MAC HAIK QUICK LANE

1040 Merrill Drive

LEANDER, TX 78641

T.C.E.Q. EDWARDS AQUIFER PROTECTION PLAN CZP

PREPARED FOR

MAC HAIK LEANDER REALITY, LLC

April 2024

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: Mac Haik Quick Lane						**2. Regulated Entity No.:**			
3. Customer Name: MH Leander Realty LLC						**4. Customer No.:**			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential			**8. Site (acres):**		5.725	
9. Application Fee:	$5000		**10. Permanent BMP(s):**			Two (2) Batch Ponds			
11. SCS (Linear Ft.):			**12. AST/UST (No. Tanks):**						
13. County:	Williamson		**14. Watershed:**			Brushy Creek			

Application Distribution

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

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

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

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

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

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.
Anthony Goode
Print Name of Customer/Authorized Agent 4/2/2024
Signature of Customer/Authorized Agent Date

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

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.

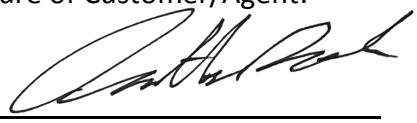
Signature

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: Anthony Goode

Date: 4/2/2024

Signature of Customer/Agent:



Regulated Entity Name: Mac Haik Quick Lane

Project Information

1. County: Williamson
2. Stream Basin: Brushy Creek
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

   Contact Person: Scott Hartley
   Entity: MH Leander Reality, LLC
   Mailing Address: 11750 Katy FWY STE 1300
   City, State: Houston, TX Zip: 77079
   Telephone: (281) 979-2520 Fax: _____
   Email Address: shartley@machaik.net

5. Agent/Representative (If any):

Contact Person: Anthony Goode
Entity: Goode Faith Engineering
Mailing Address: 1620 La Jaita DR. Suite 300
City, State: Ceder Park, TX Zip: 78613
Telephone: (972) 822-1682 Fax: _____
Email Address: anthony@goodefaitheng.com

6. Project Location:

[X] The project site is located inside the city limits of Leander.
[ ] 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.

_____

8. [X] **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. [X] **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:

[X] Project site boundaries.
[X] USGS Quadrangle Name(s).

10. [X] **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:

[X] Area of the site
[X] Offsite areas
[X] Impervious cover
[X] Permanent BMP(s)
[X] Proposed site use
[X] Site history
[X] Previous development
[X] Area(s) to be demolished

11. Existing project site conditions are noted below:

[ ] Existing commercial site
[ ] Existing industrial site
[ ] Existing residential site

☐ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☐ Undeveloped (Undisturbed/Not cleared)
☒ Other: Majority of site is undisturbed/not cleared with exception of part of an old asphalt drive (0.015 acres)

12. The type of project is:

☐ Residential: # of Lots: _____
☐ Residential: # of Living Unit Equivalents: _____
☒ Commercial
☐ Industrial
☐ Other: _____

13. Total project area (size of site): 5.725 Acres

Total disturbed area: 3.62 Acres

14. Estimated projected population: NA

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

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	*Sq. Ft.*	*Sq. Ft./Acre*	*Acres*
Structures/Rooftops	47,480	÷ 43,560 =	1.09
Parking	30,056	÷ 43,560 =	0.69
Other paved surfaces	67,082	÷ 43,560 =	1.54
Total Impervious Cover	144,619	÷ 43,560 =	3.32

*These numbers are for total build-out. Current proposed site development plus possible future development.

Total Impervious Cover 3.32 **÷ Total Acreage** 5.725 **X 100 =** 58 **% Impervious Cover**

16. ☒ **Attachment D - Factors Affecting Surface Water Quality**. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. ☐ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

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

☒ N/A

18. Type of project:

- ☐ TXDOT road project.
- ☐ County road or roads built to county specifications.
- ☐ City thoroughfare or roads to be dedicated to a municipality.
- ☐ Street or road providing access to private driveways.

19. Type of pavement or road surface to be used:

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

20. Right of Way (R.O.W.):

Length of R.O.W.: _____ feet.
Width of R.O.W.: _____ feet.
L x W = _____Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.

21. Pavement Area:

Length of pavement area: _____ feet.
Width of pavement area: _____ feet.
L x W = _____Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.
Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = _____% impervious cover.

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

☐ A rest stop will not be included in this project.

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

☒ N/A

26. Wastewater will be disposed of by:

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

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

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

☒ Sewage Collection System (Sewer Lines):
The sewage collection system will convey the wastewater to the City of Leander (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

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
1			
2			
3			
4			
5			

Total x 1.5 = _____ Gallons

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

one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

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

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

Table 3 - Secondary Containment

Length (L)(Ft.)	*Width(W)(Ft.)*	*Height (H)(Ft.)*	*L x W x H = (Ft3)*	*Gallons*

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" = _____'.

35. 100-year floodplain boundaries:

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

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

    The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA firm panel 48491C0455F as dated 12/20/2019, for Williamson County, Texas

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

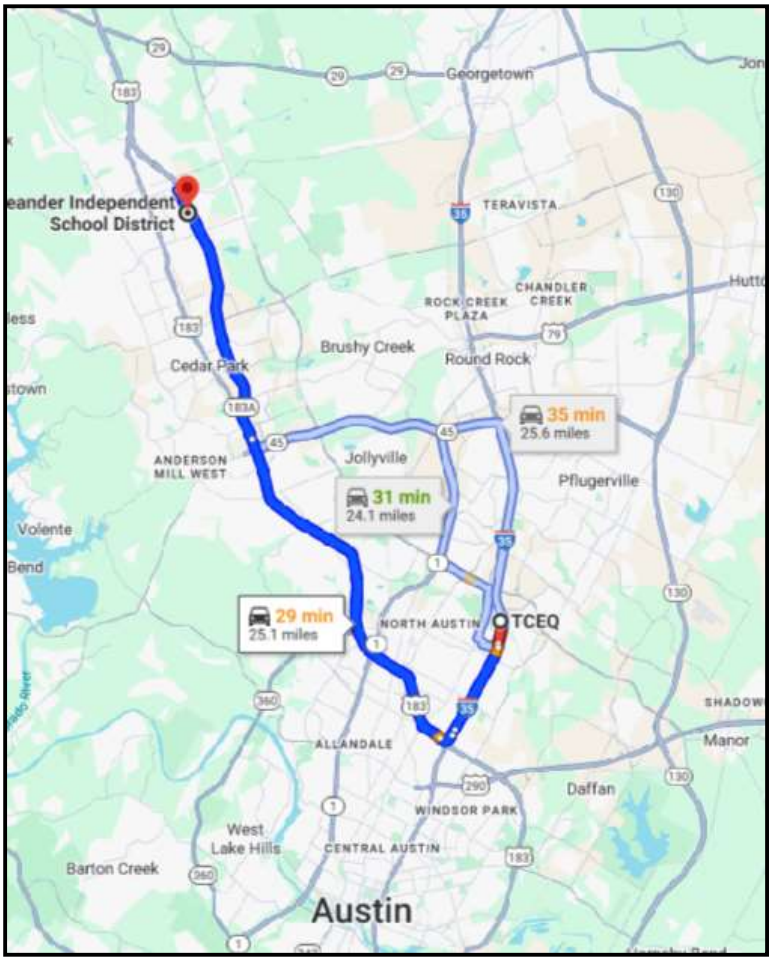
61. ☐ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.

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



TCEQ

12100 Park 35 Cir, Austin, TX 78753

- Get on I-35 S from S I-35 Frontage Rd

  2 min (1.0 mi)

- Take US-183 N and Route 183A N to 183A Frontage Rd in Williamson County. Take the exit toward RM 2243/Hero Way from Route 183A N

  21 min (23.0 mi)

- Continue on 183A Frontage Rd to your destination

  2 min (1.1 mi)

ATTACHMENT B - USGS QUADRANGLE MAP

ATTACHMENT C – PROJECT NARRATIVE

The site is comprised of two lots which total approximately 5.725 acres and is in Leander, Texas. The two lots making up the site are R 305748 (4.723 acres) and R031360 (1.0022 acres). The site is located along US 183 Toll, south of Merrill Drive, north of Woodview Drive and directly to the east of Hills of Leander Senior Apartments. Much of the site is currently undeveloped except for a small area of asphalt drive. Improvements will consist of one +/- 16,800 SF retail (Auto Services) building, two (2) Batch Detention ponds, as well as parking and drive aisles.

The Project is located within the Brushy Creek watershed and no portion of this Project property is within the 100-year floodplain as per FEMA firm panel 48491C0455F as dated 12/20/2019, for Williamson County, Texas. The project is in the Edward's Aquifer Contributing Zone; water quality controls are required. The project will have two (2) batch detention ponds. These BMPs will provide a minimum removal of 80% of the TSS.

Under existing conditions, the entire site drains generally to the east. There is an offsite fully developed adjacent property (18-SD-006) with an existing pond that drains through the southwest corner of the site. The total offsite area being treated by the two proposed batch ponds is 0.49 acres with an offsite impervious cover of 0.12 acres.

The existing CN for the proposed undeveloped areas is determined to be an 84. All proposed impervious cover was assigned a CN of 98. The total project area is 5.725 acres, and the total impervious cover being proposed with this current development is 1.62 acres or 28%. Pond S is designed for full build out with the possibility of future development for a total of 75% impervious cover. The impervious cover for the current development for the drainage area for Pond S is 0.22 acres therefore impervious cover added in future development can be no more than 1.63 acres . The site with current proposed development plus future development would have a total impervious cover of 3.25 acres or 57%.

Items to be demolished include 1209 LF of fencing and +/- 1499 SF of existing asphalt drive. Please see the following documents;

- EXISTING CONDITIONS AND DEMOLITION PLAN-PUBLIC IMPROVEMENTS CONSTRUCTION PLAN
- EXISTING CONDITIONS AND DEMOLITION PLAN-MINOR SITE DEVELOPMENT PLAN
- SITE DEVELOPMENT PLAN- EXISTING CONDITIONS & DEMOLITION PLAN SHEET 5

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- LOC — LIMITS OF CONSTRUCTION
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. SITE - DEMO
- EX. BW FENCE - DEMO
- EX. BW FENCE
- EX. METAL FENCE
- EX. WATER LINE
- EX. FIRE HYDRANT
- TREE
- TREE TO BE REMOVED

NOTES:
1. EXISTING BUILDINGS AND PONDS IN ADJACENT TRACTS ARE FROM AVAILABLE MAP INFORMATION
2. TREE MITIGATION PLAN WILL BE INCLUDED IN SITE DEVELOPMENT PLAN #SD-23-0170 IN THE LANDSCAPE PLAN SHEETS
3. IN THE EVENT OF A CONFLICT WITH TREE REMOVAL/PRESERVATION CALL OUTS ON PLAN SHEET(S) VERSUS TREE REMOVAL/PRESERVATION MATRIX, THE TREE REMOVAL/PRESERVATION MATRIX SHALL APPLY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY WITH CITY STAFF SHOULD ANY INCONSISTENCY EXIST WITHIN AN APPROVED PLAN SET. NO IN-FIELD CHANGES ARE MADE TO APPROVED PLANS, NO EXCEPTIONS.
4. PLEASE SEE DRAINAGE AREA MAP SHEET 09, FOR EXISTING DRAINAGE AREA
5. SUB WATERSHED: SOUTH BRUSHY CREEK-BRUSHY CREEK WATERSHED: TURKEY CREEK-BRUSHY CREEK

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

EXISTING CONDITIONS & DEMOLITION PLAN

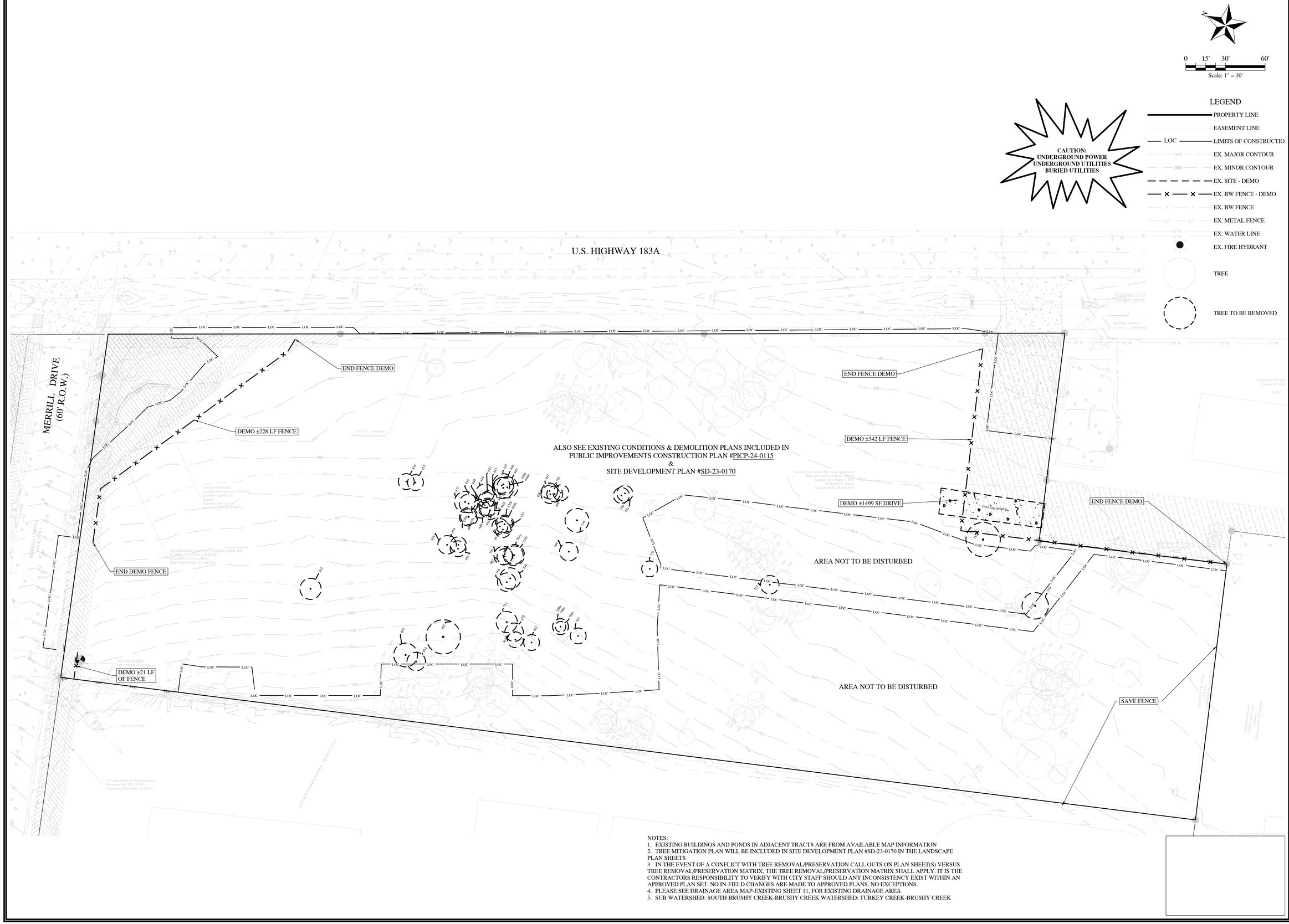
DATE
MM/DD/YYYY

PROJECT NO.
PICP-24-0115

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS				
NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE	
1				
2				
3				
4				
5				
6				



ALSO SEE EXISTING CONDITIONS & DEMOLITION PLANS INCLUDED IN PUBLIC IMPROVEMENTS CONSTRUCTION PLAN #PICP-24-0115
&
SITE DEVELOPMENT PLAN #SD-23-0170

NOTES:
1. EXISTING BUILDINGS AND PONDS IN ADJACENT TRACTS ARE FROM AVAILABLE MAP INFORMATION
2. TREE MITIGATION PLAN WILL BE INCLUDED IN SITE DEVELOPMENT PLAN #SD-23-0170 IN THE LANDSCAPE PLAN SHEETS
3. IN THE EVENT OF A CONFLICT WITH TREE REMOVAL/PRESERVATION CALL OUTS ON PLAN SHEET(S) VERSUS TREE REMOVAL/PRESERVATION MATRIX, THE TREE REMOVAL/PRESERVATION MATRIX SHALL APPLY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY WITH CITY STAFF SHOULD ANY INCONSISTENCY EXIST WITHIN AN APPROVED PLAN SET. NO IN-FIELD CHANGES ARE MADE TO APPROVED PLANS, NO EXCEPTIONS.
4. PLEASE SEE DRAINAGE AREA MAP-EXISTING SHEET 11, FOR EXISTING DRAINAGE AREA
5. SUB WATERSHED: SOUTH BRUSHY CREEK-BRUSHY CREEK WATERSHED: TURKEY CREEK-BRUSHY CREEK

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

EXISTING CONDITIONS & DEMOLITION PLAN

DATE
03/18/2024

PROJECT NO.
SD-24-0202

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS			
NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
1			
2			
3			
4			
5			
6			

ATTACHMENT D – FACTORS AFFECTING WATER SURFACE QUALITY

During Construction:

There will be a slight increase in suspended solids during construction which will be mitigated utilizing BMPs including silt fencing, inlet protection, stabilized construction entrances and the proposed pond for temporary sediment basins. Potential sources of pollutants affecting surface water quality include:

- soil particle migration as a result of erosion from construction activity including the use of spoil piles, clearing, and grubbing, excavation and burrow of existing grades, final grading, and installation of utilities and storm water infrastructure.
- soil particle migration resulting from pipe bedding material installation or staging and soil and/or road base placement and storage
- Construction equipment and vehicle drippings or leaks containing petroleum suchas fuel, grease, oil, and hydraulic fluid
- Concrete truck wash-out activities
- Materials used during construction (paints, glues, chemicals, pavement striping/markings, gravel) may also affect the surface water quality
- Trash and debris from construction crews, equipment, and supplies can be another pollutant source and will be properly disposed of and effectively managed throughout construction to minimize any potential impact
- Sanitary waste from construction crews could also lead to a potential source of contamination. Propersanitationduringconstruction,includingtemporaryrestroom facilities and trash barrels will not be provided.

Post Construction:

Automobiles utilized by future tenants will generate some pollutants that can affect water quality. Leaks from engines and transmissions may add oil, grease or antifreeze and other automotive related liquids to the storm runoff.

Activities may include the utilization of chemical pesticides and lawn products that may affect the water quality. These products are typically labeled with instructions and warning labels about proper and safe usage by the customers. The owner will provide information through the leasing agreements about the proper use of products to the occupants and their effect on water quality.

Lack of lawn care maintenance can cause soil erosion and impact the quality of stream water by increasing suspended solids. The owner is therefore managing on-going lawn care and maintenance.

Improperly installed sanitary sewers may increase fecal materials and nutrients in runoff. City permitting procedures and inspections will make this a minor concern.

ATTACHMENT E – VOLUME AND CHARACTERISTICS OF STORMWATER

The curve number of undeveloped the site is 84, pasture in fair condition. All existing impervious cover was assigned a curve number of 98. The current proposed development of the site will result in impervious cover of approximately 1.72 acres of that 1.32 acres of impervious cover is in Drainage Area PN 1 which flows to Pond N. Pond N is designed to treat 1.53 acres of impervious cover. Pond S is designed to treat impervious cover of 1.79 acres. The current proposed impervious cover for drainage Area PE 1 (Pond S) is 0.22 acres, leaving approximately 1.57 acres of impervious cover for assumed future development.

With the proposed treatment measures, the character of the storm water leaving the site after the development is expected to be similar in character to that of existing conditions. This proposed development will require water quality treatment. This will be achieved using the two (2) batch detention ponds. Refer to the tables on the following page and the included construction plans for detailed information on the drainage calculations.

The table below has the impervious cover numbers for the current proposed development.

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	***Sq. Ft.***	***Sq. Ft./Acre***	***Acres***
Structures/Rooftops	16,988.4	÷ 43,560 =	0.39
Parking	8,276.0	÷ 43,560 =	0.19
Other paved surfaces	45,302.4	÷ 43,560 =	1.04
Total Impervious Cover	70,567	÷ 43,560 =	1.62

DRAINAGE CALCULATIONS

DRAINAGE CALCULATIONS (EXISTING)										
DESIGN POINT	DRAINAGE AREA	ACRES	Tc (MIN)	Lag Time	Curve Number	Impervious Cover (%)	Q (2YR) (CFS)	Q (10YR) (CFS)	Q (25YR) (CFS)	Q (100YR) (CFS)
A	EN 1	1.73	5.0	3.0	84.0	0.0%	6.8	12.2	15.9	22.2
A	EN 2	0.69	5.0	3.0	84.0	15.0%	2.9	5	6.5	9
A	EN 3	0.21	5.0	3.0	84.0	0.0%	0.8	1.5	1.9	2.7
A TOTAL							10.6	18.7	24.3	33.8
B	EE 1	1.34	6.4	3.8	84.0	9.1%	5.2	9.2	11.9	16.5
B TOTAL							5.2	9.2	11.9	16.5
C	ES 1	2.89	5.6	3.4	84.0	4.2%	11.3	20.0	25.9	36.1
C TOTAL							11.3	20.0	25.9	36.1
D	CTRMA	0.55	5.0	3.0		27.8%	2.4	4.1	5.2	7.2
D TOTAL							7.6	13.2	17	23.5
E	WV DR	2.51	5.0	3.0		80.0%	13.3	20.5	25.5	34.1
E TOTAL							32.0	53.5	68.3	93.6
C	18-SD-006*	6.72					1.4	3.8	7.9	20.5
E TOTAL + 18-SD-006		16.65					33.4	57.3	76.2	114.1

*Pond discharge from approved record drawings. 18-SD-006 is fully developed.

DRAINAGE CALCULATIONS (PROPOSED)										
DESIGN POINT	DRAINAGE AREA	ACRES	Tc (MIN)	Lag Time	Curve Number	Impervious Cover (%)	Q (2YR) (CFS)	Q (10YR) (CFS)	Q (25YR) (CFS)	Q (100YR) (CFS)
A	PN 1	2.36	5.0	3.0	84.0	65.0%	11.9	18.8	23.6	31.7
	POND N						8.4	14	18	25
	WS Elevation						991.1	991.4	991.6	991.9
A	PN 2	0.57	5.0	3.0	84.0	24.0%	2.5	4.2	5.4	7.4
A	PN 3	0.07	5.0	3.0	84.0	30.0%	0.3	0.5	0.7	0.9
A TOTAL							10.6	17.9	23.1	32.0
B	PE 1	2.38	5.0	3.0	84.0	75.0%	12.4	19.3	24.1	32.2
	POND S						3.7	6.5	8.6	12.5
	WS Elevation						987.8	988.4	988.8	989.2
B	PE1 Bypass	0.5	5.0	3.0	84.0	31.0%	2.2	3.6	4.7	6.4
B TOTAL							4.8	8.6	11.3	16.3
C	PS 1	0.99	6.7	4.0	84.0	5.3%	3.8	6.7	8.6	12.0
C TOTAL							3.8	6.7	8.6	12.0
D	CTRMA	0.55	5.0	3.0	84.0	27.8%	2.4	4.1	5.2	7.2
D TOTAL	INCLUDES C						7.2	12.5	16.3	23.0
E	WV DR	2.51	5.0	3.0		80.0%	13.3	20.5	25.5	34.1
E TOTAL	INCLUDES C & D						23.9	39.1	49.8	68.3
C	18-SD-006*	6.72					1.4	4.1	8.6	20.5
E TOTAL + 18-SD-006		16.65					25.3	43.2	58.4	88.8

*Pond discharge from approved record drawings. 18-SD-006 is fully developed.

ATTACHMENT K – BMPS FOR ONSITE STORMWATER

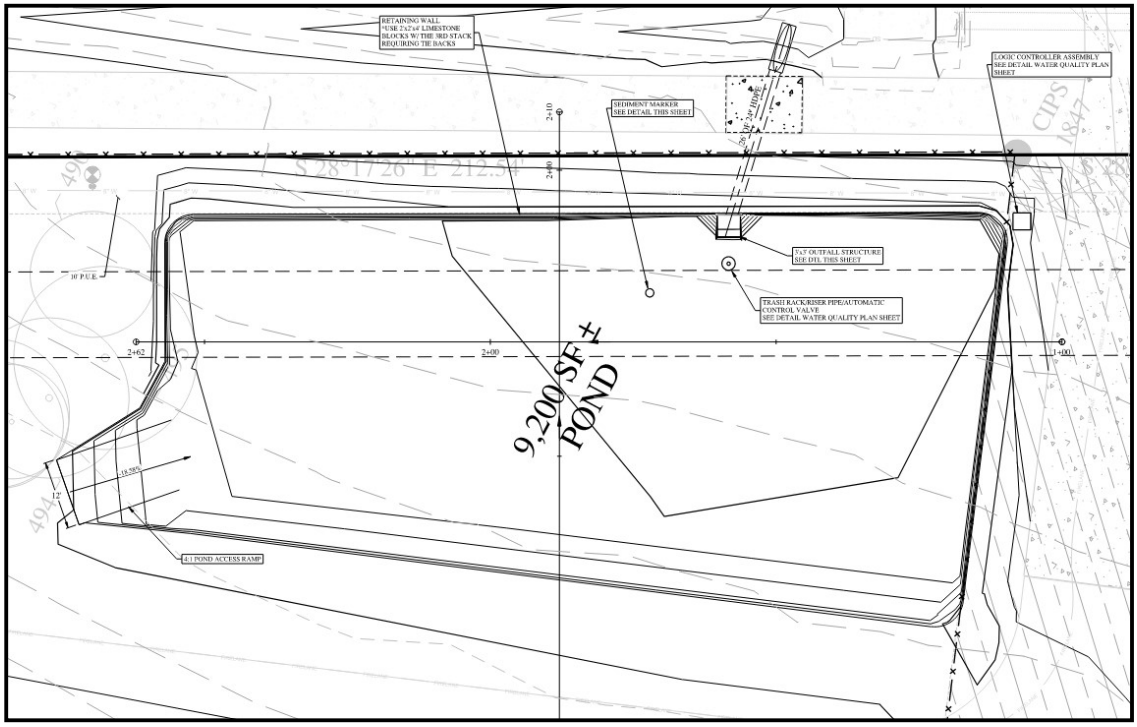
Temporary BMPs will be utilized during construction and permanent BMPs are planned to minimize surface stream contamination of the infrastructure of the project. Temporary BMPs for the construction consist of:

- One construction entrance to reduce hazards transported on tire wheels from entering or exiting the site
- 3524+/- linear feet of silt fence along the down gradient area of the project to reduce particle migration, sediment transport, waste, and other harmful pollutants caused during construction
- One concrete washout area to prevent the discharge of pollutants.
- Litter and trash removal and sanitary septic facilities will be provided during construction

The permanent BMP controls for the site consist of a two (2) Batch Detention Basins. Additionally, revegetation measures and landscape maintenance will be employed. These controls were carefully designed to meet the 80 percent removal rate of total suspended solids. Refer to the drainage map for detailed pond location and additional drainage area information.

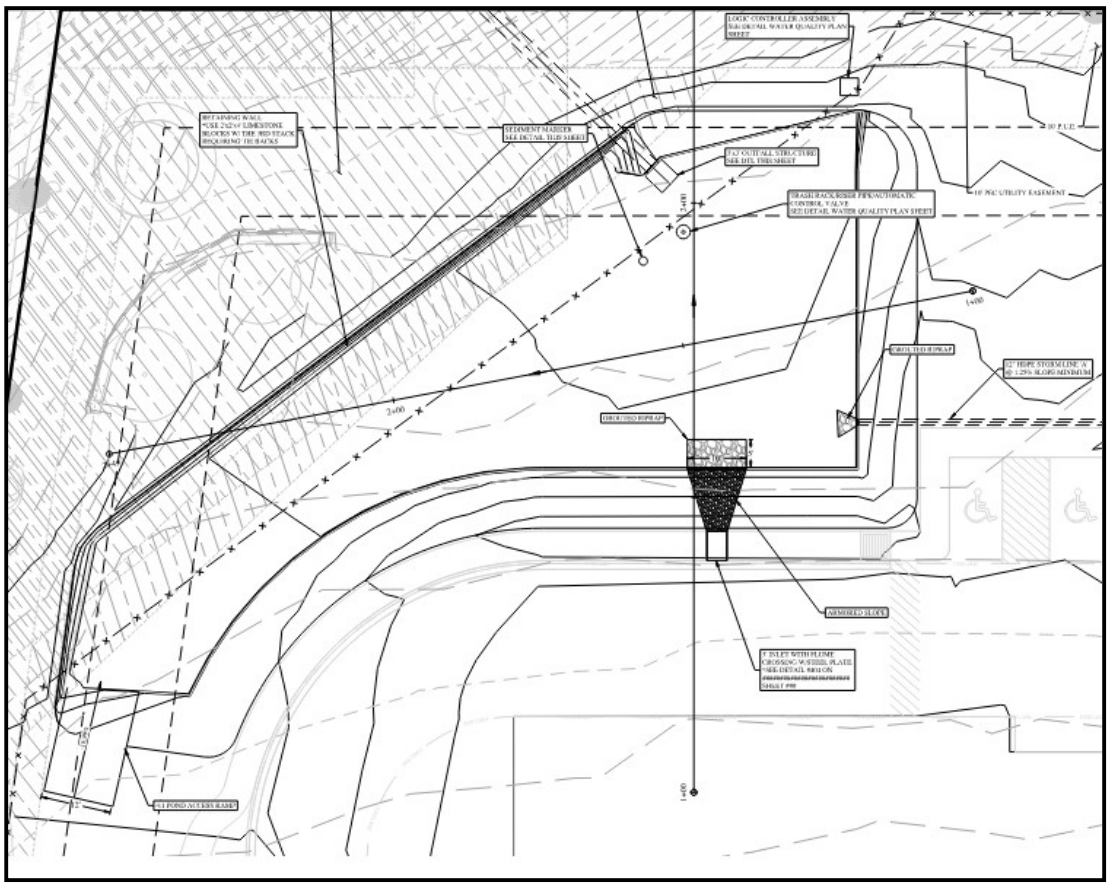
The temporary BMPs and the permanent BMPs (Batch Detention Basins) have been designed in accordance with the TCEQ Technical Guidance Manual (TGM) RG-348. See Water Quality Calculations for basin designs on the following page.

Proposed Pond S Batch Detention Basin



	Pond South Elevation-Area-Storage Table					
	Elevation delta	**992.25**	**Contour Area (sf)**	**Incremental storage (cf)**	**Cumulative Storage (cf)**	**Cumulative Storage (ac-ft)**
	0	984.00	0.0	0.0	0.0	0.0
	0.25	984.25	307.0	38.4	38.4	0.000881
	0.25	984.50	993.0	162.5	200.9	0.004611
	0.25	984.75	2046.0	379.9	580.8	0.013332
	0.25	985.00	3535.0	697.6	1278.4	0.029347
	0.25	985.25	4974.0	1063.6	2342.0	0.053765
	0.25	985.50	5923.0	1362.1	3704.1	0.085035
	0.25	985.75	6795.0	1589.8	5293.9	0.121531
	0.25	986.00	7630.0	1803.1	7097.0	0.162925
	0.25	986.25	7961.0	1948.9	9045.9	0.207665
WQV=10547 CF	0.25	986.50	8156.0	2014.6	11060.5	0.253914
	0.25	986.75	8348.0	2063.0	13123.5	0.301274
	0.25	987.00	8521.0	2108.6	15232.1	0.349681
	0.25	987.25	8704.0	2153.1	17385.3	0.399110
	0.25	987.50	8841.0	2193.1	19578.4	0.449458
	0.25	987.75	8994.0	2229.4	21807.8	0.500637
	0.25	988.00	9120.0	2264.3	24072.0	0.552617
	0.25	988.25	9174.0	2286.8	26358.8	0.605114
	0.25	988.50	9223.0	2299.6	28658.4	0.657906
	0.25	988.75	9271.0	2311.8	30970.1	0.710976
	0.25	989.00	9317.0	2323.5	33293.6	0.764316
	0.25	989.25	9361.0	2334.8	35628.4	0.817915
	0.25	989.50	9403.0	2345.5	37973.9	0.871760
	0.25	989.75	10075.0	2434.8	40408.6	0.927654
	0.25	990.00	11384.0	2682.4	43091.0	0.989233
	0.25	990.25	12447.0	2978.9	46069.9	1.057619
	0.25	990.25	12447.0	3111.8	49181.6	1.129055

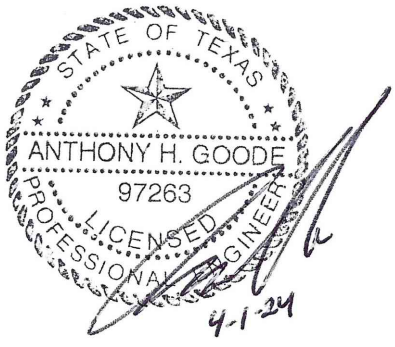
Proposed Pond N Batch Detention Basin



	Pond North Elevation-Area-Storage Table					
	Elevation delta	**Depth (ft)**	**Contour Area (sf)**	**Incremental storage (cf)**	**Cumulative Storage (cf)**	**Cumulative Storage (ac-ft)**
	0.00	987.50	0.0	0.0	0.0	0.0
	0.25	987.75	75.0	9.4	9.4	0.000215
	0.25	988.00	429.0	63.0	72.4	0.001662
	0.25	988.25	1095.0	190.5	262.9	0.006035
	0.25	988.50	2137.0	404.0	666.9	0.015309
	0.25	988.75	3118.0	656.9	1323.8	0.030389
	0.25	989.00	3530.0	831.0	2154.8	0.049466
	0.25	989.25	3883.0	926.6	3081.4	0.070739
	0.25	989.50	4191.0	1009.3	4090.6	0.093908
	0.25	989.75	4487.0	1084.8	5175.4	0.118810
	0.25	990.00	4795.0	1160.3	6335.6	0.145446
WQV = 7222 CF	0.25	990.25	5162.0	1244.6	7580.3	0.174019
	0.25	990.50	5485.0	1330.9	8911.1	0.204571
	0.25	990.75	5519.0	1375.5	10286.6	0.236148
	0.25	991.00	5554.0	1384.1	11670.8	0.267924
	0.25	991.25	5590.0	1393.0	13063.8	0.299902
	0.25	991.50	5626.0	1402.0	14465.8	0.332088
	0.25	991.75	5663.0	1411.1	15876.9	0.364483
	0.25	992.00	5701.0	1420.5	17297.4	0.397093
	0.25	992.25	5750.0	1431.4	18728.8	0.429953
	0.25	992.50	5814.0	1445.5	20174.3	0.463137
	0.25	992.75	5897.0	1463.9	21638.1	0.496743
	0.25	993.00	5997.0	1486.8	23124.9	0.530874

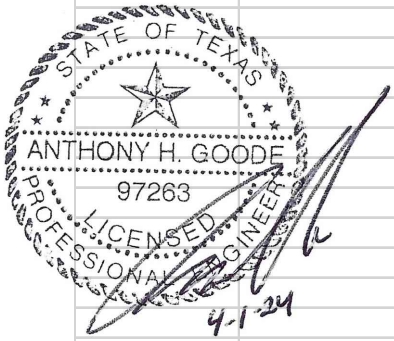
POND WATER QUALITY CALCULATIONS

Texas Commission on Environmental Quality				
TSS Removal Calculations 04-20-2009		**Project Name:**	**Mac Haik**	
		Date Prepared:	**3/4/2024**	
Additional information is provided for cells with a red triangle in the upper right corner. Place the cur				
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 equa				
1. The Required Load Reduction for the total project:		Calculations from RG-348		
	Page 3-29 Equation 3.3: L_M =	$27.2(A_N \times P)$		
where:	$L_{M\ TOTAL\ PROJECT}$ =	Required TSS removal resulting from the proposed de		
	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 * =	**5.73**	acres	
	Predevelopment impervious area within the limits of the plan * =	**0.12**	acres	
	Total post-development impervious area within the limits of the plan* =	**3.18**	acres	
	Total post-development impervious cover fraction * =	**0.56**		
	P =	**32**	inches	
	$L_{M\ TOTAL\ PROJECT}$ =	**2663**	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**		



POND N

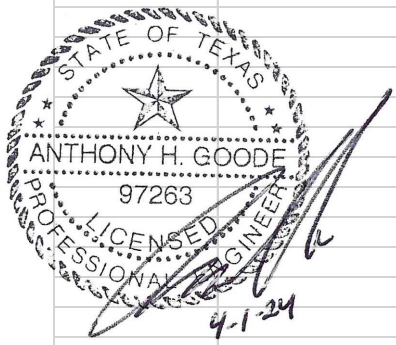
2. Drainage Basin Parameters (This information should be provided for each basin):				
	Drainage Basin/Outfall Area No. =	**PN 1**	**NORTH POND**	
	Total drainage basin/outfall area =	**2.34**	acres	
	Predevelopment impervious area within drainage basin/outfall area =	**0.00**	acres	
	Post-development impervious area within drainage basin/outfall area =	**1.39**	acres	
	Post-development impervious fraction within drainage basin/outfall area =	**0.59**		
	$L_{M\ THIS\ BASIN}$ =	**1210**	lbs.	
3. Indicate the proposed BMP Code for this basin.				
	Proposed BMP =	**Batch Pond**		
	Removal efficiency =	**91**	percent	
4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.				
	RG-348 Page 3-33 Equation 3.7: L_R =	(BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)		
where:	A_C =	Total On-Site drainage area in the BMP catchment ar		
	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 p		
	A_C =	**2.18**	acres	
	A_I =	**1.32**	acres	
	A_P =	**0.86**	acres	
	L_R =	**1347**	lbs	
5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area				
	Desired $L_{M\ THIS\ BASIN}$ =	**1210**	lbs.	
	F =	**0.90**		
6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.				Calculations from RG
	Rainfall Depth =	**1.70**	inches	
	Post Development Runoff Coefficient =	**0.43**		
	On-site Water Quality Volume =	**5727**	cubic feet	
		Calculations from RG-348		Pages 3-36 to 3-37
	Off-site area draining to BMP =	**0.16**	acres	
	Off-site Impervious cover draining to BMP =	**0.06**	acres	
	Impervious fraction of off-site area =	**0.38**		
	Off-site Runoff Coefficient =	**0.29**		
	Off-site Water Quality Volume =	**291**	cubic feet	
	Storage for Sediment =	**1204**		
	Total Capture Volume (required water quality volume(s) x 1.20) =	**7222**	cubic feet	



POND S

2. Drainage Basin Parameters (This information should be provided for each basin):				
	Drainage Basin/Outfall Area No. =	**PE 1**	**SOUTH POND**	
	Total drainage basin/outfall area =	**2.47**	acres	
	Predevelopment impervious area within drainage basin/outfall area =	**0.00**	acres	
	Post-development impervious area within drainage basin/outfall area =	**1.85**	acres	
	Post-development impervious fraction within drainage basin/outfall area =	**0.75**		
	$L_{M\ THIS\ BASIN}$ =	**1610**	lbs.	
3. Indicate the proposed BMP Code for this basin.				
	Proposed BMP =	**Batch Pond**		
	Removal efficiency =	**91**	percent	

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.				
	RG-348 Page 3-33 Equation 3.7: L_R =	(BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)		
where:	A_C =	Total On-Site drainage area in the BMP catchment ar		
	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 p		
	A_C =	**2.14**	acres	
	A_I =	**1.79**	acres	
	A_P =	**0.35**	acres	
	L_R =	**1809**	lbs	
5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area				
	Desired $L_{M\ THIS\ BASIN}$ =	**1610**	lbs.	
	F =	**0.89**		
6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.				Calculations from RG
	Rainfall Depth =	**1.60**	inches	
	Post Development Runoff Coefficient =	**0.68**		
	On-site Water Quality Volume =	**8416**	cubic feet	
		Calculations from RG-348		Pages 3-36 to 3-37
	Off-site area draining to BMP =	**0.33**	acres	
	Off-site Impervious cover draining to BMP =	**0.06**	acres	
	Impervious fraction of off-site area =	**0.19**		
	Off-site Runoff Coefficient =	**0.19**		
	Off-site Water Quality Volume =	**374**	cubic feet	
	Storage for Sediment =	**1758**		
	Total Capture Volume (required water quality volume(s) x 1.20) =	**10547**	cubic feet	



ATTACHMENT L – BMPS FOR SURFACE STREAMS

Temporary BMPs consist of silt fence, construction entrance and concrete washout. Permanent BMPs for surface streams include batch detention ponds, revegetation, and landscape maintenance. These practices will help prevent contamination in the surface streams. Refer to Attachment K for a detailed description of these measures

This development will convey storm water to an established stormwater conveyance system along 183 Toll (CTRMA) through existing TxDOT infrastructure. Careful measures have been taken in the design of the pond system and outlet controls.

ATTACHMENT M – CONSTRUCTION PLANS

MAC HAIK QUICK LANE

SITE DEVELOPMENT PLANS

PROJECT # SD-23-0170

1040 MERRILL DRIVE

FILING DATE: 01/30/2024

OWNER:
MH LEANDER REALTY, LLC
11750 KATY FWY STE 1300
HOUSTON, TEXAS 77079-1267
P: (281) 979-2520

DEVELOPER:
MAC HAIK AUTOMOTIVE GROUP
1033 KAY FREEWAY
HOUSTON, TEXAS 77024
CONTACT: SCOTT HARTLEY
P: (281) 979-2520
E: SHARTLEY@MACHAIK.NET

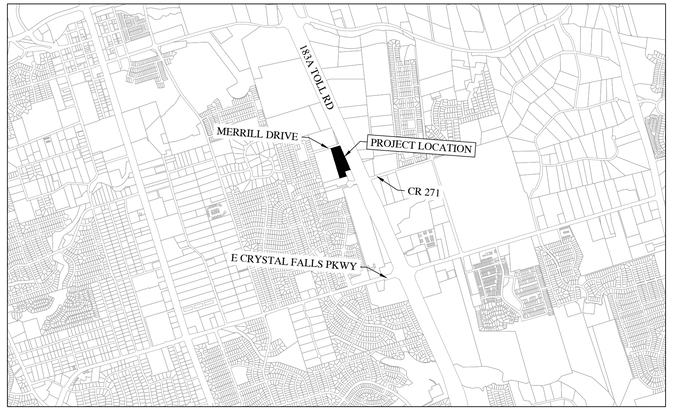
ENGINEER:
GOODE FAITH ENGINEERING, LLC
1620 LA JAITA DR. SUITE 300
CEDAR PARK, TEXAS 78613
CONTACT: ANTHONY H. GOODE, PE 97263
P: (972) 822-1682
E: ANTHONY@GOODEFAITHENG.COM

SURVEYOR:
FOREST SURVEYING & MAPPING CO.
102 ASH ST.
GEORGETOWN, TEXAS 78626
CONTACT: WILLIAM F. FORREST. RPLS 1847
P: (512) 930-5927
E: FORRESTSASSER@FORESTSURVEYING.COM

PLAN SUBMITTAL/REVIEW LOG

1ST SUBMITTAL TO CITY	12/14/2023

LAND USE SUMMARY	
LOCATION	CORNER MERRILL DR & 183A FRONTAGE RD LEANDER, TX 78641
ZONING	GC-3-A (GENERAL COMMERCIAL)
PROPOSED USE	GENERAL COMMERCIAL
ACREAGE	5.725 ACRES (249,381 SF)
TOTAL IMPERVIOUS COVER	74,970 SF ± (30%)
BUILDING IMPERVIOUS COVER	17,400 SF ± (7%)
TOTAL # OF MULTI-FAMILY OR CONDO UNITS	N/A
PROJECT INFORMATION	
PROPERTY INFORMATION/LEGAL DESCRIPTION	#R305748), 0.15 (PROP #R500607), 0.605 (PROP #R474901), & 0.176 (PROP #R474912)
	AW0006 - HARMON, E. D. SUR., ACRES 0.128 (PROP #R485578), 0.461 (PROP #R031360), & 0.37 (PROP #R457903)
FUTURE LAND USE CATEGORY	MULTI-USE CORRIDOR - PRIORITY CORRIDOR
PROPOSED INCENTIVES	N/A
CONCEPT PLAN & PRELIMINARY PLAT #	CP-23-0023
PUBLIC IMPROVEMENT CONSTRUCTIONN PLAN #	PICP-24-0115
FINAL PLAT PROJECT #	FP-24-0135
MINOR SITE DEVELOPMENT PROJECT #	SD-24-0202
SITE DEVELOPMENT PROJECT #	SD-23-0170
DEVELOPMENT AGREEMENT PROJECT #	N/A
FLOODPLAIN DEVELOPMENT PROJECT #	N/A
MAINTENANCE AGREEMENT RECORDATION #	PENDING
ON-SITE 30' DRAINAGE EASEMENT RECORDATION #	PENDING
ZONING PROJECT #	07-Z-018
SURROUNDING SITE PLAN PROJECT #	13-SD-001
SURROUNDING SITE PLAN PROJECT #	18-SD-006
OFFSITE EASEMENTS & RECORDATION #s	60' R.O.W. (MERRILL DRIVE) 0.147 ACRES DOC # 2014089823
	6' SIDEWALK EASEMENT (PER FINAL PLAT LEANDER CROSSING PHASE ONE) DOC # 2015105703
	10' UTILITY EASEMENT DOC # 2015104061



INDEX OF SHEETS	
SHEET NUMBER	SHEET TITLE
01	COVER
02	GENERAL NOTES
03	FINAL PLAT (1 OF 2)
04	FINAL PLAT (2 OF 2)
05	EXISTING CONDITIONS & DEMOLITION PLAN
06	EROSION & SEDIMENTATION CONTROL PLAN
07	EROSION & SEDIMENTATION CONTROL NOTES
08	DRAINAGE AREA PLAN
09	POND PLAN (NORTH)
10	POND PLAN (SOUTH)
11	WATER QUALITY PLAN
12	GRADING PLAN
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14	ADDRESS PLAN
15	UTILITY PLAN
16	WASTEWATER DETAILS
17	WATER & WASTEWATER DETAILS
18	WATER DETAILS
19	STORM DETAILS
20	STANDARD DETAILS (1 OF 3)
21	STANDARD DETAILS (2 OF 3)
22	STANDARD DETAILS (3 OF 3)
23	LANDSCAPE PLAN (1 OF 2)
24	LANDSCAPE PLAN (2 OR 2)

APPROVED BY:

ROBIN M. GRIFFIN, AICP, EXECUTIVE DIRECTOR OF DEVELOPMENT SERVICES — DATE

EMILY TRUMAN, P.E., CFM, CITY ENGINEER — DATE

MARK TUMMONS, CPRP, DIRECTOR OF PARKS AND RECREATIONS — DATE

CHIEF JOSHUA DAVIS, FIRE MARSHAL — DATE

THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, REGULATORY COMPLIANCE, AND ADEQUACY OF THESE PLANS AND/OR SPECIFICATIONS WHETHER OR NOT THE PLANS AND/OR SPECIFICATIONS WERE REVIEWED BY THE CITY ENGINEER(S).

NOTES:
1. THIS SITE IS LOCATED WITHIN THE EDUARDS AQUIFER CONTRIBUTING ZONE.
2. ALL EASEMENT OF RECORD AS INDICATED ON THE MOST RECENT TITLE RUN (DATED: 07/11/2023 & 07/12/2023 BY FIRST AMERICAN TITLE GUARANTY COMPANY) FOR THIS PROPERTY ARE SHOWN ON THIS SITE PLAN.
3. GEOTECH REPORT BY: MLA GEOTECHNICAL 08/10/2023.
4. IMPROVEMENTS TO BE DEDICATED TO THE CITY OF LEANDER IS 6' PUBLIC SIDEWAALK ALONG MERRILL DR.
5. DISTURBED ACREAGE IS ± 4.39 ACRES

SPECIAL CONSTRUCTION NOTES:
1. CONTRACTOR SHALL CALL "DIG-TESS" SYSTEM (1-800-344-8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY OR COUNTRY EASEMENTS OR STREET R.O.W.
2. CONTRACTOR SHALL POT HOLE ALL EXISTING UTILITIES AT CONNECTION AND INTERSECTION PRIOR TO UTILITY MATERIALS BEING DELIVERED TO SITE.
3. FOR SLOPES OR TRENCHES GREATER THAN FIVE FEET IN DEPTH, A NOTE MUST BE ADDED STATING: "ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION." (OSHA STANDARD MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE: INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN, TEXAS.)

GOODE FAITH ENGINEERING
STATE OF TEXAS
EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

COVER

REVISON #	DESCRIPTION	APPROVAL
1.		
2.		
3.		
4.		
5.		
6.		

STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED
PROFESSIONAL ENGINEER

SUBMITTED BY:

ANTHONY GOODE, P.E. — DATE
GOODE FAITH ENGINEERING, LLC.
TBPE FIRM NO. F-22664
1620 LA JAITA DR. STE 300
CEDAR PARK, TX 78613
P: (972)822-1682

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

DRAWN BY	DATE
BLB	04/01/2024
CHECKED BY	PROJECT NO.
AHG	23-008.0

GENERAL NOTES FOR SUBDIVISIONS AND SITE DEVELOPMENT PLANS

REVISED MARCH 27, 2023
CITY CONTACTS:
ENGINEERING MAIN LINE: 512-528-2721
PLANNING DEPARTMENT: 512-528-2750
PUBLIC WORKS MAIN LINE: 512-259-2640
STORMWATER INSPECTIONS: 512-285-0055
UTILITIES MAIN LINE: 512-259-1142
UTILITIES ON-CALL: 512-690-4760

GENERAL:

1. CONTRACTORS SHALL HAVE AN APPROVED SET OF PLANS WITH APPROVED REVISIONS ON SITE AT ALL TIMES. FAILURE TO HAVE APPROVED PLANS ON SITE MAY RESULT IN ISSUANCE OF WORK STOPPAGE.
2. CONTACT 811 SYSTEM FOR EXISTING WATER AND WASTEWATER LOCATIONS 48 HOURS PRIOR TO CONSTRUCTION.
a. REFRESH ALL LOCATES BEFORE 14 DAYS – LOCATE REFRESH REQUESTS MUST INCLUDE A COPY OF YOUR 811 TICKET. TEXAS PIPELINE DAMAGE PREVENTION LAWS REQUIRE THAT A LOCATE REFRESH REQUEST BE SUBMITTED BEFORE 14 DAYS, OR IF LOCATION MARKERS ARE NO LONGER VISIBLE.
b. REPORT PIPELINE DAMAGE IMMEDIATELY – IF YOU WITNESS OR EXPERIENCE PIPELINE EXCAVATION DAMAGE, PLEASE CONTACT THE CITY OF LEANDER BY PHONE AT 512-259-2640.
3. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR 48 HOURS BEFORE:
a. BEGINNING EACH PHASE OF CONSTRUCTION. CONTACT ASSIGNED CITY INSPECTOR.
b. ANY TESTING. CONTRACTOR SHALL PROVIDE QUALITY TESTING FOR ALL INFRASTRUCTURES TO BE ACCEPTED AND MAINTAINED BY THE CITY OF LEANDER AFTER COMPLETION.
c. PROOF ROLLING SUB-GRADE AND EVERY LIFT OF ROADWAY EMBANKMENT, IN-PLACE DENSITY TESTING OF EVERY BASE COURSE, AND ASPHALT CORES. ALL OF THIS TESTING MUST BE WITNESSED BY A CITY OF LEANDER REPRESENTATIVE.
d. CONNECTING TO THE EXISTING WATER LINES.
e. THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET ROW. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S ROW MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.
4. ALL RESPONSIBILITILY FOR THE ACCURACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST RELY ON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.
5. EXCESS SOIL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. NOTIFY THE CITY OF LEANDER IF THE DISPOSAL SITE IS INSIDE THE CITY'S JURISDICTIONAL BOUNDARIES.
6. BURNING IS PROHIBITED.
7. NO WORK IS TO BE PERFORMED BETWEEN THE HOURS OF 9:00 P.M. AND 7:00 A.M. OR WEEKENDS. THE CITY INSPECTOR RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT INSPECTION.
8. CONTACT THE CITY INSPECTOR 4 DAYS PRIOR TO WORK FOR APPROVAL TO SCHEDULE ANY INSPECTIONS ON WEEKENDS OR CITY HOLIDAYS.
9. NO BLASTING IS ALLOWED.
10. ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION OF THE REVISION. ALL CHANGES AND REVISIONS SHALL USE REVISION CLOUDS TO HIGHLIGHT ALL REVISIONS AND CHANGES WITH EACH SUBMITTAL. REVISION TRIANGLE MARKERS AND NUMBERS SHALL BE USED TO MARK REVISIONS. ALL CLOUDS AND TRIANGLE MARKERS FROM PREVIOUS REVISIONS MUST BE REMOVED. REVISION INFORMATION SHALL BE UPDATED ON COVER SHEET AND AFFECTED PLAN SHEET TITLE BLOCK.
11. THE CONTRACTOR AND ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF LEANDER ACCURATE “RECORD DRAWINGS” FOLLOWING THE COMPLETION OF ALL CONSTRUCTION. THESE “RECORD DRAWINGS” SHALL MEET THE SATISFACTION OF THE ENGINEERING DEPARTMENTS PRIOR TO FINAL ACCEPTANCE.
12. THE CONTRACTOR WILL REIMBURSE THE CITY FOR ALL REPAIR AND/OR COST INCURRED AS A RESULT OF ANY DAMAGE TO ANY PUBLIC INFRASTRUCTURE WITHIN CITY EASEMENT OR PUBLIC RIGHT-OF-WAY, REGARDLESS OF THESE PLANS.
13. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT EASEMENTS. CLEANUP SHALL BE TO THE SATISFACTION OF THE ENGINEER OF RECORD AND CITY.
14. CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, AT NO ADDITIONAL COST TO THE PROPERTY OWNER.
15. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 1033 LA POSADA DR. SUITE 375, AUSTIN, TEXAS 78752-3832.
16. ALL MANHOLE FRAMES/COVERS AND WATER VALVE/METER BOXES MUST BE ADJUSTED TO FINISHED GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR FOR CITY CONSTRUCTION INSPECTOR INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL CONTRACTOR SHALL BACKFILL AROUND MANHOLES AND VALVE BOXES WITH CLASS A CONCRETE.
17. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL CITY OF LEANDER DETAILS AND CITY OF AUSTIN STANDARD SPECIFICATIONS.
18. PROJECT SPECIFICATIONS TAKE PRECEDENCE OVER PLANS AND SPECIAL CONDITIONS GOVERN OVER TECHNICAL SPECIFICATIONS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
20. THE CONTRACTOR MUST OBTAIN A CONSTRUCTION WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL, SEDIMENT AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL, SEDIMENT OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER. ONLY SHOVELING AND SWEEPING WILL BE ALLOWED. THE CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE. THE CONTRACTOR SHALL KEEP THE SITE AREA CLEAN AND MAINTAINED AT ALL TIMES, TO THE SATISFACTION OF THE CITY. THE SUBDIVISION (OR SITE) WILL NOT BE ACCEPTED (OR CERTIFICATE OF OCCUPANCY ISSUED) UNTIL THE SITE HAS BEEN CLEANED TO THE SATISFACTION OF THE CITY.
22. TREES IN EXISTING ROW SHOULD BE PROTECTED OR NOTED IN THE PLANS TO BE REMOVED.

CONSTRUCTION SEQUENCE NOTES

NOTE: BELOW IS GENERAL SEQUENCE OF CONSTRUCTION. THE ENGINEER OF RECORD HAS UPDATED BELOW WITH NOTES SPECIFIC TO THE PROJECT.

1. THE CONTRACTOR SHALL ARRANGE AND COORDINATE ACCEPTABLE MEETING TIMES FOR AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE OWNER, PROJECT ENGINEER, RELEVANT CONTRACTORS, RELEVANT UTILITY REPRESENTATIVES, AND THE CITY ENGINEER. AT THIS MEETING, THE CITY SHALL VERIFY THAT ALL EROSION AND SEDIMENT CONTROLS AND TREE PROTECTION ARE IN PLACE, THAT CONSTRUCTION DRAWINGS AND THE SWPPP ARE LOCATED ON SITE, AND THAT THE SWPPP PERMITS HAVE BEEN ISSUED. THE CITY MAY THEN ISSUE THE SUBDIVISION IMPROVEMENT PERMIT.
2. SET-UP E/S CONTROLS AND TREE PROTECTION AND REACH OUT TO CITY FOR INSPECTION.
3. SET UP TEMPORARY TRAFFIC CONTROLS.
3. BEGIN CLEARING AND SITE DEMOLITION
4. STOCK PILE TOP SOIL
5. COORDINATE ROW PERMITS FOR CONNECTIONS TO PUBLIC MAINS
6. CONSTRUCT THE DRAINAGE PONDS AND STORM WATER FEATURES.
7. START UTILITY, GRADING, FRANCHISE UTILITY, AND ALL NECESSARY INFRASTRUCTURE CONSTRUCTION.
7. INSTALL TRAFFIC CONTROL FOR PAVEMENT AND UTILITY CONNECTIONS
8. INSTALL PAVEMENT FOR FIRE ACCESS TO BUILDING
9. BEGIN BUILDING AND VERTICAL CONSTRUCTION
10. FINISH PAVEMENT
11. INSTALL LANDSCAPE AND IRRIGATION, REVEGITAION, AND STRIPING
12. CLEAN OUT REGIONAL POND
13. REMOVE EROSION AND SEDIMENT CONTROLS
14. REQUEST FINAL WALKTHROUGH AND CONDUCT WALKTHROUGH WITH ENGINEER OF RECORD AND CITY DEPARTMENT.
15. ENGINEER OF RECORD IS RESPONSIBLE TO PREPARE AND SUBMIT CLOSEOUT DOCUMENTS FOR PROJECT CLOSEOUT.

EROSION CONTROL NOTES

1. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES AND SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
2. THE TEMPORARY SPOILS DISPOSAL SITE IS TO BE SHOWN IN THE EROSION CONTROL MAP.
3. ANY ON-SITE SPOILS DISPOSAL SHALL BE REMOVED PRIOR TO ACCEPTANCE UNLESS SPECIFICALLY SHOWN ON THE PLANS. THE DEPTH OF SPOIL SHALL NOT EXCEED 10 FEET IN ANY AREA.
4. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 6 INCHES OF TOPSOIL AND COMPOST BLEND. TOPSOIL ON SINGLE FAMILY LOTS MAY BE INSTALLED WITH HOME CONSTRUCTION. THE TOPSOIL AND COMPOST BLEND SHALL CONSIST OF 75% TOPSOIL AND 25% COMPOST.
5. SEEDING FOR REESTABLISHING VEGETATION SHALL COMPLY WITH THE AUSTIN GROW GREEN GUIDE OR WILLIAMSON COUNTY'S PROTOCOL FOR SUSTAINABLE ROADSIDES (SPEC 164--WC001 SEEDING FOR EROSION CONTROL). RESEEDING VARIETIES OF BERMUDA SHALL NOT BE USED.
6. STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED AT ALL POINTS WHERE CONSTRUCTION TRAFFIC IS EXITING THE PROJECT ONTO EXISTING PAVEMENT. LINEAR CONSTRUCTION PROJECTS MAY REQUIRE SPECIAL CONSIDERATION. ROADWAYS SHALL REMAIN CLEAR OF SILT AND MUD.
7. TEMPORARY STOP SIGNS SHOULD BE INSTALLED AT ALL CONSTRUCTION ENTRANCES WHERE A STOP CONDITION DOES NOT ALREADY EXIST.
8. IN THE EVENT OF INCLEMENT WEATHER THAT MAY RESULT IN A FLOODING SITUATION, THE CONTRACTOR SHALL REMOVE INLET PROTECTION MEASURES UNTIL SUCH TIME AS THE WEATHER EVENT HAS PASSED.

WATER AND WASTEWATER NOTES

WATER AND WASTEWATER GENERAL NOTES

1. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AND ORGANIZATION ACCREDITED BY ANSI.
2. ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY STAMPED AS FOLLOWS:
WATER SERVICE “W” ON TOP OF CURB
WASTEWATER SERVICE “S” ON TOP OF CURB
VALVE “V” ON TOP OF CURB
3. OPEN UTILITIES SHALL NOT BE PERMITTED ACROSS THE EXISTING PAVED SURFACES. WATER AND WASTEWATER LINES ACROSS THE EXISTING PAVED SURFACES SHALL BE BORED AND INSTALLED IN STEEL ENCASEMENT PIPES. BELL RESTRAINTS SHALL BE PROVIDED AT JOINTS.
4. INTERIOR SURFACES OF ALL DUCTILE IRON POTABLE OR RECLAIMED WATER PIPE SHALL BE CEMENT-MORTAR LINED AND SEAL COATED AS REQUIRED BY AWWA C104.
5. SAND, AS DESCRIBED IN AUSTIN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION:

SIEVE SIZE	PERCENT RETAINED BY WEIGHT
1/2”	0
3/8”	0-2
#4	40-85
#10	95-100

6. DENSITY TESTING FOR TRENCH BACKFILL SHALL BE DONE IN MAXIMUM 12” LIFTS.

WATER

1. SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL. AT THE CONTRACTORS' REQUEST, AND IN HIS PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF LEANDER NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY.
2. CITY PERSONNEL WILL OPERATE OR AUTHORIZE THE CONTRACTOR TO OPERATE ALL WATER VALVES THAT WILL PASS THROUGH THE CITY'S POTABLE WATER. THE CONTRACTOR MAY BE FINED $500 OR MORE, INCLUDING ADDITIONAL THEFT OF WATER FINES, IF A WATER VALVE IS OPERATED IN AN UNAUTHORIZED MANNER, REGARDLESS OF WHO OPERATED THE VALVE.
3. THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 AM AND 6 AM AFTER COORDINATING WITH CITY CONSTRUCTION INSPECTORS AND INFORMING AFFECTED PROPERTIES.
4. PRESSURE TAPS OR HOT TAPS SHALL BE IN ACCORDANCE WITH CITY OF LEANDER STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION AND SHALL FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. A CITY OF LEANDER INSPECTOR MUST BE PRESENT WHEN THE CONTRACTOR MAKES A TAP, AND/OR ASSOCIATED TESTS. A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED. “SIZE ON SIZE” TAPS SHALL NOT BE PERMITTED UNLESS MADE BY THE USE OF AN APPROVED FULL-CIRCLE GASKETED TAPPING SLEEVE. CONCRETE THRUST BLOCKS SHALL BE PLACED BEHIND AND UNDER ALL TAP SLEEVES A MINIMUM OF 24 HOURS PRIOR TO THE BRANCH BEING PLACED INTO SERVICE. THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACKFILL.
5. FIRE HYDRANTS ON MAINS UNDER CONSTRUCTION SHALL BE SECURELY WRAPPED WITH A BLACK POLY WRAP BAG AND TAPED INTO PLACE. THE POLY WRAP SHALL BE REMOVED WHEN THE MAINS ARE ACCEPTED AND PLACED INTO SERVICE.
6. THRUST BLOCKS OR RESTRAINTS SHALL BE IN ACCORDANCE WITH THE CITY OF LEANDER STANDARD SPECIFICATIONS AND REQUIRED AT ALL FITTINGS PER DETAIL OR MANUFACTURER'S RECOMMENDATION. ALL FITTINGS SHALL HAVE BOTH THRUST BLOCKS AND RESTRAINTS.
7. ALL DEAD END WATER MAINS SHALL HAVE “FIRE HYDRANT ASSEMBLY” OR “BLOW-OFF VALVE AND THRUST BLOCK” OR “BLOW-OFF VALVE AND THRUST RESTRAINTS”. THRUST RESTRAINTS SHALL BE INSTALLED ON THE MINIMUM LAST THREE PIPE LENGTHS (STANDARD 20' LAYING LENGTH). ADDITIONALL THRUST RESTRAINTS MAY BE REQUIRED BASED UPON THE MANUFACTURERS RECOMMENDATION AND/OR ENGINEER'S DESIGN.
8. PIPE MATERIAL FOR PUBLIC WATER MAINS SHALL BE PVC (AWWA C900-DR14 MIN. 305 PSI PRESSURE RATING). WATER SERVICES (2” OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200PSI, AND SDR-(9)). COPPER PIPES AND FITTINGS ARE NOT ALLOWED IN THE PUBLIC RIGHT OF ALL PLASTIC PIPES FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW).
9. ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AWWA C115/C151 PRESSURE CLASS 350).
10. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE.
11. LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE COORDINATED WITH THE PUBLIC WORKS DEPARTMENT.
12. ALL WATER METER BOXES SHALL BE:
a. SINGLE, 1” METER AND BELOW DFW37F-12-1CA, OR EQUAL
b. DUAL, 1” METERS AND BELOW DFW39F-12-1CA, OR EQUAL
c. 1.5” SINGLE METER DFW65C-14-1CA, OR EQUAL
d. 2” SINGLE METER DFW1730F-12-1CA, OR EQUAL
13. ALL WATER VALVE COVERS ARE TO BE PAINTED BLUE.

WASTEWATER

1. CURVILINEAR WASTEWATER DESIGN LAYOUT IS NOT PERMITTED.
2. MANDREL TESTING SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
3. MANHOLES SHALL BE COATED PER CITY OF AUSTIN SPL WW-511 (RAVEN 405 OR SPRAYWALL). PENETRATIONS TO EXISTING WASTEWATER MANHOLES REQUIRE THE CONTRACTOR TO RECOAT THE ENTIRE MANHOLE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATIONS SECTION NO. 506.5.
4. RECLAIMED AND RECYCLED WATER LINE SHALL BE CONSTRUCTED OF "PURPLE PIPE." ALL RECLAIMED AND RECYCLED WATER VALVE COVERS SHALL BE SQUARE AND PAINTED PURPLE.
5. FORCE MAIN PIPES NEED TO HAVE SWEEPING WYES FOR JOINTS.

STREET AND DRAINAGE NOTES

1. THE CITY OF LEANDER HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA). IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE COMPLIANCE WITH ALL LEGISLATION RELATED TO ACCESSIBILITY WITHIN THE LIMITS OF CONSTRUCTION SHOWN IN THESE PLANS. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARDS (TAS).
2. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 6” OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6” IN THE GREATEST DIMENSION. THE REMAINING 6” SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE.
3. A MINIMUM OF 6” OF TOPSOIL SHALL BE PLACED BETWEEN THE CURB AND RIGHT-OF-WAY AND IN ALL DRAINAGE CHANNELS EXCEPT CHANNELS CUT IN STABLE ROCK.
4. DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT, INCLUDING GAS, ELECTRIC TELEPHONE, CABLE TV, ETC., SHALL BE A MINIMUM OF 36” BELOW SUBGRADE.
5. STREET RIGHT-OF-WAY SHALL BE GRADED AT A SLOPE OF ¼” PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED.
6. ALL DRAINAGE PIPE IN PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE REINFORCED CONCRETE PIPE MINIMUM CLASS III OF TONGUE AND GROOVE OR O-RING JOINT DESIGN. CORRUGATED METAL PIPE IS NOT ALLOWED IN PUBLIC RIGHT OR WAY OR EASEMENTS.
7. THE CONTRACTOR MUST PROVIDE A PNEUMATIC TRUCK PER TXDOT SPEC FOR PROOF ROLLING.
8. ALL STRIPING, WITH THE EXCEPTION OF STOP BARS, CROSS WALKS, WORDS AND ARROWS, IS TO BE TYPE II (WATER BASED). STOP BARS, CROSS WALKS, WORDS AND ARROWS REQUIRE TYPE I THERMOPLASTIC.
9. MANHOLE FRAMES, COVERS, VALVES, CLEAN-OUTS, ETC. SHALL BE RAISED TO GRADE PRIOR TO FINAL PAVEMENT CONSTRUCTION.
10. A STOP BAR SHALL BE PLACED AT ALL STOP SIGN LOCATIONS.
11. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISIONS OF THE APPROVED CONSTRUCTION PLANS.
12. GEOTECHNICAL INVESTIGATION INFORMATION AND PAVEMENT RECOMMENDATIONS WERE PROVIDED BY MLA GEOTECHNICAL. PAVEMENT RECOMMENDATIONS ARE AS FOLLOWS:
13. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL, CITY OF LEANDER STANDARD DETAILS AND TEXAS DEPARTMENT OF TRANSPORTATION CRITERIA, SHALL BE SUBMITTED TO THE CITY OF LEANDER FOR REVIEW AND APPROVAL PRIOR TO ANY PARTIAL OR COMPLETE ROADWAY CLOSURES. TRAFFIC CONTROL PLANS MUST BE SITE SPECIFIC AND SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
14. ALL LANE CLOSURES SHALL OCCUR ONLY BETWEEN THE HOURS OF 9 AM AND 4 PM UNLESS OTHERWISE NOTED ON THE PLANS. ANY NIGHT TIME LANE CLOSURES REQUIRE APPROVAL OF THE CITY ENGINEER AND SHALL OCCUR BETWEEN THE HOURS OF 8 PM AND 6 AM. LANE CLOSURES OBSERVED BY THE CITY DURING PEAK HOURS OF 6 AM TO 9 AM OR 4 PM TO 8 PM WILL BE SUBJECT TO A FINE AND/OR SUBSEQUENT ISSUANCE OF WORK STOPPAGE.
15. TEMPORARY ROCK CRUSHING IS NOT ALLOWED. ALL SOURCES OF FLEXIBLE BASE MATERIAL ARE REQUIRED TO BE APPROVED BY THE CITY. PRIOR TO BASE PLACEMENT ALL CURRENT TRIAXIAL TEST REPORTS FOR PROPOSED STOCK PILES ARE TO BE SUBMITTED TO THE CITY CONSTRUCTION INSPECTOR FOR REVIEW AND APPROVAL.
16. AT ROAD INTERSECTIONS THAT HAVE A VALLEY GUTTER, THE CROWN TO THE INTERSECTING ROAD WILL BE CULMINATED AT A DISTANCE OF 40 FEET FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.
17. NO PONDING OF WATER SHALL BE ALLOWED TO COLLECT ON OR NEAR THE INTERSECTION OF PRIVATE DRIVEWAYS AND PUBLIC STREETS. RECONSTRUCTION OF THE DRIVEWAY APPROACH SHALL BE AT THE CONTRACTOR'S EXPENSE.
18. ALL DRIVEWAY APPROACHES SHALL HAVE A UNIFORM TWO PERCENT SLOPE WITHIN THE PUBLIC RIGHT OF WAY UNLESS APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT.
19. IMPROVEMENTS THAT INCLUDE RECONSTRUCTION OF AN EXISTING TYPE II DRIVEWAY SHALL BE DONE IN A MANNER WHICH RETAINS OPERATIONS OF NOT LESS THAN HALF OF THE DRIVEWAY TO REMAIN OPEN AT ALL TIMES. FULL CLOSURE OF SUCH DRIVEWAY CAN BE CONSIDERED WITH WRITTEN AUTHORIZATION OBTAINED BY THE CONTRACTOR FROM ALL PROPERTY OWNERS AND ACCESS EASEMENT RIGHT HOLDERS ALLOWING THE FULL CLOSURE OF THE DRIVEWAY.
20. CONTRACTOR MUST CLEAR FIVE (5) FEET BEYOND ALL PUBLIC RIGHT OF WAY TO PREVENT FUTURE VEGETATIVE GROWTH INTO THE SIDEWALK AREAS.
21. SLOPE OF NATURAL GROUND ADJACENT TO THE PUBLIC RIGHT OF WAY SHALL NOT EXCEED 3:1 IF A 3:1 SLOPE IS NOT POSSIBLE, SLOPE PROTECTION OR RETAINING WALL MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE.
22. THERE SHALL BE NO WATER, WASTEWATER OR DRAINAGE APPURTENANCES, INCLUDING BUT NOT LIMITED TO VALVES, FITTINGS, METERS, CLEAN-OUTS, MANHOLES, OR VAULTS IN ANY DRIVEWAY, SIDEWALK, TRAFFIC OR PEDESTRIAN AREA.
23. PUBLIC SIDEWALKS SHALL NOT USE CURB INLETS AS PARTIAL WALKING SURFACE. SIDEWALKS SHALL NOT USE TRAFFIC CONTROL BOXES, METERS, CHECK VALVE VAULTS, COMMUNICATION VAULTS, OR OTHER BURIED OR PARTIALLY BURIED INFRASTRUCTURE AS A VEHICULAR OR PEDESTRIAN SURFACE.
24. ALL WET UTILITIES SHALL BE INSTALLED AND ALL DENSITIES MUST HAVE PASSED INSPECTION(S) PRIOR TO THE INSTALLATION OF DRY UTILITIES.
25. DRY UTILITIES SHALL BE INSTALLED AFTER SUBGRADE IS CUT AND BEFORE THE FIRST COURSE OF BASE. NO TRENCHING COMPACTED BASE. IF NECESSARY DRY UTILITIES INSTALLED AFTER FIRST COURSE BASE SHALL BE BORED ACROSS THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY.
26. A MINIMUM OF SEVEN (7) DAYS OF CURE TIME IS REQUIRED FOR HMAC PRIOR TO THE INTRODUCTION OF VEHICULAR TRAFFIC TO ALL STREETS.

TRENCH SAFETY NOTES

1. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT ARE DESCRIBED IN ITEM 509S “TRENCH SAFETY SYSTEMS” OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATION SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

GRADING NOTES

1. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
2. THE CONTRACTOR SHALL CONSTRUCT EARTHEN EMBANKMENTS WITH SLOPES NO STEEPER THAN 3:1 AND COMPACT SOIL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
3. AREAS OF SOIL DISTURBANCE ARE LIMITED TO GRADING AND IMPROVEMENTS SHOWN. ALL OTHER AREAS WILL NOT BE DISTURBED.

BENCHMARK NOTES

1. TBM #1
CHISLED SQUARE IN NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD
NORTHING - 10182375.99
EASTING - 3084063.56
ELEVATION - 1,003.70

PROJECT NOTES:

1. CONTRACTOR SHALL MAINTAIN MINIMUM 24” CLEARANCE FROM ALL EXISTING UTILITIES.
2. FOR PUBLIC WATER & WASTEWATER LINE EMERGENCIES, CONTACT THE CITY OF LEANDER pUBLIC WORKS EMERGENCY 24-HOUR ON-CALL LINE AT 512-690-4760.
3. THE CONTRACTOR SHALL CONTACT THE TEXAS EXCAVATION SAFETY SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES THAT ARE TO BE EXTENDED, TIED TO, CROSSED, OR ALTERED; OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.
4. CONTACT THE CITY OF LEANDER PUBLIC WORKS DEPARTMENT FOR EXISTING WATER, WASTEWATER, STREET LIGHT ELECTRICAL WIRING, AND TRAFFIC SIGNAL WIRING LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
a. LOCATE REQUESTS MUST INCLUDE A COPY OF YOUR 811 TICKET.
b. REFRESH ALL LOCATES BEFORE 14 DAYS – LOCATE REFRESH REQUESTS MUST INCLUDE A COPY OF YOUR 811 TICKET. TEXAS PIPELINE DAMAGE PREVENTION LAWS REQUIRE THAT A LOCATE REFRESH REQUEST BE SUBMITTED BEFORE 14 DAYS, OR IF LOCATION MARKERS ARE NO LONGER VISIBLE.
c. REPORT ALL DAMAGE TO CITY INFRASTRUCTURE IMMEDIATELY – IF YOU WITNESS OR EXPERIENCE EXCAVATION DAMAGE, PLEASE CONTACT THE CITY OF LEANDER PUBLIC WORKS DEPARTMENT BY PHONE. IF DAMAGE IS WITNESSED OR EXPERIENCED AFTER HOURS, CALL THE CITY OF LEANDER UTILITIES ON-CALL LINE AT THE NUMBER LISTED ABOVE.
5. A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT & CITY OF LEANDER REPRESENTATIVES PRIOR TO INSTALLATION OF EROSION/SEDIMENTATION CONTROLS & TREE PROTECTION MEASURES AS WELL AS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CITY OF LEANDER PLANNING DEPARTMENT AT 512-528-2750 AT LEAST THREE (3) DAYS PRIOR TO MEETING DATE.
6. CITY OF LEANDER NOISE ORDINANCE PROHIBITS CONSTRUCTION ACTIVITY BETWEEN THE HOURS OF 9 PM AND 7 AM. REQUESTS FOR EXCEPTIONS TO THE ORDINANCE MUST BE MADE TO LEANDER CITY COUNCIL.
7. CONTRACTOR SHALL BORE UNDER ALL DRIVEWAYS, STREET CROSSINGS AND OTHER PAVED AREAS. OPEN CUT CROSSING SHALL NOT BE ALLOWED.
8. CONTRACTOR SHALL REPLACE ALL DAMAGED PAVEMENT, CURB & GUTTER, SIDEWALK, CURB INLETS AND ALL OTHER INFRASTRUCTURE DAMAGED BY CONSTRUCTION PER CITY OF LEANDER STANDARDS & SPECIFICATIONS.
9. AL CLAWSON DISPOSAL, INC. SHALL BE THE SOLE PROVIDER OF WASTE HAULING AFTER CONSTRUCTION.
10. ALL UNDERGROUND UTILITY LINES SHALL CROSS UNDERNEATH WATERLINES.
11. THE MINIMUM DEPTH OF COVER FOR UTILITY LINES INSTALLED UNDER CITY OF LEANDER ROADWAYS SHALL BE 36” BENEATH FINISHED GRADE.

EROSION CONTROL & RESTORATION:

1. THE CITY OF LEANDER ENVIRONMENT INSPECTOR HAS THE AUTHORITY TO ADD OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
2. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 6” TOPSOIL. THE 6” MINIMUM SOIL DEPTH SHALL CONSISTS OF 75% SOIL BLENDED WITH 25% COMPOST.
3. ALL DISTURBED AREAS SHALL BE RE-VEGETATED USING ONLY APPROVED GRASSES FROM THE GROW GREEN GUIDE.

GOODE FAITH ENGINEERING
EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

GENERAL NOTES

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS

NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
1.			
2.			
3.			
4.			
5.			
6.			

ANTHONY H. GOODE
97263
4-1-24

Mac Haik Quick Lane
Final Plat
5.725 Acres
Situated in the Elijah D. Harmon Survey, Abstract No. 6
Williamson County, Texas

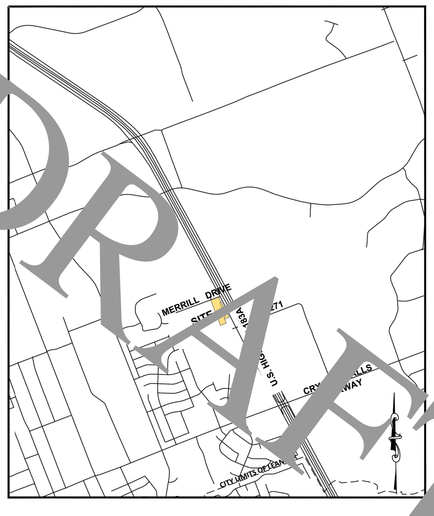
Owner Name: MH Leander Realty, LLC
Address: 11750 Katy Freeway, Suite 1300
Houston, Texas 77079
Phone: 281-496-7788

Developer: Mac Haik Automotive Group
Address: 10333 Katy Fwy, Houston, Texas, 77024
Phone: 281-979-2520

Surveyor: William F. Forest, RPLS 1847
Forest Surveying and Mapping Co.
Address: 1002 Ash St. Georgetown, Texas 78626
Phone: 512-930-5927

Engineer/Agent: Anthony Goode, PE 97263
Company: Goode Faith Engineering
Address: 1620 La Jaita Drive Suite 300
Cedar Park, Texas 78613
Phone: 972-822-1682

Filing Date: 01/30/2024



LOCATION MAP
SCALE: 1" = 2000'

Index
Sheet One: Cover sheet
Sheet Two: Plat
Sheet Three: Plat notes and signature page

Subidivision Information Table:
Total number of lots: 1

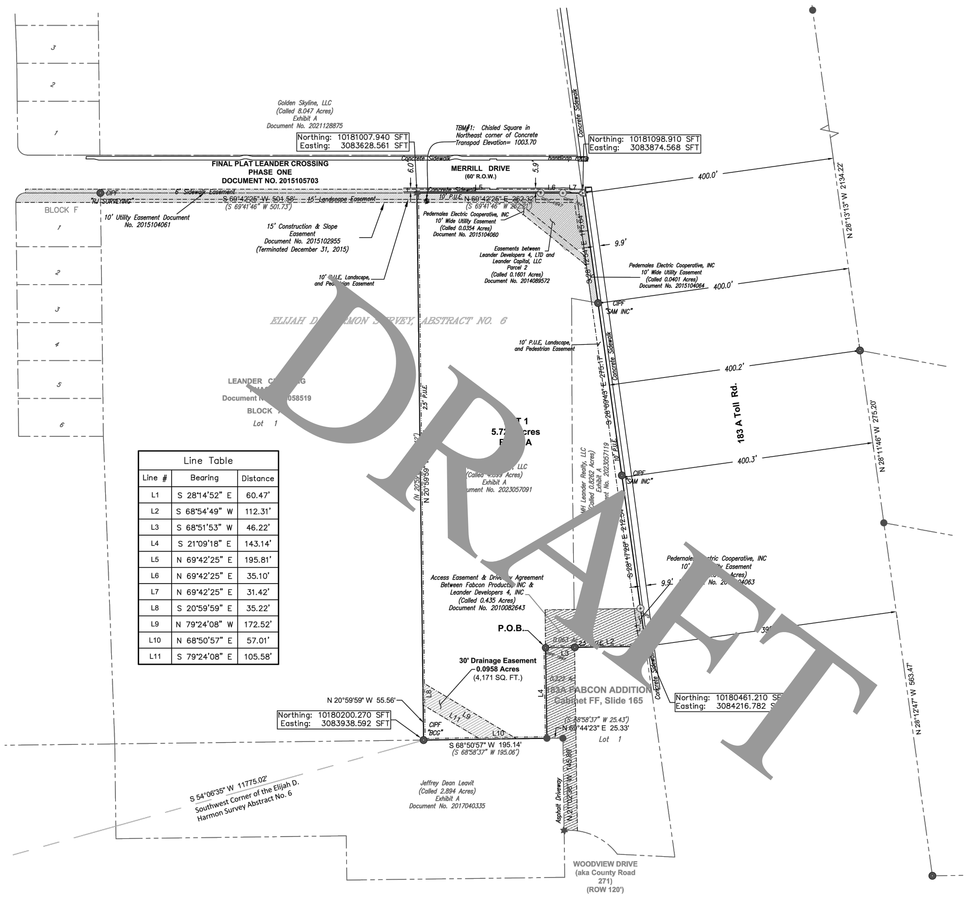
Lot 1: 5.725 Acres

Proposed use of lots is Commercial

Mac Haik Quick Lane
Final Plat
5.725 Acres
Situated in the Elijah D. Harmon Survey, Abstract No. 6
Williamson County, Texas

Forest Surveying & Mapping Company
1002 Ash Street, Georgetown, Texas
Phone: (512) 930-5927
www.forestsurveying.com
TBPLS FIRM NO. 100020000
Surveying Services are regulated by the Texas Board of Professional Engineers and Land Surveyors
1017 S. Interstate 35 Austin, TX 78741, US (512) 440-7723

Revision	
Drawing Date: June 20, 2023	
010824	Field Book/Page: 156/18
01-22-2024	PP: P:\HAIK
03-15-2024	Dwg: MAC HAIK QUICK LANE SHORT FORM FINAL
	LO: SHEET ONE
	Sheet: 1 of 3



Line Table		
Line #	Bearing	Distance
L1	S 28°14'52" E	60.47'
L2	S 68°54'49" W	112.31'
L3	S 68°51'53" W	46.22'
L4	S 21°09'18" E	143.14'
L5	N 69°42'25" E	195.81'
L6	N 69°42'25" E	35.10'
L7	N 69°42'25" E	31.42'
L8	S 20°59'59" E	35.22'
L9	N 79°24'08" W	172.52'
L10	N 68°50'57" E	57.01'
L11	S 79°24'08" E	105.58'

Note:
The bearing basis for this survey is the State Plane Coordinate System
NAD83, Texas Central Zone, (4203)
GEOID: 18
DATUM: NAVD88
CONVERGENCE: 1°15'55.67"
COMBINED SCALE FACTOR: 0.99988145
All distances shown hereon are surface values, based on a grid to surface combined scale factor of 1.00013857

0 100 200 Feet
SCALE: 1" = 100'

LEGEND

1/2" IRON PIN FOUND (STEEL PIN)	
CAPPED IRON PIN SET "FOREST RPLS 1847"	OPS 1847
CAPPED IRON PIN FOUND "FOREST RPLS 1847"	SET 1847
NAIL SET/WASHER "FOREST RPLS 1847"	
NAIL FOUND/WASHER "FOREST RPLS 1847"	
CAPPED IRON PIN FOUND	
COTTON GIN SPINDLE FOUND	
COTTON GIN SPINDLE SET	
BENCHMARK MONUMENT (COTTON SPINDLE SET)	
WATER WELL	
SURVEY/ABSTRACT LINES	
TRACT LINES	
BOUNDARY LINES	

( ) Denotes Record Information
All document references are in Williamson County, Texas
O.P.R.W.C.T. Official Public Records of Williamson County, Texas
P.R.W.C.T. Plat Records of Williamson County, Texas
D.R.W.C.T. Deed Records of Williamson County, Texas

Mac Haik Quick Lane
Final Plat
5.725 Acres
Situated in the Elijah D. Harmon Survey, Abstract No. 6
Williamson County, Texas

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Revision	
Drawing Date: June 20, 2023	
010824	Field Book/Page: 156/18
01-22-2024	PP: P:\HAIK
03-15-2024	Dwg: MAC HAIK QUICK LANE SHORT FORM FINAL
04-02-2024	LO: SHEET TWO
	Sheet: 2 of 3

03 OF 24

REVISIONS			
NO.	DESCRIPTION	ENGINEER'S BY	APPROVAL DATE
1.			
2.			
3.			
4.			
5.			
6.			

CHECKED BY: ARG
DESIGNED BY: BLB
PROJECT NO. 23-0080
DATE 04/01/2024

MAC HAIK QUICK LANE

FINAL PLAT (1 OF 2)

THIS ITEM IS RELEASED FOR THE PURPOSE OF CIVIL ENGINEERING AND PLANNING. IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES. REGISTRATION NO. F-12664

General Plat Notes:

1. This subdivision is wholly contained within the current corporate limits of the City of Leander, Texas.
2. No lot in this subdivision shall be occupied until connected to the City of Leander water distribution and wastewater collection facilities.
3. A Building Permit is required from the City of Leander prior to construction of any building or site improvements on any lot in this subdivision.
4. No buildings, fences, landscaping or other structures are permitted within drainage easements shown except as approved by the City of Leander Public Works Department.
5. Property owner shall provide for access to drainage easements as may be necessary and shall not prohibit access by the City of Leander.
6. All easements on private property shall be maintained by the property owner or his or her assigns.
7. In addition to the easement shown hereon, a ten (10') foot wide public utility easement is dedicated along and adjacent to all right-of-way and a two and a half (2.5') foot wide public utility easement is dedicated along all side lot lines.
8. No portion of this tract is within a flood hazard area as shown on the Flood Insurance Rate Map Panel # 48491C0455F for Williamson Co., effective 12/20/2019.
9. Building setbacks not shown hereon shall comply with the most current zoning ordinance of the City of Leander. Additional residential garage setbacks may be required as listed in the current zoning ordinance. (inside City only)
10. Sidewalks are installed on both sides of Merrill Drive and the subdivision side of 183A Toll Road. Those sidewalks not abutting a residential, commercial or industrial lot (including sidewalks along street frontages of lots proposed for schools, churches, park lots, detention lots, drainage lots, landscape lots, or similar lots), sidewalks on arterial streets to which access is prohibited, sidewalks on double frontage lots on the sided to which access is prohibited, and all sidewalks on safe school routes shall be installed when the adjoining street is constructed.
11. All utility lines must be located underground.
12. This plat conforms to the Preliminary Plat approved by the Planning & Zoning Commission on 12/21/2023
13. Approval of this final plat does not constitute the approval of variances or waivers to ordinance requirements.
14. All drive lanes, fire lanes, and driveways within this subdivision shall provide for reciprocal access for ingress and egress to all other lots within the subdivision and to adjacent properties.

Owners Signature Block

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

That MH Leander Realty,LLC, as the owner of that certain 4.899 acre tract of land Electronically recorded in Document No. 2023057091, of the Official Records of Williamson County, Texas, Total Pages: 7, does hereby certify that there are no lien holders and dedicates to the public forever use of all additional ROW, streets, alleys, easements, parks, and all other lands intended for public dedication, or when the subdivider has made provision for perpetual maintenence thereof, to the inhabitants of the subdivision as shown hereon to be known as Mac Haik Quick Lane Subdivision.

TO CERTIFY WHICH, WITNESS by my hand this _____day of_____2024.

MH Leander Realty, LLC

_____
Mac Haik

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

KNOW ALL MEN BY THESE PRESENTS

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this the_____ day of _____, 2024, personally appeared, _____, as _____ of _____, a _____, on behalf of said _____, a duly authorized agent with authority to sign said document, personally known to personally known to me (and proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed..

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this ____day of_____, 2024.

_____
Notary Public-State of Texas

Printed Name: _____

My Commission expires on:_____

Owners Signature Block

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

That MH Leander Realty, LLC as the owner of that certain 0.8262 acre tract of land Electronically recorded in Document No. 2023057119, of the Official Records of Williamson County, Texas, Total Pages: 6, does hereby certify that there are no lien holders and dedicates to the public forever use of all additional ROW, streets, alleys, easements, parks, and all other lands intended for public dedication, or when the subdivider has made provision for perpetual maintenence thereof, to the inhabitants of the subdivision as shown hereon to be known as Mac Haik Quick Lane Subdivision.

TO CERTIFY WHICH, WITNESS by my hand this _____day of_____2024.

MH Leander Realty, LLC

_____
Mac Haik

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

KNOW ALL MEN BY THESE PRESENTS

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this the_____ day of _____, 2024, personally appeared, _____, as _____ of _____, a _____, on behalf of said _____, a duly authorized agent with authority to sign said document, personally known to personally known to me (and proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed..

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this ____day of_____, 2024.

_____
Notary Public-State of Texas

Printed Name: _____

My Commission expires on:_____

Engineer's Certification

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

KNOW ALL MEN BY THESE PRESENTS

That I, Anthony Goode, Registered Professional Engineer in the State of Texas, am authorized under the laws of the State of Texas to practice the profession of engineering and hereby state that this plat conforms with the applicable ordinances of the City of Leander, Texas.

_____ _____
Anthony Goode, PE Date
Registered Professional Engineer No. 97263
Goode Faith Engineering, LLC
TBPELS FIRM No.F-22664
1620 La Jaita Dr, Ste 300
Cedar Park, Texas 78613

Surveyor's Certification

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

KNOW ALL MEN BY THESE PRESENTS

That I, William F. Forest, Jr., Registered Professional Land Surveyor in the State of Texas, am authorized under the laws of the State of Texas to practice the profession of land surveying and hereby state that I prepared this plat from an actual and accurate on-the-ground survey of the land and that the corner monuments shown thereon were properly placed under my personal supervision, in accordance with all City of Leander Ordinance and Codes, and that all existing easements of record as found on the Title Policy provided by First American Title Guaranty Company GF No.2801027-AU23, issued April 11, 2023 and GF No.2801046-AU23 issued April 11, 2023, have been shown or noted heron. This tract is not within the Edwards Aquifer Recharge Zone.

_____ _____
William F. Forest, Jr. Date
Registered Professional Land Surveyor No. 1847, State of Texas
Forest Surveying & Mapping Co.
TBPELS, Firm Registration No. 100020000
1002 S. Ash
Georgetown, Texas 78626

Planning and Zoning Commission

Approved this _____ day of_____, 20___, A.D. at a public meeting of the Planning and Zoning Commission of the City of Leander, Texas and authorized to be filed for record by the County Clerk of Williamson County.

_____ ATTEST:_____
Laura Lantrip Ellen Cousar, Secretary
Planning and Zoning Commission Planning and Zoning Commission
City of Leander, Texas City of Leander, Texas

PERIMETER DESCRIPTION

BEING 5.725 acres of land, situated in the Elijah D. Harmon Survey, Abstract No. 6, in Williamson County, Texas, said 5.725 acres being out of six (6) tracts of land, First Tract: being a portion out of a 50.00 acre tract, of record to Leander Developers 4, LTD, Exhibit A, Document No. 2005077774, Official Public Records Williamson County, Texas (OPRWCT), Second Tract: being a portion out of a 1.23 acre tract, of record to Leander Developers 4, LTD, Document No. 2006041056, (OPRWCT), Third Tract: being a portion out of a 0.26 acre tract, of record to Leander Developers 4, LTD, Document No. 2006041057, (OPRWCT), Fourth Tract: being all of a 0.150 acre tract, of record to Leander Developers 4, LTD, Exhibit A, Document No. 2008085305, (OPRWCT), Fifth Tract: being all of a 0.37 acre tract, of record to Fabcon Products, INC., Exhibit A, Tract I, Document No. 2007051249, (OPRWCT), Sixth Tract: being a portion of a 1.58 acre tract, of record to Fabcon Products, INC., Exhibit A, Tract II, Document No. 2007051249, (OPRWCT). This tract was surveyed on the ground in March of 2023 under the direction of William F. Forest, Jr., Registered Professional Land Surveyor No. 1847. Survey note: The bearing basis for this survey is the State Plane Coordinate System, Texas Central Zone (4203), and being more particularly described by metes and bounds as follows:

BEGINNING, at a ½" capped iron pin found (steel pin), marked "RPLS 1847", said point being a point in the East boundary line of said 50.00 acre tract, same being a point in the West boundary line of said 1.23 acre tract, said point being the Northwest corner of the 183A Fabcon Addition, recorded in Cabinet FF, Slide 16, Plat Records Williamson County, Texas (PRWCT),

THENCE, with the common boundary line of said 50.00 acre tract, and the West boundary line of said 183A Fabcon Addition, along or near a fence, S 21°09'18" E, 143.14 feet, to a ½" iron pin found, at an ell corner of said 183A Fabcon Addition, said point being a point in the North boundary line of a 2.894 acre tract, of record to Jeffrey Dean Leavit, Exhibit A, Document No. 2017040335, (OPRWCT), for the Southeast corner hereof, from which a ½" iron pin found, at the Northeast corner of said 2.894acre tract, bears: N 69°44'23" E, 25.33 feet,

THENCE, with the common boundary line of said 50.00 acre tract and said 2.894 acre tract, along or near a fence, S 68°50'57" W, 195.14 feet, to a ½" capped iron pin found, marked "BCG", at the Southeast corner of Leander Crossing, Phase 3, recorded in Document No. 2018058519, (OPRWCT), for the Southwest corner hereof,

THENCE, over and across said 50.00 acre tract, with East boundary line of said Leander Crossing, Phase 3, N 20°59'59" W, 865.25 feet, to a steel cotton gin spindle found, in the South Right-of-Way boundary line of Merrill Drive, a 60 foot Right-of-Way, a part of Leander Crossing, Phase One, recorded in Document No. 2015105703, (OPRWCT), said point being the Northeast corner of said Leander Crossing, Phase 3, for the Northwest corner hereof, from which a ½" capped iron pin found, marked "RJ SURVEYING", at the Northwest corner of said Leander Crossing, Phase 3, bears: S 69°42'25" W, 501.58 feet,

THENCE, continuing over and across said 50.00 acre tract, with said South Right-of-Way line of Merrill Drive, N 69°42'25" E, passing at 195.81 feet, a ½" capped iron pin set, marked "RPLS 1847", at the common boundary line of said 50 acre tract and said 1.23 acre tract, and continuing over and across said 1.23 acre tract, with said South Right-of-Way line of Merrill Drive, passing at 230.91 feet, a ½" capped iron pin set, marked "RPLS 1847", at the common boundary line of said 1.23 acre tract and said 0.26 acre tract, and continuing over and across said 0.26 acre tract, and said South Right-of-Way line of Merrill Drive, in all a total distance of 262.32 feet, to a Mag nail set with washer, marked "RPLS 1847", in the concrete sidewalk, in the West Right-of-Way line of U.S. Highway 183A, said point being a point in the East boundary line of said 0.26 acre tract, said point being the Southeast corner of said Merrill Drive, for the Northeast corner hereof,

THENCE, with the East boundary line of said 0.26 acre tract and said West Right-of-Way line of U. S. Highway 183A, S 28°12'54" E, 175.64 feet, to a ½" capped iron pin found, marked "SAM INC", at the Southeast corner of said 0.26 acre tract, same being the Northeast corner of said 0.37 acre tract, for an angle point hereof, from which a ¾" capped iron pin found, at the Northwest corner of said 0.37 acre tract, bears: S 79°50'19" W, 42.83 feet,

THENCE, with the East boundary line of said 0.37 acre tract and said West Right-of-Way line of U. S. Highway 183A, along or near a fence, S 28°09'43" E, 275.17 feet, to a ½" capped iron pin found, marked "SAM INC", at the Southeast corner of said 0.37 acre tract, said point being the Northeast corner of said 1.58 acre tract, for an angle point hereof, from which a ½" iron pin found, at the Southwest corner of said 0.37 acre tract, bears: S 79°54'33" W, 79.91 feet,

THENCE, with the East boundary line of said 1.58 acre tract and said West Right-of-Way line of U. S. Highway 183A, along or near a fence, S 28°17'26" E., 212.54 feet, to a ½" capped iron pin set, marked "RPLS 1847", at the Northeast corner of said 0.150 acre tract, for an angle point hereof, from which a ½" capped iron pin found, mark not legible, at the Northwest corner of said 0.150 are tract, bears: S 68°52'38" W, 104.94 feet,

THENCE, with the East boundary line of said 0.150 acre tract and said West Right-of-Way line of U.S. Highway 183A, S 28°14'52" E, 60.47 feet, to a ½" iron pin found, at the Southeast corner of said 0.150 acre tract, same being the Northeast corner of said 183A Fabcon Addition, for an angle point hereof,

THENCE, departing said Right-of-Way line, with the common boundary line of said 0.150 acre tract and said 183A Fabcon Addition, S 68°54'49" W, 112.31 feet, to a ½" capped iron pin found, mark not legible, at the Southwest corner of said 0.150 acre tract, said point being a point in the East boundary line of said 1.23 acre tract, for an angle point hereof,

THENCE, over and across said 1.23 acre tract, with the North boundary line of said 183A Fabcon Addition, S 68°51'53" W, 46.22 feet, to the POINT OF BEGINNING, and containing 5.725 acres, more or less.

County Clerk's Certification

STATE OF TEXAS §
§
COUNTY OF WILLIAMSON §

KNOW ALL MEN BY THESE PRESENTS

I, **NANCY RISTER**, CLERK OF THE COUNTY COURT OF SAID COUNTY, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT IN WRITING, WITH ITS CERTIFICATE OF AUTHENTICATION WAS FILED FOR RECORD IN MY OFFICE ON THE _____ DAY OF _____, 2024, A.D., AT _____ O'CLOCK,__M., AND WAS RECORDED THIS THE _____ DAY OF _____, 2023, A.D., AT_____ O'CLOCK, ___M., OF OFFICIAL PUBLIC RECORDS OF SAID COUNTY IN DOCUMENT NO._____

TO CERTIFY WHICH, WITNESS MY HAND AND SEAL AT THE COUNTY COURT OF SAID COUNTY, AT MY OFFICE IN GEORGETOWN, TEXAS, THE DATE LAST SHOWN ABOVE WRITTEN.

NANCY RISTER, CLERK, COUNTY COURT OF
WILLIAMSON COUNTY, TEXAS

BY:_____, DEPUTY

Mac Haik Quick Lane
Final Plat
5.725 Acres
Situated in the Elijah D. Harmon Survey, Abstract No. 6
Williamson County, Texas

Forest Surveying & Mapping Company
1002 Ash Street, Georgetown, Texas
Phone: (512) 930-5927
www.forestsurveying.com
TBPLS FIRM NO. 100020000

Surveying Services are regulated by the Texas Board of Professional Engineers and Land Surveyors
1011 S. Interstate 35 Austin, TX 78741, US (512) 440-7723

Revision	Drawing Date: January 8, 2024
010824	Field Book/Page: 156/18
01-22-2024	PP: P:\HAIK
03-15-2024	Dwg: MAC HAIK QUICK LANE SHORT FORM FINAL
	LO: SHEET THREE
	Sheet: 3 OF 3
	Forest Surveying & Mapping Co. © 2024

04 OF 24

REVISIONS			
NO.	DESCRIPTION	ENGINEER'D BY	APPROVAL DATE
1.			
2.			
3.			
4.			
5.			
6.			

CHECKED BY
ARG

DESIGNED BY
BLB

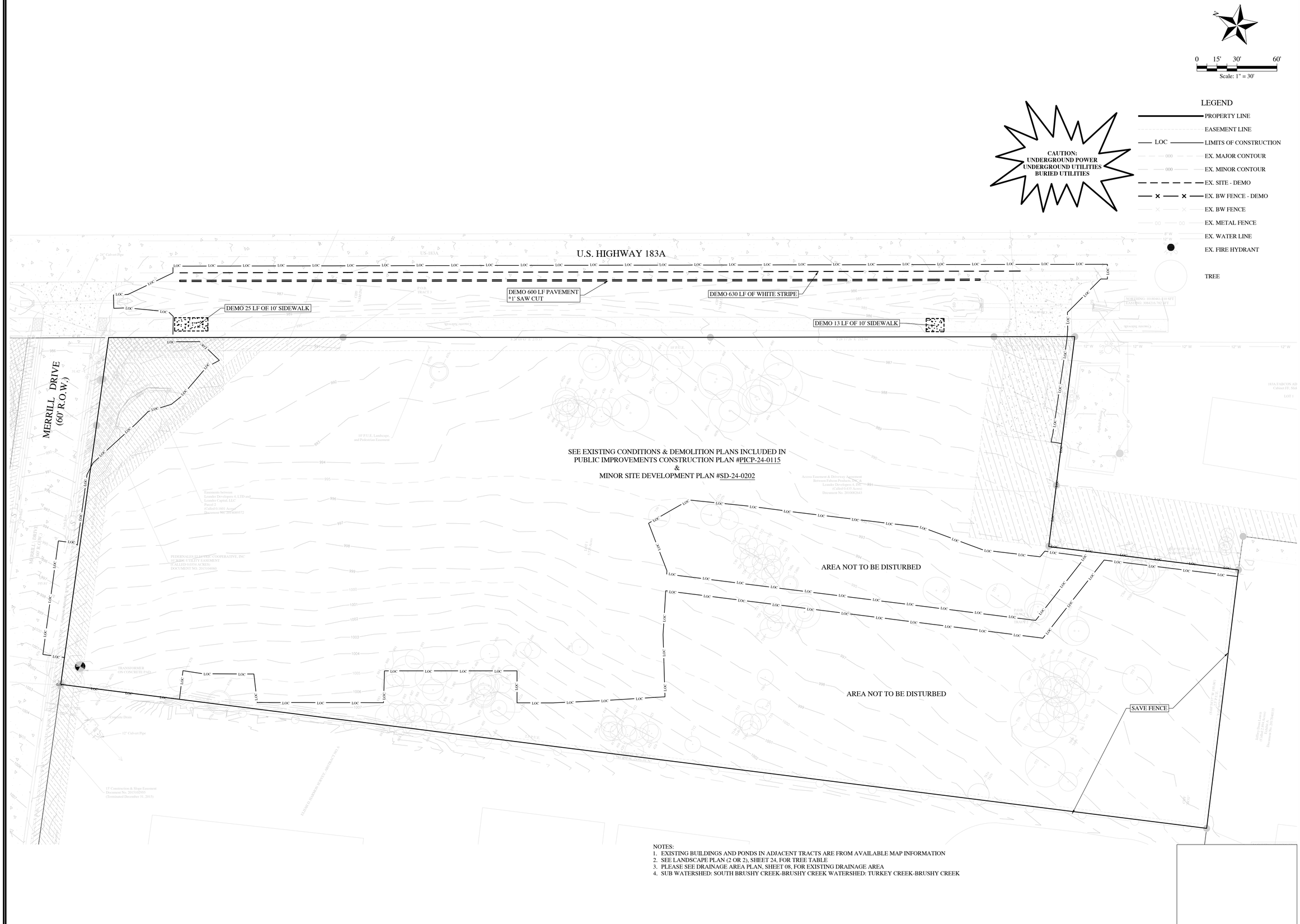
PROJECT NO.
25-0080

DATE
04/01/2024

MAC HAIK QUICK LANE

FINAL PLAT (2 OF 2)

CIVIL ENGINEERING AND PLANNING
TBPE FIRM REGISTRATION NO. F-22664



NOTES:
1. EXISTING BUILDINGS AND PONDS IN ADJACENT TRACTS ARE FROM AVAILABLE MAP INFORMATION
2. SEE LANDSCAPE PLAN (2 OR 2), SHEET 24, FOR TREE TABLE
3. PLEASE SEE DRAINAGE AREA PLAN, SHEET 08, FOR EXISTING DRAINAGE AREA
4. SUB WATERSHED: SOUTH BRUSHY CREEK-BRUSHY CREEK WATERSHED: TURKEY CREEK-BRUSHY CREEK

GOODE FAITH ENGINEERING
EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

EXISTING CONDITIONS & DEMOLITION PLAN

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS				
NO.	DESCRIPTION	ENGINEER INIT.	APPROVAL INITIAL	
1				
2				
3				
4				
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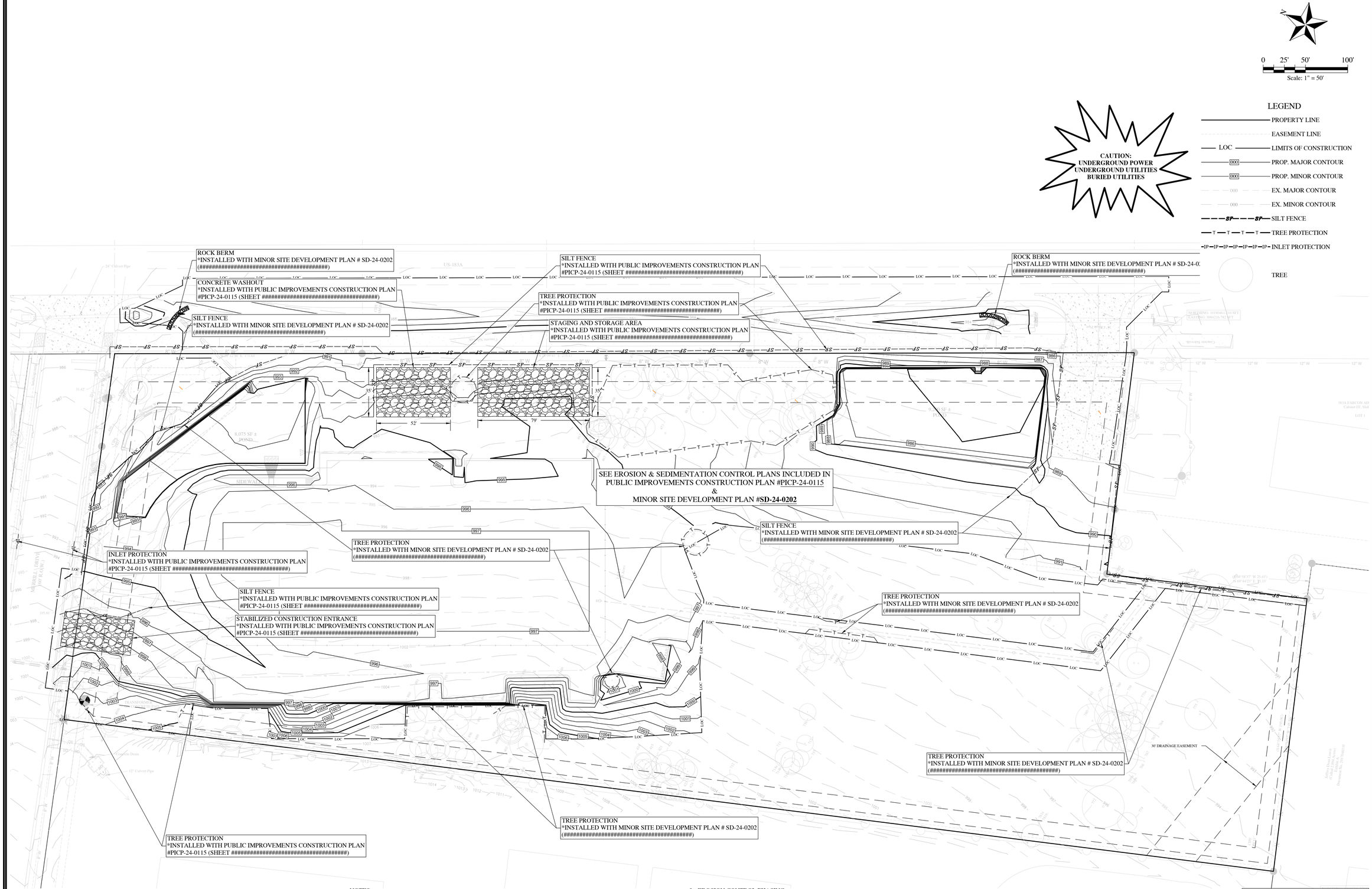
STATE OF TEXAS
ANTHONY H. GOODE
97283
LICENSED
PROFESSIONAL ENGINEER
4-1-24



NOTES:
1. THE CITY OF LEANDER ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD OR MODIFY EROSION/SEDIMENT CONTROLS ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
2. ON-SITE EROSION CONTROL MEASURES TO BE ESTABLISHED AND MAINTAINED AROUND TEMPORARY/PERMANENT SPOILS LOCATION, CONCRETE WASHOUT AND CONTRACTOR STAGING AREAS.

3. EROSION CONTROL PHASING
PHASE 1: PUBLIC IMPROVEMENTS CONSTRUCTION PLAN #PICP-24-0115
- PRE-DEMOLITION INSTALL SILT-FENCE, TREE PROTECTION, & INLET PROTECTION
- POST-DEMOLITION INSTALL CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AREA, & STORAGE AREA

PHASE 2: MINOR SITE DEVELOPMENT PLAN #SD-24-0202
- PRE-DEMOLITION INSTALL SILT-FENCE & TREE PROTECTION

PHASE 3: SITE DEVELOPMENT PLAN #SD-23-0170
- POST CONSTRUCTION CONTRACTOR REMOVE ALL EROSION CONTROLS.
- ALL ROCK BERMS AND INLET PROTECTION TO BE REMOVED BY THE CONTRACTOR

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021

CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

EROSION & SEDIMENTATION CONTROL PLAN

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS				
NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
1			
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STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED
PROFESSIONAL ENGINEER
4-1-24

EROSION AND SEDIMENT CONTROLS

POTENTIAL POLLUTANTS

POTENTIAL SOURCES OF STORM WATER POLLUTION FROM THE CONSTRUCTION OF THE PROJECT ARE:

1. DISTURBED SOILS FROM THE CONSTRUCTION SITE

INCREASED SEDIMENT LOADING IN STORM WATER CAN BE ATTRIBUTED TO- A)DIRECT RAINFALL ONTO DISTURBED SOIL AREAS, STOCKPILES, SAND, GRAVEL, AND ROCK AREA WHERE RAIN DISLODGES SOIL PARTICLES; B) EROSION OF DISTURBED SOIL AREAS; C) THE TRANSFER OF SOILS BY EQUIPMENT OR VEHICLE TIRES ONTO DISTURBED AND NON-DISTURBED AREAS WHERE THEY ARE WASHED INTO DRAINAGE DITCHES OR OTHER SIMILAR WATER CONVEYANCE FEATURE

2. OIL, GREASE, HYDRAULIC FLUIDS, AND FUELS FROM THE OPERATION OF EQUIPMENT ON THE SITE.

THERE IS A POTENTIAL FOR STORM WATER CONTAMINATION IN THE FORM OF OIL, GREASE, HYDRAULIC FLUID, AND FUEL FROM EQUIPMENT AND VEHICLES ON THE SITE. THESE SUBSTANCES ARE TYPICALLY RELEASED TO THE ENVIRONMENT BECAUSE OF EQUIPMENT FAILURE AND DURING MAINTENANCE OPERATIONS.

SITE LOCATION MAP
SEE CONSTRUCTION DRAWING PLAN SET PROJECT LOCATION MAP

DETAILED SITE MAP
SEE CONSTRUCTION DRAWING PLAN SET SITE MAP

RECEIVING WATERS
FOR IDENTIFICATION OF RECEIVING WATERS ON OR ADJACENT TO THE SITE REFERENCE DETAILED CONSTRUCTION DRAWING PLAN SET "EXISTING CONDITIONS PLAN".

STATE AND LOCAL PLANS
THE SWPPP IS CONSISTENT WITH REQUIREMENTS SPECIFIED IN APPLICABLE STORM WATER, WATER QUALITY, SEDIMENT, AND EROSION SITE PLANS, PERMITS OR SIMILAR ORDINANCES OF LOCAL, STATE, OR FEDERAL OFFICIALS.

THIS PROJECT IS LOCATED IN THE EDWARDS AQUIFER CONTRIBUTING ZONE.
SEQUENCE OF MAJOR ACTIVITIES
1. INSTALLATION OF TEMPORARY EROSION CONTROLS.
2. SITE DEMOLITION AND GRADING.
3. CONSTRUCTION OF FACILITIES.
4. SITE RESTORATION.
5. ASPHALT REPAIR, SEEDING, RE-VEGETATION, AND SOIL SURFACE PROTECTION.
6. REMOVAL OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

TEMPORARY AND PERMANENT EROSION CONTROLS
TEMPORARY EROSION AND SEDIMENT CONTROLS WILL CONSIST OF SILT FENCE AND ROCK BERMS ON THE DOWN-GRADIENT PERIMETER OF THE SITE, PRESERVATION OF NATURAL VEGETATION WHERE AVAILABLE AND RECURRING CLEAN UP OF MUD/SOIL TRACKED ONTO ROADWAY.

PERMANENT CONTROLS MAY CONSIST OF ROCK BERMS, SWALES, AND RE-VEGATATION. PERMANENT WARM SEASON VEGETATION WILL SERVE AS FINAL STABILIZATION AND WILL REDUCE SURFACE EROSION ON AREAS NOT COVERED BY ASPHALT, CONCRETE.

FOR SPECIFIC LOCATION AND SELECTION OF TEMPORARY AND PERMANENT CONTROLS REFER TO EROSION AND SEDIMENTATION CONTROL PLAN WITHIN CONSTRUCTION DRAWING PLAN SET.

TEMPORARY STABILIZATION
STABILIZATION MEASURES WILL BE INITIATED IN PORTIONS OF THE PROJECT SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED FOR 14 DAYS, BUT IN NO CIRCUMSTANCES MORE THAN 21 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE PROJECT SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

FINAL STABILIZATION
FINAL STABILIZATION OF SITE WILL CONSIST OF ESTABLISHMENT OF PERMANENT WARM SEASON VEGETATION ON PORTIONS OF THE SITE NOT COVERED BY CONCRETE, OR ASPHALT. ESTABLISHMENT OF PERMANENT VEGETATION SUITABLE FOR TPDES GENERAL PERMIT COMPLIANCE MUST MEASURE 70% AERIAL COVERAGE (COMPARED TO BACKGROUND NATIVE VEGETATION AERIAL COVERAGE PERCENTAGE) WITH NO LARGE BARE AREAS. CONTRACTORS MUST MEET VEGETATIVE REQUIREMENT IDENTIFIED BY THE ENGINEER WITHIN THE CONTRACT SPECIFICATION, OR THE HIGHEST REQUIREMENT.

SPOIL/FILL MANAGEMENT
ALL SOIL STOCKPILE, EXCAVATION SPOIL MATERIAL, AND ON-SITE SPOIL DISPOSAL AREAS SHALL BE MANAGED BY THE CONTRACTOR IN A MANNER THAT WILL MINIMIZE OR ATTEMPT TO ELIMINATE THE AMOUNT OF SEDIMENT THAT MAY MAY ENTER RECEIVING WATERS AND SHALL NOT BE LOCATED IN ANY WETLAND, FLOODPLAIN, STREAMBED, DITCH, OR OTHER SIMILAR WATER FEATURE OR CONVEYANCE.

OFF-SITE VEHICLE TRACKING
OFF-SITE VEHICLE TRACKING OF SOIL BY VEHICLES AND EQUIPMENT SHALL BE MINIMIZED AND CONTROLLED BY THE CONTRACTOR. SOIL SHALL BE REMOVED FROM SITE ROADWAYS, ENTRANCE, AND ACCESS ROADS AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING RECEIVING WATERS.

DUST CONTROL
DUST WILL BE CONTROLLED BY PERIODIC WETTING WITH WATER TRUCKS DURING DRY PERIODS.

DEWATERING AND NON-STORMWATER DISCHARGES
ANY NON-STORMWATER DISCHARGES FROM THE CONSTRUCTION SITE WILL BE CONTROLLED AND MANAGED BY THE CONTRACTOR IN COMPLIANCE WITH ALL TCEQ AND LOCAL WATER QUALITY DISCHARGE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO 30 TAC 307, SURFACE WATER QUALITY STANDARDS FOR THE STATE OF TEXAS.

THE FOLLOWING NON-STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES ARE ACCEPTABLE:

1. DISCHARGES FROM FIRE FIGHTING ACTIVITIES
2. FIRE HYDRANT FLUSHINGS.
3. VEHICLE, EXTERNAL BUILDING, AND PAVEMENT WASH WATER WHERE DETERGENTS AND SOAPS ARE NOT USED AND WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS SPILLED MATERIALS HAVE BEEN REMOVED; AND IF LOCAL, STATE, OR FEDERAL REGULATIONS ARE APPLICABLE, THE MATERIALS ARE REMOVED ACCORDING TO THOSE REGULATIONS), AND WHERE THE PURPOSE IS TO REMOVE MUD, DIRT, AND DUST.
4. WATER USED TO CONTROL DUST.
5. POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS.
6. AIR CONDITIONING CONDENSATE.
7. UNCONTAMINATED GROUND WATER OR SPRING WATER, INCLUDING FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH INDUSTRIAL MATERIALS SUCH AS SOLVENTS OR OTHER POLLUTANTS.

NON-STORM WATER DISCHARGES WILL, AT A MINIMUM, FLOW THROUGH A SILT FENCE, OR OTHER SUITABLE STRUCTURAL CONTROLS, AND NATURAL VEGETATION (IF AVAILABLE) PRIOR TO LEAVING THE SITE, AS NECESSARY TO MEET COMPLIANCE REQUIREMENTS WITH ALL STATE AND LOCAL WATER QUALITY DISCHARGE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO 30 TAC 307 OR 26 TWC 121, SURFACE WATER QUALITY STANDARDS AND WATER QUALITY CONTROL FRO THE STATE OF TEXAS RESPECTIVELY.

INSPECTION AND MAINTENANCE PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO INSPECT AND MAINTAIN EROSION AND SEDIMENT CONTROLS ON THE CONSTRUCTION SITE.

INSPECTION
ALL CONTROLS WILL BE INSPECTED BY THE CONTRACTOR AT LEAST ONCE PER WEEK ON A SPECIFIC DAY OF THE WEEK SELECTED BY THE CONTRACTOR AT BEGINNING OF PROJECT. (I.E. EACH MONDAY).

AN INSPECTION AND MAINTENANCE REPORT (SEE COPY OF 1 IN SWPPP) WILL BE PERFORMED AND DOCUMENTED DURING EACH WEEKLY INSPECTION. EACH INSPECTION REPORT WILL NOTE ANY EROSION AND SEDIMENTATION CONTROL ITEMS IN NEED OF REPAIR SUCH ASS: DETACHED SILT FENCE/ROCK BERMS, AND SEDIMENT BUILD UP DEPTH CAPTURED BY CONTROLS, ETCETERA.

WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE NOR ANY ITEMS REQUIRING MAINTENANCE, THE REPORT MUST CONTAIN A CERTIFICATION BY THE CONTRACTORS' CERTIFYING EXECUTIVE OFFICER THAT THIS FACILITY OR SITE IS IN COMPLIANCE WITH THE SWPPP AND THE TPDES GENERAL PERMIT (SEE RECORDS SECTION ABOVE). IF THE INSPECTION REPORTS IDENTIFY ITEMS OF NON-COMPLIANCE OR ITEMS THAT REQUIRE MAINTENANCE THEN NO NONE IS REQUIRED TO SIGN OR CERTIFY THE INSPECTION REPORTS.

DIVERSION DIKES, BERMS, OR SWALES WILL BE INSPECTED AND ANY BREACHES OR AREAS WHERE SEDIMENT HAS ESCAPED THE SITE WILL BE NOTED AS WELL.

REPORTS WILL BE ADDRESS CONTROLS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION AND LOCATIONS WHERE ADDITIONAL MEASURES ARE REQUIRED.

WHEN A CONTROL FAILS TO OPERATE AS DESIGNED, PROVES INADEQUATE FOR A PARTICULAR LOCATION, WHERE ADDITIONAL MEASURES ARE REQUIRED, OR A CONTROL BECOMES DAMAGED TO ESSENTIALLY CAUSE MAJOR REPAIR OR REINSTALLATION, THE CONTRACTOR WILL NOTIFY THE ENGINEER AND THE OWNER IMMEDIATELY.

SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT.
QUALIFICATIONS OF THE INSPECTOR
THE CONTRACTOR WILL SELECT, AND TRAIN AS NECESSARY, DESIGNATED PERSONNEL RESPONSIBLE FOR THE INSPECTION, REPAIR, SEDIMENT REMOVAL, AND ANY OTHER RELATED MAINTENANCE REQUIRED FOR KEEPING EROSION AND SEDIMENT CONTROLS IN GOOD WORKING ORDER. THE INSPECTION PERSONNEL MUST BE FAMILIAR WITH SWPPP. THE CONTRACTOR SHALL COMPLY WITH THE INSPECTION REQUIREMENTS SPECIFIED IN THE TPDES PERMIT IN SECTION VI

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE CITY OF CEDAR PARK ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF CEDAR PARK ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL BY CITY OF CEDAR PARK ENVIRONMENTAL PLAN REVIEWERS AS WELL AS CITY OF CEDAR PARK ENVIRONMENTAL INSPECTORS.
3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND CITY INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK.
5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY INSPECTOR AS APPROPRIATE. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE CITY OR ENGINEER INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
6. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS; ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY OF LEANDER INSPECTOR FOR FURTHER INVESTIGATION.
9. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
   A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES. THE TOPSOIL SHALL BE COMPOSED OF 4 PARTS OF SOIL MIXED WITH 1 PART COMPOST, BY VOLUME. THE COMPOST SHALL MEET THE DEFINITION OF COMPOST AS DEFINED BY TXDOT SPECIFICATION ITEM 161. THE SOIL SHALL BE LOCALLY AVAILABLE NATIVE SOIL THAT MEETS THE FOLLOWING SPECIFICATIONS:
      - SHALL BE FREE OF TRASH, WEEDS, DELETERIOUS MATERIALS, ROCKS, AND DEBRIS.
      - 100% SHALL PASS THROUGH A 1.5-INCH (38-MM) SCREEN.
      - SOIL TO BE A LOAMY MATERIAL THAT MEETS THE REQUIREMENTS OF THE TABLE BELOW IN ACCORDANCE WITH THE USDA TEXTURAL TRIANGLE. SOIL KNOWN LOCALLY AS "RED DEATH" IS NOT AN ALLOWABLE SOIL. TEXTURAL COMPOSITION SHALL MEET THE FOLLOWING CRITERIA:

TEXTURAL CLASS	MINIMUM	MAXIMUM
CLAY	5%	50%
SILT	10%	50%
SAND	15%	67%

      - AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE SOIL TEXTURE CLASS REQUIRED ABOVE BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.
      - SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL-BLENDED MATERIAL.

      TOPSOIL SALVAGED FROM THE EXISTING SITE MAY OFTEN BE USED, BUT IT SHOULD MEET THE SAME STANDARDS AS SET FORTH IN THESE STANDARDS.

   THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

TEMPORARY VEGETATIVE STABILIZATION:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH COOL SEASON COVER CROPS (WHEAT AT 0.5 POUNDS PER 1000 SF, OATS AT 0.5 POUNDS PER 1000 SF, CEREAL RYE GRAIN AT 0.5 POUNDS PER 1000 SF) WITH A TOTAL RATE OF 1.5 POUNDS PER 1000 SF. COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH BUFFALO AT A RATE OF 1 POUNDS PER 1000 SF.
   A. FERTILIZER SHALL BE WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1/2 POUND PER 1000 SF.
   B. HYDROMULCH SHALL COMPLY WITH TABLE1, BELOW.
   C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1.5 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
   D. WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL.

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	LONGEVITY
100% OR ANY BLEND OF WOOD, CELLULOSE, STRAW, AND/OR COTTON PLANT MATERIAL (EXCEPT NO MULCH SHALL EXCEED 30% PAPER)	70% OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL FIBERS	0-3 MONTH	MODERATE SLOPES; FROM FLAT TO 3:1	MODERATE SLOPES; FROM FLAT TO 3:1

PERMANENT VEGETATIVE STABILIZATION:
1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (½) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH 2. BELOW.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH BUFFALO AT A RATE OF 1 POUND PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINATION. BUFFALO GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL.
   A. FERTILIZER SHALL BE A WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF ½ POUND PER 1000 SF.
   B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.
   C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT DAILY INTERVALS (MINIMUM) DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF ½ INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK
   D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1.5 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.

	DESCRIPTION	LONGEVITY
BONDED FIBER MATRIX (BFM)	80% ORGANIC DEFIBRATED FIBERS 10% TACKIFER	6 MONTHS
FIBER REINFORCED MATRIX (FRM)	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBERS OR LESS 10% TACKIFIER	UP TO 12 MONTHS

11. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE CITY INSPECTOR AT LEAST 48 HOURS PRIOR WITH THE LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

EROSION & SEDIMENTATION CONTROL NOTES

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS

NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
1			
2			
3			
4			
5			
6			

STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED
PROFESSIONAL ENGINEER
4-1-24

EXISTING DRAINAGE AREA MAP

PROPOSED DRAINAGE AREA MAP

SCALE: 1"=100'

0 100 200

DRAINAGE CALCULATIONS (EXISTING)										
DESIGN POINT	DRAINAGE AREA	ACRES	Tc (MIN)	Lag Time	Curve Number	Impervious Cover (%)	Q (2YR) (CFS)	Q (10YR) (CFS)	Q (25YR) (CFS)	Q (100YR) (CFS)
A	EN 1	1.73	5.0	3.0	84.0	0.0%	6.8	12.2	15.9	22.2
A	EN 2	0.69	5.0	3.0	84.0	11.6%	2.9	5	6.4	8.9
A	EN 3	0.21	5.0	3.0	84.0	0.0%	0.8	1.5	1.9	2.7
A TOTAL		2.63					10.5	18.7	24.3	33.8
B	EE 1	1.34	5.0	3.0	84.0	5.5%	5.4	9.6	12.4	17.3
B TOTAL		1.34					5.4	9.6	12.4	17.3
C	ES 1	2.89	5.0	3.0	84.0	1.2%	0	0	0	0
C	18-SD-006*	6.78	5.0	3.0			11.5	20.5	26.6	37.1
C TOTAL		9.67					11.5	20.5	26.6	37.1
D	CTRMA	0.55	5.0	3.0		27.8%	2.4	4.1	5.2	7.2
D TOTAL	INCLUDES C	10.22	5.0	3.0			13.3	20.5	25.5	34.1
E	WV DR	2.51	5.0	3.0		80.0%	7.8	13.7	17.7	24.5
E TOTAL	INCLUDES C & D	12.73	10.0	6.0	84.0		32.6	54.7	69.8	95.7

DRAINAGE CALCULATIONS (PROPOSED)										
DESIGN POINT	DRAINAGE AREA	ACRES	Tc (MIN)	Lag Time	Curve Number	Impervious Cover (%)	Q (2YR) (CFS)	Q (10YR) (CFS)	Q (25YR) (CFS)	Q (100YR) (CFS)
A	PN 1	2.34	5.0	3.0	84.0	65.0%	11.8	18.7	23.4	31.5
	POND N						8.3	13.8	17.7	24.5
	WS Elevation						990.8	991.2	991.4	991.7
A	PN 2	0.58	5.0	3.0	84.0	13.8%	2.4	4.2	5.4	7.5
A	PN 3	0.07	5.0	3.0	84.0	30.0%	0.3	0.5	0.7	0.9
A TOTAL		2.99					10.4	17.6	22.7	31.6
B	PE 1	2.47	5.0	3.0	84.0	75.0%	12.9	20	25	33.5
	POND S						4.3	7.5	9.9	14.2
	WS Elevation						987.5	988.1	988.4	989.0
B	PE1 Bypass	0.42	5.0	3.0	84.0	17.6%	1.8	3.1	4	5.5
B TOTAL		2.89					5.1	9.1	12	17.2
C	PS 1	0.99	5.0	3.0	84.0	1.4%	11.5	20.5	26.6	37.1
C	18-SD-006*	6.78					20.5	20.5	20.5	20.5
C TOTAL		7.77					11.5	20.5	26.6	37.1
D	CTRMA	0.55	5.0	3.0	84.0	27.8%	2.4	4.1	5.2	7.2
D TOTAL	INCLUDES C	8.32	5.0	3.0			7.3	12.8	16.7	23.6
E	WV DR	2.51	5.0			80.0%	13.3	20.5	25.5	34.1
E TOTAL	INCLUDES C & D	10.83	5.0	3.0	84.0		31.9	53.4	68.4	94.2

LEGEND

- PROPERTY LINE
- 000 PROP. MAJOR CONTOUR
- 000 PROP. MINOR CONTOUR
- 000 EX. MAJOR CONTOUR
- 000 EX. MINOR CONTOUR
- PROPOSED DRAINAGE AREA
- EXISTING DRAINAGE AREA
- PE 1 DRAINAGE AREA DESIGNATION
- FLOW ARROW

NOTES:
1. IC SHOWN INCLUDES POTENTIAL FUTURE DEVELOPMENT

GOODE FAITH ENGINEERING
STATE OF TEXAS
EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

DRAINAGE AREA PLAN

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS					
NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE		
1					
2					
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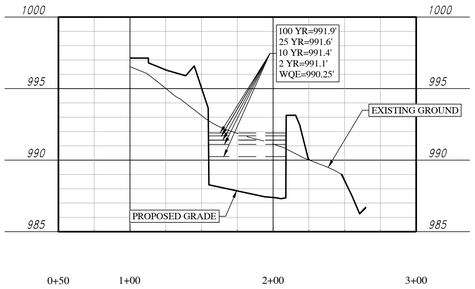
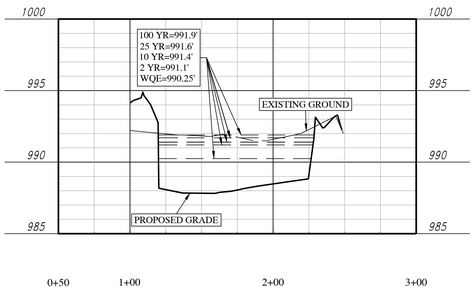
4					
5					
6					

STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED
PROFESSIONAL ENGINEER
4-1-24

NORTH POND SECTION 'A'

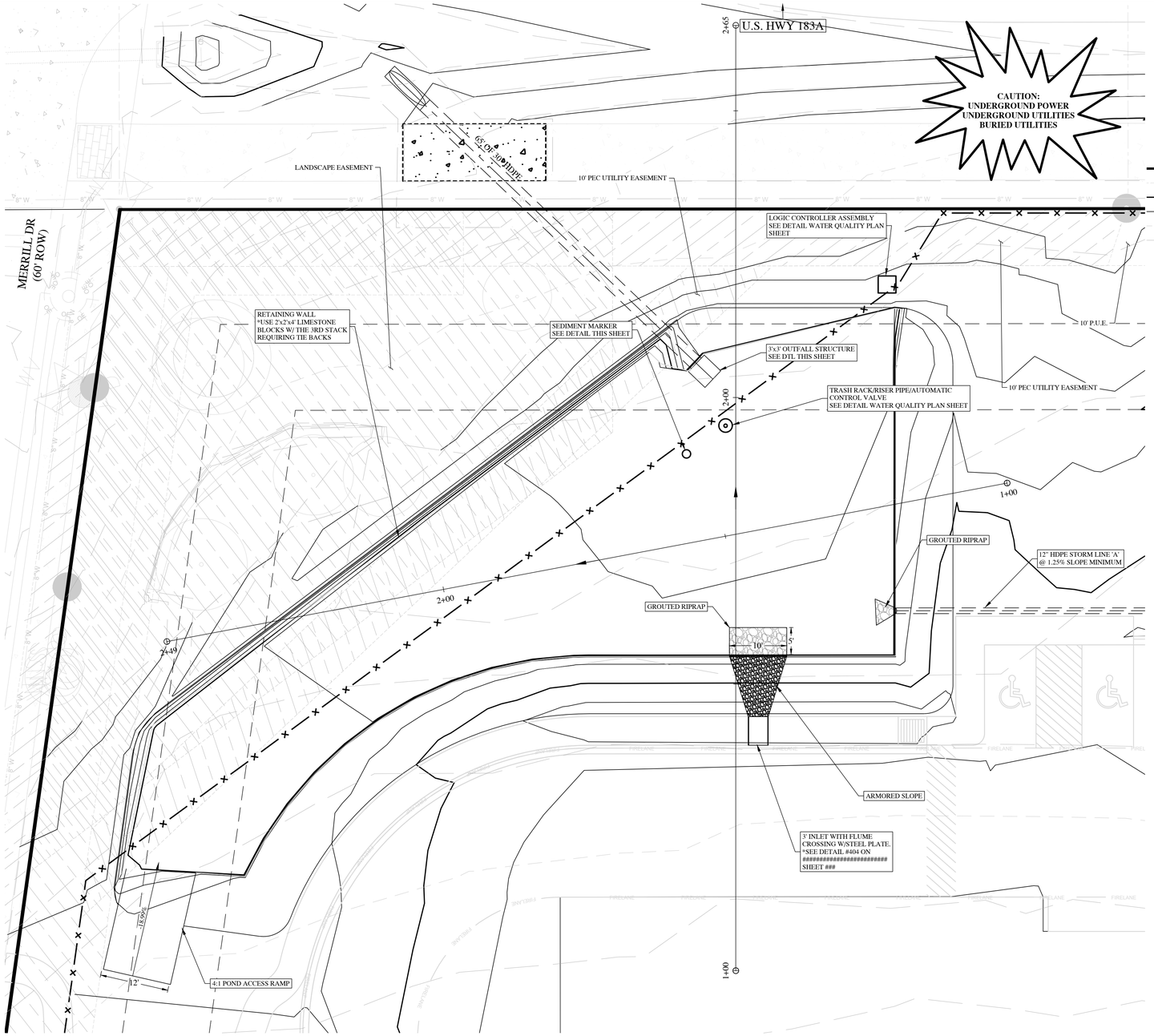


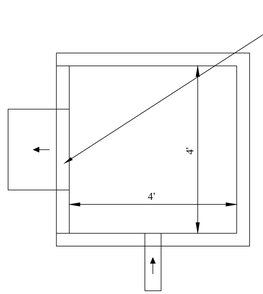
NORTH POND SECTION 'B'



	Pond North Elevation-Area-Storage Table					
	Elevation delta	Depth (ft)	Contour Area (sf)	Incremental storage (cf)	Cumulative Storage (cf)	Cumulative Storage (ac-ft)
	0.00	987.50	0.0	0.0	0.0	0.0
	0.25	987.75	75.0	9.4	9.4	0.000215
	0.25	988.00	429.0	63.0	72.4	0.001662
	0.25	988.25	1095.0	190.5	262.9	0.006035
	0.25	988.50	2137.0	404.0	666.9	0.015309
	0.25	988.75	3118.0	656.9	1323.8	0.030389
	0.25	989.00	3530.0	831.0	2154.8	0.049466
	0.25	989.25	3883.0	926.6	3081.4	0.070739
	0.25	989.50	4191.0	1009.3	4090.6	0.093908
	0.25	989.75	4487.0	1084.8	5175.4	0.118810
	0.25	990.00	4795.0	1160.3	6335.6	0.145446
WQV = 7222 CF	0.25	990.25	5162.0	1244.6	7580.3	0.174019
	0.25	990.50	5485.0	1330.9	8911.1	0.204571
	0.25	990.75	5519.0	1375.5	10286.6	0.236148
	0.25	991.00	5554.0	1384.1	11670.8	0.267924
	0.25	991.25	5590.0	1393.0	13063.8	0.299902
	0.25	991.50	5626.0	1402.0	14465.8	0.332088
	0.25	991.75	5663.0	1411.1	15876.9	0.364483
	0.25	992.00	5701.0	1420.5	17297.4	0.397093
	0.25	992.25	5750.0	1431.4	18728.8	0.429953
	0.25	992.50	5814.0	1445.5	20174.3	0.463137
	0.25	992.75	5897.0	1463.9	21638.1	0.496743
	0.25	993.00	5997.0	1486.8	23124.9	0.530874

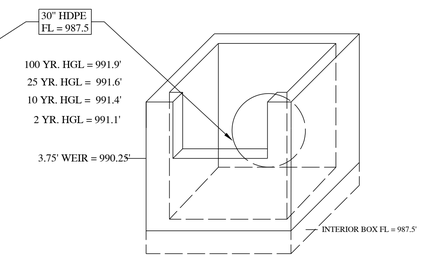
Pond North Detention Storage and Discharge Calculations				
Event	2-Year	10-Year	25-Year	100-Year
Storage (ACRE-FT)	0.3	0.3	0.3	0.4
Elevation (FT)	991.1	991.4	991.6	991.9
Weir Outflow (CFS)	8.4	14	18	25
* WEIR COEFFICIENT=3.05				





POND OUTFALL TOP VIEW

N.T.S.



POND OUTFALL ISO VIEW

N.T.S.

NOTE: MAINTENANCE OF THE DRAINAGE AND DETENTION FACILITIES ARE THE RESPONSIBILITY OF THE PROPERTY OWNER

GOODE FAITH ENGINEERING
STATE OF TEXAS
EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

POND PLAN (NORTH)

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS

NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
1			
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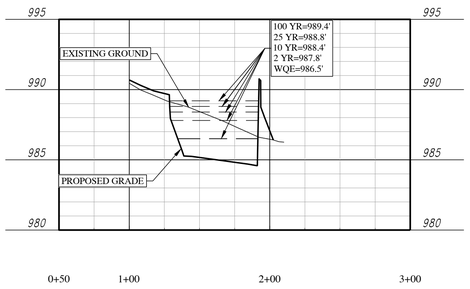
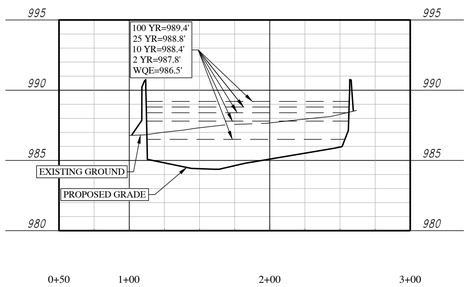
3			
4			
5			
6			

STATE OF TEXAS
ANTHONY H. COOK
97263
LICENSED
PROFESSIONAL ENGINEER
4-1-24

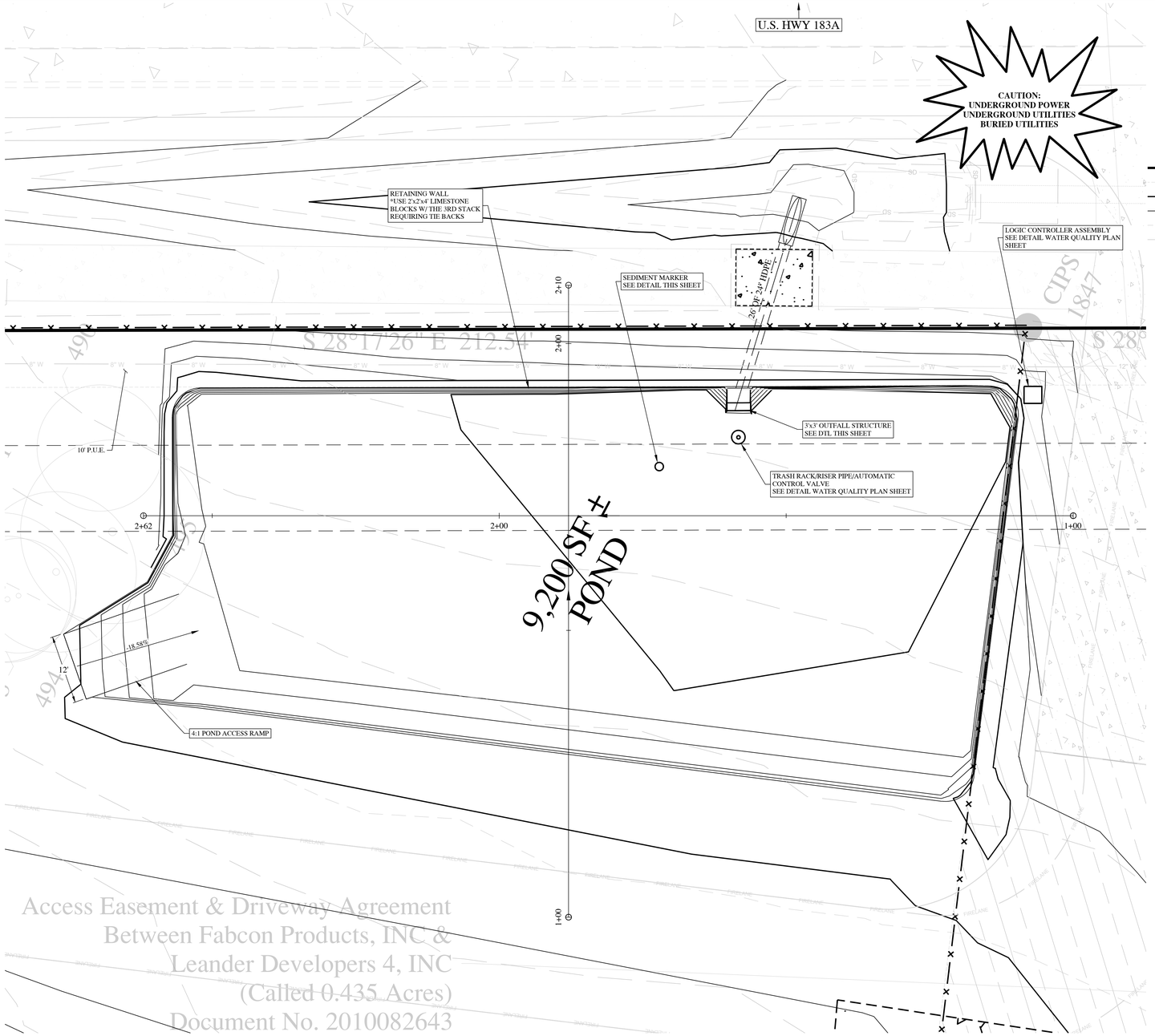
SOUTH POND SECTION 'A'

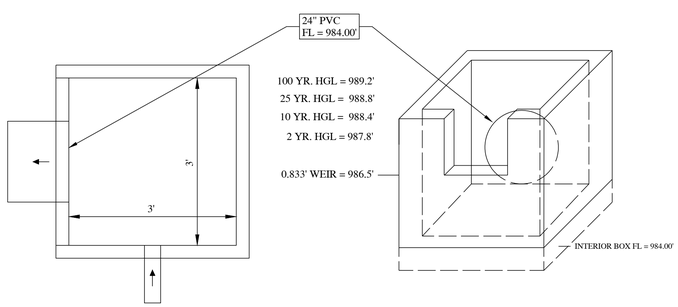


SOUTH POND SECTION 'B'



	Pond South Elevation-Area-Storage Table					
	Elevation delta	992.25	Contour Area (sf)	Incremental storage (cf)	Cumulative Storage (cf)	Cumulative Storage (ac-ft)
	0	984.00	0.0	0.0	0.0	0.0
	0.25	984.25	307.0	38.4	38.4	0.000881
	0.25	984.50	993.0	162.5	200.9	0.004611
	0.25	984.75	2046.0	379.9	580.8	0.013332
	0.25	985.00	3535.0	697.6	1278.4	0.029347
	0.25	985.25	4974.0	1063.6	2342.0	0.053765
	0.25	985.50	5923.0	1362.1	3704.1	0.085035
	0.25	985.75	6795.0	1589.8	5293.9	0.121531
	0.25	986.00	7630.0	1803.1	7097.0	0.162925
	0.25	986.25	7961.0	1948.9	9045.9	0.207665
WQV=10547 CF	0.25	986.50	8156.0	2014.6	11060.5	0.253914
	0.25	986.75	8348.0	2063.0	13123.5	0.301274
	0.25	987.00	8521.0	2108.6	15232.1	0.349681
	0.25	987.25	8704.0	2153.1	17385.3	0.399110
	0.25	987.50	8841.0	2193.1	19578.4	0.449458
	0.25	987.75	8994.0	2229.4	21807.8	0.500637
	0.25	988.00	9120.0	2264.3	24072.0	0.552617
	0.25	988.25	9174.0	2286.8	26358.8	0.605114
	0.25	988.50	9223.0	2299.6	28658.4	0.657906
	0.25	988.75	9271.0	2311.8	30970.1	0.710976
	0.25	989.00	9317.0	2323.5	33293.6	0.764316
	0.25	989.25	9361.0	2334.8	35628.4	0.817915
	0.25	989.50	9403.0	2345.5	37973.9	0.871760
	0.25	989.75	10075.0	2434.8	40408.6	0.927654
	0.25	990.00	11384.0	2682.4	43091.0	0.989233
	0.25	990.25	12447.0	2978.9	46069.9	1.057619
	0.25	990.25	12447.0	3111.8	49181.6	1.129055





POND OUTFALL TOP VIEW
N.T.S.

POND OUTFALL ISO VIEW
N.T.S.

Pond South Detention Storage and Discharge Calculations				
Event	2-Year	10-Year	25-Year	100-Year
Storage (ACRE-FT)	0.5	0.6	0.7	0.9
Elevation (FT)	987.8	988.4	988.8	898.4
Weir Outflow (CFS)	3.7	6.5	8.6	12.5
* WEIR COEFFICIENT=3.05				

NOTE: MAINTENANCE OF THE DRAINAGE AND DETENTION FACILITIES ARE THE RESPONSIBILITY OF THE PROPERTY OWNER

SCALE: 1"=10'
0 10 20

LEGEND
- PROPERTY LINE
- EASEMENT LINE
- 000 PROP. MAJOR CONTOUR
- 000 PROP. MINOR CONTOUR
- 000 EX. MAJOR CONTOUR
- 000 EX. MINOR CONTOUR
- TREE

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021
CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

POND PLAN (SOUTH)

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS

NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
1			
2			
3			
4			
5			
6			

STATE OF TEXAS
ANTHONY H. GOODE
97283
LICENSED
PROFESSIONAL ENGINEER
4-1-24

TCEQ-0592A (REV. JULY 15, 2015) **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**
CONTRIBUTING ZONE PLAN
GENERAL CONSTRUCTION NOTES

EDWARDS AQUIFER PROTECTION PROGRAM CONSTRUCTION NOTES - LEGAL DISCLAIMER

THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION. FURTHER ACTIONS MAY BE REQUIRED TO ACHIEVE COMPLIANCE WITH TCEQ REGULATIONS FOUND IN TITLE 30, TEXAS ADMINISTRATIVE CODE (TAC), CHAPTERS 213 AND 217, AS WELL AS LOCAL ORDINANCES AND REGULATIONS PROVIDING FOR THE PROTECTION OF WATER QUALITY. ADDITIONALLY, NOTHING CONTAINED IN THE FOLLOWING/LISTED "CONSTRUCTION NOTES" RESTRICTS THE POWERS OF THE ED, THE COMMISSION OR ANY OTHER GOVERNMENTAL ENTITY TO PREVENT, CORRECT, OR CURTAIL ACTIVITIES THAT RESULT OR MAY RESULT IN POLLUTION OF THE EDWARDS AQUIFER OR HYDROLOGICALLY CONNECTED SURFACE WATERS. THE HOLDER OF ANY EDWARDS AQUIFER PROTECTION PLAN CONTAINING "CONSTRUCTION NOTES" IS STILL RESPONSIBLE FOR COMPLIANCE WITH TITLE 30, TAC, CHAPTERS 213 OR ANY OTHER APPLICABLE TCEQ REGULATION, AS WELL AS ALL CONDITIONS OF AN EDWARDS AQUIFER PROTECTION PLAN THROUGH ALL PHASES OF PLAN IMPLEMENTATION. FAILURE TO COMPLY WITH ANY CONDITION OF THE ED'S APPROVAL, WHETHER OR NOT IN CONTRADICTION OF ANY "CONSTRUCTION NOTES," IS A VIOLATION OF TCEQ REGULATIONS AND ANY VIOLATION IS SUBJECT TO ADMINISTRATIVE RULES, ORDERS, AND PENALTIES AS PROVIDED UNDER TITLE 30, TAC § 213.10 (RELATING TO ENFORCEMENT). SUCH VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AND INJUNCTION. THE FOLLOWING/LISTED "CONSTRUCTION NOTES" IN NO WAY REPRESENT AN APPROVED EXCEPTION BY THE ED TO ANY PART OF TITLE 30 TAC, CHAPTERS 213 AND 217, OR ANY OTHER TCEQ APPLICABLE REGULATION

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

AUSTIN REGIONAL OFFICE
12100 PARK 35 CIRCLE, BUILDING A
AUSTIN, TEXAS 78753-1808
PHONE (512) 339-2929
FAX (512) 339-3795SAN ANTONIO REGIONAL OFFICE
14250 JUDSON ROAD
SAN ANTONIO, TEXAS 78233-4480
PHONE (210) 490-3096
FAX (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.
12.

OVERALL

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009 Project Name: **Mac Haik**
Date Prepared: **3/4/2024**

Additional information is provided for cells with a red triangle in the upper right corner. Place the cu
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 equa

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

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

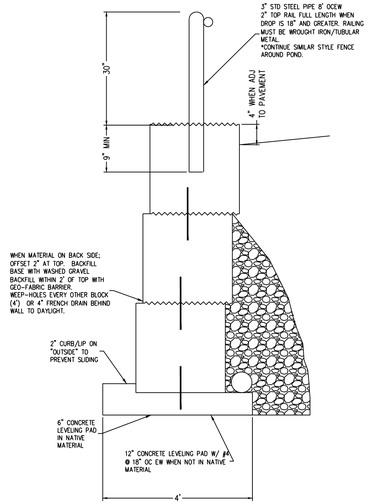
where:
$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed de
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

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

County =	Williamson	
Total project area included in plan * =	5.73	acres
Predevelopment impervious area within the limits of the plan * =	0.12	acres
Total post-development impervious area within the limits of the plan* =	3.18	acres
Total post-development impervious cover fraction * =	0.56	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	2663	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



NORTH POND

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

Drainage Basin/Outfall Area No. =	1	NORTH POND
Total drainage basin/outfall area =	2.34	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	1.39	acres
Post-development impervious fraction within drainage basin/outfall area =	0.59	
$L_{M\ THIS\ BASIN}$ =	1210	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	Batch Pond	
Removal efficiency =	91	percent

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:
A_C = Total On-Site drainage area in the BMP catchment ar
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 p

A_C =	2.18	acres
A_I =	1.32	acres
A_P =	0.86	acres
L_R =	1347	lbs

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

Desired $L_{M\ THIS\ BASIN}$ =	1210	lbs.
F =	0.90	

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

Rainfall Depth =	1.70	inches
Post Development Runoff Coefficient =	0.43	
On-site Water Quality Volume =	5727	cubic feet
	Calculations from RG-348	Pages 3-36 to 3-37
Off-site area draining to BMP =	0.16	acres
Off-site Impervious cover draining to BMP =	0.06	acres
Impervious fraction of off-site area =	0.38	
Off-site Runoff Coefficient =	0.29	
Off-site Water Quality Volume =	291	cubic feet
Storage for Sediment =	1204	
Total Capture Volume (required water quality volume(s) x 1.20) =	7222	cubic feet

SOUTH POND

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

Drainage Basin/Outfall Area No. =	2	SOUTH POND
Total drainage basin/outfall area =	2.47	acres
Predevelopment impervious area within drainage basin/outfall area =	0.06	acres
Post-development impervious area within drainage basin/outfall area =	1.85	acres
Post-development impervious fraction within drainage basin/outfall area =	0.75	
$L_{M\ THIS\ BASIN}$ =	1555	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	Batch Pond	
Removal efficiency =	91	percent

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:
A_C = Total On-Site drainage area in the BMP catchment ar
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 p

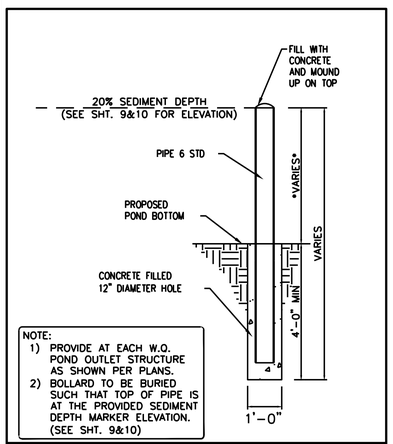
A_C =	2.14	acres
A_I =	1.79	acres
A_P =	0.35	acres
L_R =	1809	lbs

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

Desired $L_{M\ THIS\ BASIN}$ =	1555	lbs.
F =	0.86	

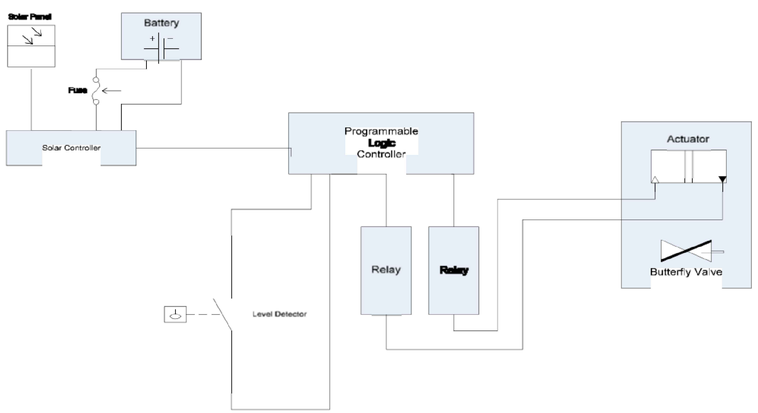
6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG

Rainfall Depth =	1.38	inches
Post Development Runoff Coefficient =	0.68	
On-site Water Quality Volume =	7259	cubic feet
	Calculations from RG-348	Pages 3-36 to 3-37
Off-site area draining to BMP =	0.33	acres
Off-site Impervious cover draining to BMP =	0.06	acres
Impervious fraction of off-site area =	0.19	
Off-site Runoff Coefficient =	0.19	
Off-site Water Quality Volume =	322	cubic feet
Storage for Sediment =	1516	
Total Capture Volume (required water quality volume(s) x 1.20) =	9097	cubic feet

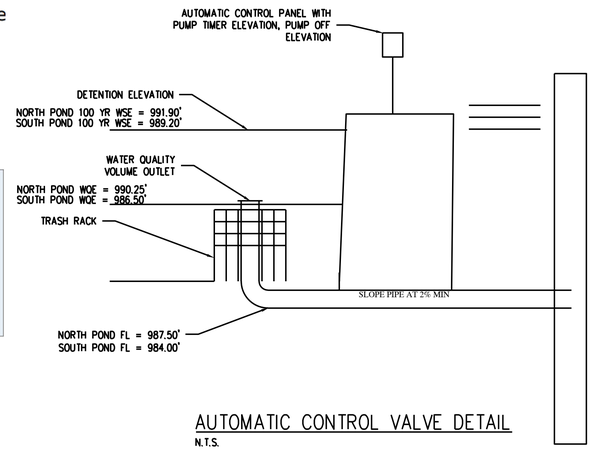


0 | BOLLARD –SEDIMENT MARKER DETAIL
11 | SCALE: N.T.S.

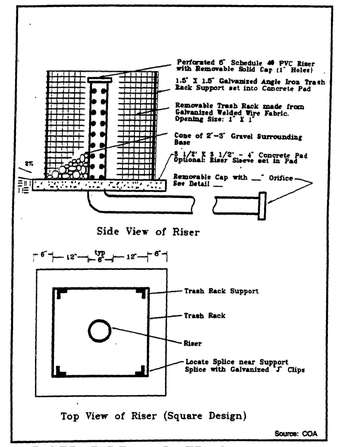
- ***Circuit*** – Provide a block diagram of site specific controller circuit, such as the illustrated example found below;



AUTOMATIC CONTROL VALVE CIRCUIT DETAIL
N.T.S.



AUTOMATIC CONTROL VALVE DETAIL
N.T.S.



RISER PIPE AND TRASH RACK DETAIL
N.T.S.

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021
CIVIL ENGINEERING AND PLANNING (972) 822 - 1682 TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

WATER QUALITY PLAN

DATE 04/01/2024

PROJECT NO. 23-008.0

DESIGNED BY BLB

CHECKED BY AHG

REVISIONS

NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
1			
2			
3			
4			
5			
6			

STATE OF TEXAS ANTHONY H. GOODE 97263 LICENSED PROFESSIONAL ENGINEER 4-1-24

GOODE FAITH ENGINEERING
STATE OF TEXAS
EST. 2021

CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

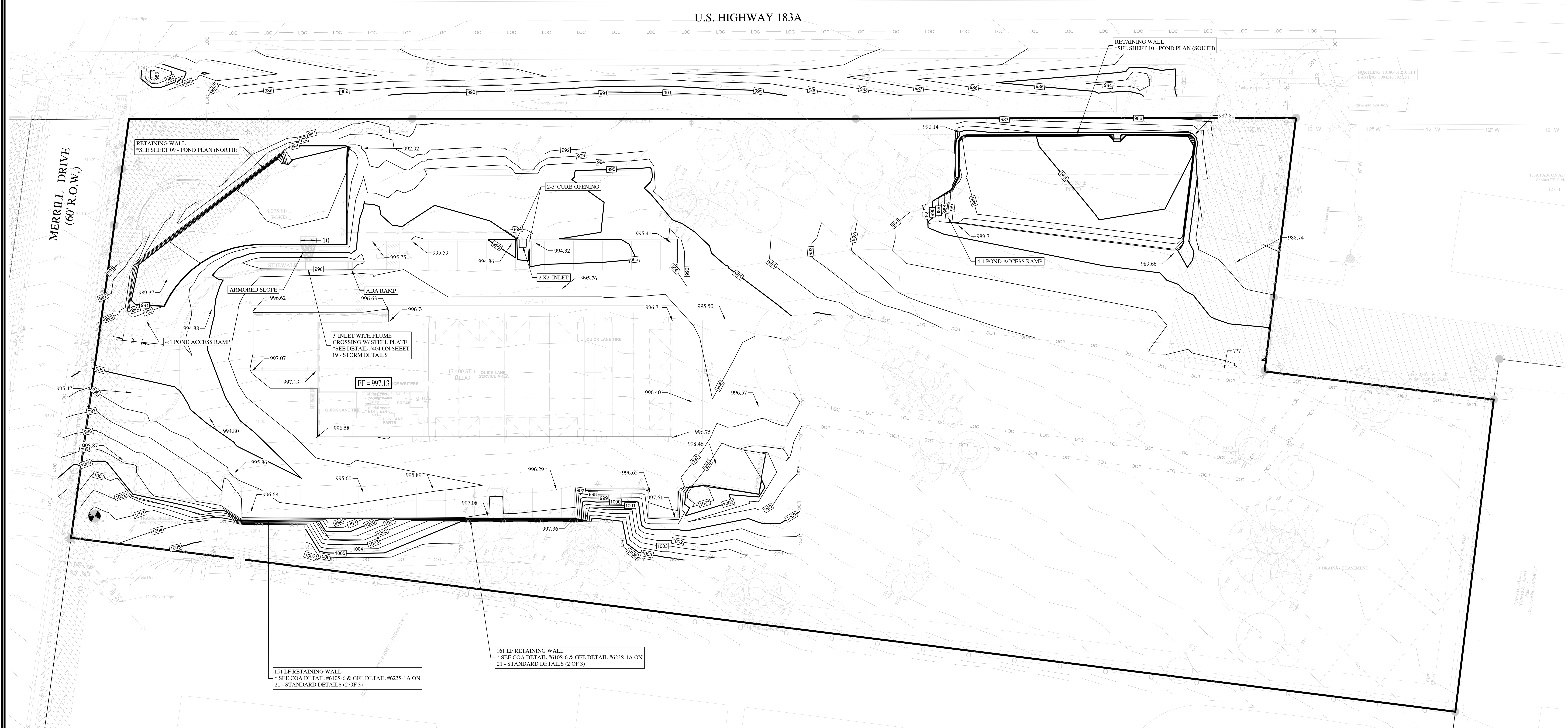
GRADING PLAN

SCALE: 1"=30'
0 30 60

CAUTION:
UNDERGROUND POWER
UNDERGROUND UTILITIES
BURIED UTILITIES

LEGEND

	PROPERTY LINE
	EASEMENT LINE
LOC LOC	LIMITS OF CONSTRUCTION
000	PROP. MAJOR CONTOUR
000	PROP. MINOR CONTOUR
000	EX. MAJOR CONTOUR
000	EX. MINOR CONTOUR
	FLOW ARROW
FF = 000.00	FINISHED FLOOR ELEVATION



ALL EXPOSED CONCRETE THAT IS VISIBLE IS REQUIRED TO BE MADE OF STONE OR CLAD IN STONE INCLUDING BUT NOT LIMITED TO LEDGESTONE, FIELDSTONE, CAST STONE, OR OTHER DECORATIVE MATERIALS SUCH AS STAMPED AND TINTED CONCRETE THAT RESEMBLES STONE OR BRICK AS APPROVED BY THE DIRECTOR OF PLANNING. ALL OTHER EXPOSED CONCRETE IS REQUIRED TO BE MADE OF STONE OR CLAD IN STONE AS LISTED ABOVE OR TEXTURED AND TINTED IN EARTHEN COLORS. IN THE EVENT THAT THE DRAINAGE FACILITY IS BELOW GRADE, STRUCTURAL STABILIZATION IS PERMITTED FOR THE FULL PERIMETER AND AND SCREENING REQUIREMENTS LISTED IN ARTICLE VI, SECTION 1 (D) OF THIS ORDINANCE SHALL APPLY.

DATE	04/01/2024
PROJECT NO.	23-008.0
DESIGNED BY	BLB
CHECKED BY	AHG

REVISIONS

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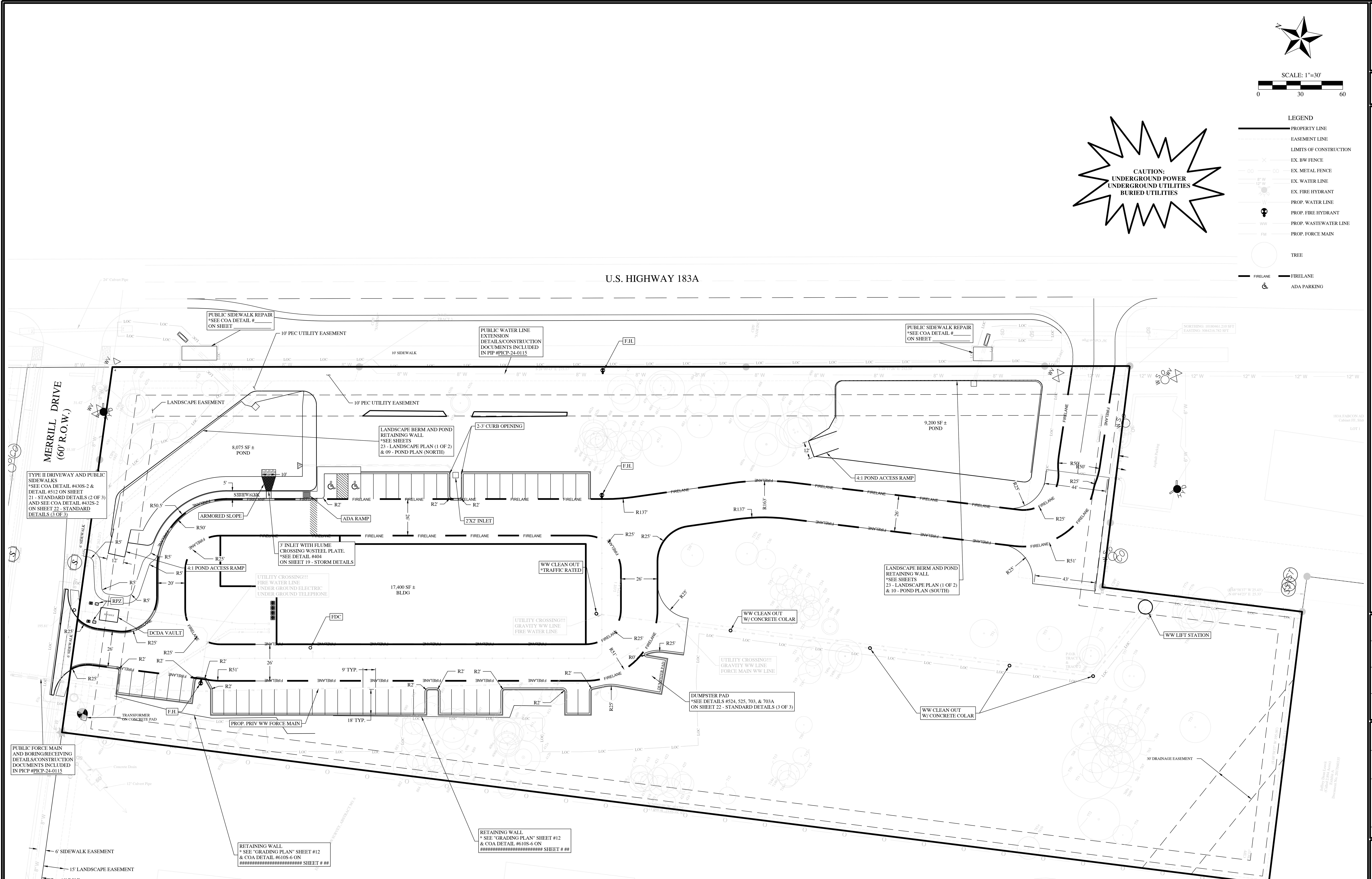
STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED
PROFESSIONAL ENGINEER
4-1-24



NOTES:

1. THE FOLLOWING USES ARE NOT PROPOSED OR PERMITTED: MINI-WAREHOUSE OR SELF-STORAGE FACILITIES, BOAT AND RV STROAGE, MATERIAL SALVAGE UNLESS ENCLOSED WITHIN A BUILDING, SEXUALLY-ORIENTED BUSINESSES, MOTOR VEHICLE SALVAGE.
2. ALL EASEMENT OF RECORD AS INDICATED ON THE MOST RECENT TITLE RUN (DATED: 07/11/2023 & 07/12/2023 BY FIRST AMERICAN TITLE GUARANTY COMPANY) FOR THIS PROPERTY ARE SHOWN ON THIS SITE PLAN.
3. ALL SITE UTILITY LINES ARE PROPOSED TO BE LOCATED UNDERGROUND.
4. EXTERIOR LIGHTING SHALL BE SHIELDED SUCH THAT THE LIGHT SOURCE IS NOT DIRECTLY VISIBLE FROM THE PUBLIC ROW OR ADJACENT RESIDENTIAL DISTRICTS OR USES AT THE PROPERTY LINE. UNSHIELDED " WALL PACK" LIGHTING IS NOT PROPOSED.
5. AL CLAWSON DISPOSAL, INC. SHALL BE THE SOLE PROVIDER OF WASTE HAULING FOR THIS SITE AFTER CONSTRUCTION. AIR CONDITIONING UNITS ARE NOT PROPOSED FORWARD THE FRONT WALL OF THE BUILDING.
6. GARBAGE DUMPSTERS ARE LOCATED NO CLOSER TO A ROADWAY THAN THE FRONT WALL OF THE PRINCIPAL STRUCTURE LOCATED CLOSEST TO THE ROADWAY. GARBAGE DUMPSTERS ARE SCREENED BY A WALL (COMPRISED OF MASONRY COMPATIBLE WITH THE STRUCTURE OR WOODCRETE) AT LEAST AS HIGH AS THE CONTAINER. THE OPEN SIDE TO THE DUMPSTER OR OTHER TRASH RECEPTACLE IS A GATE CONSTRUCTED OF SOLID WOOD OR METAL. THE DUMPSTER IS ORIENTED FOR PICKUP BY A FRONT LOAD GARBAGE TRUCK.
7. FOR 90 GALLON ROLL OUT CONTAINER STORED OUTSIDE, IT IS REQUIRED TO BE ENCLOSED BY PRIVACY FENCE.

GOODE FAITH ENGINEERING
STATE OF TEXAS · EST. 2021

CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

SITE PLAN

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS

NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
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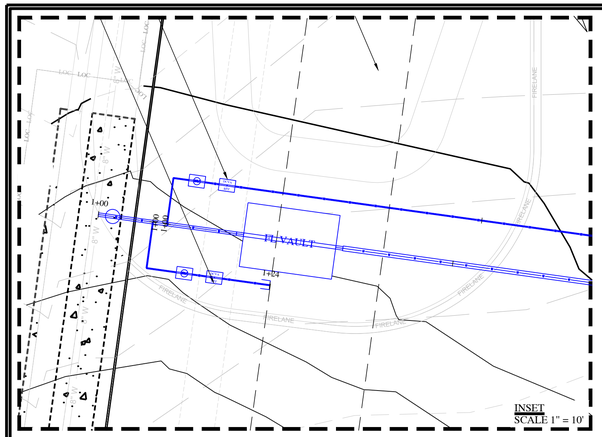
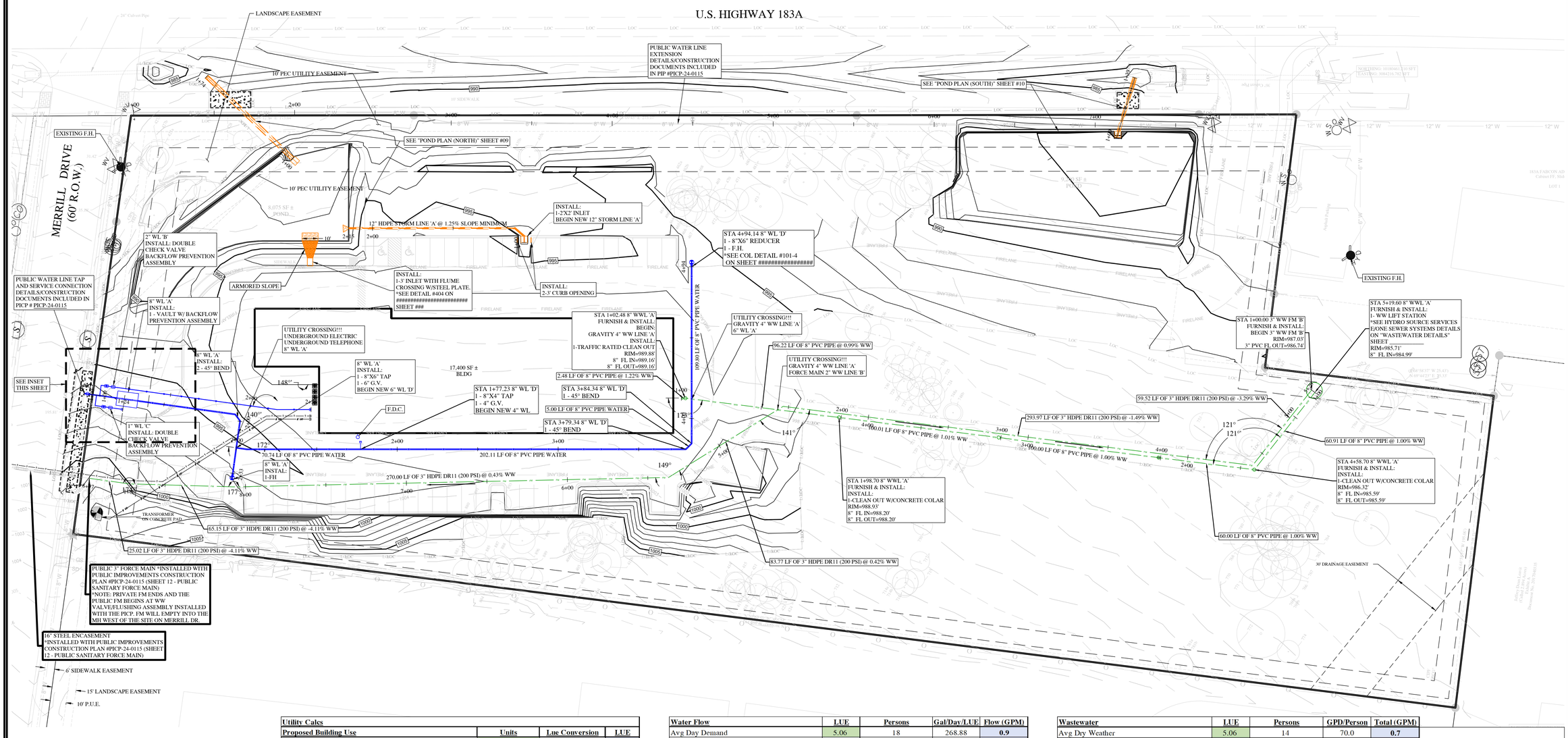
STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED PROFESSIONAL ENGINEER
4-1-24





SCALE: 1"=30'

0 30 60

CAUTION: UNDERGROUND POWER UNDERGROUND UTILITIES BURIED UTILITIES

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF CONSTRUCTION
- FIRELANE
- EX. WATER LINE
- EX. FIRE HYDRANT
- PROP. WATER LINE
- PROP. FIRE HYDRANT
- PROP. WASTEWATER LINE
- PROP. FORCE MAIN
- PROP. STORM LINE
- PROP. U.G. TELEPHONE/FIBER
- PROP. U.G. ELECTRIC

Utility Calcs			
Proposed Building Use	**Units**	**Lue Conversion**	**LUE**
Office (Square Feet of Floor)		1 LUE/3000 SF	0.00
Office Warehouse (Square Feet of Floor)		1 LUE/4000 SF	0.00
Retail; Shopping Center (Square Feet of Floor)		1 LUE/1660 SF	0.00
Restaurant/Cafeteria (Squre Feet of Floor)		1 LUE/200 SF	0.00
Office (Square Feet of Floor)		1 LUE/3000 SF	0.00
Office Warehouse (Square Feet of Floor)	12,470	1 LUE/4000 SF	3.12
Retail; Shopping Center (Square Feet of Floor)	3,230	1 LUE/1660 SF	1.95
	15,700	Total LUEs	5.06

Water Flow	LUE	Persons	Gal/Day/LUE	Flow (GPM)
Avg Day Demand	5.06	18	268.88	**0.9**
Peak Day Demand			635.9	**2.2**
Peak Hour Demand			1194.53	**4.2**
Fire Flow Demand				**1500.0**

*1 LUE = 3.36 Persons

Per Model From K Friese + Associates	
Minimum Pressure =	61 psi (1,132 HGL)
Maximum Pressure =	69 psi (1,150 HGL)
Fire Flow Available =	1,819 gpm at 20 psi residual

Wastewater	LUE	Persons	GPD/Person	Total (GPM)
Avg Dry Weather	5.06	14	70.0	**0.7**
Peak Dry Weather*			280.0	**2.8**
* Peak Flow Factor per City of Austin Formula:	4.00			

	ACRES	GPM
Inflow and Infiltration (I&I) = 750 gal/acre		**0.0**
Peak Wet Weather = Peak Dry Weather + I&I		**2.8**

*1 LUE = 2.8 Persons

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021
CIVIL ENGINEERING AND PLANNING (972) 822 - 1682 TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

UTILITY PLAN

DATE 04/01/2024

PROJECT NO. 23-008.0

DESIGNED BY BLB

CHECKED BY AHG

REVISIONS

NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
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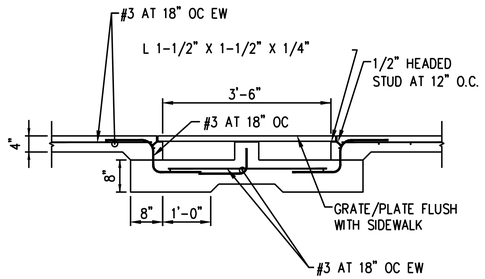
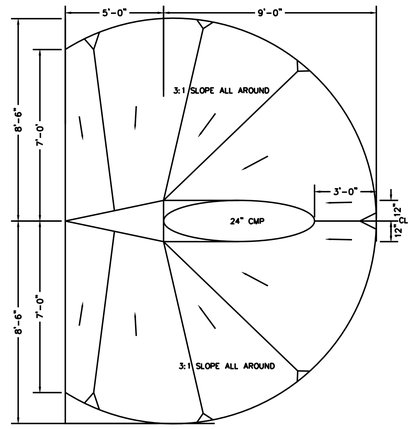
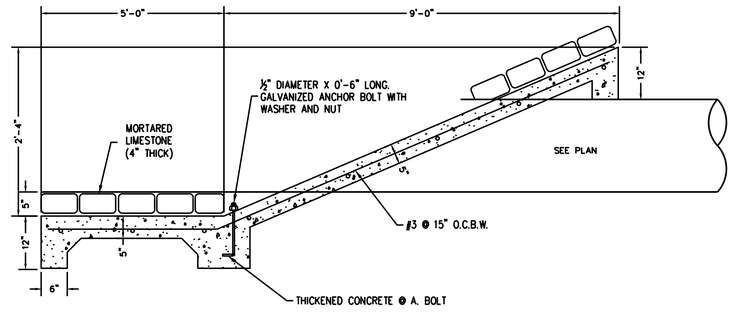
STATE OF TEXAS ANTHONY H. GOODE 97263 LICENSED PROFESSIONAL ENGINEER 4-1-24



404 FLUME CROSSING
SCALE: 1/2" = 1'



PLAN VIEW



SECTION VIEW

406 RIP-RAP OUTWALL DETAIL
N.T.S.

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021

CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

STORM DETAILS

DATE
04/01/2024

PROJECT NO.
23-008.0

DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS

NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
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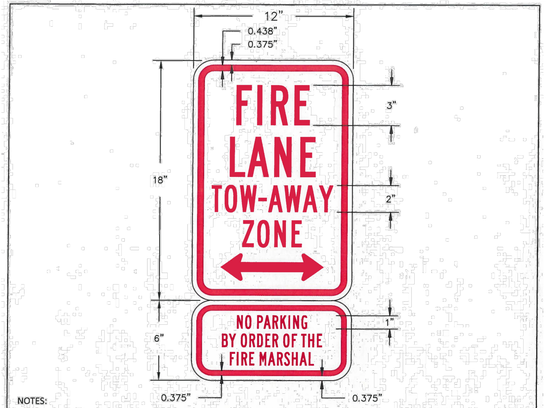
STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED
PROFESSIONAL ENGINEER
4-1-24



NOTES:

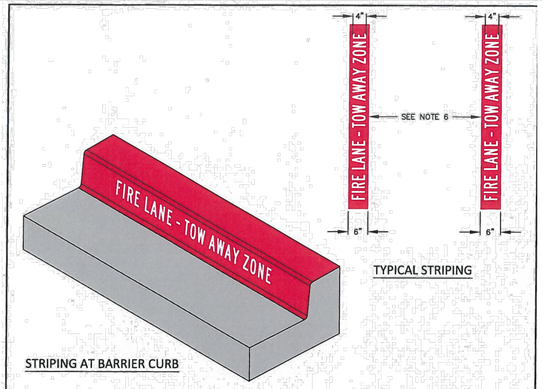
1. 12-INCH BY 18-INCH AND 12-INCH BY 6-INCH, 0.080 INCH THICK ALUMINUM BLANKS. COVERED WITH 3M DIAMOND GRADE, WHITE, REFLECTIVE SHEETING. BORDER AND LETTERING SHALL BE CUT FROM RED 3M ELECTRO CUT FILM
2. ALL FONTS SHALL BE TRAFFIC CAD SERIES B OR FHWA SERIES B
3. SIGNS SHALL BE PERMANENTLY AFFIXED TO A STATIONARY POST AND THE BOTTOM OF THE SIGN ASSEMBLY SHALL BE SIX FEET, SIX INCHES (6'-6") ABOVE FINISHED GRADE.
4. SIGNS SHALL BE SPACED NOT MORE THAN 35' APART.
5. SIGNS MAY BE INSTALLED ON PERMANENT BUILDINGS OR WALLS AS APPROVED BY THE FIRE CODE OFFICIAL.
6. IF THE SIGN IS AT THE END OF A FIRE ZONE, THE SIGN SHALL HAVE A SINGLE-HEADED ARROW POINTING IN THE DIRECTION OF THE ZONE. IF THE SIGN IS AT AN INTERMEDIATE POINT IN THE ZONE, THE SIGN SHALL HAVE A DOUBLE-HEADED ARROW POINTING IN BOTH DIRECTIONS.
7. FIRE LANE SIGNS SHALL BE POSTED ON BOTH SIDES OF FIRE APPARATUS ACCESS ROADS THAT ARE TWENTY FEET (20') TO TWENTY-SIX FEET (26') WIDE.
8. FIRE LANE SIGNS SHALL BE POSTED ON ONE SIDE OF FIRE APPARATUS ACCESS ROADS MORE THAN TWENTY-SIX FEET (26') WIDE AND LESS THAN THIRTY-TWO FEET (32') WIDE.

*THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. DRAWING NOT TO SCALE.

STATE OF TEXAS MICHAEL LAFFERTY 118708 LICENSED PROFESSIONAL ENGINEER 2017-09-28

FIRE MARSHAL

City Of Leander, Texas
DETAIL #501-1
FIRE LANE SIGN ASSEMBLY



TYPICAL STRIPING

STRIPING AT BARRIER CURB

NOTES:

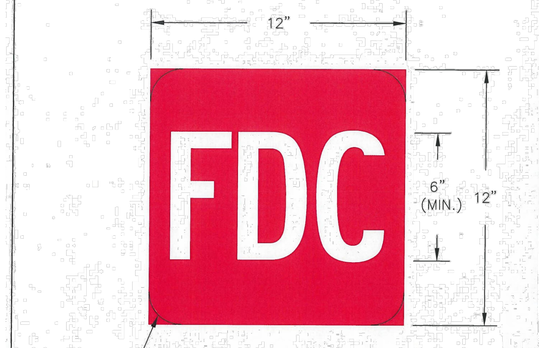
1. ALL FIRE LANE STRIPING SHALL COMPLY WITH THE CURRENT INTERNATIONAL FIRE CODE, AS ADOPTED BY THE CITY OF LEANDER, AND CITY OF LEANDER CODE OF ORDINANCES.
2. FIRE LANES SHALL BE CONTINUOUSLY MARKED BY RED TRAFFIC PAINT THAT IS MINIMUM SIX INCHES (6") IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE.
3. "FIRE LANE - TOW AWAY ZONE" SHALL APPEAR IN FOUR INCH (4") TYPE D WHITE BLOCK LETTERS AT TWENTY-FIVE FOOT (25') INTERVALS, OR LESS, ON THE RED BORDER MARKINGS ALONG BOTH SIDES OF THE FIRE LANE.
4. WHERE A 6" BARRIER CURB EXISTS, THE FIRE LANE STRIPING SHALL BE ON BOTH THE VERTICAL FACE OF THE CURB AND TOP OF CURB. "FIRE LANE - TOW AWAY ZONE" SHALL BE MARKED IN 4" WHITE BLOCK LETTERS ON FACE OF CURB ONLY.
5. WHERE A FIRE LANE IS ADJACENT TO PARKING SPACES THE FIRE LANE STRIPING SHALL BE AN 8" RED STRIPE PAINTED ON THE DRIVE SURFACE WITH 4" WHITE LETTERS STATING "FIRE LANE NO PARKING TOW-AWAY ZONE." FIRE LANE STRIPING SHALL EXTEND BEHIND ALL PARKING SPACES.
6. WHERE A FIRE HYDRANT, FIRE DEPARTMENT CONNECTION, OR OTHER FIRE PROTECTION EQUIPMENT IS LOCATED ON A FIRE LANE, THE FIRE LANE SHALL BE A MINIMUM OF TWENTY-SIX FEET (26') IN WIDTH, EXCLUSIVE OF SHOULDERS.

*THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. DRAWING NOT TO SCALE.

STATE OF TEXAS MICHAEL LAFFERTY 118708 LICENSED PROFESSIONAL ENGINEER 2017-09-28

FIRE MARSHAL

City Of Leander, Texas
DETAIL #501-2
FIRE LANE STRIPING



OPTIONAL 1 1/2" RADIUS CORNERS

NOTES:

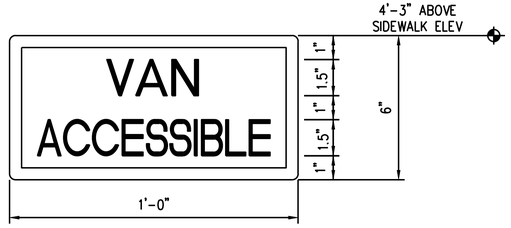
1. 12-INCH BY 12-INCH, 0.080 INCH THICK ALUMINUM BLANKS. COVERED WITH 3M DIAMOND GRADE, WHITE, REFLECTIVE SHEETING. LETTERING SHALL BE UPPER CASE, MINIMUM OF 6" IN HEIGHT WITH 1-1/4" LETTER STROKE, AND CUT FROM RED 3M ELECTRO CUT FILM.
2. ALL FONTS SHALL BE TRAFFIC CAD SERIES B OR FHWA SERIES B.
3. ON BUILDINGS, WHERE THE FIRE DEPARTMENT CONNECTION (FDC) IS NOT VISIBLE FROM THE FIRE LANE, THE FDC SHALL BE INDICATED BY AN APPROVED SIGN MOUNTED AS DIRECTED BY THE FIRE MARSHAL.
4. SIGN SHALL BE INSTALLED WITH ITS HORIZONTAL CENTERLINE A MINIMUM OF FOUR FEET (4') ABOVE THE FIRE DEPARTMENT CONNECTION AND PROVIDING AN UNOBSTRUCTED VIEW FROM THE FIRE DEPARTMENT ACCESS ROAD, TO INCLUDE CONSIDERATION FOR FUTURE VEGETATIVE GROWTH.
5. NO WATER-BASED ADHESIVES ARE PERMISSIBLE FOR USE IN ANY PART OF THE SIGN.

*THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. DRAWING NOT TO SCALE.

STATE OF TEXAS MICHAEL LAFFERTY 118708 LICENSED PROFESSIONAL ENGINEER 2017-09-28

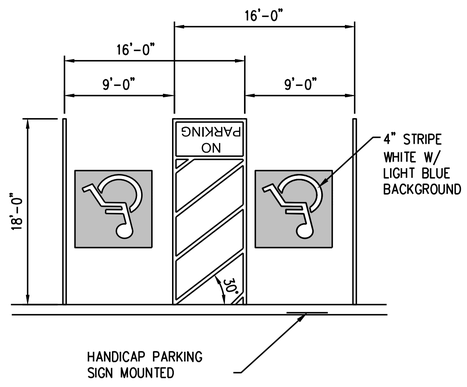
FIRE MARSHAL

City Of Leander, Texas
DETAIL #501-4
FIRE DEPARTMENT CONNECTION SIGN



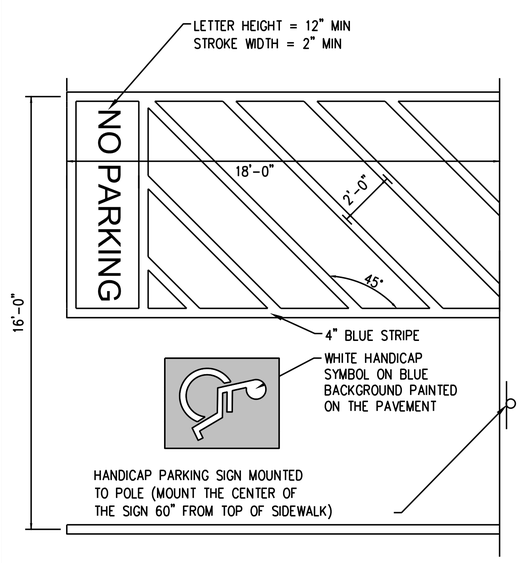
706 | VAN ACCESSIBLE PARKING SIGN
SCALE: 3" = 1'

707 | RESERVED PARKING SIGN
SCALE: 3" = 1'



"NO PARKING" TEXT:
LETTER HEIGHT = 12" MIN
STROKE WIDTH = 2" MIN

708 | TYPICAL HANDICAP PARKING STRIPE DETAIL
N. T. S.



709 | HANDICAP SPACE DETAIL
N. T. S.

"RESERVED PARKING"
SIGN BOLTED TO COLUMN
WHERE SPACES ARE DESIGNATED
"VAN ACCESSIBLE" ON PLANS

AT A MINIMUM STATE "VIOLATORS SUBJECT TO FINE AND TOWING" IN A LETTER HEIGHT OF AT LEAST ONE INCH; MOUNTED NO LOWER THAN 8" BELOW THE REQUIRED PARKING SIGN.

INSTALLED SO THE BOTTOM EDGE OF THE SIGN IS NO LOWER THAN 48" AND NO HIGHER THAN 80" ABOVE THE GROUND

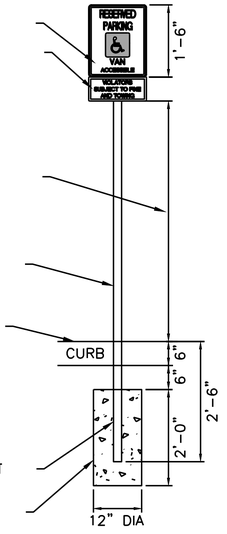
PIPE 2" STD X 8'-0"

FINISH GRADE
SIDEWALK
OR PAVEMENT

CURB

COAT PORTION OF
COLUMN EXPOSED
TO GROUND WITH
A BITUMINOUS PAINT

CONCRETE FOOTING



711 | HANDICAPPED PARKING SIGN DETAIL
SCALE: 1/2" = 1'

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021

CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

STANDARD DETAILS (1 OF 3)

DATE
04/01/2024

PROJECT NO.
23-008.0

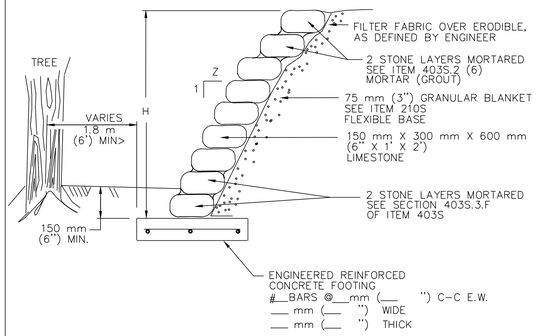
DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS

NO.	DESCRIPTION	ENGINEER APPROVAL DATE
1.		
2.		
3.		
4.		
5.		
6.		

STATE OF TEXAS ANTHONY H. GOODE 97283 LICENSED PROFESSIONAL ENGINEER 4-1-24



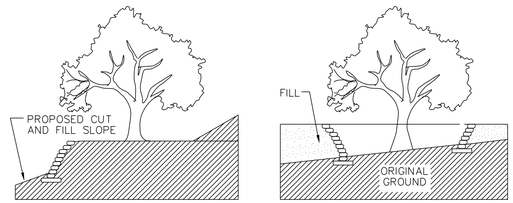
THIS STANDARD APPLIES ONLY UNDER THE FOLLOWING CONDITIONS:

A. H AND Z ARE SPECIFIED ON THE DRAWING.
B. GROUNDWATER IS NO HIGHER THAN THE BOTTOM OF THE FOOTING.
C. THE MATERIAL BELOW THE FOOTING IS FIRM AND STABLE.
D. THE MATERIAL BEHIND THE WALL HAS A LEVEL SURFACE.
E. THE MATERIAL IN FRONT OF THE WALL HAS A SLOPE NO STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL.
F. THE FACE OF THE WALL IS NO STEEPER THAN 1 HORIZONTAL TO 2 VERTICAL.
G. SURCHARGE LOADS BEHIND THE WALL ARE NO CLOSER THAN DISTANCE H FROM THE TOP OF WALL.

NOTES:

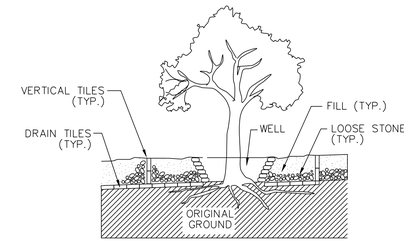
1. DESIGN AND CONSTRUCTION OF ROCK WALL SHALL CONFORM TO THE REQUIREMENTS OF CITY CODE 16-7-2, PLACEMENT OF FENCES IN STREET CORNER AREAS, AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL FOR MINIMIM SIGHT DISTANCE.
2. CONCRETE SHALL CONFORM TO ITEM 403S, "CONCRETE FOR STRUCTURES".

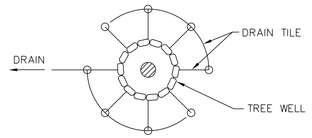
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	SLOPE PROTECTION AND TREE WELLS	
RECORD COPY SIGNED BY J. PATRICK MURPHY 03/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-6 1 OF 2



PERMANENT PROTECTIVE WALL

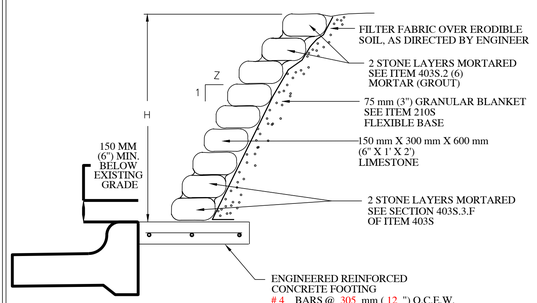
OPEN TREE WELL





TREE WELL WITH RAISED GRADE

DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	SLOPE PROTECTION AND TREE WELLS	
RECORD COPY SIGNED BY J. PATRICK MURPHY 03/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-6 2 OF 2



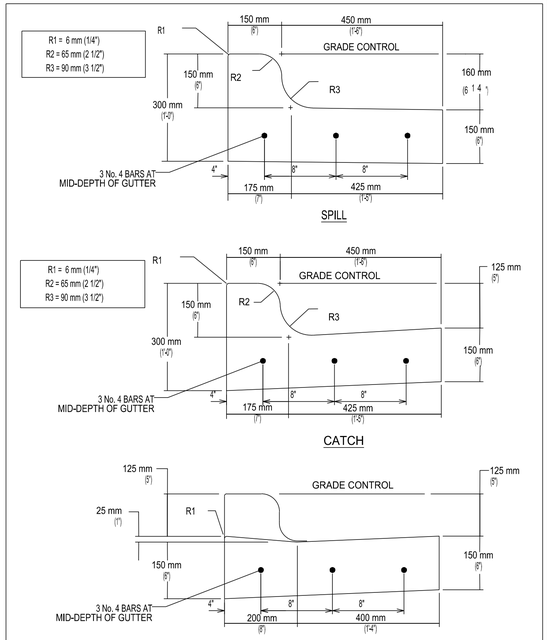
THIS STANDARD APPLIES ONLY UNDER THE FOLLOWING CONDITIONS:

A. H AND Z ARE SPECIFIED ON THE DRAWING.
B. GROUNDWATER IS NO HIGHER THAN THE BOTTOM OF THE FOOTING.
C. THE MATERIAL BELOW THE FOOTING IS FIRM AND STABLE.
D. THE MATERIAL BEHIND THE WALL HAS A LEVEL SURFACE.
E. THE MATERIAL IN FRONT OF THE WALL HAS A SLOPE NO STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL.
F. THE FACE OF THE WALL IS NO STEEPER THAN 1 HORIZONTAL TO 2 VERTICAL.
G. SURCHARGE LOADS BEHIND THE WALL ARE NO CLOSER THAN DISTANCE H FROM THE TOP OF WALL.

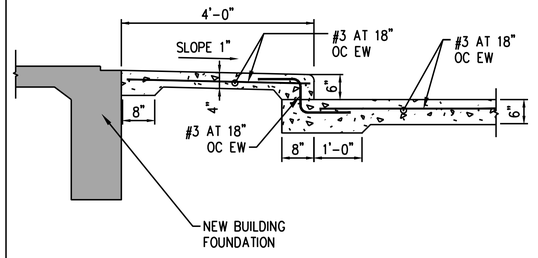
NOTES:

1. DESIGN AND CONSTRUCTION OF ROCK WALL SHALL CONFORM TO THE REQUIREMENTS OF CITY OF AUSTIN CODE 16-7-2, PLACEMENT OF FENCES IN STREET CORNER AREAS, AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL FOR MINIMIM SIGHT DISTANCE.
2. CONCRETE SHALL CONFORM TO ITEM 403S, "CONCRETE FOR STRUCTURES".

GOODE FAITH ENGINEERING	DRY STACK ROCK WALL FOR SLOPE PROTECTION W/ADJACENT CURB OR PAVEMENT	
03/26/24	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 623S-1A



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	REINFORCED CURB AND GUTTER SECTION	
RECORD COPY SIGNED BY SAM ANGOORI 01/04/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-2



512	SIDEWALK AT CURB SECTION SCALE: 1/2" = 1'

PRIVATE SIDEWALK DETAIL
SEE PICP #PICP-24-0115 FOR PUBLIC SIDEWALK DETAILS

STATE OF TEXAS
GOODE FAITH ENGINEERING
EST. 2021

CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

STANDARD DETAILS (2 OF 3)

DATE
04/01/2024

PROJECT NO.
23-008.0

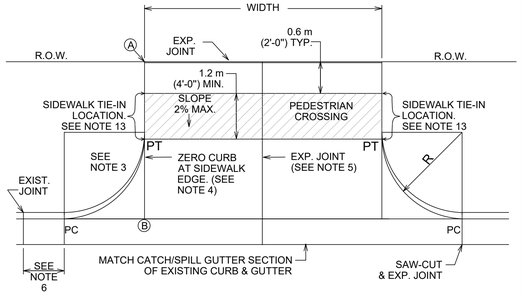
DESIGNED BY
BLB

CHECKED BY
AHG

REVISIONS

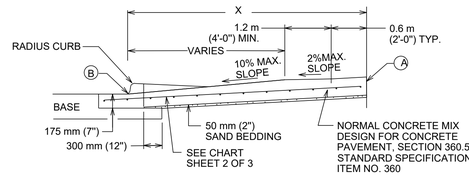
NO.	DESCRIPTION	ENGINEERED BY	APPROVAL DATE
1			
2			
3			
4			
5			
6			

STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED
PROFESSIONAL ENGINEER
4-1-24



PLAN

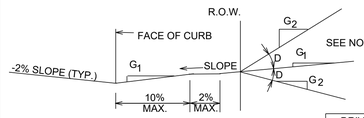
NOTE: ALL DRIVEWAYS SHALL BE SLOPED TOWARDS THE STREET FROM THE R.O.W. LINE. ELEVATION OF POINT Ⓐ ABOVE POINT Ⓑ IS, TYPICALLY A MINIMUM OF 150 mm (6") PLUS 20 mm/m (¼" RISE/FOOT) OVER DISTANCE "X" IN METERS (FEET).



CROSS SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPE II DRIVEWAY	
RECORD COPY SIGNED BY CUONG TRAN	*02/24/10*	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 433S-2
ADOPTED			1 OF 2

USE	THICKNESS	REINFORCEMENT
DRIVEWAYS FOR PASSENGER VEHICLE PARKING LOTS	150 mm (6") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 13M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS
ALL OTHERS	175 mm (7") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 13M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS



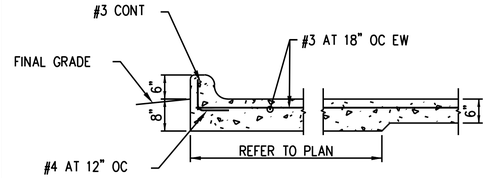
ALLOWABLE GRADES

DRIVEWAY VOLUME (ADT)	D=GRADE CHANGE STD.	MAX
>1500	0%	3%
500-1500	3%	6%
< 500	6%	15%

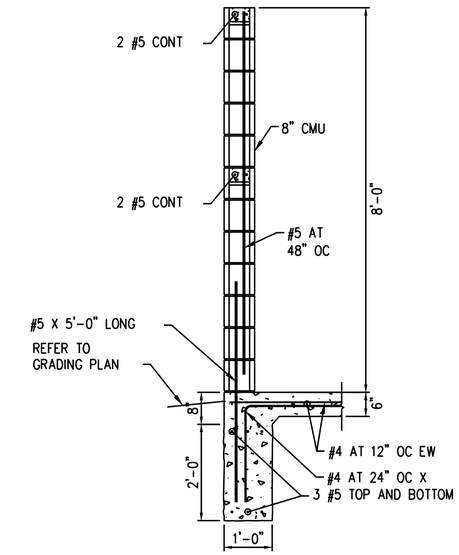
NOTES:

1. ALL TYPE II DRIVEWAYS SHALL HAVE RADIUS ENDS.
2. DRIVEWAY WIDTHS AND RADII DIMENSIONS, ONE/TWO WAY TRAVEL REQUIREMENTS, AND GEOMETRIC LAY-OUT ARE HIGHLY VARIABLE, SUBJECT TO SITE SPECIFIC CONDITIONS AND REQUIREMENTS. SEE TRANSPORTATION CRITERIA MANUAL, SECTION 5 "DRIVEWAYS".
3. THE DRIVEWAY EDGE SHALL BE SMOOTHLY TRANSITITIONED INTO THE SIDEWALK TIE-IN LOCATION BEGINNING AT THE RADIUS PC LINE.
4. "ZERO" CURB AT PT OR SIDEWALK EDGE, WHICHEVER IS ENCOUNTERED FIRST.
5. PLACE AN EXPANSION JOINT DOWN THE CENTER OF DRIVEWAY ALL DRIVEWAYS.
6. IF DIMENSION IS LESS THAN 1.5 METERS (5 FEET), REMOVE CURB AND GUTTER TO EXISTING JOINT AND POUR MONOLITHICALLY WITH DRIVEWAY.
7. IF THE BASE IS OVER-EXCAVATED WHERE THE CURB AND GUTTER WERE REMOVED, BACKFILL WITH CONCRETE MONOLITHICALLY WITH THE DRIVEWAY.
8. TYPE II DRIVEWAYS ARE TO BE LOCATED NO CLOSER TO THE CORNER OF INTERSECTING RIGHT OF WAY THAN 60% OF PARCEL FRONTAGE AT 30 METERS (100 FEET): WHICHEVER IS LESS.
9. DRIVEWAY SHALL NOT BE CONSTRUCTED WITHIN THE CURB RETURN OF A STREET INTERSECTION.
10. WHILE THE PROPERTY OWNER REMAINS RESPONSIBLE FOR GRADE BREAKS WITHIN PRIVATE PROPERTY, THE FIRE DEPARTMENT SHALL BE CONSULTED WHERE THE DRIVEWAY IS ESSENTIAL TO EMERGENCY VEHICLE ACCESS AND "G2 IS GREATER THAN 15%.
11. USE 12 MM (1/2") ASPHALT BOARD OR OTHER APPROVED MATERIAL FOR CURB AND GUTTER EXPANSION JOINTS. SIDEWALK, AT THE R.O.W. LINE AND AT MIDWIDTH, SEE NOTE 5.
12. SEE TRANSPORTATION CRITERIA MANUAL, SECTION 5 FOR OTHER DRIVEWAY REQUIREMENTS.
13. THE SIDEWALK, REGARDLESS OF ITS LOCATION WITH RESPECT TO THE CURB OR PROPERTY LINE, SHALL BE CONNECTED TO THE DRIVEWAY AT THESE LOCATIONS.
14. WATER METER BOXES AND WASTEWATER CLEAN OUTS ARE PROHIBITED FROM BEING LOCATED IN DRIVEWAY AREAS.

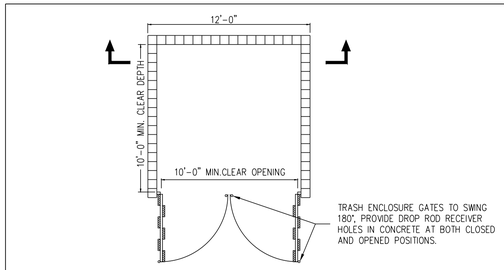
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPE II DRIVEWAY	
RECORD COPY SIGNED BY CUONG TRAN	*02/24/10*	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 433S-2
ADOPTED			2 OF 2



525 PAVEMENT AT DUMPSTER
SCALE: 1/2" = 1'



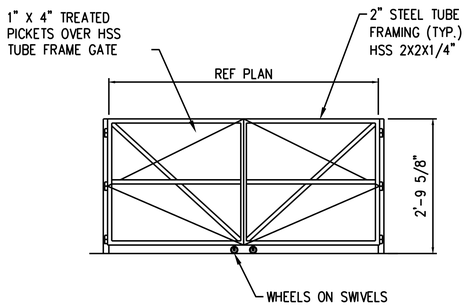
524 DUMPSTER PAVING SECTION
SCALE: 1/2" = 1'



NOTES:
1. CMU'S MUST BE FINISHED WITH STUCCO OR BRICK VENEER PAINTED TO MATCH BUILDING.

703A DUMPSTER ENCLOSURE
N.T.S.

NOTE:
WOOD PICKETS NOT SHOWN FOR CLARITY



NOTES:
1. STEEL FABRICATOR TO PROVIDE SHOP DRAWINGS OF GATE AND FENCE TO ENGINEER.

703 DUMPSTER GATE ELEVATION
N. T. S.

GOODE FAITH ENGINEERING
STATE OF TEXAS EST. 2021

CIVIL ENGINEERING AND PLANNING
(972) 822 - 1682
TBPE FIRM REGISTRATION NO. F-22664

MAC HAIK QUICK LANE

STANDARD DETAILS (3 OF 3)

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AHG

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3			
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6			

STATE OF TEXAS
ANTHONY H. GOODE
97263
LICENSED PROFESSIONAL ENGINEER
4-1-24

ATTACHMENT N – INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

MAC HAIK QUICK LANE

BMP TYPE: Two (2) Permanent Batch Detention Systems
BMP ADDRESS: 1040 Merrill Drive, Leander, TX 78641
OWNER/DEVELOPER: MH Leander Realty, LLC
11750 Katy FWY STE 1300 Houston, TX 77079
Shartley@MACKHAIK.NET
281-979-2520

The owner will be responsible for inspection, maintenance, and repair of the two (2) proposed Batch Detention Basins associated with the Mac Haik Quick Lane project. The City of Leander defers water quality control to TCEQ's rules. Per TCEQ, Edwards Aquifer Rules, water quality controls required for commercial development shall be maintained by the property owner.

Maintenance Guidelines for Batch Detention Basins (See Section 3.5.20)

Batch detention basins may have somewhat higher maintenance requirements than an extended detention basin since they are active stormwater controls. The maintenance activities are identical to those of extended detention basins with the addition of maintenance and inspections of the automatic controller and the valve at the outlet. Responsibilities for both routine and non-routine maintenance tasks need to be clearly understood and enforced. If regular maintenance and inspections are not undertaken, the basin will not achieve its intended purposes. There are many factors that may affect the basin's operation and that should be periodically checked. These factors can include mowing, control of pond vegetation, removal of accumulated bottom sediments, removal of debris from all inflow and outflow structures, unclogging of orifice perforations, and the upkeep of all physical structures that are within the detention pond area. One should conduct periodic inspections and after each significant storm. Remove floatables and correct erosion problems in the pond slopes and bottom. Pay particular attention to the outlet control perforations for signs of clogging. If the orifices are clogged, remove sediment and other debris. The generic aspects that must be considered in the maintenance plan for a detention facility are as follows:

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

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

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

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

Structural Repairs and Replacement. With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. These repairs should include patching of cracked concrete, sealing of voids, and removal of vegetation from cracks and joints. The various inlet/outlet and riser works in a basin will eventually deteriorate and must be replaced. Public works experts have estimated that corrugated metal pipe (CMP) has a useful life of about 25 yr., whereas reinforced concrete barrels and risers may last from 50 to 75 yr.

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

Sediment Removal. A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

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

By signing below, the owner confirms understanding and provides consent as the responsible party for the maintenance of the permanent BMP on the property. Refer to the engineering plans for the exact location.

3/27/24

Property Owner Date

This plan was prepared by Anthony Goode P.E. in coordination with the design and plan preparation for this development.

3/22/24

Engineer of Record Date

STORMWATER POLLUTION PREVENTION PLAN

Mac Haik Quick Lane

PREPARED FOR: MH Leander Realty, LLC

April 2024

STORMWATER POLLUTION PREVENTION PLAN

(T.P.D.E.S. GENERAL PERMIT - TXR150000)

SITE OPERATOR
(Responsible Party) _____

COVERAGE AREA _____

NOI APPLICATION DATE _____

AUTHORIZATION # _____

SITE OPERATOR _____

COVERAGE AREA _____

NOI APPLICATION DATE _____

AUTHORIZATION # _____

SITE OPERATOR _____

COVERAGE AREA _____

NOI APPLICATION DATE _____

AUTHORIZATION # _____

TABLE OF CONTENTS

PLAN IMPLEMENTATION CHECKLIST

PLAN IMPLEMENTATION CHECKLIST

1. Definition of Construction Site Operator – "The person(s) having operational control over construction plans and specifications to the extent necessary to meet the requirements and conditions of this general permit or … the person(s) having day to day operational control of those activities at the construction site which are necessary to ensure compliance with a storm water pollution prevention plan…" (TPDES General Permit (TXR150000), pg. 4)

2. All Notices of Intent (NOI), Notices of Termination (NOT), Storm Water Pollution Prevention Plans (SWPPP) reports, certification, or information either submitted to the Director, the operator of a large or medium municipal separate storm sewer system, or that this permit required and maintained by the permittee shall be signed by a responsible corporate officer, by a general partner or proprietor, by a principal executive public officer, or by a ranking elected public official.

3. At least two (2) days prior to start of construction, the Construction Site Operator must submit a Storm Water TPDES General Permit Notice of Intent (NOI) – TCEQ-20022, pg. 1 of 2 by Certified Mail-Return Receipt Requested to:

   Texas Commission on Environmental Quality
   Stormwater & General Permits Team; MC-228
   P.O. Box 13087
   Austin, Texas 78711-3087

   Note:

   TCEQ provides instructions for filling out the Notice of Intent (NOI) ~TCEQ-20022-Instructions. These instructions are included in the Notice of Intent Section of this Booklet.

4. An application fee of $325.00 payable to Texas Commission on Environmental Quality is to be attached to the second page of the Notice of Intent (NOI) – TCEQ-20022, pg. 2 of 2, and submitted separately by Certified Mail-Return Receipt to:

   By Regular Mail

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

   By Overnight/Express Mail

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

5. Submit signed copy of NOI – TCEQ-20022, pg. 1 of 2 by Certified Mail – Return Receipt to:

   NPDES Coordinator
   City of Boerne (MS4)
   P.O. Box 1677
   Boerne, Texas 78006

6. The effective date of provisional coverage starts two days from the date the completed NOI is postmarked for delivery to TCEQ. The provisional coverage is removed when the executive director finds the NOI complete, and the project is assigned an authorization number.

7. The responsible party shall post a signed copy of NOI – TCEQ-20022, pg. 1 of 2 and the SWPPP booklet in a protective covering at a 24 hour readily accessible location at the main entrance of the construction site.

8. The responsible party for the SWPPP as well as any additional site operator must sign the cover sheet within the SWPPP booklet.

9. The responsible party must implement the SWPPP prior to beginning of construction activities.

10. The responsible party shall use "Responsible Party Form" (Exhibit 5) to designate responsibility for pollution prevention measures.

11. The responsible party shall use "Inspection Report Form" to designate responsibility to conduct inspections and fill out Inspection Form.

12. The responsible party shall ensure the SWPPP provides adequate best management practices (as defined by this permit), covers appropriate areas under Responsible party's control, and all other operators on the site are notified of modifications to the SWPPP.

13. The responsible party shall in a timely fashion, sign and date, the SWPPP booklet with any modifications to design, construction, operation, maintenance, or significant change not previously addressed. Any inspection should be logged into the booklet and any controls found ineffective should be modified and noted on the SWPPP.

14. The responsible party should initiate the Notice of Change (NOC) to TCEQ and the MS4 operator within 14 days after discovery if incorrect information was submitted or if relevant facts were not included.

15. The responsible party should initiate a Notice of Termination (NOT) TCEQ-20023 to TCEQ and the MS4 operator effective at midnight of the postmarked date when and if:

    a. Final stabilization had been achieved for areas of responsibility
    b. Another permitted operator assumes control of the site
    c. All temporary structural controls have been removed, are scheduled for removal, or are transferred to another permitted operator.

16. The responsible party should pay special attention to Parts IV thru VII of the general permit TXR150000, which describe effluent limitations, reporting requirements, retention records, standard permit conditions, and fee structure.

17. The Responsible party for the SWPPP shall be aware of <u>all</u> terms and conditions of the TPDES TXR150000 general permit. The information provided in this checklist is for convenience purposes only and does not amend or limit any non-highlighted provision of the general permit. The responsible party should thoroughly read the general permit and be cognizant of their obligations as set forth in the general permit.

STORM WATER POLLUTION PREVENTIONPLAN (SWPPP)

MAC HAIK QUICK LANE
TPDES – Storm Water Pollution Prevention Plan

INTRODUCTION

This Storm Water Pollution Prevention Plan is prepared for MAC HAIK – MAC HAIK QUICK LANE, per the Texas Pollution Discharge Elimination System (TPDES) which implements the federal National Pollutant Discharge Elimination System (NPDES) in the state of Texas.

SITE DESCRIPTION

Project Name: *MAC HAIK QUICK LANE*
Project Street Address: *1040 MERRILL DRIVE, LEANDER, TX 78641*

Nature of Construction Activity: *Site clearing, grading and construction of drives, parking, sewer lines, water lines, storm water inlets and stormwater lines, utilities, and retail/coffee shop building.*

Potential Pollutant Sources:

a) *Soil erosion due to clearing of site for drainage and pavement*
b) *Oil, grease, fuel & hydraulic fluid contamination from construction vehicle drippings*
c) *Miscellaneous trash and litter from construction workers and material wrappings*
d) *Construction debris*
e) *Concrete truck washout*
f) *Hydrocarbons from asphalt paving operations*

Proposed Construction Start Date: *2024-April-1*

Proposed Construction End Date: *2024-August-1*

Sequence of Major Activities:

a) *Installation of erosion and sedimentation controls*
b) *Set-up temporary traffic controls.*
c) *Begin clearing and site demolition*
d) *Stock pile top soil.*
e) *Connect to public mains: sanitary sewer and water*
f) *Construct drainage pond/stormwater features.*
g) *Install utilities, install fill, grade to subgrade*
h) *Install traffic control for pavement and utility connections*
i) *Install pavement for fire access to building*
j) *Begin building and vertical construction*
k) *Finish pavement and drainage infrastructure installation*
l) *Install landscape and irrigation, revegetation, and striping*
m) *Removal of temporary erosion and sedimentation controls*
n) *Site clean up*

MAC HAIK QUICK LANE
TPDES – Storm Water Pollution Prevention Plan

Total Site Area (Acres): *5.725*

Total Site Area to be Disturbed (Acres): +/- *3.62 acres*

Pre-Construction Runoff Coefficient: 84

Post Construction Runoff Coefficient: 98

Soil Types: *Brackett Gravelly Clay, 3 to 12 percent slopes, ~ 96% of site Ekrant Cobbly clay 1 to 8 percent slopes, ~ 4% of site*

Industrial Activity Discharges: *None*

Receiving Water: *North Brushy Creek*

Wetlands: *No –*
Ref. Exhibit 12 - Wetland Map Overlay

National Register of Historic Places: *None*

Edwards Aquifer Recharge or Contributing Zone: *Yes*

Water Pollution Abatement Plan (WPAP): ***No***

1) EXHIBIT 1 – General Location Map
2) EXHIBIT 2
   - *a)* Site Plan illustrating the SWPPP:
     - i) Drainage patterns
     - ii) Approximate post-grading slopes
     - iii) Areas of soil disturbance
     - iv) Location of all major structural and non-structural controls either planned or in place
     - v) Locations of off-site material, waste, borrow, fill, or equipment storage
     - vi) Surface waters (including wetlands) either adjacent or in close proximity
     - vii) Storm water discharges to a surface water body
   - *b)* Typical Details:
     - i) Temporary Construction Entrance/Exit
     - ii) Silt Fence
     - iii) Rock Berm
     - iv) Construction Staging Area
     - v) Concrete washout pit

CONTROLS

The sequence of major work activities on the site will be divided into two phases: preparation and construction. Site preparation consists of installing temporary best management practices (BMPs). Site preparation will consist of clearing, grubbing, demolition, and trenching. This work, which is the initiation of all activity on the project, will disturb the largest amount of soil. Therefore, before any of this work can begin, the site contractor will be responsible for the installation and maintenance of control measures as located and illustrated on Exhibit 2. These measures are designed to prevent eroded soil from leaving the site.

Construction activities include installation of temporary BMPs and clearing. The construction contractor will be responsible for the installation of all control measures as located and illustrated on Exhibit 2. These controls are intended to prevent eroded soil, trash, and construction debris from leaving the site.

It is to be understood that modifications to the Storm Water Pollution Prevention Plan may have to be made in the field to adjust for field conditions and to provide the intended effect. All changes to the plan must be shown on Exhibit 2, dated, and signed by the responsible party.

1) EROSION AND SEDIMENT CONTROLS
   a) GOALS AND CRITERIA
      i) Erosion and sediment controls are designed to retain sediment on-site to the extent possible.
      ii) All control measures must be properly installed and maintained in accordance with manufacturer's specifications and with project specifications.
      iii) Sediment must be removed from sediment traps and basins when design capacity has been reduced by 50%.
      iv) If sediment escapes the construction site, the off-site accumulations of sediment must be removed at a frequency to minimize further negative effects, and whenever feasible, prior to the next storm event.
      v) Litter, construction debris, and construction chemicals exposed to storm water shall be prevented from becoming a pollutant source for storm water discharges.
      vi) Off-site material storage areas such as construction staging areas, soil stockpiles, and borrow areas used solely by the project are considered part of the project for Storm Water Pollution Prevention Plan purposes.

   b) STABILIZATION PRACTICES
      Stabilization practices may include but are not limited to: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of existing trees, and other similar measures.

      Interim on-site stabilization measures, which are continuous (ongoing), will include the following:

i) Soil disturbances shall be minimized by exposing only the smallest practical area of land required for the construction activity and for the shortest practical period of time.
ii) Trenching and associated backfilling for utilities and/or storm drainage piping shall be coordinated to minimize to the extent practical the time the area is disturbed.
iii) Maximum practical use will be made of natural vegetation including grass, weeds, trees, shrubs, etc. by leaving these materials in place until construction necessitates clearing the minimum practical area for continuance of construction.
iv) The minimum practical area required for the installation and construction of the utility and streets will be cleared of trees and ground cover.

Permanent on-site stabilization measures, which will be scheduled as detailed below, will include the following:

i) All disturbed soil associated with clearing will be stabilized per applicable project specifications.

Records of project milestone dates are required to be maintained and shall be recorded in Exhibit 3. Project milestones include the following:

(1) Dates when major grading activities begin and end.
(2) Dates when construction activities temporarily or permanently cease on all or a portion of the project.
(3) Dates when stabilization measures are initiated and when stabilization is complete.

c) STRUCTURAL CONTROL PRACTICES

On-site structural practices, which are continuous (on-going) until the site is permanently stabilized, may include the following:

i) Erection of silt fences, rock berms with silt fence, bagged gravel inlet filters, and sandbag controls as located and illustrated on Exhibit 2.
ii) Installation of concrete truck washout pit as located and illustrated on Exhibit 2.
iii) Installation of temporary construction entrance/exit as required and a construction staging area as located and illustrated on Exhibit 2.

These storm water pollution control features will slow the velocity of runoff thereby enhancing sedimentation and capture of contaminants that may accumulate in the storm water runoff exiting this construction site. There are no structures to divert storm water and no structures to store storm water on this project.

It is to be understood that modifications to the Storm Water Pollution Prevention Plan may have to be made in the field to adjust for field conditions and to provide the intended effect. All changes to the plan must be shown on Exhibit 2, dated, and signed by the responsible party or described and included in the Plan Modifications section of this Storm Water Pollution Prevention Plan.

2) POST-CONSTRUCTION STORM WATER MANAGEMENT
   a) This project does not require any TPDES post-construction storm water pollution controls or velocity dissipation devices.

3) OTHER CONTROLS
   Additional on-site practices, which are continuous (on-going) until the site is permanently stabilized, will include the following:
   a) Vehicular traffic leaving the construction site will exit through the temporary construction entrance/exit as located and illustrated on Exhibit 2. When soils have collected on the temporary construction entrance/exit to an extent, which reduces its intended effectiveness, the surface will be cleaned and reestablished for its designed or intended purpose.
   b) Mud/dirt inadvertently tracked off-site and onto public streets shall be removed immediately by hand or mechanical broom sweeping.
   c) Construction and waste materials shall be stored within a designated storage area in the construction equipment staging area as located and illustrated on Exhibit 2. Bulk materials such as sand, topsoil, etc. will be bordered on the down gradient sides with a silt fence as illustrated on Exhibit 2. A list of materials to be stored on-site should be recorded and regularly updated on the "On-Site Material List" provided in Exhibit 4.
   d) An area shall be designated as a construction equipment staging area as located on Exhibit 2. Construction equipment (except large slow-moving equipment) not removed from the site at night shall be stored in the containment area.
   e) Excavation spoils temporarily stored on-site, pending off-site disposal in accordance with applicable regulations, shall be bordered on the down gradient side by a silt fence as illustrated on Exhibit 2 and recorded on the "On-Site Material List" provided in Exhibit 4.
   f) The designated construction equipment staging area shall have a single entrance and will be bordered on the down gradient sides by a silt fence as illustrated on Exhibit 2.
   g) Sediment collected behind the silt fence will be periodically collected and placed as fill material within the property. Contaminated sediments will be disposed off-site in accordance to applicable regulations.
   h) The use of on-site temporary construction fuel storage tanks is limited to tank sizes which can only store unregulated quantities of fuel.
   i) Intentional release of vehicle or equipment fluid onto the ground is prohibited. Tainted soil resulting from accidental spills shall be removed and disposed of off-site in accordance with applicable regulations.
   j) Scheduled construction equipment and vehicle maintenance accomplished on-site shall be done within the construction equipment and vehicle staging area.
   k) A controlled area on-site as located and illustrated on Exhibit 2 shall be designated as a rinse-out pit for concrete trucks. Rinse-out pits shall be surrounded by a berm or hay bales to prevent runoff of contaminated water. The contractor will advise his concrete suppliers of the requirements to utilize the rinse-out pits for the intended purpose.

l) Additional rinse-out pits may be added as construction conditions require. The contractor will advise his concrete suppliers of the requirements to utilize the rinse-out pits for the intended purpose.
m) Construction waste materials, domestic garbage, etc. shall be periodically collected and disposed of off-site in accordance with applicable regulations.
n) Trash receptacles will be established at storage locations, in the vicinity of equipment storing and near the construction areas. Receptacles shall be emptied as required and disposed of off-site in accordance with applicable regulations.
o) Velocity dissipation devices, if necessary, shall be placed at discharge locations and along the length of any outfall channel to provide a non-erosive flow velocity from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected.

4) STATE AND LOCAL CONTROLS
The site is not located within the Edwards Aquifer Recharge Zone or Contributing Zone.

The site is not located on Native American Tribal lands.

Except as noted herein, there are no other known applicable state, tribal, or local storm water pollution prevention control requirements for construction projects at this location.

All activities during construction shall comply with state and/or local sanitary sewer, septic system, and waste disposal regulations.

Trees, limbs, leaves, brush, and vegetation from clearing operations shall be burned on-site in accordance with applicable permit requirements or removed from the site and disposed off-site in accordance with applicable regulations. Excavation spoils which will not be reused on this development project shall be disposed off-site at an approved location in accordance with applicable regulations.

MAINTENANCE

Structural controls shall be inspected as stipulated in this plan. Structural units shall be maintained to perform the function as intended. When a structure deteriorates to a condition so that its performance is compromised, the structure shall be repaired or replaced to full function as specified prior to the next storm event or as necessary.

Particular attention should be paid to the sedimentation areas behind the rock berm outlets, bagged gravel inlet filters, and silt fences. Sedimentation, including construction debris, tree trimming, trash, municipal type garbage, etc. will be removed and the structure restored to its original dimensions when the sediment has accumulated to six inches or more. Contaminated sediment removed from the containment areas (vehicle maintenance, concrete wash out pits, etc.) shall be disposed of off-site in accordance with appropriate regulations.

Exhibit 5 lists the various major components of this pollution prevention plan and identifies the party responsible for its function, maintenance, and inspections.

INSPECTIONS

Designated and qualified person(s) provided by the permittee shall inspect Pollution Control Measures every fourteen (14) calendar days and within twenty-four (24) hours after a storm event greater than 0.5 inches of rainfall. An inspection report that summarizes the scope of the inspection, date of inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of Storm water TPDES data for a period of three years after the date of inspection.

As a minimum, the inspector shall observe:

i) significant disturbed areas for evidence of erosion
ii) storage areas for evidence of leakage from the exposed stored materials
iii) structural controls (rock berm, silt fences, etc.) for evidence of failure or excess silting (over six inches deep)
iv) vehicle exit point for evidence of off-site sediment tracking
v) vehicle storage areas for signs of leaking equipment or spills
vi) concrete truck rinse-out pit for signs of potential failure
vii) general site cleanliness

Deficiencies noted during the inspection will be corrected and documented within seven (7) calendar days following the inspection or before the next anticipated storm event if practicable.

Exhibit 5 lists the various major components of this pollution prevention plan and identifies the party responsible for its function, maintenance, and inspections.

NON-STORM WATER DISCHARGES

Storm water discharges from this construction site may be intermittently mixed with non-storm water discharges. The following non-storm water discharges from this site authorized under this general permit include:

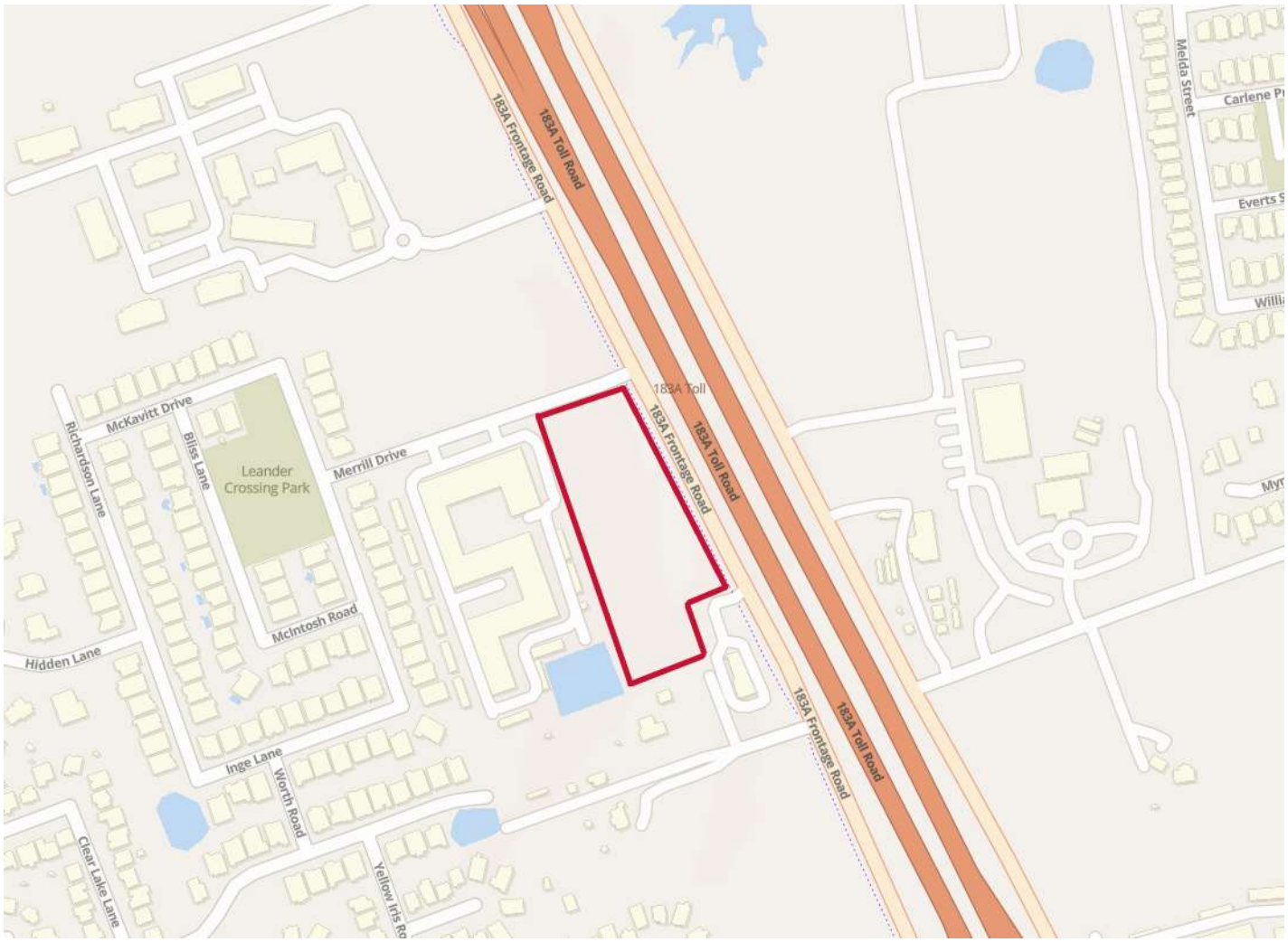
i) discharges from firefighting activities
ii) fire hydrant flushing
iii) vehicle, external building, and pavement wash water where detergents and soaps are not used and where spills of toxic or hazardous materials have not occurred
iv) water used to control dust
v) potable water sources including waterline line flushing
vi) air conditioning condensate
vii) uncontaminated ground water or spring water

The above non-storm water components would exit the site via the storm water drainage paths and would be subject to the same filtering and sedimentation provided by the vegetative drainage channels and structural controls used for storm water runoff. Other non-storm water discharges are not anticipated from the construction of this project.

LOCATION MAP

Exhibit 1

LOCATION MAP



MAC HAIK QUICK LANE

Exhibit 1

PROJECT MILESTONE DATES

Exhibit 3

PROJECT MILESTONE DATES

Dates when major site grading activities begin:

Construction Activity	Date

Dates when construction activities temporarily or permanently cease on all or a portion of the project:

Construction Activity	Date

Dates when stabilization measures are initiated:

Stabilization Activity	Date

ON-SITE MATERIALS LIST

Exhibit 4

ON-SITE MATERIALS LIST

List construction and waste materials to be stored on-site. This list is to be kept current and updated. (Examples: topsoil, gravel, sand, base, excess material to be hauled off, demolition or construction waste, bulk chemicals, fuel, lubricants, etc.)

MAC HAIK QUICK LANE

RESPONSIBLE PARTYFORM

Exhibit 5

MAC HAIK QUICK LANE

Responsible Party Form

	Pollution Prevention Measure	Responsible party Name and Phone Number		
General	Revegetation			
	Erosion/Sedimentation Controls			
	Vehicle Exits			
	Material Areas			
	Equipment Areas			
	Concrete Rinse			
	Construction Debris			
	Trash Receptacles			
Infrastructure	Site Clearing			
	Utility Clearing			
	Site Grading			
	Utility Construction			
	Drainage Construction			
	Asphalt Base			
	Asphalt Surface			
	Site Cleanup			

Identify responsible parties and indicate responsible party for each pollution prevention item listed above by marking an X under the Responsible Party Name.

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INSPECTION REPORT FORM

Exhibit 6

MAC HAIK QUICK LANE

Inspection Report

Pollution Prevention Measure		Inspected	Corrective Action	
			Description	Date Completed
Silt Fence	Inspections			
	Fencing			
	Sediment Removal			
	Torn Fabric			
	Crushed/Collapsed Fencing			
Rock Berm	Inspections			
	Remove sediment and Debris			
	Repair any loose wire sheathing			
	Reshaping			
	Replaced			
Bagged Gravel Inlet Filters	Inspections			
	Replaced/Reshaped			
	Silt Removed			
Construction Entrance/Exit	Inspections			
	Additional top Dressing			
	Repair/Cleanout			
	Sediment removed immediately			

Inspector's Name _____ Inspector's Signature _____

Name of Owner/Operator _____ Date _____

Note: Inspector is to attach a brief statement of his qualifications to this report.

PLAN MODIFICATIONS
(IF NECESSARY)

Exhibit 7

MAC HAIK QUICK LANE

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY TDPES GENERAL PERMIT (TXR150000) CONSTRUCTION SITE NOTICES PART II D.1 & D.2

EXHIBIT 8

Spill Response Actions

Potential Pollutants

The following potential pollutants can be reasonably expected at construction sites: construction debris, litter, chemical wastes, construction materials, sediment, dust, waste materials, petroleum products, sand, concrete truck wash out water, erosive flow velocity, crushed rock, discarded equipment, acid, sanitary wastes, curing compounds, lime, fly ash, cement, biological materials, and other similar pollutants. Any additional or unique potential pollutants will be addressed on the project's site map. Potential pollutants can be reasonably associated with the following typical point sources: fuel tanks, construction equipment, parked vehicles, waste containers, vehicle traffic, pumps, drainage swales, channels, exposed soil, construction entrances, stored construction materials, construction personnel, temporary buildings, demolished structures, concrete trucks, sanitary facilities, and other similar point sources. Any additional or unique point sources will be addressed on the project's site map.

Spills Cleanup and Management

The following practices will be followed for spill prevention and cleanup:

- Materials and equipment necessary for spill cleanup should be kept on site in anticipation of expected spills. Equipment and materials will most likely include but not be limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

- When spills or other accidental exposure of the substances described above occur, the following steps will be taken by the operator:

o To the maximum extent practicable, the spill or leak will be stopped.

o Once the leaking material has been stopped, the spill must be contained to minimize the affected area.

o If the spill poses an immediate danger to the public, emergency response personnel will be called. All operators on site will be notified of the spill immediately.

o The engineer inspector will determine whether the spill is of a reportable quantity and will coordinate appropriate activities as determined by the manufacturers' recommended methods for spill cleanup or material safety data sheet.

Spill Reporting

As soon as practicable, but not later than 24 hours after the discovery of an emissions event, the owner or operator of a regulated entity shall determine if the event is a reportable emissions event and notify all appropriate local pollution control agencies with jurisdiction. Spills of toxic or hazardous material of a reportable quantity should be reported to the appropriate State or Local government agency. The reportable quantities for hazardous substances for spills or discharges shall be the quantity designated as the Final Reportable Quantity (RQ) in Table 302.4 in Title 40 "Environmental Protection" of the Code of Federal Regulations §302.4.

Please refer to the emergency phone numbers listed:

- EPA Region 6 Emergency Response 24-Hour Hotline (214) 665-2222

- National Response Center 24-Hour Hotline (800) 424-8802

- Texas Environmental Release 24-Hour Hotline (800) 832-8224

- TCEQ Region 11, Austin Headquarters (512)-339-2929

Texas Administrative Code for Reportable Quantities

TITLE 30	ENVIRONMENTAL QUALITY
PART 1	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CHAPTER 327	SPILL PREVENTION AND CONTROL
RULE §327.4	

(a) Hazardous substances. The reportable quantities for hazardous substances shall be:
(1) for spills or discharges onto land--the quantity designated as the Final Reportable Quantity (RQ) in Table 302.4 in 40 CFR §302.4; or
(2) for spills or discharges into waters in the state--the quantity designated as the Final RQ in Table 302.4 in 40 CFR §302.4, except where the Final RQ is greater than 100 pounds in which case the RQ shall be 100 pounds.
(b) Oil, petroleum product, and used oil.
(1) The RQ for crude oil and oil other than that defined as petroleum product or used oil shall be:
(A) for spills or discharges onto land--210 gallons (five barrels); or
(B) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.
(2) The RQ for petroleum product and used oil shall be:
(A) except as noted in subparagraph (B) of this paragraph, for spills or discharges onto land--25 gallons;
(B) for spills or discharges to land from PST exempted facilities--210 gallons (five barrels); or
(C) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.
(c) Industrial solid waste or other substances. The RQ for spills or discharges into water in the

shall be 100 pounds.

Information for the Initial Notification

When making a telephone report of a spill or pollution complaint, it will be helpful if the following information at hand:

- The date and time of the spill or release.
- The identity or chemical name of any material released or spilled, as well as whether the substance is extremely hazardous.
- An estimate of the quantity of material released or spilled and the time or duration of the event.
- The exact location of the spill, including the name of waters involved or threatened, and any other media affected by the release or spill.
- The extent of actual and potential water pollution.
- The source of the release or spill.
- The name, address, and phone number of the party in charge of, or responsible for, the facility, vessel, or activity associated with the release or spill. If that party is not at the site, also have the name and phone number of the party at the site who is in charge of operations.
- 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 persons exposed.
- 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. The TCEQ may request estimated or measured concentrations of the contaminant for the state's hazard assessment.

The identities of any government or private-sector representatives responding at the scene.

CONSTRUCTION SITE NOTICE

FOR THE
Texas Commission on Environmental Quality (TCEQ)
Storm Water Program

TPDES GENERAL PERMIT TXR150000

The following information is posted in compliance with **Part II.D.1.** of the TCEQ General Permit Number TXR150000 for discharges of storm water runoff from construction sites. Additional information regarding the TCEQ storm water permit program may be found on the internet at:
www.tnrcc.state.tx.us/permitting/waterperm/wwperm/tpdestorm

Contact Name and Phone Number:	**Contractor:** **Contact:** **Phone:**
Project Description: (Physical address or description of the site's location, estimated start date and projected end date, or date that disturbed soils will be stabilized)	**1040 Merrill Dr** **Leander, TX 78641** **Estimated Start Date:** April **1, 2024** **Projected End Date: August 1, 2024**

For Construction Sites Authorized Under Part II.D.1. the following certification must be completed:

I_____(Typed or Printed Name Person Completing This Certification) certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization by waiver under Part II.D.1. of TPDES General Permit TXR150000 and agree to comply with the terms of this permit. Construction activities at this site shall occur within a time period listed in Appendix A of the TPDES general permit for this county, that period beginning on_____and ending on_____. I understand that if construction activities continue past this period, all storm water runoff must be authorized under a separate provision of this general permit. A copy of this signed notice is supplied to the operator of the MS4 if discharges enter an MS4 system. I am aware there are significant penalties for providing false information or for conducting unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

_____ _____

Signature and Title Date

CONSTRUCTION SITE NOTICE

FOR THE
Texas Commission on Environmental Quality (TCEQ)
Storm Water Program

TPDES GENERAL PERMIT TXR150000

The following information is posted in compliance with **Part II.D.2.** of the TCEQ General Permit Number TXR150000 for discharges of storm water runoff from construction sites. Additional information regarding the TCEQ storm water permit program may be found on the internet at:
www.tnrcc.state.tx.us/permitting/waterperm/wwperm/tpdestorm

Contact Name and Phone Number:	**Contractor:** **Contact:** **Phone:**
Project Description: (Physical address or description of the site's location, estimated start date and projected end date, or date that disturbed soils will be stabilized)	**1040 Merrill Dr** **Leander, TX 78641** **Estimated Start Date:** April **1, 2024** **Projected End Date: August 1, 2024**
Location of Storm Water Pollution Prevention Plan :	

For Construction Sites Authorized Under Part II.D.2. (Obtaining Authorization to Discharge) the following certification must be completed:

I_____(Typed or Printed Name Person Completing This Certification) certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization under Part II.D.2. of TPDES General Permit TXR150000 and agree to comply with the terms of this permit. A storm water pollution prevention plan has been developed and implemented according to permit requirements. A copy of this signed notice is supplied to the operator of the MS4 if discharges enter an MS4 system. I am aware there are significant penalties for providing false information or for conducting unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

_____ _____

Signature and Title Date

NOTICE OF INTENT (NOI)
FOR STORMWATER DISCHARGES
ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER
TPDES GENERAL PERMIT (TXR150000)

Exhibit 8

TCEQ Office Use Only
Permit No:
CN:
RN:

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

IMPORTANT INFORMATION

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

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

Once processed your permit authorization can be viewed by entering the following link into your internet 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: Click here to enter text
  - Name printed on Check: Click here to enter text
- If payment was made via ePay, provide the following:
  - Voucher Number: Click here to enter text
  - A copy of the payment voucher is attached to this paper NOI form.

(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 Click here to enter text

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?

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

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

Mac Haik Quick Lane

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

Prefix (Mr. Ms. Miss): Mr.

First and Last Name: Mac Haik Suffix: Click here to enter text

Title: President Credentials:

Phone Number 281-979-2520 (Scott Hartley)

E-mail: shartley@machaik.net

Mailing Address: 11750 Katy FWY STE 1300

City, State, and Zip Code: Houston, TX 77079

Mailing Information if outside USA: Territory:

Click here to enter text

Country Code: Click here to enter text Postal Code: Click here to enter text

d) Indicate the type of customer:

☐ Individual	☐ Federal Government
☒ Limited Partnership	☐ County Government
☐ General Partnership	☐ State Government
☐ Trust	☐ City Government
☐ Sole Proprietorship (D.B.A.)	☐ Other Government
☐ Corporation	☐ Other: Click here to enter text
☐ 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: 32088647063

Federal Tax ID: 92-3210815.

Texas Secretary of State Charter (filing) Number: 08049657

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): Mr.

First and Last Name: Anthony Goode Suffix: Click here to enter text

Title: President Credential: P.E.

Organization Name: Goode Faith Engineering LLC

Phone Number: 972-822-1682 Fax Number: Click here to enter text

E-mail: Anthony@goodefaitheng.com

Mailing Address: 1620 La Jaita Dr., Ste.300

Internal Routing (Mail Code, Etc.): Click here to enter text

City, State, and Zip Code: Cedar Park, TX, 78613

Mailing information if outside USA:

Territory: Click here to enter text

Country Code: Click here to enter text Postal Code: Click here to enter text

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 Click here to enter text

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

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

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

d) County or Counties (if located in more than one): Williamson County

e) Latitude: 30.573052 Longitude: -97.831572

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: 1040 Merrill Dr

City, State, and Zip Code: Leander, TX 78641

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? 154

d) What is the Secondary SIC Code(s), if applicable? 1542

e) What is the total number of acres to be disturbed? +/- 3.62

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? **North Fork Brushy Creek**

k) What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach? 1244A North Fork Brushy Creek

l) Is the discharge into a Municipal Separate Storm Sewer System (MS4)?

☐ Yes ☒ No

If Yes, provide the name of the MS4 operator: Click here to enter text

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: Anthony Goode, PE

Operator Signatory Title: President

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

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

Signature (use blue ink):_____Date: _____

NOTICE OF INTENT CHECKLIST (TXR150000)

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

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

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

APPLICATION FEE

If paying by check:

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

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

If using ePay:

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

RENEWAL

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

OPERATOR INFORMATION

☒ Customer Number (CN) issued by TCEQ Central Registry

☒ Legal name as filed to do business in Texas. (Call TX SOS 512-463-5555 to verify.)

☒ Name and title of responsible authority signing the application.

☒ Phone number and e-mail address

☒ Mailing address is complete & verifiable with USPS. 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

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 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 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 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 ". 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).

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).

NOTICE OF TERMINATION (NOT) FOR AUTHORIZATIONS UNDER TPDES GENERAL PERMIT (TXR150000)

Exhibit 9

TCEQ Office Use Only
Permit No:
CN:
RN:
Region:

Notice of Termination (NOT) for Authorizations under TPDES General Permit TXR150000

IMPORTANT INFORMATION:

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

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

ePermits: This form is available on our online permitting system.
Sign up for online permitting at: https://www3.tceq.texas.gov/steers/

What is the permit number to be terminated?

TXR15 enter permit number here **TXRCW** enter permit number here

Section 1. OPERATOR (Permittee)

a) What is the Customer Number (CN) issued to this entity?

b) What is the Legal Name of the current permittee?

MAC HAIK

c) Provide the contact information for the Operator (Responsible Authority).

Prefix (Mr. Ms. or Miss): Mr.

First and Last Name: Mac Haik Suffix: enter suffix

Title: President Credentials: P.E,

Phone Number: 281-979-2500 (Scott Hartley)

Email:shartley@machaik.net

Mailing Address: 11750 Katy FWY STE 1300

City, State, and Zip Code: Houston, TX 77079

Country Mailing Information, if outside USA: enter country mailing info here

Section 2. APPLICATION CONTACT

This is the person TCEQ will contact if additional information is needed regarding this application.

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

☐ Yes, go to Section 3.

☒ No, complete section below

Prefix (Mr. Ms. or Miss): Mr.

First and Last Name: Anthony Goode Suffix: enter suffix here

Title: President Credentials: P.E.

Phone Number: 512 - 260 -9100 Fax Number: enter fax number here

Email: anthony@goodefaitheng.com

Mailing Address: 1620 La Jaita Dr., Ste 300

City, State, and Zip Code: Cedar Park, TX 78613

Country Mailing Information, if outside USA: enter country mailing info here

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

a) TCEQ issued RE Reference Number (RN): RN enter regulated entity number here

b) Name of project or site as known by the local community: Mac Haik Quick Lane

c) County, or counties if more than 1: Williamson County

d) Latitude: 30.573052 Longitude: -97.831572

e) Site Address/Location:

If the site has a physical address such as 12100 Park 35 Circle, Austin, TX 78753, complete Section 3A.

If the site does not have a physical address, provide a location description in Section 3B. Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1.

Section 3A: Physical Address of Project or Site:

Street Number and Name: 1040 Merrill Drive

City, State, and Zip Code: Leander, TX 78641

Section 3B: Site Location Description:

Location description:

City where the site is located or, if not in a city, what is the nearest city: Zip Code where the site is located:

Section 4. REASON FOR TERMINATION

Check the reason for termination:

☒ Final stabilization has been achieved on all portions of the site that are the responsibility of the Operator and all silt fences and other temporary erosion controls have been removed or scheduled for removal as defined in the SWP3.

☒ Another permitted Operator has assumed control over all areas of the site that have not been finally stabilized, and temporary erosion controls that have been identified in the SWP3 have been transferred to the new Operator.

☒ The discharge is now authorized under an alternate TPDES permit.

☒ The activity never began at this site that is regulated under the general permit.

Section 5. CERTIFICATION

Signatory Name: enter signatory name here

Signatory Title: enter signatory title here

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: _____

Instructions for Notice of Termination (NOT) for Authorizations under TPDES General Permit TXR150000

GENERAL INFORMATION

Where to Send the Notice of Termination (NOT):

BY REGULAR U.S. MAIL:
Texas Commission on Environmental Quality
Stormwater Processing Center (MC -228)
P.O. Box 13087
Austin, Texas 78711 - 3087

BY OVERNIGHT/EXPRESS MAIL:
Texas Commission on Environmental Quality
Stormwater Processing Center (MC -228)
12100 Park 35 Circle
Austin, TX 78753

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 Termination Process:

A Notice of Termination is **effective on the date postmarked for delivery to TCEQ.**

When your NOT is received by the program, the form will be processed as follows:

1) Administrative Review: The form will be reviewed to confirm the following:
   - the permit number is provided.
   - the permit is active and has been approved;
   - the entity terminating the permit is the current permittee;
   - the site information matches the original permit record; and
   - the form has the required original signature with title and date.

2) Notice of Deficiency: If an item is incomplete or not verifiable as indicated above, a phone call will be made to the applicant to clear the deficiency. A letter will not be sent to the permittee if unable to process the form.

3) Confirmation of Termination: A Notice of Termination Confirmation letter will be mailed to the operator.

Change in Operator:

An authorization under the general permit is not transferable. If the operator of the regulated entity 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 not later than 10 days prior to the change in Operator status.

INSTRUCTIONS FOR FILLING OUT THE FORM

The majority of permit information related to the current operator and regulated entity are available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

Section 1. Operator (Current Permittee):

a) Customer Number (CN)
TCEQ's Central Registry assigns each customer a number that begins with CN, followed by nine digits. This is not a permit number, registration number, or license number. The Customer Number, for the current permittee, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

b) Legal Name of Operator
The operator must be the same entity as previously submitted on the original Notice of Intent for the permit number provided. The current operator name, as provided on the current authorization, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

c) Contact Information for the Operator (Responsible Authority)
Provide information for person signing the NOT 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. Update the address if different than previously submitted for the Notice of Intent or Notice of Change. 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 operator.

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

Section 2. Application Contact:

Provide the name, title and contact information of 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 Reference Number (RN)
A number issued by TCEQ's Central Registry to sites where an activity regulated by TCEQ. This is not a permit number, registration number, or license number. The Regulated Entity Reference Number is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

b) Name of the Project or Site
Provide the name of the site as known by the public in the area where the site is located.

c) County
Identify the county or counties in which the regulated entity is located.

d) Latitude and Longitude
Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. The latitude and longitude as provided on the current authorization is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

e) Site/Project (RE) Physical Address/Location Information
The physical address/location information, as provided on the current authorization, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

Section 3A. If a site has an address that includes a street number and street name, enter the complete address for the site. 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 the 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.

Section 3B. If a site does not have an address that includes a street number and street name, provide a complete written location description. 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 facility location.

Section 4. Reason for Termination:

The Notice of Termination form is only for use to terminate the authorization (permit). The Permittee must indicate the specific reason for terminating by checking one of the options. If the reason is not listed, then provide an attachment that explains the reason for termination.

Please read your general permit carefully to determine when to terminate your permit. Permits will not be reactivated after submitting a termination form. The termination is effective on the date postmarked for delivery to TCEQ.

Section 5. Certification:

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

IF YOU ARE A CORPORATION:
The regulation that controls who may sign an application form is 30 Texas Administrative Code §305.44(a), which is provided 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), which is provided 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 statutes 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 Texas Commission on Environmental Quality'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
TDPES GENERAL PERMIT (TXR150000)

Exhibit 11

General Permit to Discharge Under the Texas Pollutant Discharge Elimination System

Stormwater Discharges Associated with Construction Activities

TXR150000

Effective March 5, 2023

printed on recycled paper

TEXAS COMMISSION ON ENVIRONMENTAL QUAL

Texas Commission on Environmental Quality

P.O. Box 13087, Austin, Texas 78711-3087

GENERAL PERMIT TO DISCHARGE UNDER THE

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM

under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

This permit supersedes and replaces
TPDES General Permit No. TXR150000,
effective March 5, 2018, and amended January 28, 2022

Construction sites that discharge stormwater associated with construction activity located in the state of Texas may discharge to surface water in the state only according to monitoring requirements and other conditions set forth in this general permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ or Commission), the laws of the State of Texas, and other orders of the Commission of the TCEQ. The issuance of this general permit does not grant to the permittee the right to use private or public property for conveyance of stormwater and certain non-stormwater discharges along the discharge route. This includes property belonging to but not limited to any individual, partnership, corporation or other entity. Neither does this general permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This general permit and the authorization contained herein shall expire at midnight, on March 5, 2028.

EFFECTIVE DATE: March 5, 2023

ISSUED DATE: February 27, 2023

For the Commission

MAC HAIK QUICK LANE

Exhibit 12

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

I Mac Haik,
Print Name

President,
Title - Owner/President/Other

of MH Leander Realty LLC,
Corporation/Partnership/Entity Name

have authorized Anthony Goode
Print Name of Agent/Engineer

of Goode Faith Engineering LLC
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

3/27/24
Date

THE STATE OF Texas §

County of Harris §

BEFORE ME, the undersigned authority, on this day personally appeared Mac Haik 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 27 day of March, 24.

NOTARY PUBLIC

Maria Amaya
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 10/4/2027

MARIA AMAYA
Notary ID #134588784
My Commission Expires
October 4, 2027

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: MAC HAIK QUICK LANE
Regulated Entity Location: 1040 Merrill Drive, Leander, TX 78641
Name of Customer: MH LEANDER REALTY, LLC
Contact Person: Scott R. Hartley Phone: (281) 979-2520
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
☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	*Size*	*Fee Due*
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	5.725 Acres	$ 5,000
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: _____ Date: 3/27/24

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

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

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* — *If new Customer, enter previous Customer below:*

MH LEANDER REALTY, LLC

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0804949657	32088647063	92-3210815	

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

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

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

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

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

15. Mailing Address:	11750 KATY FWY STE 1300						
	City	HOUSTON	**State**	TX	**ZIP**	77079	**ZIP + 4**	1267

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	SHARTLEY@MACHAIK.NET

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

(281) 979-2520		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

MAC HAIK QUICK LANE

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	1040 Merrill Drive							
	City	Leander	**State**	TX	**ZIP**	78641	**ZIP + 4**	
24. County	Williamson							

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

25. Description to Physical Location:	S of Merrill Dr and E of 183A Toll FR Rd and North of Woodview Dr.

26. Nearest City	**State**	**Nearest ZIP Code**
Leander	TX	78641

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	30.57207589713842		**28. Longitude (W) In Decimal:**	-97.83118672821682	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	34	19.473	-97	49	52.2726

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)
1542		236220	

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

Construction of car service stations

34. Mailing Address:	**11750 KATY FWY STE 1300**							
	City	**Houston**	**State**	**TX**	**ZIP**	**77079**	**ZIP + 4**	**1267**
35. E-Mail Address:	**SHARTLEY@MACHAIK.NET**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 979-2520		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Anthony H. Goode	**41. Title:**	PE

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(972 **)** 822-1682		**( )** -	ANTHONY@GOODEFAITHENG.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:	Goode Faith Engineering, LLC	**Job Title:**	President	
Name *(In Print):*	Anthony Goode		**Phone:**	**(** 972 **)** 822- **1682**
Signature:			**Date:**	4/2/2024