

**EDWARDS AQUIFER
CONTRIBUTION ZONE PLAN**

FOR

JULEP COMMERCIAL PARK-EAST

Prepared for:

Kelly Gray Investments, LLC
6907 N Capital of Texas Highway
Suite 300
Austin, TX 78735

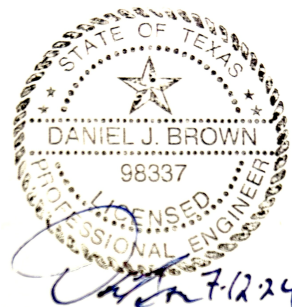
Prepared by:



CIVIL ENGINEERING * DEVELOPMENT CONSULTING * PROJECT MANAGEMENT

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TBPE Firm No. 786

July 2024



Contributing Zone Plan Checklist

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Core Data Form (TCEQ-10400)

Geologic Assessment

Optional Enhanced Measures



Julep Commercial Park East

EDWARDS AQUIFER APPLICATION COVER PAGE (TCEQ-20705)

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with [30 TAC 213](#).

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Julep Commercial Park-EAST				2. Regulated Entity No.:			
3. Customer Name: Kelly Grey Investments, LLC				4. Customer No.: 604360206			
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	Modification		Extension		Exception	
6. Plan Type: (Please circle/check one)	WPAP	<input checked="" type="radio"/> CZP	SCS	UST	AST	EXP	EXT
						Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential		<input checked="" type="radio"/> Non-residential		8. Site (acres):		7.16
9. Application Fee:	\$5,000		10. Permanent BMP(s):		Batch Detention		
11. SCS (Linear Ft.):			12. AST/UST (No. Tanks):				
13. County:	Hays		14. Watershed:		Onion Creek		

Application Distribution

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

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

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

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

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Dan Brown, P.E.

Print Name of Customer/Authorized Agent



7/12/2024

Signature of Customer/Authorized Agent

Date

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

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



Julep Commercial Park East

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: Dan Brown, P.E.

Date: 7/12/2024

Signature of Customer/Agent:



Regulated Entity Name: Julep Commercial Park-East

Project Information

1. County: Hays
2. Stream Basin: Onion Creek
3. Groundwater Conservation District (if applicable): Trinity
4. Customer (Applicant): Kelly Gray Investments, LLC

Contact Person: Aaron Googins

Entity: Kelly Gray Investments, LLC

Mailing Address: 6907 N Capital of Texas Hwy, Suite 300

City, State: Austin, Texas

Zip: 78731

Telephone: 512-809-5118

Fax: N/A

Email Address: aarongoogins@outlook.com

5. Agent/Representative (If any):

Contact Person: Dan Brown, P.E.

Entity: Malone Wheeler, Inc.

Mailing Address: 5113 Southwest Parkway, Suite 260

City, State: Austin, TX 78735

Zip: 78735

Telephone: 512-899-0601

Fax: 512-899-0655

Email Address: danb@malonewheeler.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 Dripping Springs
- ☐ 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.

14174 W US HWY 290 Austin, Texas 78737

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
- ☒ Offsite areas
- ☒ 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: _____
☒ Commercial
☐ Industrial
☐ Other: _____

13. Total project area (size of site): 7.16 Acres

Total disturbed area: 5.99 Acres

14. Estimated projected population: N/A

15. The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
Structures/Rooftops	52,272	÷ 43,560 =	1.20
Parking	13,503	÷ 43,560 =	0.31
Other paved surfaces	73,616	÷ 43,560 =	1.69
Total Impervious Cover	139,392	÷ 43,560 =	3.20

Total Impervious Cover 3.20 ÷ **Total Acreage** 7.16 X 100 = 45 % 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.

☒ 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.

$L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$

21. Pavement Area:

Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

$L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 = \text{_____ \%}$ 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 _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.

☐ 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

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
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

5 of 11

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):

Table 3 - Secondary Containment

<i>Length (L)(Ft.)</i>	<i>Width(W)(Ft.)</i>	<i>Height (H)(Ft.)</i>	<i>L x W x H = (Ft3)</i>	<i>Gallons</i>

Total: _____ Gallons

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. ☒ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 50'.
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): FEMA FIRM Panel Number 48209C0109F dated 09/02/05
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. ☒ 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. ☒ 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.
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. ☒ 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.
☐ N/A
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.
☐ N/A
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.
☐ 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 multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

- ☐ **Attachment 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. ☒ **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. ☒ **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.

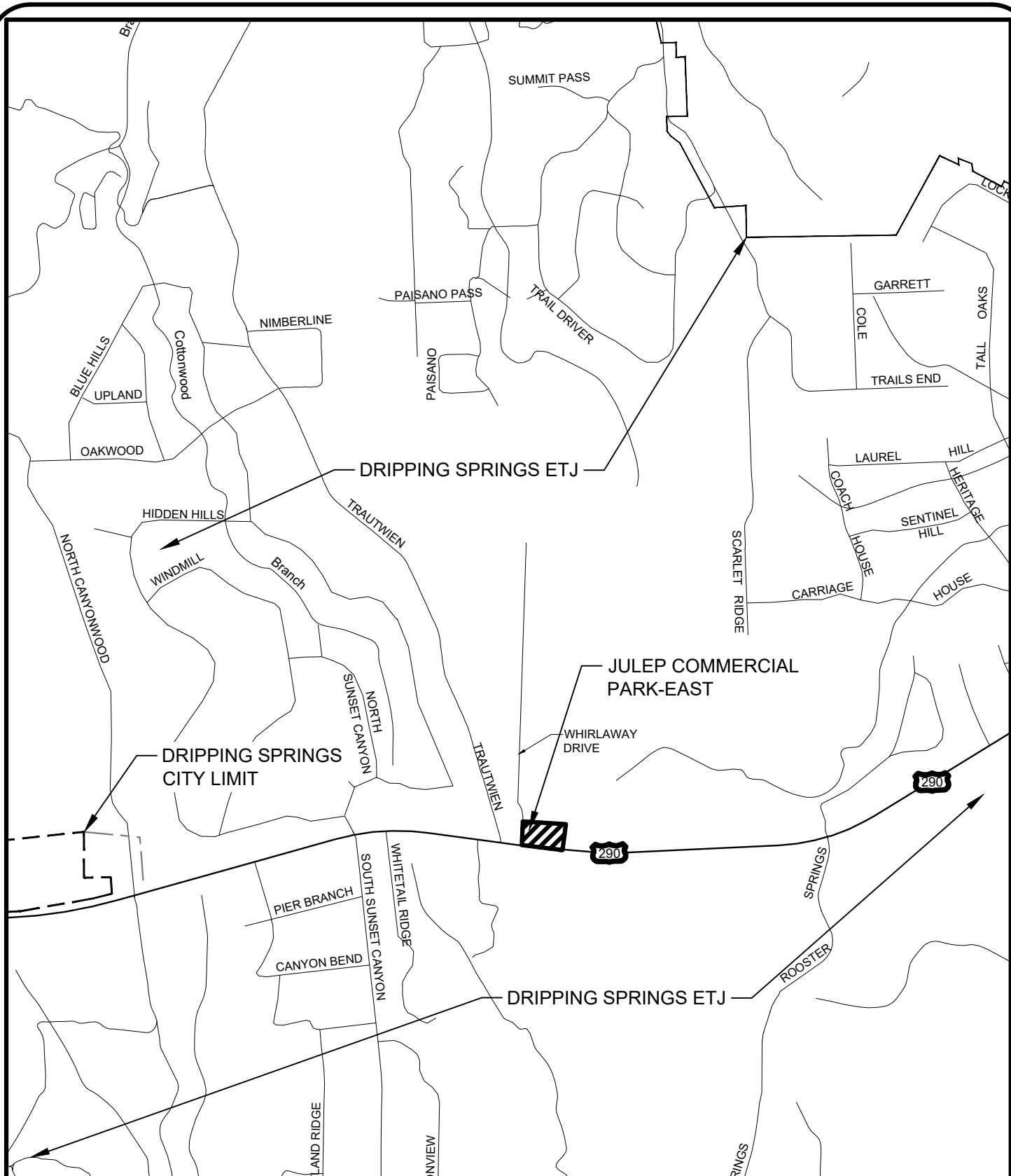
Administrative Information

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.



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT A – ROAD MAP



0 2000'
SCALE: 1" = 2000'

JULEP COMMERCIAL PARK-EAST



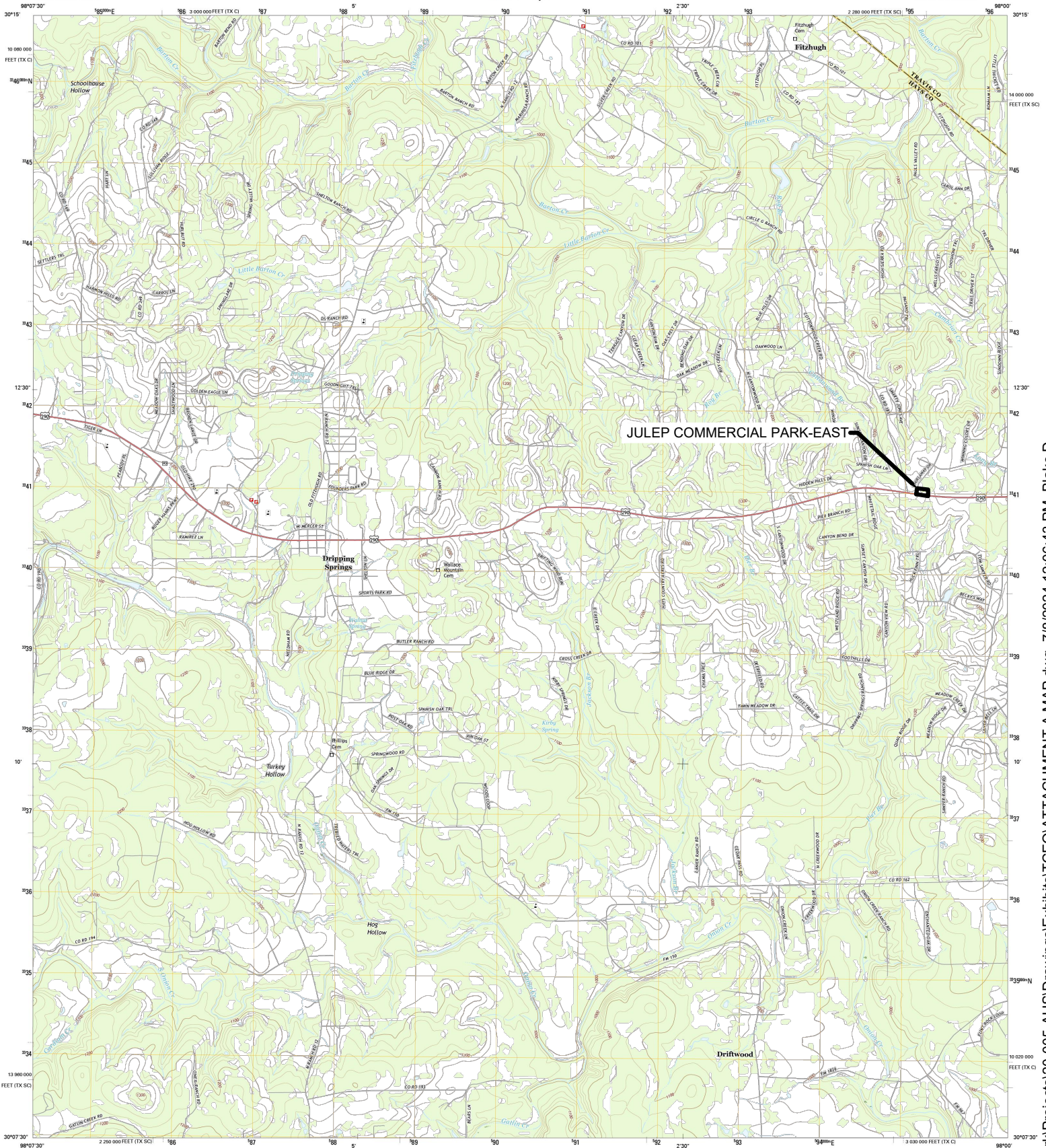
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT B – USGS QUADRANGLE MAP



JULEP COMMERCIAL PARK-EAST

Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
Vertical Geoid System of 1984 (WGS84) Projection and
1000-meter grid Universal Transverse Mercator, Zone 14R
10 000-foot ticks; Texas Coordinate System of 1983 (south
central and central zones)
This map is not a legal document. Boundaries may be
generalized for this map scale. Private land within government
reservations may not be shown. Obtain permission before
entering private lands.
Imagery: U.S. Census Bureau, 2014 - 2015
Roads: U.S. Census Bureau, 2014 - 2015
Hydrography: National Hydrography Dataset, 2014
Contours: National Elevation Dataset, 2000
Boundaries: Multiple sources; see metadata file 1972 - 2015
Wetlands: FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2014 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET
U.S. National Grid
100,000-m Square ID
NO
Grid Zone Designation
14R

SCALE 1:24 000
0 0.5 1 2
KILOMETERS
0 500 1000 2000
METERS
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
FEET

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.4.19



ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Interstate Route
Local Connector
Local Road
400
US Route
State Route

1 Hammetts Crossing
2 Single Hills
3 Bee Cave
4 Hasty
5 Signal Hill
6 Rough Hollow
7 Dripping Springs
8 Mountain City

DRIPPING SPRINGS, TX
2016



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT C – PROJECT NARRATIVE

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT "C"

PROJECT NARRATIVE

JULEP COMMERCIAL PARK-EAST

A previous Contributing Zona Plan with Optional Enhanced Measures was approved for a site that encompasses this project on May 13th, 2022. This previous project was shelved and the approved CZP-OEM for "Julep Commercial Park, Edwards Aquifer Protection Program ID No. 11002911; Regulated Entity No. RN111421087" has since expired.

The Julep Commercial Park-East project is located on 7.16 acres. The site address is 14174 W US HWY 290, Austin, Texas 78737. The project is in the City of Dripping Springs ETJ and Hays County. This project shall consist of mixed-use commercial building with supporting driveways, a batch detention water quality and detention pond, rainwater harvesting, and supporting utilities. This project also includes a deceleration lane in the TxDOT right of way.

There is no existing development on this property.

The site is located within the Contributing Zone of the Edwards Aquifer as defined by the Texas Commission on Environmental Quality ("TCEQ"). The entirety of the site is within the Onion Creek Watershed. No Critical Environmental Features have been identified on the site at this time.

Water service will be provided by West Travis County Public Utility Agency (WTCPUA). The plans incorporate a public WTCPUA water line through the side. An onsite septic facility (OSSF) will be used for the wastewater demands of the site.

This project proposes a total of 3.20 acres of impervious cover. This total includes 0.10 acres of impervious proposed within the TxDOT right of way. The proposed impervious cover within the property will drain to the proposed batch detention pond, but the 0.10 acres of impervious cover will not drain to the pond. This additional 0.10 acres was included in the calculations to determine the Total Suspended Solids (TSS) required for removal by the proposed permanent BMP.

Stormwater runoff from the site shall be managed through a proposed batch detention pond to achieve the pollutant removal efficiency required by the TCEQ. The site is required to treat 80% of the increase of TSS loading to meet the TCEQ requirements. Appendix A to RG-348, Optional Enhanced Measures for the Protection of Water Quality in the Edwards Aquifer (Revised), was used to calculate water quality treatment and design requirements.

Unimproved areas offsite are being routed around developed areas and pond through a grass lined channel to convey stormwater to the outfall from the site.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT D – FACTORS AFFECTING SURFACE
WATER QUALITY**

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT "D"

FACTORS AFFECTING SURFACE WATER QUALITY

JULEP COMMERCIAL PARK-EAST

The factors that could affect surface water quality attributable to the construction of the Site Improvements consist of the following:

1. Erosion due to soil disturbance during clearing and grubbing excavation, embankment, trenching and backfilling utilities, final grading.
2. Use and handling of asphaltic pavement.
3. Use and handling of Portland Cement Concrete.
4. Heavy rains during construction.
5. Storage of equipment on-site.
6. Fueling and maintenance of equipment on-site.
7. Accidental spills of minor amounts of petroleum-based products such as paint, glue and sealants during construction.
8. Storage of construction materials on-site.
9. Waste generation, storage, and disposal.

Temporary Best Management Practices

These factors associated with the construction of the various improvements are kept in check through the Temporary Best Management Practices.

Permanent Best Management Practices

After construction of the various improvements and the site is restored and revegetated the factors that could affect surface water quality consist of the following:

1. Pollutants associated with runoff from paved areas.
2. Pollutants associated with runoff from maintained vegetation.
3. Litter.

For all factors, the permanent Best Management Practices should provide protection.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT E – VOLUME AND CHARACTER OF
STORMWATER**

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT "E"

VOLUME AND CHARACTER OF STORMWATER JULEP COMMERCIAL PARK-EAST

Runoff from this project will consist of stormwater runoff typical to commercial projects which consists of runoff from roofs, driveways, sidewalk, and roadways. This runoff will be conveyed to the on-site water quality and detention pond via a storm sewer system.

The proposed pond reduces the peak flow rate of stormwater runoff to less than the peak flow rate for predeveloped conditions. Rock rip-rap has been provided at the pond outfall and the at the driveway culverts that discharges the drainage channel that routes offsite water around the site to reduce the velocity and reduce the risk of erosion.

See attached construction plans for drainage area maps, peak discharge calculations for various storm events in existing and proposed conditions, and water quality calculations.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT F – SUITABILITY LETTER FROM
AUTHORIZED AGENT**



Hays County Development Services

2171 Yarrington Road, Suite 100, Kyle TX 78640
512-393-2150 main / 512-493-1915 fax

January 19, 2022

To Whom It May Concern:

Re: On Site Sewage Facility Suitability (OSSF) for the Whirlaway Business Park located at the corner of Whirlaway Drive and US Hwy 290 in Austin, Texas 78737.

I have completed my preliminary review of the planning materials submitted in support of the above referenced development in Hays County. I concur with Steve Wenzel, P.E.'s, findings that this development, can be adequately served by individual on-site sewage facilities. The total wastewater generation on this tract 1, 2.953 acres of land is restricted to generate no more than 885 gallons per day. The total wastewater generation on this tract 2, 7.155 acres of land is restricted to generate no more than 2146 gallons per day. Public water will be required for this development.

This review does not authorize the start of any construction and all Hays County development authorizations and subdivision requirements must be obtained before the start of any development.

Please contact me if you have any questions concerning this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Van Gaasbeek", with a stylized flourish at the end.

Eric Van Gaasbeek, R.S., C.F.M.
Chief Environmental Health Specialist
Floodplain Administrator
OS# 0028967



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT G – ALTERNATIVE SECONDARY
CONTAINMENT METHODS**



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT G – Alternative Secondary Containment Methods

Not Applicable to this project.

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. 786 ★ www.malonewheeler.com



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT H – AST CONTAINMENT STRUCTURE
DRAWINGS**



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT H – AST Containment Structure Drawings

Not Applicable to this project.

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Firm Registration No. 786 ★ www.malonewheeler.com



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT I – 20% OR LESS IMPERVIOUS COVER
DECLARATION**



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT I – 20% or Less Impervious Cover Declaration

Not Applicable to this project.

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Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT J – BMPs FOR UPGRADIENT STORMWATER

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT "J"

BMP's FOR UPGRADIENT STORMWATER
JULEP COMMERCIAL PARK-EAST

Unimproved areas offsite are being routed around developed areas and pond through a grass lined channel to convey stormwater to the outfall from the site.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT K – BMPs FOR ON-SITE
STORMWATER**

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT "K"

BMP's FOR ONSITE STORMWATER

JULEP COMMERCIAL PARK-EAST

BMP's for onsite stormwater include the following:

Temporary BMP's

1. Silt Fence
2. Mulch Logs
3. Rock Berms
4. Concrete Washout
5. Stabilized Construction Entrance

Permanent BMP

1. Batch Detention Pond

For locations and designs of temporary and permanent BMP's please refer to the enclosed Construction Plans in Attachment "M".



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT L – BMPs FOR SURFACE STREAMS



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT L – BMPs for Surface Streams

Not applicable to this project.

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. 786 ★ www.malonewheeler.com



Julep Commercial Park East


CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT M – CONSTRUCTION PLANS

CONSTRUCTION PLANS

[Handwritten signature]

5.31.24

DATE _____



SD2022-0001

CITY OF DRIPPING SPRINGS DEVELOPMENT PERMIT #

1. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NO. 48209C0109F DATED SEPTEMBER 2, 2005, NO PORTION OF THE SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN.
2. KELLY GRAY INVESTMENTS, LLC IS THE OWNER/OPERATOR OF THE STORMWATER UTILITIES AND PONDS.
3. WATER PROVIDED BY WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY.
4. WASTEWATER PROVIDED BY OSSF.
5. THIS PROJECT IS LOCATED WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE AND THE ONION CREEK WATERSHED.
6. A WATER QUALITY BMP MAINTENANCE PLAN HAS BEEN PREPARED FOR THIS DEVELOPMENT AND IS ON FILE AT CITY HALL IN SITE DEVELOPMENT CASE # SD2022-0001.
7. A VARIANCE HAS BEEN APPROVED BY THE CITY OF DRIPPING SPRINGS FOR FILL GREATER THAN 6' PROPOSED ON THE SITE. AS A CONDITION OF THIS APPROVAL, THIS PROJECT WILL COMPLY WITH THE CITY OF DRIPPING SPRINGS DARK SKY ORDINANCE AND WALLS SHALL BE CONSTRUCTED WITH NATIVE LIMESTONE OR A LIMESTONE VENER. STRUCTURAL WALL PLANS SHALL BE SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION OF ANY STRUCTURAL WALLS.

JULEP EAST	
IMPERVIOUS COVER WITH RAINWATER HARVESTING CREDIT	
Total Area of Site (sf)	311,712
Allowable Impervious at 35% of Total Area (sf)	109,099
Proposed Building (sf)	50,375
Proposed Other Impervious (sf)	83,747
Total Proposed Impervious (sf)	134,122
Percent Impervious of Site without Rainwater Harvesting Credit (%)	43%
Building Area with 50% Area Reduction for Rainwater Harvesting Credit (sf)	25,188
Total Proposed Impervious with Rainwater Harvesting Credit (sf)	108,935
Percent Impervious of Site with Rainwater Harvesting Credit (%)	35%

REVISION/CORRECTION			
NO.	REVISION DESCRIPTION	APPROVED BY	DATE

A map showing the project location in the Treadwell area. The map includes the following labels and features:

- Geographic Features:** NORTH SUNSET CANYON, WHITE TAIL RIDGE, SOUTH SUNSET CANYON, ER BRANCH, ANYON BEND.
- Infrastructure:** WHIRLAWAY DRIVE, Highway 290 (indicated by a shield with the number 290).
- Project Location:** A hatched rectangular area is labeled "PROJECT LOCATION" with an arrow pointing to it.
- Other Labels:** "TREADWELL" is written vertically along a road.
- Scale:** A scale bar at the bottom indicates distances in feet (0, 100, 200).
- North Arrow:** A north arrow is located in the top right corner, pointing towards the top right of the page.

MALONE★WHEELER
SINCE INC 1995

5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

WTCPUA WATER IMPROVEMENTS CONSTRUCTION SUMMARY		
PIPE SIZE	TYPE	LENGTH (L)
8"	DI (CL350)	1232
6"	DI (CL350)	22

WTCPUA FIRE HYDRANTS
QTY
2

WTCPUA VALVES	
SIZE	QTY
8 INCH	8

- 01 COVER
- 02 NOTES
- 03 EXISTING CONDITIONS
- 04 DEMOLITION PLAN
- 05 EROSION & SEDIMENTATION CONTROL PLAN
- 06 EXISTING DRAINAGE AREA MAP
- 07 PROPOSED DRAINAGE AREA MAP
- 08 SITE PLAN
- 09 TURN LANE PLAN
- 10 WTCPUA OVERALL WATER PLAN
- 11 OVERALL WATER PLAN
- 12 WL-A P&P STA 1+00 TO END
- 13 WL-B P&P STA 1+00 TO END
- 14 STORM PLAN
- 15 GRADING PLAN
- 16 BYPASS DRAINAGE CHANNEL PLAN & PROFILE
- 17 BATCH DETENTION POND PLAN
- 18 BATCH DETENTION POND DETAILS
- 19 PROPOSED RAIN HARVESTING AND IRRIGATION PLAN
- 20 PAVING DETAILS
- 21 STORM DETAILS
- 22 WATER DETAILS
- 23 EROSION CONTROL DETAILS
- 24 TXDOT MBGF DETAILS

3. # OF LUES : 13
4. WTCPUA DOES NOT GUARANTEE FIRE FLOW.
5. A WTCPUA REPRESENTATIVE MUST BE PRESENT AT THE TIME OF CONNECTION TO THE EXISTING SYSTEM.
6. ALL WATER AND WASTEWATER INFRASTRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF AUSTIN WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS AND WITH MATERIALS FROM THE CURRENT APPROVED CITY OF AUSTIN STANDARD PRODUCTS LIST (SPL).
7. LANDSCAPE IRRIGATION WILL BE PROVIDED BY RAIN HARVESTING AND WATER WELL.

WTCPUA PROJECT NUMBER: 290-21-026

WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY GENERAL CONSTRUCTION NOTES

CONTACT INFORMATION

FACILITIES OWNER: (NAME/ADDRESS/PHONE)
WEST TRAVIS COUNTY PUA
13215 BEE CAVE PARKWAY BUILDING 8, SUITE 110
BEE CAVE, TEXAS 78738
512 (263) 0100
JRICHERS@WTCPUA.ORG
LAND OWNER: NAME/ADDRESS/PHONE
OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS: NAME/PHONE
MAINTENANCE: PERSON OR FIRM RESPONSIBLE FOR EROSION/ SEDIMENTATION CONTROL
CONTRACTOR: NAME/ADDRESS/ PHONE
PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION. CONTRACTOR: NAME/ADDRESS/PHONE

SPOILS MANAGEMENT AND DISPOSAL NOTES

- TEMPORARY HOLDING SITES AS NECESSARY TO STOCKPILE EXCAVATED SOILS. EMBEDMENT MATERIAL AND/OR PIPING AND APPURTENANCES MAY BE LOCATED WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THE PLANS.
- NO PERMANENT SPOILS DISPOSAL SHALL BE ALLOWED ON-SITE, UNLESS APPROVED BY THE OWNER AND GOVERNING AUTHORITY.
- ALL SPOILS MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED SPOIL DISPOSAL SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR THE SITE, AND SHALL NOTIFY THE OWNER AND/OR ENGINEER AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF ANY SPOIL MATERIAL.

EROSION /SEDIMENTATION CONTROL NOTES

- USE LATEST CITY OF AUSTIN, CITY OF DRIPPING SPRINGS, CITY OF BEE CAVE, TRAVIS COUNTY, HAYS COUNTY EROSION/SEDIMENTATION CONTROL NOTES, AS APPROPRIATE.

HOURS OF CONSTRUCTION

- NO WORK SHALL BE DONE BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M. NOR ON SUNDAYS OR LEGAL HOLIDAYS WITHOUT THE WRITTEN PERMISSION OF THE WTCPUA IN EACH CASE. EXCEPT SUCH WORK AS MAY BE NECESSARY FOR THE PROPER CARE, MAINTENANCE AND PROTECTION OF THE WORK ALREADY DONE OR IN THE CASE OF AN EMERGENCY.

LIMITS OF CONSTRUCTION

- THE LIMITS OF CONSTRUCTION SHALL BE BOUNDED BY THE RIGHT OF WAY LINE OR PERMANENT TEMPORARY EASEMENT LIMITS SHOWN ON THE PLANS. LIMITS OF CONSTRUCTION MAY BE FURTHER RESTRICTED BY PLACEMENT OF SILT FENCE, TREE PROTECTION FENCING, OR OTHER APPURTENANCES AS SHOWN ON THE PLANS.
- LIMITS OF CONSTRUCTION SHALL BE CLEARLY DELINEATED BY THE CONTRACTOR BY INSTALLING SILT FENCE, ORANGE TENSAR FENCING 4' FOOT ROLL TIED TO 6-FOOT POSTS SET AT 10-FOOT INTERVALS OR OTHER BARRIERS AS APPROVED BY THE ENGINEER. ALL TEMPORARY BARRIERS SHALL BE REMOVED AT THE END OF THE PROJECT.
- ANY AREAS OUTSIDE THE LIMITS OF CONSTRUCTION DISTURBED BY THE CONTRACTOR SHALL IMMEDIATELY BE RESTORED TO PRECONSTRUCTION CONDITION.

SANITARY FACILITIES

- PROVISIONS SHALL BE MADE FOR NECESSARY SANITARY CONVENIENCES FOR THE USE OF LABORERS ON THE WORK. THE FACILITIES MUST BE PROPERLY SECLUDED FROM PUBLIC OBSERVATION AND SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.

PROTECTION OF BORE PITS

- INSTALL BARRIER FENCING (TENSAR ORANGE FENCING OR CHAIN LINK FENCING) TO SURROUND THE BORE PITS. BARRIER FENCING SHALL REMAIN IN PLACE AT ALL TIMES WHILE THE BORE PIT IS OPEN. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY AND SAFETY AT THE BORE PITS

HORIZONTAL CONTROLS

- ALL LINE WORK SHALL BE STAKED PRIOR TO CONSTRUCTION WITH SEALED CUT SHEETS PROVIDED TO THE WTCPUA INSPECTOR PRIOR TO CONSTRUCTION

CONSTRUCTION SEQUENCING (MODIFY TO FIT PROJECT)

- 48 HOURS PRIOR TO BEGINNING ANY WORK, CALL THE ONE-CALL BOARD OF TEXAS AT 811 OR 1-800-545-6005 FOR UTILITY LOCATIONS AND OBTAIN STREET CUT PERMIT FOR ANY WORK WITHIN CITY, COUNTY, AND/or STATE RIGHT-OF-WAY.
- INSTALL TEMPORARY EROSION CONTROLS AND TREE/NATURAL AREA PROTECTION FENCING PRIOR TO PRE-CONSTRUCTION MEETING AND PRIOR TO ANY SITE CLEARING, GRUBBING, EXCAVATION, MATERIAL STOCKPILING, OR OTHER CONSTRUCTION OPERATIONS.
- SCHEDULE AND CONVENIE A PRECONSTRUCTION MEETING INCLUDING BUT NOT LIMITED TO THE OWNER'S REPRESENTATIVE, ENGINEER, WTCPUA REPRESENTATIVE, FIRE DEPARTMENT, CITY, COUNTY, TXDOT REPRESENTATIVE, AND TCEQ REPRESENTATIVE, AS APPLICABLE.
- INSTALL TRAFFIC CONTROL MEASURES.
- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO INITIATING CONSTRUCTION.
- ROUGH OUT WATER QUALITY PONDS AND DIRECT RUNOFF TO PONDS TO ACT AS A SEDIMENT TRAP.
- REMOVE AND STOCKPILE TOPSOIL IN AREAS AS REQUIRED.
- ROUGH OUT ROADS/SITE, AS NECESSARY.
- INSTALL ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE WTCPUA WHEN SWITCHING SERVICE TO THE WTCPUA SYSTEM. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS/FACILITIES TO ENSURE SERVICE IS MAINTAINED DURING SWITCHOVER.
- COMPLETE ALL UNDERGROUND INSTALLATIONS, INCLUDING INSTALLATION OF SLEEVES.
- COMPLETE SUBGRADE.
- COMPLETE 1ST COURSE BASE.
- COMPLETE FINAL COURSE BASE.
- LAY PAVEMENT AND/OR COMPLETE ANY PAVEMENT REPAIR.
- COMPLETE WATER QUALITY PONDS.
- COMPLETE PERMANENT EROSION CONTROL AND SITE RESTORATION.
- REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.
- COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED BY CONSTRUCTION OPERATIONS.

TRAFFIC CONTROL NOTES (INCLUDE IF APPLICABLE)

- PLANS SHALL INDICATE RESPONSIBLE AGENT FOR TRAFFIC CONTROL (ENGINEER OR CONTRACTOR).
- CONTRACTOR SHALL MAINTAIN REASONABLE LOCAL VEHICULAR TRAFFIC THROUGHOUT CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL PROVIDE SIGNS, BARRICADES, FLAGGERS, AND OTHER MEASURES AS REQUIRED TO ALLOW FOR VEHICULAR AND PEDESTRIAN TRAFFIC TO PROCEED SAFELY WITH MINIMUM INCONVENIENCE.
- SIGNS, BARRICADES, FLAGGERS, AND RELATED WORK SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WITH THE REQUIREMENTS OF THE TEXAS DEPARTMENT OF TRANSPORTATION.
- FOR ANY ACTIVITY WITHIN TXDOT RIGHT-OF-WAY, PROJECT MUST HAVE A TXDOT PERMIT. A COPY OF THE TXDOT PERMIT SHALL BE PROVIDED TO THE WTCPUA PRIOR TO CONSTRUCTION.

SWPPP NOTES

THIS PROJECT IS SUBJECT TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S (TCEQ) TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT TXR150000 FOR CONSTRUCTION ACTIVITIES. THE GENERAL PERMIT REQUIRES THE PREPARATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WHICH HAS BEEN PROVIDED BY THE OWNER FOR USE BY THE CONTRACTOR. THE OWNER SHALL PROVIDE THE OWNER'S NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) TO THE TCEQ. THE CONTRACTOR'S RESPONSIBILITIES ARE AS FOLLOWS:

- MAINTAIN A COPY OF THE SWPPP AND A SET OF CONSTRUCTION PLANS WITH THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AT THE WORK SITE AT ALL TIMES.
- FILE A NOTICE OF INTENT (NOI) AND APPLICABLE PAYMENT TO THE TCEQ AT LEAST 2 DAYS PRIOR TO SITE DISTURBANCE.
- POST A COPY OF THE OWNER'S AND CONTRACTOR'S NOI FORMS AT THE WORK SITE.
- SIGN THE CERTIFICATION AND OBTAIN A SIGNED CERTIFICATION STATEMENT FROM ALL SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL MEASURES WHICH INDICATES THAT THE CONTRACTOR AND SUBCONTRACTOR UNDERSTANDS THE PERMIT REQUIREMENTS (FORMS ARE IN THE SWPPP).
- FOLLOW AND COMPLY WITH ALL ASPECTS OF THE TPDES GENERAL PERMIT NO. TXR150000. THIS INCLUDES BUT IS NOT LIMITED TO FIELD INSPECTIONS AND REPORT, MAINTAINING AND REPAIRING EROSION CONTROLS AND UPDATING EROSION CONTROLS AND UPDATING EROSION CONTROL PLAN SHEETS BASED ON FIELD CHANGES AND MODIFICATIONS.
- FILE A COPY OF THE CONTRACTOR'S NOTICE OF TERMINATION (NOT) WITH THE TCEQ ONCE THE WORK IS COMPLETED IN ACCORDANCE WITH THE TPDES GENERAL PERMIT NO. TXR150000 AND HAS BEEN ACCEPTED BY THE OWNER.

WTCPUA WATER & WASTEWATER GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATE STATUTES AND U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (O.S.H.A.), COPIES OF O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE OBTAINED FROM O.S.H.A. AUSTIN AREA OFFICE - LA COSTA GREEN BLDG 1033, LA POSADA DR. SUITE 375, AUSTIN, TEXAS 78738-3832, 512-374-0271.
- THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND TO THE STATE LAW, (VERNON'S ANNOTATED TEXAS STATUTES, ARTICLE 1436 ©) AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES WHEN OPERATING IN THE VICINITY OF ELECTRICAL LINES. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY REQUIREMENTS, AND FOR COORDINATION OF ALL WORK WITH THE APPROPRIATE ELECTRIC UTILITY COMPANY.
- THE CONTRACTOR SHALL CONTACT THE ONE-CALL BOARD OF TEXAS AT 811 OR 1-800-545-6005 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. THE LOCATION AND TYPE OF UTILITIES AND UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. IN ADDITIONAL TO NORMAL PRECAUTIONS WHEN EXCAVATING, USE EXTRA CAUTION WHEN EXCAVATING WITHIN 25 FEET OF ANY UTILITIES SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN HIMSELF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THE PROJECT. THIS INCLUDES ALL WATER, WASTEWATER, GAS, ELECTRICAL, TELEPHONE, CABLE TELEVISION, AND STREET AND DRAINAGE WORK. ONCE THE CONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AND WTCPUA INSPECTOR WITHIN TWENTY-FOUR (24) HOURS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL SPOIL MATERIAL FROM THE CONSTRUCTION SITE. ALL SPOILS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED SPOIL SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR THE SITE. THE CONTRACTOR SHALL NOTIFY THE WTCPUA INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF THE MATERIAL. NO SPOILS ARE TO REMAIN OVERNIGHT IN THE FLOODPLAIN.
- NO BLASTING OR BURNING WILL BE ALLOWED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, AT HIS EXPENSE, ALL UTILITIES, PAVEMENT, CURB, FENCES OR ANY OTHER ITEMS DAMAGED DURING CONSTRUCTION REGARDLESS OF WHETHER THESE ITEMS ARE SHOWN ON THE CONSTRUCTION PLANS.

- WHENEVER EXISTING UTILITIES, INDICATED OR NOT ON PLANS, PRESENT OBSTRUCTIONS TO GRADE AND/OR ALIGNMENT OF PROPOSED PIPE, CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER WHO WILL DETERMINE IF EXISTING IMPROVEMENTS ARE TO BE RELOCATED OR IF THE GRADE AND/OR ALIGNMENT OF PROPOSED PIPE IS TO BE CHANGED.
- DUST PREVENTION SHALL BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE. DUST CONTROL SHALL INCLUDE SPRAYING OF WATER ON ALL DISTURBED AREAS, SPOIL PILES, OR HAUL MATERIALS ASSOCIATED WITH THE PROJECT OR OTHER METHODS APPROVED BY THE WTCPUA.
- CLEANUP - UPON COMPLETION AND BEFORE MAKING APPLICATION FOR ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL CLEAN ALL STREETS AND ALL GROUND OCCUPIED BY HIM IN CONNECTION WITH THE WORK OF ALL RUBBISH, EXCESS MATERIALS, EXCESS EROSION PROTECTION MATERIAL, ALL TEMPORARY STRUCTURES, AND ALL EXCESS MATERIALS. ALL MATERIALS SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION SATISFACTORY TO THE WTCPUA AND OTHER GOVERNMENTAL BODIES HAVING JURISDICTION PRIOR TO SUBMITTAL OF THE FINAL PAYMENT.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO MINIMIZE DISRUPTION OF DELIVERIES, PARKING, AND OTHER ACTIVITIES.
- DEWATERING, IF NECESSARY, SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT CONSTITUTE A BASIS FOR ADDITIONAL PAYMENT.
- THE MINIMUM DEPTH OF COVER FROM TOP OF PIPE TO FINISHED GRADE FOR ALL WATER LINES SHALL BE FOUR FEET. INSTALL LINES TO AVOID HIGH POINTS.
- CONCRETE SHALL BE CLASS "A" WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI, UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE ASTM A 615M, GRADE 60 UNLESS OTHERWISE NOTED.
- ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE WTCPUA MUST RELY ON THE ADEQUACY OF THE DESIGN ENGINEER. APPROVAL OF THESE PLANS BY THE WTCPUA DOES NOT RELEASE THE DESIGN ENGINEER OF THESE RESPONSIBILITIES.

WEST TRAVIS COUNTY PUA WATER AND WASTEWATER UTILITY NOTES

- 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 AND 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.
- THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND STANDARD DETAILS CURRENT AT THE TIME OF CONSTRUCTION SHALL GOVERN MATERIALS AND METHODS USED TO PERFORM AND INSPECT CONSTRUCTION DETAILS AND STANDARD DETAILS ARE AVAILABLE AT [HTTPS://LIBRARY.MUNIOCEO.COM/TAUXTAUTOCODES/](https://library.munioceo.com/tauxtautocodes/)
- CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS, INCLUDING BUT NOT LIMITED TO STREET/DRIVEWAY CUT AND UTILITY CUT PERMITS FROM THE APPROPRIATE GOVERNMENTAL AGENCY BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
- THE WTCPUA SHALL BE CONTACTED AT (512) 263-0100 AT LEAST 48 HOURS BEFORE CONNECTING TO THEIR EXISTING WATER AND/OR WASTEWATER FACILITIES.
- THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 811 OR 1-800-545-6005 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.
- 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 WASTEWATER SERVICE.
- WHERE WATER LINES AND SEWER LINE ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES), THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC §217.530(P)PE DESIGN AND 30 TAC §290.44(E) (WATER DISTRIBUTION). ANY DEVIATION THESE STANDARDS SHALL REQUIRE A VARIANCE APPROVED BY TCEQ BEFORE SUBMITTING PIPING ASSOCIATION TO THE WTCPUA.
- THE CITY OF AUSTIN SPECIFICATION ITEM 6985 WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE. CONTRACT DOCUMENTS, WHICH INCLUDE A TRENCH SAFETY PLAN SIGNED AND SEALED BY A TEXAS PROFESSIONAL ENGINEER AND A PAY ITEM FOR TRENCH SAFETY MEASURES, IN COMPLIANCE WITH OSHA, STATE, COUNTY, AND CITY REQUIREMENTS BEFORE BEGINNING WORK ON THE PROJECT.
- 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 AUSTIN STANDARD SPECIFICATION ITEM 1864.4.
- CONNECTIONS TO EXISTING WTCPUA WATER LINES SHALL BE MADE BY CUT-IN TEES IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(24). ISOLATION VALVES SHALL BE INSTALLED ON THE ENDS OF THE CUT-IN TEES, AS NECESSARY. A SHUT-OUT VALVE PLAN SHALL BE PROVIDED SHOWING THE LOCATION OF EXISTING DATE VALVES IN THE VICINITY OF THE CONNECTION. THE SHUT-OUT PLAN SHALL IDENTIFY ALL AFFECTED PROPERTY OWNERS. CONTRACTOR SHALL PERFORM ALL WORK AND SHALL FURNISH ALL MATERIALS, INCLUDING DRAINING AND CUTTING INTO EXISTING PIPING TO CONNECTING A NEW PIPELINE OR OTHER EXISTING PIPING, FORMING AN ADDITION TO THE PORTABLE WATER TRANSMISSION AND DISTRIBUTION NETWORK AND PERFORMING NECESSARY SHUTOFFS. CONTRACTOR SHALL MAINTAIN ALL SUCH CONNECTIONS IN ADVANCE AND SUCH CONNECTIONS SHALL BE MADE PRIOR TO THE WORK 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. PRESSURE TAPS MAY BE APPROVED ON A CASE-BY-CASE BASIS. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED. WHEN APPROVED, ANY 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 CORRECT POSITION PRIOR TO BLOCKING. BLOCKING BEHIND AND UNDER THE TAP SHALL HAVE A MINIMUM OF 24 HOURS CURING TIME BEFORE THE VALVE CAN BE REOPENED FOR SERVICE FROM THAT TAP. THE CONTRACTOR SHALL NOTIFY THE WTCPUA INSPECTOR A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE FOR THE WTCPUA TO NOTIFY THE AFFECTED CUSTOMERS. THE WTCPUA SHALL BE PRESENT WHILE ALL WORK IS PERFORMED TO MAKE THE CONNECTION.
- THRUST RESTRAINT SHALL BE BY METAL THRUST RESTRAINTS IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(22).
- FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY OF STANDARD SPECIFICATION ITEM 51L5.3.E AND SHALL BE APPROVED FIRE DEPARTMENT OR 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 BAG SHALL BE REMOVED WHEN THE MAINS ARE ACCEPTED AND PLACED IN SERVICE. FIRE HYDRANTS THAT ARE TO BE USED AS DRAIN HYDRANTS SHALL BE PAINTED SILVER W/BLUE CAPS PRIOR TO ACCEPTANCE. WHERE STORZ ADAPTORS ARE REQUIRED (HAYS COUNTY), FIRE HYDRANTS SHALL BE MANUFACTURED WITH INTEGRAL STORZ ADAPTORS.
- WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(29) AND/OR TCEQ RULES.
- TEST PRESSURE FOR 24HOUR TEST SHALL BE AT 175 PSI AT THE LOWEST POINT IN THE LINE.

NOTE: PRIOR TO PRESSURE TESTING, CONTRACTOR SHALL VERIFY THAT THRUST BLOCKING AND/OR THRUST RESTRAINT BACK TO AND INCLUDING THE VALVE IS PERFORMED. WHEN THE PRESSURE TEST SHALL BE COMPLETED, 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 EXISTING WATERLINE.

- 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.
- CONTRACTOR SHALL SUBMIT A DISINFECTED 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.
- DATE VALVES SHALL BE RESILIENT SEATED GATE VALVES CONFORMING TO AWWA C509, WITH A MINIMUM RATED WORKING PRESSURE OF 200 PSIG.
- FORCE MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(27) AND/OR TCEQ RULES.
- GRAVITY SANITARY SEWER MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(28) AND/OR TCEQ RULES. IN ADDITION, ALL CIVILITY SANITARY SEWER MAINS SHALL BE TESTED AT AT LEAST 150 PSI. TELEVIEWED PRIOR TO PRE-CONSTRUCTION BY WTCPUA. EXISTING FILES (VIA CD-ROM) CLEARLY SHOWING TELEVIEWED RECORDING SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOLLOWING INSPECTION.
- 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 POINT SUCH THAT IT IS ACCESSIBLE FROM THE VALVE BOX.
- LOCATOR FINDER WIRE - ALL NON-METALLIC WASTEWATER LINES SHALL HAVE A FINDER WIRE LOCATED ABOVE THE PIPE. THE WIRE SHALL BE POLY-INSULATED NO. 10 SOLID COPPER AND WILL TERMINATE AT READILY ACCESSIBLE LOCATIONS THROUGHOUT THE COLLECTION SYSTEM.
- ALL VALVE RISERS SHALL HAVE A 14" SQUARE CONCRETE BOX POURED AROUND THEM AT FINISHED GRADE.
- ALL MANHOLES SHALL BE LINED WITH A CORROSION RESISTANT LINING APPROVED BY THE ENGINEER.
- 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 PROVIDED ON EVERY THIRD MANHOLE.
- THE DOWNSTREAM END OF ANY FORCE MAIN SHALL BE TERMINATED IN A SANITARY SEWER MANHOLE IN A MANNER TO MINIMIZE TURBULENCE.
- CONTRACTOR SHALL HAVE NECESSARY EROSION AND SEDIMENTATION CONTROLS IN PLACE PRIOR TO COMMENCING WATER/WASTEWATER FACILITY CONSTRUCTION.
- RECORD DRAWINGS, AS STIPULATED BY THE WTCPUA, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR VERIFICATION AND FURNISHED TO THE WTCPUA UPON COMPLETION OF THE PROJECT.
- THE WTCPUA 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.
- 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 CITY OF AUSTIN.
- WHERE EXISTING WATER AND/OR WASTEWATER INFRASTRUCTURE IS TO BE ABANDONED, THE ENGINEER SHALL SUBMIT AN ABANDONMENT PLAN FOR APPROVAL BY THE WTCPUA.
- WATER SERVICES SHALL BE INSTALLED USING HOPE PIPE. COPPER IS NOT ALLOWED.
- FOR ANY STORM SEWER LINE CROSSING A WATER OR WASTEWATER LINE CLOSER THAN 18"6", THE STORM SEWER PIPE SHALL BE LAID SUCH THAT NO STORM SEWER JOINTS WILL BE OVER THE WATER PIPE CROSSING.

OTHER NOTES - ENGINEER IS RESPONSIBLE FOR INCLUDING ALL APPLICABLE NOTES, INCLUDING BUT NOT LIMITED TO COUNTY, CITY, TXDOT, STATE, FIRE DEPARTMENT, TCEQ, TXDOT, ORGANIZED SEWAGE COLLECTION SYSTEM NOTES, GENERAL CONSTRUCTION NOTES). ENGINEER IS RESPONSIBLE FOR ENSURING THE CURRENT ADOPTED VERSION OF ALL NOTES IS INCLUDED IN THE CONSTRUCTION PLANS.

TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

(REVISED FEBRUARY 2019 OR LATEST VERSION)

- THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS TO TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D, WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT SHALL BE APPLIED. AT A MINIMUM, CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS MEET TCEQ'S RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS.
- ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/ISO INTERNATIONAL STANDARD 91 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI (§290.44(A)(1)).
- PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NSF INTERNATIONAL SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 20 OR LESS (§290.44(A)(2)).
- NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY (§290.44(A)(3)).
- ALL WATER LINE CROSSINGS OF WASTEWATER MAINS SHALL BE PERPENDICULAR (§290.44(E)(4)(B)).
- WATER TRANSMISSION AND DISTRIBUTION LINES SHALL 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 THE FROST LINE.
- THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING FIXTURES, AND FIXTURES IS 0.25 PERCENT (§290.44(B)).
- THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES WITH VENT OPENINGS TO THE ATMOSPHERE COVERED WITH 16-MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT (§290.44(D)(1)).
- THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION (§290.44(F)(1)).
- WHEN WATERLINES ARE LAID UNDER ANY FLOWING OR INTERMITTENT STREAM OR SEMI-PERMANENT BODY OF WATER THE WATERLINE SHALL BE INSTALLED IN A SEPARATE WATERTIGHT PIPE ENCASEMENT. VALVES MUST BE PROVIDED ON EACH SIDE OF THE CROSSING WITH FACILITIES TO ALLOW THE UNDERWATER PORTION OF THE SYSTEM TO BE ISOLATED AND TESTED (§290.44(F)(2)).
- PURSUANT TO 30 TAC §290.44(A)(5), THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-606 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE:

$$Q = \frac{LD\sqrt{P}}{148,000}$$

WHERE:
 - Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
 - L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
 - D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
 - P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).
- THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-606 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE:

$$L = \frac{SD\sqrt{P}}{148,000}$$

WHERE:
 - L = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
 - S = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
 - D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
 - P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST §290.44(E)(1)-(4).
- THE SEPARATION DISTANCE FROM A POTABLE WATERLINE TO A WASTEWATER MAIN OR LATERAL, MANHOLE OR CLEANOUT SHALL BE A MINIMUM OF NINE FEET. WHERE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEAR CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEALANT (§290.44(E)(6)).
- FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER LINE, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION (§290.44(E)(6)).
- SUCTION MAINS TO PUMPING EQUIPMENT SHALL NOT CROSS WASTEWATER MAINS, WASTEWATER LATERALS, OR WASTEWATER SERVICE LINES. RAW WATER SUPPLY LINES SHALL NOT BE INSTALLED WITHIN FIVE FEET OF ANY TILE OR CONCRETE WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE (§290.44(E)(7)).
- WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAINFIELDS (§290.44(E)(8)).
- THE CONTRACTOR SHALL DISINFECT THE NEW WATERLINES IN ACCORDANCE WITH AWWA STANDARD C-651-14 OR MOST RECENT, THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATERLINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER (§290.44(F)(3)).
- DE-CHLORINATION OF DISINFECTING WATER SHALL BE IN STRICT ACCORDANCE WITH CURRENT AWWA STANDARD C-655-09 OR MOST RECENT.

STREET AND DRAINAGE NOTES:

- CONTRACTOR SHALL PROVIDE QUALITY TESTING FOR ALL INFRASTRUCTURES TO BE ACCEPTED AND MAINTAINED BY HAYS COUNTY AFTER COMPLETION. THE CONTRACTOR SHALL NOTIFY HAYS COUNTY NO LESS THAN 48 HOURS PRIOR TO ANY TESTING.
- BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 6" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION THE REMAINING 4" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS, ROCK, LARGER THAN 1" AND SUITABLE FOR SUSTAINING PLANT LIFE.
- STREET RIGHT-OF-WAY SHALL BE GRADED AT A MINIMUM SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED.
- BARRICADES BUILT TO THE CITY OF DRIPPING SPRINGS STANDARDS SHALL BE ERECTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
- ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE MINIMUM CLASS III.
- THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISIONS OF THE CONSTRUCTION PLANS.
- WHENEVER SOIL INVESTIGATION OR EXCAVATION SHOWS MORE THAN 2 FEET OF EXPANSIVE SUBGRADE, WITH P.I. GREATER THAN 35, THE GEOTECHNICAL ENGINEER OF RECORD SHALL BE CONSULTED FOR ALTERNATIVE PAVEMENT DESIGN MEASURES.
- AT INTERSECTIONS WHICH HAVE VALLEY DRAINAGE, THE CROWNS OF THE INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40 FEET FROM INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.
- A CURB LAYDOWN IS REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS THE CURB.
- INSTALLATION OF EXPANSION JOINTS AT 40' INTERVALS IS OPTIONAL FOR MACHINE LAID CURB EXCEPT IN SUCH CONDITIONS BELOW:
 - HIGH PLASTICITY SUBGRADE
 - WHENEVER THE CURB ENDS ADJUTS CONCRETE STRUCTURE
 - EXTRUSION IS SUSPENDED LONG ENOUGH TO PRODUCE COLD JOINT
- WHEN USING LINE FOR STABILIZATION OF THE SUBGRADE, IT SHALL BE PLACED IN SLURRY OR PELLET FORM. NO DRY LINE PLACEMENT IS PERMITTED.

HAYS COUNTY CONSTRUCTION NOTES:

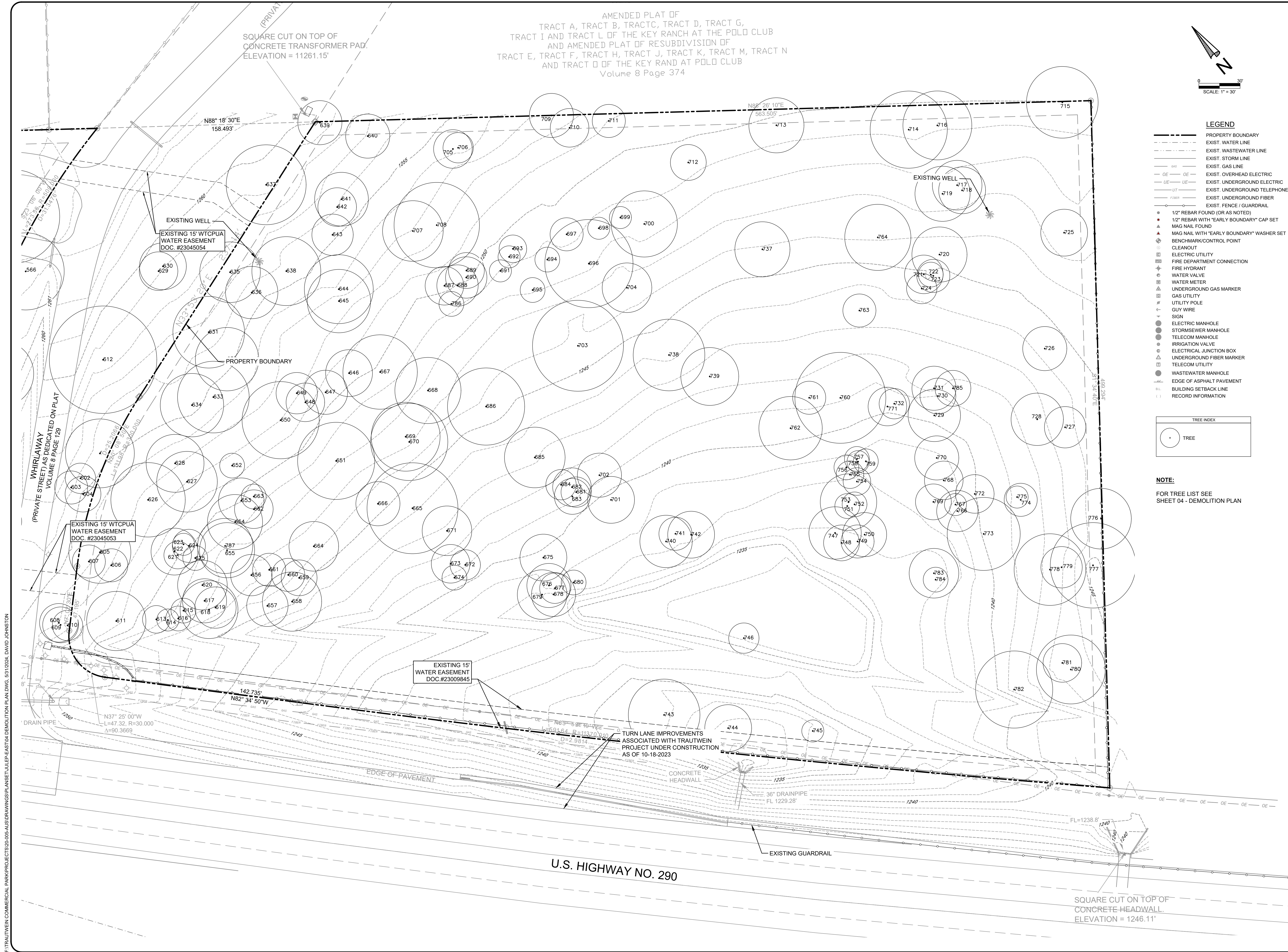
- SEVENTY-TWO (72) HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH ALL PERTINENT PARTIES.
- ALL ROADWAY AND DRAINAGE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HAYS COUNTY SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS PRIOR TO BEGINNING ANY ON-SITE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE NECESSARY INSPECTIONS FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT. ALL REPAIRS TO IMPROVEMENTS CAUSED BY CONTRACTOR'S FAILURE TO INSTALL IMPROVEMENTS IN ACCORDANCE WITH HAYS COUNTY SPECIFICATIONS AND THESE CONSTRUCTION PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. HAYS COUNTY ROAD AND BRIDGE DEPARTMENT'S ACCEPTANCE OF THE IMPROVEMENTS ARE CONTINGENT ON REPAIRS BEING MADE TO HAYS COUNTY'S SATISFACTION. DELAYS CAUSED BY REPAIRS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- A MINIMUM OF TWO (2) BENCHMARKS SHALL BE SHOWN ON THE CONSTRUCTION PLANS.
- ALL BEDDING MATERIALS USED WITHIN THE ROW SHALL COMPLY WITH COA ITEM 510.
- ALL CONCRETE PLACED WITHIN THE ROW SHALL BE A MINIMUM OF CLASS A. THE USE OF REBAR CHAIRS AND TESTS CYLINDERS WILL BE REQUIRED ON PCC VALLEY GUTTER PLACEMENTS.
- THE PROPOSED FULLY DEVELOPED STORMWATER RUNOFF RATE CANNOT EXCEED EXISTING CONDITIONS RUNOFF RATE.
- DEWATERING OPERATIONS MUST USE SWPPP-SPECIFIED METHODS ONLY. IF SUCH METHODS ARE ONLY GENERAL OR NOT APPLICABLE, PUMP FROM THE TOP OF THE POOL (RATHER THAN THE BOTTOM) AND DISCHARGE TO A VEGETATED, UPLAND AREA AWAY FROM WATERBODIES OR DRAINAGES) OR USE ANOTHER TYPE OF FILTRATION PRIOR TO DISCHARGE. REFER TO THE EPA 2017 GENERAL CONSTRUCTION PERMIT, SECTION 2.4, AS APPLICABLE.
- THE CONTRACTOR SHALL SUPPLY QUALIFIED PERSONNEL TO PERFORM SWPPP INSPECTIONS ON PROJECT ± 1 ACRE. QUALIFIED PERSONNEL SHALL HAVE CISEC, CESSWI, OR EQUIVALENT CERTIFICATION APPROVED BY THE MSA.
- CONTRACTOR SHALL ENSURE THAT MUD AND DEBRIS TRACKED ONTO PUBLICLY MAINTAINED ROADWAYS FROM VEHICLES LEAVING THE CONSTRUCTION SITE WILL BE CLEANED UP DAILY.
- NO EXPLOSIVES SHALL BE USED FOR THIS PROJECT WITHOUT TCEQ APPROVAL.
- ALL HOLES, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES IN COMPLIANCE WITH COA §905 AND OSHA REGULATIONS AT ALL TIMES.
- THE CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN PREPARED AND SEALED BY AN ENGINEER LICENSED BY THE STATE OF TEXAS PRIOR TO THE START OF THE PROJECT. THE CONTRACTOR SHALL ASSIGN A COMPETENT PERSON THAT HAS BEEN PROPERLY TRAINED AND IS QUALIFIED TO MAKE INSPECTIONS AND SUPERVISE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE TRENCH SAFETY OR EXCAVATION SAFETY SYSTEM.
- HAYS COUNTY IS NOT RESPONSIBLE FOR SIDEWALK MAINTENANCE. A NOTE ON THE FINAL PLAN IS REQUIRED NOTING ENTITY TO MAINTAIN SIDEWALKS (OTHER THAN HAYS COUNTY).
- CONTRACTOR SHALL COMPLY WITH CONSTRUCTION SEQUENCING WHICH MAY BE SPECIFIED SOMEWHERE IN THE CONSTRUCTION PLANS.
- PERMIT IS REQUIRED FOR CONSTRUCTION IN RIGHT OF WAY: ORDINANCE 7.10. NO DRIVEWAY, UTILITY CONSTRUCTION, MAILBOXES, LANDSCAPING OR ANY OTHER ENCROACHMENT INTO RIGHT-OF-WAY OR EASEMENT SHALL BE ALLOWED WITHOUT FIRST OBTAINING A PERMIT FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT.
- PRIOR TO THE INSTALLATION OF ANY ROAD BUILDING MATERIAL, THE SUBGRADE SHALL BE INSPECTED
- BY HAYS COUNTY. PRIOR TO PAVING, BASE MATERIAL SHALL BE INSPECTED BY HAYS COUNTY. THE OWNER OR HIS AGENT SHALL NOTIFY HAYS COUNTY FORTY-EIGHT (48) HOURS PRIOR TO THE TIME WHEN THE INSPECTION IS NEEDED. ORDINANCE 1.05; 2.06.
- ALL OUTFALLS CONSTRUCTED WITHIN HAYS COUNTY MUST BE SUBMITTED TO HAYS COUNTY WITH GPS COORDINATES AT THE END OF EACH PROJECT. COORDINATES WILL BE SUBMITTED ON THE NAD 1983 STATE PLANE SOUTH CENTRAL FIPS 4204 FTE COORDINATE SYSTEM. ALL COORDINATES WILL BE SUBMITTED IN GRID UNITS. THE REQUIRED FILE TYPE FOR COORDINATE DATA SUBMISSIONS IS ".TXT" FORMAT.
- AT THE TIME A FINAL INSPECTION AND RELEASE OF PERFORMANCE SECURITY IS REQUESTED, THE DESIGN ENGINEER SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" RECORD DRAWINGS IN PDF FORMAT (000P) ON A VIRUS FREE DISK AND SHALL CERTIFY THAT ALL ROAD AND DRAINAGE CONSTRUCTION HAS BEEN COMPLETED IN SUBSTANTIAL ACCORDANCE WITH PREVIOUSLY APPROVED PLANS AND SPECIFICATIONS, EXCEPT AS NOTED.
- NO PERFORMANCE SECURITY WILL BE RELEASED WITHOUT THESE EXHIBITS.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CONTRIBUTING ZONE PLAN GENERAL CONSTRUCTION NOTES:

TCEQ-0592A (REV. JULY 15, 2015)

- 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 AND THE DATE
 - 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.
- NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
- PRIOR TO BEGINNING ANY CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THE CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- 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.
- SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENT BASINS WHEN IT OCCUPIES 50% OF THE BASIN DESIGN CAPACITY.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFF-SITE.
- ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
- 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 AVOID BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
- THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
 - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR
 - THE DATES WHEN MAJOR CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE
<

F:\TRAUTWEIN COMMERCIAL PARK\PROJECTS\00-006-AUSDRAWING\PLANSET\JULEP-EAST04 DEMOLITION PLAN.DWG, 5/31/2024, DAVID JOHNSTON



JULEP COMMERCIAL PARK - EAST
HAYS COUNTY, TEXAS 78737

EXISTING CONDITIONS

MALONE ★ WHEELER
INC. SINCE 1975

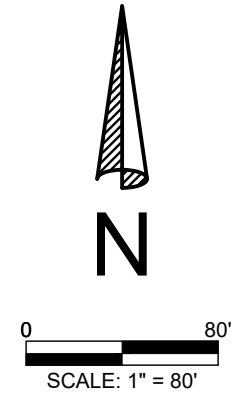
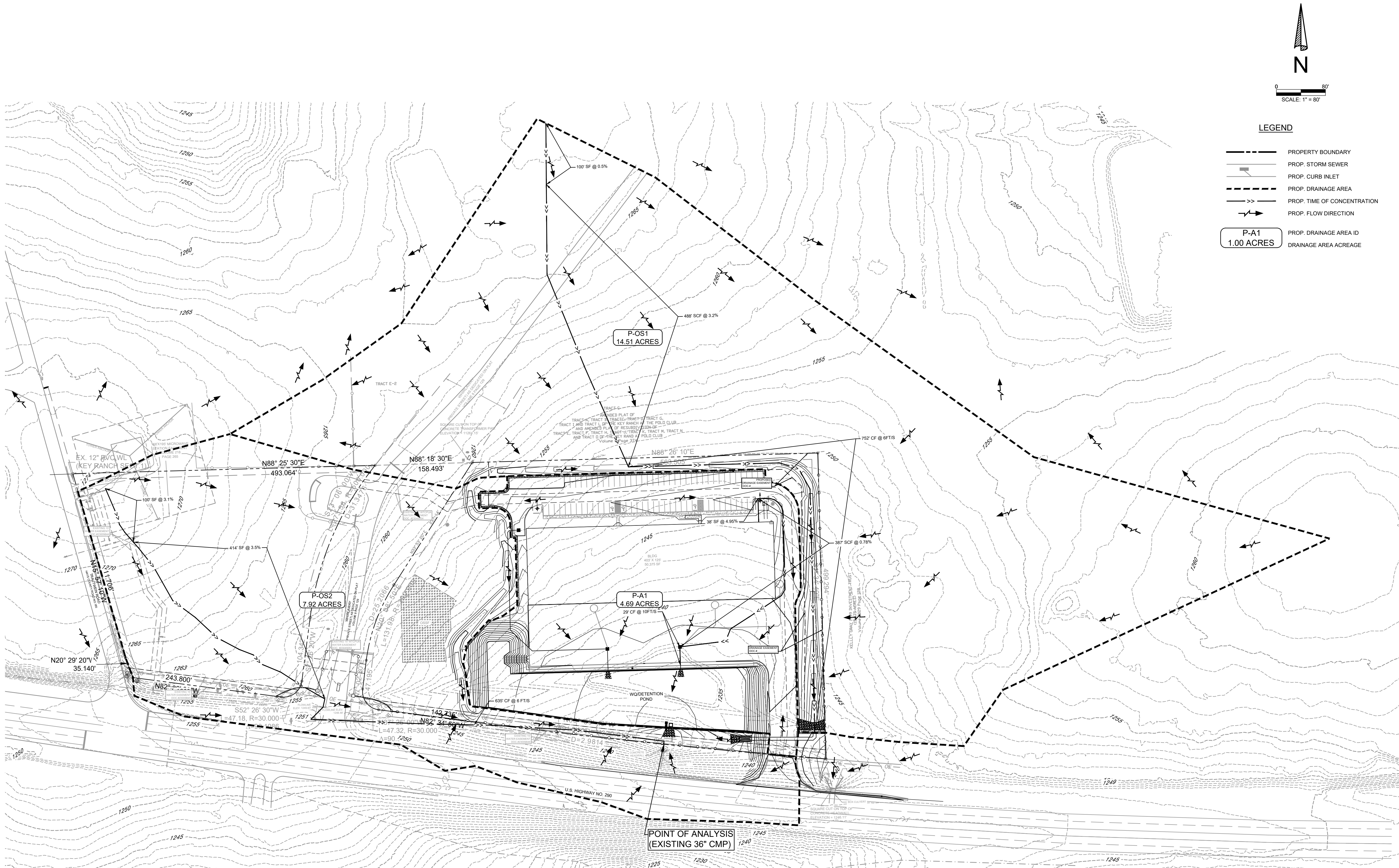
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 240
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



DESIGN BY: DJ
CHECKED BY: AV
APPROVED BY: DB
DATE: 5/31/2024

SHEET 03
OF 24

F:\TRAUTWEIN COMMERCIAL PARK\PROJECTS\06-AUSDRAWINGS\PLANSET\JULEP-EAST\07 PROPOSED DRAINAGE AREA MAP.DWG, 5/31/2024, DAVID JOHNSTON



LEGEND

- PROPERTY BOUNDARY
- PROP. STORM SEWER
- PROP. CURB INLET
- PROP. DRAINAGE AREA
- > PROP. TIME OF CONCENTRATION
- > PROP. FLOW DIRECTION
- P-A1 1.00 ACRES PROP. DRAINAGE AREA ID DRAINAGE AREA ACREAGE

PROPOSED DRAINAGE AREAS										
DRAIN. AREA NO.	AREA (acres)	TC (min)	COMP. C	Q2 (cfs)	Q5 (cfs)	Q10 (cfs)	Q25 (cfs)	Q50 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
P-A1	4.69	7.67	92	14.28	19.69	25.10	33.45	40.74	49.71	P-A1
P-OS1	14.51	19.89	82	25.86	39.13	52.71	73.90	92.42	115.17	P-OS1
P-OS2	7.92	19.75	86	16.21	23.58	31.01	42.52	52.54	64.87	P-OS2
TOTAL	27.12			56.35	82.40	108.82	149.87	185.70	229.75	TOTAL

NOTE: VALUES ABOVE ARE FOR UNDETAINED FLOWS.
NOTE: ATLAS 14 RAINFALL DATA USED FOR DRAINAGE CALCULATIONS.

PRE/POST DEVELOPMENT						
POINT OF ANALYSIS	Q2 (cfs)	Q5 (cfs)	Q10 (cfs)	Q25 (cfs)	Q50 (cfs)	Q100 (cfs)
EXISTING-POINT OF ANALYSIS	47.92	73.08	91.24	108.91	119.02	134.38
PROPOSED-POINT OF ANALYSIS (WITH DETENTION)	46.52	67.78	80.72	94.07	105.00	117.07

NOTE: VALUES ABOVE ARE FOR DETAINED FLOWS IN PROPOSED CONDITIONS. SEE POND SHEETS FOR MORE INFORMATION.

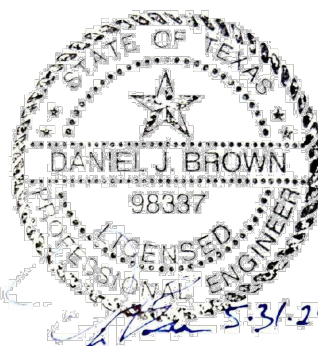
NOTE: DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.

JULEP COMMERCIAL PARK - EAST
HAYS COUNTY, TEXAS 78737

PROPOSED DRAINAGE AREA MAP

MALONE ★ WHEELER
INC. SINCE 1975

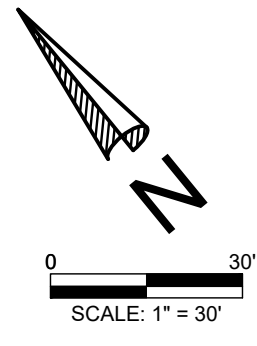
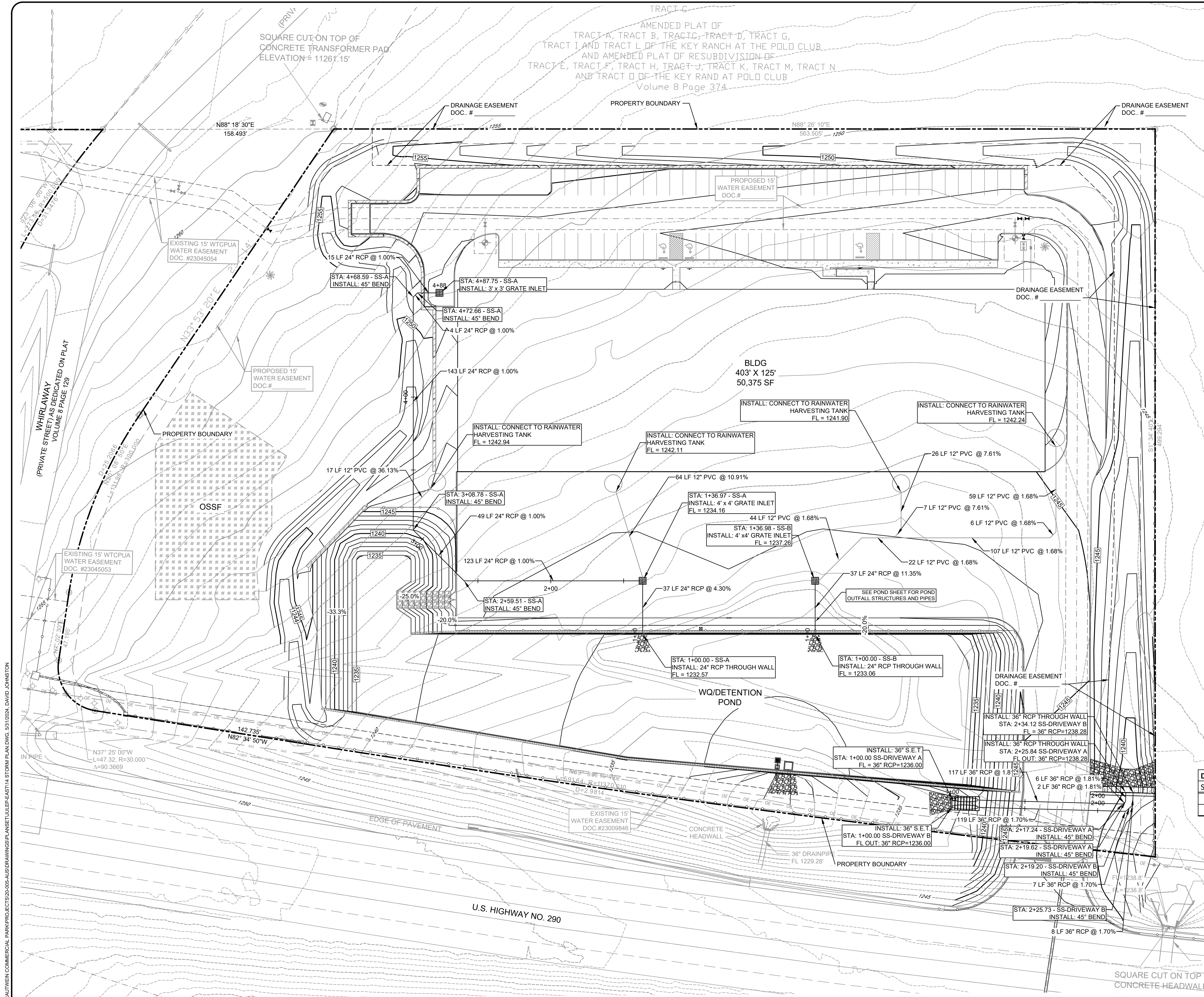
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
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DESIGN BY: DJ
CHECKED BY: AV
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DATE: 5/31/2024

SHEET 07
OF 24

F:\TRAUTWEIN COMMERCIAL PARK\PROJECTS\20-006-AUSDRAWING\PLANSET\JULEP-EAST\14 STORM PLAN.DWG, 5/31/2024, DAVID JOHNSTON



- LEGEND
- PROPERTY LINE
 - PROP. BUILDING SETBACK
 - PROP. PUBLIC UTILITY EASEMENT
 - PROP. WATER LINE
 - PROP. GATE VALVE
 - PROP. FIRE HYDRANT
 - PROP. WASTEWATER LINE
 - PROP. WASTEWATER MANHOLE
 - PROP. STORM SEWER
 - PROP. CURB INLET
 - PROP. STORM SEWER MANHOLE
 - EXISTING WATER LINE
 - EXISTING GATE VALVE
 - EXISTING FIRE HYDRANT
 - EXIST. WASTEWATER LINE
 - 250
 - 250
 - PROP. CONTOUR

NOTE: DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.

DRIVEWAY CULVERT-HEADWATER ELEVATION		
STORM EVENT	ALLOWABLE	COMPUTED
5-YEAR	1243.00	1240.36
100-YEAR	1243.00	1242.42

DRIVEWAY CULVERT CALCULATED VELOCITY AT END OF RIPRAP		
STORM EVENT (Atlas 14 Rainfall)	FLOW RATE (cfs)	VELOCITY (ft/s)
2-YEAR	25.82	2.27
5-YEAR	39.08	2.64
10-YEAR	52.63	2.94
25-YEAR	73.80	3.32
50-YEAR	92.29	3.59
100-YEAR	115.02	3.88

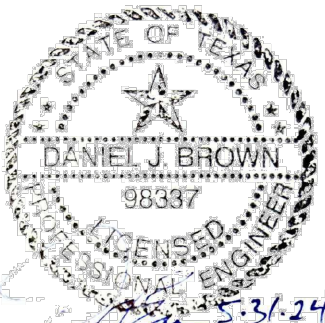
BY	
REVISION	
DATE	
NO.	

JULEP COMMERCIAL PARK - EAST
HAYS COUNTY, TEXAS 78737

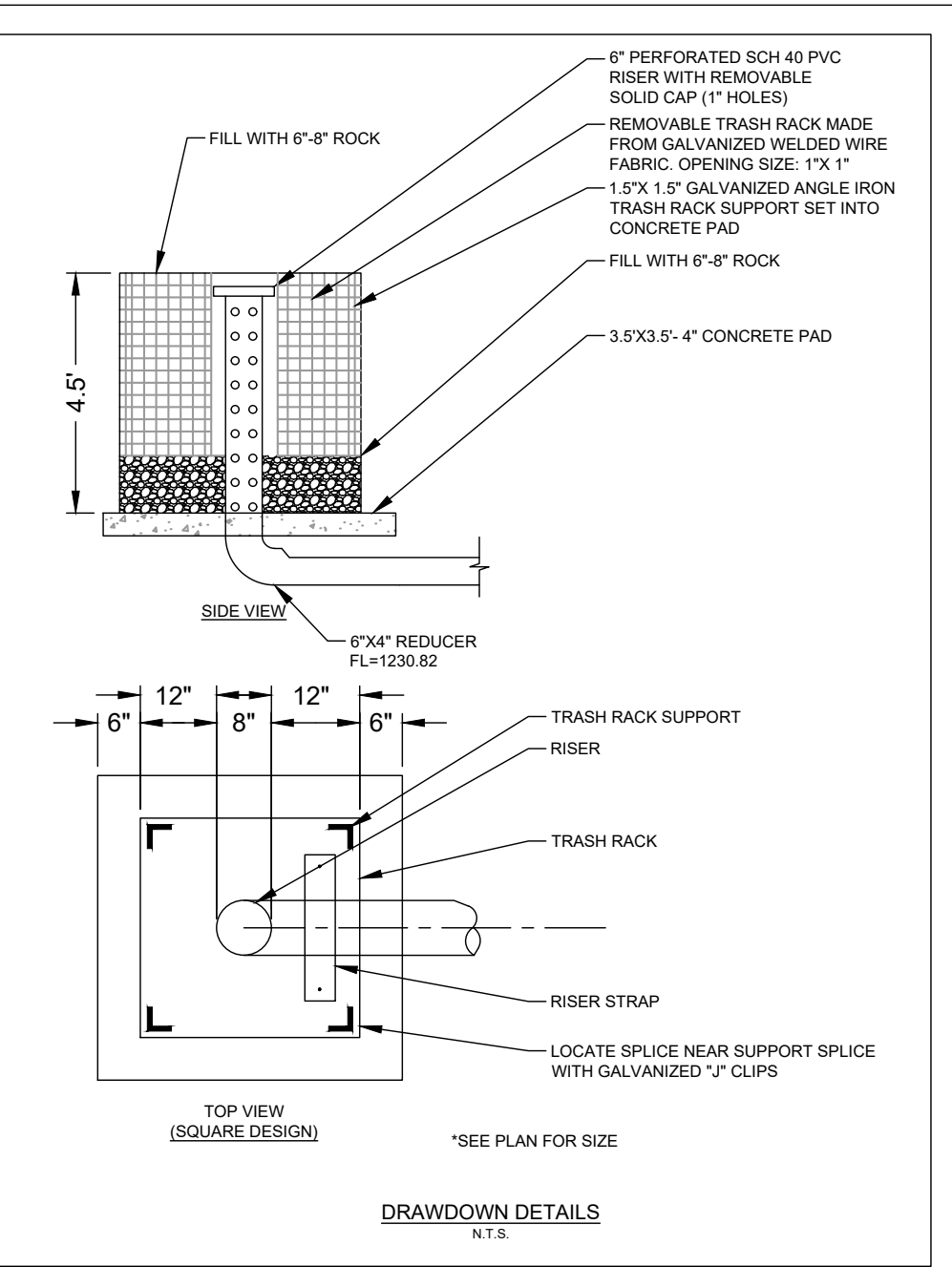
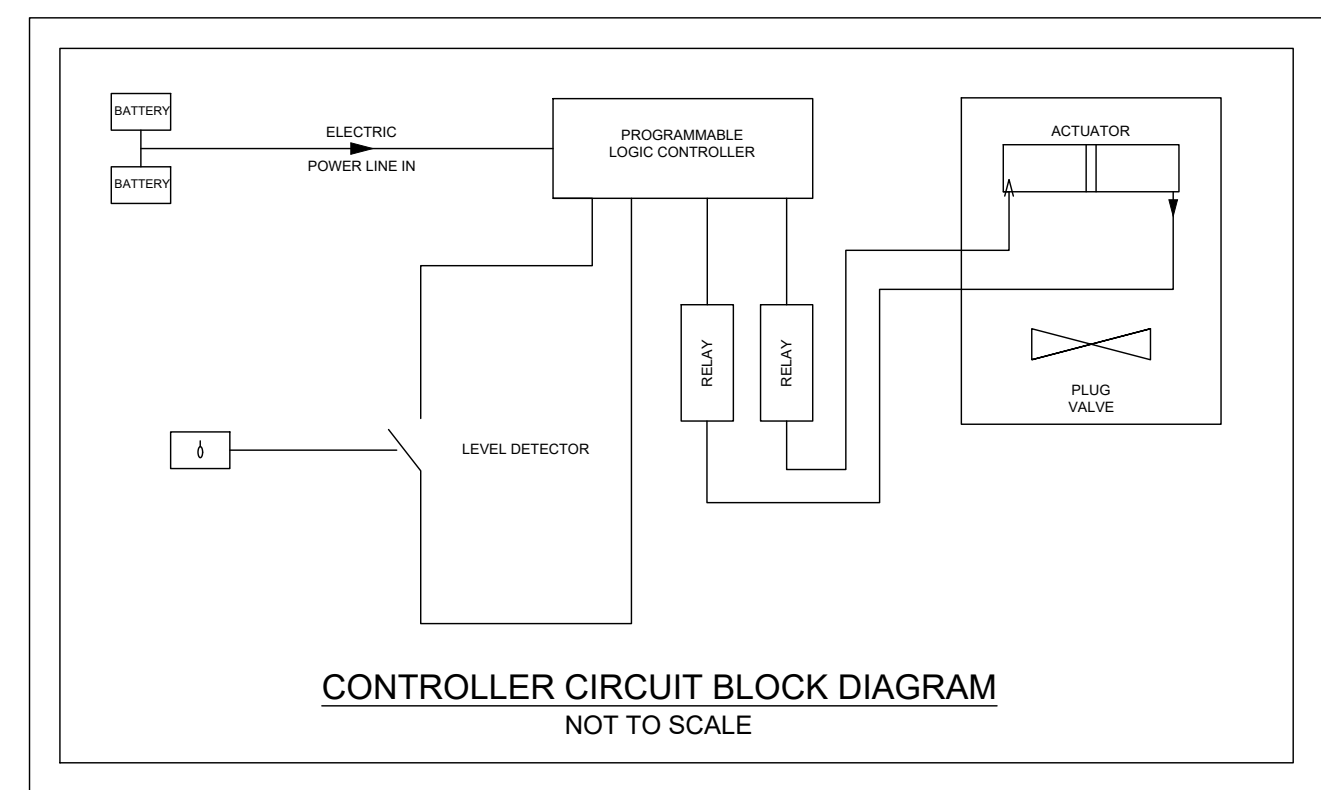
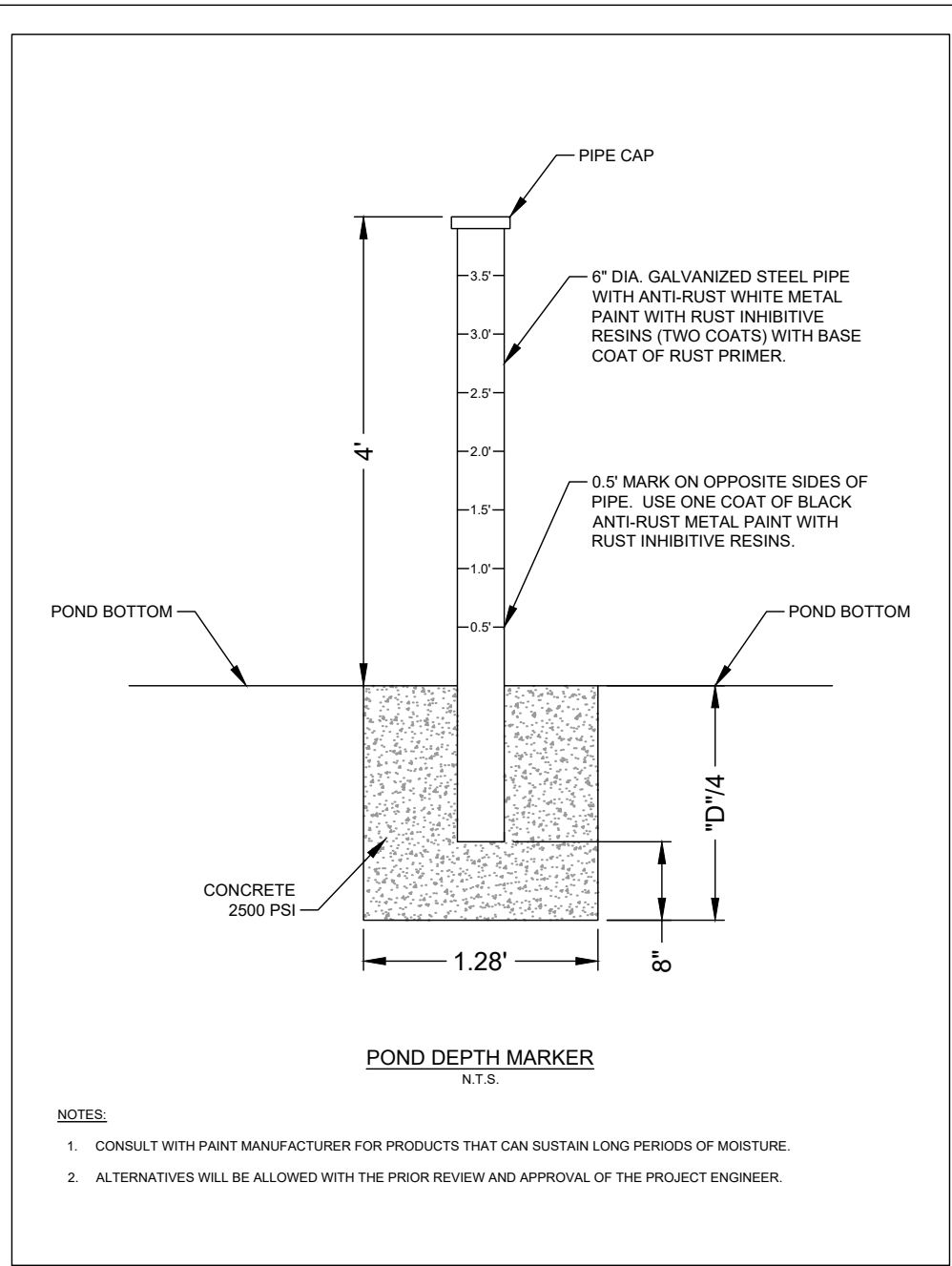
STORM PLAN

MALONE ★ WHEELER
INC. SINCE 1975

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
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5' x 5' JUNCTION BOX WITH OPEN TOP

5'

4' NOTCH

EL 1237.22

WQV EL 1233.40'

OPENING FOR 30" OUTFALL

FL = 1231.35'

▽ 100YR WSE 1237.22

▽ 50YR WSE 1236.18

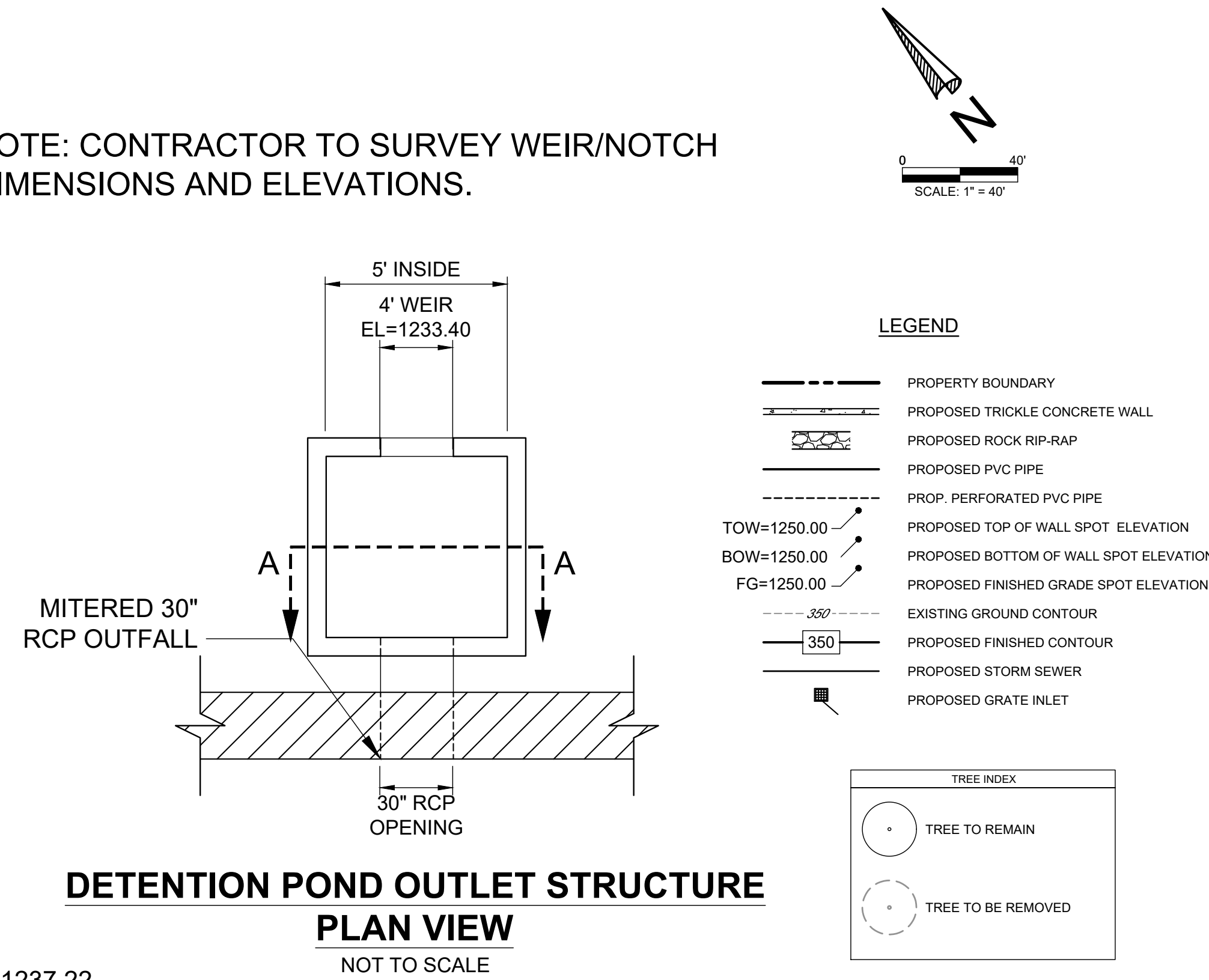
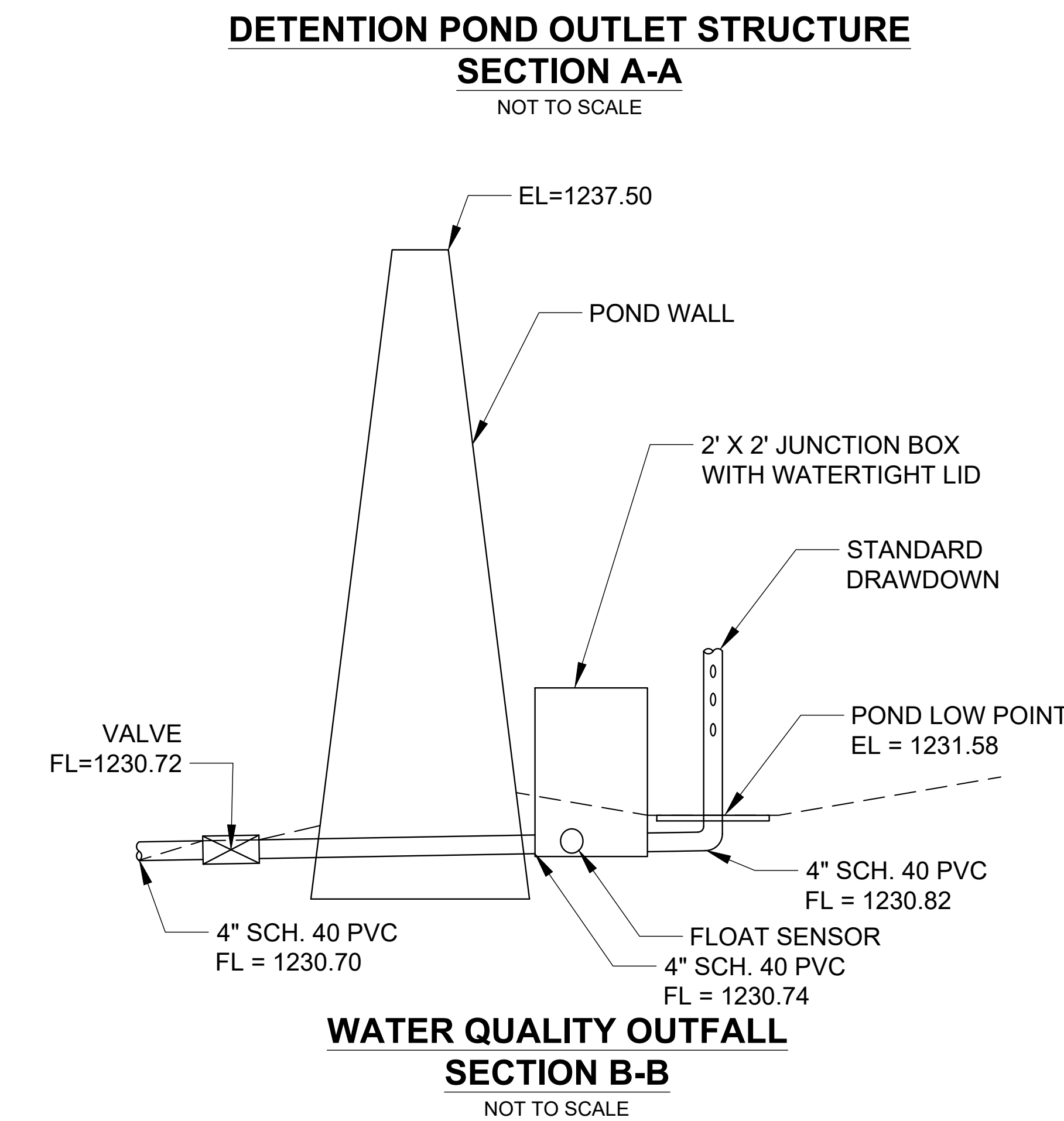
▽ 25YR WSE 1235.38

▽ 10YR WSE 1234.55

▽ 5YR WSE 1234.21

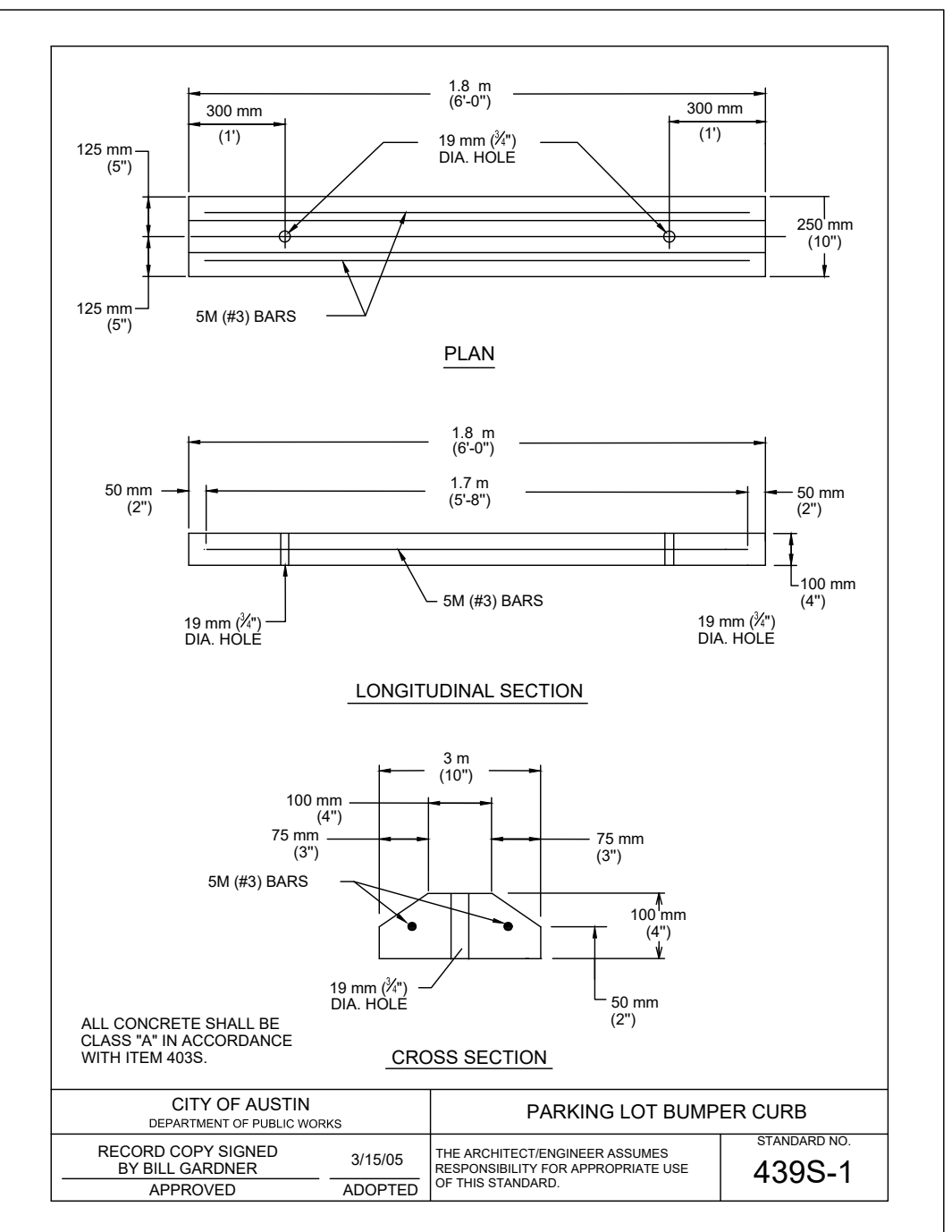
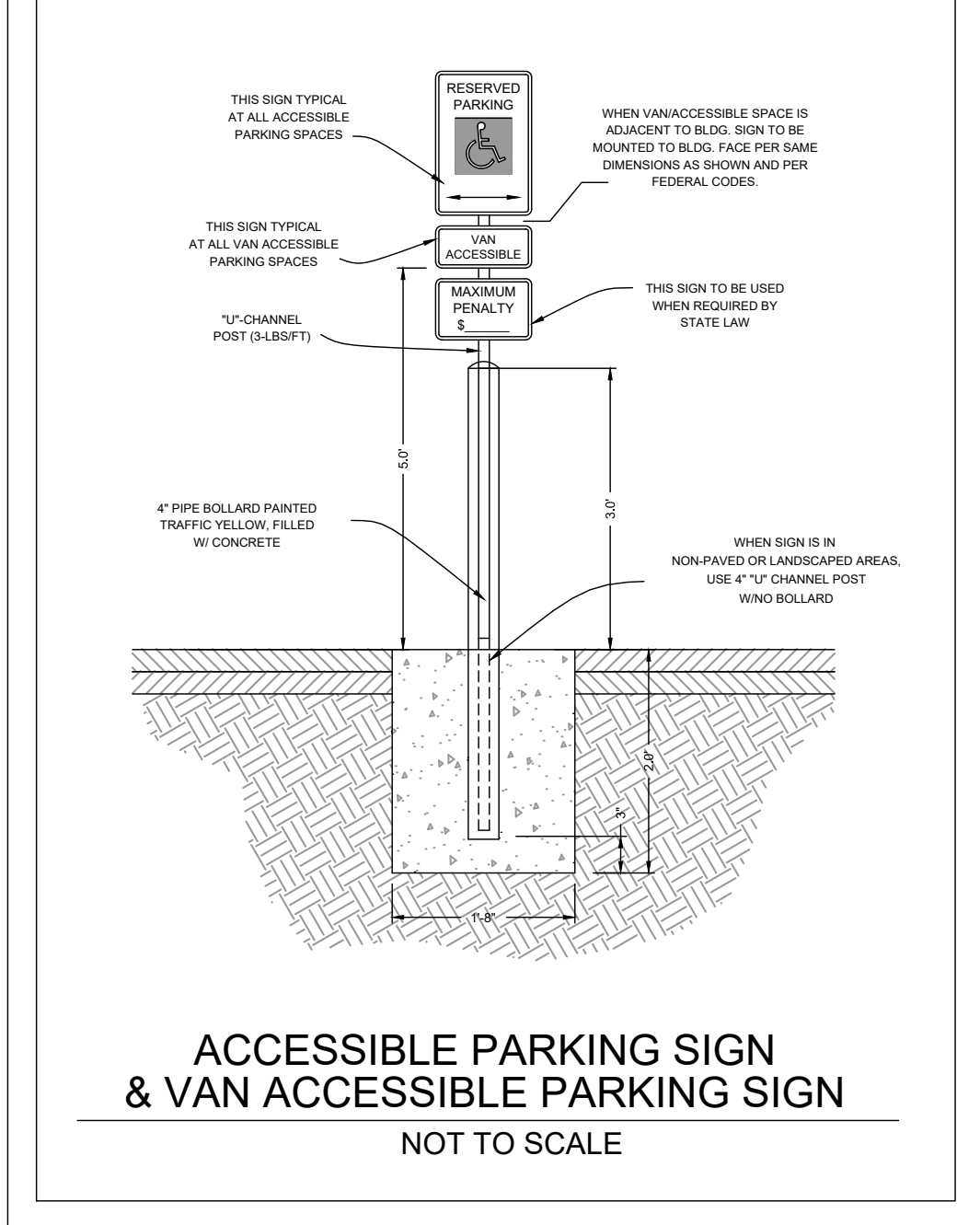
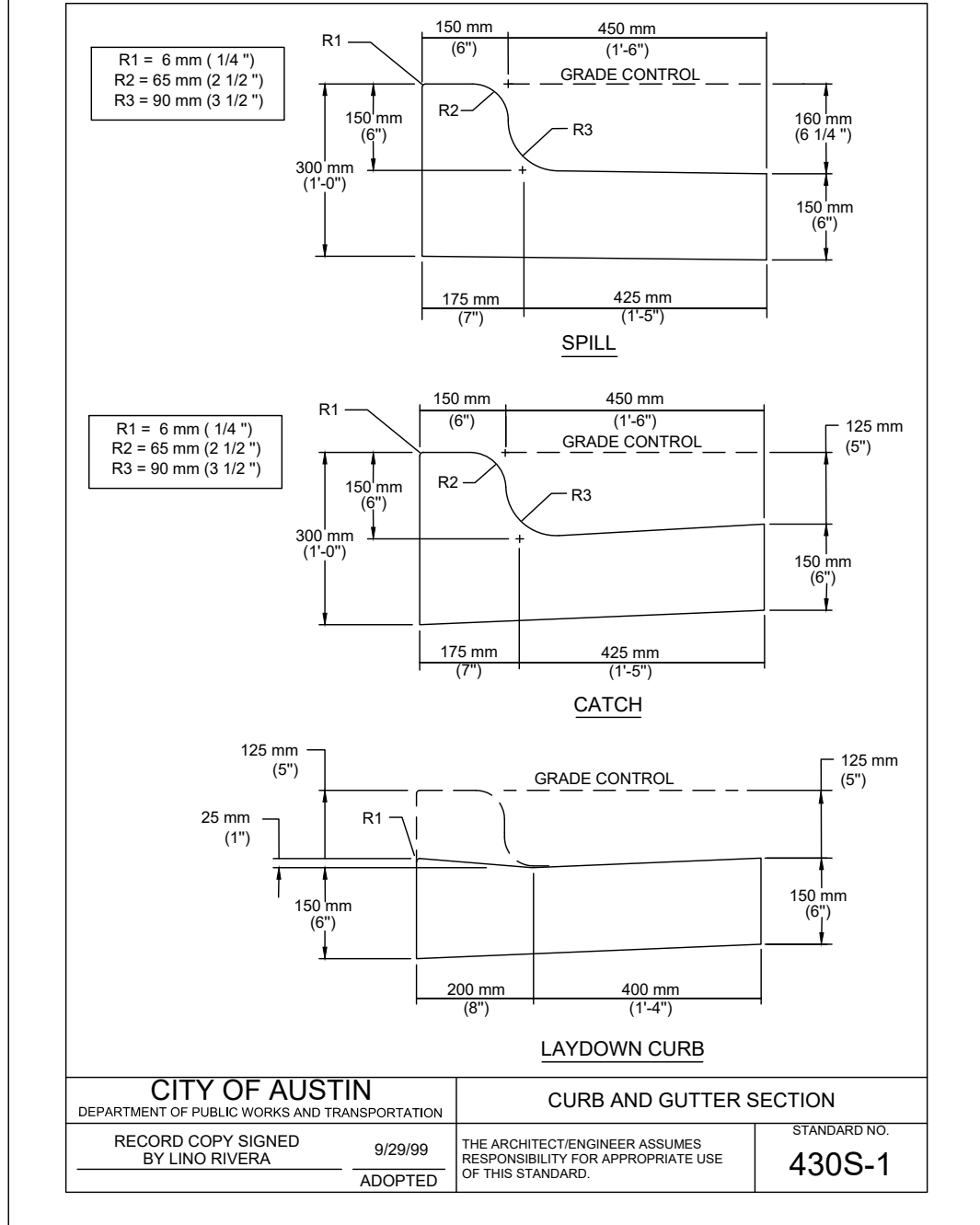
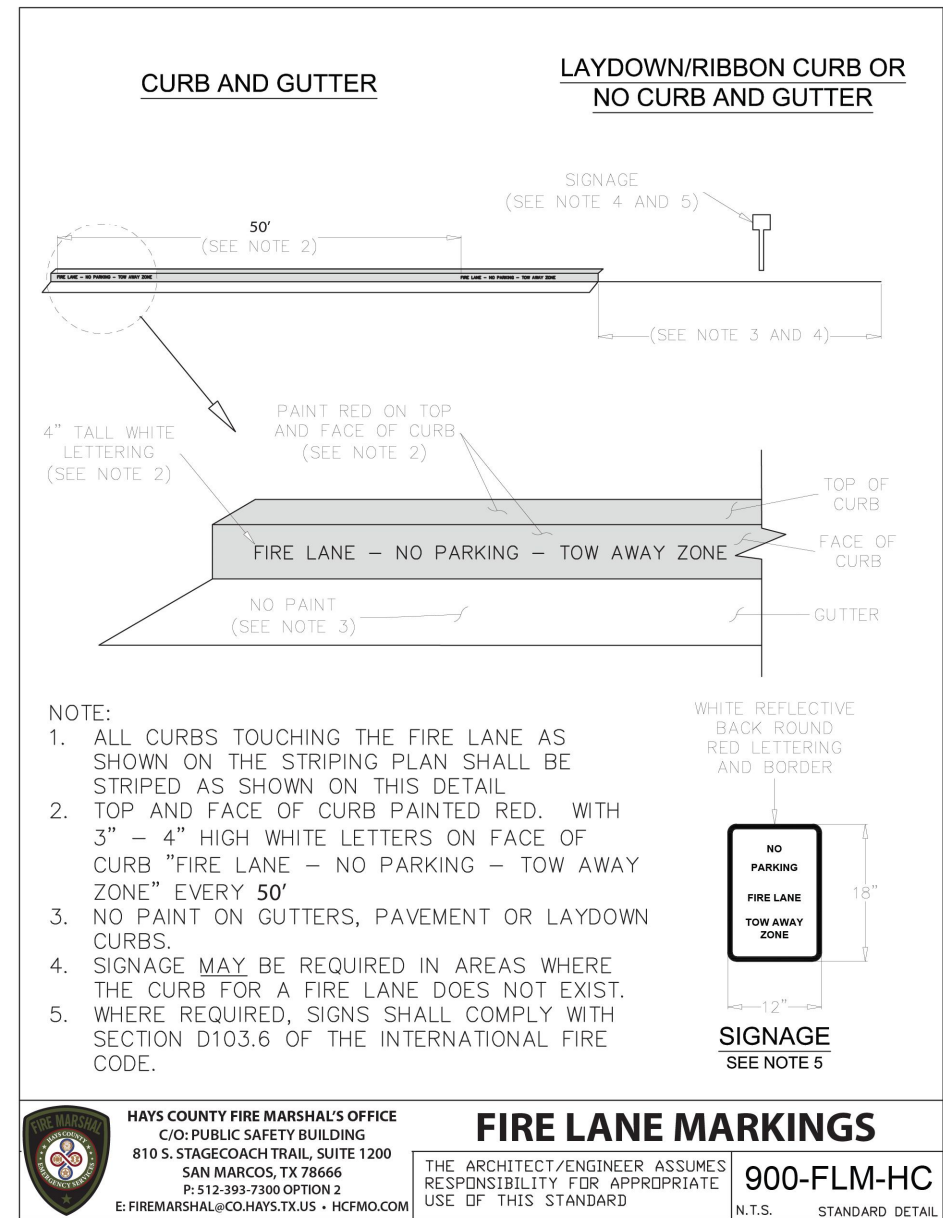
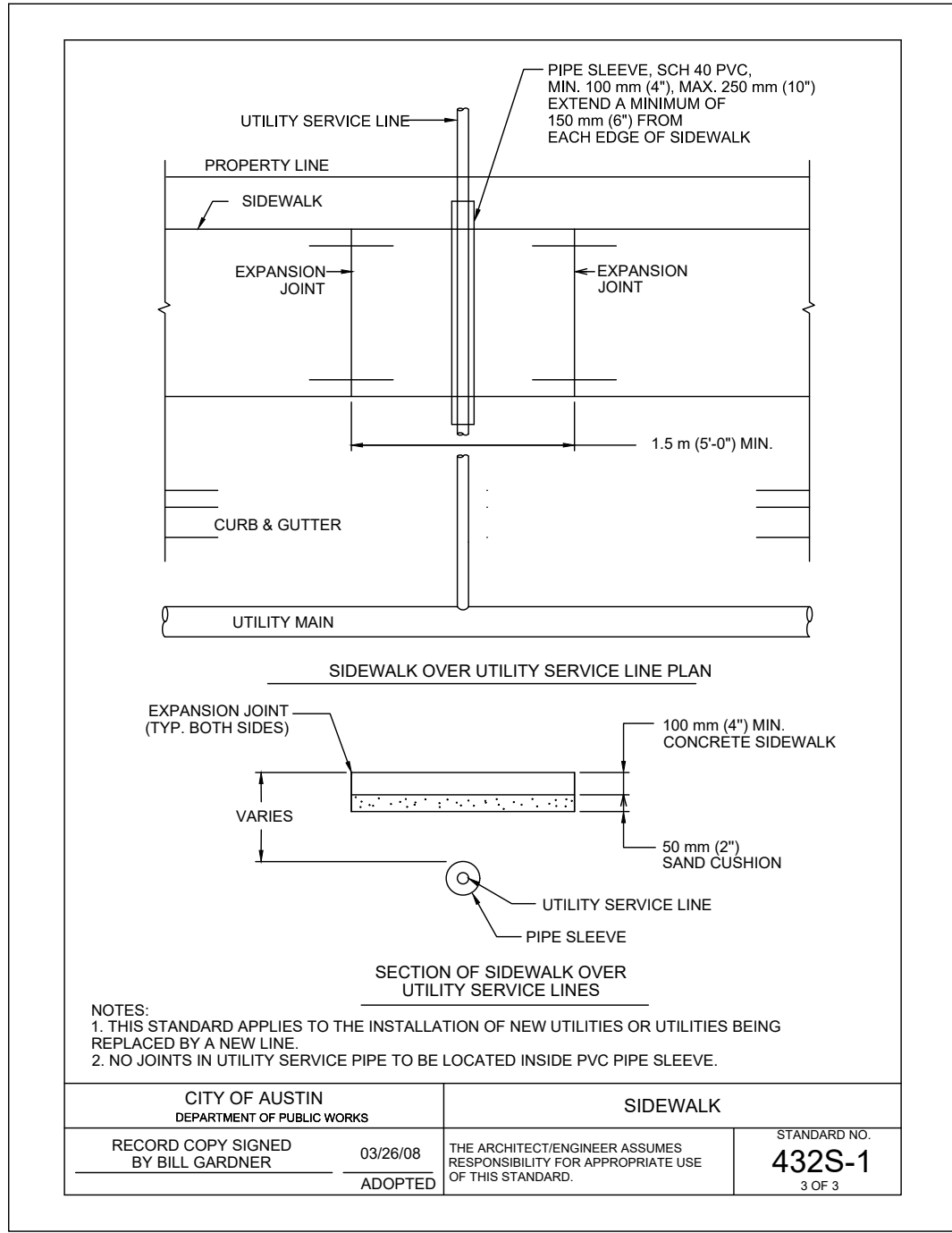
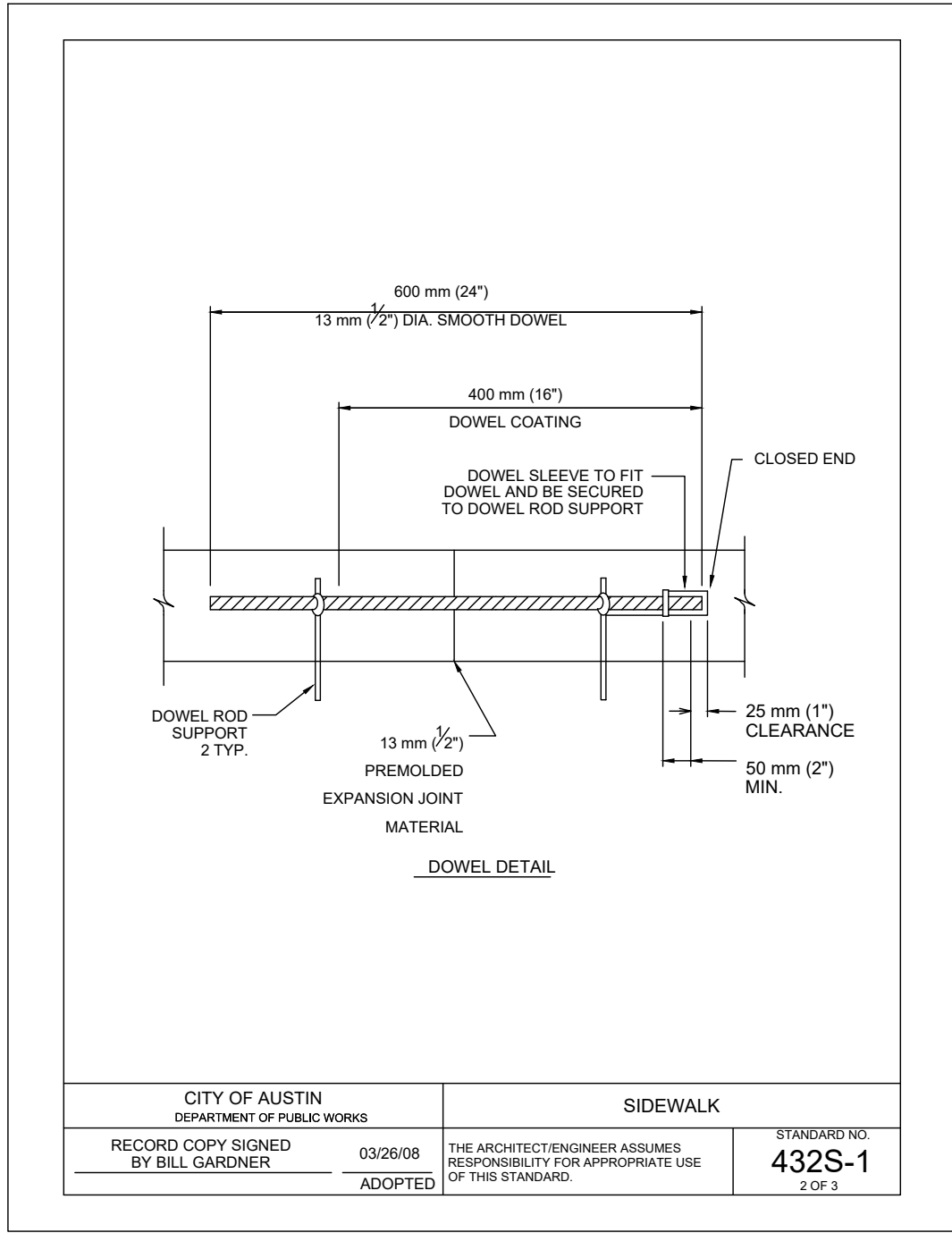
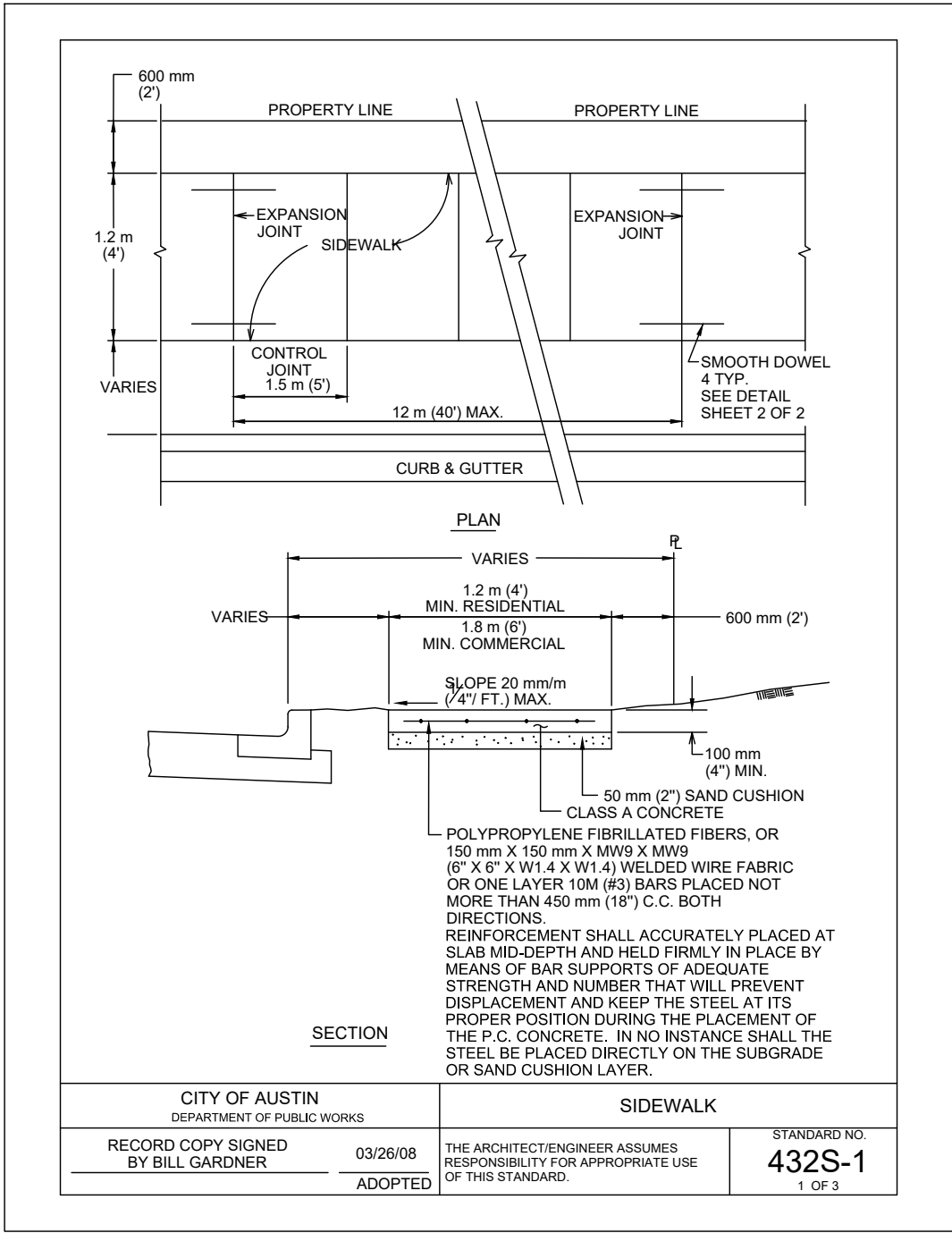
▽ 2YR WSE 1234.02

D



Texas Commission on Quality		Project Name: Juep Commercial Park - East Date Prepared: 9/14/2023	
TSS Removal Calculations 04-20-2009			
<p>Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicates 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 the spreadsheets.</p>			
1. The Required Load Reduction for the total project:		Calculations from RG-348a	
		Page 21	
Page 21 Equation 4.3: $L_d = 27.7A \times P$			
where:	L_d TOTAL PROJECT = Required TSS removal (pounds) A = Impervious Area (acres) P = Average annual precipitation, inches		
Site Data: Determine Required Load Removal Based on the Entire Project			
County = _____ Total project area included in plan = 7.16 acres Predevelopment impervious area within the limits of the plan = 0.00 acres Total post-development impervious area within the limits of the plan = 3.50 acres Total post-development impervious cover fraction = 0.49 F = 53 percent		Hays Total area of property 7.16 acres Includes a proposed impervious in ROW 3.50 acres 0.49 53 percent	
* The values entered in these fields should be for the total project area. L_d TOTAL PROJECT = 2925 lbs.		L_d Calculation from RG-348a page 21	
Number of drainage basins / outfalls areas leaving the plan area = 1			
2. Drainage Basin Parameters (This information should be provided for each basin):			
48.4			
Drainage Basin/Outfall Area No. = Pond 1			
Total drainage basin/outfall area = 4.69 acres			
Predevelopment impervious area within drainage basin/outfall area = 0.00 acres			
Post-development impervious area within drainage basin/outfall area = 3.10 acres			
Post-development impervious fraction within drainage basin/outfall area = 0.66			
L_d THIS BASIN = 2834 lbs.		L_d Calculation from RG-348a page 21	
3. Indicate the proposed BMP code for this basin.			
Proposed BMP = Batch Detention/Basin			
Removal efficiency = 91 percent			
		Aquatic/Catchment Filter Batch Detention Basin Bio-retention Corrugated Storm Filter Constructed Wetland Extended Detention Grass Swale Retention/Irrigation Sand Filter Stormwater Vegetated Filter Strips Voids Wet Basin Wet Vault	
4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.			
RG-348 Page 3-33 Equation 3: $L_R = (BMP\ efficiency) \times P \times (A_i \times 34.6 + A_o \times 0.54)$			
where:	A_i = Total On-Site drainage area in the BMP catchment area A_o = Impervious area proposed in the BMP catchment area A_p = Permeous area remaining in the BMP catchment area L_R = TSS Load removed from this catchment area by the proposed BMP		
	A_i = 4.69 acres A_o = 3.10 acres A_p = 1.59 acres L_R = 3247 lbs.		
5. Calculate Fraction of Annual Runoff to Treat at the drainage basin / outfall area			
	L_d THIS BASIN = 2925 lbs. F = 0.90		
6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.			
		Calculations from RG-348 Pages 3-34 to 3-36 and RG-348a	
		Project Name: Juep Commercial Park - East	
Raintial Depth = 1.82 inches Post Development Runoff Coefficient = 0.61 On-site Water Quality Volume = 18958 cubic feet		C_u = 0.00 acres C_v = 0.00 acres I = 0 O = 0 C_{eff} = 0.00 C_{eff} = 0.00 cubic feet	
Storage by Sediment = 2792			
Total Capture Volume (required water quality volume(s) x 1.20) =		3739 cubic feet	

F:\TRAUTWEN COMMERCIAL PARK\PROJECTS\200-006-AUSDRAWINGS\PLANSET\JULEP-EAST04.TXDOT MBGF DETAILS.DWG, 5/31/2024, DAVID JOHNSTON



JULEP COMMERCIAL PARK - EAST
HAYS COUNTY, TEXAS 78737

PAVING DETAILS

MALONE ★ WHEELER
SINCE 1975
INC.

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



DESIGN BY: DJ
CHECKED BY: AV
APPROVED BY: DB
DATE: 5/22/2024

SHEET 20
OF 24



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT N – INSPECTION, MAINTENANCE,
REPAIR AND RETROFIT PLAN**

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT "N"

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

JULEP COMMERCIAL PARK-EAST

Batch Detention Basin

Inspections. Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.

Mowing. The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

Litter and Debris Removal. Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

Erosion control. The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.

Nuisance Control. Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

Structural Repairs and Replacement. With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

Logic Controller. The Logic Controller should be inspected as part of the twice yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

Recordkeeping. Maintain a field logbook to record any relevant information noted during inspections. At a minimum, the field notebook should include the date and time, field staff names, weather conditions, uniformity of grass cover, presence of debris and/or litter, and areas of sediment accumulation as well as any corrective actions taken and date they were completed. Records shall be maintained for a minimum of 3 years and shall be made available to TCEQ upon request. A sample inspection report is included with this attachment.

Responsible Party: KELLY GRAY INVESTMENTS LLC BY COSMO PALMIERI

Mailing Address: 6907 N CAPITAL OF TEXAS HWY

City, State: AUSTIN, TX Zip: 78731

Telephone: 512-637-3682 Email: COSMO@SERVICEGROUPHOLDINGS.COM


Signature of Responsible Party

1/13/2022
Date

TO BE MADE AVAILABLE UPON REQUEST

PROJECT NAME: JULEP COMMERCIAL PARK-EAST

OWNER/OPERATOR:

INSPECTOR: _____

SIGNATURE: _____

LAND AREA	LOCATION	CONTROL MEASURE	CURRENT CONDITION	CORRECTIVE ACTION TO BE TAKEN	CORRECTION CODE

DATE OF LAST RAINFALL:
AMOUNT OF LAST RAINFALL:
DATE OF INSPECTION:

CHANGES REQUIRED

CONDITION CODES;
01 - TO BE FIXED OR REPLACED WITHIN 24 HRS
02 - TO BE FIXED OR REPLACED WITHIN 48 HRS
03 - TO BE FIXED OR REPLACED PRIOR TO NEXT INSPECTION
04 - SEE ADDITIONAL NOTES

ADDITIONAL NOTES

REASONS FOR CHANGES

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly gathering information, the information submitted is, to the best of my knowledge and beliefs true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing or willful violations.

Signature: _____

Date: _____



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT O – PILOT-SCALE FIELD TESTING PLAN



Julep Commercial Park East

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT O – Pilot-Scale Field Testing Plan

Not Applicable to this project.

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. 786 ★ www.malonewheeler.com



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT P – MEASURES FOR MINIMIZING
SURFACE STREAM CONTAMINATION**

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT "P"

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

JULEP COMMERCIAL PARK-EAST

There are no surface streams on site. The property drains to an existing TxDOT roadside ditch. Predeveloped drainage patterns have been maintained. TSS removal will occur in the batch detention pond prior to discharge from the site.

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: Dan Brown, P.E.

Date: 7/12/2024

Signature of Customer/Agent:



Regulated Entity Name: Julep Commercial Park-East

Project Information

Potential Sources of Contamination

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

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

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

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

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

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

Sequence of Construction

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

Temporary Best Management Practices (TBMPs)

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

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

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

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

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

☐ N/A

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

Soil Stabilization Practices

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

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

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

Administrative Information

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



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT A –
SPILL RESPONSE ACTIONS**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "A"

SPILL RESPONSE ACTIONS

JULEP COMMERCIAL PARK-EAST

Fuel and hazardous substances will not be stored on-site. Sources of spills would include accidents during refueling operations or damage to mechanical equipment. In addition to general care and good "housekeeping" practices, the following practices will be followed for accidental spill prevention and cleanup:

1. Site and construction personnel will be required to be aware of manufacturer's recommended methods for spill cleanup, the location of information, and the cleanup supplies.
2. Materials and equipment necessary for spill cleanup will be kept on-site in an accessible location known to site personnel.
3. All spills will be cleaned up immediately upon discovery.
4. All spill response actions shall comply with 30 TAC 327, Spill Prevention and Control, Texas Commission on Environmental Quality.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT B –
POTENTIAL SOURCES OF CONTAMINATION**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "B"

POTENTIAL SOURCES OF CONTAMINANTS
JULEP COMMERCIAL PARK-EAST

The materials or substances listed below are expected to be used on-site during construction.

1. Concrete and concrete products
2. Asphaltic products
3. Petroleum-based products
4. Paints
5. Fertilizers
6. Lumber

The following procedures are potential sources of contamination:

1. Earth grading
2. Installation of asphalt and concrete
3. Moving/storage of soil
4. Construction traffic
5. Trenching for underground utilities



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT C –
SEQUENCE OF MAJOR ACTIVITIES**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "C"

SEQUENCE OF MAJOR ACTIVITIES

JULEP COMMERCIAL PARK-EAST

1. CLEAR & GRUB (Area= 5.99 acres)
2. ROUGH GRADE (Area = 5.99 acres)
3. INSTALL UTILITY SERVICE AND CONNECTIONS AND STORM SEWER SYSTEM (Area = 0.44 acres)
4. OFFSITE DRAINAGE CHANNEL CONSTRUCTION (Area = 0.07 acres)
5. POND CONSTRUCTION (Area = 0.87 acres)
6. BASE AND PAVING APPLICATION (Area = 1.92 acres)
7. RESTORATION OF SITE (Area = 5.99 acres)

Tree protection fences shall be put in place according to City of Austin standards for tree protection prior to the start of any site preparation work. Fences shall be maintained throughout all phases of the construction project. Inlet protection will be used at all inlets throughout the construction phase. Mulch Log will be used during construction of the drainage channel until adequate grass coverage is established.

During the installation of utilities and base and paving application, the contractor shall use dust control measures such as irrigation trucks and mulching. Contractor will clean up spoils that migrate onto the roads a minimum of once daily.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT D –
TEMPORARY BEST MANAGEMENT PRACTICES AND
MEASURES**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "D"

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES
JULEP COMMERCIAL PARK-EAST

Inlet protection will be installed to stop the pollution of stormwater runoff by preventing soil and debris from entering storm drain inlets. Silt fences will be utilized to filter stormwater runoff and keep soil on the disturbed land, rather than letting it be washed off into natural water bodies. Silt fences and rock berms downstream of disturbed areas shall be installed per the plans, maintained, and regularly inspected throughout the duration of all major construction activities until revegetation is complete. The revegetation shall be deemed complete when coverage is 85% on slopes of 0-5% and 95% on areas exceeding 5% slope with no bare areas greater than ten (10) square feet remain.

In addition to the installation of silt fencing and inlet protection, a stabilized construction entrance will be provided for all traffic accessing the site and a concrete washout will be provided. Tree protection will also be provided as needed.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT E –
REQUEST TO TEMPORARILY SEAL A FEATURE, IF
SEALING A FEATURE**

Not applicable for this project.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT F –
STRUCTURAL PRACTICES**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "F"

STRUCTURAL PRACTICES

JULEP COMMERCIAL PARK-EAST

The following structural controls and procedures will be utilized on this project to limit runoff discharge of pollutants:

1. A stabilized construction entrance will be used for all traffic accessing the site.
2. Silt fences or rock berms will be installed downstream of all disturbed areas and remain in place until final site stabilization is achieved.
3. A washout will be in place for concrete trucks exiting the site.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT G –
DRAINAGE AREA MAP**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "G"

DRAINAGE AREA MAP

JULEP COMMERCIAL PARK-EAST

See the Drainage Area Maps in the construction plans (sheets 6-7).



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT H –
TEMPORARY SEDIMENT BASIN**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "H"

TEMPORARY SEDIMENT BASIN

JULEP COMMERCIAL PARK-EAST

Since more than 5 acres of the site will be disturbed at one time, a temporary sediment basin is required. The rough-cut batch detention pond will be used as the temporary sediment basin during construction activities. See sheets 17 and 18 of the attached construction plans for TSS removal & pond volume calculations.



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT I –
INSPECTION AND MAINTENANCE TEMPORARY
BMPS**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "I"

INSPECTION AND MAINTENANCE OF TEMPORARY BMPS
JULEP COMMERCIAL PARK-EAST

Erosion and Sediment Control Inspection and Maintenance Practices

1. The Contractor will inspect the control measures weekly and within 24 hours after rainfall events of ½-inch or more.
2. Temporary construction entrances should be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. All sediment spilled, dropped washed or tracked onto public rights-of-way should be removed immediately by contractor.
3. Repairs will be made to damaged areas as soon as practicable after damage is discovered but no later than seven days after the inspection.
4. Build-up sediment will be removed once it has reached maximum depth of six inches.
5. Temporary and permanent seeding shall be irrigated or sprinkled in a manner that will not erode topsoil, and at sufficient quantity and intervals to achieve restoration requirements. Irrigation shall occur at ten-day intervals during the first two months. Rainfall of ½-inch or more shall postpone watering schedule by one week.
6. The Contractor will be responsible for ensuring maintenance of the erosion and sedimentation controls. The Owner (and/or qualified agents) and Contractor shall be independently responsible for inspection of the controls, and for required record keeping (see sample inspection and maintenance report).
7. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize off-site impacts.

TO BE MADE AVAILABLE UPON REQUEST

PROJECT NAME: JULEP COMMERCIAL PARK-EAST

OWNER/OPERATOR:

INSPECTOR:

SIGNATURE:

LAND AREA	LOCATION	DATE OF MAJOR GRADING ACTIVITIES	DAILY CONST. ACTIVITY CEASES	DATE OF STABILIZATION(S) AND/OR NEXT DISTURBANCE	CONTROL MEASURE	CURRENT CONDITION	CORRECTIVE ACTION TO BE TAKEN	CORRECTION CODE

DATE OF LAST RAINFALL:
AMOUNT OF LAST RAINFALL:
DATE OF INSPECTION:
CONTRACTOR:
DATE RECEIVED:

ADDITIONAL NOTES

CHANGES REQUIRED

REASONS FOR CHANGES

CONDITION CODES;
01 - TO BE FIXED OR REPLACED WITHIN 24 HRS
02 - TO BE FIXED OR REPLACED WITHIN 48 HRS
03 - TO BE FIXED OR REPLACED PRIOR TO NEXT INSPECTION
04 - SEE ADDITIONAL NOTES

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly gathering information, the information submitted is, to the best of my knowledge and beliefs true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing or willful violations.

Signature: _____

Date: _____



Julep Commercial Park East

**CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT J –
SCHEDULE OF INTERIM AND PERMANENT SOIL
STABILIZATION PRACTICES**

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT “J”

SCHEDULE OF INTERIM AND PERMANENT
SOIL STABILIZATION PRACTICES

JULEP COMMERCIAL PARK-EAST

Soil Stabilization Practice	Schedule of Implementation
Silt Fences	Prior to and throughout site development
Mulch Logs	Prior to and throughout site development
Stabilized Construction Entrance	Prior to and throughout site development
Concrete Wash Out	Prior to and throughout site development
Temporary Stabilization	Temporary stabilization of disturbed areas must be initiated immediately whenever any earth disturbing activities have temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
Permanent Restoration and Revegetation	Permanent stabilization of disturbed areas must be initiated immediately whenever earth disturbing activities have permanently ceased



Julep Commercial Park East

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 Cosmo Palmieri
Print Name
Authorized Agent
Title - Owner/President/Other
of Kelly Gray Investments, LLC
Corporation/Partnership/Entity Name
have authorized Dan Brown, P.E.
Print Name of Agent/Engineer
of Malone/Wheeler Inc.
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:



Applicant's Signature

1/13/2022

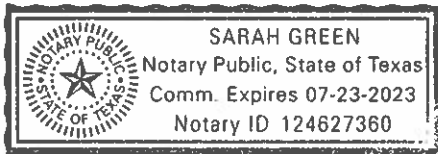
Date

THE STATE OF Texas §

County of Travis §

BEFORE ME, the undersigned authority, on this day personally appeared Cosmo Palmieri 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 14 day of January, 2022.


NOTARY PUBLIC

Sarah Green

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 7/23/23



Julep Commercial Park East

APPLICATION FEE FORM (TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Julep Commercial Park-East

Regulated Entity Location: 14174 W US HWY 290 Austin, Texas 78737

Name of Customer: Kelly Gray Investments, LLC

Contact Person: Aaron Googins

Phone: 512-809-5118

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☒ Hays

☐ Travis

☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	7.16 Acres	\$ 5,000
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: _____



Date: 7/12/2024

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

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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



Julep Commercial Park East

CORE DATA FORM (TCEQ-10400)



TCEQ Use Only

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

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
2. Customer Reference Number (If Issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (If Issued)
CN		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		09/28/21	
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				If new Customer, enter previous Customer below:	
KELLY GRAY INVESTMENTS LLC					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	
0701685622		30118452884		742765168	
10. DUNS Number (if applicable)					
11. Type of Customer: <input type="checkbox"/> Corporation <input type="checkbox"/> Individual <input type="checkbox"/> Partnership: <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited					
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Other:					
12. Number of Employees <input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher					
13. Independently Owned and Operated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:					
15. Mailing Address: 6907 N CAPITAL OF TEXAS HWY STE 300					
City: AUSTIN State: TEXAS ZIP: 78731 ZIP + 4:					
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				AARONGOOGINS@OUTLOOK.COM	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	
(512)809-5118				() -	

SECTION III: Regulated Entity Information

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

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

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	14174 W US HWY 290 AUSTIN, TEXAS 78737										
26. Nearest City	DRIPPING SPRINGS				State	TEXAS		Nearest ZIP Code	78737		
27. Latitude (N) In Decimal:	30.196770			28. Longitude (W) In Decimal:	-98.011709						
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds						
30	11	48.372	-98	0	42.1524						
29. Primary SIC Code (4 digits)	653108		30. Secondary SIC Code (4 digits)			31. Primary NAICS Code (5 or 6 digits)	531190		32. Secondary NAICS Code (5 or 6 digits)		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)											
Mixed-use commercial											
34. Mailing Address:	6907 N CAPITAL OF TEXAS HWY STE 300										
	City	AUSTIN	State	TX	ZIP	78731	ZIP + 4				
35. E-Mail Address:		AARONGOOGINS@OUTLOOK.COM									
36. Telephone Number			37. Extension or Code			38. Fax Number (If applicable)					
(512) 809-5118						() -					

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


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

SECTION IV: Preparer Information

40. Name:	DAN BROWN			41. Title:	ENGINEER		
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address				
(512)899-0601	232	(512)899-0655	DANB@MALONEWHEELER.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:	KELLY GRAY INVESTMENTS, LLC		Job Title:		
Name (In Print):	COSMO PALMER			Phone:	(512)637 3682
Signature:				Date:	1/13/2022



Environmental Services, Inc.

**GEOLOGIC ASSESSMENT
APPROXIMATELY 11.27-ACRE JULEP COMMERCIAL PARK TRACT
14131 TRAUTWEIN ROAD AND 128 WHIRLAWAY DRIVE
AUSTIN, HAYS COUNTY, TEXAS
HJN 22175 GA**

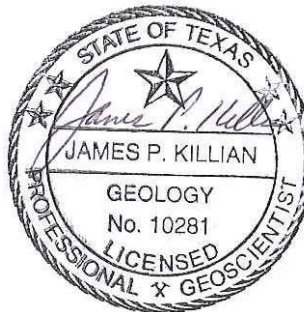
Note: Submitted 7.16 acres being a part of above described 11.27 acre tract

PREPARED FOR:

**KELLY GRAY INVESTMENTS LLC
AUSTIN, TEXAS**

PREPARED BY:

**HORIZON ENVIRONMENTAL SERVICES, INC.
TBPGE FIRM REGISTRATION NO. 50488**



MAY 2022

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II. ATTACHMENTS:

- A GEOLOGIC ASSESSMENT TABLE
- B STRATIGRAPHIC COLUMN
- C DESCRIPTION OF SITE GEOLOGY
- D SITE GEOLOGIC MAP
- E SUPPORTING INFORMATION
- F ADDITIONAL SITE MAPS
- G SITE PHOTOGRAPHS

Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Geologist: James Killian

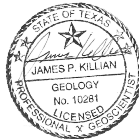
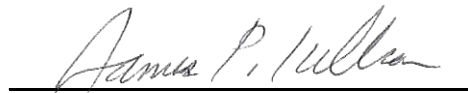
Telephone: 512-328-2430

Date: 3 May 2022

Fax: 512-328-1804

Representing: Horizon Environmental Services, Inc. and TBPG Form Registration No. 50488
(Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: Approximately 11.27-acre Julep Commercial Park Tract; 14131 Trautwein Road and 128 Whirlaway Drive, Austin, Hays County, Texas

Project Information

1. Date(s) Geologic Assessment was performed: 25 April 2022

2. Type of Project:

☒ WPAP
☒ SCS

☐ AST
☐ UST

3. Location of Project:

☐ Recharge Zone
☐ Transition Zone
☐ Contributing Zone within the Transition Zone

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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
Real-Comfort-Doss complex, 1-8% slopes (RcD)	D	3.5

Soil Name	Group*	Thickness(feet)

** Soil Group Definitions (Abbreviated)*

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

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
Applicant's Site Plan Scale: 1" = 400'
Site Geologic Map Scale: 1" = 400'
Site Soils Map Scale (if more than 1 soil type): 1" = 300'
9. Method of collecting positional data:
 - ☒ Global Positioning System (GPS) technology.
 - ☐ Other method(s). Please describe method of data collection: _____

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.
12. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- ☐ Geologic or manmade features were not discovered on the project site during the field investigation.
13. ☐ The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- ☒ There are 1 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- ☐ The wells are not in use and have been properly abandoned.
- ☐ The wells are not in use and will be properly abandoned.
- ☒ The wells are in use and comply with 16 TAC Chapter 76.
- ☐ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

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

ATTACHMENT A
GEOLOGIC ASSESSMENT TABLE

**ATTACHMENT B
STRATIGRAPHIC COLUMN**

Geologic Unit	Hydrologic Unit	Approx. Thickness at Project Site (ft)	Elevation (ft msl)	Depth (ft)
			1274	0
Fort Terrett Member (Kft)	Edwards Aquifer	40		
			1234	40
Upper Glen Rose Formation (Kgru)	Upper Trinity Aquifer	350		
			884	390

Note: Unit elevation and thickness given with respect to a ground surface elevation of 1274 feet near the northwest corner of the subject site.

**ATTACHMENT C
DESCRIPTION OF SITE GEOLOGY**

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

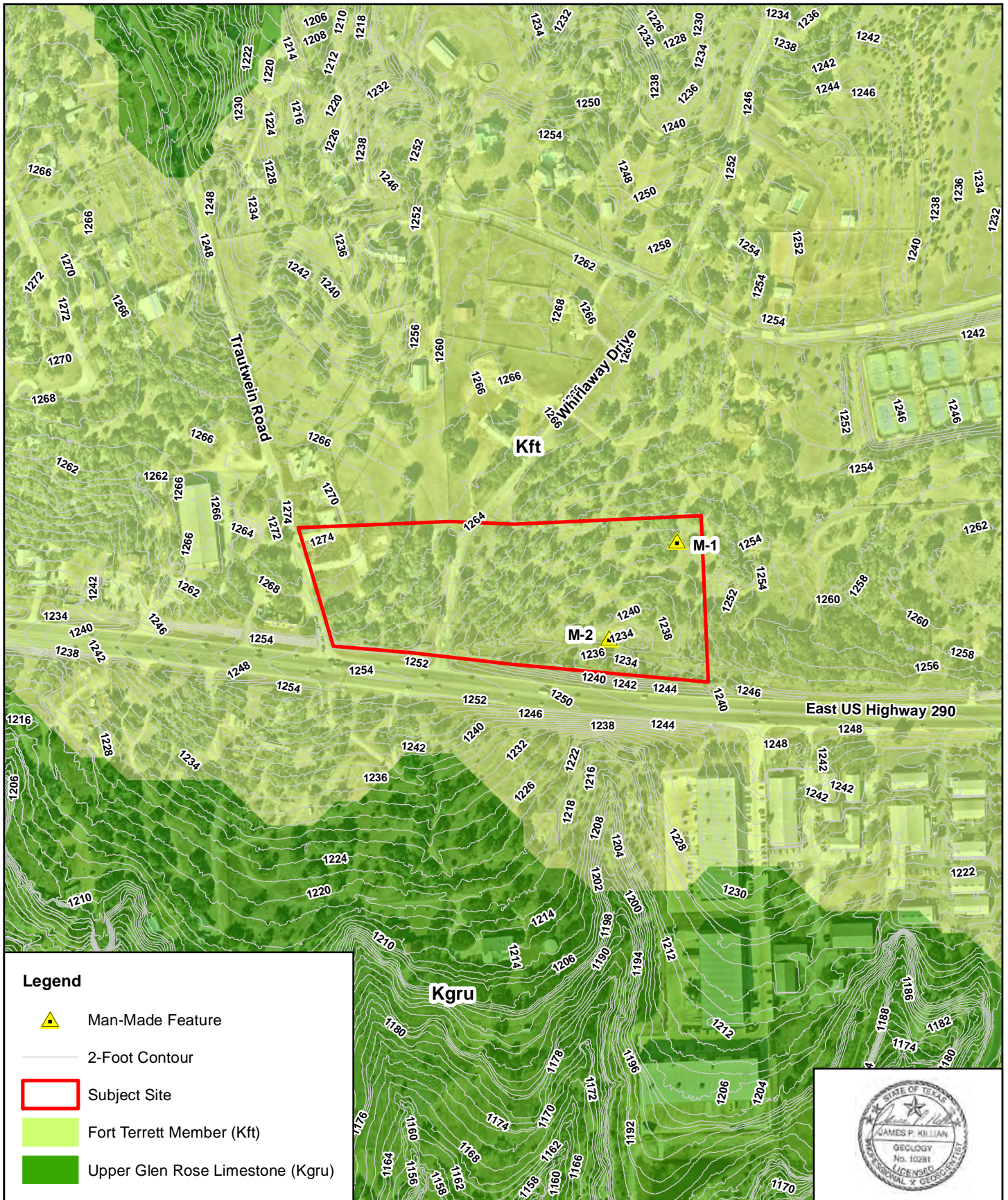
A geologic assessment of approximately 11.27 acres located at 14131 Trautwein Road and 128 Whirlaway Drive, Austin, Hays County, Texas, was conducted pursuant to Texas rules for regulated activities in the Edwards Aquifer Contributing Zone (EACZ) (30 TAC 213). The subject site consists of mixed rangeland and woodlands. Assessment findings were used to develop recommendations for site construction measures intended to be protective of water resources at the subject site and adjacent areas.

The entire subject site is located within the EACZ, as defined by the Texas Commission on Environmental Quality (TCEQ). The Contributing Zone of the Edwards Aquifer includes all the watersheds that feed runoff into the rivers and streams that flow over the Recharge Zone (TCEQ, 2005). TCEQ rules regulate activities in the portions of the Contributing Zone that are within the counties already regulated by the Edwards Aquifer rules. These areas are generally north and west of the Recharge Zone.

The subject site is completely underlain by the Fort Terrett Member (Kft) (UT-BEG, 1972), which has an estimated maximum thickness of about 40 feet thick.

No naturally occurring geologic features and 2 man-made features (M-1 and M-2) were identified at this site. Further information pertaining to the man-made features is presented in the following Attachments D, E, and F. Photographs of the subject site and man-made features are presented in Attachment G.

**ATTACHMENT D
SITE GEOLOGIC MAP**



Horizon
Environmental Services, Inc.

Date:	04/29/2022
Drawn:	KRW
HJN NO:	22175 GA
Source:	Nearmap, 2022; StratMap, 2017; TWSC, 2014

Attachment D
Site Geologic Map
Julep Commercial Park
Trautwein Road and Whirlaway Drive
Austin, Hays County, Texas



0 200 400
Feet

**ATTACHMENT E
SUPPORTING INFORMATION**

1.0 INTRODUCTION AND METHODOLOGY

This report and any proposed abatement measures are intended to fulfill Texas Commission on Environmental Quality (TCEQ) reporting requirements (TCEQ, 2005). This geologic assessment includes a review of the subject site for potential aquifer recharge and documentation of general geologic characteristics for the subject site. Horizon Environmental Services, Inc. (Horizon) conducted the necessary field and literature studies according to TCEQ *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (TCEQ, 2004).

In addition, this report complies with TCEQ's "Optional Enhanced Measures (OEM) for the Protection of Water Quality in the Edwards Aquifer (Revised)" (TCEQ, 2007) for new development in areas subject to the TCEQ Edwards Aquifer Rules (30 TAC Chapter 213). These measures provide a higher level of water quality protection and may be adopted by those who wish to implement additional measures for environmental protection or to satisfy requirements for agencies other than the TCEQ. For example, the implementation of these measures may satisfy requirements of the US Fish and Wildlife Service (USFWS) for the proposed development.

Horizon walked transects spaced 50 feet apart, mapped the locations of features using a sub-foot accurate Trimble Geo HX handheld GPS, and posted processed data utilizing GPS Pathfinder Office software, topographic maps, and aerial photographs. Horizon also searched the area around any potential recharge features encountered to look for additional features. When necessary, Horizon removed loose rocks and soil (by hand) to preliminarily assess each feature's subsurface extent while walking transects. However, labor-intensive excavation was not conducted during this assessment. Features that did not meet the TCEQ definition of a potential recharge feature (per TCEQ, 2004), such as surface weathering, karren, or animal burrows, were evaluated in the field and omitted from this report.

The results of this survey do not preclude the possibility of encountering subsurface voids or abandoned test or water wells during the clearing or construction phases of the proposed project. If a subsurface void is encountered during any phase of the project, work should be halted until the TCEQ (or appropriate agency) is contacted and a geologist can investigate the feature.

2.0 ENVIRONMENTAL SETTING

2.1 LOCATION AND GENERAL DESCRIPTION

The subject site consists of approximately 11.27 acres of mixed rangeland and woodlands located adjacent to the northeastern corner of the intersection of Trautwein Road and US Highway 290 (US 290) and Whirlaway Drive and US 290, in Hays County, Texas (Appendix F, Figure 1).

2.2 LAND USE

The subject site is reportedly vacant land. No habitable structures were observed on the site. Trautwein Road borders the site to the west and US 290 forms the southern border of the site. Surrounding lands are generally used for suburban residences and businesses. A portion of an easement for an off-site microwave tower is located in the northwestern corner of the subject site.

2.3 TOPOGRAPHY AND SURFACE WATER

The subject site is situated on gently to moderately sloping terrain within City of Austin–Colorado River watershed (Appendix F, Figures 2 and 3). Surface elevations on the subject site vary from a minimum of approximately 1234 feet above mean sea level (amsl) within an apparent stormwater detention pond (M-2) near the south-central portion of the site to a maximum of approximately 1274 feet amsl near the northwestern property corner (USGS, 1986). Drainage on the site occurs primarily by overland surface flow from northwest to southeast, north to south, and northeast to southwest into the detention pond.

2.4 EDWARDS AQUIFER ZONE

The subject site is found within the Edwards Aquifer Contributing Zone (TCEQ, 2022) (Attachment F, Figure 2).

2.5 SURFACE SOILS

One soil unit is mapped within the subject site (NRCS, 2022) (Appendix F, Figure 4). The soil unit is described in further detail below.

Real-Comfort-Doss complex, 1 to 8% slopes (RcD) consists of shallow, loamy and clayey soils on low hills and ridges on uplands in the Edwards Plateau resource area. Real soil composes 22 to 54% of the complex, Comfort soil is 18 to 40%, and Doss soil is 9 to 39%. The soils in this complex are well-drained and surface runoff is medium to rapid. Permeability is moderate in the Real soil, slow in the Comfort soil, and moderately slow in the Doss soil. Available water capacity is low to very low. Erosion is a moderate hazard, and the rooting zone is shallow. These soils are typically used for rangeland and wildlife habitat. Medium yields of forage can be produced, yet production is limited due to the restricted rooting depth and very low water capacity. These soils are not suited to cropland and poorly suited for use as pastureland. Shallowness, small stones, slope, low strength affecting roads and streets, and corrosivity to uncoated steel are major limitations for urban and recreation uses. Good design and careful installation are required (Batte, 1984).

2.6 WATER WELLS

A review of TCEQ and Texas Water Development Board (TWDB) records revealed no water wells on the subject site and 20 wells within 0.5 miles of the subject site (TCEQ, 2022; TWDB, 2022). According to the TWDB records, all the off-site wells are reportedly completed

within the Trinity Aquifer at total depths ranging from 570 to 1010 feet below surface. Horizon observed 1 well on the subject site (M-1). The private on-site well is in use and appeared to be properly constructed with 6-inch PVC pipe surrounded by 10-inch steel casing.

If the on-site well is not intended for future use, it should be capped or properly abandoned according to the Administrative Rules of the Texas Department of Licensing and Regulation (TDLR), 16 Texas Administrative Code (TAC), Chapter 76. TCEQ publication RG-347, "Landowner's Guide to Plugging Abandoned Water Wells," provides specific guidance. If a well is intended for use, it must comply with 16 TAC §76.

The results of this assessment do not preclude the existence of additional undocumented/abandoned wells on the site. If a water well or casing is encountered during construction, work should be halted near the feature until the TCEQ is contacted.

2.7 GEOLOGY

Literature Review

The subject site is underlain by the Fort Terrett Member (Kft) (UT-BEG, 1972). The Fort Terrett Member consists of limestone and dolomite. The upper quarter comprises porcelaneous aphanitic limestone, collapsed breccia, chert, and recrystallized limestone. The middle of the formation consists of light to dark gray, cherty dolomite, miliolid shell fragments, rudistid limestone, and medium brownish-gray dolomite. In the lower quarter, the unit is nodular limestone, with thin, yellow, *Exogyra texana*-bearing clay at the base. The thickness of the Fort Terrett Member is 150 to 230 feet, thickening southward.

The site Stratigraphic Column is provided as Attachment B, and the Site Geologic Map is Attachment D.

The subject site is not located within the Balcones Fault Zone. Available geologic reports indicate the nearest mapped fault is located approximately 6 miles to the southeast, trending from southwest to northeast (TWSC, 2014).

Field Assessment

Horizon observed two man-made features on the subject site that meet the TCEQ definition of a potential recharge feature, the previously mentioned water well (M-1) and stormwater detention pond (M-2). The locations of these features are shown in the Site Geologic Map, provided as Attachment D. The Geologic Assessment Table (Attachment A) describes those features.

3.0 CONCLUSIONS AND RECOMMENDATIONS

No geologic features were identified at the subject site that would require protection or mitigation pursuant to TCEQ rules for protection of the Edwards Aquifer (30 TAC 213). Two man-made features (M-1 and M-2) were identified at the subject site; however, neither of these features

would not require protection or mitigation pursuant to TCEQ rules for protection of the Edwards Aquifer (30 TAC 213). The site generally appears well-suited to development prospectuses. It should be noted that soil and drainage erosion would increase with ground disturbance. Native grasses and the cobbly content of the soil aid to prevent erosion. Soil and sedimentation fencing should be placed in all appropriate areas prior to any site disturbing activities.

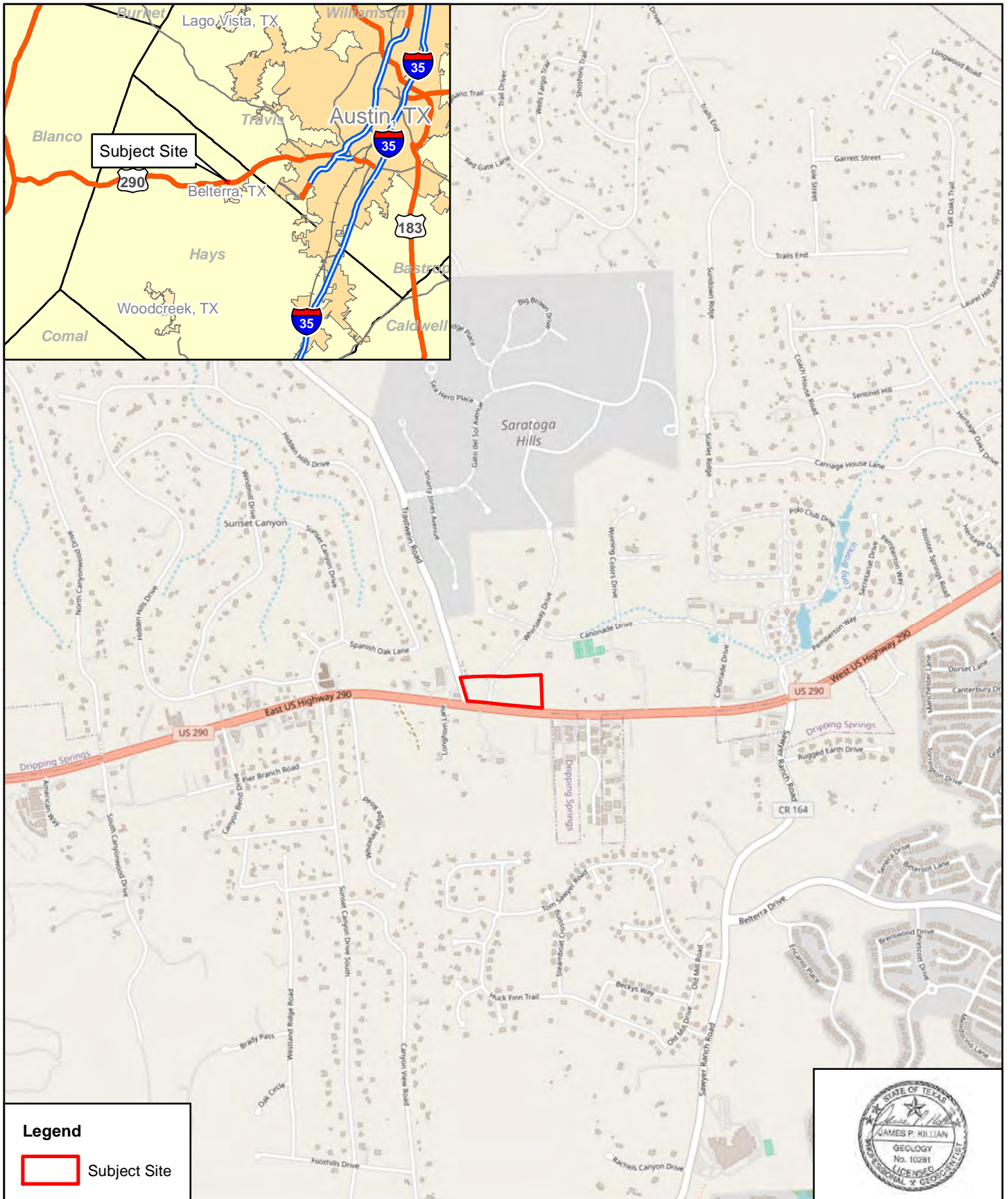
Because the subject site is located over the Edwards Aquifer Contributing Zone, it is possible that subsurface voids underlie the site. If any subsurface voids are encountered during site development, work should halt immediately so that a geologist may assess the potential for the void(s) to provide meaningful contribution to the Edwards Aquifer.

4.0 REFERENCES

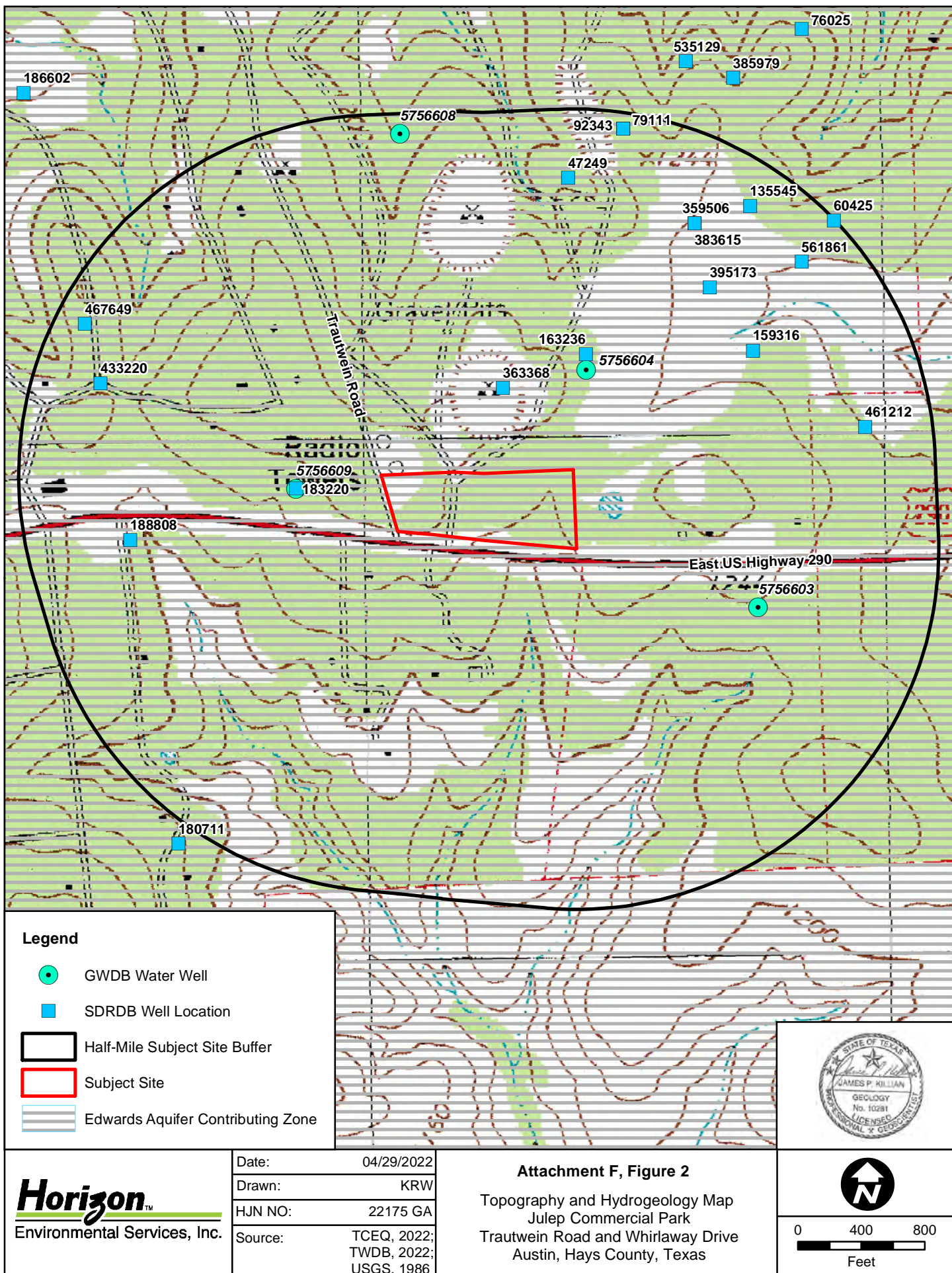
- Batte, Charles D. *Soil Survey of Comal and Hays Counties, Texas*. US Department of Agriculture, Natural Resources Conservation Service (formerly Soil Conservation Service), in cooperation with the Texas Agricultural Experiment Station. 1984.
- (Nearmap) Nearmap US, Inc. Nearmap Vertical™ digital orthographic photograph, <<https://go.nearmap.com>>. Imagery date 17 January 2022.
- (NRCS) US Department of Agriculture, Natural Resources Conservation Service. Web Soil Survey, <<http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>>. Soil map data layer updated 12 September 2019. Accessed 26 April 2022.
- (OSM) OpenStreetMap contributors. OpenStreetMap, <<http://www.openstreetmap.org>>. Available under the Open Database License (www.opendatacommons.org/licenses/odbl). Accessed 26 April 2022.
- (StratMap) Texas Natural Resources Information System, Strategic Mapping Program. 2-foot contours, Hays County, Texas. Map data layer updated 1 January 2017.
- (TCEQ) Texas Commission on Environmental Quality. Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones. Revised October 2004.
- _____. RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices. Revised July 2005.
- _____. Optional Enhanced Measures for the Protection of Water Quality in the Edwards Aquifer (Revised). Appendix A to RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices. September 2007.
- _____. Edwards Aquifer Protection Program. Edwards Aquifer Viewer, <<http://www.tceq.state.tx.us/field/eapp/viewer.html>>. Accessed 26 April 2022.
- (TWDB) Texas Water Development Board. Water Information Integration and Dissemination System. TWDB Groundwater Database, <<https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer>>. Accessed 26 April 2022.
- (TWSC) United States Geological Survey, Texas Water Science Center. Geologic Database of Texas, <<https://txpub.usgs.gov/txgeology/>>. Updated 1 February 2014; Accessed 26 April 2022.
- (UT-BEG) University of Texas-Austin, Bureau of Economic Geology. Report of Investigations, no. 74, p. 198, Rose, P.R., Edwards Group, surface and subsurface, central Texas. 1972.
- _____. C.V. Proctor, Jr., T.E. Brown, J.H. McGowen, N.B. Waechter, and V.E. Barnes. *Geologic Atlas of Texas*, Austin Sheet, Francis Luther Whitney Memorial Edition. 1974; reprinted 1995.

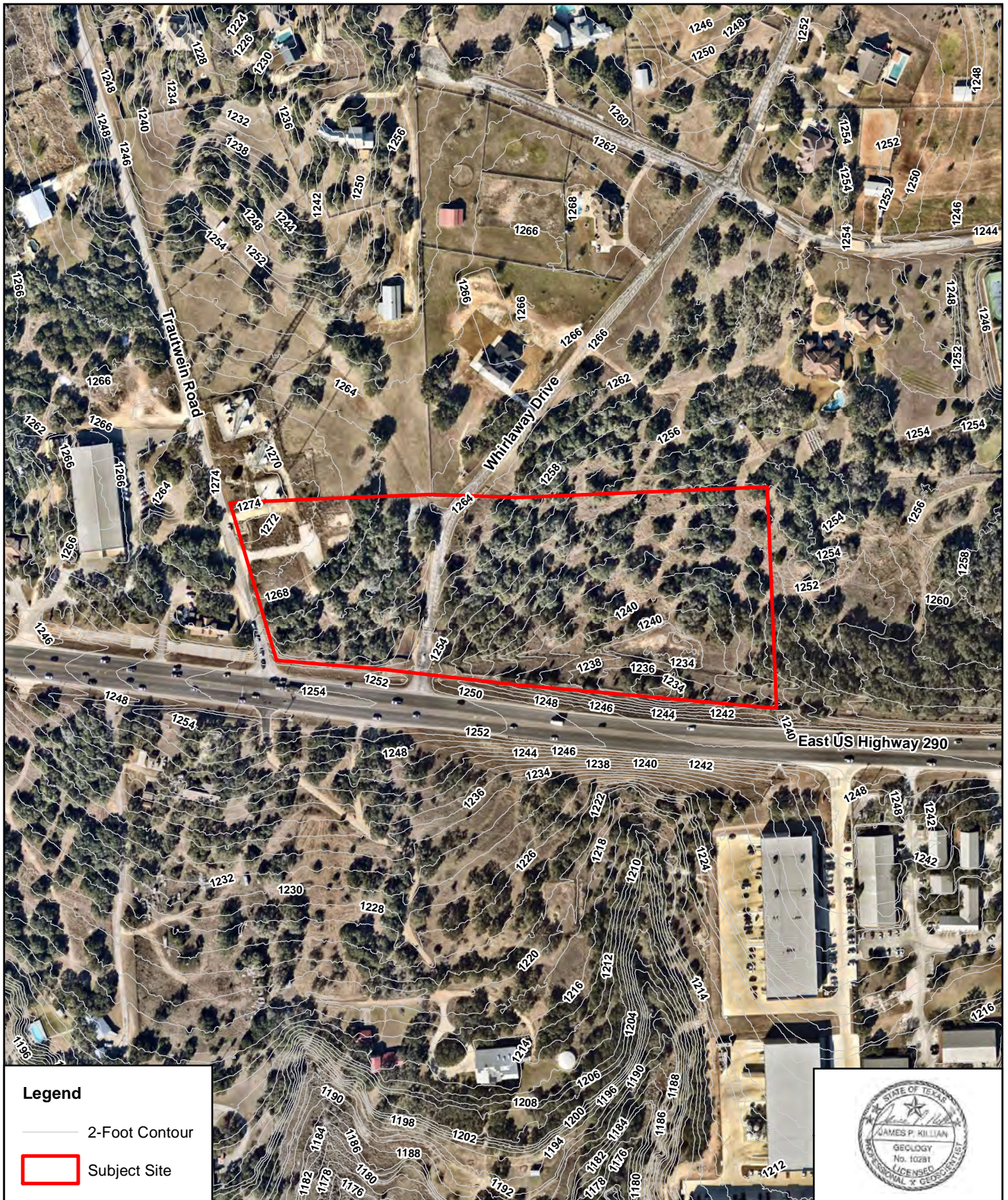
(USGS) US Geological Survey. 7.5-minute series topographic maps, Dripping Springs, Texas, quadrangle. 1986.

ATTACHMENT F
ADDITIONAL SITE MAPS



	Date:	04/29/2022	Attachment F, Figure 1 Vicinity Map Julep Commercial Park Trautwein Road and Whirlaway Drive Austin, Hays County, Texas	 0 1,000 2,000 Feet
	Drawn:	KRW		
	HJN NO:	22175 GA		
	Source:	OSM, 2022		





Legend

— 2-Foot Contour

Subject Site

Horizon
Environmental Services, Inc.

Date: 04/29/2022
Drawn: KRW
HJN NO: 22175 GA
Source: Nearmap, 2022;
StratMap, 2017

Attachment F, Figure 3
Site Topography Map
Julep Commercial Park
Trautwein Road and Whirlaway Drive
Austin, Hays County, Texas



0 150 300
Feet



Legend

- Subject Site
- Soil Unit Boundary

Horizon
Environmental Services, Inc.

Date: 04/29/2022
 Drawn: KRW
 HJN NO: 22175 GA
 Source: Nearmap, 2022;
 NRCS, 2019

Attachment F, Figure 4
 Site Soil Map
 Julep Commercial Park
 Trautwein Road and Whirlaway Drive
 Austin, Hays County, Texas



0 150 300
 Feet

ATTACHMENT G
SITE PHOTOGRAPHS



PHOTO 1
Man-made feature M-1 (water well), facing north



PHOTO 2
Man-made feature M-2 (detention pond), facing northeast

OPTIONAL ENHANCED MEASURES

JULEP COMMERCIAL PARK-EAST

Applicability to Site

This plan is to be reviewed and approved with Optional Enhanced Measures (OEM). OEM approval is required for the site to obtain potable water per the Service and Development Policy of West Travis County Public Utility Agency.

Geologic Assessment

A Geologic Assessment conducted by Horizon Environmental Services has been submitted with this plan.

Sensitive Features

No naturally occurring sensitive features were identified in the attached Geologic Assessment by Horizon Environmental Services. The existing well identified by the Geologic Assessment will be utilized for irrigation.

Sensitive Features Identified During Construction

Sensitive features identified during construction, such as solution cavities and caves, will be protected according to TCEQ requirements.

Caves

No caves were identified during the geologic assessment.

Stream Buffers

No existing waterways are present on site.

Construction

Temporary erosion controls that will be in place during construction are:

1. Silt Fence
2. Rock Berms
3. Concrete Washout
4. Stabilized Construction Entrance

Permanent BMP Implementation

The reduction of 80 percent of the annual Total Suspended Solids load in storm water runoff from the project will be achieved using a batch detention pond.

Permanent water quality controls have been designed to meet the TCEQ requirements and water quality calculations are based on the calculations found in the Optional Enhanced Measures Appendix A to RG-348.

Measures to Protect Stream Morphology

There are no streams present on site. To protect stream morphology downstream of the site, stormwater is detained by stacking water on top of the required water quality volume within the proposed batch detention pond. Due to the function of the proposed batch detention pond, the detention of stormwater within the pond will limit the peak rate of runoff for the 2-year, 24-hour storm to 50% of the undeveloped rate for that event and limit the 10-year, 24-hour storm peak runoff rate to less than that calculated for the undeveloped condition for the same storm conditions. Also, discharges from water quality ponds will be dissipated using rock riprap to prevent localized erosion within the TxDOT roadside ditch which receives the site's discharge. Additionally, erodible elements of the conveyance system for the project will be stabilized to prevent erosion, therefore, measures to protect stream morphology have been provided.