

Operation Liberty Hill

Contributing Zone Plan

TCEQ Application

*Operation Liberty Hill
3737 Ranch Road 1869
Liberty Hill, TX 78642*

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Contributing Zone Plan Checklist

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

 **Contributing Zone Plan Application (TCEQ-10257)**

Attachment A - Road Map

Attachment B - USGS Quadrangle Map

Attachment C - Project Narrative

Attachment D - Factors Affecting Surface Water Quality

Attachment E - Volume and Character of Stormwater

Attachment F - Suitability Letter from Authorized Agent (if OSSF is proposed)

Attachment G - Alternative Secondary Containment Methods (if AST with an alternative method of secondary containment is proposed)

Attachment H - AST Containment Structure Drawings (if AST is proposed)

Attachment I - 20% or Less Impervious Cover Declaration (if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site)

Attachment J - BMPs for Upgradient Stormwater

Attachment K - BMPs for On-site Stormwater

Attachment L - BMPs for Surface Streams

Attachment M - Construction Plans


Attachment N - Inspection, Maintenance, Repair and Retrofit Plan

Attachment O - Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs

Attachment P - Measures for Minimizing Surface Stream Contamination

– **Storm Water Pollution Prevention Plan (SWPPP)**

-OR-

 **Temporary Stormwater Section (TCEQ-0602)**

Attachment A - Spill Response Actions

Attachment B - Potential Sources of Contamination

Attachment C - Sequence of Major Activities

Attachment D - Temporary Best Management Practices and Measures

Attachment E - Request to Temporarily Seal a Feature, if sealing a feature

Attachment F - Structural Practices


Attachment G - Drainage Area Map

Attachment H - Temporary Sediment Pond(s) Plans and Calculations

Attachment I - Inspection and Maintenance for BMPs

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

 **Copy of Notice of Intent (NOI)**

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



Application Fee Form (TCEQ-0574)



Check Payable to the "Texas Commission on Environmental Quality"



Core Data Form (TCEQ-10400)

***EDWARDS AQUIFER APPLICATION COVER PAGE
TCEQ FORM 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: Operation Liberty Hill					2. Regulated Entity No.:					
3. Customer Name: Larry J. Gabbel					4. Customer No.:					
5. Project Type: (Please circle/check one)	New		Modification			Extension		Exception		CZP Modification
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification		Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential		Non-residential			8. Site (acres):			2.113 Acres	
9. Application Fee:	\$4,000.00		10. Permanent BMP(s):				Sand Filter Systems			
11. SCS (Linear Ft.):	n/a		12. AST/UST (No. Tanks):				n/a			
13. County:	Williamson		14. Watershed:				South Fork San Gabriel River			

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

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

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

Larry J Gabel

~~Print Name of Customer/Authorized Agent~~

~~Signature of Customer/Authorized Agent~~

Date

11/4/25

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):

CONTRIBUTING ZONE PLAN APPLICATION
TCEQ FORM 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: Javier Barajas, P.E.

Date: 8/25/2025

Signature of Customer/Agent:



Regulated Entity Name: Operation Liberty Hill

Project Information

1. County: Williamson
2. Stream Basin: South Fork San Gabriel River
3. Groundwater Conservation District (if applicable): n/a
4. Customer (Applicant):

Contact Person: Larry J. Gabel

Entity: Operation Liberty Hill

Mailing Address: 3737 Ranch Road 1869

City, State: Liberty Hill, TX

Telephone: (512) 844-9884

Email Address: larryjgabel@gmail.com

Zip: 78642

Fax: _____

5. Agent/Representative (If any):

Contact Person: Javier Barajas, P.E.

Entity: Trine Engineering, PLLC

Mailing Address: 2620 Choctaw Trail

City, State: Austin, TX

Zip: 78745

Telephone: (512) 913-5080

Fax: (512) 628-3528

Email Address: jbarajas@trineengineering.com

6. Project Location:

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

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.

The project is locate at 3737 Ranch Road 1869, Liberty Hill, Texas 78642. Approximately, 0.23 miles west of the Ranch Road 1869 with the Main Street intersection.

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 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: 366
- Commercial
- Industrial
- Other: Public-Community Facility

13. Total project area (size of site): 2.113 Acres

Total disturbed area:
2.29 Acres

14. Estimated projected population: 80

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	15,270	÷ 43,560 =	0.35
Parking	41,968	÷ 43,560 =	0.96
Other paved surfaces	2,198	÷ 43,560 =	0.05
Total Impervious Cover	59,436	÷ 43,560 =	1.364

Total Impervious Cover $\frac{1.364}{2.113} \times 100 = 64.57\%$ 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.

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 Liberty Hill Wastewater (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 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" = 40'.
- 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 Map 48491C0245F, eff date 12/20/2019.
- 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.

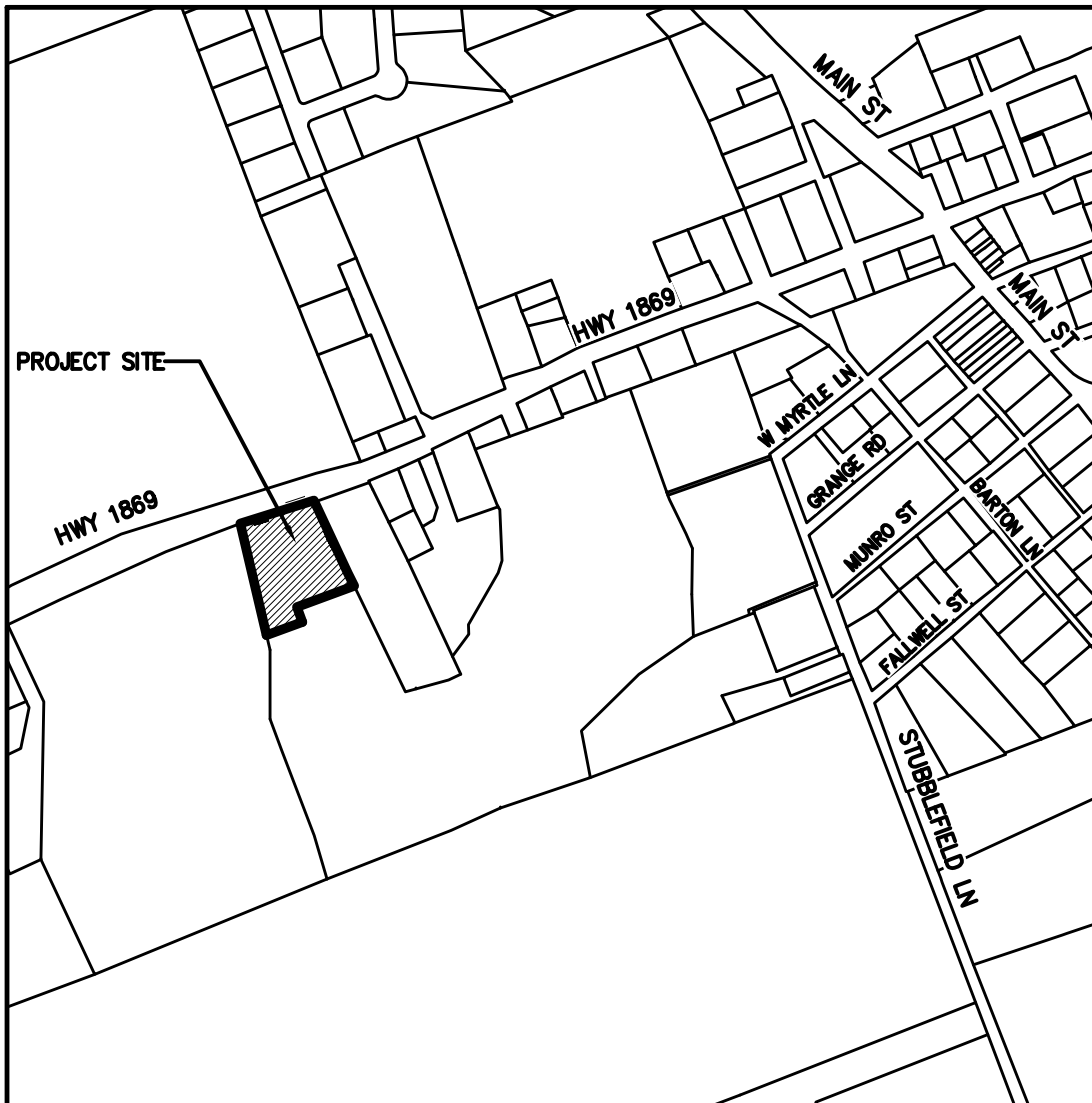
*Attachment A:
Road Map*

The proposed project, Operation Liberty Hill, is located within the Liberty Hill City Limits. Operation Liberty Hill will be located at 3737 Ranch Road 1869 Liberty Hill, approximately 0.23 miles west of the Ranch Road intersection with Main Street.

This attachment contains a Road Map that depicts the proposed tract for the Operation Liberty Hill Development.

OPERATION LIBERTY HILL

3737 RANCH TO MARKET 1869
LIBERTY HILL, TEXAS 78642



PROJECT LOCATION MAP
N.T.S.

*Attachment B:
USGS Quadrangle Map*

This attachment contains a copy of the U.S. Department of the Interior, U.S. Geological Survey, 7½ minute USGS Quadrangle Map, corresponding to the project, Liberty Hill, Texas Quadrangle Map (Scale: 1"=2000').

The project site boundary and map name are identified on the exhibit.

Attachment C: Project Narrative

Introduction

The proposed project, Operation Liberty Hill, will be located at 3737 Ranch Road 1869 Liberty Hill, Texas 78642. Operation Liberty Hill is a nonprofit organization based in Liberty Hill, Texas. It provides various services to the community, including a food pantry, thrift store, financial assistance, and spiritual care. They rely on donations and volunteers to support their programs and help those in need.

The proposed development will be on the 2.113-acres of land, Lot 3, Block 1, Hidden Lane Glen - Minor Final Plat, a subdivision in Williamson County, Texas, according to the map or plat thereof recorded in Document No. 2022030821, Official Public Records of Williamson County, Texas.

The limits-of-construction for the apartment complex will be 2.29-acres in size and include an off-site area from where water service to the site will be run; the waterline is located opposite Ranch Road 1869.

Site and Offsite Areas

The lot being developed is 2.113-acres in size, currently has a concrete driveway and gravel drive that leads to an existing old residence located on the adjacent lot located adjacent and to the south, Lot 2 of the Hidden Lane Glen Subdivision (Lots 2 and 3 were one tract of land prior to the subdivision). Ingress and egress from the existing residence will continue to be off Ranch Road 1869 and will be through an access easement that was put in place with the plat. The subject project contains mature trees and native grasses.

All the runoff from the proposed development will be conveyed to the proposed Sand Filter System BMP for treatment prior to being released from the proposed development. There is a ridge on the site that directs part of the site's flow in a north-west direction. The rest of the site drains in a south-east direction. The site has been graded to convey rainfall runoff from the proposed improvements to the BMP. There is a small area of the driveway that is being free released; however, we are overtreating that small area in the proposed BMP.

There is no offsite runoff that comes onto the site.

Impervious Cover

The proposed development will consist of a single building with a footprint that will be 15,270 square feet in size. The Impervious cover outside of the building envelope included sidewalks, parking spaces, truck loading dock, and circulation drive. The permanent water quality BMP will be a Sand Filter System

designed as outlined in the TCEQ RG-348 – Complying with the Edwards Aquifer Rules, Technical Guidance on Best Management Practice, revised July 2005.

Below are the Calculations Summary that show that treatment is achieved for the Operation Liberty Hill improvement by the proposed Sand Filter System. Drainage Basin Area Calculations are broken out for each of the Drainage Basins. The number of drainage runoff directions includes two; however, TSS removal can be achieved by the single proposed Sand Filter System. The proposed Sand Filter Systems BMP has a removal efficiency of 89 percent. Detailed calculations per the Total Suspended Solids (TSS) Removal Calculation Spreadsheet follow the summary:

Required Load Removal Based on the Entire Project:

Total Project Area:	2.11 ac.
Predevelopment Impervious Cover:	0.10 ac.
Total Post Development Impervious Cover:	1.36 ac.
Total Post Impervious Cover Fraction:	0.65
Total Project TSS Load Removal Required	1,104 lbs.

Drainage Basin Outfall Area – Sand Filter:

Total Area to BMP/outfall area	1.93 acres
Predevelopment Impervious Area within outfall area	0.10 acres
Post-Development Impervious Area within outfall area	1.36 acres.
Post-Impervious Cover Fraction within outfall area	0.71
TSS Load Removal Required 80% TSS, (L_M)	1,104 lbs.
Max achievable TSS Load Removal by BMP, (L_R)	1,353 lbs.
Desired TSS Removal Rate for BMP, (L_M)	1,160 lbs.
Total Capture Volume Required plus 20%	5,953 cf.
Total Capture Volume Provided in BMP	5,904 cf.

L_M TOTAL PROJECT (MIN. REQUIRED REMOVAL RATE) 1,104 lbs.

L_M TOTAL DESIRED TSS REMOVAL RATE (REMOVAL BEING PROVIDED) 1,160 lbs.

The water quality pond is designed to treat the runoff generated from the Operation Liberty Hill improvements as listed above and are designed as outlined in TCEQ RG-348 – Complying with the Edwards Aquifer Rules, Technical Guidance on Best Management Practice, revised July 2005. An 80% removal rate will be achieved in the total area to the BMP. Runoff from the proposed improvements will be conveyed to the proposed Sand Filter System via overland flow. The TSS removal efficiency is 89% per Table 3-1--Summary of Permanent Structural BMPs with Verified Performance, TCEQ RG-348, Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices, revised July 2005.

Drainage and Water Quality Permanent BMP

Runoff from all, but a small driveway area, of the Operation Liberty Hill proposed impervious cover will be routed overland to the Sand Filter System. The proposed permanent BMP will meet the pollutant reduction requirements for stormwater runoff contained in the Edwards Aquifer Rules (30 TAC Chapter 213) that regulates activities having the potential to pollute the Edwards Aquifer and associated surface waters.

An RG-348 identified BMP that is appropriate for the Edwards Aquifer region and its TSS removal efficiency will be used to treat runoff generated from the proposed site's impervious cover; based on the manual and the BMPs listed, a Sand Filter System with a removal efficiency of 89% was selected for the Operation Liberty Hill project.

The Sand Filter System proposed is configured as a dual basin facility (sedimentation and filtration) that captures stormwater runoff captures and removes larger suspended solids and trash in the sedimentation basin and filters that runoff through a bed of sand in the floor of the filtration basin. The goal of the sand filter is to remove sediment and pollutants from the first flush of pavement and impervious area runoff. The filtration of nutrients, organics and coliform bacteria is enhanced by a mat of bacteria slime that develops during normal operations. One of the main advantages of sand filters is their adaptability; they can be used in areas of thin soil, high evaporation rates, low-soil infiltration rates, in limited space areas and where groundwater is to be protected (RG-348, revised July 2005).

Proposed Site Use

The site is a 2.113-acre tract of land found at 3737 Ranch Road 1869 Liberty Hill, Texas and will be used for Operation Liberty Hill. Operation Liberty Hill is a nonprofit organization based in Liberty Hill, Texas. It provides various services to the community, including a food pantry, thrift store, financial aid, and spiritual care. They rely on donations and volunteers to support their programs and help those in need. The proposed single building will be 15, 270 square feet in size. Added improvements that will serve the site are dry and wet utilities, circulation drive, loading dock, parking and stormwater pond and water quality permanent BMP.

Site History

Lot 3 is a 2.113-acre Lot that was created with the Hidden Lane Glen Subdivision, a subdivision created from a Tract of Land out of the Joseph M. Glasscock Survey Abstract No. 254 in Williamson County, Texas. Lot 2 and 3 were a single tract prior to subdivision. Per the Williamson County Appraisal District public access property search website, the land was, prior to subdivision, classified by State Code as a Farm and Ranch Improvements Residence.

Earlier Development

The subject lot is currently as described above under the Site History Heading; however, once subdivided, Lot 3 is a vacant lot with an existing gravel drive traversing it that leads to the residence and other buildings located on Lot 2 of the Hidden Lane Glen Subdivision.

Areas to be Demolished.

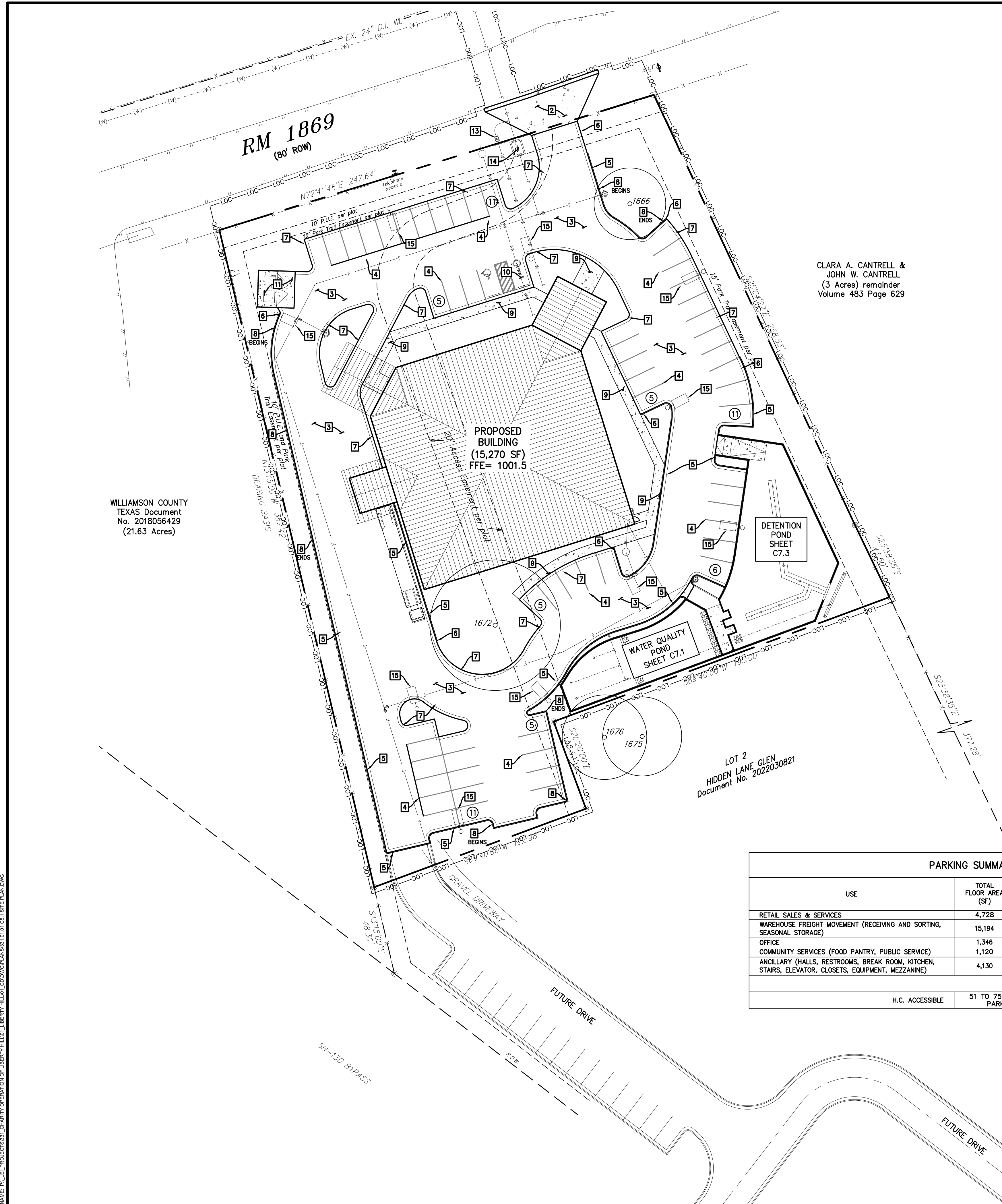
The only demolition that will need to be done is the Ranch Road 1869 existing driveway and culvert. There is nothing to be demolished on the subject lot.

Existing Project Site Conditions

The tract is currently undeveloped and holds a gravel driveway that leads to the old farmhouse and buildings found on Lot 2 of the Hidden Lane Glen Subdivision.

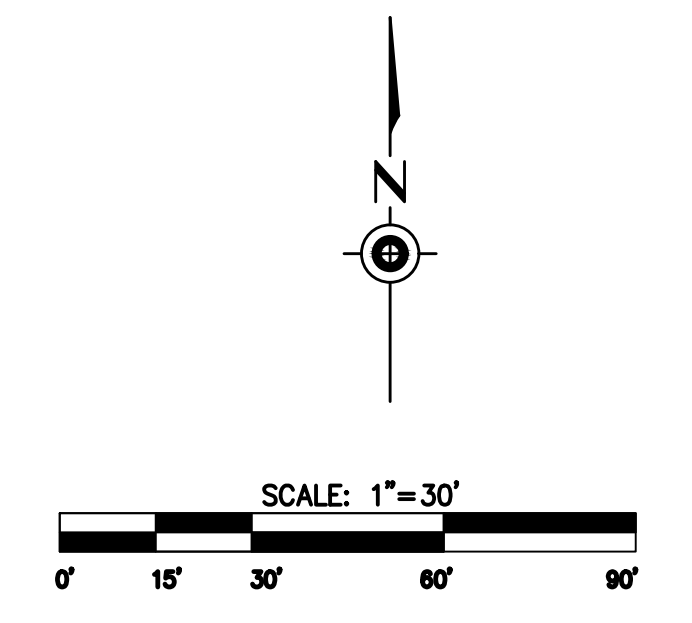
Type of Project

The proposed project will consist of a public-community development of Operation Liberty Hill on the 2.113-acre lot. The proposed improvements will consist of a single building, dry and wet utilities (water, electric, wastewater, telephone, cable), circulation drive, parking and Sand Filter System BMP. Included is an overall site plan and TCEQ TSS Removal Calculations of the Sand Filter System BMP.



CLARA A. CANTRELL &
JOHN W. CANTRELL
(3 Acres) remainder
Volume 483 Page 629

WILLIAMSON COUNTY
TEXAS Document
No. 2018056429
(21.63 Acres)



SITE PLAN KEYNOTES	
ITEM	DESCRIPTION
2	CONSTRUCT CONCRETE ACCESS DRIVEWAY; TxDOT STANDARD SHEET C5.4; SEE DIMENSIONAL PLAN & GRADING PLAN FOR SPOT ELEVATIONS.
3	CONSTRUCT ASPHALTIC PAVEMENT PER GEOTECHNICAL RECOMMENDATIONS; SEE DIMENSIONAL PLAN & GRADING PLAN FOR SPOT ELEVATIONS.
4	INSTALL 4 INCH SOLID WHITE STRIPE
5	CONSTRUCT CONCRETE CURB & GUTTER PER DETAIL ON SHEET C5.4; SEE GRADING PLAN FOR SPOT ELEVATIONS
6	CONSTRUCT CONCRETE CURB END TRANSITION (REFER TO DETAIL 12 ON SHEET C5.4)
7	CONSTRUCT CONCRETE RIBBON CURB PER DETAIL ON SHEET C5.4; SEE GRADING PLAN FOR SPOT ELEVATIONS
8	CONSTRUCT CONCRETE DEEP CURB PER DETAIL 11 ON SHEET C5.4; SEE GRADING PLAN FOR SPOT ELEVATIONS
9	CONSTRUCT CONCRETE SIDEWALK PER DETAIL ON SHEET C5.4; SEE DIMENSIONAL SITE PLAN & GRADING PLAN
10	CONSTRUCT A HANDICAP PARKING SPACE (REFER TO DETAILS 1, 2, 3 & 4 ON SHEET C5.4) REFER TO GRADING PLAN FOR SPOT ELEVATIONS
11	CONSTRUCT CONCRETE PAD FOR DUMPSTER; THICKNESS & REINFORCED BY GEOTECHNICAL RECOMMENDATIONS, SEE DIMENSIONAL SITE PLAN & GRADING PLAN FOR SPOT ELEVATIONS; FOR DUMPSTER ENCLOSURE SEE DETAILS ON SHEET C5.5
12	NOT USED
13	INSTALL A WATER LINE SERVICE
14	INSTALL A FIRE LINE SYSTEM
15	LIGHT POLE (REFER TO PHOTOMETRIC PLAN AND NOTE 13 THIS SHEET)

LEGEND	
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	EASEMENT & SETBACKS
	LIMITS OF CONSTRUCTION
	EDGE OF PAVEMENT
	WIRE FENCE
	EX. WATER LINE
	EX. WASTEWATER LINE
	WATER LINE
	WASTEWATER LINE
	FIRE LANE
	WATER METER
	FIRE HYDRANT
	MANHOLE

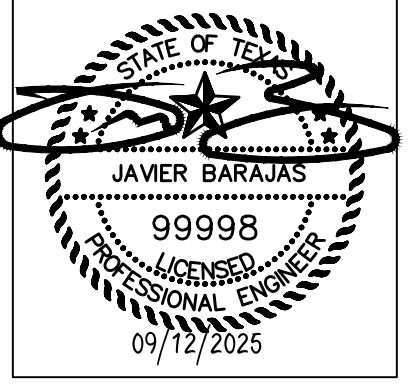
IMPERVIOUS COVER CALCULATION								
SITE AREA:	2.11	AC	92,052.44	SF				
	EXISTING	%	DEMO	%	PROPOSED	%	TOTAL	%
BUILDING COVERAGE	0.00	0.00	0.00	0.00	15,270.00	16.59	15,270.00	16.59
PAVEMENT	0.00	0.00	0.00	0.00	41,968.00	45.59	41,968.00	45.59
CONCRETE	0.00	0.00	0.00	0.00	2,197.7	2.39	2,197.70	2.39
GRAVEL	4,176.00	4.54	4,176.00	4.54	0.00	0.00	0.00	0.00
	4,176.00	4.54	4,176.00	4.54	59,435.70	64.57	59,435.70	64.57

- GENERAL NOTES:**
- ALL WORK AND MATERIAL SHALL COMPLY WITH ALL STATE OF TEXAS LOCAL GOVERNMENT CODES, TEXAS STANDARD SPECIFICATIONS 2004, O.S.H.A. STANDARDS AND LOCAL CITY ADOPTED STANDARDS AND SPECIFICATIONS.
 - PAVEMENT CROSS SECTIONS PER STRUCTURAL AND OR GEOTECHNICAL RECOMMENDATIONS.
 - MINIMUM VERTICAL CLEARANCE, INCLUDING TREE LIMBS FOR DRIVEWAY AND INTERNAL FIRE ACCESS, LARGE VEHICLE CIRCULATION AREAS SHALL BE NO LESS THAN 14'-0".
 - CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SIDEWALKS, EXIT DOORS, PRECISE BUILDING DIMENSIONS, ARCHITECTURAL FEATURES AND EXACT BUILDING UTILITY SERVICE LOCATIONS.
 - ALL SITE UTILITY LINES ARE PROPOSED TO BE LOCATED UNDERGROUND.
 - ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE SITE PLAN AMENDMENT AND APPROVAL BY THE WILLIAMSON COUNTY DEVELOPMENT SERVICE & DRAINAGE DEPARTMENT.
 - APPROVAL OF THIS SITE PLAN DOES NOT INCLUDE BUILDING AND FIRE CODE APPROVAL NOR BUILDING PERMIT APPROVAL.
 - WATER AND WASTEWATER SERVICE WILL BE BY CITY OF LIBERTY HILL.
 - A DEVELOPMENT PERMIT MUST BE ISSUED PRIOR TO AN APPLICATION FOR BUILDING PERMIT FOR NON-CONSOLIDATED OR PLANNING COMMISSION APPROVED SITE PLANS.
 - FOR DRIVEWAY CONSTRUCTION: THE OWNER IS RESPONSIBLE FOR ALL COSTS FOR RELOCATION OF, OR DAMAGE TO UTILITIES.
 - FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, A ROW EXCAVATION PERMIT MAY BE REQUIRED FROM WILLIAMSON COUNTY.
 - APPROVAL OF THESE PLANS BY WILLIAMSON COUNTY INDICATES COMPLIANCE WITH APPLICABLE CITY REGULATIONS ONLY. APPROVAL BY OTHER GOVERNMENTAL ENTITIES WILL BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR DETERMINING WHAT ADDITIONAL APPROVALS MAY BE NECESSARY.
 - CONTACT FACILITY SOLUTIONS GROUP (FSG) FOR EXTERIOR LIGHTING MATERIAL, SPECIFICATIONS, CUT SHEETS AND PRICING FOR THIS PROJECT:

FSG (REED HUNTER)
610 WEST POWELL
AUSTIN, TEXAS 78735
(512) 835-4971, EXT 18245

PARKING SUMMARY				
USE	TOTAL FLOOR AREA (SF)	PARKING RATIO (SPACE/AREA)	SPACES REQUIRED	SPACES PROVIDED
RETAIL SALES & SERVICES	4,728	1:250	19	19
WAREHOUSE FREIGHT MOVEMENT (RECEIVING AND SORTING, SEASONAL STORAGE)	15,194	1:500	30	30
OFFICE	1,346	1:250	6	6
COMMUNITY SERVICES (FOOD PANTRY, PUBLIC SERVICE)	1,120	1:250	4	4
ANCILLARY (HALLS, RESTROOMS, BREAK ROOM, KITCHEN, STAIRS, ELEVATOR, CLOSETS, EQUIPMENT, MEZZANINE)	4,130	N/A		
TOTAL			59	59
H.C. ACCESSIBLE	51 TO 75 = 3 ACCESSIBLE PARKING SPACES			

NO.	REVISION/ISSUE	DATE



CIVIL SURVEYING CONSTRUCTION

TRINE ENGINEERING

SITE PLAN
OPERATION LIBERTY HILL
3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No. **11** of **30**
DATE: 09/12/2025
C5.1
PROJECT No: 331.01.01

2025-3-SDP

P:\PROJECTS\2025\3\SDP\331.01.01\01 SITE PLAN.DWG
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 DATE PLOTTED: 09/12/2025 10:50:29 AM
 PLOTTER: HP DesignJet T1200

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 indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

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

where: $L_{M\text{TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

County =	Williamson	
Total project area included in plan * =	2.11	acres
Predevelopment impervious area within the limits of the plan * =	0.10	acres
Total post-development impervious area within the limits of the plan* =	1.36	acres
Total post-development impervious cover fraction * =	0.65	
P =	32	inches

$L_{M\text{TOTAL PROJECT}}$ = **1104** lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = **2**

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

Drainage Basin/Outfall Area No. =	1	
Total drainage basin/outfall area =	1.93	acres
Predevelopment impervious area within drainage basin/outfall area =	0.10	acres
Post-development impervious area within drainage basin/outfall area =	1.36	acres
Post-development impervious fraction within drainage basin/outfall area =	0.71	
$L_{M\text{THIS BASIN}}$ =	1104	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Sand Filter**
Removal efficiency = **89** percent

- Aqualogic Cartridge Filter
- Bioretention
- Contech StormFilter
- Constructed Wetland
- Extended Detention
- Grassy Swale
- Retention / Irrigation
- Sand Filter
- Stormceptor
- Vegetated Filter Strips
- Vortechs
- 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 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where: A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	1.93	acres
A_i =	1.36	acres
A_p =	0.56	acres
L_R =	1353	lbs



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

Desired $L_{M\text{THIS BASIN}}$ = **1160** lbs.
 F = **0.86**

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

Rainfall Depth = **1.38** inches
 Post Development Runoff Coefficient = **0.51**
 On-site Water Quality Volume = **4961** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

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

Storage for Sediment = **992**
Total Capture Volume (required water quality volume(s) x 1.20) = 5953 cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP. The values for BMP Types not selected in cell C45 will show NA.

Attachment D: Factors Affecting Surface Water Quality

The following is a detailed description of all factors that could affect surface water and ground water quality that addresses ultimate land use:

During Construction: The potential sources of non-stormwater discharges from the construction of Operation Liberty Hill will consist of displaced soil from disturbed construction areas, dust, petroleum products from the operation of construction equipment and vehicles used in this type of construction. Such vehicles may include concrete trucks, dump trucks and pick-up trucks that carry personnel and construction tools and materials.

Additional source of potential pollution sources may include:

- Port-a-Potty Chemicals and Human Waste if Spilled.
- Contractor Staging Area, Waste Container(s).
- Fuel Tank(s), Maintenance and Grease Trucks.
- Emulsion and Other Paving Products.
- Chemical Storage Areas, Solvents, Detergents and Fertilizers and Paints.
- Raw Materials, Construction Debris and Landscape Waste.
- Litter from On-site Workers.
- Concrete Wash-out Area and Waterline Flushing During Testing (non- chlorinated water).

All non-stormwater discharge will be directed to the temporary Erosion Sedimentation Controls (Temporary BMPs) to remove any suspended solids held therein. Stormwater discharges during construction will include sediment-laden stormwater from dewatering operations of rainfall. The sediment-laden runoff will be directed to the temporary BMP to remove suspended soil particles prior to discharging from site.

Post Construction: Potential non-stormwater discharges after construction are complete that may affect water quality include:

- Fertilizers and Pesticides from Lawn Care
- Commercial Building Maintenance and Upkeep Chemicals
- Mulch and Sediment

Post construction stormwater typically transport sediment from poorly maintained landscaped areas mud and dust on vehicles, drive and other impervious flatwork areas, building roof, brake dust and vehicle oil

leaks. These pollutants will be conveyed to the Sediment Filter System where the required removal rates will be met for treatment prior to being released downstream of site.

There are no discharges associated with industrial activity other than construction. Only inert material as defined by 30 TAC 330.2 will be used as fill material.

Attachment E: Volume and Character of Stormwater

The following is a detailed description of the volume (quantity) and Character (quality) of the stormwater runoff that is expected from the proposed project. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover and include the runoff coefficients for pre- and post-construction conditions.:

Watershed: This project is in the South Fork San Gabriel River Watershed; its Sub Watershed is identified as the Lower South Fork San Gabriel River. The receiving River Sub Basin is San Gabriel and the River Basin, the Brazos River Basin.

Drainage: Under both existing and proposed conditions, the subject property drains into directions and into the South Fork San Gabriel River that is found just west of the subject site. Rainfall runoff from the proposed impervious cover areas will be conveyed to the Sand Filter System BMP for treatment prior to release. Once treated, the released treated stormwater is conveyed in a southeast direction, to an unnamed tributary that discharges into the South Fork San Gabriel River just southeast of the project site. Once the required capture volume is achieved in the water quality BMP, added rainfall runoff will be split-off into the stormwater detention pond where the weir will serve to attenuate peak flow release rates for the 2, 10, 25 and 100-year storm events. The stormwater released via the stormwater detention pond will be conveyed in a similar manner to the treated water quality discharge; to the unnamed tributary that discharged into the South Fork San Gabriel River just southeast of the project site.

Drainage calculations were performed per guidelines found in the City of Austin Drainage Criteria Manual, Atlas 14 Precipitation Frequency Values for Liberty Hill were determined from the NOAA's National Weather Service, Hydrometeorological Design Studies Center Precipitation Frequency Data Server (PFDS) – NOAA Atlas 14, Point Precipitation Frequency Estimates. USDA Soil Conservation Service (National Resources Conservation Services) Methodology for Curve Number and Time of Concentration Calculation were performed with guidance found in Technical Release No. 55 (TR-55) (2nd Edition) 210-VI and US Army Corp of Engineers, HEC-HMS 4.9 Routing Software.

Curve Numbers

- Pre-development 2-Year Curve Number (CN) = 79.3
- Post Development Weighted Curve Number (CN) = 88.2

The following Plan Sheets, Existing and Proposed Conditions Drainage Area Maps, include pre- and post-construction Runoff Calculations for the 2, 10, 25- and 100-year storm events calculated as described above.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **OLH**
Date Prepared: **9/11/2025**

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 indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_{T} = 27.2(A_{i} \times P)$

where: L_{T} TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_{i} = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project
County = **Williamson** acres
Total project area included in plan = **2.11** acres
Predevelopment impervious area within the limits of the plan = **0.10** acres
Total post-development impervious area within the limits of the plan = **1.36** acres
Total post-development impervious cover fraction = **0.65**
 P = **32** inches

L_{T} TOTAL PROJECT = **1104** lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = **2**

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

Drainage Basin/Outfall Area No. = **1**
Total drainage basin/outfall area = **1.93** acres
Predevelopment impervious area within drainage basin/outfall area = **0.10** acres
Post-development impervious area within drainage basin/outfall area = **1.36** acres
Post-development impervious fraction within drainage basin/outfall area = **0.71**
 L_{T} THIS BASIN = **1104** lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Sand Filter**
Removal efficiency = **89** percent

- Aqualogic Cartridge Filter
- Bioretention
- Contech StormFilter
- Constructed Wetland
- Extended Detention
- Grassy Swale
- Retention / Irrigation
- Sand Filter
- Stormceptor
- Vegetated Filter Strips
- Vortechs
- 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 3.7: $L_{R} = (BMP \text{ efficiency}) \times P \times (A_{i} \times 34.6 + A_{p} \times 0.54)$

where: A_{C} = Total On-Site drainage area in the BMP catchment area
 A_{I} = Impervious area proposed in the BMP catchment area
 A_{P} = Pervious area remaining in the BMP catchment area
 L_{R} = TSS Load removed from this catchment area by the proposed BMP

A_{C} = **1.93** acres
 A_{I} = **1.36** acres
 A_{P} = **0.56** acres
 L_{R} = **1353** lbs

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

Desired L_{R} THIS BASIN = **1160** lbs.

F = **0.86**

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

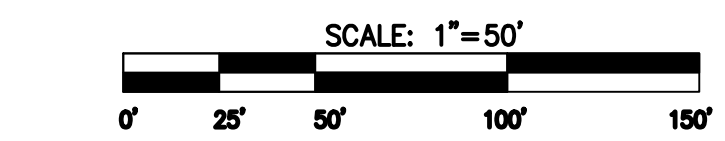
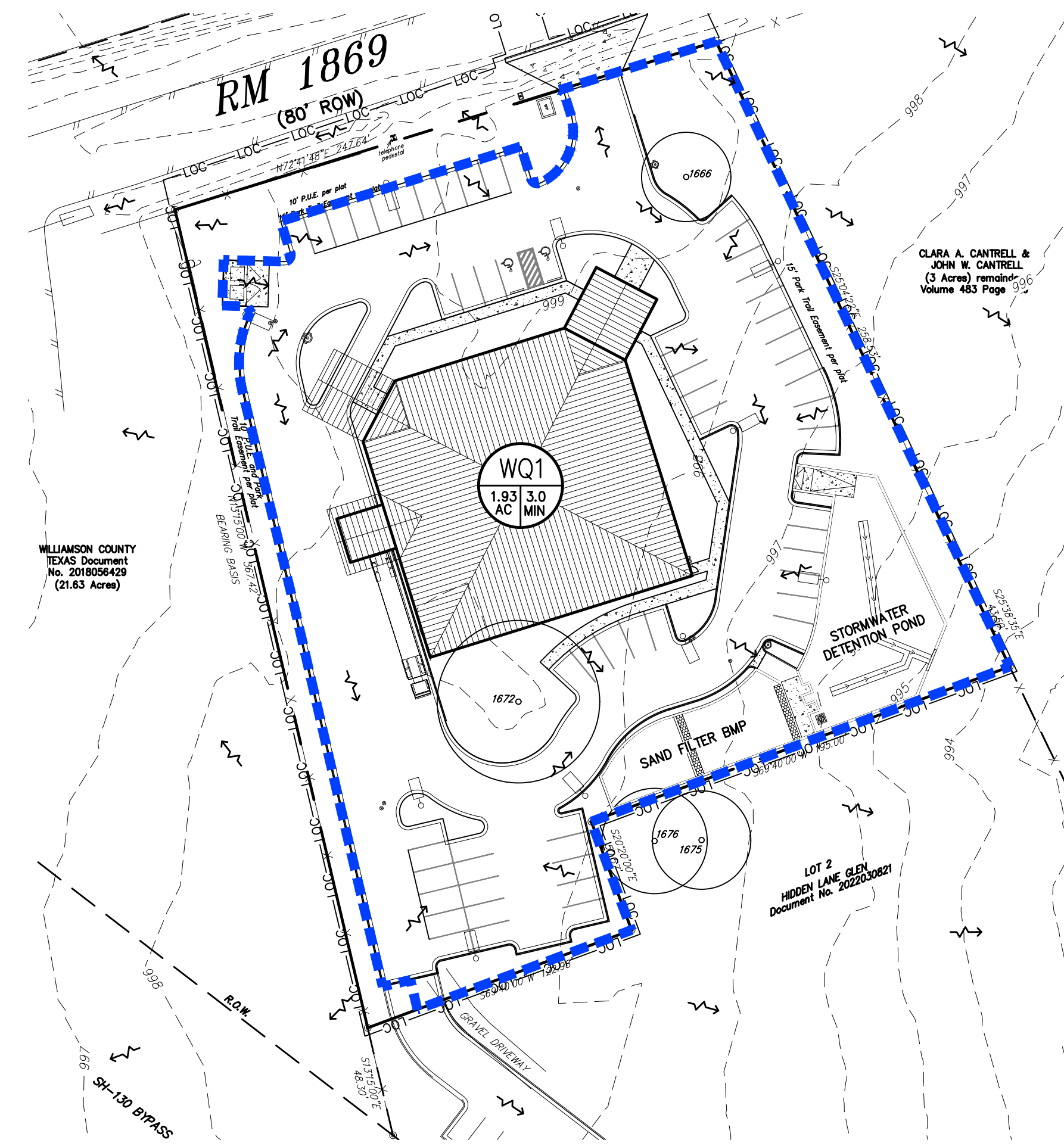
Rainfall Depth = **1.38** inches
Post Development Runoff Coefficient = **0.51**
On-site Water Quality Volume = **4961** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

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

Storage for Sediment = **992** cubic feet
Total Capture Volume (required water quality volume(s) x 1.20) = **5953** cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.

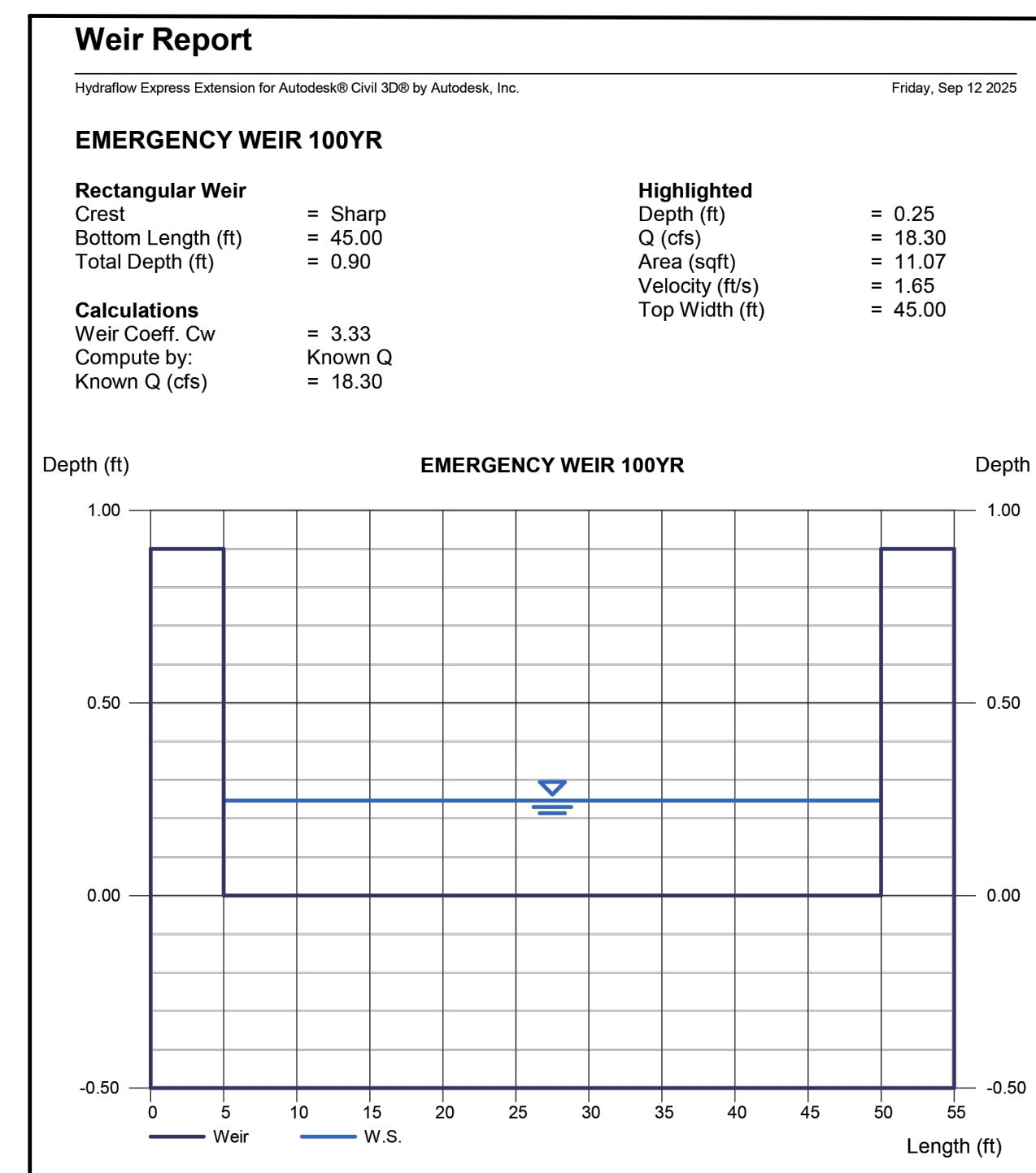


LEGEND

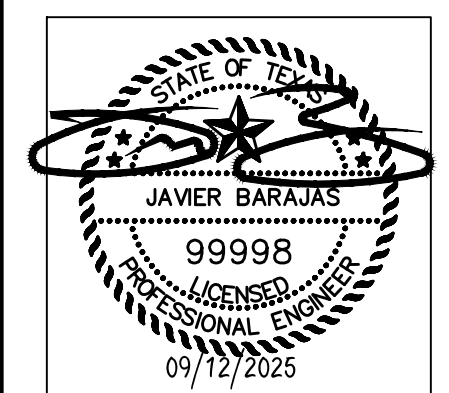
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- - - ADJACENT PROPERTY LINE
- - - EASEMENT & SETBACKS
- - - LIMITS OF CONSTRUCTION
- - - EDGE OF PAVEMENT
- x - x - WIRE FENCE
- - - CONTOUR
- - - DRAINAGE AREA BOUNDARY
- - - TIME OF CONCENTRATION PATH
- - - FLOW ARROW

WQA
AREA ACRES | TIME OF CONCENTRATION

WATER QUALITY POND VOLUME CALCULATIONS/WATER QUALITY VOLUME PROVIDED			
SEDIMENTATION POND:		STEP INTERVAL = 0.50 FT.	
STAGE (FT. MSL)*	AREA (SF)	STORAGE (CF)	CUM. STORAGE (CF)
996.50	0.00	0	0
997.00	696.68	174	174
997.50	1320.92	504	679
998.00	1337.90	665	1,343
998.50	1354.99	673	2,016
999.00	1372.21	682	2,698
999.30	1389.55	414	3,113
* INPUT AT ONE FOOT OR LESS INCREMENTS			
FILTRATION POND:		STEP INTERVAL = 0.50 FT.	
STAGE (FT. MSL)*	AREA (SF)	STORAGE (CF)	CUM. STORAGE (CF)
996.50	958.81	0	0
997.00	972.13	483	483
997.50	985.59	489	972
998.00	999.10	496	1,468
998.50	1012.70	503	1,971
999.00	1026.38	510	2,481
999.30	1040.14	310	2,791
		TOTAL	5,904
* INPUT AT ONE FOOT OR LESS INCREMENTS			
NOTES:			
1. TOTAL VOLUME IS THE WATER QUALITY CAPTURE VOLUME PER WEIR ELEVATION. TOP OF WALL HEIGHT IS 1-FOOT ABOVE THE WEIR CAPTURE VOLUME ELEVATION.			
2. WATER QUALITY CAPTURE VOLUME IS EXCEEDED IN BOTH PONDS TO COMPENSATE FOR THE FREE-RELEASE OF AREA C.			
3. WATER QUALITY CAPTURE VOLUME CALCULATIONS PER TEXAS COMMISSION ON ENVIRONMENTAL QUALITY TOTAL SUSPENDED SOLIDS (TSS) REMOVAL CALCULATIONS WORKSHEET, DATED 04/20/2009.			
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY			
PROJECT TOTAL TSS REQUIRED REMOVAL	1,104 LBS		
POND TSS REMOVAL PROVIDED	1,160 LBS		
TOTAL PROPOSED REMOVAL	1,160 LBS		



NO.	REVISION/ISSUE	DATE



CIVIL SURVEYING CONSTRUCTION

TRINE ENGINEERING

WATER QUALITY DRAINAGE AREA MAP
OPERATION LIBERTY HILL
3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No. **17** of **30**
DATE: **09/12/2025**
C7.0
PROJECT No: **331.01.01**

2025-3-SDP

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*Attachment F:
Suitability Letter from Authorized Agent*

NOT APPLICABLE

For the proposed project, an OSSF will not be needed, the City of Liberty Hill Centralized Wastewater System will serve this site.

*Attachment G:
Alternative Secondary Containment Methods*

NOT APPLICABLE

An Alternative Secondary Containment Method will not be used for this project.

*Attachment H:
AST Containment Structure Drawings*

NOT APPLICABLE

An Alternative Secondary Containment Method (AST) will not be used for this project.

*Attachment I:
20% or Less Impervious Cover Waiver*

NOT APPLICABLE

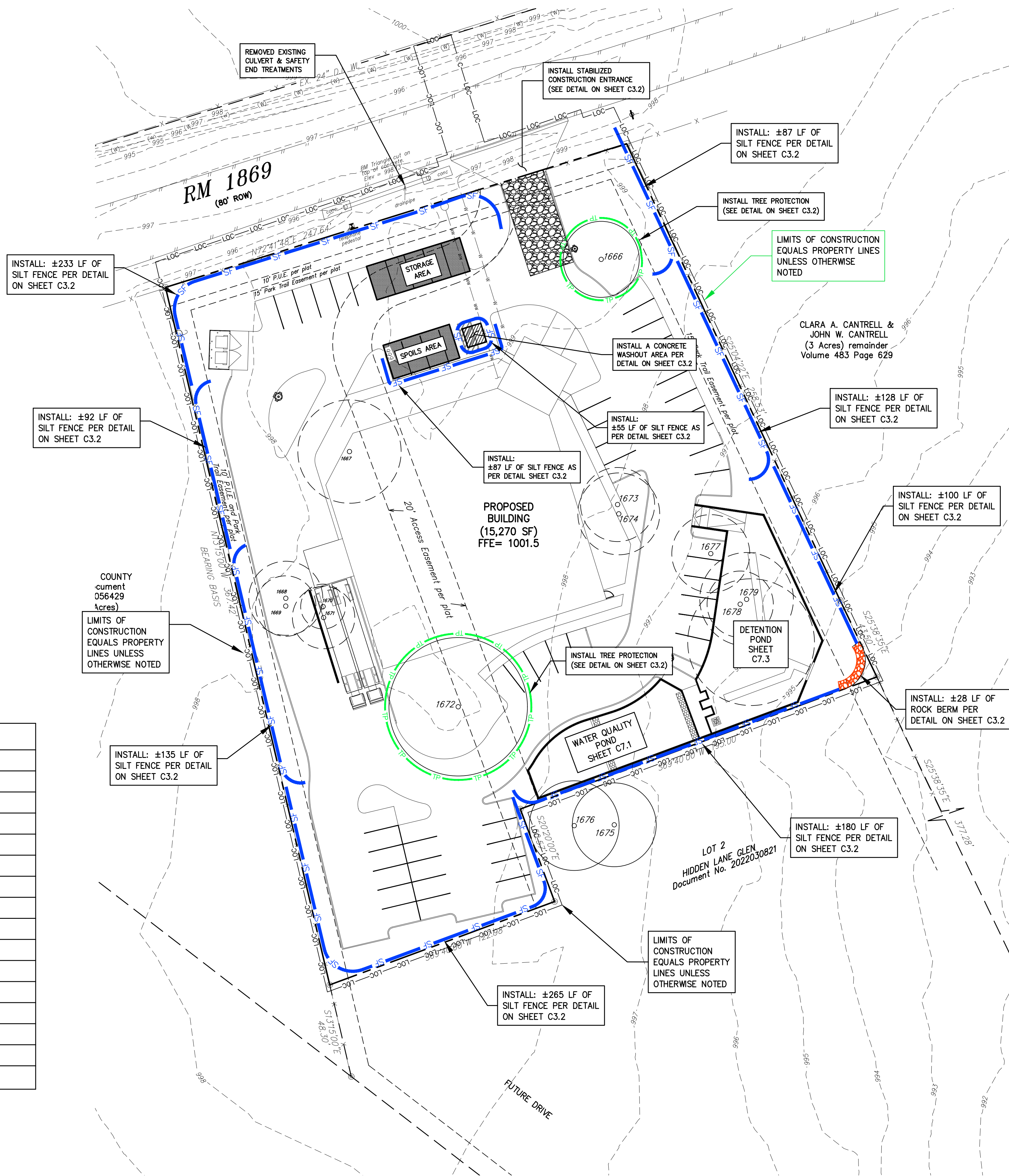
The proposed development will be commercial and over 20% in impervious cover.

Attachment J:
BMPs for Upgradient Stormwater

Runoff that originates upstream does not affect the project site; the Ranch Road 1869 roadside channels intercept upstream runoff and convey it in a westward direction to the Lower South Fork San Gabriel River found just west of the subject project site. During construction, stormwater runoff that originates from the proposed improvements will be managed to prevent pollution of surface and groundwater with the use of silt fences, and rock berms. Included with this attachment are the temporary BMP plan sheets and details proposed for this development.

PLOT DATE: Monday, August 26, 2025 10:55:44 AM
 FILE NAME: P:\EIR_PROJECTS\2025\LIBERTY HILL\SDP\OPERATION OF LIBERTY HILL\SDP\PLANS\31.01.C3.1.EIR.CONTROL.DWG

TREE LIST	
1666	19.5" LIVE OAK (POOR HEALTH)
* 1667	26.5" LIVE OAK (POOR HEALTH)
* 1668	19" LIVE OAK (POOR HEALTH)
* 1669	15.5" LIVE OAK (POOR HEALTH)
* 1670	11.5" LIVE OAK (POOR HEALTH)
* 1671	16" LIVE OAK (POOR HEALTH)
1672	35.5" LIVE OAK
* 1673	19" LIVE OAK (POOR HEALTH)
* 1674	21" LIVE OAK
1675	21.5" LIVE OAK
1676	23" LIVE OAK (POOR HEALTH)
* 1677	20" LIVE OAK (POOR HEALTH)
* 1678	17" LIVE OAK (POOR HEALTH)
* 1679	24" LIVE OAK (POOR HEALTH)
* 1680	13" AND 26" LIVE OAK (32.5 TOTAL)
* 1681	TREES TO BE REMOVED



SCALE: 1"=30'

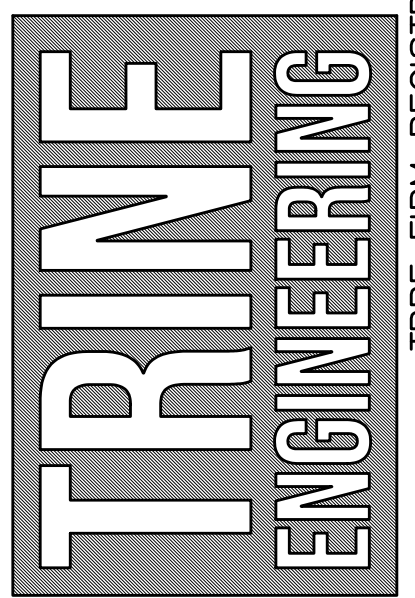
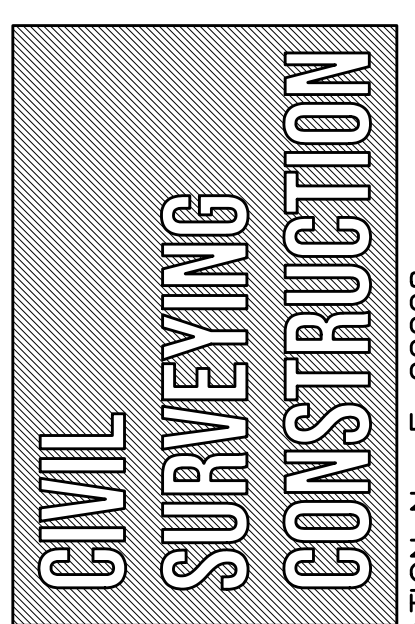
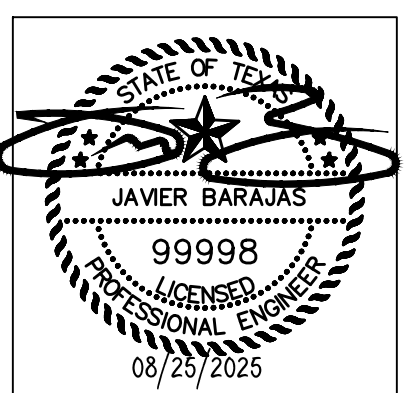
LEGEND

- PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- - - EASEMENT & SETBACKS
- - - EXISTING CONTOUR
- - - OVERHEAD UTILITIES
- POWER POLE
- - - EDGE OF PAVEMENT
- - - LIMITS OF CONSTRUCTION
- - - SILT FENCE
- - - TREE PROTECTION
- - - MULCH SOCK
- ROCK BERM
- - - COA 25 YR FLOODPLAIN
- - - COA 100 YR FLOODPLAIN
- TREE TO BE REMOVED

- NOTES:
- REFER EROSION/SEDIMENTATION CONTROL NOTES SHOWN ON THE GENERAL NOTES SHEET.
 - ALL EROSION/SEDIMENTATION CONTROL DETAILS ARE FOUND ON SHEET C3.2.
 - THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS. ANY DAMAGE BY THE CONTRACTOR TO THE EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE. THE CONTRACTOR SHALL CONTACT THE CITY TO LOCATE EXISTING UTILITIES AT LEAST 48-HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS.
 - ANY DIRT, MUD, ROCKS, DEBRIS, ETC. THAT IS SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREETS SHALL BE CLEANED UP IMMEDIATELY.
 - ALL DISTURBED AREAS SHALL BE REVEGETATED.
 - SEPTIC SYSTEM—SEPTIC TANK AND SYSTEM ABANDONMENT SHALL BE PER TCEQ CHAPTER 285, OF—SITE SEWAGE FACILITIES, SECTION 285.36—ABANDONED TANKS, BOREHOLES, CESSPOOLS, AND SEEPAGE PITS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY OR THE TANK CAN BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
 - FOR BEARING AND DISTANCE INFORMATION REFER TO BOUNDARY SURVEY ON SHEET C2.1.

LIMITS OF CONSTRUCTIONS	2.27 AC
ROCK BERM	28 LF
SILT FENCE	1,362 LF

DATE	
REVISION/ISSUE	
NO.	



EROSION, SEDIMENTATION CONTROL & TREE PROTECTION PLAN

OPERATION LIBERTY HILL

3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No.	6 of 30
DATE:	08/25/2025
C3.1	
PROJECT No.	331.01.01

designed as outlined in the TCEQ RG-348 – Complying with the Edwards Aquifer Rules, Technical Guidance on Best Management Practice, revised July 2005.

Below are the Calculations Summary that show that treatment is achieved for the Operation Liberty Hill improvement by the proposed Sand Filter System. Drainage Basin Area Calculations are broken out for each of the Drainage Basins. The number of drainage runoff directions includes two; however, TSS removal can be achieved by the single proposed Sand Filter System. The proposed Sand Filter Systems BMP has a removal efficiency of 89 percent. Detailed calculations per the Total Suspended Solids (TSS) Removal Calculation Spreadsheet follow the summary:

Required Load Removal Based on the Entire Project:

Total Project Area:	2.11 ac.
Predevelopment Impervious Cover:	0.10 ac.
Total Post Development Impervious Cover:	1.36 ac.
Total Post Impervious Cover Fraction:	0.65
Total Project TSS Load Removal Required	1,104 lbs.

Drainage Basin Outfall Area – Sand Filter:

Total Area to BMP/outfall area	1.93 acres
Predevelopment Impervious Area within outfall area	0.10 acres
Post-Development Impervious Area within outfall area	1.36 acres.
Post-Impervious Cover Fraction within outfall area	0.71
TSS Load Removal Required 80% TSS, (L_M)	1,104 lbs.
Max achievable TSS Load Removal by BMP, (L_R)	1,353 lbs.
Desired TSS Removal Rate for BMP, (L_M)	1,160 lbs.
Total Capture Volume Required plus 20%	5,953 cf.
Total Capture Volume Provided in BMP	5,904 cf.

L_M TOTAL PROJECT (MIN. REQUIRED REMOVAL RATE) 1,104 lbs.

L_M TOTAL DESIRED TSS REMOVAL RATE (REMOVAL BEING PROVIDED) 1,160 lbs.

The water quality pond is designed to treat the runoff generated from the Operation Liberty Hill improvements as listed above and are designed as outlined in TCEQ RG-348 – Complying with the Edwards Aquifer Rules, Technical Guidance on Best Management Practice, revised July 2005. An 80% removal rate will be achieved in the total area to the BMP. Runoff from the proposed improvements will be conveyed to the proposed Sand Filter System via overland flow. The TSS removal efficiency is 89% per Table 3-1--Summary of Permanent Structural BMPs with Verified Performance, TCEQ RG-348, Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices, revised July 2005.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **OLH**
Date Prepared: **9/11/2025**

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 indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

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

where: $L_{R\text{TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project
County = **Williamson** acres
Total project area included in plan = **2.11** acres
Predevelopment impervious area within the limits of the plan = **0.10** acres
Total post-development impervious area within the limits of the plan = **1.36** acres
Total post-development impervious cover fraction = **0.65**
 P = **32** inches

$L_{R\text{TOTAL PROJECT}}$ = **1104** lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = **2**

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

Drainage Basin/Outfall Area No. = **1**
Total drainage basin/outfall area = **1.93** acres
Predevelopment impervious area within drainage basin/outfall area = **0.10** acres
Post-development impervious area within drainage basin/outfall area = **1.36** acres
Post-development impervious fraction within drainage basin/outfall area = **0.71**
 $L_{R\text{THIS BASIN}}$ = **1104** lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Sand Filter**
Removal efficiency = **89** percent

- Aqualogic Cartridge Filter
- Bioretention
- Contech StormFilter
- Constructed Wetland
- Extended Detention
- Grassy Swale
- Retention / Irrigation
- Sand Filter
- Stormceptor
- Vegetated Filter Strips
- Vortechs
- 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 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where: A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = **1.93** acres
 A_i = **1.36** acres
 A_p = **0.56** acres
 L_R = **1353** lbs

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

Desired $L_{R\text{THIS BASIN}}$ = **1160** lbs.

F = **0.86**

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

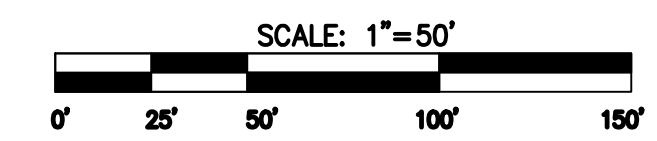
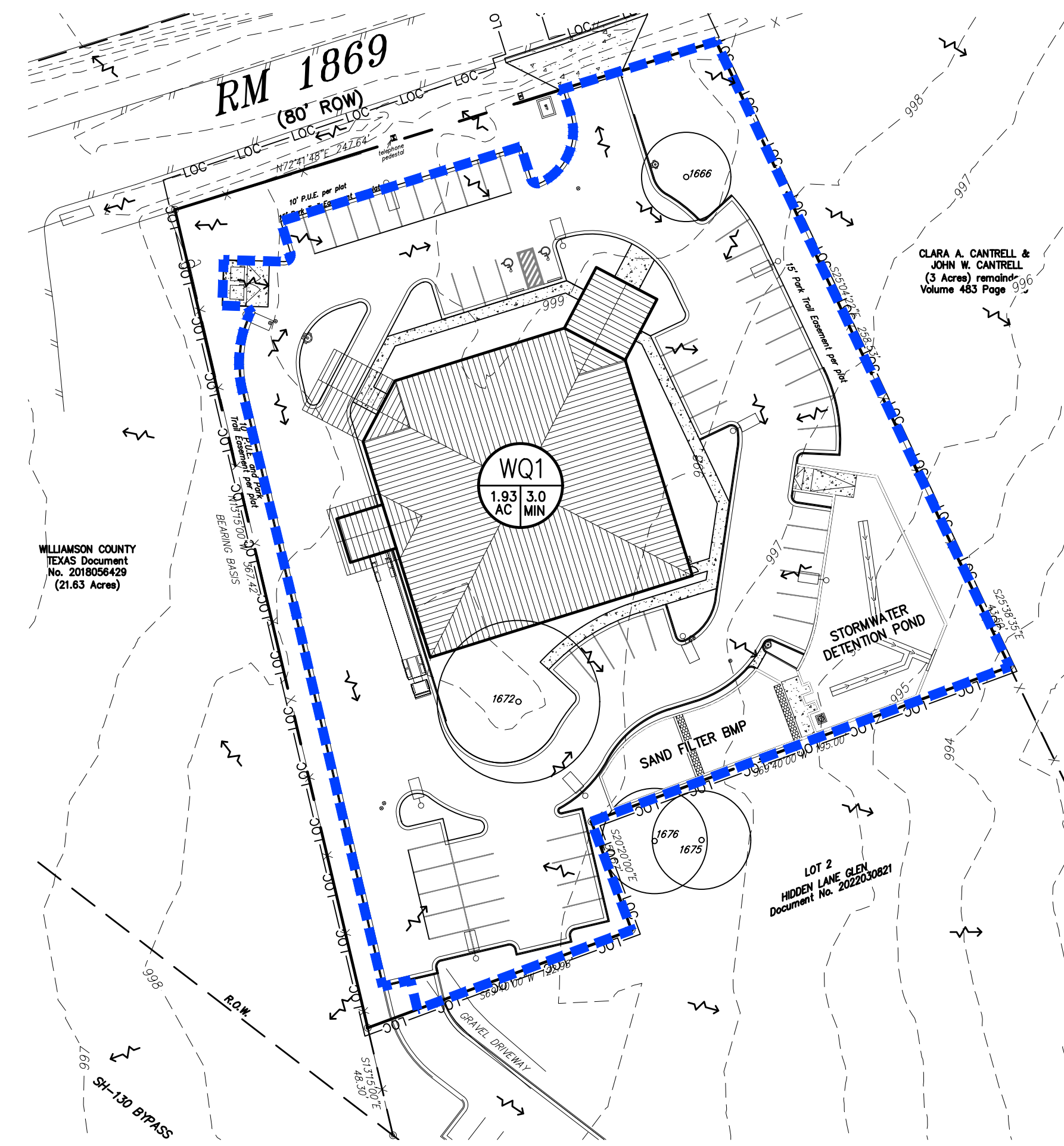
Rainfall Depth = **1.38** inches
Post Development Runoff Coefficient = **0.51**
On-site Water Quality Volume = **4961** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

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

Storage for Sediment = **992** cubic feet
Total Capture Volume (required water quality volume(s) x 1.20) = **5953** cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.



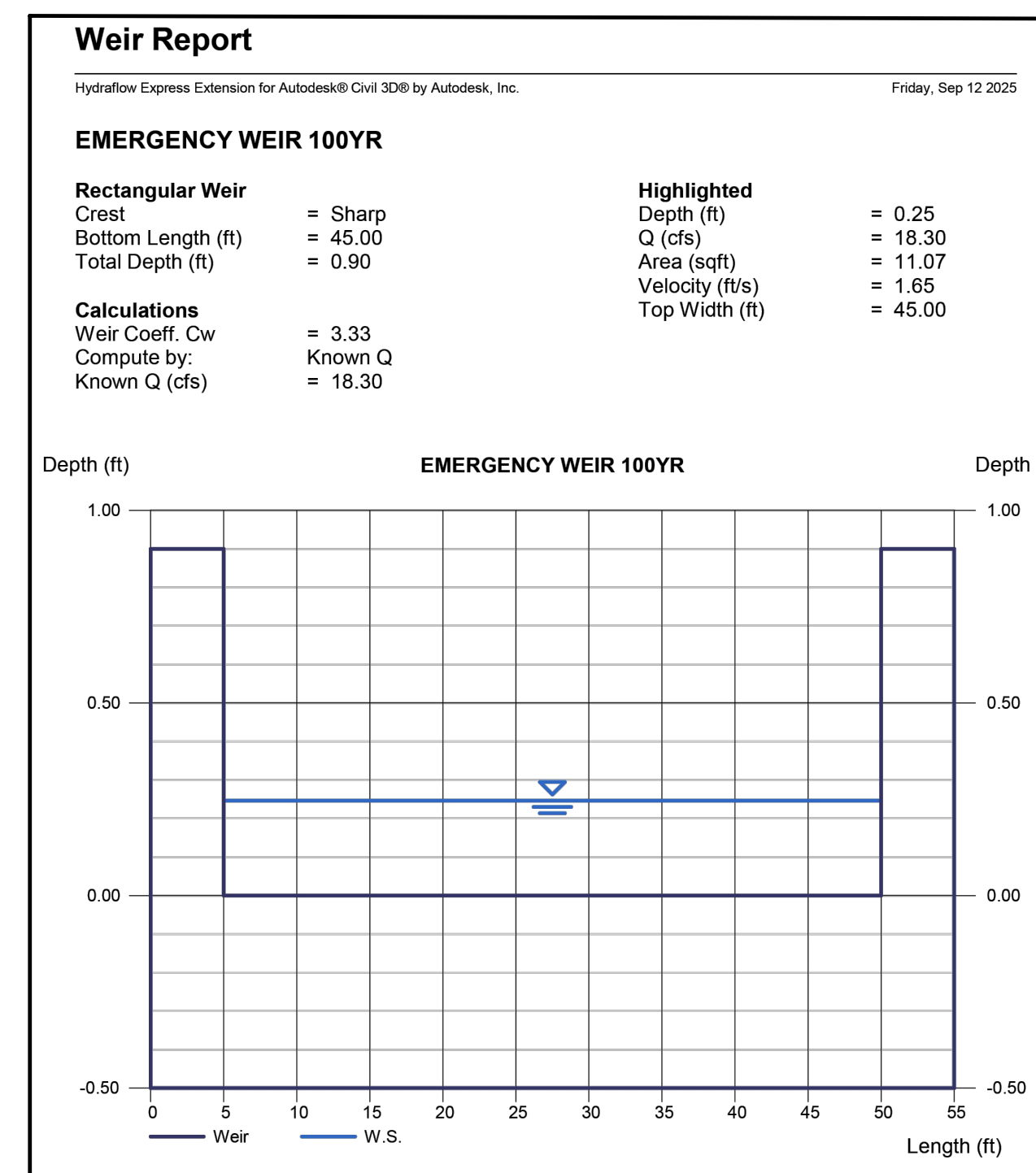
LEGEND

- PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- - - EASEMENT & SETBACKS
- - - LIMITS OF CONSTRUCTION
- - - EDGE OF PAVEMENT
- x - x - WIRE FENCE
- - - CONTOUR
- - - DRAINAGE AREA BOUNDARY
- - - TIME OF CONCENTRATION PATH
- - - FLOW ARROW

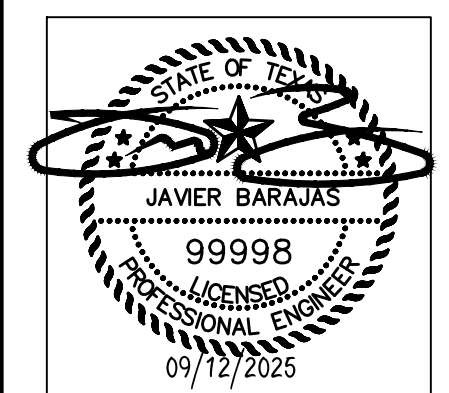


WATER QUALITY DRAINAGE BASIN
AREA ACRES | TIME OF CONCENTRATION

WATER QUALITY POND VOLUME CALCULATIONS/WATER QUALITY VOLUME PROVIDED			
SEDIMENTATION POND:		STEP INTERVAL = 0.50 FT.	
STAGE (FT. MSL)*	AREA (SF)	STORAGE (CF)	CUM. STORAGE (CF)
996.50	0.00	0	0
997.00	696.68	174	174
997.50	1320.92	504	679
998.00	1337.90	665	1,343
998.50	1354.99	673	2,016
999.00	1372.21	682	2,698
999.30	1389.55	414	3,113
* INPUT AT ONE FOOT OR LESS INCREMENTS			
FILTRATION POND:		STEP INTERVAL = 0.50 FT.	
STAGE (FT. MSL)*	AREA (SF)	STORAGE (CF)	CUM. STORAGE (CF)
996.50	958.81	0	0
997.00	972.13	483	483
997.50	985.59	489	972
998.00	999.10	496	1,468
998.50	1012.70	503	1,971
999.00	1026.38	510	2,481
999.30	1040.14	310	2,791
		TOTAL	5,904
* INPUT AT ONE FOOT OR LESS INCREMENTS			
NOTES:			
1. TOTAL VOLUME IS THE WATER QUALITY CAPTURE VOLUME PER WEIR ELEVATION. TOP OF WALL HEIGHT IS 1-FOOT ABOVE THE WEIR CAPTURE VOLUME ELEVATION.			
2. WATER QUALITY CAPTURE VOLUME IS EXCEEDED IN BOTH PONDS TO COMPENSATE FOR THE FREE-RELEASE OF AREA C.			
3. WATER QUALITY CAPTURE VOLUME CALCULATIONS PER TEXAS COMMISSION ON ENVIRONMENTAL QUALITY TOTAL SUSPENDED SOLIDS (TSS) REMOVAL CALCULATIONS WORKSHEET, DATED 04/20/2009.			
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY			
PROJECT TOTAL TSS REQUIRED REMOVAL	1,104 LBS		
POND TSS REMOVAL PROVIDED	1,160 LBS		
TOTAL PROPOSED REMOVAL	1,160 LBS		



NO.	REVISION/ISSUE	DATE



CIVIL SURVEYING CONSTRUCTION

TRINE ENGINEERING

WATER QUALITY DRAINAGE AREA MAP
OPERATION LIBERTY HILL
3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No. **17** of **30**
DATE: 09/12/2025
C7.0
PROJECT No: 331.01.01

2025-3-SDP

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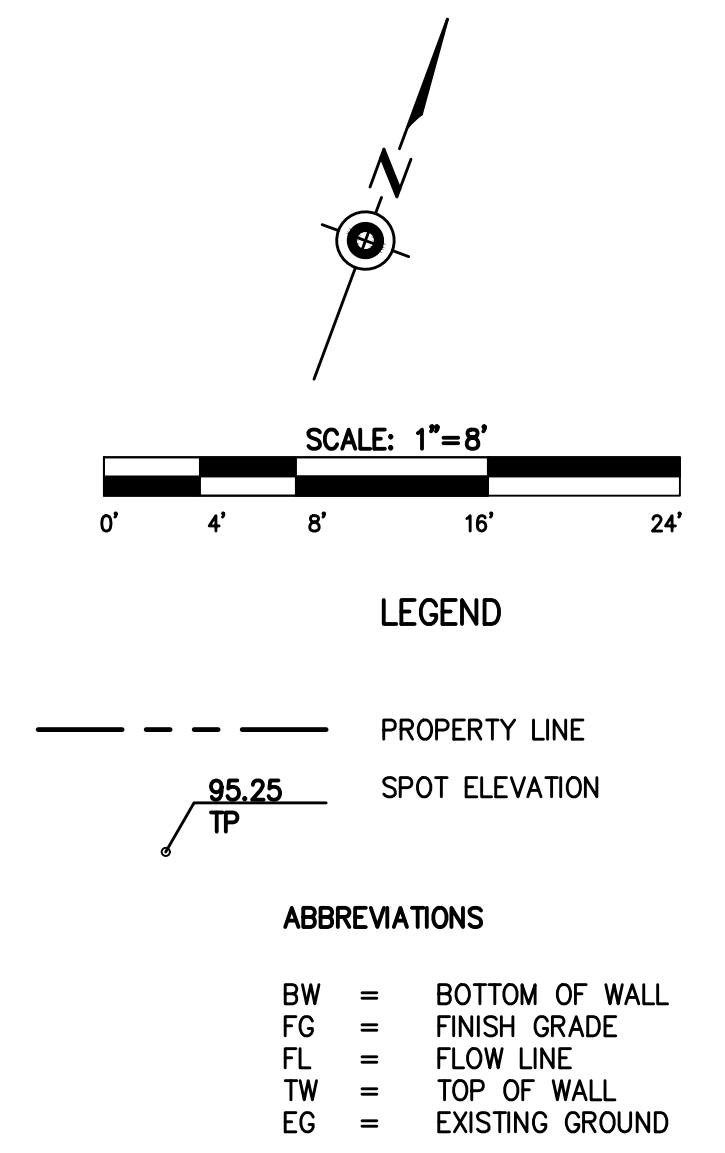
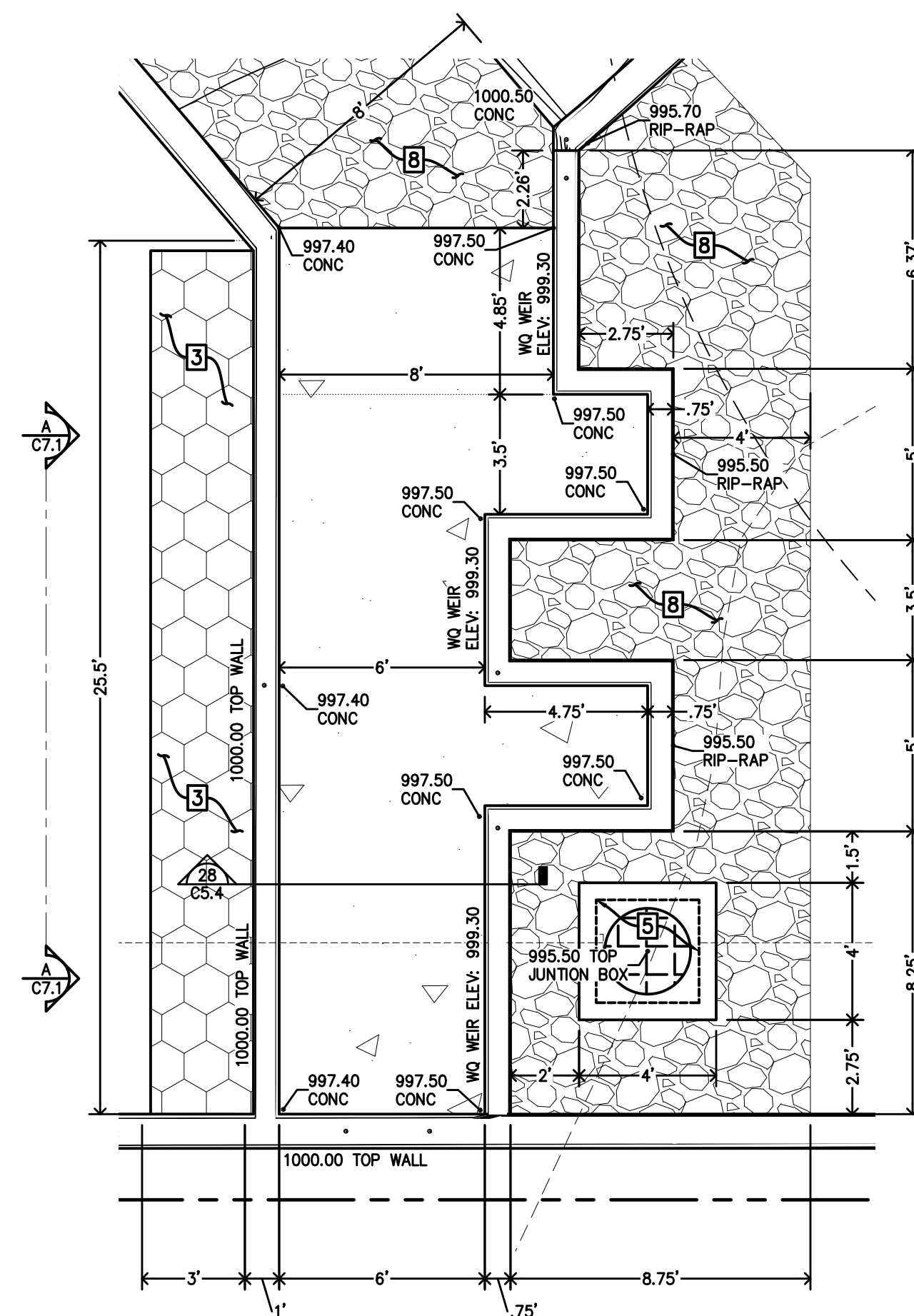
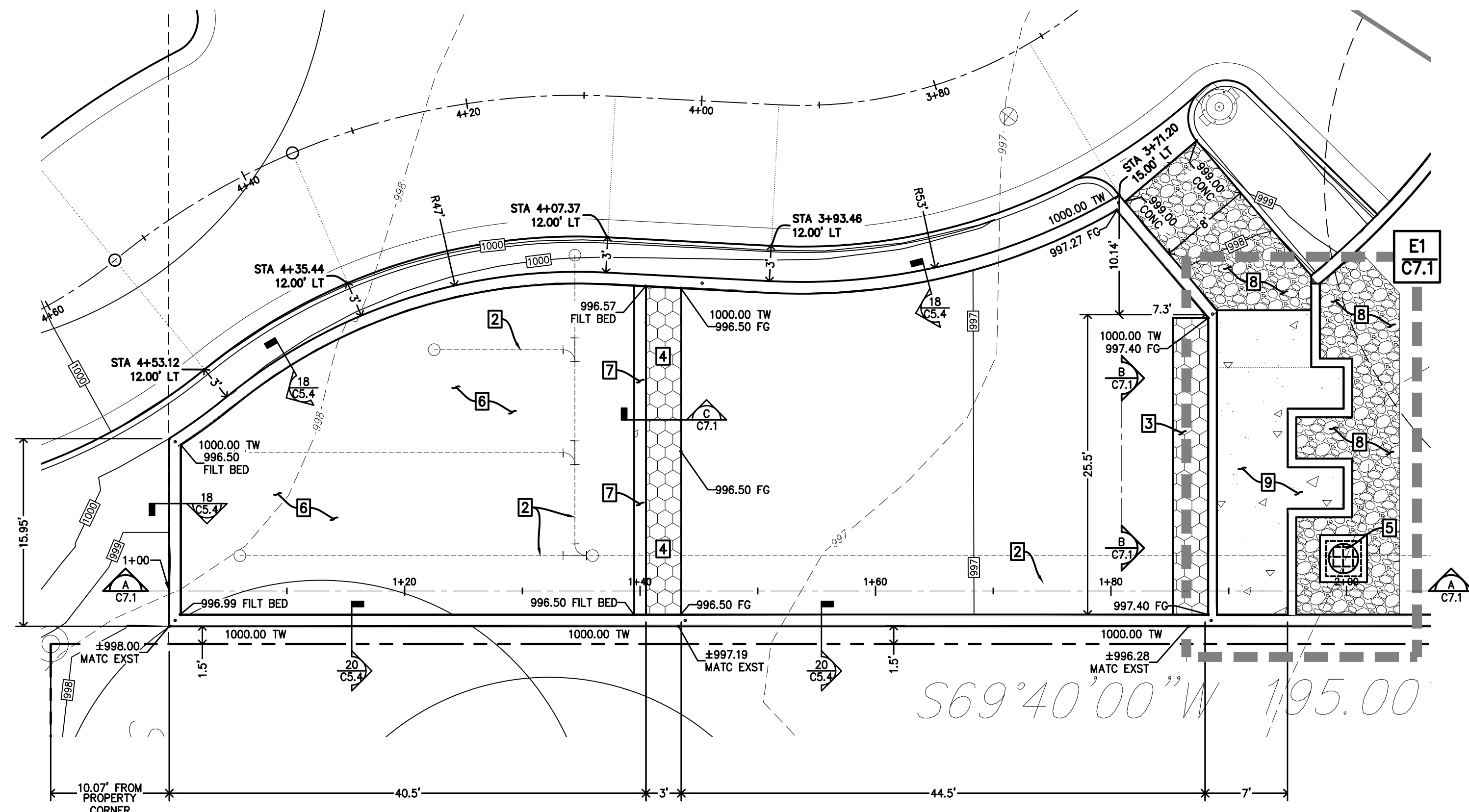
TBE FIRM REGISTRATION No. F-22228

*Attachment L:
BMPs for Surface Streams*

All runoff from Operation Liberty Hill will be conveyed and collected in the proposed Sand Filter System and treated before being released to the unnamed tributary. Surface streams will only receive stormwater runoff from Hidden Lane Glen after treatment.

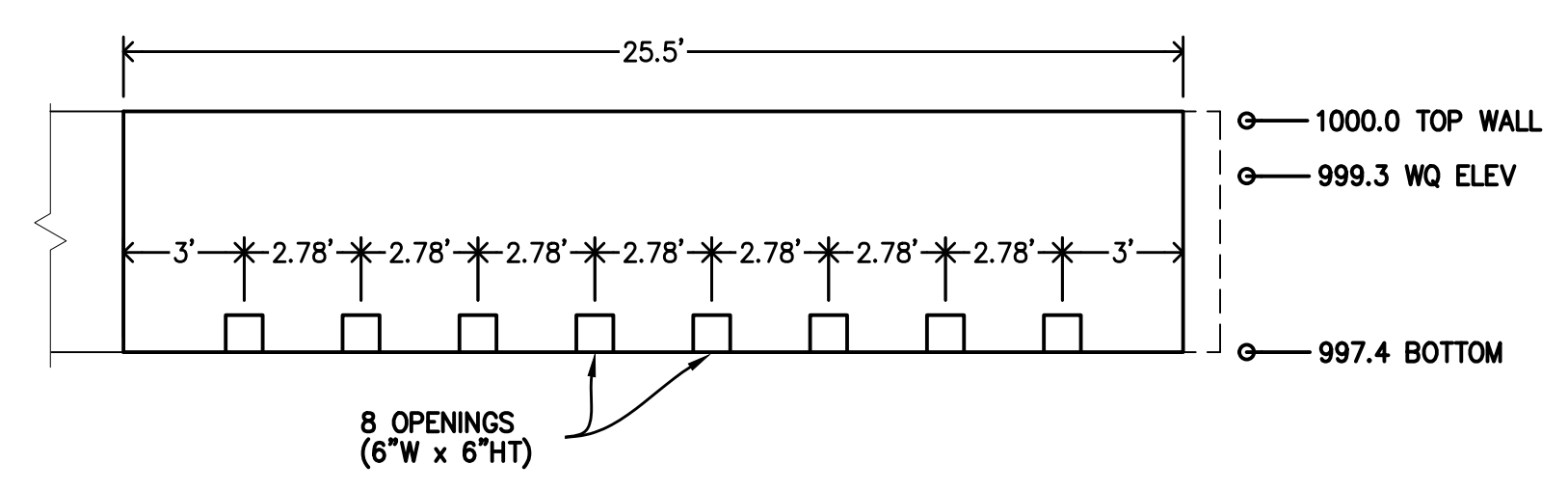
*Attachment M:
Construction Plans*

This attachment holds Construction Plan Sheets (24"x36" plan sheets) for the proposed BMP, Sand Filter Systems. The Sand Filter System BMP was designed per design guidelines found in TCEQ's RG-348 Technical Guidance on Best Management Practices Manual, complying with the Edwards Aquifer Rules, Chapter 3 - Permanent Structural Best Management Practices and City of Austin Drainage Criteria Manual.

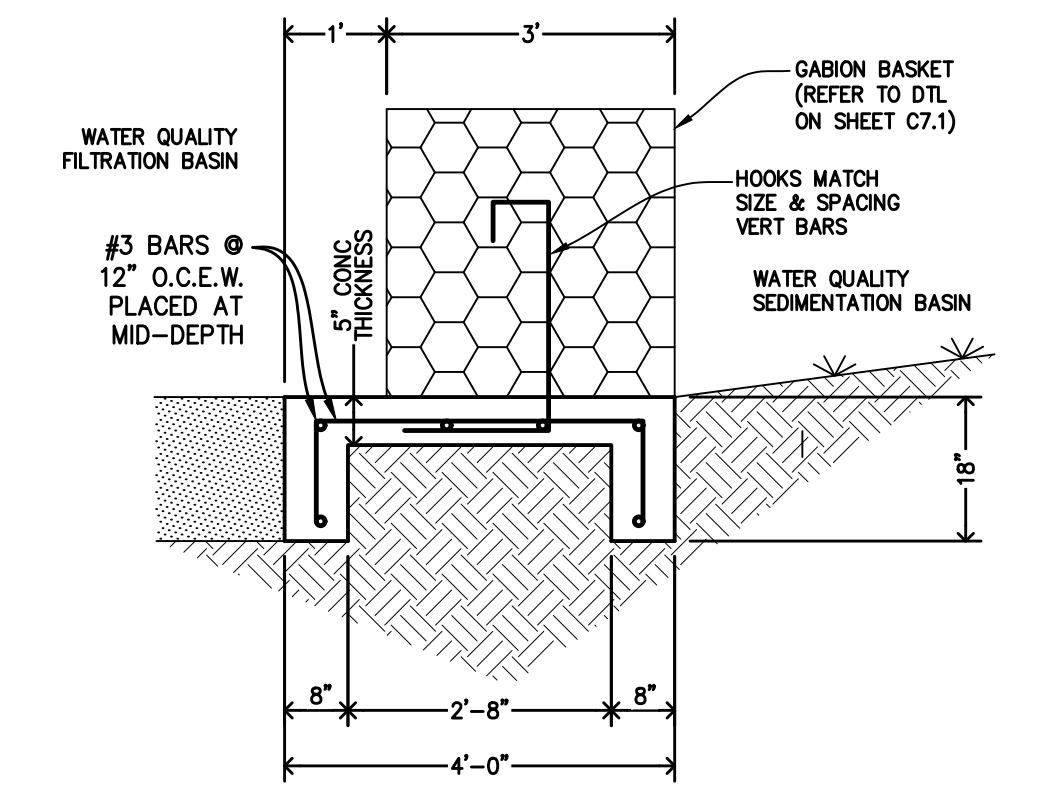


KEYNOTES	
ITEM	DESCRIPTION
2	INSTALL WATER QUALITY UNDERDRAIN SYSTEM (SEE SHEET C7.2)
3	INSTALL GABIION MATTRESS EMBEDDED 9" DEEP, WRAP ALL SIDES WITH NON-WOVEN GEOTEXTILE FABRIC EXCEPT TOP SIDE (SEE DETAIL ON THIS SHEET)
4	INSTALL GABIION BASKET (SEE DETAIL ON THIS SHEET)
5	CONSTRUCT CONCRETE JUNCTION BOX (REFER TO DETAIL ON SHEET C7.2)
6	CONSTRUCT SAND BED FILTRATION BASIN (REFER TO DETAIL ON SHEET C7.2)
7	CONSTRUCT GABIION BASKET CONCRETE BASE (REFER TO DETAIL ON THIS SHEET)
8	INSTALL 6" TO 8" ROCK RIP-RAP EMBEDDED 18" DEEP, WRAP ALL SIDES WITH NON-WOVEN GEOTEXTILE FABRIC EXCEPT TOP SIDE
9	CONSTRUCT WATER QUALITY CONCRETE SPLITTER BOX (SEE ENLARGED PLAN ON THIS SHEET)

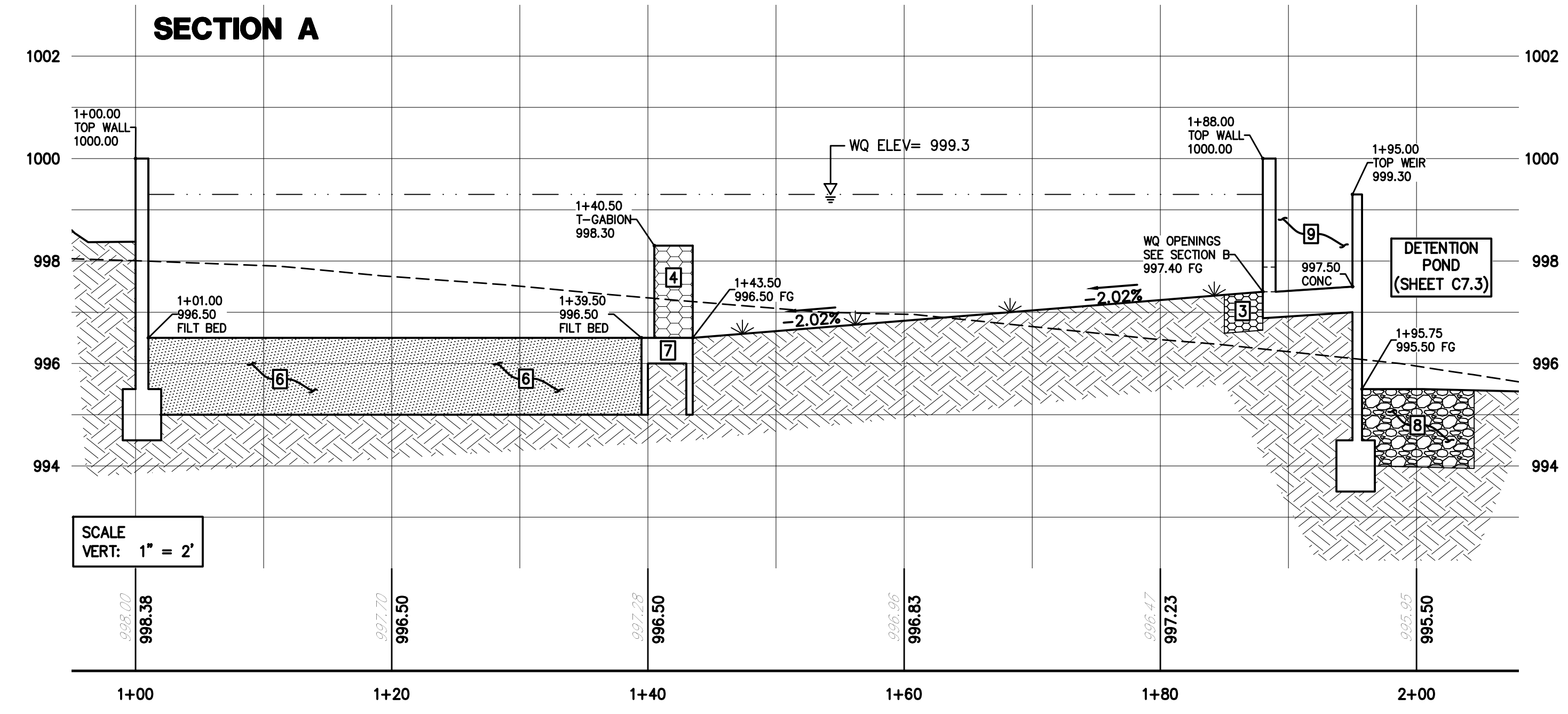
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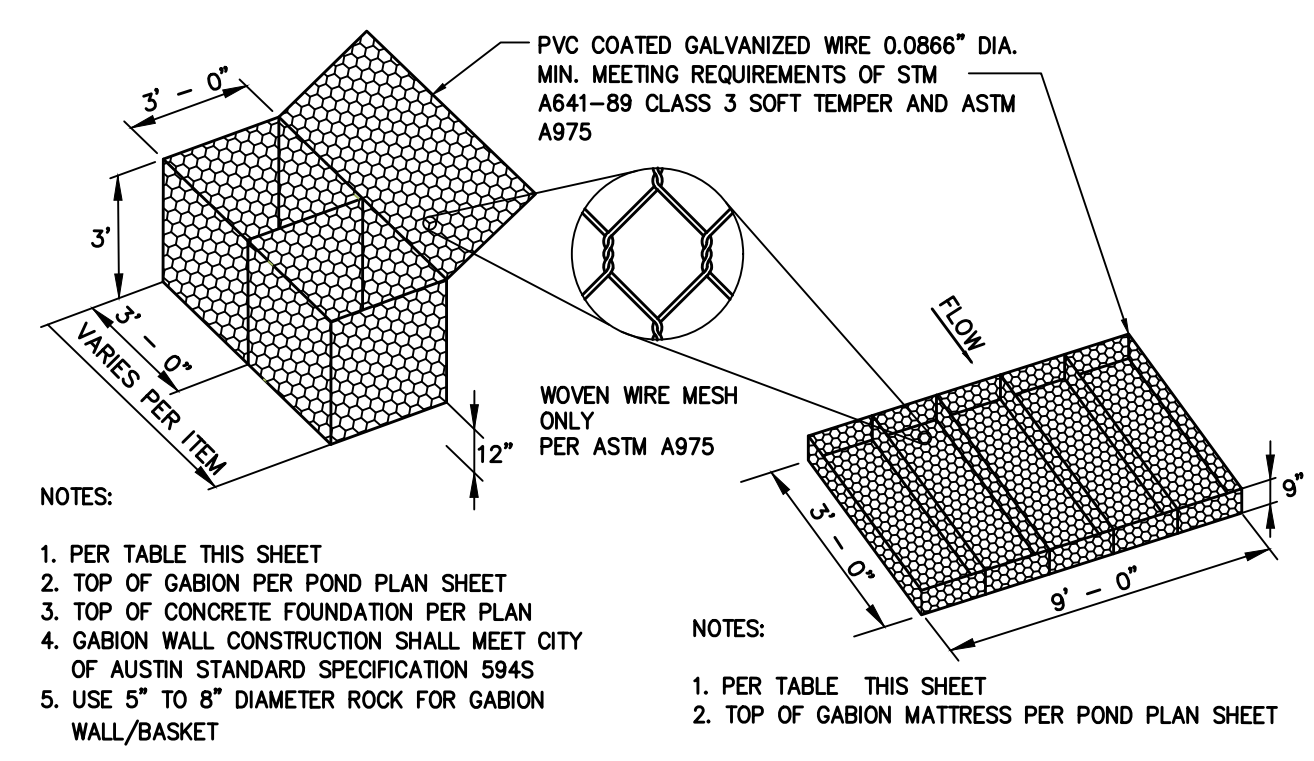
E2. SECTION B



**SECTION C
GABIION BASKET &
CONC BASE DETAIL**



**SCALE
VERT: 1" = 2'**



GABIION BASKET & MATTRESS DETAIL

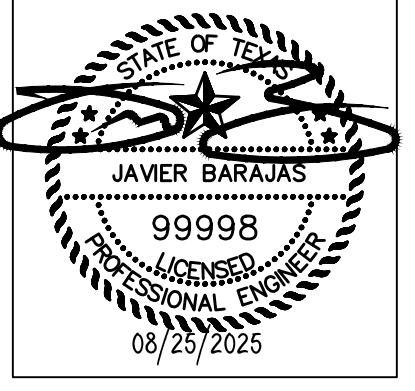
GABIION WALL AND MATTRESS BASKET STONE SPECIFICATIONS	
SLEEVE SIZE	PERCENT BY WEIGHT (MASS) % PASSING EACH INDIVIDUAL SIEVE
8 INCH	100
4 INCH	0-5
3 INCH	0

THE STONE USED TO FILL THE MATTRESS SHALL BE AS SPECIFIED FOR THE GABIION WALL EXCEPT THAT IT SHALL HAVE A MAXIMUM DIMENSION OF 9 INCHES AND A MINIMUM DIMENSION OF 5 INCHES. THE MAJORITY OF THE STONE SHALL BE IN THE 5-8 INCH RANGE; CUBICAL OR ROUNDED IN SHAPE.

NONWOVEN GEOTEXTILE FABRIC SPECIFICATIONS				
UNIT WEIGHT	MINIMUM FILTRATION RATE	MINIMUM PUNCTURE STRENGTH	MINIMUM MULLEN BURST STRENGTH	TENSILE STRENGTH
8 OZ/SY	0.08 IN./SEC	125 LBS	400 PSI	200 LBS

NOTE:
RETAINING WALLS, OVER FOUR FEET IN HEIGHT, MEASURED FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER AND WILL REQUIRE A SEPARATE PERMIT (INTERNATIONAL BUILDING CODE 106.2.5).

DATE	
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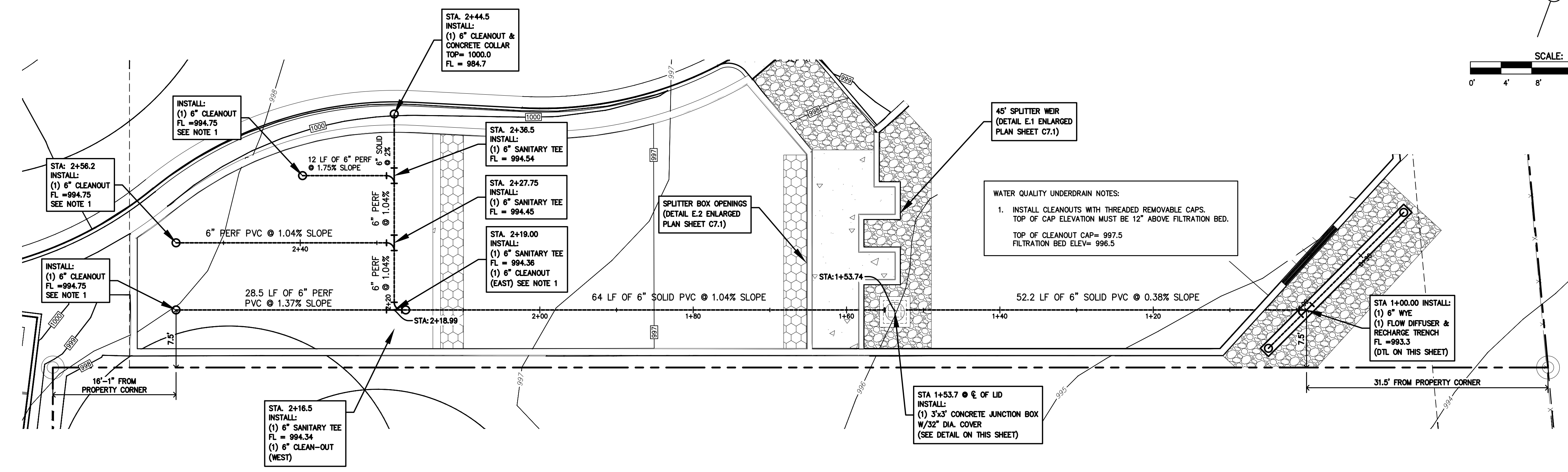
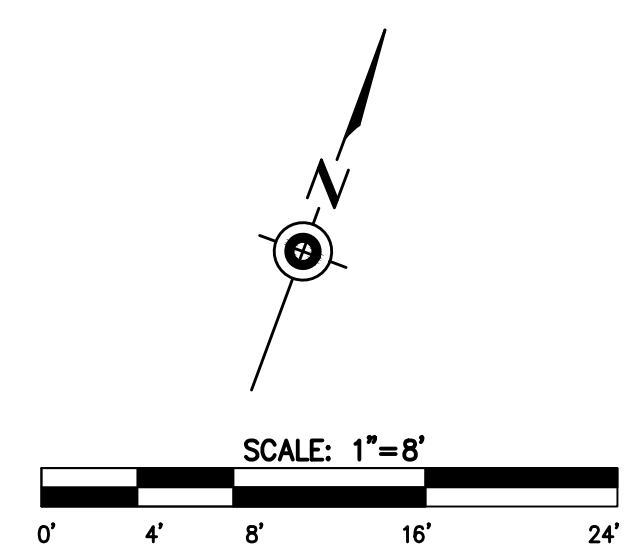
CIVIL SURVEYING CONSTRUCTION

TRINE ENGINEERING

WATER QUALITY POND
OPERATION LIBERTY HILL
3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No. **17** OF **30**
DATE: 08/25/2025
C7.1
PROJECT No: 331.01.01

2025-3-SDP

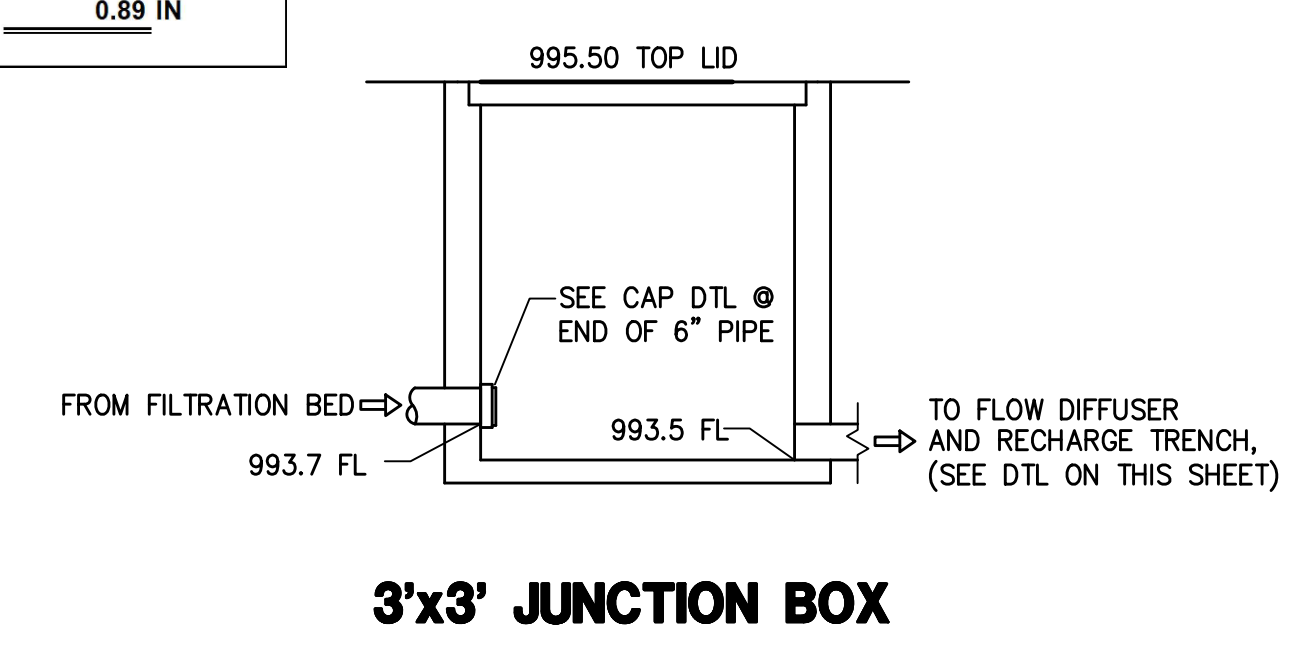
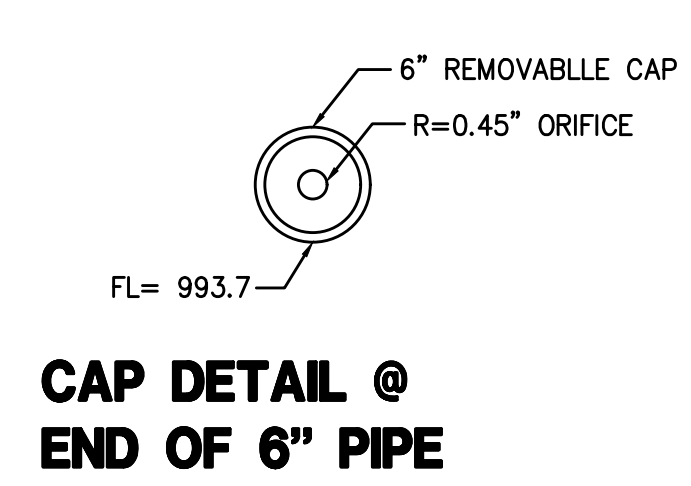


WATER QUALITY POND 'A'
48-HOUR DRAW-DOWN CALCULATIONS

$Q = C_o \cdot A \cdot (2gh)^{0.5}$

ORIFICE

WATER QUALITY VOLUME (WQV)	5,904 CF
WATER QUALITY ELEVATION	999.30 FT
FILTRATION MEDIA ELEVATION	996.50 FT
CENTROID AT OUTFALL	993.95 FT
h1	2.80 FT
h2	2.55 FT
h = (h1+h2)/2	2.67 FT
WQV PER SECOND (WQV/S)	0.03417 CFS
AREA (A) = (WQV/S)/(C _o ·(2gh) ^{0.5})	0.00434 SQ-FT
AREA (A)	0.62 SQ-IN
RADIUS (r) = (A/PI) ^{0.5}	0.45 IN
DIAMETER (d) = 2r	0.89 IN



WATER QUALITY POND A
SPLITTER WEIR CALCULATIONS

BROAD CRESTED TYPE
 $Q = 3.0 \times L \times h^{3/2}$

SPLITTER BOX

WEIR LENGTH	45.0 FT
WEIR ELEVATION	999.30 FT
WSE STEP	0.10 FT
MAXIMUM HEAD	0.70 FT
BYPASS FLOW (Q100)	15.80 CFS
CALCULATED HEAD TO BYPASS FLOW (Q100)	999.54 FT
HEAD REQUIRED TO BYPASS CALCULATED FLOW (Q100)	0.24 FT
FREBOARD PROVIDED (Q100)	0.46 FT
BYPASS FLOW (Q25)	11.10 CFS
CALCULATED HEAD TO BYPASS FLOW (Q25)	999.49 FT
HEAD REQUIRED TO BYPASS CALCULATED FLOW (Q25)	0.19 FT
FREBOARD PROVIDED (Q25)	0.51 FT

ELEVATION (FT)	h (FT)	Q (cfs)
999.30	0.0	0.00
999.40	0.10	4.27
999.50	0.20	12.07
999.60	0.30	22.18
999.70	0.40	34.15
999.80	0.50	47.73
999.90	0.60	62.74
1000.00	0.70	79.06

WATER QUALITY POND 'A'
SPLITTER BOX INFLOW CALCULATIONS

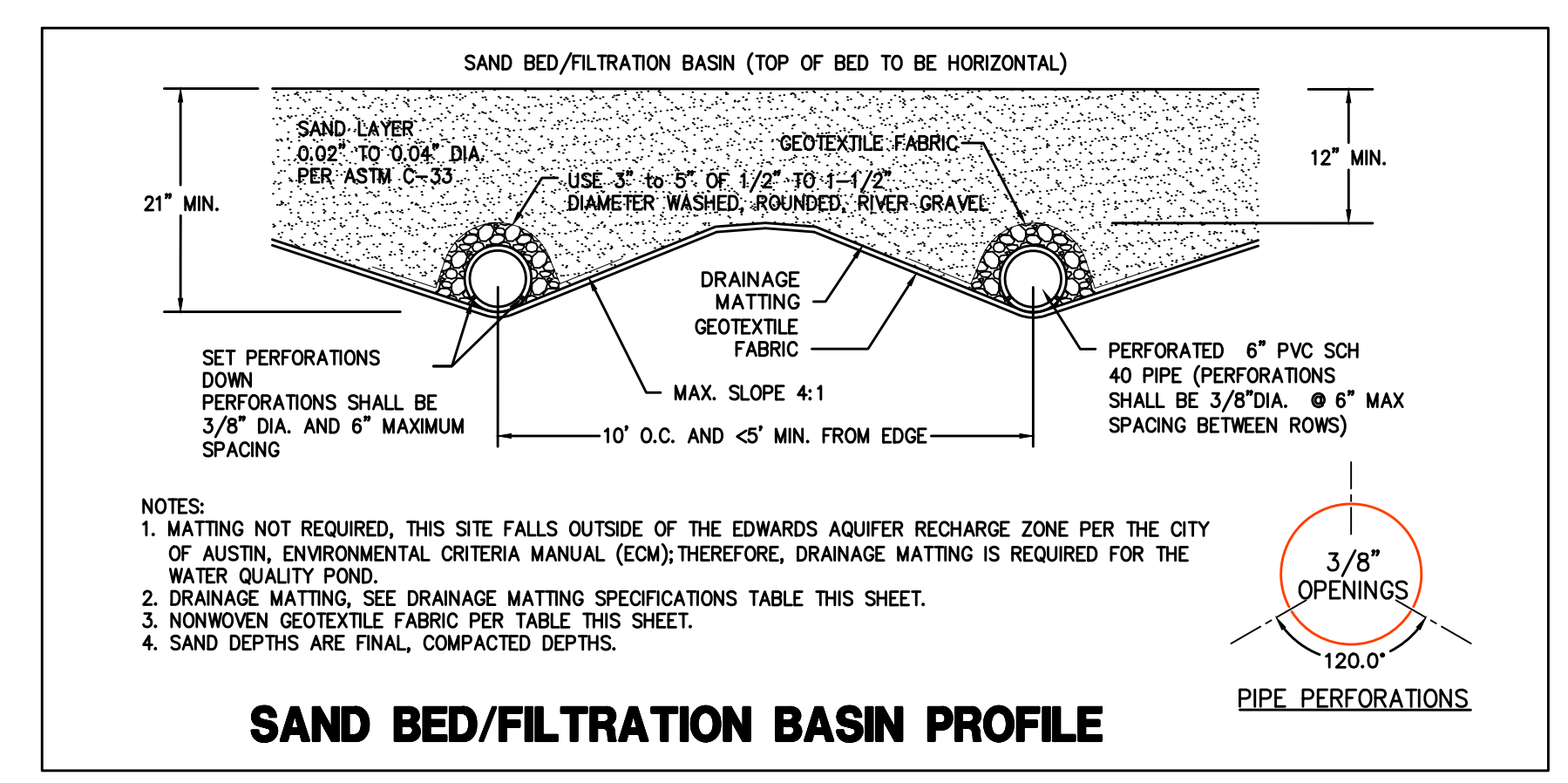
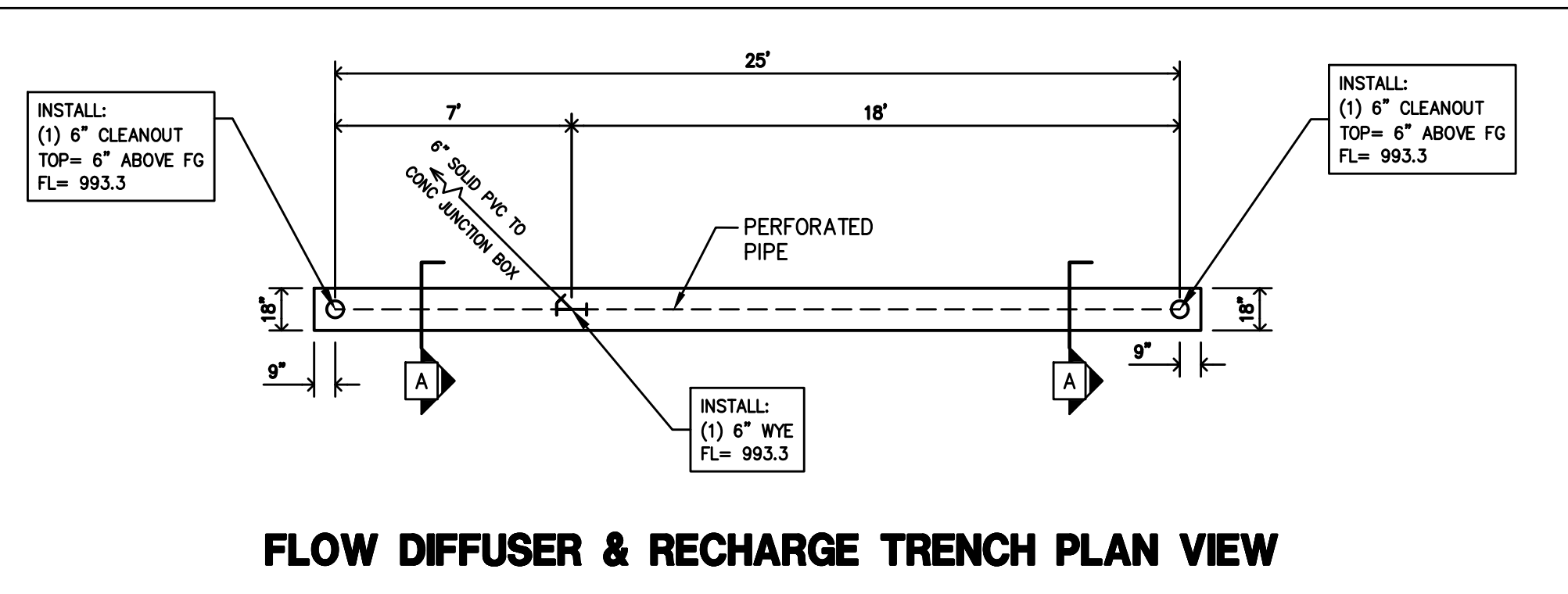
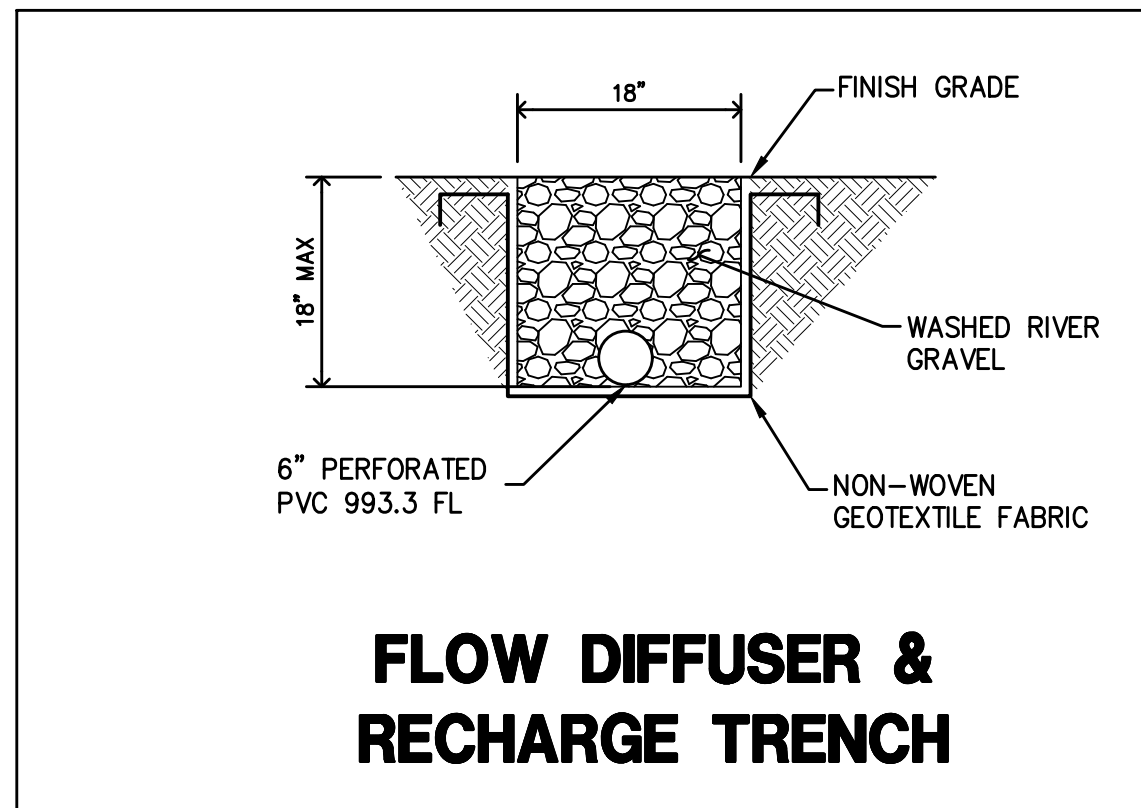
ORIFICE TYPE
 $Q_{ORIFICE} = 0.60 A (2gh)^{0.5}$

SPLITTER BOX

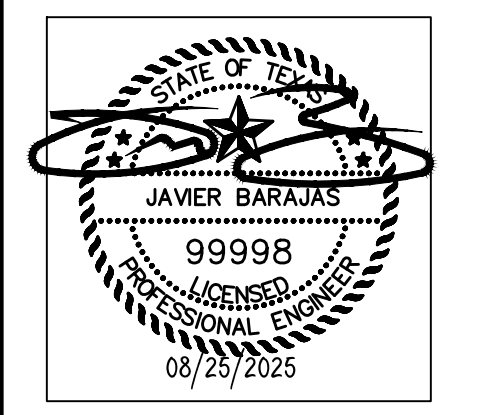
SPLITTER BOX EL.	997.40 FT
NUMBER OF OPENINGS	8 EA
LENGTH OF OPENINGS	0.50 FT
HEIGHT OF OPENINGS	0.50 FT
WSE STEP	0.3 FT
MAXIMUM HEAD (h)	2.09 FT
Q25	11.10 CFS
HEAD REQUIRED	1.70 FT
TOTAL INLET AREA (A)	2.00 SF
INLET VELOCITY (V=Q/A)	5.6 FPS

ELEVATION (FT)	h (FT)	Q (CFS)
997.90	0.25	4.81
998.20	0.55	7.14
998.50	0.85	8.88
998.80	1.15	10.33
999.10	1.45	11.60
999.40	1.75	12.74
999.70	2.05	13.79
1000.00	2.35	14.76
1000.30	2.65	15.68
1000.60	2.95	16.54
1000.90	3.25	17.36
1001.20	3.55	18.14
1001.55	3.90	19.02

A = AREA OF OPENING (SQUARE FEET)
g = GRAVITY (32.2 FEET PER SECOND)
h = HEAD ABOVE CENTROID OF OPENING/ORIFICE (FEET)
Q = FLOW (CUBIC FEET PER SECOND)
WSE = WATER SURFACE ELEVATION
V = VELOCITY (FEET PER SECOND)



DATE	
REVISION/ISSUE	
NO.	



CIVIL SURVEYING CONSTRUCTION

TRINE ENGINEERING

STATE FIRM REGISTRATION NO. F-22228

WATER QUALITY POND (UNDERDRAIN SYSTEM)

OPERATION LIBERTY HILL

3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No.	18	OF	30
DATE:	08/25/2025		
C7.2			
PROJECT No.	331.01.01		

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 DATE PLOTTED: 08/25/2025 10:58:49 AM

*Attachment N:
Inspection, Maintenance, Repair and Retrofit Plan*

Sand Filter System

General information.

Regular, routine maintenance is essential to effective, long-lasting performance of sand filters. Neglect or failure to service the filters on a regular basis will lead to poor performance and eventually costly repairs. It is recommended that sand filter BMPs be inspected on a quarterly basis and after large storms for the first year of operation. This intensive monitoring is intended to ensure proper operation and provide maintenance personnel with a feel for the operational characteristics of the filter. Subsequent inspections can be limited to semi-annually or more often if deemed necessary (Young et al., 1996).

Certain construction and maintenance practices are essential to efficient operation of the filter. The biggest threat to any filtering system is exposure to heavy sediment loads that clog the filter media. Construction within the watershed should be complete prior to exposing the filter to stormwater runoff. All exposed areas should be stabilized to minimize sediment loads. Runoff from any un-stabilized construction areas should be treated via a separate sediment system that bypasses the filter media.

Another important consideration in constructing the filter bed is to ensure that the top of the media is completely level. The filter design is based on the use of the entire filter media surface area; a sloped filter surface would result in disproportionate use of the filter media.

Other recommended maintenance guidelines include:

Inspections

BMP facilities must be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately. With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) must be identified and repaired immediately. Cracks, voids and undermining should be patched/filled to prevent additional structural damage. Trees and root systems should be removed to prevent growth in cracks and joints that can cause structural damage.

Sediment Removal

Remove sediment from the inlet structure and sedimentation chamber when sediment buildup reaches a depth of 6 inches or when the proper functioning of inlet and outlet structures is impaired. Sediment

should be cleared from the inlet structure at least every year and from the sedimentation basin at least every 5 years.

Media Replacement

Maintenance of the filter media is necessary when the drawdown time exceeds 48 hours. When this occurs, the upper layer of sand should be removed and replaced with new material meeting the original specifications. Any discolored sand should also be removed and replaced. In filters that have been regularly maintained, this should be limited to the top 2 to 3 inches.

Debris and Litter Removal

Debris and litter will accumulate near the sedimentation basin outlet device and should be removed during regular mowing operations and inspections. Particular attention should be paid to floating debris that can eventually clog the control device or riser.

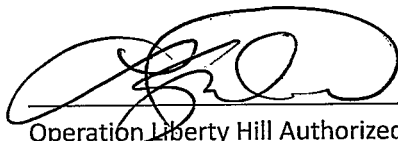
Filter Underdrain

Clean underdrain piping network to remove any sediment buildup as needed to maintain design drawdown time.

Mowing

Grass areas in and around sand filters must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. Vegetation on the pond embankments should be mowed as appropriate to prevent the establishment of woody vegetation.

Operation Liberty Hill will own and maintain the facility. Operation Liberty Hill is the responsible entity until the ownership is transferred.



Operation Liberty Hill Authorized Representative

Design Engineer and Engineering Firm:

Trine Engineering, PLLC
2620 Choctaw Trail
Austin, Texas 78745

*Attachment O:
Pilot Scale Field Testing Plan, if BMPs are not based on
Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs*

NOT APPLICABLE

The water quality pond was designed based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs, according to TCEQ recommendations. For this case, the Pilot Scale Field Testing Plan, does not apply.

*Attachment P:
Measures for Minimizing Surface Stream Contamination*

The Sand Filter System will serve to treat runoff from all proposed impervious cover for the proposed development. The Sand Filter System has an 89% TSS removal efficiency per Table 3-1 - Summary of Permanent Structural BMPs with Verified Performance, TCEQ RG-348, Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices. The high efficiency of this system and conveyance of all impervious cover from the proposed development for treatment by the Sand Filter System prior to release from the site will minimize surface stream contamination.

TEMPORARY STORMWATER SECTION
TCEQ FORM 0602

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Javier Barajas, P.E.

Date: 8/25/2025

Signature of Customer/Agent:



Regulated Entity Name: Operation Liberty Hill

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: Pesticides, adhesives, pesticides and fertilizers

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: South Fork San Gabriel River

Temporary Best Management Practices (TBMPs)

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

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

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

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

Soil Stabilization Practices

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

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

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

Administrative Information

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

Attachment A: Spill Response Actions

The prime contractor will keep the following information on site:

- A spill prevention plan
- The location of the MSDS sheets for all hazardous materials received will be clearly posted. This provides the manufacturers' recommended methods for spill cleanup.
- The materials and equipment necessary to contain and cleanup spilled hazardous substances will be stored onsite. Equipment and materials will include, but not be limited to, brooms, dustpans, mops, rags, gloves, goggles, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

Site personnel will be made aware of these procedures and the location of this information and cleanup supplies.

In the event of a spill or accidental discharge of a hazardous substance at the construction site, the responsible party should identify the type and number of material(s) involved and initiate the following actions:

- All spills will be cleaned up immediately upon discovery;
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance;
- Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size;
- The spill prevention plan will be modified as necessary to include measures to prevent the recurrence of similar spills and how to clean up the spill. A description of the spill, what caused it, and the cleanup measures will also be included;
- The Contractor will be the spill prevention and cleanup coordinator. The name of responsible spill personnel will be posted in the area where containment and cleanup materials are stored and in the contractor's office/trailer onsite.

If a major spill (e.g., a discharge or spill of oil, petroleum product, used oil, hazardous substances, industrial solid waste, or other substances into the environment in a quantity equal to or greater than the reportable quantity listed in 30 Texas Administrative Code §327.4) occurs, it will be reported to the appropriate state and local authorities.

The reportable quantities for crude oil and oil other than that defined as petroleum product or used oil

shall be:

- For spills or discharges onto land -210 gallons.
- For spills or discharges directly into water in the state-quantity sufficient to create a sheen.

The reportable quantities for petroleum products and used oil shall be:

- For spills or discharges onto land -25 gallons.
- For spills or discharges onto land from PST exempted facilities 210 gallons.
- For spills or discharges directly into water in the state-quantity sufficient to create a sheen.

Upon the determination that a reportable quantity of discharge or spill has occurred, the spill must be reported to the appropriate agencies as soon as possible but not later than 24 hours after the discovery of the spill or discharge. The telephone report required may be made to the TCEQ. The TCEQ encourages calls directly to a regional office during regular business hours (8:00 a.m. to 5:00 p.m.) or to the agency's 24-hour number. After hours, an answering service receives incoming calls and then, an operator/paging system notifies TCEQ staff of release reports.

Telephone Numbers:

City of Liberty Hill Public Works Department (512) 778-5449

Texas Commission on Environmental Quality

Regional Office, Mon-Fri 8:00 am to 5:00 pm (512) 339-2929
 24-Hour Hotline Number: (512) 463-7727 or
 (512)239-2507

Environmental Emergency Number: (800) 832-8224
 (State of Texas Spill-Reporting Hotline (SERC))

National Response Center (NRC) (800) 424-8802
 (Notifying NRC does not constitute contacting the State)

- The date and time of the release or spill;
- The identity or chemical name of material released or spilled as well as whether the substance is an extremely hazardous substance;
- An estimate of the quantity of material released or spilled and the time or duration of the event;
- The exact location of the release or spill, including the name of the waters involved or threat-

- ened and/or other medium or media affected by the release or spill;
- The source of the release or spill;
 - The name, address, and telephone number of the party in charge of, or responsible for, the facility, vessel, or activity associated with the release or spill;
 - The extent of actual and potential water pollution;
 - The name and telephone number of the party at the release or spill site, who is in charge of operations at the site;
 - The steps being taken or proposed to contain and clean up the released or spilled material and any precautions taken to minimize impacts including evacuation;
 - The extent of injuries, if any;
 - Any known or anticipated health risks associated with the incident and, where appropriate, advice regarding medical attention necessary for exposed individuals;
 - Possible hazards to the environment (air, soil, water, wildlife, etc.). This assessment may include references to accepted chemical databases, material safety data sheets, and health advisories. Estimated or measured concentrations of a contaminant may be requested by the TCEQ for the state's hazard assessment;
 - Identity of governmental and/or private sector representatives responding on-scene.

The responsible party shall immediately abate and contain the spill or discharge and cooperate fully with the executive director and the local incident command system. Every effort should be made to prevent the released or spilled material from reaching a water course. The responsible person shall also begin reasonable response actions which may include, but are not limited to, the following actions:

- Arrival of the responsible party or response personnel hired by the responsible party at the site of the discharge or spill.
- Initiating efforts to stop the discharge or spill.
- Minimizing the impact to the public health and the environment. Neutralizing the effects of the incident.
- Removing the discharged or spilled substances. Managing the wastes.

Upon request of the local government responders or the executive director, the responsible party shall provide a verbal or written description, or both, of the planned response actions and all actions taken before the local governmental responders or the executive director arrive. When the agency on-scene coordinator requests this information, it is subject to possible additional response action requirements by the executive director. The information will serve as a basis for the executive director to determine the need for:

- Further response actions by the responsible person Initiating state funded actions for which the responsible person may be held liable to the maximum extent allowed by law.

Attachment B: Potential Sources of Contamination

Potential sources of contamination from stormwater runoff during construction activities of Operation Liberty Hill will be displaced soil from the disturbed construction area, petroleum products and oils from the operation of heavy equipment, concrete trucks, dump trucks and other types of vehicles used in this type of construction. Additional potential sources are listed below:

- Sanitary Station(s) / Port-a-Potty
- Waste Containers
- Concrete, Concrete Products, Concrete Washout Area
- Raw Materials
- Solvents
- Detergents
- Fertilizers, herbicides and Pesticides
- Paint and Paint Products
- Landscape Waste
- Plastics (service pipe, building materials vapor barriers, liners)
- Petroleum-based Products
- Litter
- Adhesives
- Metal Products (rebar, wire fabric)

Non-stormwater discharges during construction may include chlorine from water line testing and flushing operations, filtered runoff from dewatering operations after a rainstorm event and new pavement washing prior to striping operations.

All stormwater runoff from this construction site will be treated directed through the temporary BMPs depicted on the Erosion, Sedimentation Control & Tree Protection Plan Sheets that are part of the Site Plan. The Erosion, Sedimentation & Tree Protection Plan identifies the Limits-of-Construction, drainage patterns area where ground-disturbing activities will occur and general location of stormwater pollution controls. The contractor shall update the plan as necessary to reflect current construction activities. Plan updates shall be per guidelines found in the TCEQ General Permit to Discharge Under the Texas Pollution Discharge Elimination System, TXR150000 (General Permit) provided in the SW3P.

The following management practices during construction should be implemented by all contractors performing work at the Operation Liberty Hill site in order to minimize the risk of spills, accidental ex-

posure of material / potential contamination of stormwater runoff.

The following practices shall be followed during construction.

Good housekeeping:

- All soil, sand, gravel, and excavated material stockpiles on-site will have appropriate temporary erosion and sedimentation controls installed down gradient;
- An effort shall be made by all contractors to store only enough products required to do the job;
- All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure;
- Materials will be stored in the construction staging, material storage and/or temporary spoils disposal areas as shown on the construction plans. Additional site areas to those shown on the plans shall be added to the SW3P by the contractor as indicated in the General Permit;
- Products shall be kept in their original containers with the original manufacturer's labels. When possible, all products should be used before disposing the container. When not possible, products should be disposed of according to manufacturer's instructions or state and local regulations;
- Manufacturer's recommendations for proper use and disposal shall be followed;
- The Contractor will make periodic inspections to ensure the proper use and disposal of material.

Petroleum Products:

- All onsite vehicles should be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage;
- Petroleum products should be stored in tightly sealed containers which are clearly labeled. Any asphaltic substances used on-site should be applied according to the manufacturer's recommendations and by experienced personnel.

Fertilizers:

- Fertilizers should be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer should be worked into the soil to limit exposure to stormwater.
- The contents of any partially used bags of fertilizer should be transferred to a sealable plastic bin to avoid spills.

Waste Disposal:

- All waste material shall be collected and stored in a secure metal dumpster which shall be regularly emptied. No construction material will be buried on-site.
- Sanitary waste shall be collected and disposed of by a TCEQ Licensed Operator and disposed of properly in accordance with TCEQ regulations.

Paints:

- All containers will be tightly sealed and stored when not required for use.
- Excess paint will not be discharged to the storm sewer system but will be properly disposed of according to manufacturer' instructions or state and local regulations.

Concrete Trucks:

- Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum water on the site except in designated areas.
- Upon completion of the project, the Contractor will clean up the wash-out site in accordance with state and local regulations.

Construction Equipment/Vehicles:

- Construction equipment/vehicles will be limited, as much as possible, to the project site. Any soil, mud, etc. to be carried from the project into public roads will be cleaned up immediately

Attachment C:
Sequence of Major Activities

1. Post permits and General Contractor Contact Information (Site Plan, SW3P, etc.) on-site and in highly visible area.
2. Fertilize trees to remain prior to commencing construction;
3. Install SWP3 Controls and Sediment Barriers as depicted in the approved Site Plan, Erosion, Sedimentation Control & Tree Protection Plan Sheets, and in accordance with the Stormwater Pollution Prevention Plan (SW3P). Install tree protection and initiate tree mitigation measures;

Estimated Time to Complete After Commencing - 5 Weeks

4. The environmental project manager, and/or site supervisor, and/or designated responsible party, and the general contractor shall follow the storm water pollution prevention plan (SW3P). Temporary erosion and sedimentation controls shall be revised, if needed, to comply with city inspectors' directives, and revised construction schedule relative to the water quality plan requirement, the erosion plan and the TCEQ General Permit;
5. Contact the City of Liberty Hill Planning and Development Department at (512) 548-5519, 72-hours prior to the scheduled date of the City required on-site preconstruction meeting;
6. Contractor or responsible party shall inspect and maintain temporary erosion and sedimentation controls in accordance with the storm water pollution prevention plan (SW3P);
7. Commence Site Clearing, Grubbing and Removal of Brush, Trees and Stripping and Stockpiling Topsoil;

Estimated Time to Complete After Commencing – 10 Weeks

8. Perform Rough Site Grading;

Estimated Time to Complete After Commencing - 12 Weeks

9. Installation of Drainage Structures, other Underground Utilities, and Building Foundation Excavation and Preparation for Concrete;

Estimated Time to Complete After Commencing - 14 to 16 Weeks

6. Building Construction. This task will be on-going once foundation is poured until the end of construction;
7. Final Grading, Concrete Flatwork and HMAC Pavement;

Estimated Time to Complete After Commencing - 12 Weeks

8. Site Restoration and Re-vegetation:

Estimated Time to Complete After Commencing - 8 Weeks

9. Upon completion of site construction and revegetation of the project, the design engineer shall submit an Engineer's Letter of Concurrence to the City of Liberty Hill indicating that construction, including revegetation is complete and in substantial conformity with the approved plans. After receiving the letter, a final inspection will be scheduled by the City Inspector;
10. Removal of SW3P Controls/ TCEQ Notice of Termination, if applicable. Remove only after final inspection has been conducted by City Inspector and accepts the completed project;

Estimated Time to Complete After Commencing - 3 Week

11. Typical Maintenance Activities.

Estimated Time to Complete After Commencing - 22 Months

The estimated area in acres for the activities listed above is approximately 15.9-acres.

The receiving waters near the site which will receive discharges from the disturbed area of the project will be South Fork San Gabriel River.

Attachment D:

*Temporary Best Management
Practices and Measures*

The following will be used for temporary erosion and sedimentation controls. These construction phased TBMPs for erosion and sedimentation control have been designed to retain sediment on-site to the greatest extent practicable. Their function, as applied, is to prevent pollution of surface water, groundwater and stormwater:

- A stabilized construction entrance will be installed per the construction plans for construction vehicles or equipment to enter or leave the construction site. This will provide access for construction traffic and prevent unnecessary and minimize when muddy the tracking of sediment into public Right-of-Way (ROW). Tracking of mud or dirt into the ROW will require immediate cleanup.
- Silt fences will be placed, as shown on the plans, to intercept sediment while allowing storm-water runoff to be conveyed to the intercepting inlets. Inlets will contain protection as well to further enhance sediment removal/capture. A rock berm is also proposed to serve to trap sediment and filter runoff before reaching the existing inlet;
- Inlet protection will be provided at each of the inlets, erosion control logs/mulch socks, until the site is stabilized or paved;
- A temporary staging area with silt fencing on the downstream side will be provided for the placement of materials and chemicals which are to be utilized on the site during construction;
- Tree protection fencing will be placed around all trees that are to remain in order to protect them from machinery operations that otherwise could cause damage;
- Should the above temporary TBMP's be deemed to be insufficient, additional TBMP's may be added by the contractor and/or may be required by City Inspector. The entity responsible for SW3P record keeping shall follow General Permit Plan Update Guidelines. A Copy of the TCEQ General Permit will be included in the SW3P.

*Attachment E:
Request to Temporarily Seal a Feature*

NOT APPLICABLE

There are no known naturally occurring sensitive features on this proposed development.

Attachment F:

Structural Practices

Silt Fencing:

- Silt Fencing is to be installed according to details shown in the approved construction plans;
- Silt fencing is to be located as shown on the Erosion, Sedimentation Control & Tree Protection Plan;
- Silt fence to be installed prior to any earthwork, as noted in Sequence of Construction.

Sumps:

- The proposed Sand Filter Systems because of proposed grading will act as sediment traps / sumps. They have been designed in sumps as created by the grading on the approved plan set. They are intended to catch all of the on-site runoff. There is no runoff intended to leave the site, it will all be conveyed and collected by the water quality pond via the proposed storm sewer system. Once in the pond the skimmer/flotation device will be used to dewater both ponds/sediment traps. Discharge from the ponds will be upstream of the perimeter silt fencing and/or through a Dirtbag.

Water Quality Pond:

- Both proposed BMPs will serve as sediment basins during construction. Dewatering guidelines will be followed in order to manage the removal of rainfall runoff collected in the ponds/sediment traps.

Dewatering Operations:

- Dewatering operations are practices that manage the discharge of pollutants when non-stormwater and accumulated precipitation or groundwater must be removed from a work area so that construction work can be accomplished.
- The controls detailed in this BMP only allow for minimal settling time for sediment particles and should only be used when site conditions restrict the use of the other control methods. When possible, avoid dewatering discharges by using the water for dust control, by infiltration, allowing to evaporate, etc.
- A variety of methods can be used to treat water during dewatering operations. When pumping water out or through any device, a floatation device should be attached to the pump inlet; thereby, allowing the system to pump the upper cleaner layer of water. Another device that can be used in pumping operation is a Dirtbag. The Dirtbag is a large non-woven filter/bag that the discharge hose of a pump is connected to. The Dirtbag removes silt, sand, and other debris from pumped water. Additional dewatering guidelines are included in the SW3P.

- Sediment controls are low to high-cost measures depending on the dewatering system that is selected. Pressurized filters tend to be more expensive than gravity settling but, are often more effective. Simple tanks are generally rented on a long-term basis (one or more months). Mobilization and demobilization costs vary considerably.

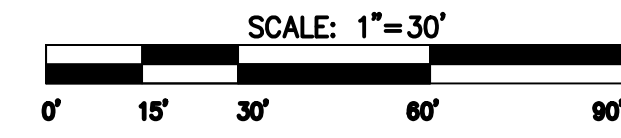
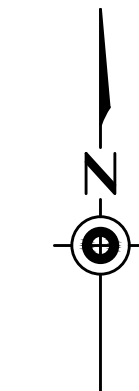
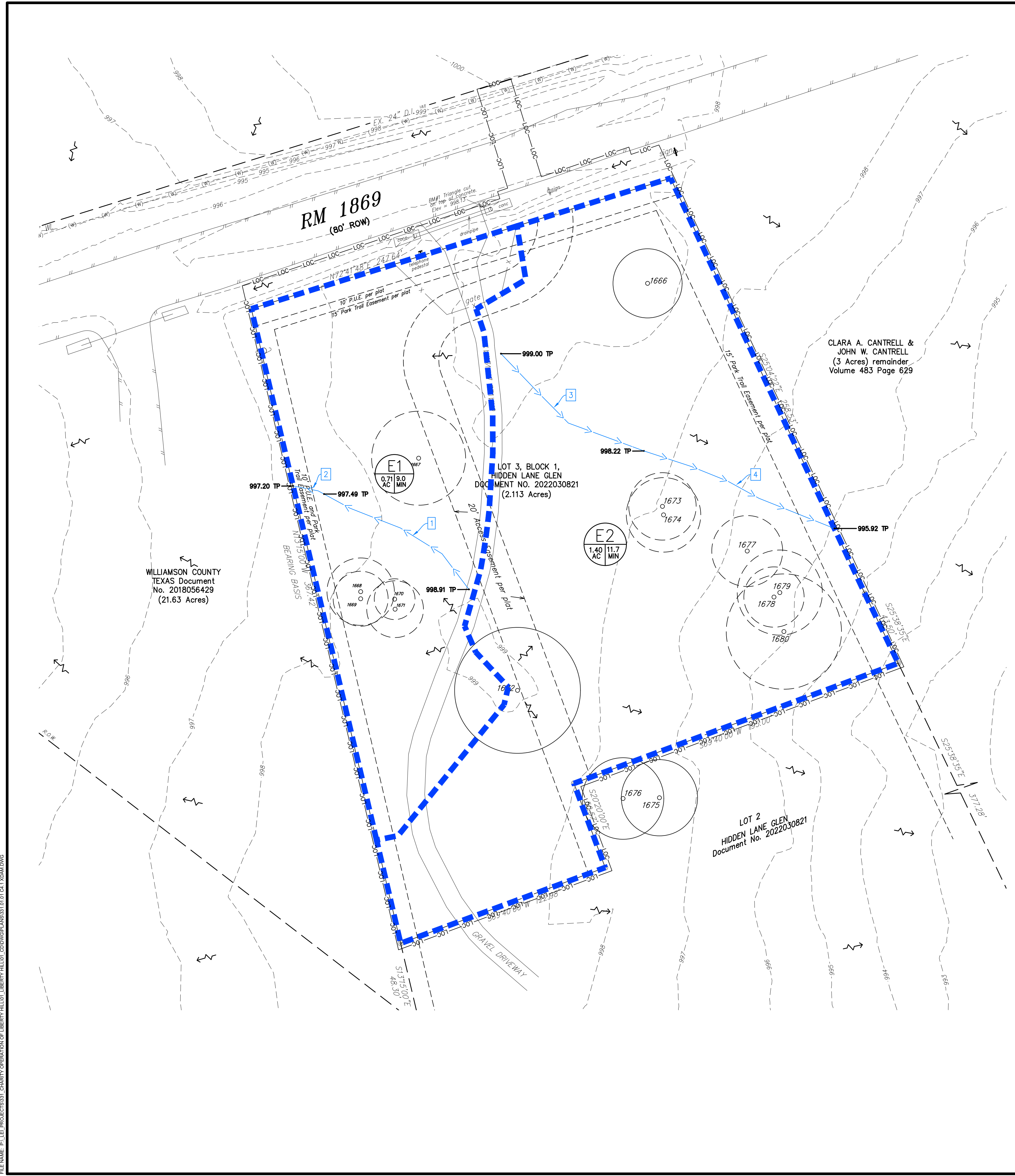
Inspection and Maintenance:

- Inspect and verify that activity based TBMPs are in place prior to the commencement of associated activities. While activities associated with the TBMP are under way, inspect weekly to verify continued TBMP implementation is functioning properly;
- inspect TBMPs subject to non-stormwater discharges daily while non-stormwater discharges occur.
- Unit-specific maintenance requirements are included with the description of each technology;
- Sediment removed during the maintenance of a dewatering device may be either spread onsite and stabilized, or disposed of at a disposal site;
- Sediment that is commingled with other pollutants must be disposed of in accordance with all applicable local and state laws and regulations.

Attachment G:
Drainage Area Maps

Attached are the Existing and Proposed Conditions Drainage Area and Water Quality Drainage Area Maps.

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LEGEND

- — — — — PROPERTY LINE
- - - - - ADJACENT PROPERTY LINE
- - - - - EASEMENT & SETBACKS
- LOC-LOC-LOC- LIMITS OF CONSTRUCTION
- - - - - CONTOUR
- — — — — 10' DRAINAGE AREA BOUNDARY
- ← — — — — TIME OF CONCENTRATION PATH
- ← — — — — FLOW ARROW
- F100 — EXISTING CONDITIONS 100YR FLOODPLAIN
- JCT1 ● HYDRAULIC JUNCTION LOCATIONS
- E5 ○ DRAINAGE AREA INFORMATION
AREA ACRES | TIME OF CONCENTRATION

Tc KEYNOTES		
SEGMENT	LENGTH (FT)	SLOPE (FT/FT)
1	100	0.014
2	18.14	0.016
3	100	0.008
4	116.2	0.02

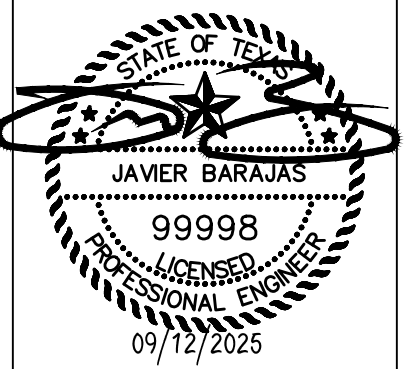
NOTE:
REFER TO ENGINEERING REPORT FOR Tc CALCULATIONS. TC CALCULATIONS PER CITY OF LIBERTY HILL GUIDELINES.

RUNOFF CALCULATIONS

EXISTING CONDITIONS RUNOFF									
BASIN AREA NO.	BASIN AREA (AC)	BASIN AREA (MI2)	RUNOFF CN	BASIN % IMP	T(tg) (min.)	RUNOFF, Q (CFS)			
						2-YR	10-YR	25-YR	100-YR
E1	0.71	0.001107	80	8.2	9.0	1.2	2.4	3.4	5.1
E2	1.40	0.002194	79	2.7	11.8	2.1	4.3	6.1	9.2

- SOURCES:
- UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE TECHNICAL RELEASE NO. 55 (2ND EDITION, JUNE 1986) 210-VI, URBAN HYDROLOGY FOR SMALL WATERSHEDS.
 - UNITED STATES ARMY CORPS OF ENGINEERS, HEC-HMS 4.9
 - NATIONAL RESOURCES CONSERVATION SERVICE - WEB SOIL SURVEY NATIONAL COOPERATIVE SOIL SURVEY.
 - ATLAS 14 RAINFALL DATA PER: "NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES FOR LIBERTY HILL, TEXAS. PDS-BASED PRECIPITATION FREQUENCY ESTIMATES WITH 905 CONFIDENCE INTERVALS (INCHES).
 - RAINFALL DEPTH DURATION AND FREQUENCY FOR SELECTED STORM EVENTS | 2-YR = 3.92 INCHES | 10-YR = 6.29 INCHES | 25-YR = 8.04 INCHES | 50-YR = 9.52 INCHES | 100-YR = 11.2 INCHES | 24-HOUR DURATION.

NO.	REVISION/ISSUE	DATE



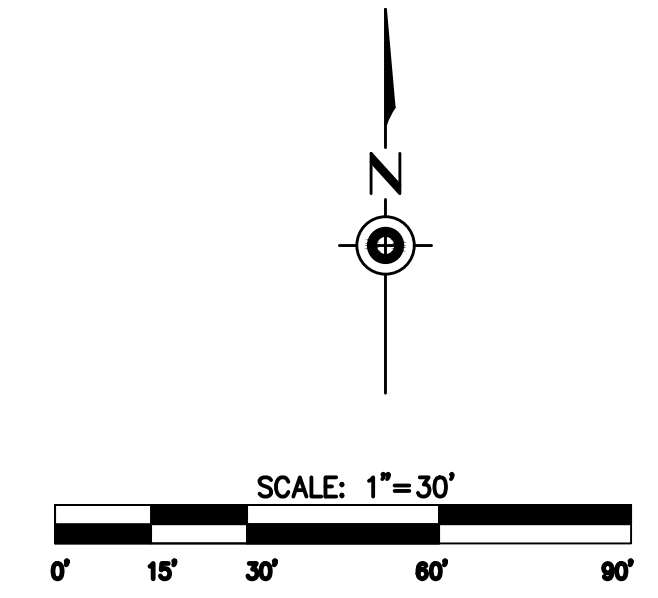
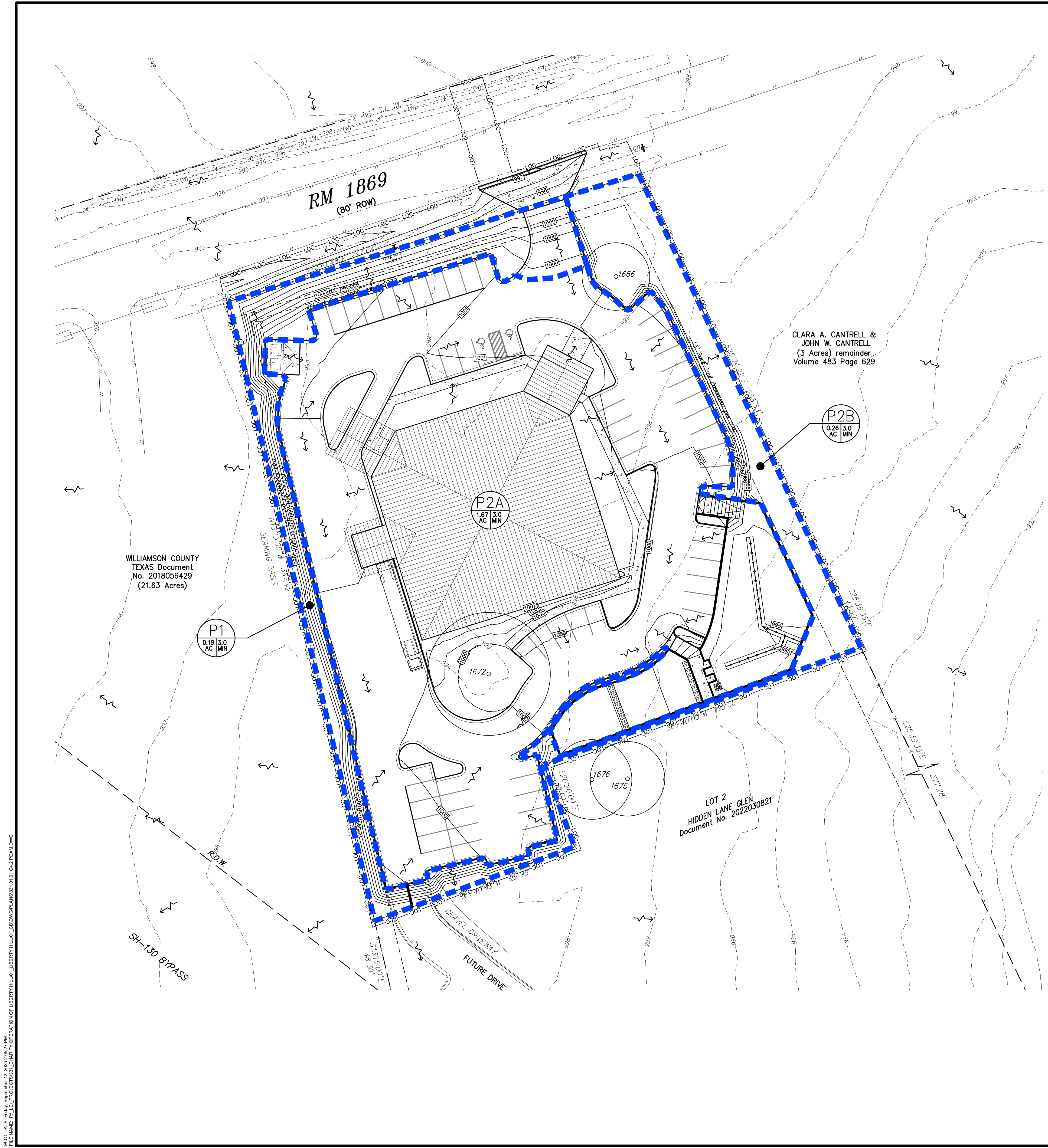
CIVIL SURVEYING CONSTRUCTION

TRINE ENGINEERING

TPE FIRM REGISTRATION No. F-22228

EXISTING DRAINAGE AREA MAP
OPERATION LIBERTY HILL
 3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No. **9** of **30**
 DATE: 09/12/2025
C4.1
 PROJECT No: 331.01.01



- LEGEND**
- PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - - - EASEMENT & SETBACKS
 - LOC-LOC-LOC- LIMITS OF CONSTRUCTION
 - - - 10' - CONTOUR
 - - - 10' - CONTOUR (1FT INTERVAL)
 - DRAINAGE AREA BOUNDARY
 - TIME OF CONCENTRATION PATH
 - FLOW ARROW
 - F100 --- EXISTING CONDITIONS 100YR FLOODPLAIN
 - JCT1 HYDRAULIC JUNCTION LOCATIONS
 - P5 DRAINAGE AREA INFORMATION
AREA ACRES | TIME OF CONCENTRATION

NOTE:
REFER TO ENGINEERING REPORT FOR Tc CALCULATIONS.
TC CALCULATIONS PER CITY OF LIBERTY HILL GUIDELINES.

RUNOFF CALCULATIONS

PROPOSED CONDITIONS RUNOFF WITHOUT DETENTION POND ATTENUATION									
BASIN AREA NO.	BASIN AREA (AC)	BASIN AREA (MI ²)	RUNOFF CN	BASIN % IMP	T(lag) (min.)	RUNOFF, Q (CFS)			
						2-YR	10-YR	25-YR	100-YR
P1	0.19	0.000291	78	0.0	3.0	0.4	0.7	1.0	1.6
P2A	1.67	0.002608	93	79.7	3.0	5.2	8.8	11.4	16.0
P2B	0.26	0.000403	80	11.5	3.0	0.5	1.1	1.5	2.2
JUNC/ OUTLET	1.93	0.003011				5.7	9.8	12.9	18.3

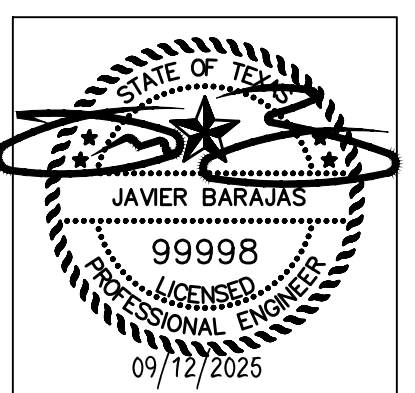
- SOURCES:
- UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE TECHNICAL RELEASE NO. 55 (2ND EDITION, JUNE 1986) 210-VI, URBEN HYDROLOGY FOR SMALL WATERSHEDS.
 - UNITED STATES ARMY CORPS OF ENGINEERS, HEC-HMS 4.9
 - NATIONAL RESOURCES CONSERVATION SERVICE - WEB SOIL SURVEY NATIONAL COOPERATIVE SOIL SURVEY.
 - ATLAS 14 RAINFALL DATA PER: "NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES FOR LIBERTY HILL, TEXAS. PDS-BASED PRECIPITATION FREQUENCY ESTIMATES WITH 905 CONFIDENCE INTERVALS (INCHES).
 - RAINFAL DEPTH DURATION AND FREQUENCY FOR SELECTED STORM EVENTS | 2-YR = 3.92 INCHES | 10-YR = 6.29 INCHES | 25-YR = 8.04 INCHES | 50-YR = 9.52 INCHES | 100-YR = 11.2 INCHES | 24-HOUR DURATION.

RUNOFF CALCULATIONS

PROPOSED CONDITIONS RUNOFF WITH DETENTION POND ATTENUATION									
BASIN AREA NO.	BASIN AREA (AC)	BASIN AREA (MI ²)	RUNOFF CN	BASIN % IMP	T(lag) (min.)	RUNOFF, Q (CFS)			
						2-YR	10-YR	25-YR	100-YR
P1	0.19	0.000291	78	0.0	3.0	0.4	0.7	1.0	1.6
P2A	1.67	0.002608	93	79.7	3.0	5.2	8.8	11.4	16.0
POND RELEASE RATE						1.8	2.5	4.7	7.2
P2B	0.26	0.000403	80	11.5	3.0	0.5	1.1	1.5	2.2
JUNC/ OUTLET	1.93	0.003011				2.2	3.2	5.4	8.5

- SOURCES:
- UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE TECHNICAL RELEASE NO. 55 (2ND EDITION, JUNE 1986) 210-VI, URBEN HYDROLOGY FOR SMALL WATERSHEDS.
 - UNITED STATES ARMY CORPS OF ENGINEERS, HEC-HMS 4.9
 - NATIONAL RESOURCES CONSERVATION SERVICE - WEB SOIL SURVEY NATIONAL COOPERATIVE SOIL SURVEY.
 - ATLAS 14 RAINFALL DATA PER: "NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES FOR LIBERTY HILL, TEXAS. PDS-BASED PRECIPITATION FREQUENCY ESTIMATES WITH 905 CONFIDENCE INTERVALS (INCHES).
 - RAINFAL DEPTH DURATION AND FREQUENCY FOR SELECTED STORM EVENTS | 2-YR = 3.92 INCHES | 10-YR = 6.29 INCHES | 25-YR = 8.04 INCHES | 50-YR = 9.52 INCHES | 100-YR = 11.2 INCHES | 24-HOUR DURATION.

DATE	
REVISION/ISSUE	
NO.	



CIVIL SURVEYING CONSTRUCTION

TRINE ENGINEERING

TXBE FIRM REGISTRATION No. F-22228

PROPOSED DRAINAGE AREA MAP

OPERATION LIBERTY HILL

3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No. **10** OF **30**

DATE: 09/12/2025

C4.2

PROJECT No: 331.01.01

2025-3-SDP

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 PLOTTER: HP DesignJet T1100e

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **OLH**
Date Prepared: **9/11/2025**

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 indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

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

where: $L_{R\text{TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project
County = **Williamson**
Total project area included in plan = **2.11** acres
Predevelopment impervious area within the limits of the plan = **0.10** acres
Total post-development impervious area within the limits of the plan = **1.36** acres
Total post-development impervious cover fraction = **0.65**
 P = **32** inches

$L_{R\text{TOTAL PROJECT}}$ = **1104** lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = **2**

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

Drainage Basin/Outfall Area No. = **1**
Total drainage basin/outfall area = **1.93** acres
Predevelopment impervious area within drainage basin/outfall area = **0.10** acres
Post-development impervious area within drainage basin/outfall area = **1.36** acres
Post-development impervious fraction within drainage basin/outfall area = **0.71**
 $L_{R\text{THIS BASIN}}$ = **1104** lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Sand Filter**
Removal efficiency = **89** percent

- Aqualogic Cartridge Filter
- Bioretention
- Contech StormFilter
- Constructed Wetland
- Extended Detention
- Grassy Swale
- Retention / Irrigation
- Sand Filter
- Stormceptor
- Vegetated Filter Strips
- Vortechs
- 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 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where: A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = **1.93** acres
 A_i = **1.36** acres
 A_p = **0.56** acres
 L_R = **1353** lbs

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

Desired $L_{R\text{THIS BASIN}}$ = **1160** lbs.

F = **0.86**

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

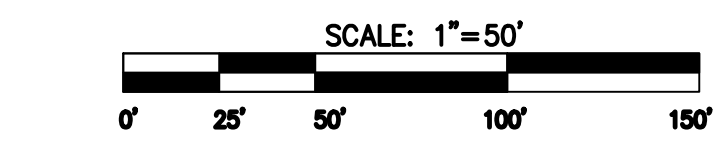
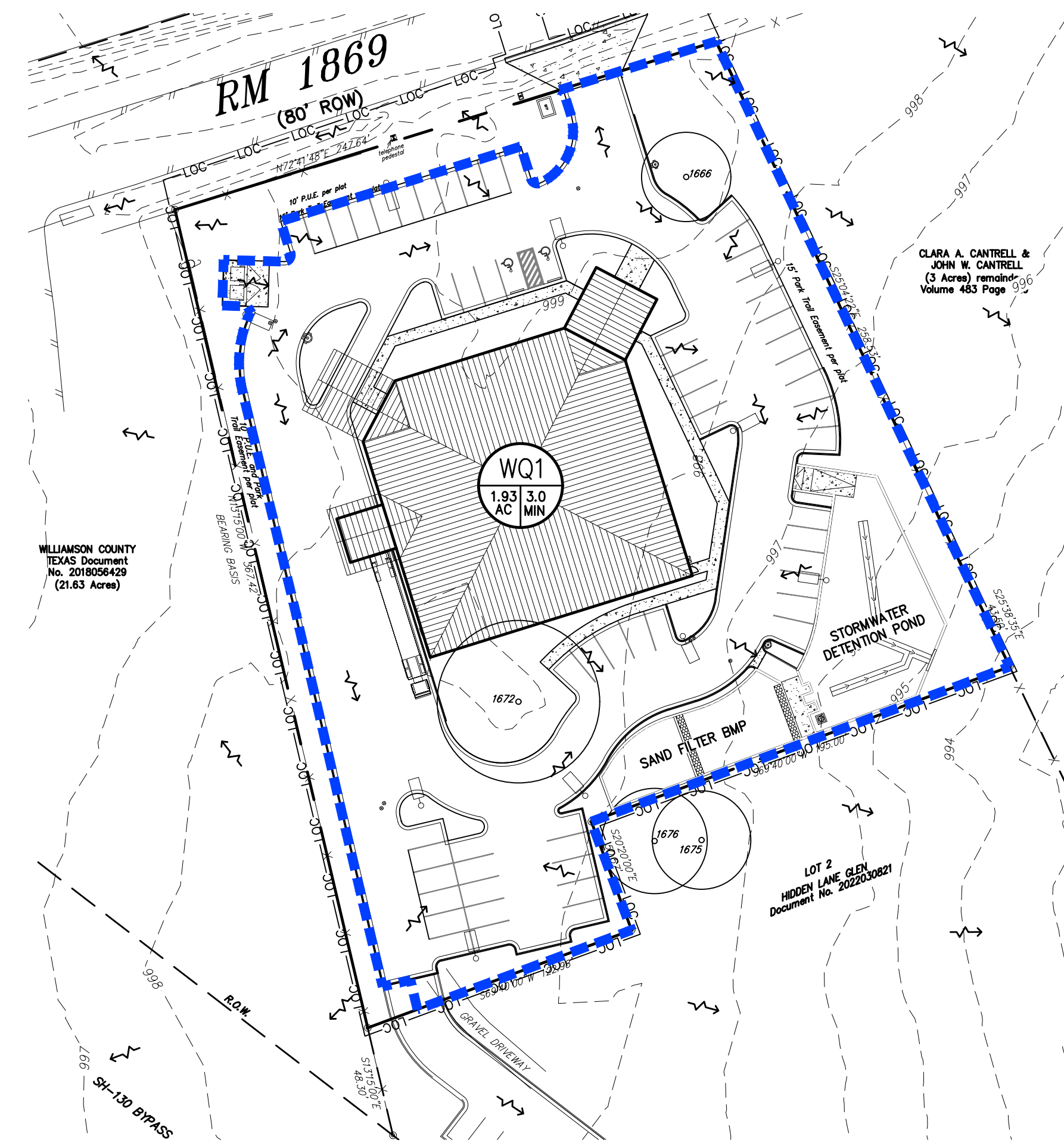
Rainfall Depth = **1.38** inches
Post Development Runoff Coefficient = **0.51**
On-site Water Quality Volume = **4961** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

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

Storage for Sediment = **992** cubic feet
Total Capture Volume (required water quality volume(s) x 1.20) = **5953** cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP. The values for BMP Types not selected in cell C45 will show NA.



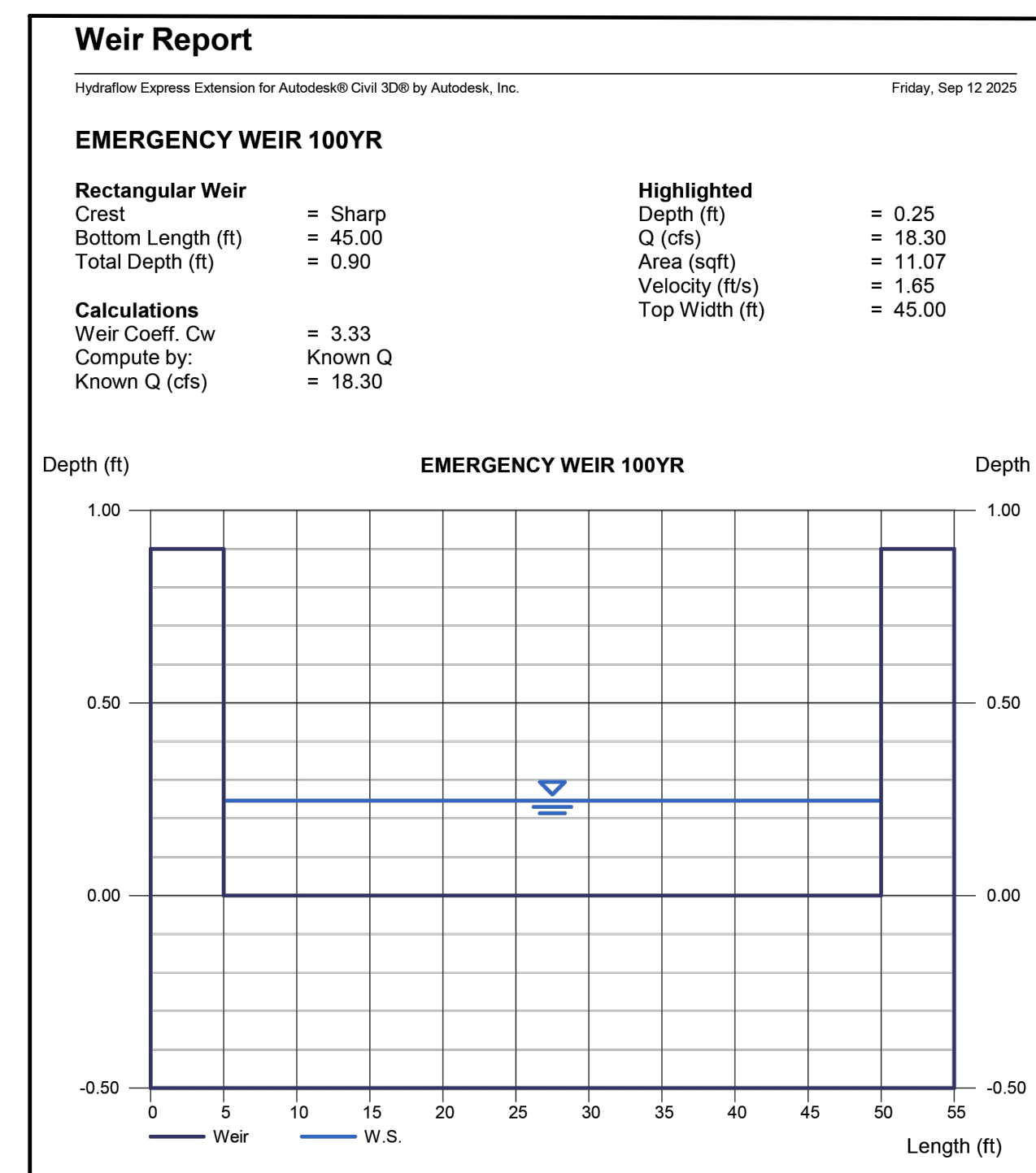
LEGEND

- PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- - - EASEMENT & SETBACKS
- - - LIMITS OF CONSTRUCTION
- - - EDGE OF PAVEMENT
- x - x - WIRE FENCE
- - - CONTOUR
- - - DRAINAGE AREA BOUNDARY
- - - TIME OF CONCENTRATION PATH
- - - FLOW ARROW

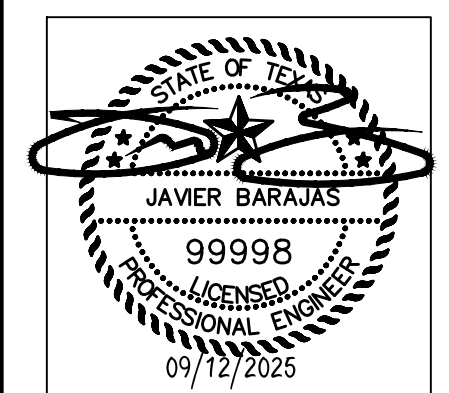


WATER QUALITY DRAINAGE BASIN
AREA ACRES | TIME OF CONCENTRATION

WATER QUALITY POND VOLUME CALCULATIONS/WATER QUALITY VOLUME PROVIDED			
SEDIMENTATION POND:		STEP INTERVAL = 0.50 FT.	
STAGE (FT. MSL)*	AREA (SF)	STORAGE (CF)	CUM. STORAGE (CF)
996.50	0.00	0	0
997.00	696.68	174	174
997.50	1320.92	504	679
998.00	1337.90	665	1,343
998.50	1354.99	673	2,016
999.00	1372.21	682	2,698
999.30	1389.55	414	3,113
* INPUT AT ONE FOOT OR LESS INCREMENTS			
FILTRATION POND:		STEP INTERVAL = 0.50 FT.	
STAGE (FT. MSL)*	AREA (SF)	STORAGE (CF)	CUM. STORAGE (CF)
996.50	958.81	0	0
997.00	972.13	483	483
997.50	985.59	489	972
998.00	999.10	496	1,468
998.50	1012.70	503	1,971
999.00	1026.38	510	2,481
999.30	1040.14	310	2,791
		TOTAL	5,904
* INPUT AT ONE FOOT OR LESS INCREMENTS			
NOTES:			
1. TOTAL VOLUME IS THE WATER QUALITY CAPTURE VOLUME PER WEIR ELEVATION. TOP OF WALL HEIGHT IS 1-FOOT ABOVE THE WEIR CAPTURE VOLUME ELEVATION.			
2. WATER QUALITY CAPTURE VOLUME IS EXCEEDED IN BOTH PONDS TO COMPENSATE FOR THE FREE-RELEASE OF AREA C.			
3. WATER QUALITY CAPTURE VOLUME CALCULATIONS PER TEXAS COMMISSION ON ENVIRONMENTAL QUALITY TOTAL SUSPENDED SOLIDS (TSS) REMOVAL CALCULATIONS WORKSHEET, DATED 04/20/2009.			
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY			
PROJECT TOTAL TSS REQUIRED REMOVAL		1,104 LBS	
POND TSS REMOVAL PROVIDED		1,160 LBS	
TOTAL PROPOSED REMOVAL		1,180 LBS	



DATE	
REVISION/ISSUE	
NO.	



CIVIL SURVEYING CONSTRUCTION

TRINE ENGINEERING

WATER QUALITY DRAINAGE AREA MAP
OPERATION LIBERTY HILL
3737 RANCH TO MARKET 1869 LIBERTY HILL, TEXAS 78642

SHEET No. **17** of **30**
DATE: 09/12/2025
C7.0
PROJECT No: 331.01.01

2025-3-SDP

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Attachment H:
Temporary Sediment Pond(s) Plans and Calculations

NOT APPLICABLE

Temporary BMPs including rock berm, mulch logs (erosion control logs for inlet protection), silt fencing and a stabilized construction entrance will be installed to prevent pollution of surface water, ground water and stormwater and retain sediment on-site to the greatest extent practicable. There are no sediment ponds are being provide.

Attachment I:
Inspection and Maintenance for
BMPs

The following bulleted items are a general schedule for the installation and inspection of the temporary Erosion and Sedimentation Controls for the subject project. The Erosion and Sedimentation Controls shall be installed as indicated on the approved plan set prior to commencing any site disturbance. An on-site pre-construction meeting shall be held after installing the Erosion and Sedimentation Controls and prior to commencing construction. The following individuals shall be in attendance, Contractor, Owner, Design Engineer, City Inspector and any Sub-contractors.

- Inspect Erosion and Sedimentation Controls weekly and prior to and immediately after rainfall events. Controls may be revised based upon inspection findings to further protect or enhance BMPs depicted in the approved plan set. Maintenance and repairs shall be conducted as soon as possible, before the next inspection and before a rainfall event. Changes to the SW3P must be recorded according to guidelines found in the TCEQ General Permit (TXR150000).
- Silt buildup shall be removed periodically to prevent BMPs from failing or underperforming their intended task. Replace any BMPs that are not or will not work properly prior to the next rainfall event, replace when design capacity has been reduced to 50%.
- Once construction is complete, all disturbed areas shall be revegetated as specified in the approved site plan General Notes. Do not remove BMPs until instructed to do so by City Inspector. Approval will be achieved when vegetation has been reestablished.
- Recordkeeping is required for each inspection. An SW3P Inspection Report Template is attached here. All reports shall be kept on-site and available when requested by any regulating entity that visits the site.
- All BMP control measures must be properly installed and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant, TCEQ executive director, City inspector, or other information indicates control has been used inappropriately, or incorrectly, the responsible party for installing and maintaining the controls will be directed/responsible to replace or modify the control for site situations.
- If sediment escapes the construction site, off-site accumulation of sediment must be removed at a frequency sufficient to minimize off-site impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rainfall event). Mud, debris and/or rocks tracked onto street shall be cleaned up immediately.

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

Attached is an inspection template "SW3P Weekly Inspection Report" that can be reproduce by the contractor's qualified inspector for use in performing weekly TBMP inspections.

The SWP3 Inspector conducting these inspections must be knowledgeable of the Construction General Permit, the construction activities at the site, and the SWP3 for the site.

Requirements for Inspections

- Inspect all stormwater controls (including sediment and erosion control measures identified in the SWP3) to ensure that they are installed properly, appear to be operational, and minimizing pollutants in discharges, as intended.
- Identify locations on the construction site where new or modified stormwater controls are necessary.
- Check for signs of visible erosion and sedimentation that can be attributed to the points of discharge where discharges leave the construction site or discharge into any surface water in the state flowing within or adjacent to the construction site.
- Identify any incidents of noncompliance observed during the inspection.
- Inspect locations where vehicles enter or exit the site for evidence of off-site sediment tracking.
- If an inspection is performed when discharges from the construction site are occurring: identify all discharge points at the site, observe and document the visual quality of the discharge (i.e., color, odor, floating, settled, or suspended solids, foam, oil sheen, and other such indicators of pollutants in stormwater).
- Complete any necessary maintenance needed, based on the results of the inspection and in accordance with the requirements listed in Part III.F.6 above.
- Update the SWP3 Site Map.

Attachment J:
Scheduled of Interim and
Permanent Soil Stabilization Practices

Records shall be kept on site of the dates which major grading activities occur, the dates of when construction activities temporarily or permanently cease on a portion of the site and the dates when stabilization measures as initiated. The contractor shall begin revegetating area where work has ceased within 14-days if activity in that area will exceed 21 days.

Revegetation of disturbed areas will be with native grass seeding, by hydro-mulching (native or non-native seeds) or sod. The required seeding, fertilizer and watering rates can be found in the approved site plan General Construction Notes.

NOTICE OF INTENET (NOI)
TCEQ FORM 20022



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

IMPORTANT INFORMATION

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

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

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

ePERMITS

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

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

APPLICATION FEE AND PAYMENT

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

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

Provide your payment information for verification of payment:

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

RENEWAL (This portion of the NOI is not applicable after June 3, 2018)

Is this NOI for a renewal of an existing authorization? Yes No

If Yes, provide the authorization number here: TXR15

NOTE: If an authorization number is not provided, a new number will be assigned.

SECTION 1. OPERATOR (APPLICANT)

a) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? CN

(Refer to Section 1.a) of the Instructions)

b) What is the Legal Name of the entity (applicant) applying for this permit? (The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

c) What is the contact information for the Operator (Responsible Authority)?

Prefix (Mr. Ms. Miss):

First and Last Name: Suffix:

Title: Credentials:

Phone Number: Fax Number:

E-mail:

Mailing Address:

City, State, and Zip Code:

Mailing Information if outside USA:

Territory:

Country Code: Postal Code:

d) Indicate the type of customer:

- | | |
|---|---|
| <input type="checkbox"/> Individual | <input type="checkbox"/> Federal Government |
| <input type="checkbox"/> Limited Partnership | <input type="checkbox"/> County Government |
| <input type="checkbox"/> General Partnership | <input type="checkbox"/> State Government |
| <input type="checkbox"/> Trust | <input type="checkbox"/> City Government |
| <input type="checkbox"/> Sole Proprietorship (D.B.A.) | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> Corporation | <input type="checkbox"/> Other: |
| <input type="checkbox"/> Estate | |

e) Is the applicant an independent operator? Yes No

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

f) Number of Employees. Select the range applicable to your company.

0-20

251-500

21-100

501 or higher

101-250

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

State Franchise Tax ID Number:

Federal Tax ID:

Texas Secretary of State Charter (filing) Number:

DUNS Number (if known):

SECTION 2. APPLICATION CONTACT

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

Yes, go to Section 3

No, complete this section

Prefix (Mr. Ms. Miss):

First and Last Name: Suffix:

Title: Credential:

Organization Name:

Phone Number: Fax Number:

E-mail:

Mailing Address:

Internal Routing (Mail Code, Etc.):

City, State, and Zip Code:

Mailing information if outside USA:

Territory:

Country Code: Postal Code:

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

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

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

b) Name of project or site (the name known by the community where it's located):

c) In your own words, briefly describe the type of construction occurring at the regulated site (residential, industrial, commercial, or other):

- d) County or Counties (if located in more than one):
- e) Latitude: Longitude:
- f) Site Address/Location

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

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

Section A:

Street Number and Name:

City, State, and Zip Code:

Section B:

Location Description:

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

Zip Code where the site is located:

SECTION 4. GENERAL CHARACTERISTICS

- a) Is the project or site located on Indian Country Lands?
 - Yes, do not submit this form. You must obtain authorization through EPA Region 6.
 - No
- b) Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources?
 - Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6.
 - No
- c) What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site?
- d) What is the Secondary SIC Code(s), if applicable?
- e) What is the total number of acres to be disturbed?
- f) Is the project part of a larger common plan of development or sale?
 - Yes
 - No. The total number of acres disturbed, provided in e) above, must be 5 or more. If the total number of acres disturbed is less than 5, do not submit this form. See the requirements in the general permit for small construction sites.
- g) What is the estimated start date of the project?

- h) What is the estimated end date of the project?
- i) Will concrete truck washout be performed at the site? Yes No
- j) What is the name of the first water body(ies) to receive the stormwater runoff or potential runoff from the site?
- k) What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach?
- l) Is the discharge into a Municipal Separate Storm Sewer System (MS4)?
 Yes No

If Yes, provide the name of the MS4 operator:

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

- m) Is the discharge or potential discharge from the site within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, as defined in 30 TAC Chapter 213?
 Yes, complete the certification below.
 No, go to Section 5

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

SECTION 5. NOI CERTIFICATION

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

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


SECTION 6. APPLICANT CERTIFICATION SIGNATURE

Operator Signatory Name:

Operator Signatory Title:

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

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

Signature (use blue ink):  Date: 11/4/25

NOTICE OF INTENT CHECKLIST (TXR150000)

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

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

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

APPLICATION FEE

If paying by check:

- Check was mailed **separately** to the TCEQs Cashier's Office. (See Instructions for Cashier's address and Application address.)
- Check number and name on check is provided in this application.

If using ePay:

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

RENEWAL

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

OPERATOR INFORMATION

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

REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

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

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

GENERAL CHARACTERISTICS

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

CERTIFICATION

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

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

GENERAL INFORMATION

Where to Send the Notice of Intent (NOI):

By Regular Mail:
TCEQ
Stormwater Processing Center (MC228)
P.O. Box 13087
Austin, Texas 78711-3087

By Overnight or Express Mail:
TCEQ
Stormwater Processing Center (MC228)
12100 Park 35 Circle
Austin, TX

Application Fee:

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

Mailed Payments:

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

ePAY Electronic Payment: <http://www.tceq.texas.gov/epay>

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

TCEQ Contact List:

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

Notice of Intent Process:

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

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

above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.

- **Acknowledgment of Coverage:** An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit.

or

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

General Permit (Your Permit)

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

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

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

Change in Operator

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

TCEQ Central Registry Core Data Form

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

For existing customers and sites, you can find the Customer Number and Regulated Entity Number by entering the following web address into your internet browser:

<http://www15.tceq.texas.gov/crpub/> or you can contact the TCEQ Stormwater Processing Center at 512-239-3700 for assistance. On the website, you can search by your permit number, the Regulated Entity (RN) number, or the Customer Number (CN). If you do not know these numbers, you can select "Advanced Search" to search by permittee name, site address, etc.

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

INSTRUCTIONS FOR FILLING OUT THE NOI FORM

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

Section 1. OPERATOR (APPLICANT)

a) Customer Number (CN)

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

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

b) Legal Name of Applicant

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

c) Contact Information for the Applicant (Responsible Authority)

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

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

The phone number should provide contact to the applicant.

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

d) Type of Customer (Entity Type)

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

Individual

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

Partnership

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

Trust or Estate

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

Sole Proprietorship (DBA)

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

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

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

Corporation

A customer that meets all of these conditions:

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

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

Government

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

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

Other

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

e) Independent Entity

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

f) Number of Employees

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

g) Customer Business Tax and Filing Numbers

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

State Franchise Tax ID Number

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

Federal Tax ID

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

TX SOS Charter (filing) Number

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

DUNS Number

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

Section 2. APPLICATION CONTACT

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

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

a) Regulated Entity Number (RN)

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

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

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

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

b) Name of the Project or Site

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

c) Description of Activity Regulated

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

d) County

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

e) Latitude and Longitude

Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to:

<http://www.tceq.texas.gov/gis/sqmaview.html>.

f) Site Address/Location

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

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

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

Section 4. GENERAL CHARACTERISTICS

a) Indian Country Lands

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

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

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

Construction activities associated with a facility related to oil, gas or geothermal resources may include the construction of a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel.

Where required by federal law, discharges of stormwater associated with construction activities under the RRC's jurisdiction must be authorized by the EPA and the RRC, as applicable. Activities under RRC jurisdiction include construction of a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources, such as a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility under the jurisdiction of the RRC; and a gathering, transmission, or distribution pipeline that will transport crude oil or

natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel. The RRC also has jurisdiction over stormwater from land disturbance associated with a site survey that is conducted prior to construction of a facility that would be regulated by the RRC. Under 33 U.S.C. §1342(l)(2) and §1362(24), EPA cannot require a permit for discharges of stormwater from field activities or operations associated with {oil and gas} exploration, production, processing, or treatment operations, or transmission facilities, including activities necessary to prepare a site for drilling and for the movement and placement of drilling equipment, whether or not such field activities or operations may be considered to be construction activities unless the discharge is contaminated by contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the facility. Under §3.8 of this title (relating to Water Protection), the RRC prohibits operators from causing or allowing pollution of surface or subsurface water. Operators are encouraged to implement and maintain best management practices (BMPs) to minimize discharges of pollutants, including sediment, in stormwater during construction activities to help ensure protection of surface water quality during storm events.

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

[http://texreg.sos.state.tx.us/public/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=30](http://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=30) or contact the TCEQ Stormwater Team at 512-239-4671 for additional information.

c) Primary Standard Industrial Classification (SIC) Code

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

Common SIC Codes related to construction activities include:

- 1521 - Construction of Single Family Homes
- 1522 - Construction of Residential Buildings Other than Single Family Homes
- 1541 - Construction of Industrial Buildings and Warehouses
- 1542 - Construction of Non-residential Buildings, other than Industrial Buildings and Warehouses
- 1611 - Highway and Street Construction, except Highway Construction
- 1622 - Bridge, Tunnel, and Elevated Highway Construction
- 1623 - Water, Sewer, Pipeline and Communications, and Power Line Construction

For help with SIC Codes, enter the following link into your internet browser:

<http://www.osha.gov/pls/imis/sicsearch.html> or you can contact the TCEQ Small Business and Local Government Assistance Section at 800-447-2827 for assistance.

d) Secondary SIC Code

Secondary SIC Code(s) may be provided. Leave this blank if not applicable. For help with SIC Codes, enter the following link into your internet browser:

<http://www.osha.gov/pls/imis/sicsearch.html> or you can contact the TCEQ Small Business and Environmental Assistance Section at 800-447-2827 for assistance.

e) Total Number of Acres Disturbed

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

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

f) Common Plan of Development

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

For more information on what a common plan of development is, refer to the definition of “Common Plan of Development” in the Definitions section of the general permit or enter the following link into your internet browser:

www.tceq.texas.gov/permitting/stormwater/common_plan_of_development_steps.html

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

g) Estimated Start Date of the Project

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

h) Estimated End Date of the Project

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

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

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

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

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

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

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

Identify the classified segment number(s) receiving a discharge directly or indirectly. Enter the following link into your internet browser to find the segment number of the classified water body where stormwater will flow from the site:

www.tceq.texas.gov/waterquality/monitoring/viewer.html or by contacting the TCEQ Water Quality Division at (512) 239-4671 for assistance.

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

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

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

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

l) Discharge into MS4 - Identify the MS4 Operator

The discharge may initially be into a municipal separate storm sewer system (MS4). If the stormwater discharge is into an MS4, provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, county, or utility district, but possibly can be another form of government. Please note that the Construction General Permit requires the Operator to supply the MS4 with a copy of the NOI submitted to TCEQ. For assistance, you may call the technical staff at 512-239-4671.

m) Discharges to the Edwards Aquifer Recharge Zone and Certification

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

See maps on the TCEQ website to determine if the site is located within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer by entering the following link into an internet browser:

www.tceq.texas.gov/field/eapp/viewer.html or by contacting the TCEQ Water Quality Division at 512-239-4671 for assistance.

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

For questions regarding the Edwards Aquifer Protection Program, contact the appropriate TCEQ Regional Office. For projects in Hays, Travis and Williamson Counties: Austin Regional Office, 12100 Park 35 Circle, Austin, TX 78753, 512-339-

2929. For Projects in Bexar, Comal, Kinney, Medina and Uvalde Counties: TCEQ San Antonio Regional Office, 14250 Judson Rd., San Antonio, TX 78233-4480, 210-490-3096.

Section 5. NOI CERTIFICATION

Note: Failure to indicate Yes to all of the certification items may result in denial of coverage under the general permit.

a) Certification of Understanding the Terms and Conditions of Construction General Permit (TXR150000)

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

b) Certification of Legal Name

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

c) Understanding of Notice of Termination

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

d) Certification of Stormwater Pollution Prevention Plan

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

Section 6. APPLICANT CERTIFICATION SIGNATURE

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

If you are a corporation:

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

procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

If you are a municipality or other government entity:

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

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

30 Texas Administrative Code

§305.44. Signatories to Applications

(a) All applications shall be signed as follows.

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

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

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

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

Texas Commission on Environmental Quality General Permit Payment Submittal Form

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

Instructions:

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

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

By Regular U.S. Mail

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, TX 78711-3088

By Overnight or Express Mail

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, TX 78753

Fee Code: GPA General Permit: TXR150000

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

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

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

Project/Site (RE) Name:

Project/Site (RE) Physical Address:

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

AGENT AUTHORIZATION FORM
TCEQ FORM 0599

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

I _____ Larry J. Gabel _____
Print Name

_____ BOARD MEMBER PROJECT LIASON _____
Title - Owner/President/Other

of _____ Operation Liberty Hill _____
Corporation/Partnership/Entity Name

have authorized _____ Javier Barajas, P.E. _____
Print Name of Agent/Engineer

of _____ Trine Engineering, PLLC _____
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:

[Handwritten Signature]
Applicant's Signature

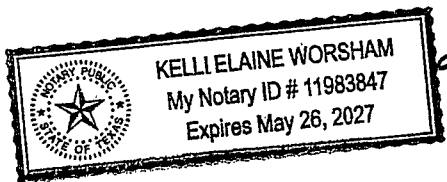
10/6/25
Date

THE STATE OF TEXAS §
County of WILLIAMSON §

BEFORE ME, the undersigned authority, on this day personally appeared Larry J. Gabel 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 6th day of October, 2025

Kelli Elaine Worsham
NOTARY PUBLIC



Kelli Elaine Worsham
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 05/26/27

APPLICATION FEE FORM
TCEQ FORM 0574

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Operation Liberty Hill

Regulated Entity Location: 3737 Ranch Road 1869

Name of Customer: Operation Liberty Hill

Contact Person: Larry J. Gabel

Phone: (512) 844-9884

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

12100 Park 35 Circle

Mail Code 214

Building A, 3rd Floor

P.O. Box 13088

Austin, TX 78753

Austin, TX 78711-3088

(512)239-0357


Site Location (Check All That Apply):

Recharge Zone

Contributing Zone

Transition Zone

<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	2.113 Acres	\$ 4,000
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: 11/4/25

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

CHECK PAYABLE TO TCEQ

CORE DATA FORM
TCEQ FORM 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)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
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:	
Operation Liberty Hill			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0801552569	32047051743	80-0788990	079605701
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input checked="" type="checkbox"/> Other: Non-Profit Corporation	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input 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 type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input checked="" type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
15. Mailing Address:	1401 N US Highway 183		
	City	Leander	State TX ZIP 78641 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		larryjgabel@gmail.com	
18. Telephone Number		19. Extension or Code	
(512) 778-4175			
		20. Fax Number (if applicable)	
		() -	

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.)	
Operation Liberty Hill	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	Operation Liberty Hill							
	3737 Ranch Road 1869							
	City	Liberty Hill	State	TX	ZIP	78642	ZIP + 4	
24. County	Williamson							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:								
26. Nearest City	State					Nearest ZIP Code		
27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:					
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	39	43.2	-97	55	44.4			
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)		
8399				459999				
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>								
34. Mailing Address:	Operation Liberty Hill							
	1401 N US Highway 183							
	City	Leander	State	TX	ZIP	78641	ZIP + 4	
35. E-Mail Address:		larryjgabel@gmail.com						
36. Telephone Number			37. Extension or Code			38. Fax Number <i>(if applicable)</i>		
(512) 778-4175						() -		

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 checked="" 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:	Javier Barajas, P.E.	41. Title:	Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 913-5080		() -	jbarajas@trineengineering.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:	Trine Engineering, PLLC	Job Title:	Engineer
Name <i>(In Print)</i> :	Javier Barajas, P.E.	Phone:	(512) 913- 5080
Signature:		Date:	8/25/2025

