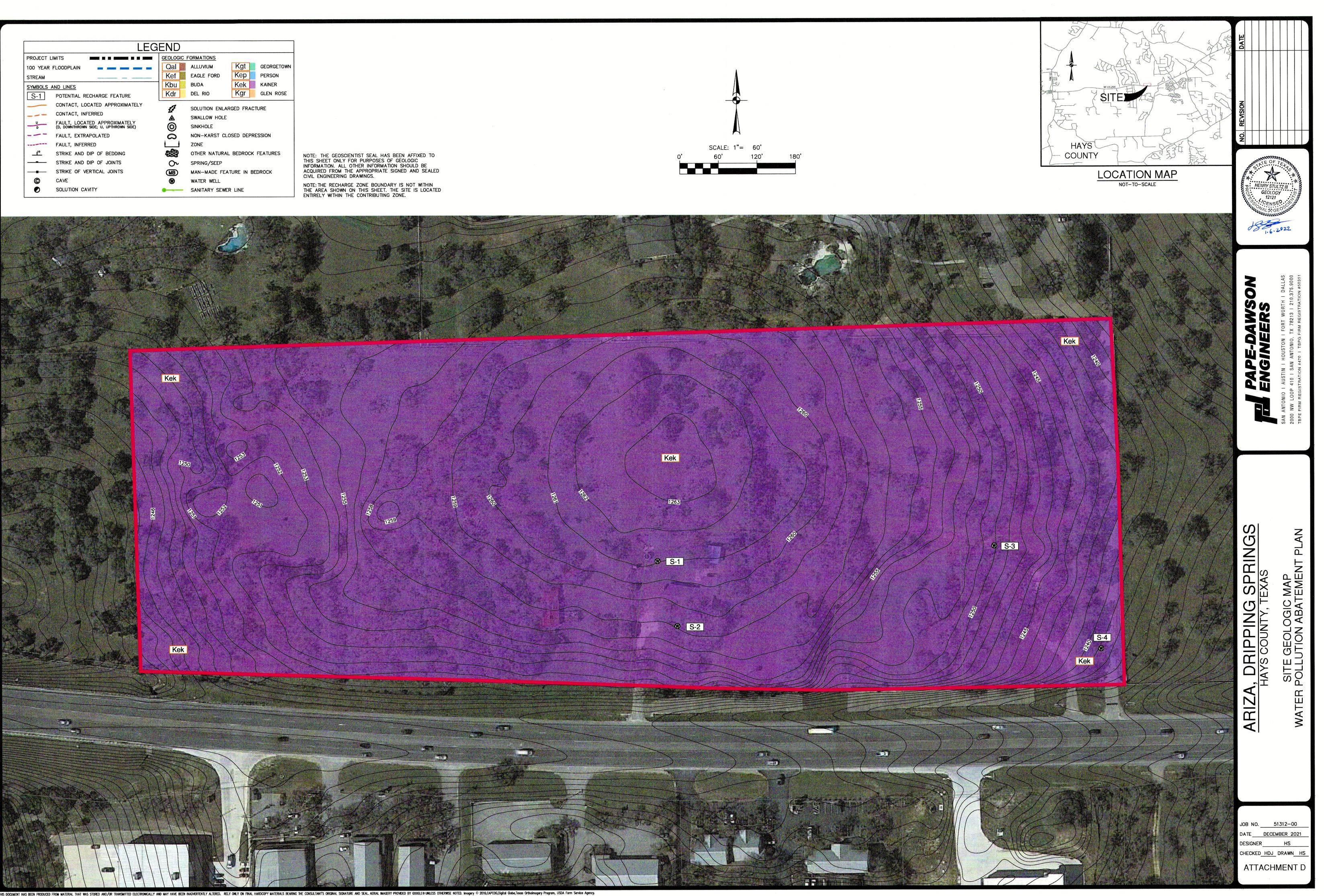
Feature S-2 is an existing water well near the existing residential structure. The well was not in the TWDB database. This well may be referenced as a hand drawn well (DeCook, 1963). The age of the well and integrity of casing are unknown. Therefore, the probability of rapid infiltration is high.

### ARIZA, DRIPPING SPRINGS Geologic Assessment

#### REFERENCES

- 1. DeCook, K.J., 1963, Geology and ground-water resources of Hays County, Texas, U.S. Geological Survey, Water-Supply Paper 1612.
- 2. Nationwide Environmental Title Research, LLC. Historical Aerials, HistoricAerials.com. https://www.historicaerials.com/viewer, May 10, 2021.
- 3. Pedraza, D.E., Clark, A.K., and Morris, R.R., 2018, Geospatial Dataset of the Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Hays County, Texas at 1:24,000 scale: U.S. Geological Survey data release, https://doi.org/10.5066/P9IEJHMH.
- 4. Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. http://websoilsurvey.sc.egov.usda.gov/, May 10, 2021.
- 5. Stein, W.G., and Ozuna, G.B., 1995, Geologic framework and hydrogeologic characteristics of the Edwards Aquifer recharge zone, Bexar County, Texas: U.S. Geological Survey Water-Resources Investigations Report 95–4030, 8 p.
- 6. Texas Water Development Board, Wells in TWDB Groundwater Database Viewer, https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer, May 10, 2021.
- 7. U.S. Geological Survey, National Water Information System: Mapper, https://maps.waterdata.usgs.gov/mapper/index.html, May 10, 2021. January 6, 2022.

ATTACHMENT D Site Geologic Map(s)





# 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: Shelly Mitchell, P.E.

Date: 03/05/2024

Signature of Customer/Agent:

Shelly Mitchell

Regulated Entity Name: Ariza 290 West - WWTP

# **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: <u>construction</u> <u>staging area</u>

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.

TCEQ-0602 (Rev. 02-11-15)

Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

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

# Sequence of Construction

5. Attachment C - Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

- For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>Long Branch</u>

# Temporary Best Management Practices (TBMPs)

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

7. 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:

		<ul> <li>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.</li> <li>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.</li> <li>A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.</li> <li>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.</li> </ul>
8.	$\triangleleft$	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.
		<ul> <li>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.</li> <li>There will be no temporary sealing of naturally-occurring sensitive features on the site.</li> </ul>
9.	$\bowtie$	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. [	$\triangleleft$	Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached:
		<ul> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.</li> <li>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.</li> <li>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.</li> <li>There are no areas greater than 10 acres within a common drainage area that will be used in combination with other erosion and sediment controls within each disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed at one time.</li> </ul>

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

- 11. Attachment H Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
  - 🖂 N/A
- 12. Attachment I Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
- 13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
- 14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
- 15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
- 16. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

# Soil Stabilization Practices

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

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

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

## Administrative Information

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

# **ATTACHMENT A**

#### Attachment A – Spill Response Actions

In the event of an accidental leak or spill:

- Spill must be contained and cleaned up immediately.
- Spills will not be merely buried or washed with water.
- Contractor shall take action to contain spill. Contractor may use sand or other absorbent material stockpiled on site to absorb spill. Absorbent material should be spread over the spill area to absorb the spilled product.
- In the event of an uncontained discharge the contractor shall utilize onsite equipment to construct berms downgradient of the spill with sand or other absorbent material to contain and absorb the spilled product.
- Spill containment/absorbent materials along with impacted media must be collected and stored in such a way so as not to continue to affect additional media (soil/water). Once the spill has been contained, collected material should be placed on poly or plastic sheeting until removed from the site. The impacted media and cleanup materials should be covered with plastic sheeting and the edges weighed down with paving bricks or other similarly dense objects as the material is being accumulated. This will prevent the impacted media and cleanup materials from becoming airborne in windy conditions or impacting runoff during a rain event. The stockpiled materials should not be located within an area of concentrated runoff such as along a curb line or within a swale.
- Contaminated soils and cleanup materials will be sampled for waste characterization. When the analysis results are known the contaminated soils and cleanup materials will be removed from the site and disposed in a permitted landfill in accordance with applicable regulations.
- The contractor will be required to notify the owner, who will in turn contact TCEQ to notify them in the event of a significant hazardous/reportable quantity spill. Additional notifications as required by the type and amount of spill will be conducted by owner or owner's representative.

In the event of an accidental significant or hazardous spill:

The contractor will be required to report significant or hazardous spills in reportable quantities to:

- Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.



### ARIZA 290 WEST – WWTP Contributing Zone Plan

- Notification should first be made by telephone and followed up with a written report.
- The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.
- Contaminated soils will be sampled for waste characterization. When the analysis results are known the contaminated soils will be removed from the site and disposed in a permitted landfill in accordance with applicable regulations.

Additional guidance can be obtained from TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) Section 1.4.16. Contractor shall review this section.

# **ATTACHMENT B**

#### Attachment B – Potential Sources of Contamination

Potential Source Preventative Measure	<ul> <li>Asphalt products used on this project.</li> <li>After placement of asphalt, emulsion or</li> </ul>
Preventative measure	<ul> <li>After placement of asphalt, emulsion or coatings, the contractor will be responsible for</li> </ul>
	immediate cleanup should an unexpected rain
	occur. For the duration of the asphalt product
	curing time, the contractor will maintain standby
	personnel and equipment to contain any asphalt
	wash-off should an unexpected rain occur. The
	contractor will be instructed not to place asphalt
	products on the ground within 48 hours of a
	forecasted rain.
Potential Source •	Oil, grease, fuel and hydraulic fluid contamination from
	construction equipment and vehicle dripping.
Preventative Measure	Vehicle maintenance when possible will be performed within the construction staging area.
	<ul> <li>Construction vehicles and equipment shall be</li> </ul>
	checked regularly for leaks and repaired
	immediately.
Potential Source •	Accidental leaks or spills of oil, petroleum products and
	substances listed under 40 CFR parts 110, 117,
	and 302 used or stored temporarily on site.
Preventative Measure	<ul> <li>Contractor to incorporate into regular safety</li> </ul>
	meetings, a discussion of spill prevention and
	appropriate disposal procedures.
	<ul> <li>Contractor's superintendent or representative</li> <li>contractor shall enforce proper shill provention</li> </ul>
	overseer shall enforce proper spill prevention and control measures.
	Hazardous materials and wastes shall be stored
	in covered containers and protected from
	vandalism.
	A stockpile of spill cleanup materials shall be
	stored on site where it will be readily accessible.
Potential Source •	Miscellaneous trash and litter from construction workers and material wrappings.
Preventive Measure	Trash containers will be placed throughout the
	site to encourage proper trash disposal.
Potential Source •	Construction debris.
Preventive Measure	<ul> <li>Construction debris will be monitored daily by</li> </ul>
	contractor. Debris will be collected weekly and
	placed in disposal bins. Situations requiring immediate attention will be addressed on a case
	by case basis.
	טץ נמזב שמזוז.

#### Potential Source •

Preventative Measure

Spills/Overflow of waste from portable toilets

- Portable toilets will be placed away from high traffic vehicular areas and storm drain inlets.
- Portable toilets will be placed on a level ground surface.
- Portable toilets will be inspected regularly for leaks and will be serviced and sanitized at time intervals that will maintain sanitary conditions.

# ATTACHMENT C

### ARIZA 290 WEST – WWTP Contributing Zone Plan

#### Attachment C – Sequence of Major Activities

The sequence of major activities which disturb soil during construction on this site will be divided into two stages. No more than 10 acres will be disturbed with these proposed site improvements. Site preparation including demolition, clearing and grubbing of vegetation where applicable, may disturb the entire 9.167- ac project limits. A description of the sequence of major activities on the site and the estimated area of disturbance for each activity is provided below:

- Construction of Utilities: Approximately 2.5 acres
- Construction of onsite WWTP 0.25 acres
- Installation of drip irrigation for WWTP 7 acres
- Sidewalks: Approximately 2 acres
- Landscaping: Approximately 1 acre
- Site Cleanup: Approximately 9.167 acres

Total construction may disturb approximately 9.167 acres, based on affected watershed, with final proposed impervious cover of 0.623 acres. However due to construction of the WWTP and drain field, the entire 9.167-acre site could be disturbed.



# **ATTACHMENT D**

#### Attachment D – Temporary Best Management Practices and Measures

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.

# No upgradient stormwater will cross the site. All TBMPs are adequate for the drainage areas they serve.

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 stormwater runoff from the site.

Site preparation, which is the initiation of all activity on the project, will disturb the largest amount of soil. Therefore, before any of this work can begin, the clearing and grading contractor will be responsible for the installation of all on-site control measures. The methodology for pollution prevention of on-site stormwater will include: (1) erection of silt fences along the downgradient boundary of construction activities for temporary erosion and sedimentation controls, (2) installation of rock berms with silt fencing downgradient from areas of concentrated stormwater flow for temporary erosion control, (3) Installation of gravel bags and drain inlet protection at inlets and downgradient areas of construction activities for sediment control (4) installation of stabilized construction entrance/exit(s) to reduce the dispersion of sediment from the site, and (5) installation of construction staging area(s).

Prior to the initiation of construction, all previously installed control measures will be repaired or reestablished for their designed or intended purpose. This work, which is the remainder of all activity on the project, may also disturb additional soil. The construction contractor will be responsible for the installation of all remaining on-site control measures that includes installation of the concrete truck washout pit(s), as construction phasing warrants.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing the sediment and solids within the site, they will not enter surface streams and/or sensitive features.

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

As this site is entirely over the Edwards Aquifer Contributing Zone, a Geologic Assessment was not required but was conducted for OEM compliance. No sensitive features were identified. There are no surface streams on or immediately adjacent to the site.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing the sediment and solids within the site, they will not enter surface streams and/or sensitive features.

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.

As this site is entirely over the Edwards Aquifer Contributing Zone, a Geologic Assessment was not required but was conducted for OEM compliance. No sensitive features were identified. There are no surface streams on or immediately adjacent to the site.



# ATTACHMENT F

#### Attachment F – Structural Practices

The following structural measures will be installed prior to the initiation of site preparation activities:

- Erection of silt fences along the downgradient boundary of construction activities and rock berms with silt fence for secondary protection, as located on Sheets 13 of 71 and illustrated in Sheet 62 of 71.
- Installation of gravel bags and drain inlet protection at inlets and downgradient areas of construction activities, as located on Sheets 13 of 71 and illustrated in Sheet 62 of 71.
- Installation of stabilized construction entrance/exit(s) and construction staging area(s), as located on Sheets 13 of 71 and illustrated in Sheet 62 of 71.

The following structural measures will be installed at the initiation of construction activities or as appropriate based on the construction sequencing:

• Installation of concrete truck washout pit(s), as required and located on Sheets 13 of 71 and illustrated in Sheet 62 of 71.



# ATTACHMENT G

#### <u> Attachment G – Drainage Area Map</u>

No more than ten (10) acres will be disturbed for regulated activities proposed on this project. All TBMPs utilized are adequate for the drainage areas served. Refer to included exhibits for additional details.



# **ATTACHMENT I**

#### INSPECTIONS

Designated and qualified person(s) shall inspect Pollution Control Measures weekly and within 24 hours after a storm event. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of Storm Water TPDES data for a period of three years after the Notice of Termination (NOT) has been filed. A copy of the Inspection Report Form is provided in this Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe: (1) significant disturbed areas for evidence of erosion, (2) storage areas for evidence of leakage from the exposed stored materials, (3) structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep), (4) vehicle exit point for evidence of off-site sediment tracking, (5) vehicle storage areas for signs of leaking equipment or spills, (6) concrete truck rinse-out pit for signs of potential failure, (7) embankment, spillways, and outlet of sediment basin (where applicable) for erosion damage, and (8) sediment basins (where applicable) for evidence that basin has accumulated 50% of its volume in silt. Deficiencies noted during the inspection will be corrected and documented within seven calendar days following the inspection or before the next anticipated storm event if practicable.

Contractor shall review Sections 1.3 and 1.4 of TCEQ's Technical Guidance Manual for additional BMP inspection and maintenance requirements.



Pollution	.5	Corrective Action Req	uired
Prevention Measure	Inspected i Compliance	Description (use additional sheet if necessary)	Date Completed
Best Management Practices			
Natural vegetation buffer strips			
Temporary vegetation			
Permanent vegetation			
Sediment control basin			
Silt fences			
Rock berms			
Gravel filter bags			
Drain inlet protection			
Other structural controls			
Vehicle exits (off-site tracking)			
Material storage areas (leakage)			
Equipment areas (leaks, spills)			
Concrete washout pit (leaks, failure)			
General site cleanliness			
Trash receptacles			
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			

#### \_ A brief statement describing the qualifications of the inspector is included in this SWP3.

"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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

"I further certify I am an authorized signatory in accordance with the provisions of 30 TAC §305.128."

Inspector's Name

Inspector's Signature

Date

#### **PROJECT MILESTONE DATES**

Date when major site grading activities begin:	
Construction Activity	Date
Installation of BMPs	
Dates when construction activities temporarily or permaner	ntly cease on all or a portion of the projec
Construction Activity	Date
Dates when stabilization measures are initiated:	
Stabilization Activity	Date
Removal of BMPs	

# **ATTACHMENT J**

#### Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

Interim on-site stabilization measures, which are continuous, will include minimizing soil disturbances by exposing the smallest practical area of land required for the shortest period of time and maximizing use of natural vegetation. As soon as practical, all disturbed soil will be stabilized as per project specifications in accordance with pages 1-35 to 1-60 of TCEQ's Technical Guidance Manual (TGM) RG-348 (2005). Mulching, netting, erosion blankets and seeding are acceptable.

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided below, will be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14<sup>th</sup> day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable.



# NOTICE OF INTENT (TCEQ-20022)

TCEQ Office Use Only Permit No: CN: RN:



Notice of Intent (NOI) for an Authorization for Stormwater Discharges Associated with Construction Activity under TPDES General Permit TXR150000

#### IMPORTANT INFORMATION

Please read and use the General Information and Instructions prior to filling out each question in the NOI form.

Use the NOI Checklist to ensure all required information is completed correctly. **Incomplete applications delay approval or result in automatic denial**.

Once processed your permit authorization can be viewed by entering the following link into your internet browser: http://www2.tceq.texas.gov/wq\_dpa/index.cfm or you can contact TCEQ Stormwater Processing Center at 512–239–3700.

#### ePERMITS

Effective September 1, 2018, this paper form must be submitted to TCEQ with a completed electronic reporting waiver form (TCEQ-20754).

To submit an NOI electronically, enter the following web address into your internet browser and follow the instructions: https://www3.tceq.texas.gov/steers/index.cfm

#### APPLICATION FEE AND PAYMENT

The application fee for submitting a paper NOI is \$325. The application fee for electronic submittal of a NOI through the TCEQ ePermits system (STEERS) is \$225.

Payment of the application fee can be submitted by mail or through the TCEQ ePay system. The payment and the NOI must be mailed to separate addresses. To access the TCEQ ePay system enter the following web address into your internet browser: http://www.tceq.texas.gov/epay.

Provide your payment information for verification of payment:

- If payment was mailed to TCEQ, provide the following:
  - Check/Money Order Number:
  - Name printed on Check:
- If payment was made via ePay, provide the following:
  - Voucher Number:
  - A copy of the payment voucher is attached to this paper NOI form.

RE	NEWAL (This portion of the NOI is not applic	cable after June 3, 2018)		
Is this NOI for a renewal of an existing authorization? $\Box$ Yes $\Box$ No				
If Y	Yes, provide the authorization number here: T	ΓXR15 lick here to entertext		
NC	OTE: If an authorization number is not provid	ed, a new number will be assigned.		
SE	CTION 1. OPERATOR (APPLICANT)			
a)	) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? CN <u>605997303</u>			
	(Refer to Section 1.a) of the Instructions)			
b)	What is the Legal Name of the entity (applicant) applying for this permit? (The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)			
C)	What is the contact information for the Ope	erator (Responsible Authority)?		
	Prefix (Mr. Ms. Miss):			
	First and Last Name:	Suffix:		
	Title: Credentials:	lick here to enter text.		
	Phone Number: Fax	Number: Thick here to enter text		
E-mail: Mailing Address:				
	Mailing Information if outside USA:			
	Territory:			
	Country Code: Posta	ll Code:		
d)	Indicate the type of customer:			
	🗆 Individual	Federal Government		
	Limited Partnership	County Government		
	🗆 General Partnership	🗆 State Government		
	🗆 Trust	🗆 City Government		
	□ Sole Proprietorship (D.B.A.)	Other Government		
	□ Corporation	$\Box$ Other: Click here to enterstext.		
	□ Estate			
e)	Is the applicant an independent operator?	🗆 Yes 🛛 No		

(If a governmental entity, a subsidiary, or part of a larger corporation, check No.)

- f) Number of Employees. Select the range applicable to your company.
  - □ 0-20

□ 251-500

□ 21-100

□ 501 or higher

- □ 101-250
- g) Customer Business Tax and Filing Numbers: (**Required** for Corporations and Limited Partnerships. **Not Required** for Individuals, Government, or Sole Proprietors.)

State Franchise Tax ID Number:

Federal Tax ID:

Texas Secretary of State Charter (filing) Number:

DUNS Number (if known):

### SECTION 2. APPLICATION CONTACT

Is the application contact the same as the applicant identified above?

Yes, go to Section 3				
$\Box$ No, complete this se	ction			
Prefix (Mr. Ms. Miss):	ere to enter text.			
First and Last Name:	ere to enter text Suffix: Click here to enter text.			
Title: Click here to enter tex	Credential:			
Organization Name:	re to enter text.			
Phone Number:	Fax Number:			
E-mail: Click here to enter t				
Mailing Address:	to enter text.			
Internal Routing (Mail Code, Etc.):				
City, State, and Zip Code:	ck here to enter text.			
Mailing information if outside	le USA:			
Territory:	1 CONT			
Country Code:	Postal Code:			

#### SECTION 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) If this is an existing permitted site, what is the Regulated Entity Number (RN) issued to this site? RN <u>111458402</u>

(Refer to Section 3.a) of the Instructions)

- b) Name of project or site (the name known by the community where it's located): <u>Ariza 290 West WWTP</u>
- c) In your own words, briefly describe the type of construction occurring at the regulated site (residential, industrial, commercial, or other): <u>wastewater</u> <u>treatment plant</u>
- d) County or Counties (if located in more than one): <u>Hays</u>
- e) Latitude: <u>30.196963 N</u> Longitude: <u>-98.006764 W</u>
- f) Site Address/Location

If the site has a physical address such as 12100 Park 35 Circle, Austin, TX 78753, complete *Section A*.

If the site does not have a physical address, provide a location description in *Section B*. Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1.

Section A:

Street Number and Name: <u>13900 W. US-290</u>

City, State, and Zip Code: Dripping Springs, TX 78620

Section B:

Location Description:

City (or city nearest to) where the site is located:

Zip Code where the site is located:

#### SECTION 4. GENERAL CHARACTERISTICS

- a) Is the project or site located on Indian Country Lands?
  - Yes, do not submit this form. You must obtain authorization through EPA Region 6.

🖾 No

- b) Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources?
  - Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6.

🖾 No

- c) What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site? <u>1623</u>
- d) What is the Secondary SIC Code(s), if applicable?
- e) What is the total number of acres to be disturbed? <u>9.167</u>
- f) Is the project part of a larger common plan of development or sale?

🗆 Yes

- No. The total number of acres disturbed, provided in e) above, must be 5 or more. If the total number of acres disturbed is less than 5, do not submit this form. See the requirements in the general permit for small construction sites.
- g) What is the estimated start date of the project? January 2027
- h) What is the estimated end date of the project? <u>December 2029</u>
- i) Will concrete truck washout be performed at the site?  $\square$  Yes  $\square$  No
- j) What is the name of the first water body(ies) to receive the stormwater runoff or potential runoff from the site? <u>Onion Creek</u>
- k) What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach? <u>1430B</u>
- 1) Is the discharge into a Municipal Separate Storm Sewer System (MS4)?

 $\boxtimes$  Yes  $\Box$  No

If Yes, provide the name of the MS4 operator: <u>Dripping Springs</u>

Note: The general permit requires you to send a copy of this NOI form to the MS4 operator.

m) Is the discharge or potential discharge from the site within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, as defined in 30 TAC Chapter 213?

 $\boxtimes$  Yes, complete the certification below.

 $\Box$  No, go to Section 5

I certify that the copy of the TCEQ-approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) that is included or referenced in the Stormwater Pollution Prevention Plan will be implemented.

### SECTION 5. NOI CERTIFICATION

- a) I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000).
- b) I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.
- c) I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed.
- d) I certify that a Stormwater Pollution Prevention Plan has been developed, will be implemented prior to construction and to the best of my knowledge and belief is compliant with any applicable local sediment and erosion control plans, as required in the Construction General Permit (TXR150000).

Note: For multiple operators who prepare a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3, provided all obligations are confirmed by at least one operator.

 $\Box$  Yes

#### SECTION 6. APPLICANT CERTIFICATION SIGNATURE

Operator Signatory Name:

Operator Signatory Title:

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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature (use blue ink): Date:
---------------------------------

# NOTICE OF INTENT CHECKLIST (TXR150000)

Did you complete everything? Use this checklist to be sure!

Are you ready to mail your form to TCEQ? Go to the General Information Section of the Instructions for mailing addresses.

Confirm each item (or applicable item) in this form is complete. This checklist is for use by the applicant to ensure a complete application is being submitted. **Missing information may result in denial of coverage under the general permit.** (See NOI process description in the General Information and Instructions.)

#### **APPLICATION FEE**

If paying by check:

Check was mailed **separately** to the TCEQs Cashier's Office. (See Instructions for Cashier's address and Application address.)

□ Check number and name on check is provided in this application.

If using ePay:

□ The voucher number is provided in this application and a copy of the voucher is attached.

#### RENEWAL

If this application is for renewal of an existing authorization, the authorization number is provided.

#### **OPERATOR INFORMATION**

Customer Number (CN) issued by TCEQ Central Registry

- □ Legal name as filed to do business in Texas. (Call TX SOS 512–463–5555 to verify.)
- □ Name and title of responsible authority signing the application.
- □ Phone number and e-mail address
- □ Mailing address is complete & verifiable with USPS. <u>www.usps.com</u>
- Type of operator (entity type). Is applicant an independent operator?
- $\Box$  Number of employees.
- □ For corporations or limited partnerships Tax ID and SOS filing numbers.
- □ Application contact and address is complete & verifiable with USPS. <u>http://www.usps.com</u>

### REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

- **Regulated Entity Number (RN) (if site is already regulated by TCEQ)**
- Site/project name and construction activity description
- $\Box$  County
- □ Latitude and longitude <u>http://www.tceq.texas.gov/gis/sqmaview.html</u>

TCEQ-20022 Checklist (03/06/2018)

 $H: \label{eq:linear} H: \label{eq:linear} H: \label{eq:linear} Projects \label{eq:linear} Statistical CZP - SPLIT \label{eq:linear} WWTP \label{eq:linear} on \label{eq:linear} Statistical Statisti$ 

□ Site Address/Location. Do not use a rural route or post office box.

GENERAL CHARACTERISTICS

- □ Indian Country Lands –the facility is not on Indian Country Lands.
- Construction activity related to facility associated to oil, gas, or geothermal resources
- □ Primary SIC Code that best describes the construction activity being conducted at the site. <u>www.osha.gov/oshstats/sicser.html</u>
- Estimated starting and ending dates of the project.
- □ Confirmation of concrete truck washout.
- □ Acres disturbed is provided and qualifies for coverage through a NOI.
- □ Common plan of development or sale.
- Receiving water body or water bodies.
- □ Segment number or numbers.
- $\square$  MS4 operator.
- □ Edwards Aquifer rule.

### CERTIFICATION

- □ Certification statements have been checked indicating Yes.
- □ Signature meets 30 Texas Administrative Code (TAC) §305.44 and is original.

# Instructions for Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity under TPDES General Permit (T X R 1 5 0 0 0 0)

#### GENERAL INFORMATION

#### Where to Send the Notice of Intent (NOI):

By Regular Mail: TCEQ Stormwater Processing Center (MC228) P.O. Box 13087 Austin, Texas 78711–3087 By Overnight or Express Mail: TCEQ Stormwater Processing Center (MC228) 12100 Park 35 Circle Austin, TX

#### **Application Fee:**

The application fee of \$325 is required to be paid at the time the NOI is submitted. Failure to submit payment at the time the application is filed will cause delays in acknowledgment or denial of coverage under the general permit. Payment of the fee may be made by check or money order, payable to TCEQ, or through EPAY (electronic payment through the web).

#### **Mailed Payments:**

Use the attached General Permit Payment Submittal Form. The application fee is submitted to a different address than the NOI. Read the General Permit Payment Submittal Form for further instructions, including the address to send the payment.

#### ePAY Electronic Payment: <a href="http://www.tceq.texas.gov/epay">http://www.tceq.texas.gov/epay</a>

When making the payment you must select Water Quality, and then select the fee category "General Permit Construction Storm Water Discharge NOI Application". You must include a copy of the payment voucher with your NOI. Your NOI will not be considered complete without the payment voucher.

#### **TCEQ Contact List:**

Application – status and form questions:	512-239-3700,
swpermit@tceq.texas.gov Technical questions:	512–239–4671, swgp@tceq.texas.gov
Environmental Law Division:	512-239-0600
Records Management – obtain copies of forms:	512-239-0900
Reports from databases (as available):	512-239-DATA (3282)
Cashier's office:	512-239-0357 or 512-239-0187

#### **Notice of Intent Process:**

When your NOI is received by the program, the form will be processed as follows:

• Administrative Review: Each item on the form will be reviewed for a complete response. In addition, the operator's legal name must be verified with Texas Secretary of State as valid and active (if applicable). The address(es) on the form must be verified with the US Postal service as receiving regular mail delivery. Do not give an overnight/express mailing address.

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- **Notice of Deficiency:** If an item is incomplete or not verifiable as indicated above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.
- Acknowledgment of Coverage: An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit.

or

**Denial of Coverage:** If the operator fails to respond to the NOD or the response is inadequate, coverage under the general permit may be denied. If coverage is denied, the operator will be notified.

#### **General Permit (Your Permit)**

For NOIs submitted **electronically** through ePermits, provisional coverage under the general permit begins immediately following confirmation of receipt of the NOI form by the TCEQ.

For **paper** NOIs, provisional coverage under the general permit begins **7 days** after a completed NOI is postmarked for delivery to the TCEQ.

You should have a copy of your general permit when submitting your application. You may view and print your permit for which you are seeking coverage, on the TCEQ web site <u>http://www.tceq.texas.gov</u>. Search using keyword TXR150000.

#### **Change in Operator**

An authorization under the general permit is not transferable. If the operator of the regulated project or site changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted no later than 10 days prior to the change in Operator status.

#### TCEQ Central Registry Core Data Form

The Core Data Form has been incorporated into this form. Do not send a Core Data Form to TCEQ. After final acknowledgment of coverage under the general permit, the program will assign a Customer Number and Regulated Entity Number, if one has not already been assigned to this customer or site.

For existing customers and sites, you can find the Customer Number and Regulated Entity Number by entering the following web address into your internet browser: http://www15.tceq.texas.gov/crpub/ or you can contact the TCEQ Stormwater Processing Center at 512–239–3700 for assistance. On the website, you can search by your permit number, the Regulated Entity (RN) number, or the Customer Number (CN). If you do not know these numbers, you can select "Advanced Search" to search by permittee name, site address, etc.

The Customer (Permittee) is responsible for providing consistent information to the TCEQ, and for updating all CN and RN data for all authorizations as changes occur. For this permit, a Notice of Change form must be submitted to the program area.

#### INSTRUCTIONS FOR FILLING OUT THE NOI FORM

**Renewal of General Permit.** Dischargers holding active authorizations under the expired General Permit are required to submit a NOI to continue coverage. The existing permit number is required. If the permit number is not provided or has been terminated, expired, or denied, a new permit number will be issued.

#### Section 1. OPERATOR (APPLICANT)

#### a) Customer Number (CN)

TCEQ's Central Registry will assign each customer a number that begins with CN, followed by nine digits. **This is not a permit number, registration number, or license number**.

If the applicant is an existing TCEQ customer, the Customer Number is available at the following website: <u>http://www15.tceq.texas.gov/crpub/</u>. If the applicant is not an existing TCEQ customer, leave the space for CN blank.

#### b) Legal Name of Applicant

Provide the current legal name of the applicant. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, as filed in the county. You may contact the SOS at 512–463–5555, for more information related to filing in Texas. If filed in the county, provide a copy of the legal documents showing the legal name.

#### c) Contact Information for the Applicant (Responsible Authority)

Provide information for the person signing the application in the Certification section. This person is also referred to as the Responsible Authority.

Provide a complete mailing address for receiving mail from the TCEQ. The mailing address must be recognized by the US Postal Service. You may verify the address on the following website: <u>https://tools.usps.com/go/ZipLookupAction!input.action</u>.

The phone number should provide contact to the applicant.

The fax number and e-mail address are optional and should correspond to the applicant.

#### d) Type of Customer (Entity Type)

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type. Note that the selected entity type also indicates the name that must be provided as an applicant for an authorization.

#### **Individual**

An individual is a customer who has not established a business, but conducts an activity that needs to be regulated by the TCEQ.

#### **Partnership**

A customer that is established as a partnership as defined by the Texas Secretary of State Office (TX SOS). If the customer is a 'General Partnership' or 'Joint Venture' filed in the county (not filed with TX SOS), the legal name of each partner forming the 'General Partnership' or 'Joint Venture' must be provided. Each 'legal entity' must apply as a co-applicant.

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#### Trust or Estate

A trust and an estate are fiduciary relationships governing the trustee/executor with respect to the trust/estate property.

#### Sole Proprietorship (DBA)

A sole proprietorship is a customer that is owned by only one person and has not been incorporated. This business may:

- 1. be under the person's name
- 2. have its own name (doing business as or DBA)
- 3. have any number of employees.

If the customer is a Sole Proprietorship or DBA, the 'legal name' of the individual business 'owner' must be provided. The DBA name is not recognized as the 'legal name' of the entity. The DBA name may be used for the site name (regulated entity).

#### **Corporation**

A customer that meets all of these conditions:

- 1. is a legally incorporated entity under the laws of any state or country
- 2. is recognized as a corporation by the Texas Secretary of State
- 3. has proper operating authority to operate in Texas

The corporation's 'legal name' as filed with the Texas Secretary of State must be provided as applicant. An 'assumed' name of a corporation is not recognized as the 'legal name' of the entity.

#### **Government**

Federal, state, county, or city government (as appropriate)

The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's 'legal name' must be provided as the applicant. A department name or other description of the organization is not recognized as the 'legal name'.

#### <u>Other</u>

This may include a utility district, water district, tribal government, college district, council of governments, or river authority. Provide the specific type of government.

#### e) Independent Entity

Check No if this customer is a subsidiary, part of a larger company, or is a governmental entity. Otherwise, check Yes.

#### f) Number of Employees

Check one box to show the number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the application.

#### g) Customer Business Tax and Filing Numbers

These are required for Corporations and Limited Partnerships. These are not required for Individuals, Government, and Sole Proprietors.

#### State Franchise Tax ID Number

Corporations and limited liability companies that operate in Texas are issued a franchise tax identification number. If this customer is a corporation or limited liability company, enter the Tax ID number.

#### Federal Tax ID

All businesses, except for some small sole proprietors, individuals, or general partnerships should have a federal taxpayer identification number (TIN). Enter this number here. Use no prefixes, dashes, or hyphens. Sole proprietors, individuals, or general partnerships do not need to provide a federal tax ID.

#### TX SOS Charter (filing) Number

Corporations and Limited Partnerships required to register with the Texas Secretary of State are issued a charter or filing number. You may obtain further information by calling SOS at 512–463–5555.

#### **DUNS Number**

Most businesses have a DUNS (Data Universal Numbering System) number issued by Dun and Bradstreet Corp. If this customer has one, enter it here.

#### Section 2. APPLICATION CONTACT

Provide the name and contact information for the person that TCEQ can contact for additional information regarding this application.

#### Section 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

#### a) Regulated Entity Number (RN)

The RN is issued by TCEQ's Central Registry to sites where an activity is regulated by TCEQ. This is not a permit number, registration number, or license number. Search TCEQ's Central Registry to see if the site has an assigned RN at <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a>. If this regulated entity has not been assigned an RN, leave this space blank.

If the site of your business is part of a larger business site, an RN may already be assigned for the larger site. Use the RN assigned for the larger site.

If the site is found, provide the assigned RN and provide the information for the site to be authorized through this application. The site information for this authorization may vary from the larger site information.

An example is a chemical plant where a unit is owned or operated by a separate corporation that is accessible by the same physical address of your unit or facility. Other examples include industrial parks identified by one common address but different corporations have control of defined areas within the site. In both cases, an RN would be assigned for the physical address location and the permitted sites would be identified separately under the same RN.

#### b) Name of the Project or Site

Provide the name of the site or project as known by the public in the area where the site is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity name.

#### c) Description of Activity Regulated

In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the SIC Code description.

#### d) County

Provide the name of the county where the site or project is located. If the site or project is located in more than one county, provide the county names as secondary.

#### e) Latitude and Longitude

Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to: <u>http://www.tceq.texas.gov/gis/sqmaview.html</u>.

#### f) Site Address/Location

If a site has an address that includes a street number and street name, enter the complete address for the site in *Section A*. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate a site. Please confirm this to be a complete and valid address. Do not use a rural route or post office box for a site location.

If a site does not have an address that includes a street number and street name, provide a complete written location description in *Section B*. For example: "The site is located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1."

Provide the city (or nearest city) and zip code of the site location.

#### Section 4. GENERAL CHARACTERISTICS

#### a) Indian Country Lands

If your site is located on Indian Country Lands, the TCEQ does not have authority to process your application. You must obtain authorization through EPA Region 6, Dallas. Do not submit this form to TCEQ.

# b) Construction activity associated with facility associated with exploration, development, or production of oil, gas, or geothermal resources

If your activity is associated with oil and gas exploration, development, or production, you may be under jurisdiction of the Railroad Commission of Texas (RRC) and may need to obtain authorization from EPA Region 6.

Construction activities associated with a facility related to oil, gas or geothermal resources may include the construction of a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a

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carbon dioxide geologic storage facility; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel.

Where required by federal law, discharges of stormwater associated with construction activities under the RRC's jurisdiction must be authorized by the EPA and the RRC, as applicable. Activities under RRC jurisdiction include construction of a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources, such as a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility under the jurisdiction of the RRC; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel. The RRC also has jurisdiction over stormwater from land disturbance associated with a site survey that is conducted prior to construction of a facility that would be regulated by the RRC. Under 33 U.S.C. §1342(l)(2) and §1362(24), EPA cannot require a permit for discharges of stormwater from field activities or operations associated with {oil and gas} exploration, production, processing, or treatment operations, or transmission facilities, including activities necessary to prepare a site for drilling and for the movement and placement of drilling equipment, whether or not such field activities or operations may be considered to be construction activities unless the discharge is contaminated by contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the facility. Under §3.8 of this title (relating to Water Protection), the RRC prohibits operators from causing or allowing pollution of surface or subsurface water. Operators are encouraged to implement and maintain best management practices (BMPs) to minimize discharges of pollutants, including sediment, in stormwater during construction activities to help ensure protection of surface water quality during storm events.

For more information about the jurisdictions of the RRC and the TCEQ, read the Memorandum of Understanding (MOU) between the RRC and TCEQ at 16 Texas Administrative Code, Part 1, Chapter 3, Rule 3.30, by entering the following link into an internet browser:

http://texreg.sos.state.tx.us/public/readtac\$ext.TacPage?sl=R&app=9&p\_dir=&p\_rloc =&p\_tloc=&p\_ploc=&pg=1&p\_tac=&ti=16&pt=1&ch=3&rl=30 or contact the TCEQ Stormwater Team at 512-239-4671 for additional information.

#### c) Primary Standard Industrial Classification (SIC) Code

Provide the SIC Code that best describes the construction activity being conducted at this site.

Common SIC Codes related to construction activities include:

- 1521 Construction of Single Family Homes
- 1522 Construction of Residential Buildings Other than Single Family Homes
- 1541 Construction of Industrial Buildings and Warehouses

- 1542 Construction of Non-residential Buildings, other than Industrial Buildings and Warehouses
- 1611 Highway and Street Construction, except Highway Construction
- 1622 Bridge, Tunnel, and Elevated Highway Construction
- 1623 Water, Sewer, Pipeline and Communications, and Power Line Construction

For help with SIC Codes, enter the following link into your internet browser: <u>http://www.osha.gov/pls/imis/sicsearch.html</u> or you can contact the TCEQ Small Business and Local Government Assistance Section at 800–447–2827 for assistance.

#### d) Secondary SIC Code

Secondary SIC Code(s) may be provided. Leave this blank if not applicable. For help with SIC Codes, enter the following link into your internet browser: <u>http://www.osha.gov/pls/imis/sicsearch.html</u> or you can contact the TCEQ Small Business and Environmental Assistance Section at 800–447–2827 for assistance.

#### e) Total Number of Acres Disturbed

Provide the approximate number of acres that the construction site will disturb. Construction activities that disturb less than one acre, unless they are part of a larger common plan that disturbs more than one acre, do not require permit coverage. Construction activities that disturb between one and five acres, unless they are part of a common plan that disturbs more than five acres, do not require submission of an NOI. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

If you have any questions about this item, please contact the stormwater technical staff by phone at 512–239–4671 or by email at swgp@tceq.texas.gov.

#### f) Common Plan of Development

Construction activities that disturb less than five acres do not require submission of an NOI unless they are part of a common plan of development or for sale where the area disturbed is five or more acres. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

For more information on what a common plan of development is, refer to the definition of "Common Plan of Development" in the Definitions section of the general permit or enter the following link into your internet browser: www.tceq.texas.gov/permitting/stormwater/common\_plan\_of\_development\_steps.html

For further information, go to the TCEQ stormwater construction webpage enter the following link into your internet browser: <u>www.tceq.texas.gov/goto/construction</u> and search for "Additional Guidance and Quick Links". If you have any further questions about the Common Plan of Development you can contact the TCEQ Stormwater Team at 512–239–4671 or the TCEQ Small Business and Environmental Assistance at 800–447–2827.

#### g) Estimated Start Date of the Project

This is the date that any construction activity or construction support activity is initiated at the site. If renewing the permit provide the original start date of when construction activity for this project began.

#### h) Estimated End Date of the Project

This is the date that any construction activity or construction support activity will end and final stabilization will be achieved at the site.

#### i) Will concrete truck washout be performed at the site?

Indicate if you expect that operators of concrete trucks will washout concrete trucks at the construction site.

#### j) Identify the water body(s) receiving stormwater runoff

The stormwater may be discharged directly to a receiving stream or through a MS4 from your site. It eventually reaches a receiving water body such as a local stream or lake, possibly via a drainage ditch. You must provide the name of the water body that receives the discharge from the site (a local stream or lake).

If your site has more than one outfall you need to include the name of the first water body for each outfall, if they are different.

#### k) Identify the segment number(s) of the classified water body(s)

Identify the classified segment number(s) receiving a discharge directly or indirectly. Enter the following link into your internet browser to find the segment number of the classified water body where stormwater will flow from the site: <u>www.tceq.texas.gov/waterquality/monitoring/viewer.html</u> or by contacting the TCEQ Water Quality Division at (512) 239–4671 for assistance.

You may also find the segment number in TCEQ publication GI-316 by entering the following link into your internet browser: <u>www.tceq.texas.gov/publications/gi/gi-316</u> or by contacting the TCEQ Water Quality Division at (512) 239–4671 for assistance.

If the discharge is into an unclassified receiving water and then crosses state lines prior to entering a classified segment, select the appropriate watershed:

- 0100 (Canadian River Basin)
- 0200 (Red River Basin)
- 0300 (Sulfur River Basin)
- 0400 (Cypress Creek Basin)
- 0500 (Sabine River Basin)

Call the Water Quality Assessments section at 512–239–4671 for further assistance.

#### l) Discharge into MS4 - Identify the MS4 Operator

The discharge may initially be into a municipal separate storm sewer system (MS4). If the stormwater discharge is into an MS4, provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, county, or utility district, but possibly can be another form of government. Please note

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that the Construction General Permit requires the Operator to supply the MS4 with a copy of the NOI submitted to TCEQ. For assistance, you may call the technical staff at 512–239–4671.

#### m) Discharges to the Edwards Aquifer Recharge Zone and Certification

The general permit requires the approved Contributing Zone Plan or Water Pollution Abatement Plan to be included or referenced as a part of the Stormwater Pollution Prevention Plan.

See maps on the TCEQ website to determine if the site is located within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer by entering the following link into an internet browser: <u>www.tceq.texas.gov/field/eapp/viewer.html</u> or by contacting the TCEQ Water Quality Division at 512–239–4671 for assistance.

If the discharge or potential discharge is within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, a site-specific authorization approved by the Executive Director under the Edwards Aquifer Protection Program (30 TAC Chapter 213) is required before construction can begin.

For questions regarding the Edwards Aquifer Protection Program, contact the appropriate TCEQ Regional Office. For projects in Hays, Travis and Williamson Counties: Austin Regional Office, 12100 Park 35 Circle, Austin, TX 78753, 512–339–2929. For Projects in Bexar, Comal, Kinney, Medina and Uvalde Counties: TCEQ San Antonio Regional Office, 14250 Judson Rd., San Antonio, TX 78233–4480, 210–490–3096.

#### Section 5. NOI CERTIFICATION

- Note: Failure to indicate Yes to all of the certification items may result in denial of coverage under the general permit.
- a) Certification of Understanding the Terms and Conditions of Construction General Permit (TXR150000)

Provisional coverage under the Construction General Permit (TXR150000) begins 7 days after the completed paper NOI is postmarked for delivery to the TCEQ. Electronic applications submitted through ePermits have immediate provisional coverage. You must obtain a copy and read the Construction General Permit before submitting your application. You may view and print the Construction General Permit for which you are seeking coverage at the TCEQ web site by entering the following link into an internet browser: www.tceq.texas.gov/goto/construction or you may contact the TCEQ Stormwater processing Center at 512–239–3700 for assistance.

#### b) Certification of Legal Name

The full legal name of the applicant as authorized to do business in Texas is required. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at 512–463 5555, for more information related to filing in Texas.

#### c) Understanding of Notice of Termination

A permittee shall terminate coverage under the Construction General Permit through the submittal of a NOT when the operator of the facility changes, final stabilization has been reached, the discharge becomes authorized under an individual permit, or the construction activity never began at this site.

#### d) Certification of Stormwater Pollution Prevention Plan

The SWP3 identifies the areas and activities that could produce contaminated runoff at your site and then tells how you will ensure that this contamination is mitigated. For example, in describing your mitigation measures, your site's plan might identify the devices that collect and filter stormwater, tell how those devices are to be maintained, and tell how frequently that maintenance is to be carried out. You must develop this plan in accordance with the TCEQ general permit requirements. This plan must be developed and implemented before you complete this NOI. The SWP3 must be available for a TCEQ investigator to review on request.

#### Section 6. APPLICANT CERTIFICATION SIGNATURE

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

#### If you are a corporation:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(1) (see below). According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

#### If you are a municipality or other government entity:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(3) (see below). According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the TCEQ's Environmental Law Division at 512–239–0600.

#### 30 Texas Administrative Code

#### §305.44. Signatories to Applications

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the

corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second–quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post–closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

# Texas Commission on Environmental Q u a lity General Permit Payment Submittal Form

Use this form to submit your Application Fee only if you are mailing your payment.

#### **Instructions:**

- Complete items 1 through 5 below:
- Staple your check in the space provided at the bottom of this document.
- Do not mail this form with your NOI form.
- Do not mail this form to the same address as your NOL

#### Mail this form and your check to either of the following:

By Regular U.S. Mail	By Overnight or Express Mail
Texas Commission on Environmental Quality	Texas Commission on Environmental Quality
Financial Administration Division	Financial Administration Division
Cashier's Office, MC–214	Cashier's Office, MC-214
P.O. Box 13088	12100 Park 35 Circle
Austin, TX 78711-3088	Austin, TX 78753

#### Fee Code: GPA General Permit: TXR150000

- 1. Check or Money Order No:
- 2. Amount of Check/Money Order:
- 3. Date of Check or Money Order:
- 4. Name on Check or Money Order:
- 5. NOI Information:

If the check is for more than one NOI, list each Project or Site (RE) Name and Physical Address exactly as provided on the NOI. **Do not submit a copy of the NOI with this form, as it could cause duplicate permit application entries!** 

If there is not enough space on the form to list all of the projects or sites the authorization will cover, then attach a list of the additional sites.

Project/Site (RE) Name:

Project/Site (RE) Physical Address:

#### Staple the check or money order to this form in this space.

# 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	Luis Bordes
	Print Name
	Authorized Agent
	Title - Owner/President/Other
of	Cypressbrook 290, LP Corporation/Partnership/Entity Name
have authorized	Pape-Dawson Consulting Engineers, LLC Print Name of Agent/Engineer
of	Pape-Dawson Consulting Engineers, LLC Print Name of Firm
to represent and act (	on the behalf of the above named Corporation Partnership or En

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

I also understand that:

- 1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
- 2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
- 3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
- 4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
- 5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

8-14-2023

Date

THE STATE OF TY §

County of Montgament §

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

GIVEN under my hand and seal of office on this 12 day of august ,2003.

JODI KAY FITCH Notary Public, State of Texas Comm. Expires 03-20-2024 Notary ID 126453979

NOTARY PUBLIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 3/20/2024

# APPLICATION FEE FORM (TCEQ-0574)

# **Application Fee Form**

Texas Commission on Environmental Quality									
Name of Proposed Regulated Entity: <u>Ariza 290 West - WWTP</u>									
Regulated Entity Location: 13900	) W. US-290, Dripping Spr	ings TX 78620							
Name of Customer: Cypressbroo	<u>k 290 LP</u>								
Contact Person: Luis Bordes	Phone	e: <u>632-602-4779</u>							
Customer Reference Number (if	issued):CN <u>605996032</u>								
<b>Regulated Entity Reference Num</b>	ber (if issued):RN <u>111458</u>	<u>402</u>							
Austin Regional Office (3373)									
🖂 Hays	Travis	🗌 Wil	liamson						
San Antonio Regional Office (33	62)								
Bexar	Medina	Uva	lde						
Comal	Kinney								
Application fees must be paid by	check, certified check, or	r money order, payable	e to the <b>Texas</b>						
Commission on Environmental (									
form must be submitted with yo	-	•	•						
Austin Regional Office	Sa	an Antonio Regional Office							
Mailed to: TCEQ - Cashier	_	vernight Delivery to: TCEQ - Cashier							
Revenues Section		2100 Park 35 Circle							
Mail Code 214		uilding A, 3rd Floor							
P.O. Box 13088		ustin, TX 78753							
Austin, TX 78711-3088		12)239-0357							
Site Location (Check All That Ap		,							
Recharge Zone	Contributing Zone	Transit	ion Zone						
Type of P	lan	Size	Fee Due						
Water Pollution Abatement Pla	n, Contributing Zone								
Plan: One Single Family Resider	ntial Dwelling	Acres	\$						
Water Pollution Abatement Pla	n, Contributing Zone								
Plan: Multiple Single Family Res	sidential and Parks	Acres	\$						
Water Pollution Abatement Pla									
Plan: Non-residential	9.167 Acres	\$ 5,000 **							
Sewage Collection System	L.F.	\$							
Lift Stations without sewer lines	Acres	\$							
Underground or Aboveground S	Storage Tank Facility	Tanks	\$						
Piping System(s)(only)		Each	\$						
Exception		Each	\$						
Extension of Time		Each	\$						

\*\*review fees (\$5,000) have been retained from previous withdraw of an application under RN111458402 for \$6,500 to be applied to this application and subsequent multi-family application.

Shelly Mikned

Signature:

Date: 03/05/2024

# **Application Fee Schedule**

### **Texas Commission on Environmental Quality**

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

## Water Pollution Abatement Plans and Modifications Contributing Zone Plans and Modifications

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

### Organized Sewage Collection Systems and Modifications

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

# Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

### Exception Requests

Project	Fee			
Exception Request	\$500			

## Extension of Time Requests

Project	Fee
Extension of Time Request	\$150

# CORE DATA FORM (TCEQ-10400)



# **TCEQ Core Data Form**

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

### **SECTION I: General Information**

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)									
Renewal (Core Data Form should be		ith the re	enewal form		Other     S. Regulated Entity Reference Number (if issued)				
2. Customer Reference Number (if issue	ued)		<u>this link to sea</u> or RN numbe		3. Regu	lated Entity	Reference	e Number ( <i>l</i> i	t issued)
CN 605996032					<b>RN</b> 1	11458402			
SECTION II: Customer Information									
4. General Customer Information 5. Effective Date for Customer In					nation U	pdates (mm/	dd/yyyy)		
New Customer     Change in Legal Name (Verifiable with			o Customer				•	Regulated E	intity Ownership
The Customer Name submitted							,	rent and	active with the
Texas Secretary of State (SOS)	•	•			•			i ont und	
6. Customer Legal Name (If an individual,		•				w Customer,	enter previ	ous Custome	er below:
Cypressbrook 290 LP	-		,						
7. TX SOS/CPA Filing Number	8. TX State	Tax ID //	11 digits)		9 F	ederal Tax II	) (A digita)		SNumber (if applicable)
1. TA OOO/OF A Fining Rumber	o. TA oldic				5.1		(9 uigits)	IU. DONG	
11. Type of Customer: Corporation	on		🗌 Individ	ual		Partnership	D: 🗌 Genera	al 🖂 Limited	
Government: City County Federal	] State 🗌 Other		Sole P	ropriet	rietorship 🔲 Other:				
12. Number of Employees					13. Independently Owned and Operated?				ted?
0-20 21-100 101-250	251-500	501 and higher Yes No							
14. Customer Role (Proposed or Actual) –						Please check	one of the	following	
Operational Licenses			⊠ Owner 8	•	ator nup Appli	icont	Other:		
Occupational Licensee Respon	nsible Party	L		y Clear	пир Аррі		Other.		
15. Mailing									
Address:									l
City		Sta	ate		ZIP			ZIP + 4	
16. Country Mailing Information (if outside	le USA)			17. E	-Mail Ad	dress (if appli	cable)		
					ordes@cypressbrook.com				
18. Telephone Number		19. Ext	ension or (	Code		20. Fa	x Numbe	<b>r</b> (if applicab	le)
(1)						(	) .	-	

## **SECTION III: Regulated Entity Information**

		" is selected below this form should be accompanied by a permit application)
New Regulated Entity Update	to Regulated Entity Name	Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ 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.)

Ariza 290 West-WWTP

	12000	W US 200									
23. Street Address of		W. US-290									
the Regulated Entity: (No PO Boxes)	Dripping Springs						- 1				1
	City		State	T	X	ZIP	7862	20	ZIP	+ 4	
24. County	Hays										
Enter Physical Location Description if no street address is provided.											
25. Description to Physical Location:											
26. Nearest City	ty State Nearest ZIP Code										
Dripping Springs							ΤX			786	520
27. Latitude (N) In Decin	nal:	30.19696	3		28. Lo	ongitude	(W) In De	cimal:	-98.00	)676	54
Degrees	Minutes		Seconds			S	Minutes				Seconds
30		11	49.1		98 (			00 24.4			
29. Primary SIC Code (4	ry 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)							CS Code			
1629	1	623		23	7990		237110				
33. What is the Primary	Business	of this entity?	(Do not repeat the S	IC or NA	NCS desc	ription.)					
Construction of wa	stewate	r treatment p	olant								
				1	1776 Wo	oodstead	l Ct.				
34. Mailing Address:					Su	ite 218					
Address:	City	Spring	State		ТΧ	ZIP		77380	ZIP	+ 4	
35. E-Mail Address	:			lb	ordes@	) cypress	brook.co	m			L
36. Telepho	36. Telephone Number 37. Extension or Code 38. Fax Number ( <i>if applicable</i> )							cable)			
(832)6	(832)602-4779 ()-										
9. TCEQ Programs and ID orm. See the Core Data Form				permits/	/registrati	on numbe	ers that will	be affected	by the up	dates	submitted on this
Dam Safety	🗌 Distr	ricts	Edwards Ad	quifer		🗌 Emis	sions Inver	ntory Air	Industrial Hazardous Waste		

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

# **SECTION IV: Preparer Information**

40. Name:	40. Name: Jean Autrey, P.E., CESSWI				Project Manager
42. Telephone Number 43. Ext./Code 44. Fax Number		45. E-Mail Address			
(210)	375-9000		(210)375-9010	jautrey@	pape-dawson.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:	Pape-Dawson Engineers, Inc. Job Title: Vice Pres		sident		
Name (In Print):	Shelly Mitchell, P.E.			Phone:	( 512 ) 454- <b>8711</b>
Signature:	Shelly Mitchell			Date:	03/05/2024

# POLLUTANT LOAD AND REMOVAL CALCULATIONS

#### ARIZA 290 WEST - WWTP LEGAL BOUNDARY 9.167 AC Treatment Summary by Watershed

Watershed	Total Watershed Area (ac.)	Proposed Impervious Cover (ac.)	Total Impervious Cover TO TREAT (ac)	РВМР	Required TSS Removal Annually @85% (Ibs)	-	Required TSS Removal Annually for OEM (lbs)	TSS Removed Annually (lbs)
С	0.242	0.242	0.242	Jellyfish-WWTP	231	217	221	231
E	0.097	0.097	0.097	self treating TCEQ Permeable Pavers drive	93	87	89	93
F**	0.160	0.160	0.160	Permeable paver (not TCEQ) - 15' VFS	153	144	146	155
G	0.068	0.068	0.068	15' VFS	65	61	62	66
H - 8' sidewalk	0.560	0.056	0.056	reduced width VFS	53	50	51	53
TOTAL	1.13	0.623	0.623		594	559	569	598

\*\*Pervious pavers are considered pervious for City of Dripping Springs but do not comply with TCEQ requirements in this watershed. Treatment provided by 15' VFS shared with watershed G.

#### Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009 Project Name: Ariza 290 V Date Prepared: 3/4/2024 Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in Calculations from RG-348 1. The Required Load Reduction for the total project: Pages 3-27 to Page 3-29 Equation 3.3: L<sub>M</sub> = 28.9(A<sub>N</sub> x P)  $L_{M TOTAL PROJECT}$  = Required TSS removal resulting from the proposed development where:  $A_N$  = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Hays Total project area included in plan \* = 9.167 acres Predevelopment impervious area within the limits of the plan\* = Total post-development impervious area within the limits of the plan\* = 0.00 acres acres Total post-development impervious cover fraction \* = 0.07 inches 33 L<sub>M TOTAL PROJECT</sub> = 594 lbs. \* The values entered in these fields should be for the total project area. Number of drainage basins / outfalls areas leaving the plan area = WS F 2. Drainage Basin Parameters (This information should be provided for each basin)

#### Drainage Basin/Outfall Area No. = VFS-85%

Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area = L <sub>M THIS BASIN</sub> =	0.16 0.00 0.160 1.00 153	acres acres acres lbs.
---	--------------------------------------	---------------------------------

#### 3. Indicate the proposed BMP Code for this basin

Proposed BMP = V	egetated Fi	ilter Strips
Removal efficiency =	85	percent

Aqualogic Car Bioretention Contech Storr Constructed V Extended Dete Grassy Swale Retention / Irri Sand Filter Stormceptor Vegetated Filt Vortechs Wet Basin Wet Vault

4. Calculate Maximum TSS Load Removed (L<sub>R</sub>) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:  $L_R = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$ 

where:

A<sub>c</sub> = Total On-Site drainage area in the BMP catchment area

- A<sub>I</sub> = Impervious area proposed in the BMP catchment area
- A<sub>P</sub> = Pervious area remaining in the BMP catchment area
- $L_{P}$  = TSS Load removed from this catchment area by the proposed BM

A <sub>C</sub> =	0.16	acres
A <sub>I</sub> =	0.160	acres
A <sub>P</sub> =	0.00	acres
L <sub>R</sub> =	155	lbs

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

Desired L <sub>M THIS BASIN</sub> = 155	lbs.
---	------

F = 1.00



#### Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009 Project Name: Ariza 290 V Date Prepared: 3/4/2024 Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in Calculations from RG-348 1. The Required Load Reduction for the total project: Pages 3-27 to Page 3-29 Equation 3.3: L<sub>M</sub> = 28.9(A<sub>N</sub> x P)  $L_{M TOTAL PROJECT}$  = Required TSS removal resulting from the proposed development where:  $A_N$  = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Hays Total project area included in plan \* = 9.167 acres Predevelopment impervious area within the limits of the plan\* = Total post-development impervious area within the limits of the plan\* = 0.00 acres acres Total post-development impervious cover fraction \* = 0.07 inches 33 L<sub>M TOTAL PROJECT</sub> = 594 lbs. \* The values entered in these fields should be for the total project area. Number of drainage basins / outfalls areas leaving the plan area = WS G 2. Drainage Basin Parameters (This information should be provided for each basin)

## Drainage Basin/Outfall Area No. = VFS-85%

Total drainage basin/outfall area =       0.068         Predevelopment impervious area within drainage basin/outfall area =       0.00         Post-development impervious area within drainage basin/outfall area =       0.068         Post-development impervious fraction within drainage basin/outfall area =       1.00         L       L       65	acres acres acres lbs.
--	---------------------------------

#### 3. Indicate the proposed BMP Code for this basin

Proposed BMP = V	egetated Fi	ilter Strips
Removal efficiency =	85	percent

Aqualogic Car Bioretention Contech Storr Constructed V Extended Dete Grassy Swale Retention / Irri Sand Filter Stormceptor Vegetated Filt Vortechs Wet Basin Wet Vault

#### 4. Calculate Maximum TSS Load Removed (L<sub>R</sub>) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:  $L_R = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$ 

where:

 $A_{C}$  = Total On-Site drainage area in the BMP catchment area

- $A_{\rm I}$  = Impervious area proposed in the BMP catchment area
- A<sub>P</sub> = Pervious area remaining in the BMP catchment area
- $L_{\rm R}$  = TSS Load removed from this catchment area by the proposed BN
- $\begin{array}{rrrr} A_{C} = & 0.068 & \text{acres} \\ A_{I} = & 0.068 & \text{acres} \\ A_{P} = & 0.00 & \text{acres} \\ L_{R} = & 66 & \text{lbs} \end{array}$

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

Desired  $L_{M THIS BASIN} = 66$  lbs.

F = 1.00



#### Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009 Project Name: Ariza 290 V Date Prepared: 3/4/2024 Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in Calculations from RG-348 1. The Required Load Reduction for the total project: Pages 3-27 to Page 3-29 Equation 3.3: L<sub>M</sub> = 27.2(A<sub>N</sub> x P)  $L_{M TOTAL PROJECT}$  = Required TSS removal resulting from the proposed development where:  $A_N$  = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Hays Total project area included in plan \* = 9.167 acres Predevelopment impervious area within the limits of the plan\* = Total post-development impervious area within the limits of the plan\* = 0.00 acres acres Total post-development impervious cover fraction \* = 0.07 33 inches L<sub>M TOTAL PROJECT</sub> = 559 lbs. \* The values entered in these fields should be for the total project area Number of drainage basins / outfalls areas leaving the plan area = WS F & G

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

#### Drainage Basin/Outfall Area No. = VFS-TCEQ

Total drainage basin/outfall area =	0.228	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	0.228	acres
Post-development impervious fraction within drainage basin/outfall area =	1.00	
L <sub>M THIS BASIN</sub> =	205	lbs.

#### 3. Indicate the proposed BMP Code for this basin

Proposed BMP = V	egetated F	ilter Strips
Removal efficiency =	85	percent

Aqualogic Car Bioretention Contech Storr Constructed V Extended Dete Grassy Swale Retention / Irri Sand Filter Stormceptor Vegetated Filt Vortechs Wet Basin Wet Vault

#### 4. Calculate Maximum TSS Load Removed (L<sub>R</sub>) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:  $L_R = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$ 

where:

- $A_{C}$  = Total On-Site drainage area in the BMP catchment area
- A<sub>I</sub> = Impervious area proposed in the BMP catchment area
- A<sub>P</sub> = Pervious area remaining in the BMP catchment area
- L<sub>R</sub> = TSS Load removed from this catchment area by the proposed BM
- $\begin{array}{rrrr} A_{C} = & 0.228 & \text{acres} \\ A_{I} = & 0.228 & \text{acres} \\ A_{P} = & 0.00 & \text{acres} \\ L_{R} = & 221 & \text{lbs} \end{array}$

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

Desired L <sub>M THIS BASIN</sub> = 221 Ib	os.
--	-----

F = 1.00

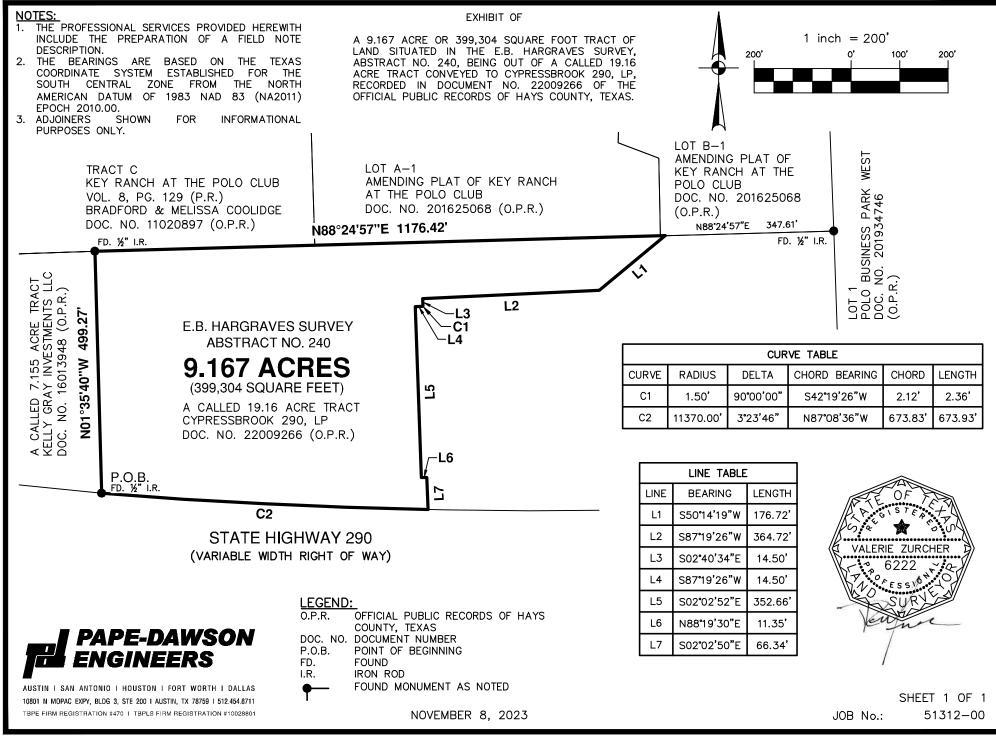


# WWTP 80% TCEQ FILTER CALCULATION

	ne: <mark>Ariza Multifamily - Dripping Springs</mark> ed: 2/27/2024		
1. The Required Load Reduct			
Calculations from RG-348 Pages 3-27 to 3-30	Page 3-29 Equation 3.3: LM = 27.2(AN x P)		
A	$_{\rm T}$ = Required TSS removal resulting from the proposed development = 80% $_{\rm N}$ = Net increase in impervious area for the project P = Average annual precipitation, inches	of increased load	
Site Da	ta: Determine Required Load Removal Based on the Entire Project		
	County =	Hays	
	Total project area included in plan * = Predevelopment impervious area within the limits of the plan * =	<b>9.16</b> 7	acres
	Total post-development impervious area within the limits of the plan <sup>*</sup> =	0.000 0.623	acres
	Total post-development impervious area within the minus of the plan =	0.023	40105
	P = P	33	inches
	$L_{M \text{ TOTAL PROJECT}} =$	559	lbs.
	Number of drainage basins / outfalls areas leaving the plan area =	1	
2. Drainage Basin Parameter	rs (This information should be provided for each basin):		
		MATAZED ELL	_
	Drainage Basin/Outfall Area No. =		
	Total drainage basin/outfall area =	0.242	acres
	Predevelopment impervious area within drainage basin/outfall area =	0.000	acres
	Post-development impervious area within drainage basin/outfall area =	0.242	acres
	Post-development impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$	1.00 217	lbs.
a Tablesta di Sana		/	
3. Indicate the proposed BM			
	Proposed BMP = Removal efficiency =	JF 86	abbreviation percent
<u>4. Calculate Maximum TSS I</u>	load Removed (L <sub>R</sub> ) for this Drainage Basin by the selected BMP Ty	<u>pe.</u>	
	RG-348 Page 3-33 Equation 3.7: LR = (BMP efficiency) x P x (A <sub>1</sub> x 34.6 + A <sub>P</sub> x 0.54)		
А	$_{\rm c}$ = Total On-Site drainage area in the BMP catchment area		
A	$r_1 = 1$ Impervious area proposed in the BMP catchment area $p_1 = 1$ For the BMP catchment area $p_2 = 1$ Pervious area remaining in the BMP catchment area $p_R = TSS$ Load removed from this catchment area by the proposed BMP		
			_
	$A_{C} = A_{I} =$	0.242 0.242	acres
	-1		acres
	$A_{P} =$	0.000	
	$A_P = L_R =$	0.000 238	lbs.
5. Calculate Fraction of Ann	$L_R =$		lbs.
5. Calculate Fraction of Anni	$L_R =$ nal Runoff to Treat the drainage basin / outfall area	238	
5. Calculate Fraction of Annu	$L_R =$		lbs.
	$L_R =$ <b>ual Runoff to Treat the drainage basin</b> / <b>outfall area</b> Desired $L_{MTHISBASIN} =$ F =	238 231	
	$L_R = \\ \label{eq:LR} and Runoff to Treat the drainage basin / outfall area \\ Desired L_{M THIS BASIN} = \\ F = \\ \mbox{guired by the BMP Type for this drainage basin / outfall area.} \\ \label{eq:LR}$	238 231 0.97	lbs.
	$L_R =$ <b>ual Runoff to Treat the drainage basin</b> / <b>outfall area</b> Desired $L_{MTHISBASIN} =$ F =	238 231	
<b>6. Calculate Treated Flow re</b> Calculations from RG-348	$\label{eq:LR} L_R = $$ L_R = $$ L_R = $$ L_M THIS BASIN = $$ Desired $L_M THIS BASIN = $$ F = $$ guired by the BMP Type for this drainage basin / outfall area. $$ Offsite area draining to BMP = $$ Offsite impervious cover draining to BMP = $$ Offsite$	238 231 0.97 0.000	lbs. acres acres
6. Calculate Treated Flow re-	$L_R$ = nal Runoff to Treat the drainage basin / outfall area Desired $L_{M THIS BASIN}$ = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Rainfall Intensity =	238 231 0.97 0.000 0.000 2.00	lbs. acres acres inches per hour
<b>6. Calculate Treated Flow re</b> Calculations from RG-348	L <sub>R</sub> = nal Runoff to Treat the drainage basin / outfall area Desired L <sub>M THIS BASIN</sub> = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Rainfall Intensity = Effective Area =	238 231 0.97 0.000 0.000 2.00 0.218	lbs. acres acres inches per hour acres
<b>6. Calculate Treated Flow re</b> Calculations from RG-348	$L_R$ = nal Runoff to Treat the drainage basin / outfall area Desired $L_{M THIS BASIN}$ = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Rainfall Intensity =	238 231 0.97 0.000 0.000 2.00	lbs. acres acres inches per hour
<b>6. Calculate Treated Flow re</b> Calculations from RG-348	L <sub>R</sub> = nal Runoff to Treat the drainage basin / outfall area Desired L <sub>M THIS BASIN</sub> = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Rainfall Intensity = Effective Area =	238 231 0.97 0.000 0.000 2.00 0.218	lbs. acres acres inches per hour acres
<b>6. Calculate Treated Flow re</b> Calculations from RG-348 Pages Section 3.2.22 <b>7. Jellyfish</b> Designed as Required in RG-348	L <sub>R</sub> = nal Runoff to Treat the drainage basin / outfall area Desired L <sub>M THIS BASIN</sub> = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Coffsite impervious cover draining to BMP = Effective Area = Cartridge Length = Peak Treatment Flow Required =	238 231 0.97 0.000 0.000 2.00 0.218 54	lbs. acres acres inches per hour acres inches
<b>6. Calculate Treated Flow re</b> Calculations from RG-348 Pages Section 3.2.22 <b>7. Jellyfish</b>	L <sub>R</sub> = nal Runoff to Treat the drainage basin / outfall area Desired L <sub>M THIS BASIN</sub> = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Coffsite impervious cover draining to BMP = Effective Area = Cartridge Length = Peak Treatment Flow Required =	238 231 0.97 0.000 0.000 2.00 0.218 54	lbs. acres acres inches per hour acres inches
<b>6. Calculate Treated Flow re</b> Calculations from RG-348 Pages Section 3.2.22 <b>7. Jellyfish</b> Designed as Required in RG-348	L <sub>R</sub> = nal Runoff to Treat the drainage basin / outfall area Desired L <sub>M THIS BASIN</sub> = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Coffsite impervious cover draining to BMP = Effective Area = Cartridge Length = Peak Treatment Flow Required =	238 231 0.97 0.000 0.000 2.00 0.218 54	lbs. acres acres inches per hour acres inches
<b>6. Calculate Treated Flow re</b> Calculations from RG-348 Pages Section 3.2.22 <b>7. Jellyfish</b> Designed as Required in RG-348	L <sub>R</sub> = nal Runoff to Treat the drainage basin / outfall area Desired L <sub>M THIS BASIN</sub> = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Coffsite impervious cover draining to BMP = Effective Area = Cartridge Length = Peak Treatment Flow Required =	238 231 0.97 0.000 0.000 2.00 0.218 54 0.44	lbs. acres acres inches per hour acres inches
<b>6. Calculate Treated Flow re</b> Calculations from RG-348 Pages Section 3.2.22 <b>7. Jellyfish</b> Designed as Required in RG-348	L <sub>R</sub> = nal Runoff to Treat the drainage basin / outfall area Desired L <sub>M THIS BASIN</sub> = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Coffsite impervious cover draining to BMP = Effective Area = Cartridge Length = Peak Treatment Flow Required = Flow Through Jellyfish Size	238 231 0.97 0.000 0.000 2.00 0.218 54 0.44 Vacult	lbs. acres acres inches per hour acres inches cubic feet per second
<b>6. Calculate Treated Flow re</b> Calculations from RG-348 Pages Section 3.2.22 <b>7. Jellyfish</b> Designed as Required in RG-348	L <sub>R</sub> = nal Runoff to Treat the drainage basin / outfall area Desired L <sub>M THIS BASIN</sub> = F = quired by the BMP Type for this drainage basin / outfall area. Offsite area draining to BMP = Offsite impervious cover draining to BMP = Coffsite impervious cover draining to BMP = Effective Area = Cartridge Length = Peak Treatment Flow Required =	238 231 0.97 0.000 0.000 2.00 0.218 54 0.44	lbs. acres acres inches per hour acres inches cubic feet per second

		NOISNER OR OR SHELLY MITCHELL OS OS/OS/2024 Wibuuu
WWTP 85% WTCPUA FILTER CALCULATION	WWTP FILTER OEM FILTER CALCULATION	The second se
Subscription of the control of the	Active the Engineer end Solutions Calculations for Texas Commission on Eavisonmental Quality       Explaining Texas	ARIZA 290 WEST 13900 W. US-290 DRIPPING SPRINGS, TEXAS 78620 WATER QUALITY FILTER CALCULATIONS
Offsite impervious cover draining to BMP =       0.000       acres         Calculations from RG-348       Pages Section 3.2.22       Rainfall Intensity =       2.00       inches per hour         Effective Area =       0.218       acres       carres       inches         Calculations from RG-348       Pages Section 3.2.22       Peak Treatment Flow Required =       0.44       cubic feet per second         Feak Treatment Flow Required =       0.44       cubic feet per second         Total Prish         Designed as Required in RG-348       Section 3.2.22       Vank         Jellyfish Size       Vank       Jellyfish Size         Jellyfish Size for Flow-Based Configuration =       JFPD0406-2-1       Jellyfish Treatment Flow Rate =         Jellyfish Treatment Flow Rate =       0.45       cfs	Offsite impervious cover draining to BMP =       0.000       acres         Calculations from RG-348       Pages Section 3.2.22       Rainfall Intensity =       1.10       inches per hour         Effective Area =       0.218       acres       cares         Cartridge Length =       54       inches         Peak Treatment Flow Required =       0.24       cubic feet per second         7. Jellyfish       Designed as Required in RG-348       section 3.2.22         Flow Through Jellyfish Size       Vacable         Jellyfish Size for Flow-Based Configuration =       JFPD0406-2-1         Jellyfish Treatment Flow Rate =       0.45       cfs	JOB NO. <u>51312–00</u> DATE <u>DECEMBER 2022</u> DESIGNER <u>JR</u> CHECKED DRAWN JW SHEET <u>61 of 74</u>







### FIELD NOTES FOR

A 9.167 ACRE OR 339,304 SQUARE FOOT TRACT OF LAND SITUATED IN THE E.B. HARGRAVES SURVEY, ABSTRACT NO. 240, BEING OUT OF A CALLED 19.16 ACRE TRACT CONVEYED TO CYPRESSBROOK 290, LP, RECORDED IN DOCUMENT NO. 22009266 OF THE OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS. SAID 9.167 ACRE TRACT BEING MORE FULLY DESCRIBED AS FOLLOWS, WITH BEARINGS BASED ON THE TEXAS COORDINATE SYSTEM ESTABLISHED FOR THE SOUTH CENTRAL ZONE FROM THE NORTH AMERICAN DATUM OF 1983 NAD 83 (NA2011) EPOCH 2010.00.

**BEGINNING** at a ½" iron rod found on a point in the north right-of-way line of State Highway 290, a variable width right-of-way, said point being the southwest corner of said 19.16-acre tract, same being the southeast corner of a called 7.155-acre tract conveyed to Kelly Gray Investments LLC., recorded in Document No. 16013948 of the Official Public Records of Hays County, Texas for the southwest corner and **POINT OF BEGINNING** hereof;

**THENCE N 01°35'40" W**, departing the north right-of-way line of said State Highway 290, with the west boundary line of said 19.16-acre tract, same being the east boundary line of said 7.155-acre tract, a distance of **499.27 feet** to a ½" iron rod found on a point in the south boundary line of Tract C, Key Ranch at the Polo Club, a subdivision according to the plat recorded in Volume 8, Page 129 of the Plat Records of Hays County, Texas, conveyed to Bradford & Melissa Coolidge, recorded in Document No. 11020897 of the Official Public Records of Hays County, Texas, said point being the northwest corner of said 19.16-acre tract, same being the northeast corner of said 7.155-acre tract for the northeast corner hereof;

**THENCE N 88°24'57" E**, with the north boundary line of said 19.16-acre tract, same being the south boundary line of said Tract C, and, in part, with the south boundary line of Lot A-1, Amending Plat of Key Ranch at the Pollo Club, a subdivision according to the plat recorded in Document No. 201625068 of the Official Public Records of Hays County, Texas, and, in part with the south boundary line of Lot B-1 of said Amending Plat of Key Ranch at the Polo Club, a distance of **1176.42 feet** to a calculated point for the northeast corner hereof, from which a ½" iron rod found on a point in the west boundary line of Lot 1, Polo Business Park West, a subdivision according to the plat recorded in Document No. 201934746 of the Official Public Records of Hays County, Texas, said point being the northeast corner of said 19.16-acre tract, same being the southeast corner of said Lot B-1 bears N 88°24'57" E, 347.61 feet;

**THENCE** departing the south boundary line of said Lot B-1, through the interior of said 19.16-acre tract the following eight (8) courses and distances:

- 1. **S 50°14'19" W**, a distance of **176.72 feet** to a calculated angle point hereof,
- 2. S 87°19'26" W, a distance of 364.72 feet to a calculated angle point hereof,
- 3. S 02°40'34" E, a distance of 14.50 feet to a calculated point of curvature hereof,

9.167 Acre Job No. 51312-00 Page 2 of 2

- along the arc of a curve to the right, having a radius of 1.50 feet, a central angle of 90°00'00", a chord bearing and distance of S 42°19'26" W, 2.12 feet, an arc length of 2.36 feet to a calculated point of tangency hereof,
- 5. S 87°19'26" W, a distance of 14.50 feet to a calculated angle point hereof,
- 6. S 02°02'52" E, a distance of 352.66 feet to a calculated angle point hereof,
- 7. N 88°19'30" E, a distance of 11.35 feet to a calculated angle point hereof, and
- 8. **S 02°02'50" E**, a distance of **66.34 feet** to a calculated point in the north right-of-way line of said State Highway 290 for the southeast corner and point of non-tangent curvature hereof;

THENCE along the arc of a curve to the right, having a radius of 11370.00 feet, a central angle of 03°23'46", a chord bearing and distance of N 87°08'36" W, 673.83 feet, an arc length of 673.93 feet to the POINT OF BEGINNING and containing 0.713 acres in Hays County, Texas. Said tract being described in accordance with an exhibit prepared by Pape-Dawson Engineers, Inc. under Job No. 51312-00.

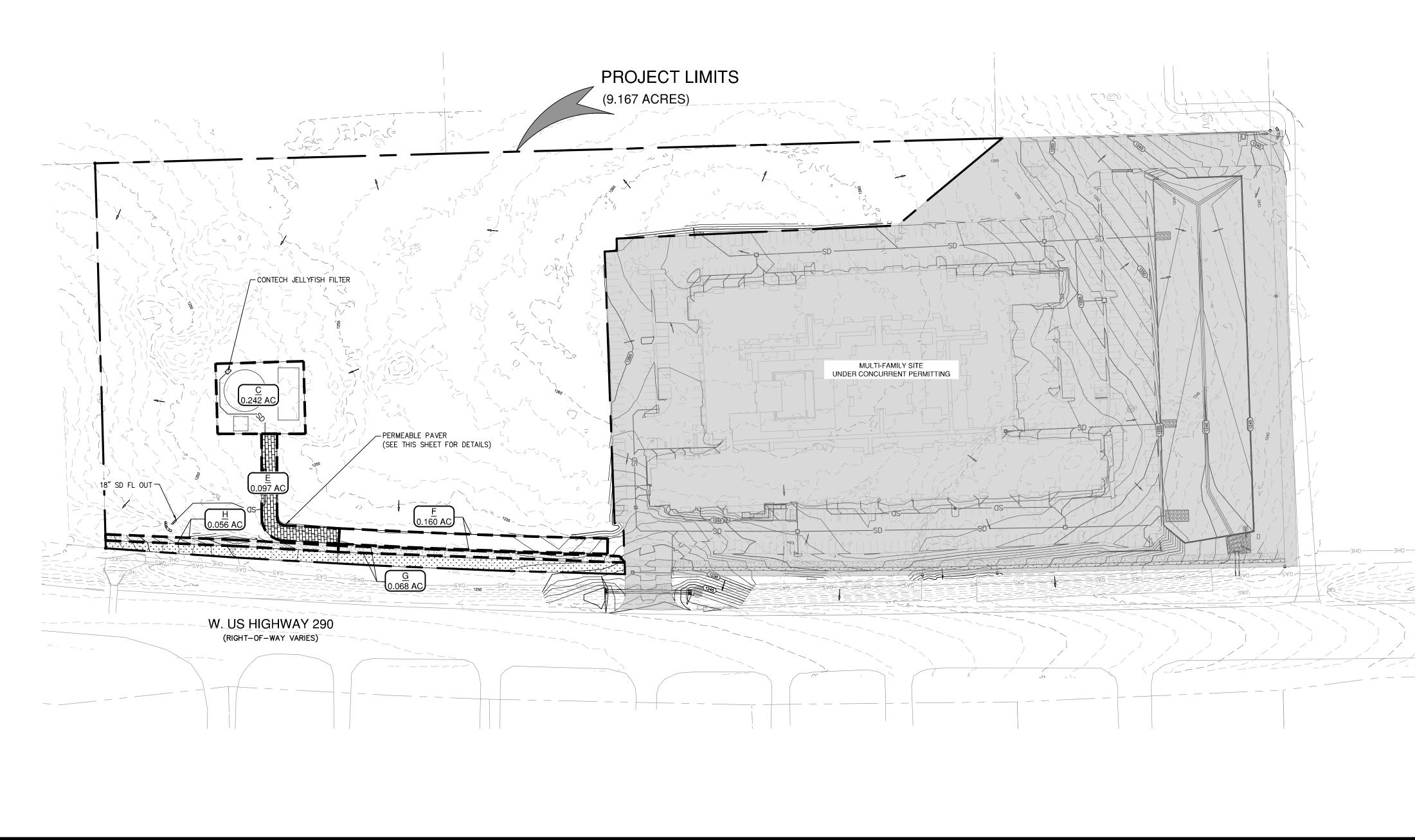
PREPARED BY: Pape-Dawson Engineers, Inc. DATE: November 8, 2023 JOB No.: 51312-00 DOC.ID.: H:\Survey\CIVIL\51312-00\Exhibits\Word\ FN51312-00\_9.167Ac\_SepticLot.docx TBPE Firm Registration #470 TBPLS Firm Registration #100288-01

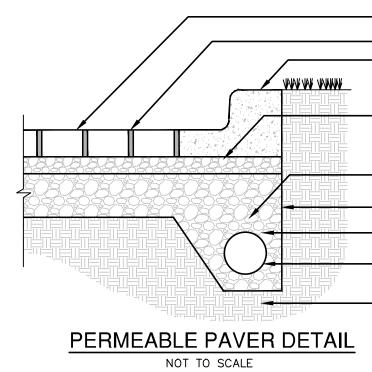


Watershed	Total Watershed Area (ac.)	Proposed Impervious Cover (ac.)	Total Impervious Cover TO TREAT (ac)		Required TSS Removal Annually @85% (Ibs)	Required TSS Removal Annually @80% (Ibs)	Required TSS Removal Annually for OEM (Ibs)	Contraction of the second s
С	0.242	0.242	0.242	Jellyfish-WWTP	231	217	221	231
E	0.097	0.097	0.097	self treating TCEQ Permeable Pavers drive	93	87	89	93
F**	0.160	0.160	0.160	Permeable paver (not TCEQ) - 15' VFS	153	144	146	155
G	0.068	0.068	0.068	15' VFS	65	61	62	66
H - 8' sidewalk	0.560	0.056	0.056	reduced width VFS	53	50	51	53
TOTAL	1.13	0.623	0.623		594	559	569	598

\*\* Pervious pavers are considered pervious for City of Dripping Springs but do not comply with TCEQ requirements in this watershed. Treatment provided by 15' VFS shared with watershed G.

CUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL





 CONCRETE PAVERS MIN. 3<sup>1</sup>/<sub>8</sub>" (80mm) THICK
 TYP. ASTM NO. 8 OR NO. 9 AGGREGATE IN OPENINGS
 CURB/EDGE RESTRAINT WITH CUT-OUTS FOR OVERFLOW DRAINAGE (CURB SHOWN)

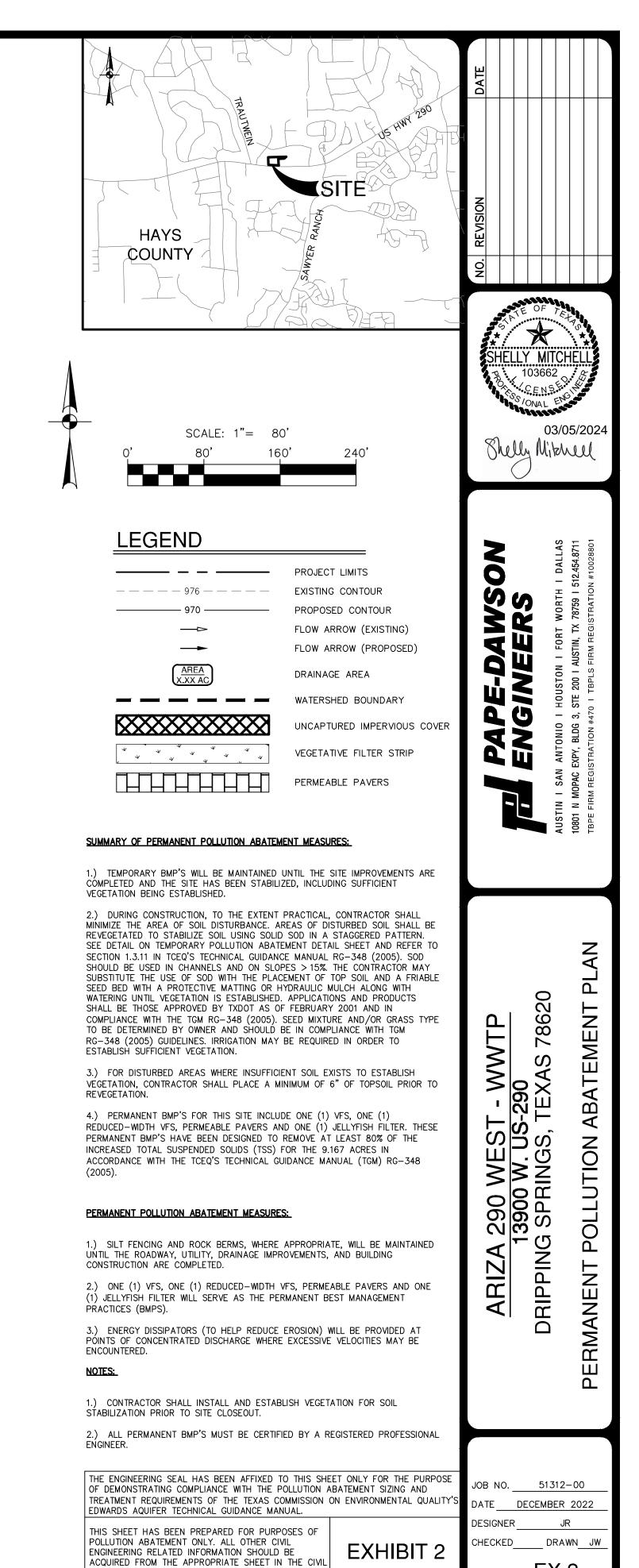
- BEDDING COURSE  $1\frac{1}{2}$ " TO 2" (40mm TO 50mm) THICK (TYP. ASTM NO. 8 OR NO. 9 AGGREGATE)

-MIN. 5" (130mm) THICK ASTM NO. 57 STONE

-IMPERMEABLE LINER (AS APPLICABLE)

-ASTM NO. 57 STONE OPEN-GRADED -PERFORATED PIPE(S) SLOPED TO DRAIN

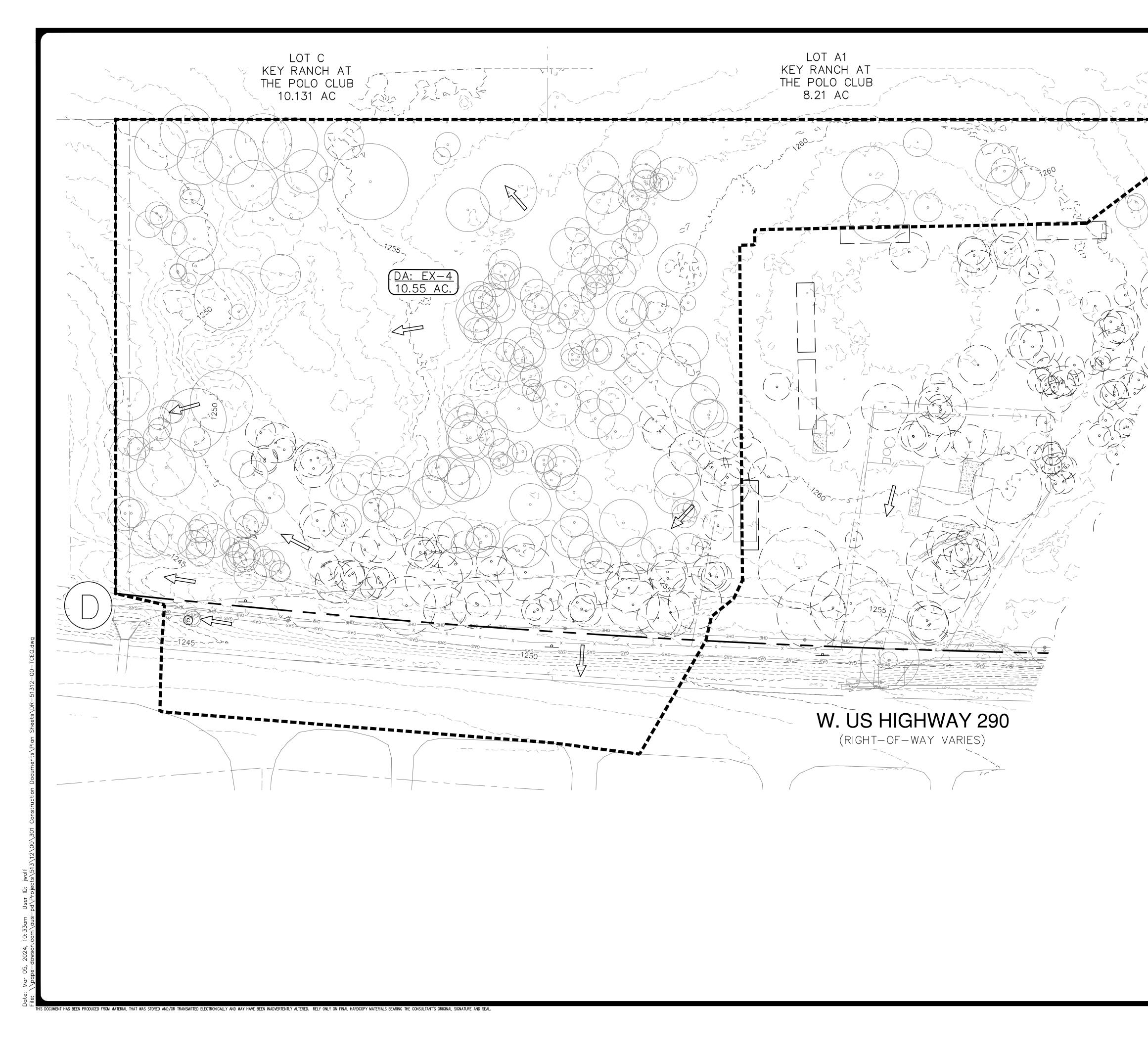
-SOIL SUBGRADE SLOPED TO DRAIN

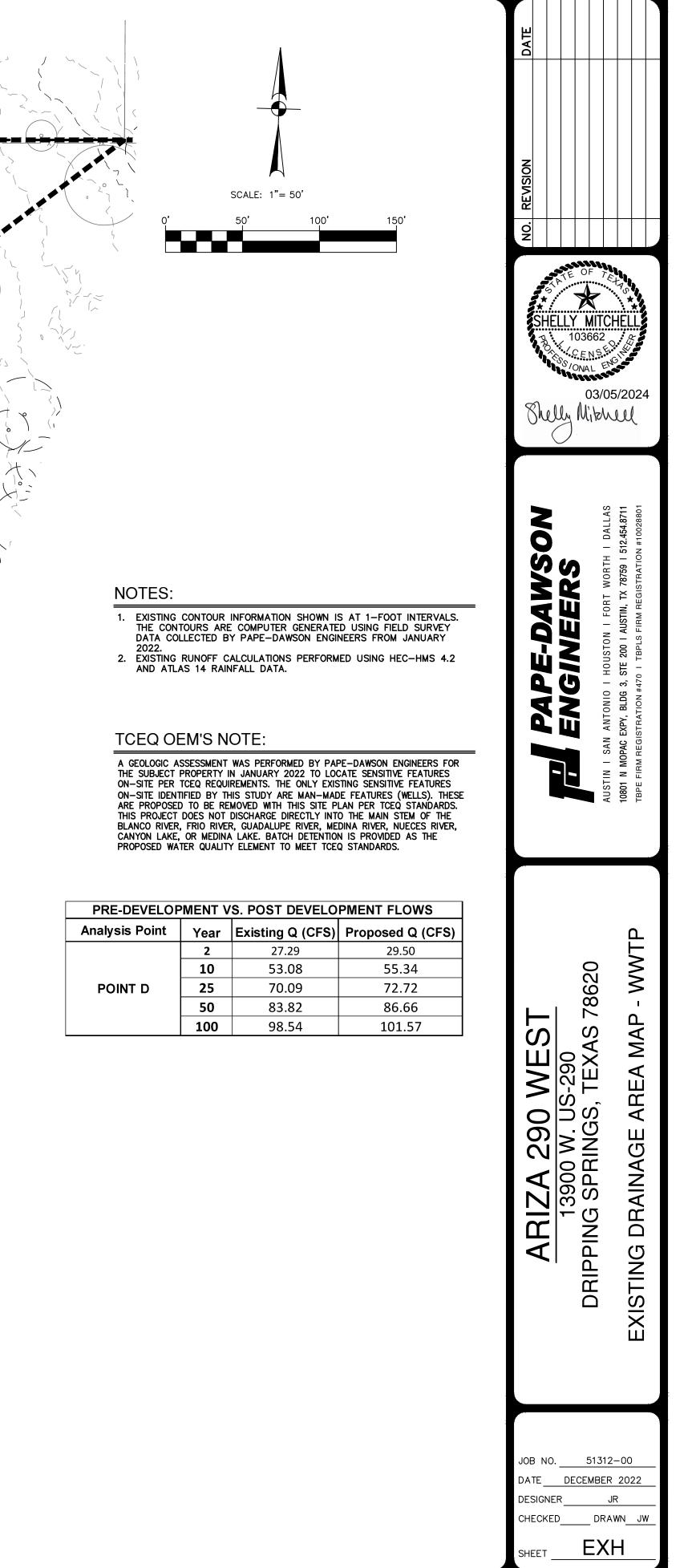


EX 2

SHEET

IMPROVEMENT PLANS.





WEST TRAVIS COUNTY PUA WATER & WASTEWATER UTILITY NOTES:	WTCPUA W
<ol> <li>WEST TRAVIS COUNTY PUA IS THE WATER AND/OR WASTEWATER SERVICE PROVIDER FOR THIS PROJECT. A PRE-CONSTRUCTION MEETING WITH THE WTCPUA SHALL BE HELD PRIOR TO COMMENCEMENT OF CONSTRUCTION TO SCHEDULE INSPECTION OF INSTALLATION OF WATER/WASTEWATER FACILITIES. WATER FACILITIES WILL BE INSPECTED UP TO, AND INCLUDING, THE WATER METER AND/OR FIRE HYDRANTS. THE CONTACT NUMBER FOR WTCPUA IS (512) 263-0100.</li> <li>THE CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARD DETAILS CURRENT AT THE TIME OF CONSTRUCTION SHALL GOVERN MATERIALS AND METHODS USED TO PERFORM THIS WORK.</li> <li>CONTRACTOR SHALL OBTAIN A STREET CUT PERMIT FROM THE CITY OF DRIPPING</li> </ol>	1. ALL CONSTRUCTIO APPLICABLE STATI ADMINISTRATION R PURCHASED FROM RELATED REFEREN STREET, ROOM 30
FIRE HYDRANTS. THE CONTACT NUMBER FOR WTCPUA IS (512) 263-0100. 2. THE CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARD DETAILS CURRENT AT THE TIME OF CONSTRUCTION SHALL COVERN MATERIALS AND METHODS USED	2. THE ATTENTION OF SPRINGS AND HAY
<ul> <li>AT THE TIME OF CONSTRUCTION STALL GOVERN MATERIALS AND METHODS USED TO PERFORM THIS WORK.</li> <li>CONTRACTOR SHALL OBTAIN A STREET CUT PERMIT FROM THE CITY OF DRIPPING SPRINGS AND HAYS COUNTY OR OTHER APPROPRIATE PARTY BEFORE BEGINNING SUPERFORMENT OF A DUBLIC OF DRIPPING SUPERFORMENT OF DRIPPING SUPER</li></ul>	(VERNON'S ANNOT EFFECTIVE PRECAU ELECTRICAL LINES RECURPENENTS AN
<ul> <li>CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.</li> <li>4. THE WTCPUA SHALL BE CONTACTED AT (512) 263-0100 AT LEAST 48 HOURS BEFORE CONNECTING TO THEIR EXISTING WATER AND/OR WASTEWATER FACILITIES.</li> </ul>	ELECTRIC UTILITY
BEFORE CONNECTING TO THEIR EXISTING WATER AND/OR WASTEWATER FACILITIES. 5. THE CONTRACTOR SHALL CONTACT "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. IN ADVANCE OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.	1–800–344–8377 THE LOCATION AN THESE PLANS ARE CONTRACTOR SHA PRIOR TO ANY CO LOCATE AND PRO
<ol> <li>6. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND/OR</li> </ol>	PRECAUTIONS WHE 25 FEET OF ANY 4. THE CONTRACTOR HIMSELF AND OTH
WASTEWATER SERVICES. 7. THE SEPARATION DISTANCE BETWEEN WATER MAINS, WASTEWATER MAINS, AND OTHER UTILITIES SHALL COMPLY WITH TCEQ RULES OR HAVE A VARIANCE APPROVED BY TCEQ BEFORE SUBMITTING PIPING ASSIGNMENTS TO THE WTCPUA.	PROJECT. THIS IN CABLE TELEVISION BECOMES AWARE
8. THE CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARDS WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE. CONTRACT DOCUMENTS, WHICH INCLUDE A TRENCH SAFETY PLAN AND A PAY ITEM FOR TRENCH SAFETY MEASURES, IN COMPLIANCE WITH OSHA, STATE AND ALL CITY OF DRIPPING SPRINGS REQUIREMENTS BEFORE BEGINNING WORK ON THE PROJECT.	5. THE CONTRACTOR MATERIAL FROM T DISPOSED OF BY CONTRACTOR SHA
<ol> <li>ALL MATERIAL TESTS, INCLUDING SOIL DENSITY TESTS AND RELATED SOIL ANALYSIS, SHALL BE ACCOMPLISHED BY AN INDEPENDENT LABORATORY FUNDED BY THE OWNER IN ACCORDANCE WITH CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARD SPECIFICATION ITEM 1804S.</li> </ol>	HOURS PRIOR TO OVERNIGHT IN THE 6. NO BLASTING OR
10. PRESSURE TAPS SHALL BE IN ACCORDANCE WITH CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARDS. CONTRACTOR SHALL PERFORM ALL WORK AND SHALL FURNISH ALL MATERIALS, INSTALL, AND AIR TEST THE SLEEVE AND VALVE.	DAMAGED DURING
CONTRACTOR SHALL SCHEDULE ALL SUCH CONNECTIONS IN ADVANCE AND SUCH SCHEDULE SHALL BE APPROVED BY THE WTCPUA BEFORE BEGINNING THE WORK. AT LEAST 48 HOURS NOTICE SHALL BE GIVEN TO THE WTCPUA PRIOR TO MAKING THE CONNECTION, AND A REPRESENTATIVE FROM THE WTCPUA SHALL BE PRESENT WHEN THE CONNECTION IS MADE. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED, UNLESS IT HAS BEEN DEMONSTRATED THAT A MORE ACCEPTABLE CONNECTION	
WOULD INVOLVE CONSIDERABLE HARDSHIP TO THE UTILITY SYSTEM. ALL TAPS SHALL BE MADE BY USE OF AND APPROVED FULL CIRCLE, GASKETED CAST IRON OR DUCTILE IRON TAPPING SLEEVE. CONCRETE BLOCKING SHALL BE PLACED BEHIND AND UNDER ALL TAP SLEEVES PRIOR TO MAKING THE PRESSURE TAP AND THE USE OF PRECAST BLOCKS MAY BE USED TO HOLD THE TAP IN ITS CORRECTION POSITION PRIOR TO BLOCKING. THE BLOCKING BEHIND AND UNDER THE TAP SHALL HAVE A MINIMUM OF 24 HOURS CURING TIME BEFORE THE VALVE CAN BE DEODENDE FOR SERVICE FROM THAT TAP.	PROJECT OR OTHE
<ol> <li>11. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARDS.</li> <li>12. FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARDS AND SHALL BE APPROVED FIRE DEPARTMENT OR OTHER APPROPRIATE PARTY PRIOR TO INSTALLATION. FIRE HYDRANTS ON MAINS</li> </ol>	PRESENTABLE CON GOVERNMENTAL B PAYMENT. 11. MAINTAIN ACCESS
OTHER APPROPRIATE PARTY PRIOR TO INSTALLATION. FIRE HYDRANTS ON MAINS UNDER CONSTRUCTION SHALL BE SECURELY WRAPPED WITH A POLY WRAP BAG AND TAPED INTO PLACE. THE POLY WRAP WILL BE REMOVED WHEN THE MAINS ARE ACCEPTED AND PLACED IN SERVICE. FIRE HYDRANTS THAT ARE TO BE USED AS DRAWN UNDERNITE SHALL BE DAINTED SUMED WITH A DRAWN TO	WITH PROPERTY O OTHER ACTIVITIES. 12. DEWATERING, IF N
AS DRAIN HYDRANTS SHALL BE PAINTED SILVER W/ BLUE CAPS PRIOR TO ACCEPTANCE. 13. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARDS AND/OR TCEQ	AND SHALL NOT ( 13. MINIMUM DEPTH O WATER LINES SHA INSTALL LINES TO
RULES. 14. TEST PRESSURE FOR 2-HOUR TEST SHALL BE AT 175 PSI AT THE LOWEST POINT IN THE LINE.	14. CONCRETE SHALL OF 3,000 PSI, UN
15. PRIOR TO PRESSURE TESTING, CONTRACTOR SHALL VERIFY THAT THRUST BLOCKING AND/OR THRUST RESTRAINT BACK TO AND INCLUDING THE VALVE AGAINST WHICH THE PRESSURE TEST SHALL BE PERFORMED, HAS BEEN INSTALLED TO AT LEAST THE SPECIFICATIONS OF THIS PROJECT. FAILURE TO VERIFY THAT THRUST BLOCKING AND/OR THRUST RESTRAINT IN THE EXISTING LINE MEETS OR EXCEEDS THE SPECIFICATIONS OF THIS PROJECT MAY RESULT IN SERIOUS DAMAGE TO THE	16. ALL RESPONSIBILI ENGINEER WHO PR RELY ON THE ADE BY THE WTCPUA I
EXISTING WATERLINE. 16. WATER LINES SHALL BE FILLED WITH WATER AND ALL AIR EXPELLED AT LEAST 24 HOURS BEFORE TESTING. ALL SERVICE LATERALS AND DRAIN VALVE LEADS, WITH THE HYDRANT VALVES CLOSED AND NOZZLE CAPS OPEN SHALL BE INCLUDED IN THE TESTS.	WEST TRAV
17. CONTRACTOR SHALL SUBMIT A DISINFECTION AND FLUSHING PLAN IN ACCORDANCE WITH AWWA STANDARDS TO THE WTCPUA FOR APPROVAL. REQUIRED FLUSHING VOLUMES, FLUSHING SCHEDULE, AND METHOD OF DISPOSAL OF FLUSH WATER SHALL BE IN ACCORDANCE WITH THE APPROVED PLAN.	CONTRACT, FROM TH SUBJECT TO COMPLI, WILDLIFE SERVICE ME 2. NO LOTS CONTAIN U INDICATED HEREON
<ol> <li>18. GATE VALVES SHALL BE RESILIENT SEATED GATE VALVES CONFORMING TO AWWA C509, WITH A MINIMUM RATED WORKING PRESSURE OF 250 PSIG.</li> <li>19. FORCE MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF</li> </ol>	3. IMPERVIOUS COVER S SHALL NOT BE ALTE 4. DECLARANT AGREES
DRIPPING SPRINGS AND HAYS COUNTY STANDARDS AND/OR TCEQ RULES. 20. GRAVITY SANITARY SEWER MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF DRIPPING SPRINGS AND HAYS COUNTY STANDARDS AND/OR TCEQ RULES. IN ADDITION, ALL GRAVITY SANITARY SEWER MAINS SHALL BE TELEVISED PRIOR TO ACCEPTANCE BY WTCPUA. DIGITAL FILES (VIA CD-ROM)	2000 USFWS MEMOR TEXAS COMMISSION
CLEARLY SHOWING TELEVISED RECORDING SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOLLOWING INSPECTION. 21. LOCATOR 'FINDER' WIRE – ALL NON-METALLIC WATER LINES SHALL HAVE A FINDER	
WIRE LOCATED ABOVE THE PIPE. THE WIRE SHALL BE POLY-INSULATED NO. 10 SOLID COPPER AND WILL TERMINATE AT EACH ISOLATION VALVE SUCH THAT IT IS ACCESSIBLE FROM THE VALVE BOX. 22. LOCATOR 'FINDER' WIRE - ALL NON-METALLIC WASTEWATER LINES SHALL HAVE A	
FINDER WRE LOCATED ABOVE THE PIPE. THE WRE SHALL BE POLY-INSULATED NO. 10 SOLID COPPER AND WILL TERMINATE AT READILY ACCESSIBLE LOCATIONS THROUGHOUT THE COLLECTION SYSTEM.	
<ul> <li>23. ALL VALVE RISERS SHALL HAVE A 1'-6" SQUARE CONCRETE BOX POURED AROUND THEM AT FINISHED GRADE.</li> <li>24. ALL MANHOLES SHALL BE LINED WITH A CORROSION RESISTANT LINING APPROVED BY THE WTCPUA.</li> </ul>	
25. BOLTED AND GASKETED COVERS SHALL BE USED FOR ALL MANHOLES LOCATED IN THE 100-YEAR FLOODPLAIN. WHERE THERE ARE MORE THAN THREE GASKETED MANHOLES IN A ROW, VENTS SHALL BE PROVIDE ON EVERY THIRD MANHOLE.	
26. THE DOWN STREAM END OF ANY FORCE MAIN SHALL BE TERMINATED IN A SANITARY SEWER MANHOLE IN A MANNER TO MINIMIZE TURBULENCE. 27. CONTRACTOR SHALL HAVE NECESSARY EROSION AND SEDIMENTATION CONTROLS IN	
PLACE PRIOR TO COMMENCING WATER/WASTEWATER FACILITY CONSTRUCTION. 28. RECORD DRAWINGS, AS STIPULATED BY THE WTCPUA, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND FURNISHED TO THE WTCPUA UPON COMPLETION OF	
THE PROJECT. 29. THE WCPUA WILL OWN AND OPERATE ALL WATER LINES AND APPURTENANCES UP TO AND INCLUDING THE WATER METER. THESE IMPROVEMENTS WILL BE DEFINED BY	
A RECORDED EASEMENT OR IN PUBLIC RIGHT-OF-WAY. 30. ANY PORTIONS OF WASTEWATER LINES INCLUDING SERVICES THAT ARE LOCATED OUTSIDE OF A RECORDED EASEMENT OR PUBLIC RIGHT-OF-WAY WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER, OR HIS/HER ASSIGNS.	
AND MAINTAINED BY THE PROPERTY OWNER, OR HIS/HER ASSIGNS. 31. WHERE EXISTING WATER AND/OR WASTEWATER INFRASTRUCTURE IS TO BE ABANDONED, THE ENGINEER SHALL SUBMIT AN ABANDONMENT PLAN FOR APPROVAL BY THE WTCPUA.	
32. WATER SERVICES SHALL BE INSTALLED USING HDPE PIPE. COPPER IS NOT ALLOWED.	
33. FOR ANY STORM SEWER LINE CROSSING A WATER OR WASTEWATER LINE CLOSER THAN 18", THE STORM SEWER PIPE SHALL BE LAID SUCH THAT NO STORM SEWER JOINTS WILL BE OVER THE WATER PIPE CROSSING.	

OCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

PUA WATER & WASTEWATER ERAL CONSTRUCTION NOTES:

- ONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH CABLE STATE STATUTES AND U.S. OCCUPATIONAL SAFETY AND HEALTH ISTRATION REGULATIONS (O.S.H.A.). COPIES OF O.S.H.A. STANDARDS MAY BE ASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND ED REFERENCE MATERIALS MAY BE OBTAINED FROM O.S.H.A. 611 EAST 6TH T, ROOM 303, AUSTIN, TEXAS
- TTENTION OF THE CONTRACTOR IS DIRECTED TO THE CITY OF DRIPPING GS AND HAYS COUNTY STANDARD SPECIFICATIONS AND TO THE STATE LAW, ON'S ANNOTATED TEXAS STATUTES, ARTICLE 1436 (C) AND THE NEED FOR TIVE PRECAUTIONARY MEASURES WHEN OPERATING IN THE VICINITY OF RICAL LINES. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY REMENTS, AND FOR COORDINATION OF ALL WORK WITH THE APPROPRIATE RIC UTILITY COMPANY.
- CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT )-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. LOCATION AND TYPE OF UTILITIES AND UNDERGROUND FACILITIES SHOWN ON PLANS ARE NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE RACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES TO ANY CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO E AND PROTECT ALL EXISTING UTILITIES. IN ADDITIONAL TO NORMAL AUTIONS WHEN EXCAVATING, USE EXTRA CAUTION WHEN EXCAVATING WITHIN EET OF ANY UTILITIES SHOWN ON THE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN LF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THE CT. THIS INCLUDES ALL WATER, WASTEWATER, GAS, ELECTRICAL, TELEPHONE, TELEVISION, AND STREET AND DRAINAGE WORK. ONCE THE CONTRACTOR MES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S INSIBILITY TO NOTIFY THE ENGINEER WITHIN TWENTY-FOUR (24) HOURS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL SPOILS RIAL FROM THE CONSTRUCTION SITE. ALL SPOILS MATERIAL SHALL BE SED OF BY THE CONTRACTOR AT AN APPROVED SPOIL SITE. THE RACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR TTE, SHALL NOTIFY THE WTCPUA INSPECTOR AT LEAST FORTY-EIGHT (48) S PRIOR TO DISPOSAL OF THE MATERIAL. NO SPOILS ARE TO REMAIN NIGHT IN THE FLOODPLAIN.
- LASTING OR BURNING WILL BE ALLOWED. ALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, AT HIS ISE, ALL UTILITIES, PAVEMENT, CURB, FENCES OR ANY OTHER ITEMS GED DURING CONSTRUCTION REGARDLESS OF WHETHER THESE ITEMS ARE VN ON THE CONSTRUCTION PLANS.
- EVER EXISTING UTILITIES, INDICATED OR NOT ON PLANS, PRESENT RUCTIONS TO GRADE AND/OR ALIGNMENT OF PROPOSED PIPE, CONTRACTOR IMMEDIATELY NOTIFY THE ENGINEER WHO WILL DETERMINE IF EXISTING OVEMENTS ARE TO BE RELOCATED OR IF THE GRADE AND/OR ALIGNMENT OF OSED PIPE IS TO BE CHANGED.
- PREVENTION SHALL BE PROVIDED BY THE CONTRACTOR AT HIS OWN ISE. DUST CONTROL SHALL INCLUDE SPRAYING OF WATER ON ALL RBED AREAS, SPOIL PILES, OR HAUL MATERIALS ASSOCIATED WITH THE ECT OR OTHER METHODS APPROVED BY THE WTCPUA.
- NUP UPON COMPLETION AND BEFORE MAKING APPLICATION FOR PTANCE OF THE WORK, THE CONTRACTOR SHALL CLEAN ALL STREETS AND ROUND OCCUPIED BY HIM IN CONNECTION WITH THE WORK OF ALL RUBBISH, SS MATERIALS, EXCESS EXCAVATED MATERIALS, TEMPORARY STRUCTURES AND MENT. ALL PARTS OF THE WORK SHALL BE LEFT IN A NEAT AND ENTABLE CONDITION SATISFACTORY TO THE WTCPUA AND OTHER RNMENTAL BODIES HAVING JURISDICTION PRIOR TO SUBMITTAL OF THE FINAL
- TAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES. COORDINATE PROPERTY OWNERS TO MINIMIZE DISRUPTION OF DELIVERIES, PARKING, AND ACTIVITIES.
- FERING, IF NECESSARY, SHALL BE CONSIDERED INCIDENTAL TO THE WORK SHALL NOT CONSTITUTE A BASIS FOR ADDITIONAL PAYMENT.
- UM DEPTH OF COVER FROM TOP OF PIPE TO FINISHED GRADE FOR ALL LINES SHALL BE FOUR FEET, UNLESS OTHERWISE SHOWN ON THE PLANS. LL LINES TO AVOID HIGH POINTS.
- RETE SHALL BE CLASS 'A' WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH 000 PSI, UNLESS OTHERWISE NOTED. ORCING STEEL SHALL BE ASTM A 615M, GRADE 60 UNLESS OTHERWISE
- ESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE EER WHO PREPARED THEM. IN REVIEWING THESE PLANS. THE WTCPUA MUST ON THE ADEQUACY OF THE DESIGN ENGINEER. APPROVAL OF THESE PLANS E WTCPUA DOES NOT RELEASE THE DESIGN ENGINEER OF THESE

# TRAVIS COUNTY PUA NOTES:

- DTS IN THIS SUBDIVISION RECEIVE POTABLE WATER SERVICE, EITHER DIRECTLY OR VIA WHOLESALE ACT, FROM THE WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY. AS SUCH, THE PROPERTY IS T TO COMPLIANCE WITH THE TERMS SET FORTH IN THE MAY 24, 2000 UNITED STATES FISH AND
- SERVICE MEMORANDUM OF UNDERSTANDING WITH THE LOWER COLORADO RIVER AUTHORITY. S CONTAIN USFWS STREAM BUFFER ZONES AND/OR SENSITIVE FEATURE BUFFER ZONES AS
- ED HEREON THAT MUST REMAIN FREE OF CONSTRUCTION, DEVELOPMENT, OR OTHER ALTERATIONS. IOUS COVER SHALL COMPLY WITH THE WATER QUALITY PLAN APPROVED FOR THIS SUBDIVISION AND
- NOT BE ALTERED. RANT AGREES THAT THE LOTS IN THIS PLAT DOCUMENT ARE SUBJECT TO {DECLARANT TO SELECT JSFWS MEMORANDUM OF UNDERSTANDING WITH THE LOWER COLORADO RIVER AUTHORITY OR THE

# TCEQ CONTRIBUTING ZONE PLAN **GENERAL CONSTRUCTION NOTES:**

- . A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE: - THE NAME OF THE APPROVED PROJECT;
- THE ACTIVITY START DATE; AND
- THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
- ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ON SITE.
- 3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE 4. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- 5. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
- 6. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
- 7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
- 8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
- 9. IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
- 10. THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
- THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING: A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPS) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERMS, SILT FENCES, AND
- DIVERSIONARY STRUCTURES; B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED; C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR

D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN. AUSTIN REGIONAL OFFICE

12100 PARK 35 CIRCLE, BUILDING A AUSTIN, TEXAS 78753-1808 PHONE (512) 339-2929 FAX (512) 339-3795

SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD SAN ANTONIO, TEXAS 78233-4480 PHONE (210) 490-3096 FAX (210) 545–4329

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER NOTES:

- 1. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED ANSI.
- 2. ALL PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST ALSO BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS.
- 3. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.
- 4. WATER TRANSMISSION AND DISTRIBUTION LINES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE.
- 5. THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY AWWA FORMULAS.
- 6. ALL WATER LINES SHALL BE HYDROSTATIC LEAK TESTED IN CONFORMANCE WITH AWWA C600 FOR DUCTILE IRON PIPE AND AWWA C605 FOR PVC PIPE. 7. ALL WATER LINES SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651.

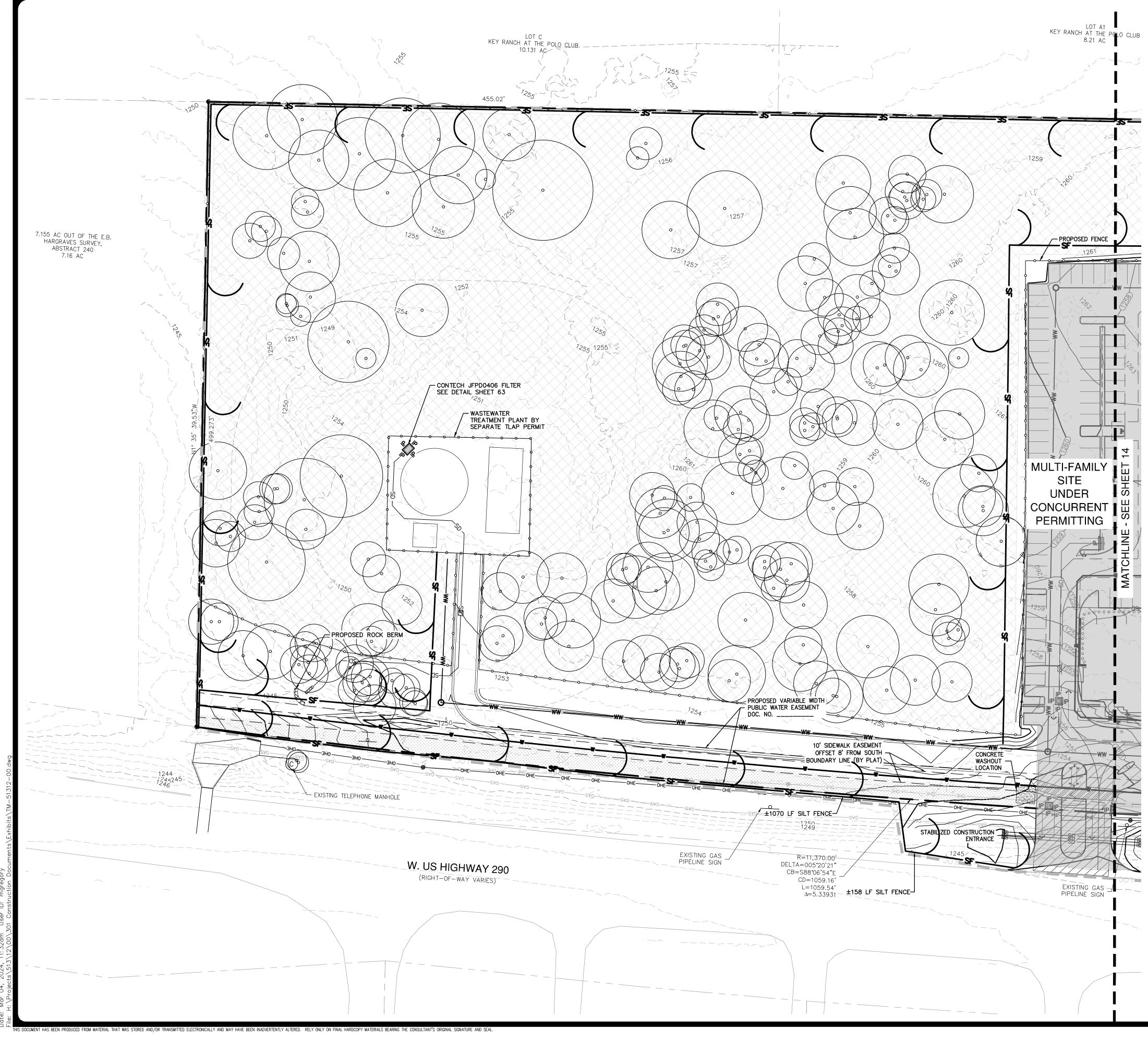
# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER/WASTEWATER LINE SEPARATION NOTES:

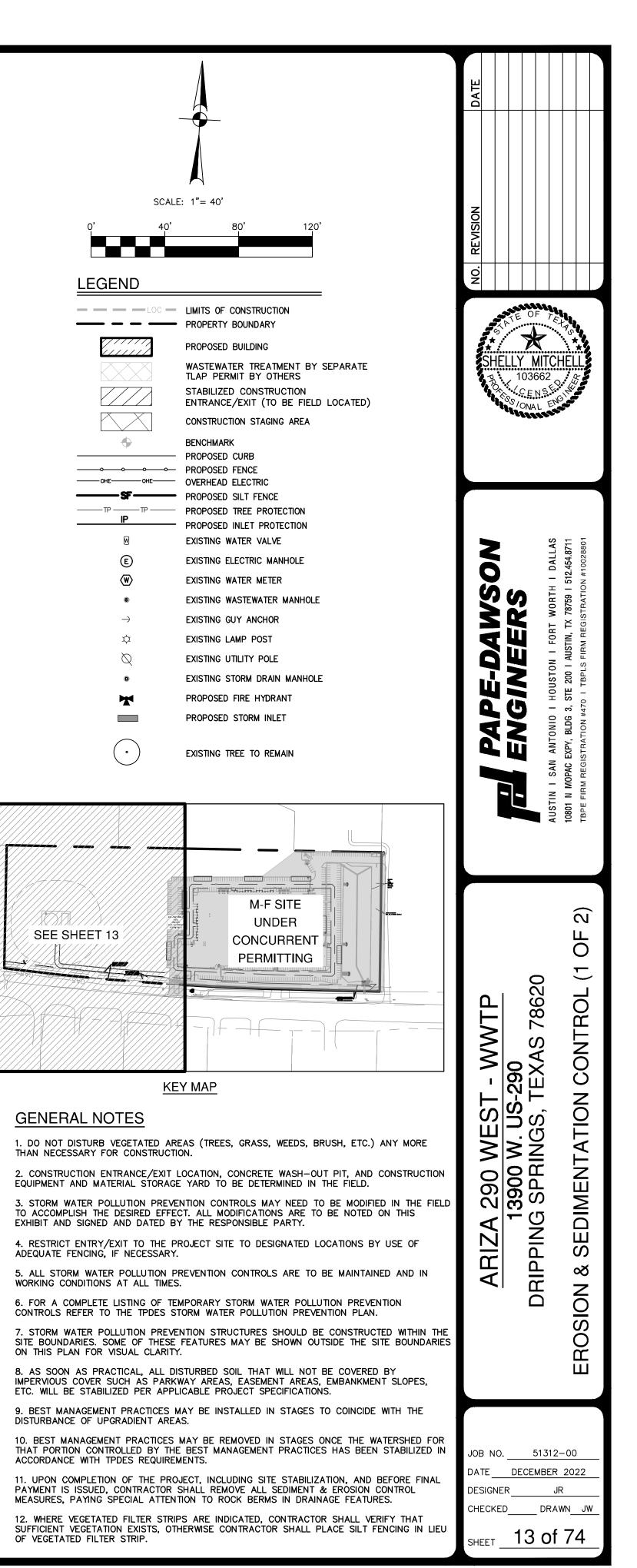
- 1. NEW WATERLINE INSTALLATION PARALLEL LINES: WHEN NEW POTABLE WATER DISTRIBUTION LINES ARE CONSTRUCTED, THEY SHALL BE
- INSTALLED NO CLOSER THAN NINE FEET IN ALL DIRECTIONS TO WASTEWATER COLLECTION FACILITIES. ALL SEPARATION DISTANCES SHALL BE MEASURED FROM THE OUTSIDE SURFACE OF EACH OF THE RESPECTIVE PIECES. 2. NEW WATERLINE INSTALLATION - CROSSING LINES
- WHERE A NEW POTABLE WATERLINE CROSSES AN EXISTING, NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL, ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER THE WASTEWATER MAIN OR LATERAL SUCH THAT THE JOINTS OF THE WATERLINE PIPE ARE EQUIDISTANT AND AT LEAST NINE FEET HORIZONTALLY FROM THE CENTERLINE OF THE WASTEWATER MAIN OR LATERAL. THE POTABLE WATERLINE SHALL BE AT LEAST TWO FEET ABOVE THE WASTEWATER MAIN OR LATERAL. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTEWATER MAIN OR LATERAL. IF THE EXISTING WASTEWATER MAIN OR LATERAL IS DISTURBED OR SHOWS SIGNS OF LEAKING, IT SHALL BE REPLACED FOR AT LEAST NINE FEET IN BOTH DIRECTIONS (18 FEET TOTAL) WITH AT LEAST 150 PSI PRESSURE RATED PIPE.

WHERE A NEW POTABLE WATERLINE CROSSES AN EXISTING, PRESSURE RATED WASTEWATER MAIN OR LATERAL, ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER THE WASTEWATER MAIN OR LATERAL SUCH THAT THE JOINTS OF THE WATERLINE PIPE ARE EQUIDISTANT AND AT LEAST NINE FEET HORIZONTALLY FROM THE CENTERLINE OF THE WASTEWATER MAIN OR LATERAL. THE POTABLE WATERLINE SHALL BE AT LEAST SIX INCHES ABOVE THE WASTEWATER MAIN OR LATERAL. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTEWATER MAIN OR LATERAL. IF THE EXISTING WASTEWATER MAIN OR LATERAL SHOWS SIGNS OF LEAKING, IT SHALL BE REPLACED FOR AT LEAST NINE FEET IN BOTH DIRECTIONS (18 FEET TOTAL) WITH AT LEAST 150 PSI PRESSURE RATED PIPE.

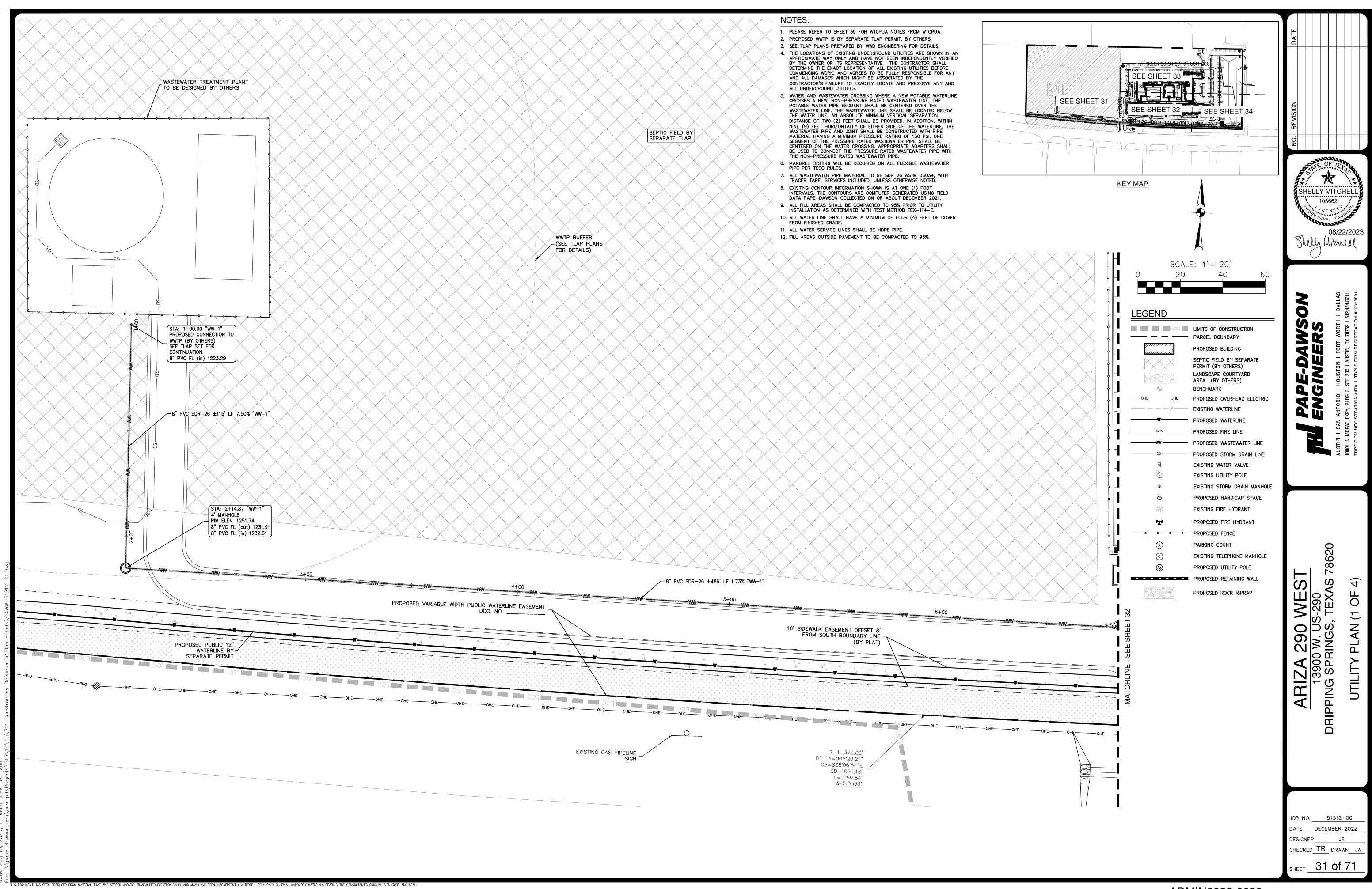
COMMISSION OF ENVIRONMENTAL QUALITY OPTIONAL ENHANCED MEASURES}.

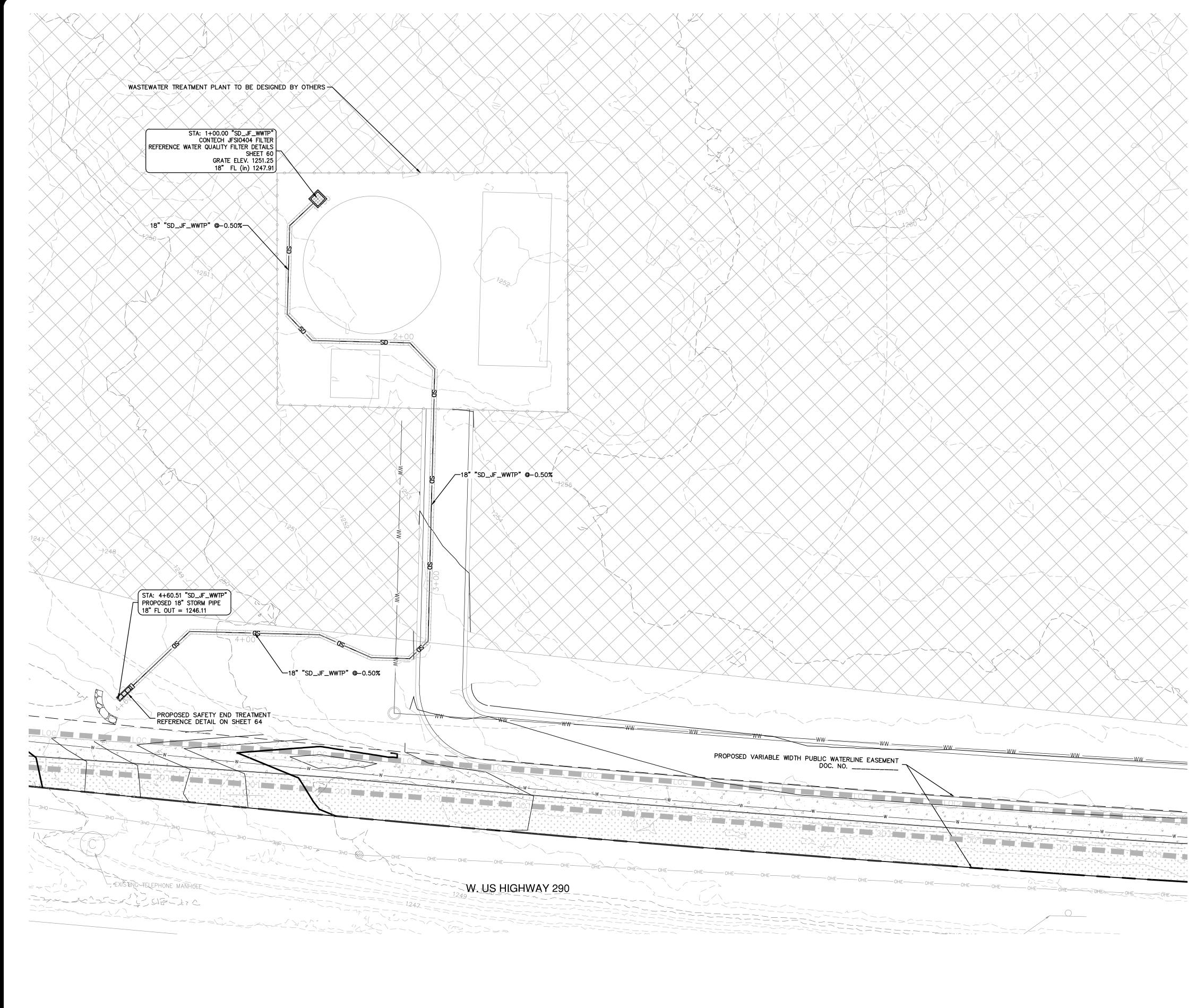






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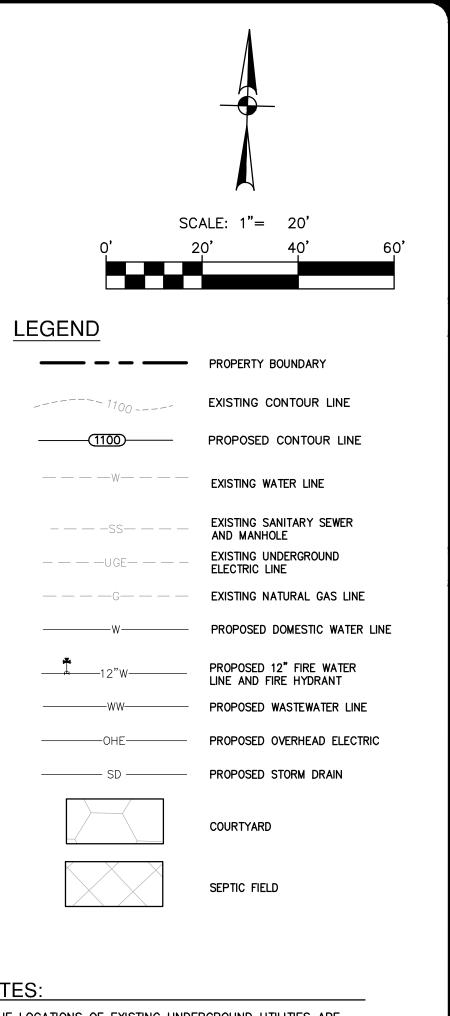




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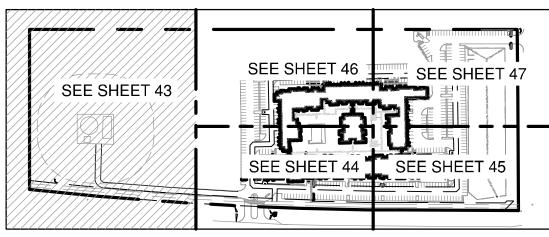
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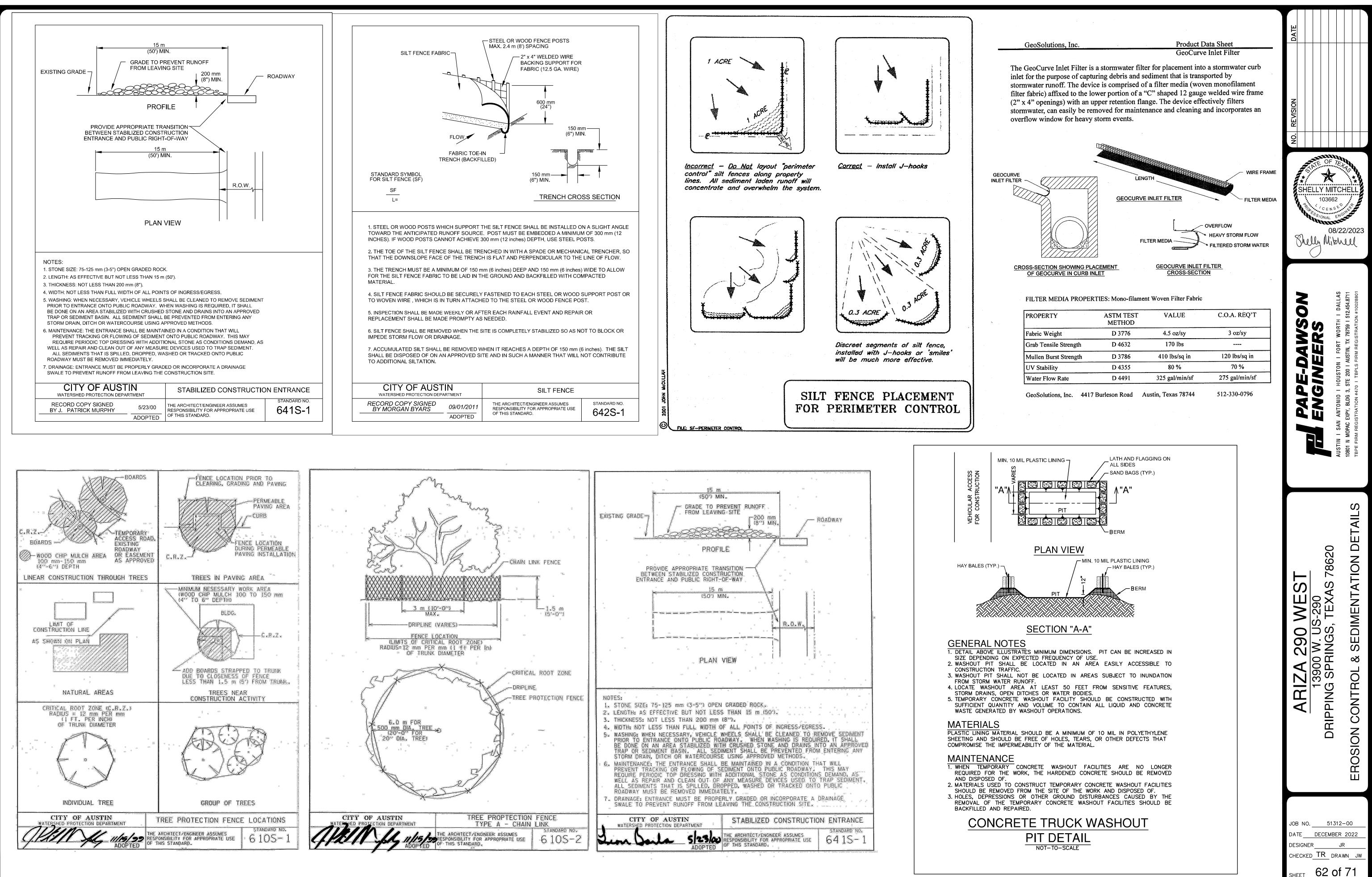
# NOTES:

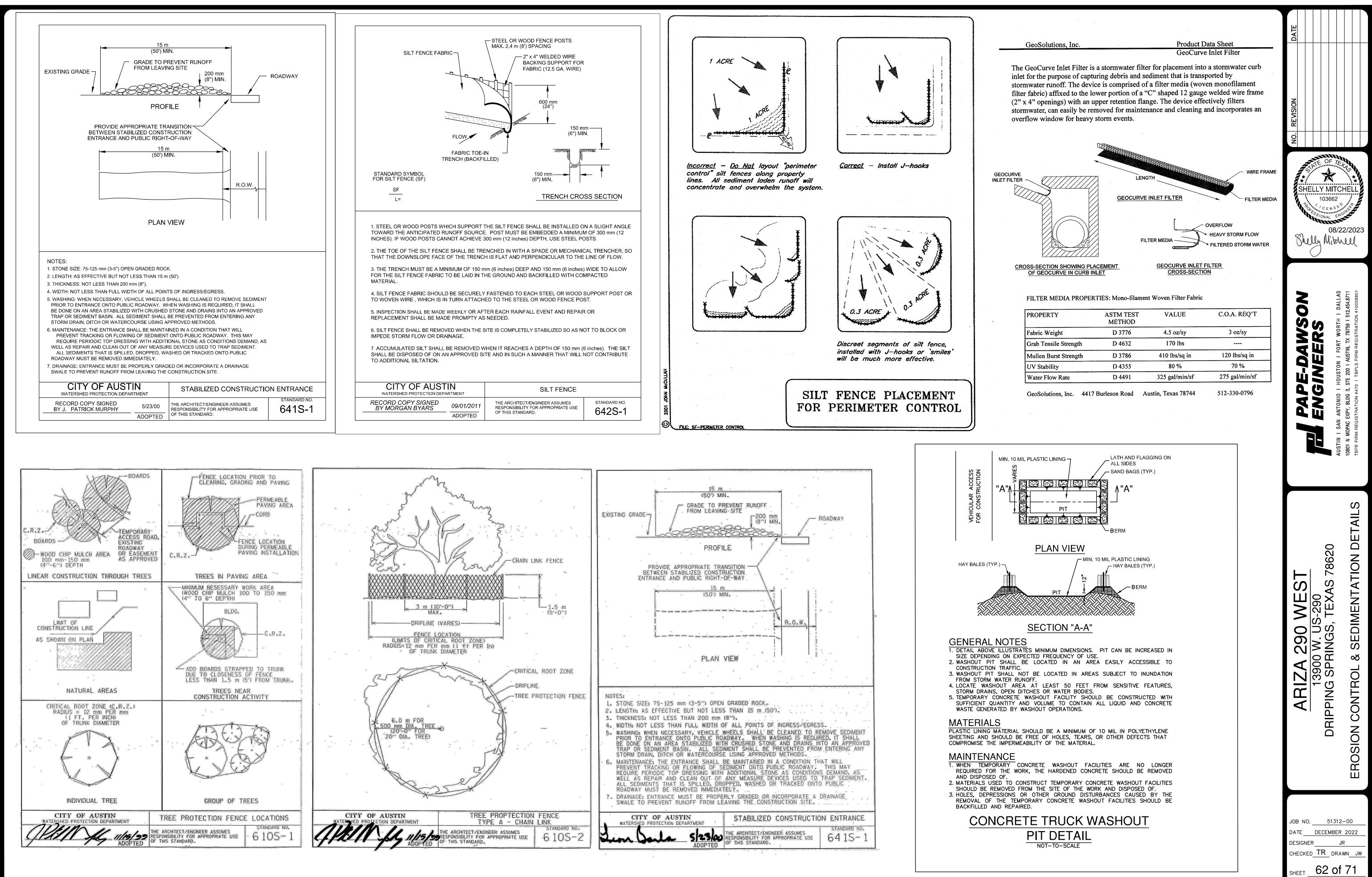
- 1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY UNLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 2. ALL FILL AREAS SHALL BE COMPACTED TO 95% PRIOR TO UTILITY INSTALLATION.
- 3. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE-GROUND UTILITIES AND APPURTENANCES IN DRIVE AREAS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTING, APPROVALS, AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- 5. ALL UTILITIES ARE TO BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
- 6. ALL UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE MEP PLANS. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- 7. FOR ALL UTILITIES ENTERING BUILDINGS SEE MEP PLANS FOR CONTINUATION 5 FT FROM BUILDINGS. 8. PRIVATE STORM SEWER WITH MORE THAN OR EQUAL TO 2
- FEET OF SEPARATION FROM TOP OF PIPE TO SUBGRADE CAN BE HDPE PIPE OR EQUIVALENT. PRIVATE STORM SEWER PIPE WITH LESS THAN 2 FEET FROM TOP OF PIPE TO SUBGRADE, OR EQUAL TO OR GREATER THAN 48" PIPE, SHALL BE HP DUAL WALL OR CLASS 5 CONCRETE PIPE.
- 9. ALL BUILDING STORM CONNECTION LINES ARE TO BE 8" AT 0.75% SLOPE UNLESS OTHERWISE SPECIFIED.



KEY MAP

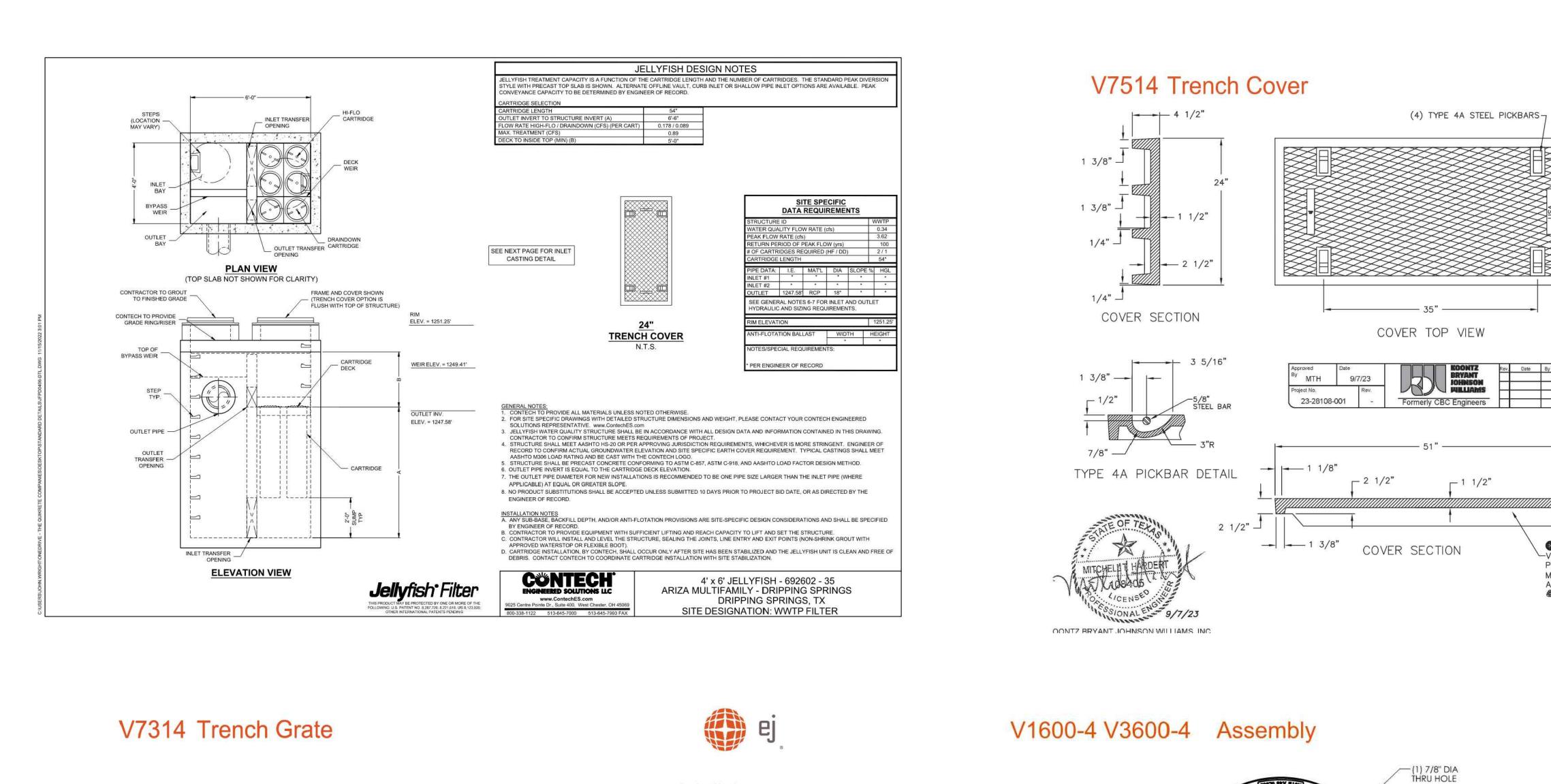
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I PAPE-DAWSON	<b>ENGINEERS</b>		AUSTIN I SAN ANTONIO I HOUSTON I FORT WORTH I DALLAS	10801 N MOPAC EXPY, BLDG 3, STE 200 I AUSTIN, TX 78759 I 512.454.8711	TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028801	
ARIZA 290 WEST	13900 W. US-290	DRIPPING SPRINGS, TEXAS 78620			SI URM URAINAGE PLAN (1 UF 5)	
DATE_ DESIGN CHECK	0 IER EDTF 4;	<b>२_</b> DF	ER JR RAW	20: /N_	22 JV	v





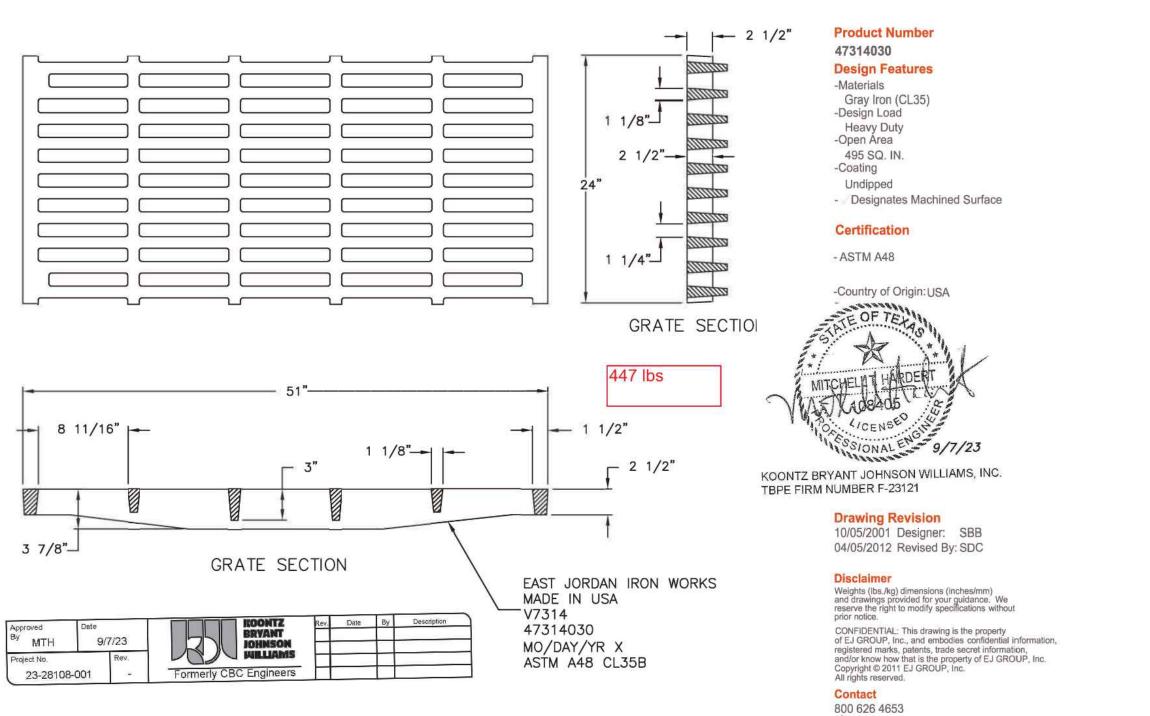
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– Ø31 7/8'' —— F13/8" — Ø32 1/8" — F13/8" 4" 7 − Ø30"− L 1 3/8" - Ø32 1/8"-- Ø38" · SECTION A-A

FRAME IS REVERSIBLE

# ADMIN2022-0099

2/14/2022	Revised By:	DAE
Disclaim	er	
and drawings	g), dimensions (inc provided for your g ht to modify specif	uldance. W
of EJ Group, Ir registered mar and/or know-h	AL: This drawing is no. and embodies i ks, patents, trade ow that is the prop 0.18 EJ Group, Inc.	confidential secret inform

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Drawing Revision 11/29/2021 Designer: MAH

Certification -ASTM A48 -ASTM A536 -Country of Origin: USA **Major Components** 41600410 43600436

-Load Rating Heavy Duty -Open Area 240 Sq.Inches

- / Designates Machined Surface

-Coating Undipped

Gray Iron (CL35B) Grate Ductile Iron (70-50-05)

Product Number 43600436A02 **Design Features** -Materials Frame

ej

**()** 4

-V7514 PROD. NO.

MO/DY/YR X

ASTM A48 CL35B

Drawing Revision 08/19/2009 Designer: SBB 4/18/2018 Revised By: DAE Disclaimer

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

Contact

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**Estimated Weight:** - 650 bs

Gray Iron (CL35B) -Design Load

Heavy Duty

-Open Area n/a

Undlpped

Certification

-Country of Origin: USA

-ASTM A48

-Coating

17 3/8"

- **Product Number** 47514031 **Design Features** -Materials

-VDesignates Machined Surface

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NO.	NO. REVISION	-



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WEST 290 ARIZ

13900 W. US-290	<b>IPPING SPRINGS, TEXAS 78620</b>	QUALITY FILTER DETAILS (2 OF
1390	<b>IPPING SP</b>	R QUALITY

JOB NO	51312-00
DATE	DECEMBER 2022
DESIGNER	JR
CHECKED	TR DRAWN JW
SHEET	63 of 74



- 1/2" FLAT FACE GOTHIC (TYP)