

Contributing Zone Plan

For

Len Bar Business Park

**200 Len Bar Lane
Leander, TX 78641**



10/30/2025

**Prepared By
Hill Country Civil, LLC
391 Landa St. Ste. 1204
New Braunfels, TX 78130
Christopher B. Allison, PE**



Hill Country Civil

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Modification of a Previously Approved Contributing Zone Plan Checklist

- **Edwards Aquifer Application Cover Page (TCEQ-20705)**
- **Modification of a Previously Approved Contributing Zone Plan Form (TCEQ-10259)**
 - Attachment A - Original Approval Letter and Approved Modification Letters
 - Attachment B - Narrative of Proposed Modification
 - Attachment C - Current site plan of the approved project
- **Contributing Zone Plan Application (TCEQ-10257)**
- **Storm Water Pollution Prevention Plan (SWPPP)**
- **-OR-**
- **Temporary Stormwater Section (TCEQ-0602)**
- **Copy of Notice of Intent (NOI)**
- **Agent Authorization Form (TCEQ-0599), if application submitted by agent**
- **Application Fee Form (TCEQ-0574)**
- **Check Payable to the “Texas Commission on Environmental Quality”**
- **Core Data Form (TCEQ-10400)**



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Application Cover Page

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: Len Bar Business Park					2. Regulated Entity No.:				
3. Customer Name: JMA Entity 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):		5.74	
9. Application Fee:	\$5,000		10. Permanent BMP(s):			Batch Detention			
11. SCS (Linear Ft.):			12. AST/UST (No. Tanks):						
13. County:	Williamson		14. Watershed:			South Fork San Gabriel River			

Application Distribution

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

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

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

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

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

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

Christopher B. Allison

Print Name of Customer/Authorized Agent

10/30/25

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):



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Modification of a Previously Approved Contributing Zone Plan

Modification of a Previously Approved Contributing Zone Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), 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.

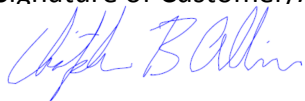
Signature

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 **Modification of a Previously Approved Contributing Zone Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Christopher B. Allison

Date: 10/30/25

Signature of Customer/Agent:



Project Information

- Current Regulated Entity Name: Len Bar Business Park
Original Regulated Entity Name: Big Chief Storage
Assigned Regulated Entity Number(s) (RN): 111808226
Edwards Aquifer Protection Program ID Number(s): 11003714
☐ The applicant has not changed and the Customer Number (CN) is: _____
☒ The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
- ☒ **Attachment A: Original Approval Letter and Approved Modification Letters.** A copy of the original approval letter and copies of any modification approval letters are attached.
- A modification of a previously approved plan is requested for (check all that apply):

- ☒ Any physical or operational modification of any best management practices or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
- ☐ Any change in the nature or character of the regulated activity from that which was originally approved;
- ☐ A change that would significantly impact the ability to prevent pollution of the Edwards Aquifer and hydrologically connected surface water; or
- ☐ Any development of land previously identified in a contributing zone plan as undeveloped.

4. ☒ Summary of Proposed Modifications (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

<i>CZP Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Acres	<u>5.74</u>	<u>5.74</u>
Type of Development	<u>Commercial</u>	<u>Commercial</u>
Number of Residential	<u>N/A</u>	<u>N/A</u>
Lots		
Impervious Cover (acres)	<u>2.47</u>	<u>2.89</u>
Impervious Cover (%)	<u>43</u>	<u>50</u>
Permanent BMPs	<u>Batch Detention Pond</u>	<u>Batch Detention Pond</u>
Other	<u> </u>	<u> </u>
<i>AST Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Number of ASTs	<u> </u>	<u> </u>
Other	<u> </u>	<u> </u>
<i>UST Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Number of USTs	<u> </u>	<u> </u>
Other	<u> </u>	<u> </u>

5. ☒ **Attachment B: Narrative of Proposed Modification.** A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved,

including previous modifications, and how this proposed modification will change the approved plan.

6. ☒ **Attachment C: Current Site Plan of the Approved Project.** A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
- ☒ The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
- ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
- ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
7. ☒ Acreage has not been added to or removed from the approved plan.
- ☐ Acreage has been added to or removed from the approved plan and is discussed in *Attachment B: Narrative of Proposed Modification*.
8. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.



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Attachment A - Original Approval Letter and Approved Modification letters

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 1, 2023

Mr. Terry Oliver
Big Chief Storage, LLC.
250 N. Bagdad Road
Leander, Texas 78641

Re: Approval of a Contributing Zone Plan (CZP)
Big Chief Storage; Located southeast of CR 270 and Len Bar Lane, inside the ETJ of
Leander, Williamson County, Texas
Edwards Aquifer Protection Program ID: 11003714, Regulated Entity No. RN111808226

Dear Mr. Jones:

The Texas Commission on Environmental Quality (TCEQ) has completed its review on the application for the above-referenced project submitted to the Edwards Aquifer Protection Program (EAPP) by Eli Engineering, PLLC. on behalf of the applicant, Big Chief Storage, LLC. on September 11, 2023. Final review of the application was completed after additional material was received on November 17, 2023, and November 29, 2023.

As presented to the TCEQ, the application was prepared in general compliance with the requirements of 30 Texas Administrative Codes (TAC) Chapter §213. The permanent best management practices (BMPs) and measures represented in the application were prepared by a Texas licensed professional engineer (PE). All construction plans and design information were sealed, signed, and dated by a Texas licensed PE. Therefore, the application for the construction of the proposed project and methods to protect the Edwards Aquifer are **approved**, subject to applicable state rules and the conditions in this letter.

This approval expires two years from the date of this letter, unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been officially requested. This approval or extension will expire, and no extension will be granted if more than 50 percent of the project has not been completed within ten years from the date of this letter.

The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this contributing zone plan or modification to a plan. A motion for reconsideration must be filed in accordance with 30 TAC §50.139.

PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 5.74-acres. The project will include the construction of three buildings with associated parking lots, drives, and utilities. The impervious cover will be 2.47-acres (43 percent). According to a letter dated, July 26, 2023, signed by Mr. Christopher Moreno, with Williamson County, the site in the development is acceptable for the use of on-site sewage facilities.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, one (1) batch detention pond and one (1) engineered vegetative filter strip, designed using the TCEQ technical guidance, *RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices*, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 2,150 pounds of TSS generated from the 2.47-acres of impervious cover. The approved permanent BMPs and measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The permanent BMPs shall be operational prior to occupancy or use of the proposed project. Inspection, maintenance, repair, and retrofit of the permanent BMPs shall be in accordance with the approved application.

STANDARD CONDITIONS

1. The plan holder (applicant) must comply with all provisions of 30 TAC Chapter §213 and all technical specifications in the approved plan. The plan holder should also acquire and comply with additional and separate approvals, permits, registrations or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, Dam Safety, Underground Injection Control) as required based on the specifics of the plan.
2. In addition to the rules of the Commission, the plan holder must also comply with state and local ordinances and regulations providing for the protection of water quality as applicable.

Prior to Commencement of Construction:

3. The plan holder of any approved contributing zone plan must notify the EAPP and obtain approval from the executive director prior to initiating any modification to the activities described in the referenced application following the date of the approval.
4. The plan holder must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the EAPP no later than 48 hours prior to commencement of the regulated activity. Notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person.
5. Temporary erosion and sedimentation (E&S) controls as described in the referenced application, must be installed prior to construction, and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

6. The application must indicate the placement of permanent aboveground storage tanks facilities for static hydrocarbons and hazardous substances with cumulative storage capacity of 500 gallons or more. Subsequent permanent storage tanks on this project site require a modification to be submitted and approved prior to installation.

7. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
8. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge must be filtered through appropriately selected BMPs.
9. The following records shall be maintained and made available to the executive director 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.
10. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

11. Owners of permanent BMPs and temporary measures must ensure that the BMPs and measures are constructed and function as designed. A Texas licensed PE **must certify** in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the EAPP within 30 days of site completion.
12. The applicant shall be 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 or the ownership of the property is transferred to the entity. A copy of the transfer of responsibility must be filed with the executive director through the EAPP within 30 days of the transfer. TCEQ form, Change in Responsibility for Maintenance on Permanent BMPs and Measures (TCEQ-10263), may be used.

The holder of the approved contributing zone plan is responsible for compliance with Chapter §213 subchapter B and any condition of the approved plan through all phases of plan implementation. Failure to comply with any condition within this approval letter is a violation of Chapter §213 subchapter B and is subject to administrative rule or orders and penalties as provided under §213.25 of this title (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. Upon legal transfer of this property, the new owner is required to comply with all terms of the approved contributing zone plan.

Mr. Terry Oliver
Page 4
December 1, 2023

This action is taken as delegated by the executive director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Mr. Drew Evans, P.G. of the Edwards Aquifer Protection Program at (210) 403-4053 or the regional office at 512-339-2929.

Sincerely,



Lillian I. Butler, Section Manager
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality

LIB/de

cc: Mr. Gary Jones, P.E., Eli Engineering, LLC



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Attachment B-Narrative of Proposed Modification

Attachment B: Narrative of Proposed Modification

The Len Bar Business Park Contributing Zone Plan Modification (CZP MOD) is a first modification to a previously approved CZP plan called Big Chief Storage which was originally approved by TCEQ on December 1, 2023. The approved CZP included the construction of three buildings with associated parking lots, drives, utilities, and one batch detention pond. Approximately 2.47 acres of impervious cover. The previously approved CZP plan construction has not commenced. This plan proposes the construction of 3 commercial buildings, associated parking, utility infrastructure, and one batch detention pond. Approximately 2.89 acres of impervious cover. Len Bar Business Park is located at 200 Len Bar Lane, Leander, TX 78641; within the extraterritorial jurisdiction (ETJ) of the City of Leander.

The site lies within the South Fork San Gabriel River watershed. Since the project is located over the Edwards Contributing Zone, a Geologic Assessment was not conducted and is not required by 30 TAC 213 regulations. Therefore, no naturally occurring sensitive features are known to exist on the site. 30 TAC 213(f)(2) only applies to projects over the Edwards Recharge Zone.

This Len Bar Business Park CZP MOD proposes clearing and grubbing of vegetation where applicable, grading, construction of 3 commercial buildings with associated parking, landscaping, excavation, installation of drainage and utilities, and site cleanup. This will disturb approximately 5.74 acres.

The existing conditions contain 0.20 acres of impervious cover. Proposed development will disturb approximately 5.74 acres, of which, 2.89 acres is proposed impervious cover. Based on the total site acreage of 5.74 acres, the total impervious cover percentage with the proposed improvements is 50.35%.

Wastewater flows generated by the project will be treated by an onsite septic system.

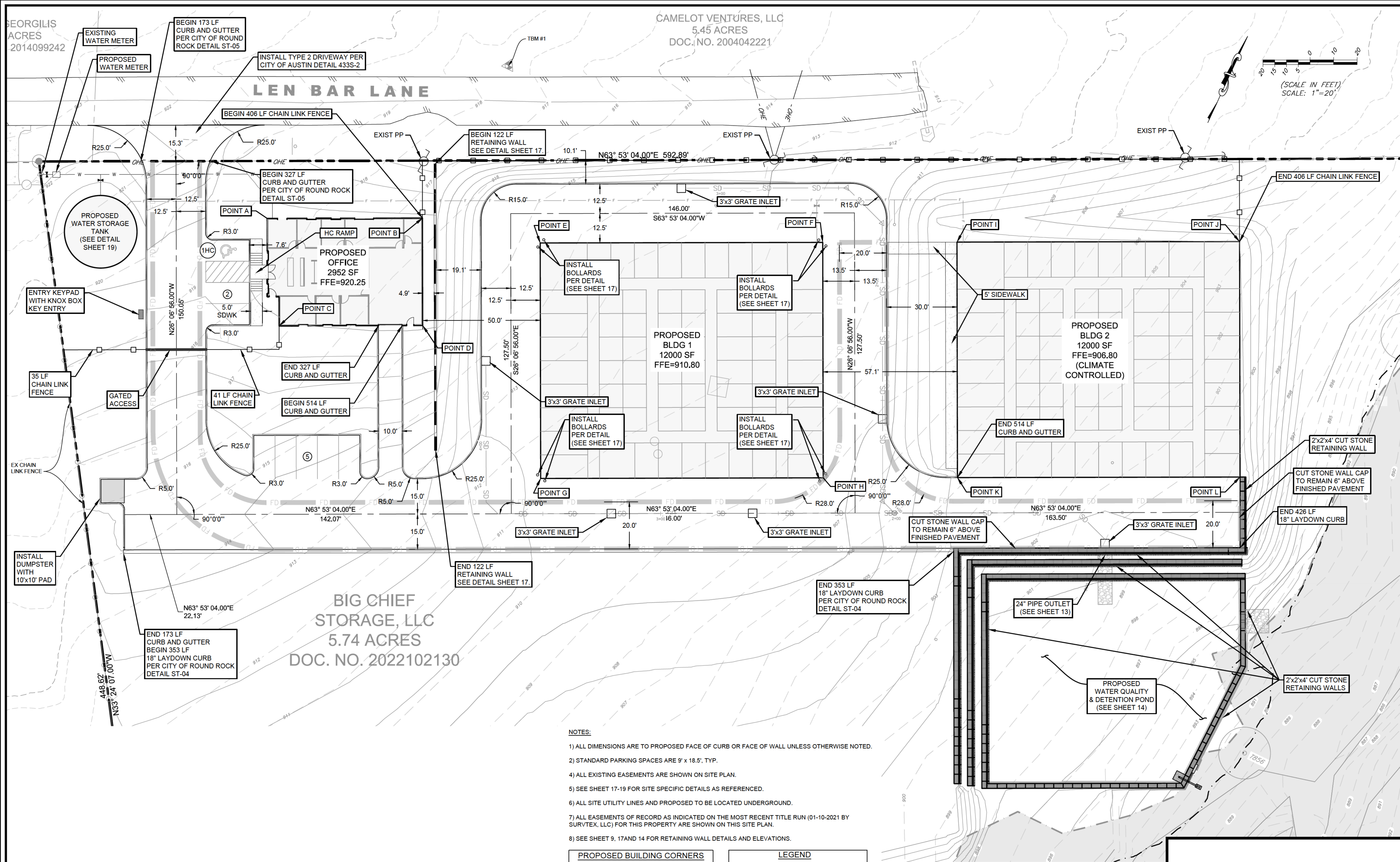
Water will be provided by Aqua Texas, Inc.



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Attachment C-Current Site Plan of Approved Project

C:\Users\james\Desktop\Projects\BIG CHIEF STORAGE\BIG CHIEF STORAGE SITE - DIMENSIONAL.dwg Jun 14, 23 2:23 pm



PROJECT / PERMIT #	BY

REVISION	DATE	NO.

GARY ELI JONES
79198
REGISTERED PROFESSIONAL ENGINEER
Jun 14, 2023

ELI ENGINEERING
ELI ENGINEERING, PLLC.
700 THERESA COVE, CEDAR PARK, TX 78613
312-666-8065

WILLIAMSON COUNTY, TEXAS

BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
SITE AND DIMENSIONAL CONTROL PLAN

DRAWING SCALE:	HORIZ. =	VERT. =
SURVEYED:		
FILE NAME:		
DATE:		
DRAWN:	GEJ	
DESIGNED:	EEL	

SHEET
7
OF
19



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Contributing Zone Plan Application

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: Christopher B. Allison

Date: 10/30/25

Signature of Customer/Agent:



Regulated Entity Name: Len Bar Business Park

Project Information

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

Contact Person: John Muhich

Entity: JMA Entity LLC

Mailing Address: 4203 Spinnaker Cv.

City, State: Austin, TX

Telephone: 512-452-7789

Email Address: johnsmuhich@gmail.com

Zip: 78731

Fax: _____

5. Agent/Representative (If any):

Contact Person: Christopher B. Allison

Entity: Hill Country Civil

Mailing Address: 391 Landa St. Ste 1204

City, State: New Braunfels, TX

Zip: 78130

Telephone: 817-659-9078

Fax:

Email Address: blake@hillcountrycivil.com

6. Project Location:

- ☐ The project site is located inside the city limits of .
- ☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Leander
- ☐ 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.

200 Len Bar Lane, Leader, TX 78641

8. ☒ **Attachment A - Road Map.** A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

9. ☒ **Attachment B - USGS Quadrangle Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000") is attached. The map(s) clearly show:

- ☒ Project site boundaries.
- ☒ USGS Quadrangle Name(s).

10. ☒ **Attachment C - Project Narrative.** A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

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

11. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site

- ☐ Existing paved and/or unpaved roads
☒ Undeveloped (Cleared)
☐ Undeveloped (Undisturbed/Not cleared)
☐ Other: _____

12. The type of project is:

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

13. Total project area (size of site): 5.74 Acres

Total disturbed area: 5.74 Acres

14. Estimated projected population: 20

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

Table 1 - Impervious Cover

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
Structures/Rooftops	57,375	÷ 43,560 =	1.32
Parking	62,493	÷ 43,560 =	1.43
Other paved surfaces	6,098	÷ 43,560 =	0.14
Total Impervious Cover	125,966	÷ 43,560 =	2.89

Total Impervious Cover 2.89 ÷ **Total Acreage** 5.74 X 100 = 50.35 % Impervious Cover

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

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

For Road Projects Only

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

☒ N/A

18. Type of project:

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

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

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

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

Length of R.O.W.: _____ feet.

Width of R.O.W.: _____ feet.

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

21. Pavement Area:

Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

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

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 = \text{_____ \%}$ impervious cover.

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

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

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

☒ N/A

26. Wastewater will be disposed of by:

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

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

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

☐ Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.

☐ Proposed.

☒ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

☒ N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
1			
2			
3			
4			
5			

Total x 1.5 = _____ Gallons

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

5 of 11

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

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

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

Table 3 - Secondary Containment

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

Total: _____ Gallons

30. Piping:

- ☐ All piping, hoses, and dispensers will be located inside the containment structure.
- ☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
- ☐ The piping will be aboveground
- ☐ The piping will be underground

31. ☐ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: _____.

32. ☐ **Attachment H - AST Containment Structure Drawings.** A scaled drawing of the containment structure is attached that shows the following:

- ☐ Interior dimensions (length, width, depth and wall and floor thickness).
- ☐ Internal drainage to a point convenient for the collection of any spillage.
- ☐ Tanks clearly labeled
- ☐ Piping clearly labeled
- ☐ Dispenser clearly labeled

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

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

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

Site Plan Requirements

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

34. ☒ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 30 '.
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): 48491C0455F effective 12/20/2019.
36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
- ☒ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.
38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
39. ☒ Areas of soil disturbance and areas which will not be disturbed.
40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41. ☒ Locations where soil stabilization practices are expected to occur.
42. ☐ Surface waters (including wetlands).
☒ N/A
43. ☐ Locations where stormwater discharges to surface water.
☒ There will be no discharges to surface water.
44. ☐ Temporary aboveground storage tank facilities.
☒ Temporary aboveground storage tank facilities will not be located on this site.

45. ☐ Permanent aboveground storage tank facilities.
☒ Permanent aboveground storage tank facilities will not be located on this site.
46. ☒ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

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

47. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☐ N/A
48. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____.
☐ N/A
49. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.
☐ N/A
50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.
☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.
☒ The site will not be used for low density single-family residential development.

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

- ☐ **Attachment I - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
- ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ☒ The site will not be used for multi-family residential developments, schools, or small business sites.

52. ☒ **Attachment J - BMPs for Upgradient Stormwater.**

- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- ☒ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. ☒ **Attachment K - BMPs for On-site Stormwater.**

- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.

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

☒ N/A

55. ☒ **Attachment M - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are

attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

☐ N/A

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

- ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
- ☒ Signed by the owner or responsible party
- ☒ Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
- ☒ Contains a discussion of record keeping procedures

☐ N/A

57. ☐ **Attachment O - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

☒ N/A

58. ☐ **Attachment P - Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that result in water quality degradation.

☒ N/A

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

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

or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

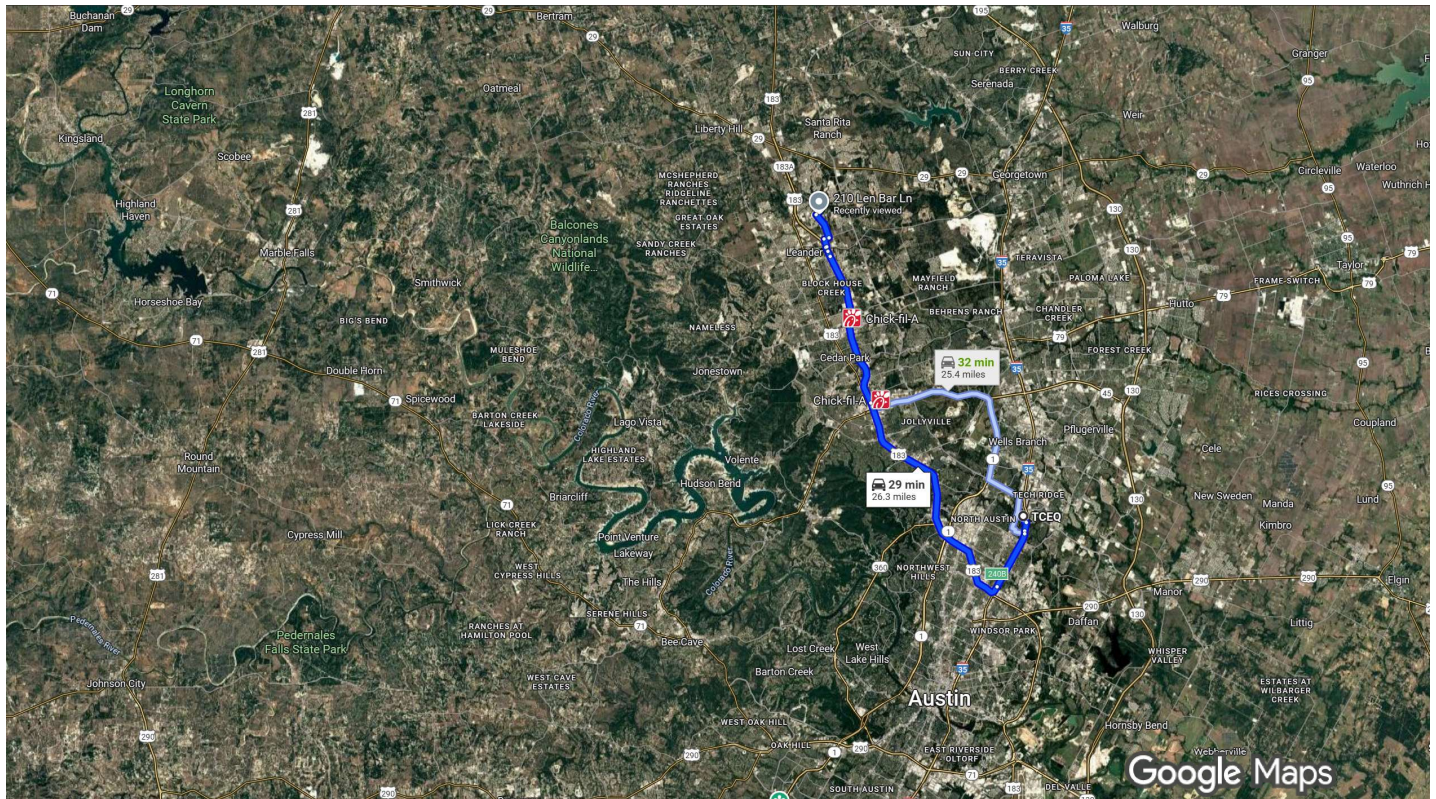
Administrative Information

- 61. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.
- 62. ☒ Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
- 63. ☒ The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.
- ☒ The Temporary Stormwater Section (TCEQ-0602) is included with the application.



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Attachment A-Road Map



Map data ©2025, Map data ©2025 Google 2 mi

TCEQ
12100 Park 35 Cir, Austin, TX 78753

 This route has tolls.

Get on I-35 S from Park 35 Cir and S I-35 Frontage Rd

- 3 min (1.0 mi)
- ↑ 1. Head west toward Park 35 Cir
- 177 ft
- ↶ 2. Turn left
- 371 ft
- ↷ 3. Turn right toward Park 35 Cir
- 377 ft
- ↷ 4. Turn right onto Park 35 Cir
- 0.3 mi
- ↷ 5. Turn right onto S I-35 Frontage Rd
- 0.4 mi
- ⬆ 6. Use the left lane to take the ramp onto I-35 S
- 0.1 mi

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

- 21 min (23.0 mi)
7. Merge onto I-35 S
-
- 2.9 mi
8. Take exit 240B to merge onto US-183 N toward Lampasas
- ⚠ Toll road
-
- 12.2 mi
9. Continue onto 183A Toll Rd N
- ⚠ Toll road
-
- 7.6 mi
10. Take the exit toward RM 2243/Hero Way
-
- 0.3 mi

Take Co Rd 270 to Len Bar Ln

-
- 5 min (2.3 mi)
11. Merge onto 183A Frontage Rd
-
- 0.2 mi
12. Turn right onto Ranch to Market Rd 2243
-
- 322 ft
13. Turn left onto Co Rd 269
-
- 0.4 mi
14. Turn right onto Hero Way
-
- 0.2 mi
15. Turn left onto Co Rd 270
-
- 1.3 mi
16. Turn right onto Len Bar Ln
- 📍 Destination will be on the right
-
- 0.1 mi

200 Len Bar Ln

Leander, TX 78641



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Attachment B-USGS Quadrangle Map

Edwards Aquifer Viewer Custom Print



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TCEQ_EDWARDS_OFFICIAL_MAPS

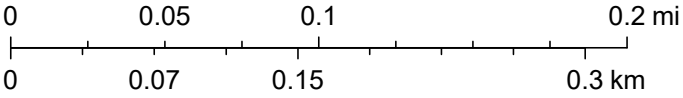
7.5 Minute Quad Grid

TX Counties

Edwards Aquifer Label

World_Hillshade

1:4,582



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, TCEQ, Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,



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Attachment C-Project Narrative

Attachment C: Project Narrative

The proposed Len Bar Business Park Development is located at 200 Len Bar Lane, Leander, TX 78641. The 5.74-acre property is located within the ETJ limits of the City of Leander. The property is located within the Edwards Aquifer Contributing Zone and a portion of the property is located within the FEMA floodplain based on FIRM Panel 48491C0455F effective date 12/20/2019.

In accordance with 30 TAC Chapter 213, this CZP application is being submitted for the proposed development to occur onsite.

The site lies within the South Fork San Gabriel River watershed. Since the project is located over the Edwards Contributing Zone, a Geologic Assessment was not conducted and is not required by 30 TAC 213 regulations. Therefore, no naturally occurring sensitive features are known to exist on the site. 30 TAC 213(f)(2) only applies to projects over the Edwards Recharge Zone.

The property is currently primarily undeveloped with a driveway apron to the site. There is a proposed Batch Detention Pond that has been designed to accept and treat the stormwater from the proposed development. The proposed development consists of 3 commercial buildings, associated parking, drainage facilities, and utility infrastructure.

The existing development currently contains an existing concrete driveway apron, consisting of 0.20 acres of impervious cover. New development will disturb approximately 5.74 acres, of which, 2.89 acres is proposed impervious cover. Based on the total site acreage of 5.74 acres, the total impervious cover percentage with the proposed improvements is 50.35%.

The proposed permanent BMP to treat the impervious cover is one (1) Batch Detention Pond adhering to TCEQ's Technical Guidance Manual (TGM) RG-348. Using the TCEQ spreadsheet, the Batch Detention Pond has a treatment removal efficiency of 91%.

Temporary stormwater BMPs will include a stabilized construction entrance, concrete washout, and silt fence.

Wastewater flows generated by the project will be treated by an onsite septic system.

Water will be provided by Aqua Texas, Inc.

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_{M,TOTAL PROJECT} = 27.2(A_{IN} \times P)$

where:

$L_{M,TOTAL PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
 A_{IN} = 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 =	5.74	acres
Predevelopment impervious area within the limits of the plan =	0.20	acres
Total post-development impervious area within the limits of the plan =	2.89	acres
Total post-development impervious cover fraction =	0.50	
P =	32	inches

 $L_{M,TOTAL PROJECT}$ = 2341 lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area =	3.53	acres
Predevelopment impervious area within drainage basin/outfall area =	0.16	acres
Post-development impervious area within drainage basin/outfall area =	2.85	acres
Post-development impervious fraction within drainage basin/outfall area =	0.81	
$L_{M,THIS BASIN}$ =	2341	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Batch Detention**
 Removal efficiency = **91** percent

Aqualogic Cartridge Filter
 Bioretention
 Coritech StormFilter
 Constructed Wetland
 Extended Detention
 Grassy Swale
 Retention / Irrigation
 Sand Filter
 Stormceptor
 Vegetated Filter Strips
 Vortechs
 Wet Basin
 Wet Vault
 Batch Detention

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

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

where:

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

A_c =	3.53	acres
A_i =	2.85	acres
A_p =	0.68	acres
L_R =	2882	lbs

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

Desired $L_{M,THIS BASIN}$ = 2341 lbs.

F = 0.81

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

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth =	1.12	inches
Post Development Runoff Coefficient =	0.63	
On-site Water Quality Volume =	9101	cubic feet

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

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

Storage for Sediment =	1820	
Total Capture Volume (required water quality volume(s) x 1.20) =	10921	cubic feet

0.25 Acre-ft

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

7. Retention/Irrigation System

Designed as Required in RG-348

Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate =	0.1	in/hr	Enter determined permeability rate or assumed value of 0.1
Irrigation area =	NA	square feet	
	NA	acres	

8. Extended Detention Basin System

Designed as Required in RG-348

Pages 3-46 to 3-51

Required Water Quality Volume for extended detention basin = NA cubic feet

9. Filter area for Sand Filters

Designed as Required in RG-348

Pages 3-58 to 3-63

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin =	NA	cubic feet
Minimum filter basin area =	NA	square feet
Maximum sedimentation basin area =	NA	square feet
Minimum sedimentation basin area =	NA	square feet

For minimum water depth of 2 feet
 For maximum water depth of 8 feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins =	NA	cubic feet
Minimum filter basin area =	NA	square feet
Maximum sedimentation basin area =	NA	square feet
Minimum sedimentation basin area =	NA	square feet

For minimum water depth of 2 feet
 For maximum water depth of 8 feet



10/30/25

10. Bioretention System Designed as Required in RG-348 Pages 3-63 to 3-65

Required Water Quality Volume for Bioretention Basin = **NA** cubic feet

11. Wet Basins Designed as Required in RG-348 Pages 3-66 to 3-71

Required capacity of Permanent Pool = **NA** cubic feet Permanent Pool Capacity is 1.20 times the WQV
Required capacity at WQV Elevation = **NA** cubic feet Total Capacity should be the Permanent Pool Capacity plus a second WQV.

12. Constructed Wetlands Designed as Required in RG-348 Pages 3-71 to 3-73

Required Water Quality Volume for Constructed Wetlands = **NA** cubic feet

13. AquaLogic™ Cartridge System Designed as Required in RG-348 Pages 3-74 to 3-78

** 2005 Technical Guidance Manual (RG-348) does not exempt the required 20% increase with maintenance contract with AquaLogic™.

Required Sedimentation chamber capacity = **NA** cubic feet
Filter canisters (FCs) to treat WQV = **NA** cartridges
Filter basin area (RIA_F) = **NA** square feet

14. Stormwater Management StormFilter® by CONTECH

Required Water Quality Volume for Contech StormFilter System = **NA** cubic feet

THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPs / LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES

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

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A = 1.87 acres
Impervious Cover in Drainage Area = 0.15 acres
Rainfall intensity = i = 1.1 in/hr
Swale Slope = 0.01 ft/ft
Side Slope (z) = 3
Design Water Depth = y = 0.33 ft
Weighted Runoff Coefficient = C = 0.36

A_{CS} = cross-sectional area of flow in Swale = 2.09 sf
P_W = Wetted Perimeter = 7.37 feet
R_H = hydraulic radius of flow cross-section = A_{CS}/P_W = 0.28 feet
n = Manning's roughness coefficient = 0.2

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

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

$b = \frac{0.134 \times Q}{y^{0.57} S^{0.5}} \cdot zy$ = 5.26 feet

Q = CIA = 0.75 cfs

To calculate the flow velocity in the swale:

V (Velocity of Flow in the swale) = Q/A_{CS} = 0.36 ft/sec

To calculate the resulting swale length:

L = Minimum Swale Length = V (ft/sec) * 300 (sec) = 107.24 feet

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters must be modified and the solver rerun.

15B. Alternative Method using Excel Solver

Design Q = CIA = 0.75 cfs
Manning's Equation Q = Swale Width² = 0.76 cfs
Error 1 = -0.01

Instructions are provided to the right (green comments).

Flow Velocity = 0.36 ft/s
Minimum Length = 107.24 ft

Instructions are provided to the right (blue comments).

Design Width = 6 ft
Design Discharge = 0.76 cfs
Design Depth = 0.33 ft
Flow Velocity = 0.32 cfs
Minimum Length = 97.48 ft
Error 2 = -0.01

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters may be modified and the solver rerun.
If any of the resulting values still do not meet the design requirement set forth in RG-348, widening the swale bottom value may not be possible.

16. Vegetated Filter Strips Designed as Required in RG-348 Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips.
The 80% removal is provided when the contributing drainage area does not exceed 72 feet (direction of flow) and the sheet flow leaving the impervious cover is directed across 15 feet of engineered filter strips with maximum slope of 20% or across 50 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20%.

If vegetative filter strips are proposed for an interim permanent BMP, they may be sized as described on Page 3-56 of RG-348.

17. Wet Vaults Designed as Required in RG-348 Pages 3-30 to 3-32 & 3-79

Required Load Removal Based upon Equation 3.3 = **NA** lbs

First calculate the load removal at 1.1 in/hour

RG-348 Page 3-30 Equation 3.4: Q = CIA

C = runoff coefficient for the drainage area = 0.65 C = Runoff Coefficient = 0.546 (IC)² + 0.328 (IC) + 0.03
i = design rainfall intensity = 1.1 in/hour
A = drainage area in acres = 1 acres

Q = flow rate in cubic feet per second = 0.72 cubic feet/sec

RG-348 Page 3-31 Equation 3.5: V_{OR} = Q/A

Q = Runoff rate calculated above = 0.72 cubic feet/sec
A = Water surface area in the wet vault = 150 square feet

V_{OR} = Overflow Rate = 0.00 feet/sec

Percent TSS Removal from Figure 3-1 (RG-348 Page 3-31) = 53 percent

Load removed by Wet Vault = #VALUE! lbs

If a bypass occurs at a rainfall intensity of less than 1.1 in/hours

Calculate the efficiency reduction for the actual rainfall intensity rate

Actual Rainfall Intensity at which Wet Vault Bypass Occurs = 0.5 in/hour

Fraction of rainfall treated from Figure 3-2 RG-348 Page 3-32 = 0.75 percent
Efficiency Reduction for Actual Rainfall Intensity = 0.83 percent

To solve for bottom width of the trapezoidal swale (b) using the Excel solver:
Excel can simultaneously solve the "Design Q" (C217) vs "Manning's Q" (C219) by varying the "Swale Width" (C220).
The required "Swale Width" occurs when the "Design Q" = "Manning's Q"

First, highlight Cell F219 (Error 1 value). The equation showing in the fx screen for Cell F219 should be "= \$C\$217-\$C\$219"
Then click on "Tools" and "Solver". The "Solver Parameters" screen pops up.
The value in the "Set Target cell" should be \$F\$219 "Error 1"
The value in the "By Changing Cells" should be \$C\$220 "Swale Width"
Click on solve.

The resulting "Swale Width" must be less than 10 feet to meet the requirements of the TGM.
If the resulting "Swale Width" exceeds 10 feet then the design parameters must be revised and the solver run again.

If there is not the option for "Solver" under "Tools"
Click on "Tools" and "Add Ins" and then check "Solver Add-in"
Then proceed as instructed above.

If you would like to increase the bottom width of the trapezoidal swale (b):
Excel can simultaneously solve the "Design Q" (C217) vs "Design Discharge" (C232) by varying the "Design Depth" (C233).
The required "Design Depth" for a 10-foot bottom width occurs when the "Design Q" (C217) = the "Design Discharge" (C232).

First set the desired bottom width in Cell C231.
Highlight Cell F232. The equation showing in the fx screen for Cell F232 should be "= \$C\$217-\$C\$232"

Click on "Tools" and "Solver". The "Solver Parameters" screen pops up.
The value in the "Set Target cell" should be \$F\$232 "Error 2"
The value in the "By Changing Cells" should be \$C\$233 "Design Depth"
Click on solve.

The resulting "Design Depth" must be equal to or less than 0.33 feet to meet the requirements of the TGM.
If the resulting "Design Depth" exceeds 0.33 feet then the design parameters must be revised and the solver run again.

First set the desired bottom width in Cell C231.
Highlight Cell F232. The equation showing in the fx screen for Cell F232 should be "= \$C\$217-\$C\$232"
Click on "Tools" and "Solver". The "Solver Parameters" screen pops up.
The value in the "Set Target cell" should be \$F\$232 "Error 2"
The value in the "By Changing Cells" should be \$C\$233 "Design Depth"
Click on solve.

The resulting "Design Depth" must be equal to or less than 0.33 feet to meet the requirements of the TGM.
If the resulting "Design Depth" exceeds 0.33 feet then the design parameters must be revised and the solver run again.



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Attachment D-Factors Affecting Surface Water Quality

Attachment D: Factors Affecting Surface Water Quality

The list below are potential sources of pollution that may be reasonably expected to impact the quality of stormwater runoff from the site during construction.

- Hydrocarbons from asphalt paving construction
- Oil, fuel, grease and hydraulic fluid from construction equipment and automobiles
- Soil erosion due to site clearing, grading and demolition activities
- Trash, litter and construction debris from workers and construction activities
- Concrete truck washout
- Concrete/masonry
- Fertilizers
- Cleaning solvents

The list below are potential sources of pollution that may be reasonably expected to impact the quality of stormwater runoff from the site after construction or after development.

- Trash and litter typical of daily use from customers and tenants
- Oil, fuel, grease and hydraulic fluid from vehicles parked/traveling onsite
- Dirt and dust from landscape areas and vehicles
- Fertilizers
- Cleaning solvents





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Attachment E-Volume and Character of Stormwater

Attachment E: Volume and Character of Stormwater

The Len Bar Business Park Development site will generate stormwater typical of commercial development. Runoff will increase as a result of the development for all storm events. However, the site features a proposed Batch Detention Basin that will mitigate this increase in flows and flows ultimately leaving the tract to be less than or equal to existing conditions. for the 100-year storm. The runoff coefficient Curve Number (CN) changes from 80 to 95 for the project. Values are based on the SCS Method using Curve Number coefficients per the City of Austin drainage criteria manual.



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Attachment F-Suitability Letter from Authorized Agent

J. Terron Evertson, PE, DR, CFM

July 26, 2023

Big Chief Storage LLC
250 North Bagdad Road
Leander, Texas 78641

RE: 200 Len Bar Lane, Leander, Texas 78641
South San Gabriel Ranches, Lot 7 E/PT, ACRES 5.74

The above referenced property is located within the Edwards Aquifer Contributing Zone.

Based on the surrounding subdivisions and the soil survey for Williamson County and planning material received, this office is able to determine that the soil and site conditions of this lot is suitable to allow the use of on-site sewage facilities (OSSF). It should be noted that this office has not actually studied the physical properties of this site. Site specific conditions such as OSSF setbacks, recharge features, drainage, soil conditions, etc..., will need taken into account in planning any OSSF.

These OSSF's will have to be designed by a professional engineer or a registered sanitarian. An Edwards Aquifer protection plan shall be approved by the appropriate TCEQ regional office before an authorization to construct an OSSF may be issued. The owner will be required to inform each prospective buyer, lessee or renter of the following in writing:

- That an authorization to construct shall be required before an OSSF can be constructed in the subdivision;
- That a notice of approval shall be required for the operation of an OSSF;
- Whether an application for a water pollution abatement plan as defined in Chapter 213 has been made, whether it has been approved and if any restrictions or conditions have been placed on the approval.

If this office can be of further assistance, please do not hesitate to call.

Sincerely,



Christopher Moreno, OS 35962
Williamson County - OSSF



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Attachment G-Alternative Secondary Containment Methods N/A



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Attachment H-AST Containment Structure Drawings N/A



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Attachment I-20% of Less Impervious Cover Declaration N/A



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Attachment J-BMPs for Upgradient Stormwater

Attachment J: BMPs for Upgradient Stormwater

There is one (1) existing offsite drainage area that flows onto the site. No permanent BMPs are required to prevent pollution. Offsite drainage area OS 1 is not routed through the proposed Batch Detention Pond.

All temporary BMPs are shown on the plan set and are describe more fully in the SWPPP in Section 3 of this application.



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Attachment K-BMPs for On-site Stormwater

Attachment K: BMPs for On-site Stormwater

Approximately 2.89 acres of impervious cover (50.35% of the 5.74-acre site) are proposed for construction in this CZP. A proposed Batch Detention Pond is a PBMP for the site and has been designed in accordance with TCEQ's Technical Guidance Manual (TGM) RG-348.

Batch Detention ponds capture and temporarily detain the water quality volume from a storm event, for a period of 12-48 hours, using an automated controller and valve. The batch detention outfall details and logic controls can be found on the attached Construction Drawings, reference the Batch Detention Pond Detail Sheets.





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Attachment L-BMPs for Surface Streams N/A



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Attachment M-Construction Plans

LEGAL DESCRIPTION
BEING A TRACT CONTAINING 5.74 ACRES OF LAND, MORE OR LESS, OUT OF THE L.B. JOHNSON SURVEY, ABSTRACT NO. 350, WILLIAMSON COUNTY, TEXAS AND A PART OF TRACT 7, SOUTH SAN GABRIEL RANCHES, ACCORDING TO THE MAP OR PLAT THEREFORE RECORDED IN CABINET B, SLIDE 86, PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS (O.P.R.W.C.)

CONTACT INFORMATION

OWNER / DEVELOPER:

A-A-A STORAGE DRIPPING SPRINGS LLC
4203 SPINNAKER CV
AUSTIN, TX 78731
CONTACT: JOHN MUHICH
PHONE: (512) 657-6789

ENGINEER:

HILL COUNTRY CIVIL, LLC
391 LANDA ST. STE. 1204
NEW BRAUNFELS, TX 78070
CONTACT: ROSS CORDER, PE
PHONE: (210) 378-4953
EMAIL: ROSS@HILLCOUNTRYCIVIL.COM

SURVEYOR:

ALL STAR LAND SURVEYING
9020 ANDERSON MILL RD
AUSTIN, TX 78729
CONTACT: EDWARD RUMSEY
PHONE: (512) 249-8149

SITE INFORMATION

PROJECT ADDRESS

200 LEN BAR LANE
LEANDER, TX 78641

WATERSHED

SOUTH FORK SAN GABRIEL RIVER

FLOOD PLAIN NOTE

A PORTION OF THIS PROPERTY LIES WITHIN THE 100-YEAR FLOODPLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAPS F.I.R.M. MAP No. 48491C0455F, DATED DECEMBER 20, 2019.

CONTRIBUTING PLAN ZONE NOTE

THIS PROPERTY IS LOCATED OVER THE EDWARDS AQUIFER CONTRIBUTING ZONE. A PROPOSED CONTRIBUTING ZONE PLAN IS REQUIRED FOR THE PROPOSED IMPROVEMENTS AND WILL BE PERMITTED WITH THE TCEQ.

WATER NOTE

THE PROJECT SITE IS SERVED BY AQUA TEXAS, INC.

WASTEWATER NOTE

ALL WASTEWATER GENERATED BY THE SITE IS TREATED BY ONSITE OSSF TREATMENT SYSTEM DESIGNED BY OTHERS AND PERMITTED THROUGH WILLIAMSON COUNTY.

WILLIAMSON COUNTY PERMIT No.:

Professional Engineer's Certification

I, _____, do hereby certify that the information contained on this site plan complies with the regulations adopted by Williamson County, Texas.

Reviewed for Compliance with Country Requirements 2025.

Adam D. Boatright, P.E. _____ Date
Williamson County Engineer

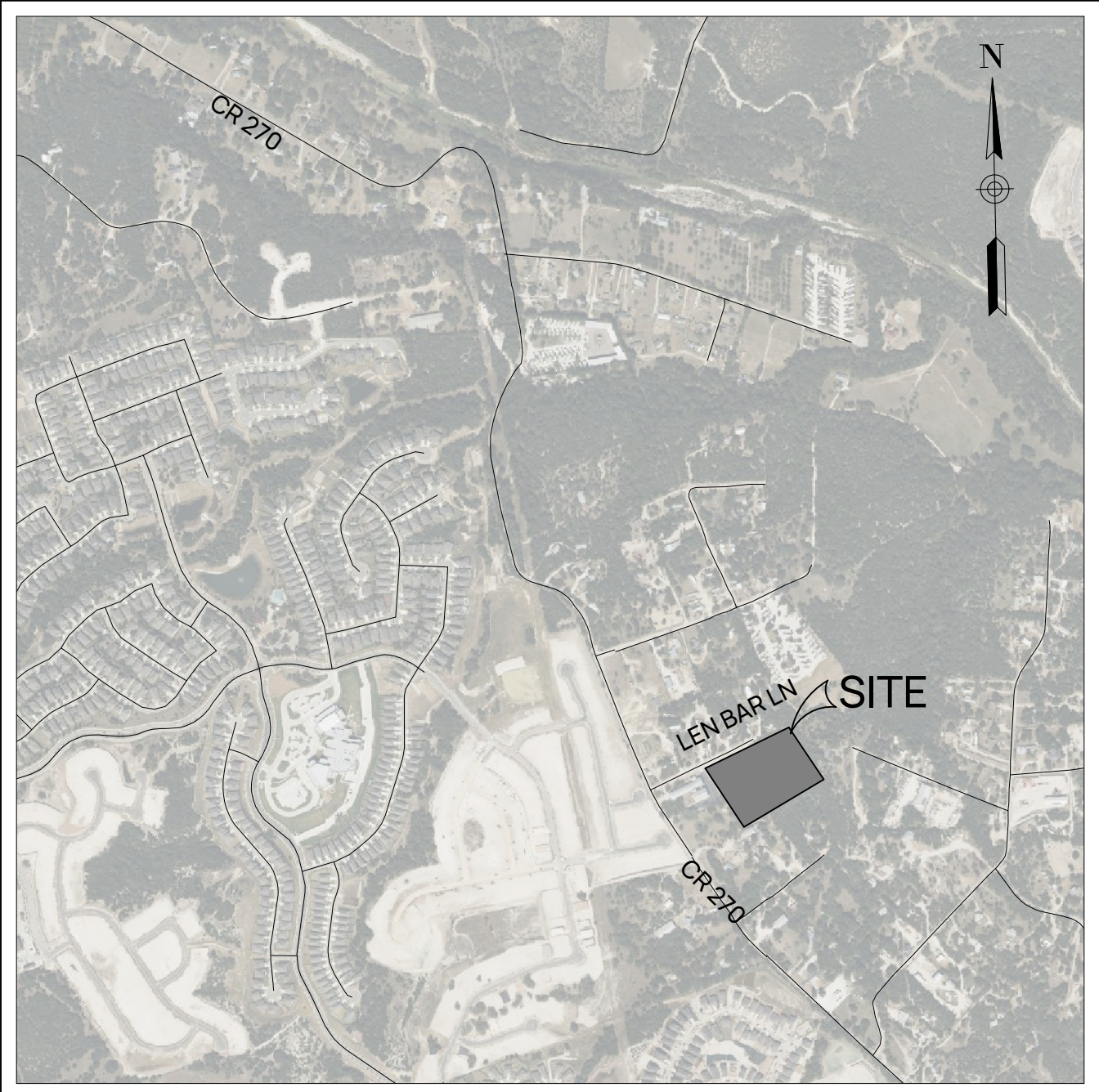
HCC JOB NUMBER: 041-06

CIVIL CONSTRUCTION SITE PLANS

FOR

LEN BAR BUSINESS PARK

LEANDER, TX



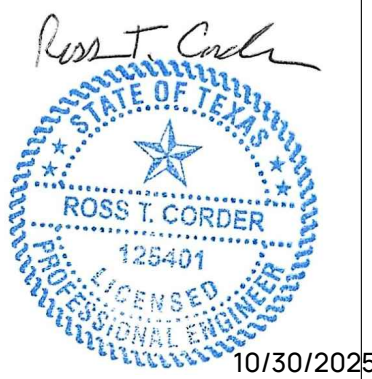
LOCATION MAP
1"=1,000'

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL CONSTRUCTION NOTES
3	SOUTH SAN GABRIEL RANCHES PLAT 1 OF 2
4	SOUTH SAN GABRIEL RANCHES PLAT 2 OF 2
5	EXISTING CONDITIONS AND DEMOLITION PLAN
6	EROSION CONTROL PLAN
7	EROSION CONTROL DETAILS
8	SITE PLAN
9	OVERALL GRADING PLAN
10	DETENTION POND PLAN
11	POND DETAILS
12	BATCH POND DETAILS
13	EXISTING DRAINAGE AREA MAP
14	PROPOSED DRAINAGE AREA MAP
15	DRAINAGE CALCULATIONS
16	OVERALL UTILITY CONNECTION PLAN
17	UTILITY DETAILS
18	SITE DETAILS (1 OF 2)
19	SITE DETAILS (2 OF 2)

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT. THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS. SPECIFICALLY, CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

CAUTION!
CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.
DIG TESS
CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

Hill Country Civil
Engineers • Consultants
Texas Firm License No. F-29812
391 Landa Street, Ste. 1204, New Braunfels, TX 78130
Phone: (210) 378-4953
Fax: (210) 378-4953
www.hillcountrycivil.com



App.		Revisions	
No.	Date	No.	Date

LEN BAR BUSINESS PARK

200 Len Bar Lane,
Leander, Williamson County, TX

HCC JOB No. 041-06

DRAWN BY.: RTC

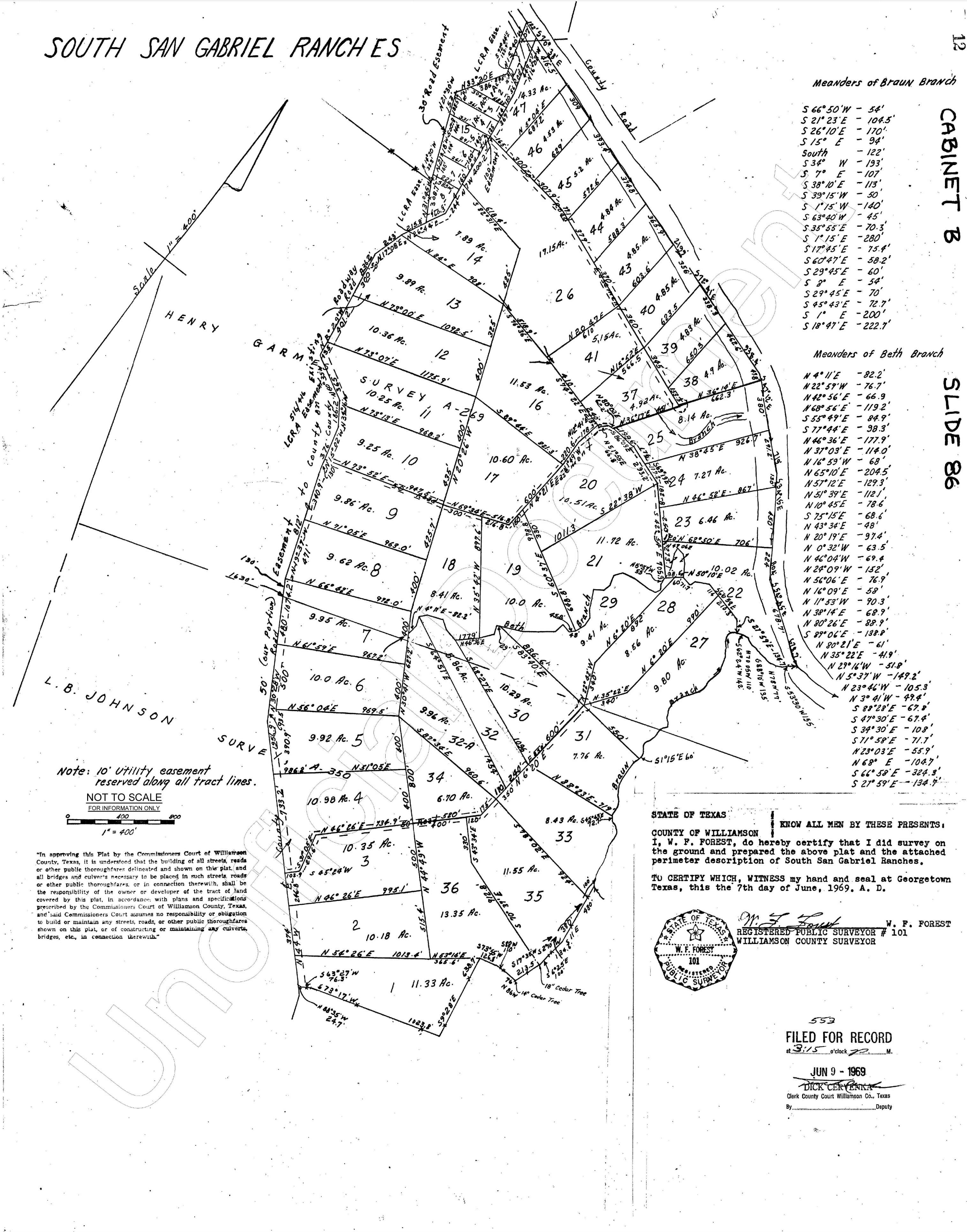
COVER SHEET

SHEET No.

1

OF 19

LEGAL DESCRIPTION
BEING A TRACT CONTAINING 5.74 ACRES OF LAND, MORE OR LESS, OUT OF THE L.B. JOHNSON SURVEY, ABSTRACT NO. 350, WILLIAMSON COUNTY, TEXAS AND A PART OF TRACT 7, SOUTH SAN GABRIEL RANCHES, ACCORDING TO THE MAP OR PLAT THEREFORE RECORDED IN CABINET B, SLIDE 86, PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS (O.P.R.W.C.)



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Hill Country Civil
Engineers • Consultants
3711 Landis Street, Ste. 102L, New Braunfels, TX 78130
Phone: 817-499-4400
Fax: 817-499-4403
www.hillcountrycivil.com

ROSS T. CORDER
125401
10/30/2025

LEN BAR BUSINESS PARK
200 Len Bar Lane,
Leander, Williamson County, TX
HCC JOB No. 04-106
DRAWN BY: RTC

SOUTH SAN GABRIEL RANCHES
PLAT 1 OF 2

SHEET No.
3
OF 19

C:\HCC\OneDrive - Hill Country Civil\Projects\041 AAA Storage\08 AAA Len Ben\1 - CAD\2 - Sheets\041-08 CIVR.dwg

553 SLIDE 87

KNOW ALL MEN BY THESE PRESENTS:

WITNESS MY HAND this the 22nd day of May A. D. 1969.

COUNTY OF WILLIAMSON

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 22nd day of May
A. D. 1969.

KNOW ALL MEN BY THESE PRESENTS:

WITNESS OUR HANDS this the 22nd day of May A. D. 1969.

COUNTY OF WILLIAMSON

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 22nd day of May A. D.
1969.

COUNTY OF WILLIAMSON } KNOW ALL MEN BY THESE PRESENTS:
I, W. F. FOREST, do hereby certify that I did prepare the above description
and made survey on the ground.
TO CERTIFY WHICH, WITNESS my hand and seal at Georgetown, Texas this the
7th day of June, 1969. A. D.

ADOPTED AND APPROVED this the 9th. day of June 1969 A. D.

SAM V. STONE
SAM V. STONE COUNTY JUDGE

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 9th. day of
June 1969. A. D.

Filed for record June 9, 1969, at 3:15 o'clock P. M.
Recorded June 10, 1969, at 10:45 o'clock A. M.


Dick Cervenka,
County Clerk, Williamson
County, Texas

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS, SPECIFICALLY, CONTRACTOR AND/OR RETAINED ENGINEER/SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT

Ross T. Corder



10/30/2021

[illegible]

LEN BAR BUSINESS PARK

200 Len Bar Lane,
eander, Williamson County, TX

DRAWN BY.: RTC

HCC JOB No.:041-06

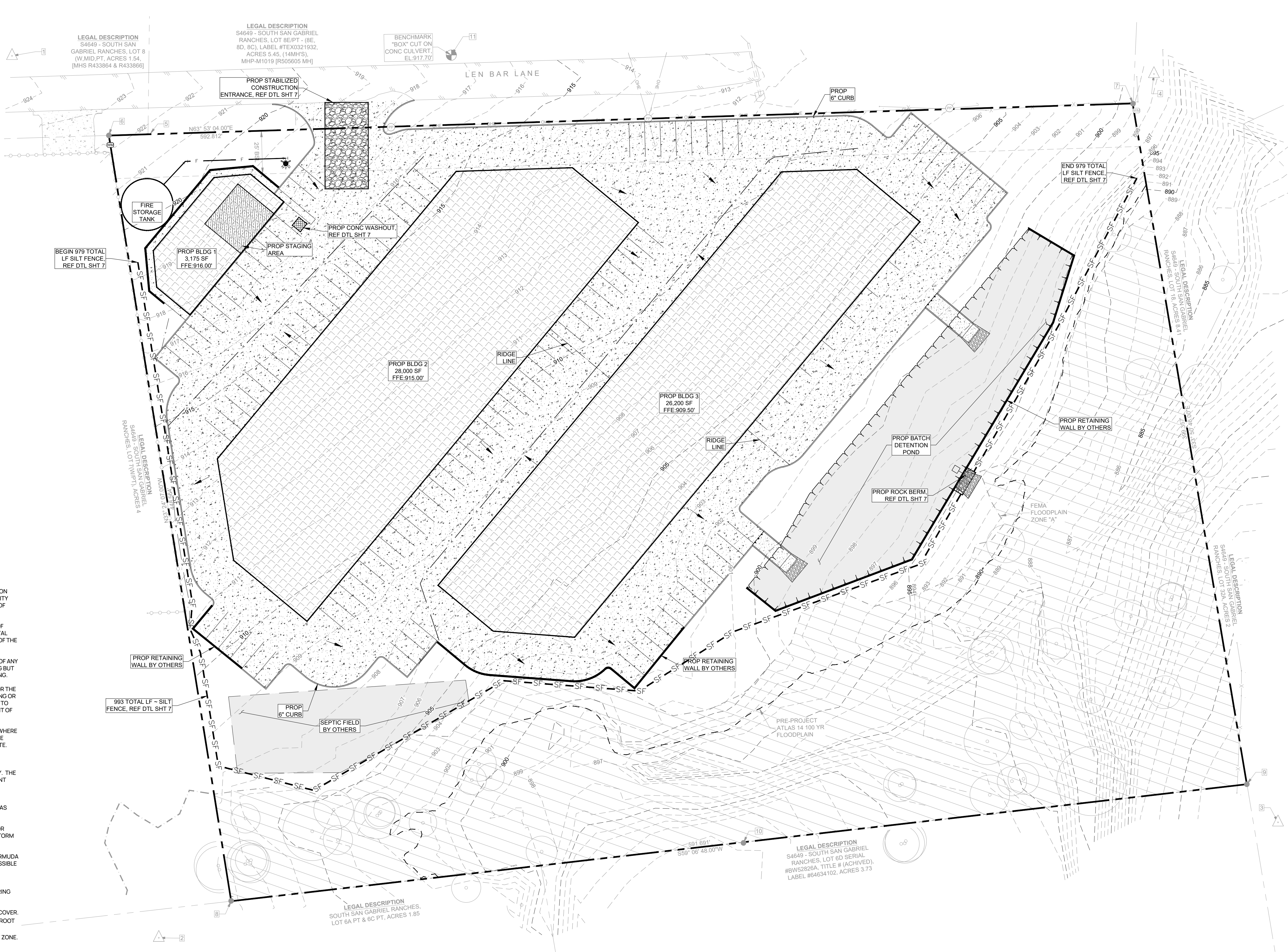
SOUTH SAN GABRIEL RANCHES
PLAT 2 OF 2

SHEET No.

4

OF 19

LEGAL DESCRIPTION
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01530

0

15

30

60

SCALE (FEET)

LEGEND

●

IRF

IRON ROD FOUND (SIZE NOTED)

△

CONTROL POINT

⊕

BENCHMARK

⊕

EXIST WATER METER

⊕

EXIST POWER POLE

⊕

EXIST SIGN

⊕

EXIST MAILBOX

⊕

EXIST GUY ANCHOR

PROPERTY LINE

ADJOINER LINE

EXIST CHAINLINK FENCE

EXIST BARBED WIRE FENCE

EXIST EDGE OF PAVEMENT

EXIST EASEMENT

BUILDING SETBACK LINE (BSL)

EXIST OVERHEAD UTILITY

EXIST MAJOR CONTOUR

EXIST MINOR CONTOUR

○

EXIST TREE

PROP MAJOR CONTOUR

PROP MINOR CONTOUR

→

PROP FLOW ARROW

PROP DRAINAGE SWALE

RIDGE LINE

PROP BUILDING

HEAVY DUTY CONC PAVEMENT

SILT FENCE

STAGING AREA

STABILIZED CONSTRUCTION ENTRANCE

CONCRETE WASHOUT PIT

TOP OF POND

EROSION CONTROL PLAN NOTES:

- CONTRACTOR SHALL FILE STORM WATER POLLUTION PREVENTION PLAN WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND POST A SITE NOTICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL FILE THE NOTICE OF INTENT AND NOTICE OF TERMINATION WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PRIOR TO START OF CONSTRUCTION AND AT THE END OF THE PROJECT.
- ALL STRUCTURAL BMP'S SHALL BE INSTALLED PRIOR TO START OF ANY DISTURBANCE OR CONSTRUCTION ACTIVITY ON SITE INCLUDING BUT NOT LIMITED TO EXCAVATION, CLEARING, GRUBBING, OR GRADING.
- CONTRACTOR SHALL INSTALL BMP'S AS REQUIRED BY PHASE FOR THE PROJECT OR AS SPECIFICALLY INDICATED PER PLAN. ALL PHASING OR ADJUSTMENTS TO THE EROSION CONTROL PLAN SHALL TAKE IN TO ACCOUNT UP-GRADIENT STORM WATER FLOWS FOR PLACEMENT OF BMP'S.
- CONTRACTOR SHOULD IN BEST EFFORT, ONLY DISTURB AREAS WHERE CONSTRUCTION ACTIVITY IS REQUIRED IN AN EFFORT TO REDUCE POTENTIAL OF STORM WATER POLLUTION RUNOFF FROM THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND INSPECTING STRUCTURAL BMP'S DAILY AND ESPECIALLY AFTER STORM EVENTS TO ENSURE BMP'S ARE FUNCTIONING PROPERLY. THE CONTRACTOR MAY MODIFY CONTROLS AS REQUIRED TO PREVENT SEDIMENT RUNOFF DOWNSTREAM IMPACTS.
- CONTRACTOR SHALL USE DUST CONTROL MEASURES DURING CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS REQUIRED.
- CONTRACTOR SHALL CLEAN UP ANY SEDIMENTATION RUNOFF OR SPOILS THAT MIGRATE ONTO ADJACENT ROADWAYS AFTER A STORM EVENT OR AS REQUIRED BY THE LOCAL INSPECTOR.
- CONTRACTOR SHALL SEED OR SOO DISTURBED AREAS WITH BERMUDA GRASS OR SOME OTHER FORM OF HARD GRASS AS SOON AS POSSIBLE TO AVOID SOIL RUNOFF AFTER CONSTRUCTION IN THAT AREA IS COMPLETED.
- TREES PROPOSED TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION AND MUST MEET THE FOLLOWING CRITERIA:
 - MINIMUM OF 50% OF THE CRITICAL ROOT ZONE MUST BE PRESERVED AT NATURAL GRADE, WITH NATURAL GROUND COVER.
 - CUT OR FILL IS LIMITED TO 4-INCHES FROM THE CRITICAL ROOT ZONE TO THE CRITICAL ROOT ZONE.
 - NO CUT OR FILL IS PERMITTED WITHIN THE CRITICAL ROOT ZONE.
- BMP'S MAY ONLY BE REMOVED ONCE THE SITE ACHIEVES 80% RE-VEGETATION IN DISTURBED AREAS.

BENCH MARK, CONTROL POINTS, IRON RODS FOUND

Point #	Elevation	Northing	Easting	Description
1	924.35	10192759.56	3080101.66	GBI CP
2	909.37	10192329.61	3080389.19	GBI CP
3	908.45	10192657.25	3080951.94	GBI CP
4	898.27	10193022.21	3080708.22	GBI CP
5	921.54	10192751.19	3080193.07	FIR5
6	921.97	10192740.71	3080171.69	FIR5 LEANING
7	899.75	10193001.58	3080704.24	FIR4
8	907.27	10192366.32	3080418.57	FIR4
9	906.96	10192669.91	3080926.42	FIP 1"
10	904.31	10192519.00	3080674.94	FIR4
11	917.58	10192864.67	3080333.16	BM "BOX" ON CULVERT

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES:

- INSTALLATION OF TEMPORARY BMP'S.
- SITE CLEARING AND GRUBBING.
- SITE DEMOLITION ACTIVITIES.
- ROUGH SITE GRADING AND SUBGRADE PREPARATION.
- STORMWATER FACILITIES CONSTRUCTED.
- UTILITY CONSTRUCTION.
- FINAL SITE GRADING AND SUBGRADE PREPARATION.
- PAVEMENT INSTALLATION, INCLUDING BASE MATERIALS AND CONCRETE/ASPHALT PAVEMENT AND CURBS.
- BUILDING PAD CONSTRUCTION.
- BUILDING CONSTRUCTION.
- LANDSCAPING AND IRRIGATION CONSTRUCTION.
- SITE STABILIZATION, REVEGETATION OF DISTURBED AREAS.
- SITE CLEANUP AND REMOVAL OF TEMPORARY BMP'S.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS. SPECIFICALLY, CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

Hill Country Civil

Engineers • Consultants

3701 Len Bar Street, Ste. 100, New Braunfels, TX 78130

Phone: 817-255-4400

Fax: 817-255-4403

www.hillcountrycivil.com

ROSS T. CORDER

125407

10/30/2025

App.

No.

Date

Revisions

LEN BAR BUSINESS PARK

200 Len Bar Lane,
Leander, Williamson County, TX

HCC JOB No. 041-06

DRAWN BY.: RTC

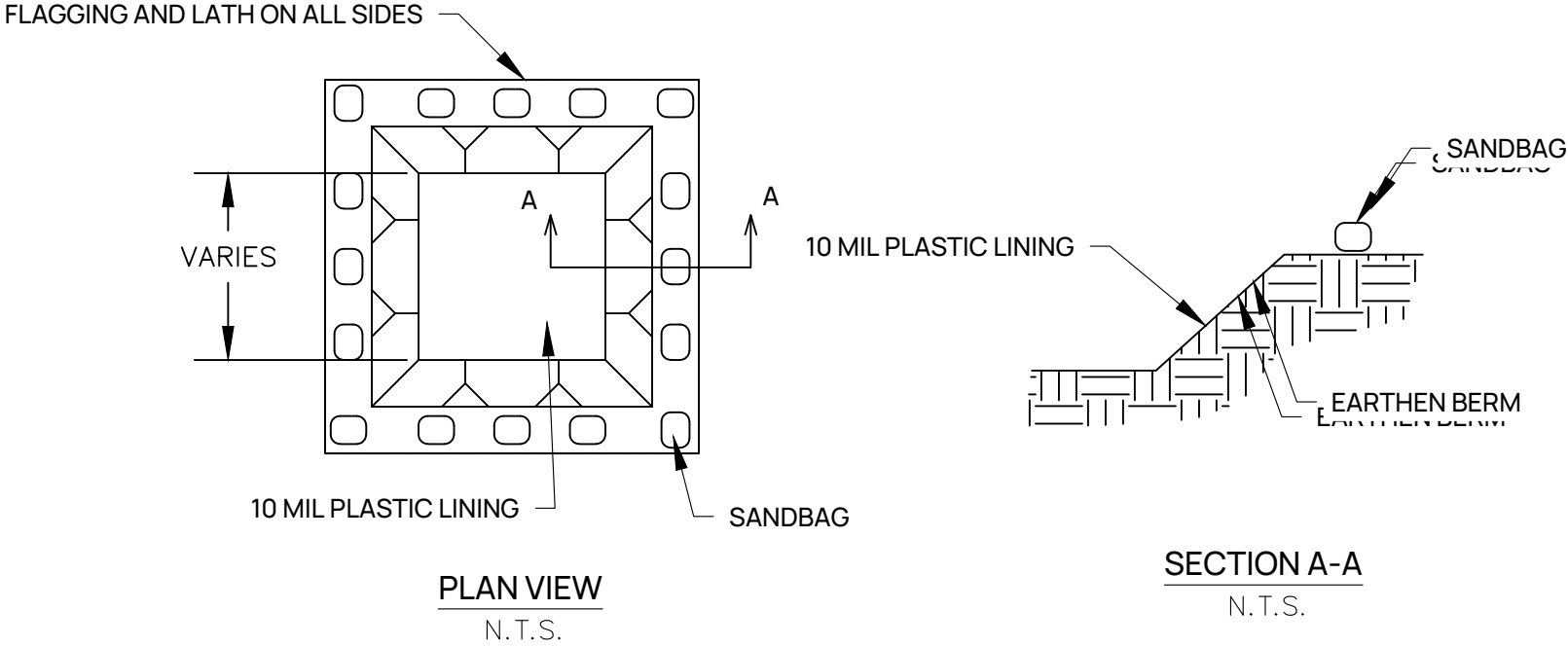
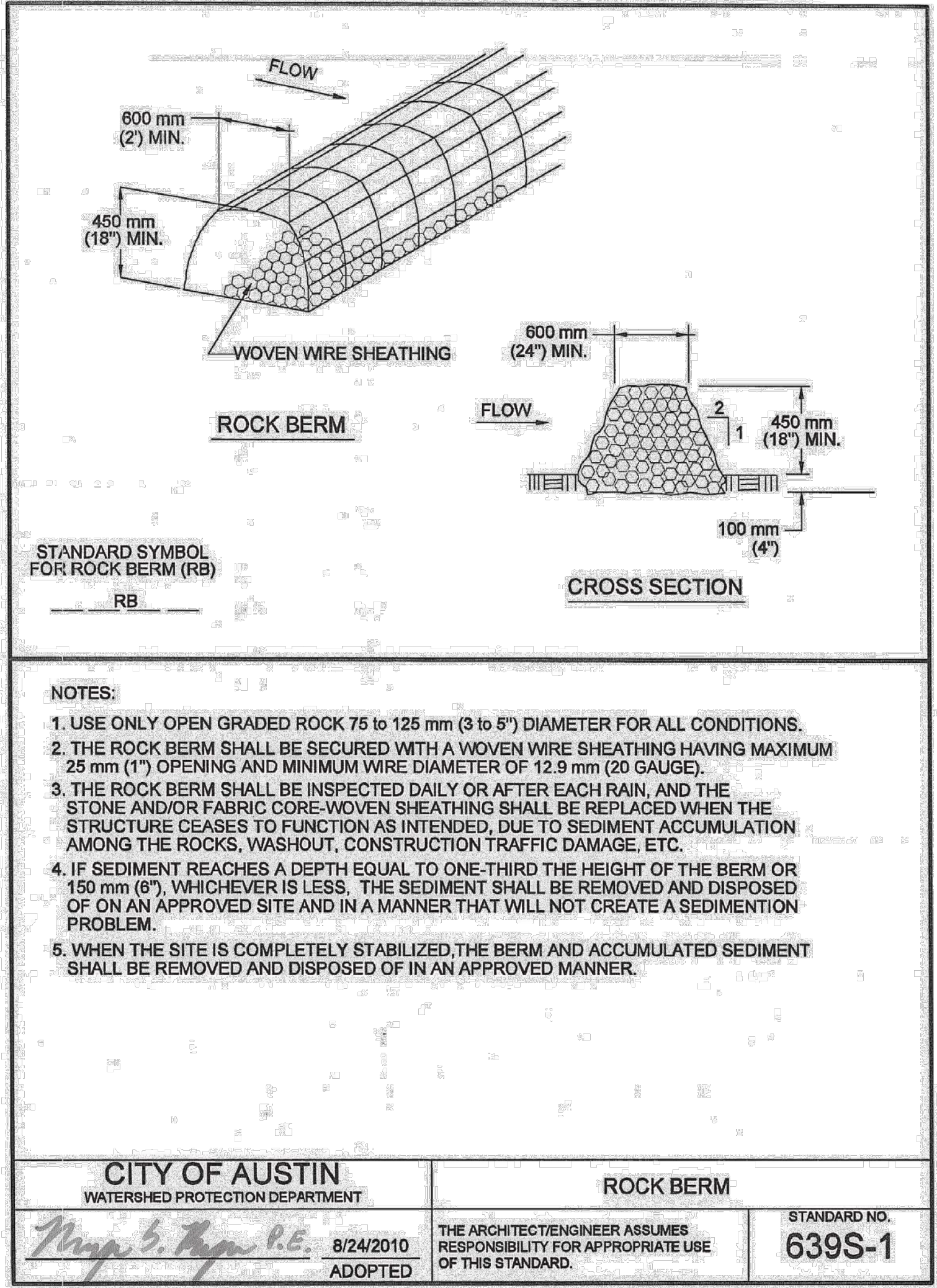
EROSION CONTROL PLAN

SHEET No.

6

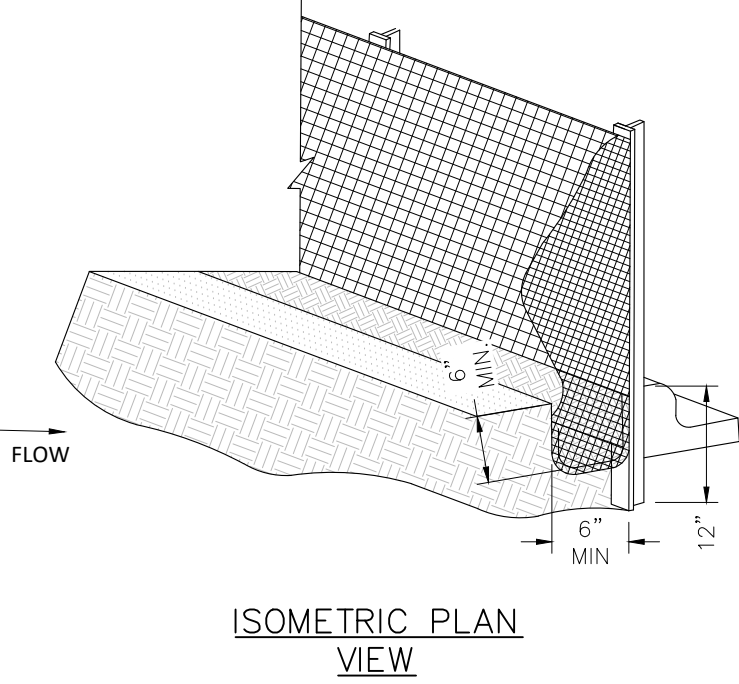
OF 19

LEGAL DESCRIPTION
BEING A TRACT CONTAINING 5.74 ACRES OF LAND, MORE OR LESS, OUT OF THE L.B. JOHNSON SURVEY, ABSTRACT NO. 350, WILLIAMSON COUNTY, TEXAS AND A PART OF TRACT 7, SOUTH SAN GABRIEL RANCHES, ACCORDING TO THE MAP OR PLAT THEREFORE RECORDED IN CABINET B, SLIDE 86, PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS (O.P.R.W.C.)



CONCRETE WASHOUT DETAIL

N.T.S.

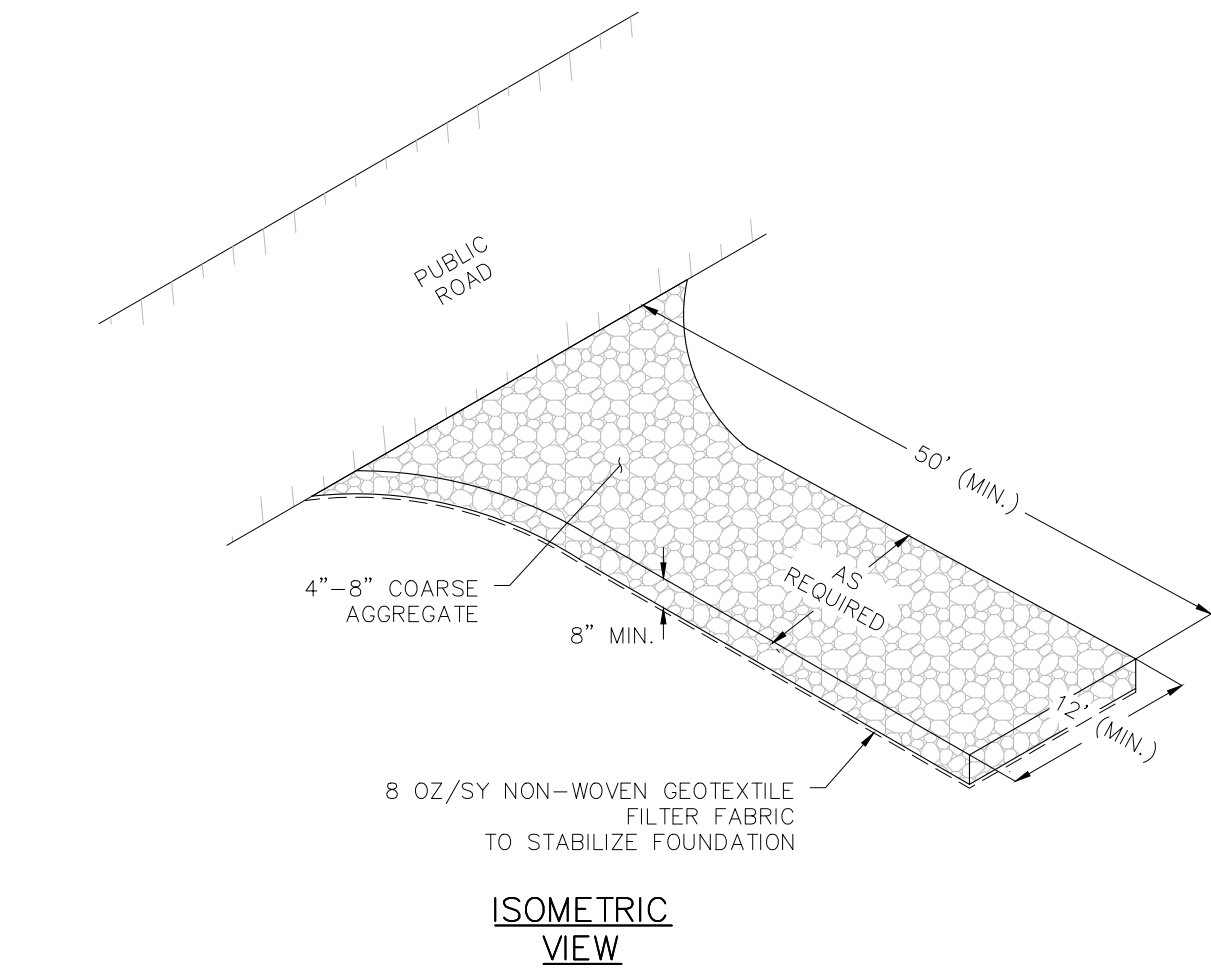


NOTES:

- SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4 OZ/YD, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
- FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM NOMINAL WEIGHT 1.25 LB/SF, AND BRINDELL HARDNESS EXCEEDING 140.
- WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 20X 4" WELDED WIRE, 12 GAUGE MINIMUM.
- STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.
- LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. UTILIZE J-HOOKS AS NECESSARY AS SHOWN IN THIS DETAIL. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS ¼ ACRE/100 FEET OF FENCE.
- THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL IN EXCESS OF 0.5 INCH OR MORE. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES. REPLACE ANY TORN FABRIC.
- REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.
- WHEN CONSTRUCTION IS COMPLETE, THE SEDIMENT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE ADDITIONAL SILTATION AND THE PRIOR LOCATION OF THE SILT FENCE SHOULD BE REVEGETATED. THE FENCE ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL.

SILT FENCE DETAIL

N.T.S.



NOTES:

- THE AGGREGATE SHOULD CONSIST OF 4 TO 8 INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.
- THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8 INCHES.
- THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 8 OZ/SY.
- IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4 INCH DIAMETER WASHED STONE OR COMMERCIAL RACK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OR BASIN.
- AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
- THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF THE EXIT ROADWAY, WHICHEVER IS GREATER.
- THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG. EXTEND PAD BEYOND MINIMUM 50 FOOT LENGTH AS NECESSARY.
- IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A DIVERSION RIDGE, 6 TO 8 INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
- PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
- PLACE STONE DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
- DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN IF NECESSARY.
- INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
- THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE BY USING APPROVED METHODS.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT. THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS. SPECIFICALLY, CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

CAUTION!

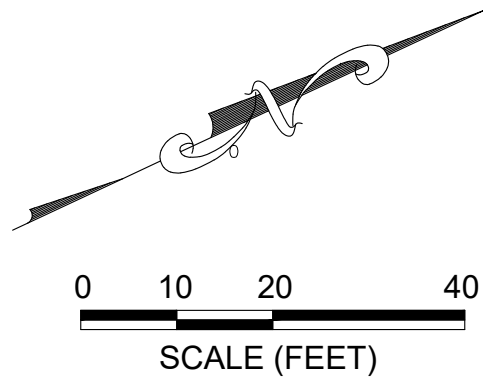
CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

No.	Date	Revisions

1. THE CONSTRUCTION HEIGHT OF AN EARTHEN EMBANKMENT SHALL BE EQUAL TO THE DESIGN HEIGHT PLUS THE AMOUNT NECESSARY TO ENSURE THAT THE DESIGN HEIGHT WILL BE MAINTAINED ONCE ALL SETTLEMENT HAS TAKEN PLACE. ALL EARTHEN EMBANKMENTS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.
2. ALL ROCK RIP RAP SHALL BE A MINIMUM 6" AND HAVE A MINIMUM APRON LENGTH OF 6" UNLESS SIZE IS SPECIFIED ON THE PLANS. EMBANKMENT LENGTH OF RIP RAP SHALL BE 1.5 TIMES THE DIAMETER OF THE ROCK.
3. ALL ROCK RIP RAP TO BE LINED WITH AN 8-OZ NON-WOVEN GEOTEXTILE FILTER FABRIC.
4. ALL DISTURBED AREAS SHALL BE RESTORED AND PERMANENTLY REVEGETATED UNLESS OTHERWISE NOTED IN THE PLANS.
5. AT A MINIMUM DISTURBED AREAS NEED TO BE REVEGETATED AS PER TxDOT ITEM 164 SEEDING FOR EROSION CONTROL. PLANTING MUST FOLLOW EITHER SAN ANTONIO OR AUSTIN TxDOT REQUIREMENTS FOR SEED WEIGHT PER ACRE.
6. THE PLANTED AREAS SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOSPOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/4 INCH OF MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.
7. REFER TO DETENTION POND DETAILS SHEET FOR ADDITIONAL DETAILS ON POND DESIGN.
8. ADD SIGN NEXT TO MAINTENANCE ACCESS RAMP SHOWING OWNER'S AND TCEQ Austin REGIONAL OFFICE CONTACT INFORMATION:
 - 8.1. OWNER'S CONTACT:
AAA STORAGE DRIPPING SPRINGS LLC
4203 SPRINKLER CV
AUSTIN, TX 78731
CONTACT: JOHN MUJICH
PHONE: (512) 657-6789
 - 8.2. TCEQ AUSTIN REGIONAL OFFICE:
1210 RAMP 35 COR.,
AUSTIN, TX 78753
PHONE: (512) 239-1000



Stage (ft)	Elevation (ft)	Area (sqft)	Total Storage (cuft)
0.00	896.00	0.00	0.00
1.00	897.00	9,448.00	3,149.00
2.00	898.00	11,338.00	13,528.00
3.00	899.00	12,197.00	25,293.00
4.00	900.00	13,077.00	37,927.00
4.50	900.50	13,528.00	44,578.00

DETENTION POND
H: 1" = 20', V: 1" = 2'

Elevation

904

902

900

898

896

894

892

0+00

0+25

0+50

0+75

1+00

Station

EXISTING GRADE

PROPOSED GRADE

100-YR WSE 899.80'

25-YR WSE 899.30'

WQ WSE 897.80'

5:1

3:1

TOP OF POND 900.50'

TOP OF RISER 897.8'

BOTTOM OF POND 896.00'

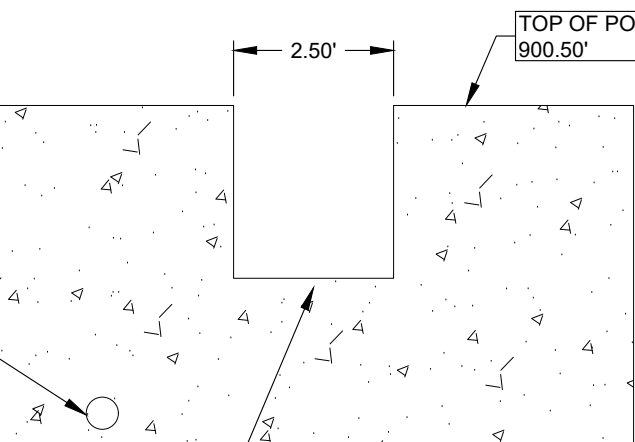
PERFORATED RISER OUTFALL
REFER TO SHEET 3 FOR DETAIL

6" ROCK RIP RAP

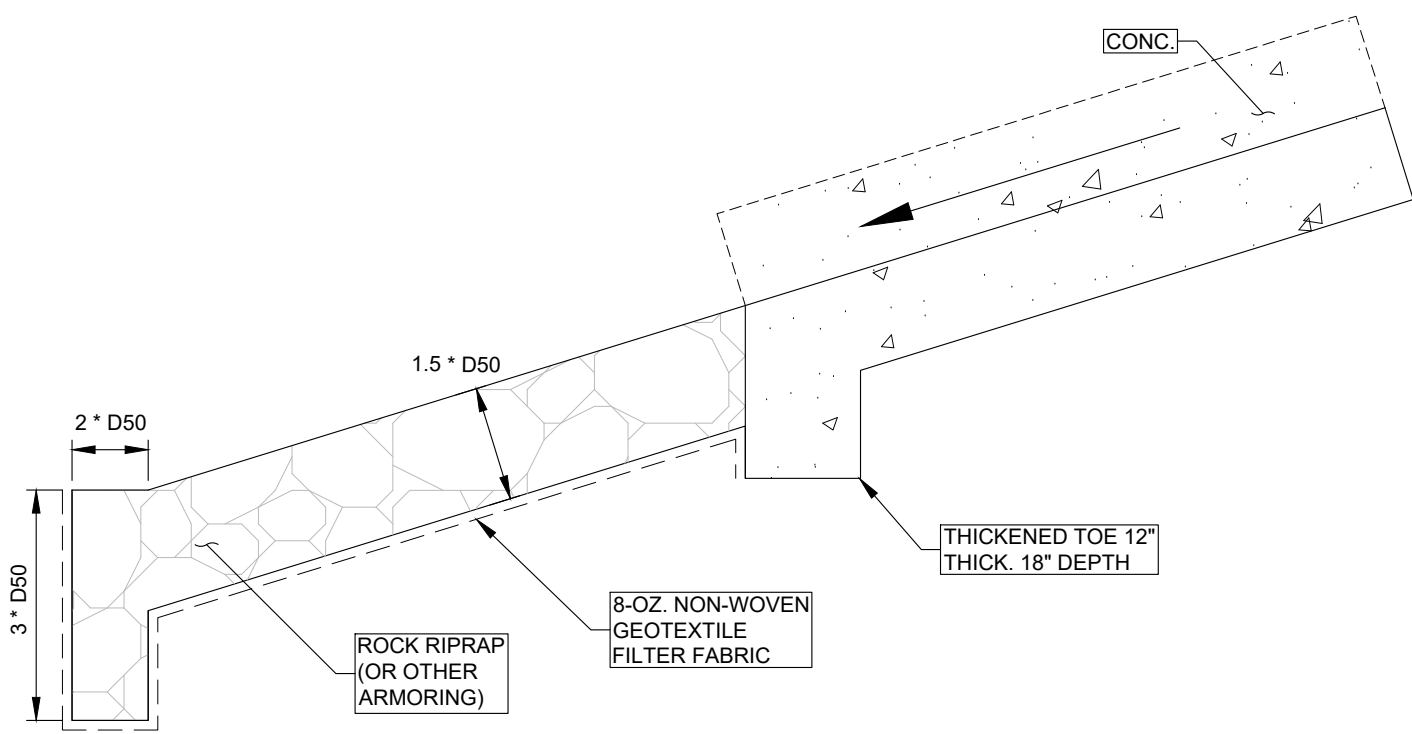
BATCH POND VALVE AND HEADWALL LOCATION. SEE DETAIL ON SHEET 10

2.5:1

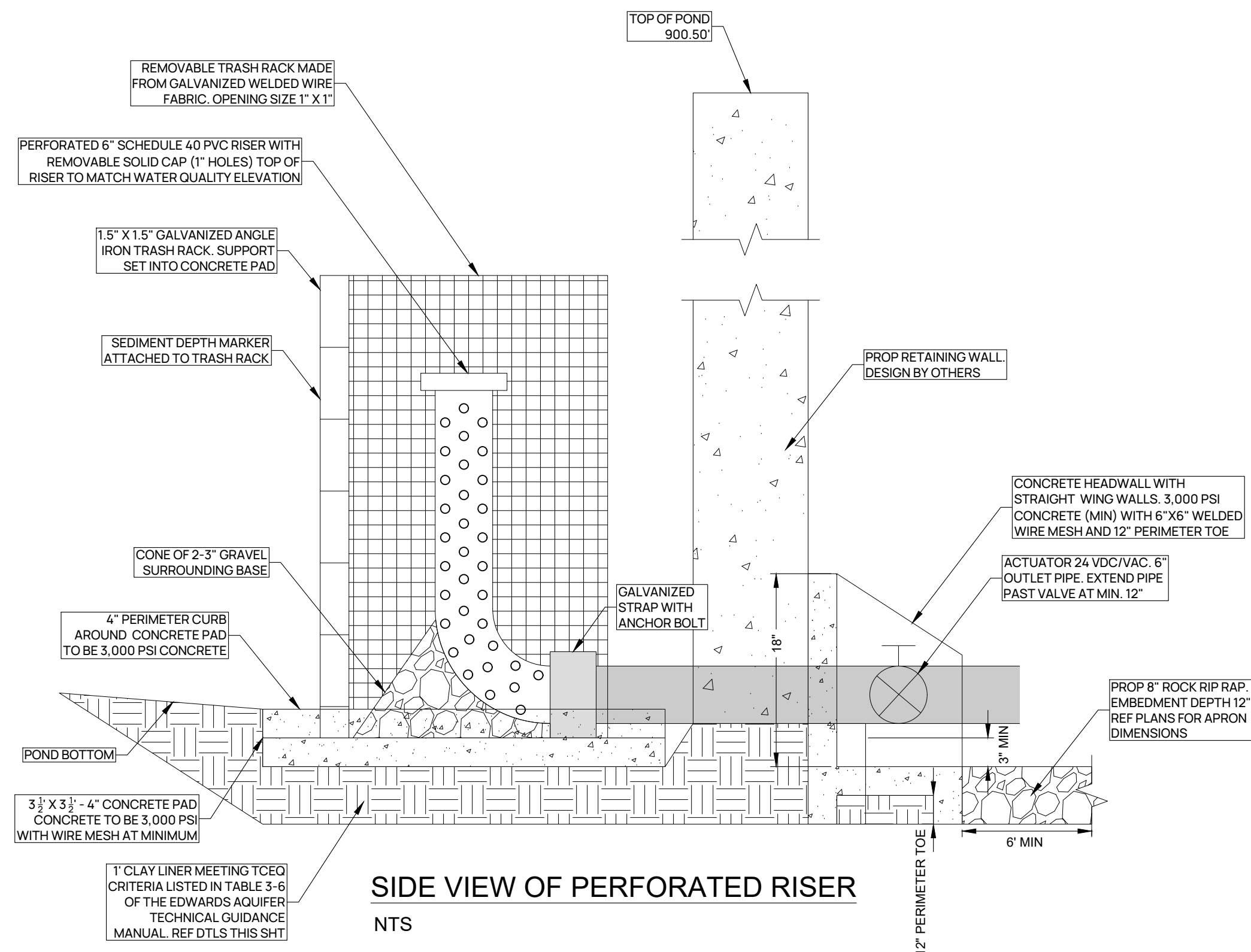
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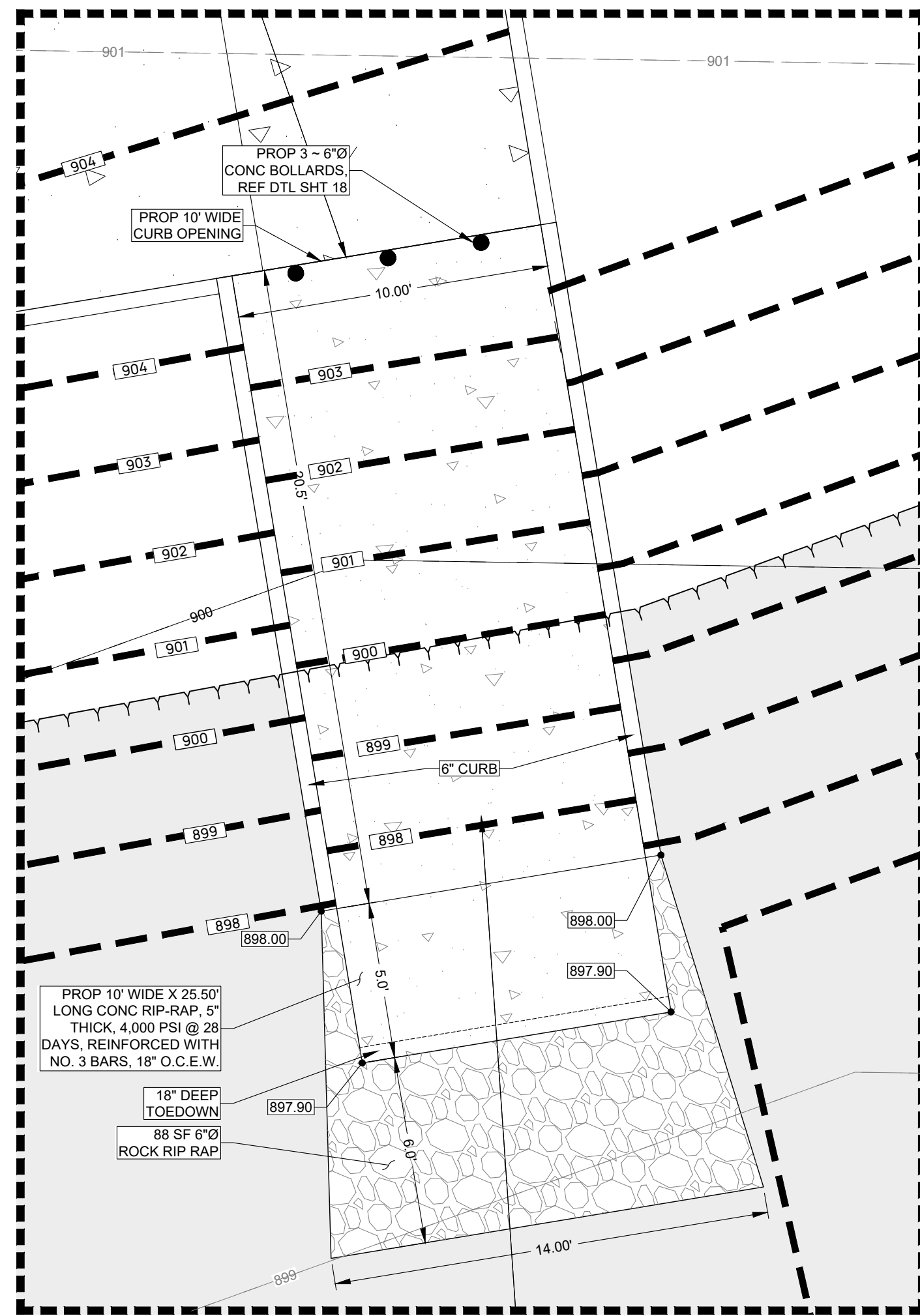
C:\MCD\OnDraw - Hill Country Civil\Projects\041 - AAA Storage\041 AAA Len Bar1 - CAD02 - Sheet\041-06 DET POND.rvt



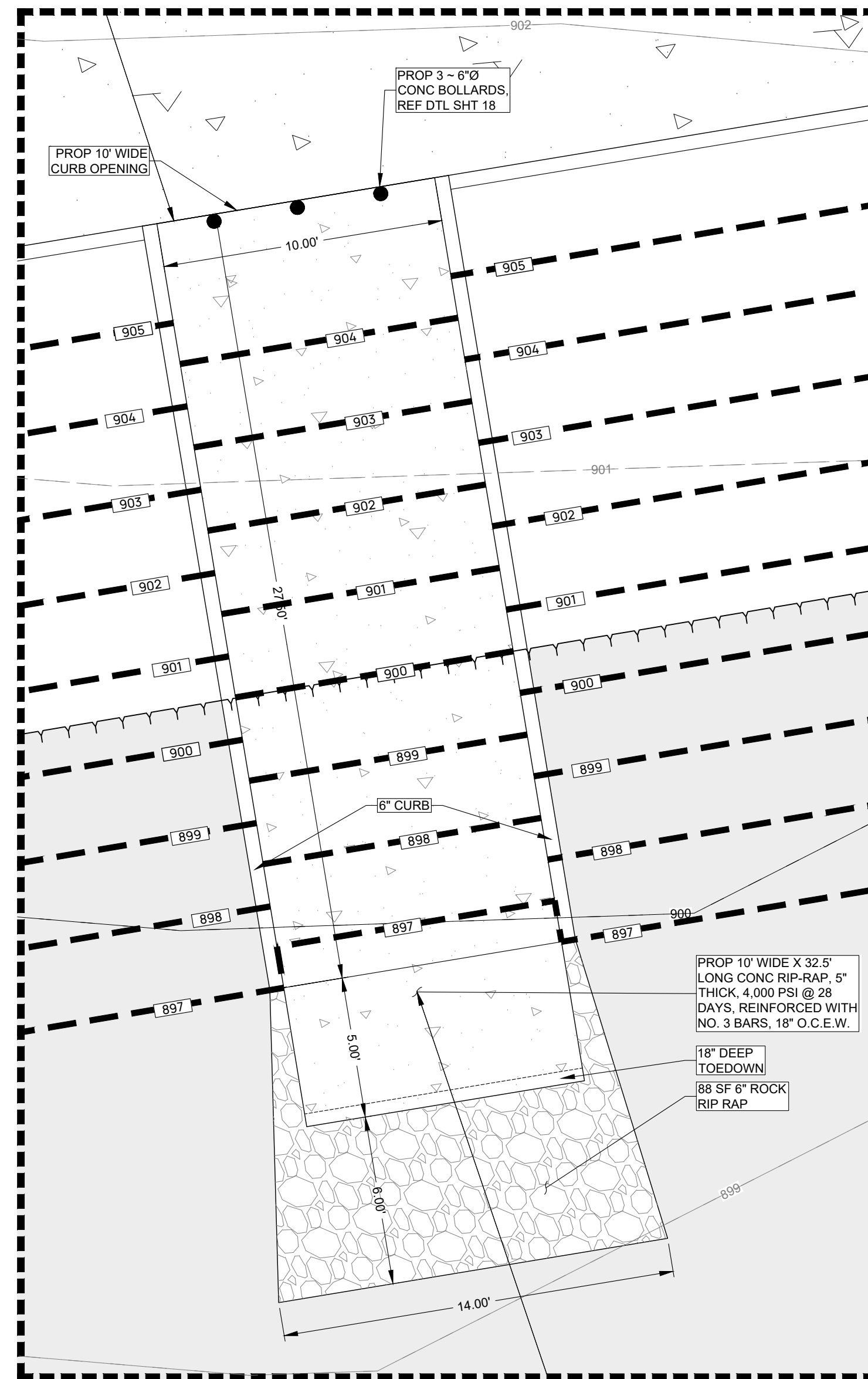
RIP RAP CROSS-SECTION (TYP)
NTS



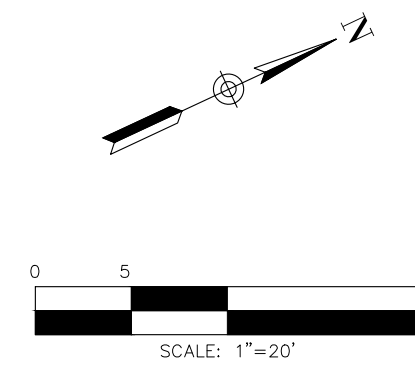
SIDE VIEW OF PERFORATED RISER
NTS



INSET 1
SCALE: 1" = 4'

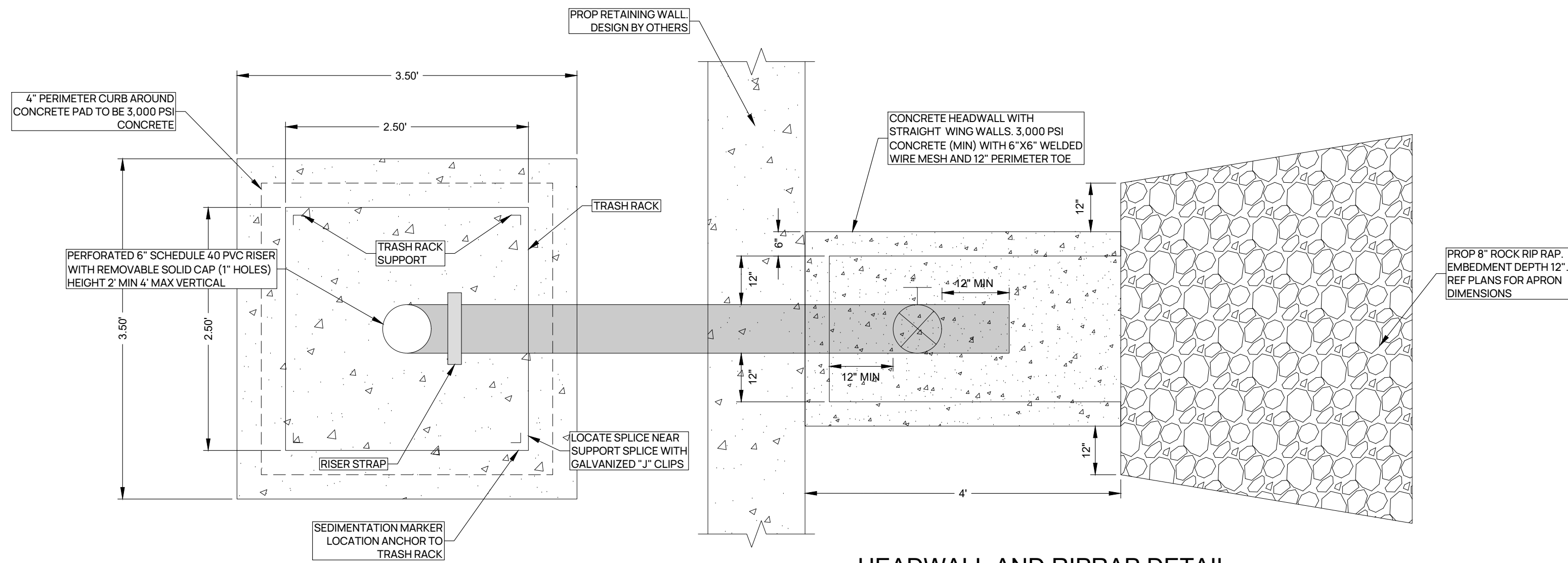


INSET 2
SCALE: 1" = 4'



LEGEND

- 910 --- EXIST MAJOR CONTOUR
- 911 --- EXIST MINOR CONTOUR
- 860 --- PROP MAJOR CONTOUR
- 861 --- PROP MINOR CONTOUR
- TOP OF POND



HEADWALL AND RIPRAP DETAIL
NTS

- NOTES
- ROCK RIP RAP APRON SIZES SHOWN ARE MINIMUM. ADDITIONAL RIP RAP MAY BE INSTALLED IF DESIRED.
 - ROCK RIP RAP EMBEDMENT DEPTH SHALL BE AT LEAST 1.5 TIMES THE DIAMETER OF THE ROCK.

10/30/2025

No.	Date	Revisions	App.

Preface – The following specifications describe the general function and components of a typical Texas Commission on Environmental Quality (TCEQ) approved batch detention pond. The system operates as an “off-grid” electronically controlled solar powered storm water management unit. This batch detention system uses a water level sensor, solar power panel, logic controller w/ microprocessor, and a plug valve with actuator to meet batch detention standards as set by the TCEQ.

Components:

- Valve – 4” or 6”, cast iron, actuated by an electric motor, valve placed in concrete vault when installed below ground, valve placed on concrete pad due to weight
- Actuator – low voltage motor mounted on top of valve, bolted in place to concrete vault ceiling
- Extended bonnet – Cold rolled steel stem extension that connects valve to actuator when valve is used in subgrade applications, stainless steel flanges
- Main board – 24-volt panel that controls all aspects of batch control system
- Batteries – two 12-volt 35 amp/hr. sealed lead acid (SLA) connected in series
- Solar Panel – 24-volt 30-watt. One charge controller regulates solar panel power for batch control system
- Sensor 1 – float switch – mounted on trash rack that indicates when water present in pond and when pond is empty
- Sensor 2 – position sensor or actuator – determines the orientation of the valve to control positions for start and stop

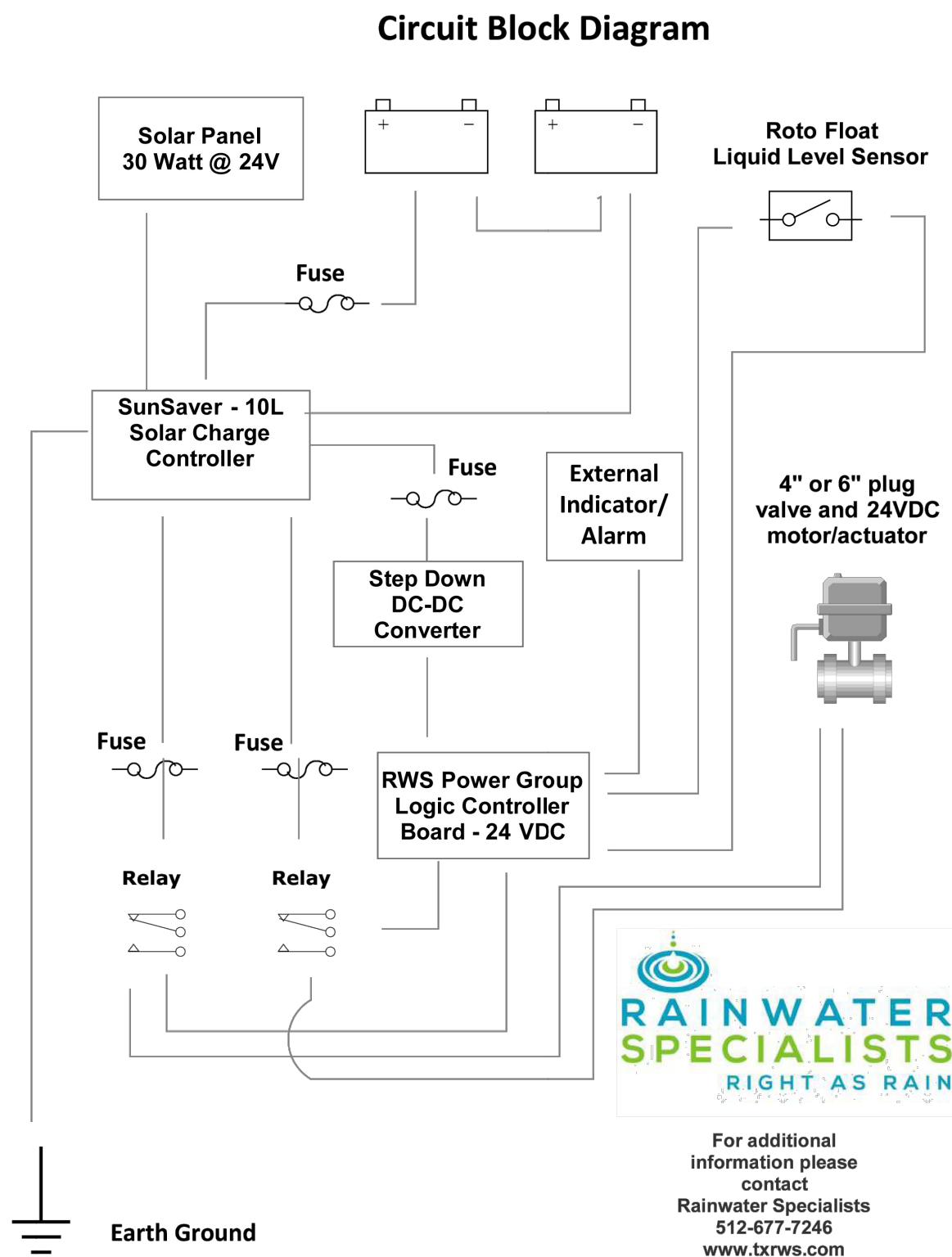
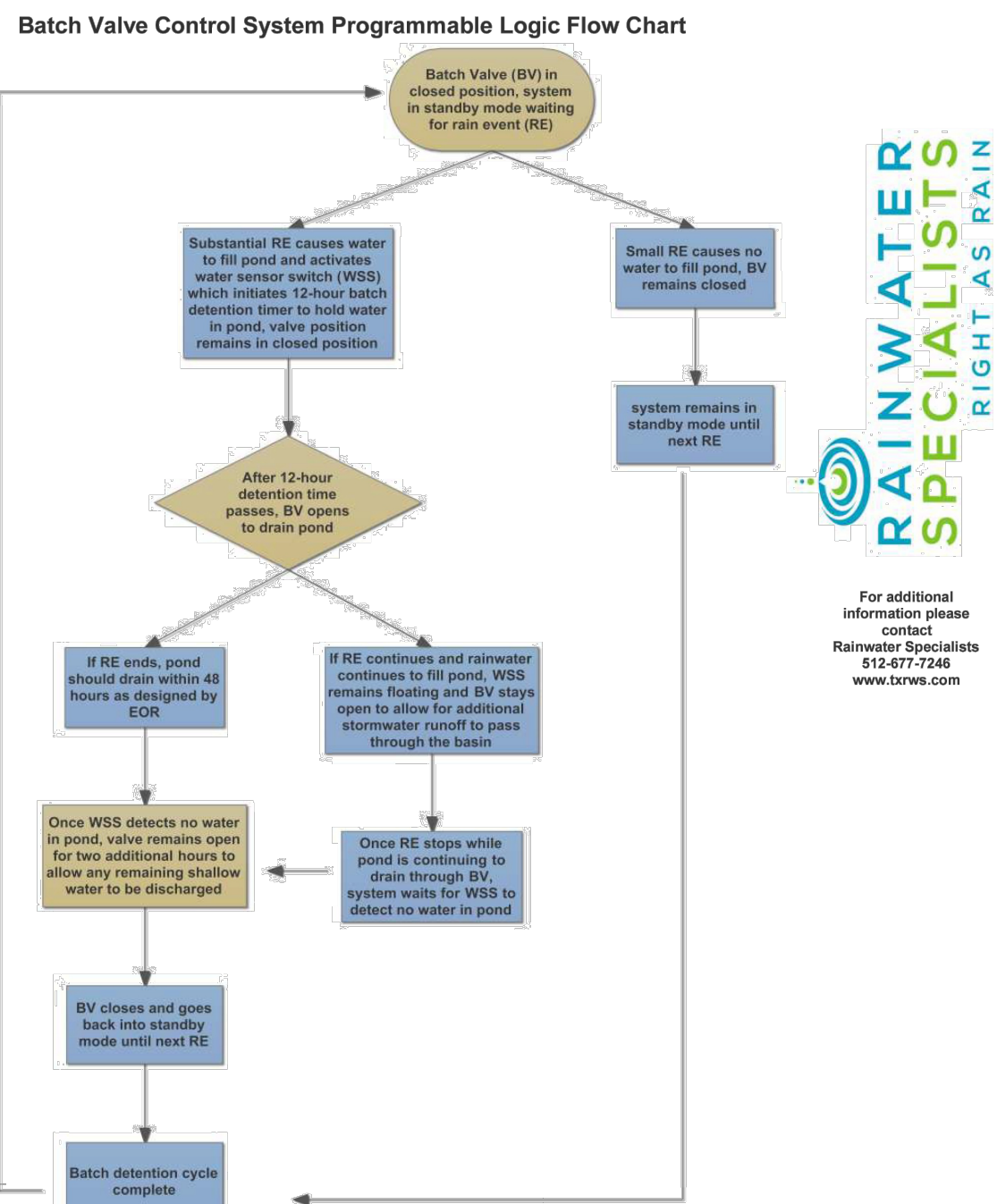
Alerts - The main board will illuminate an exterior red light for the following conditions:

- Manual Control** - In case of electronic inoperability or failed actuator, an effortless clutchless handwheel on the actuator can be turned to open or close valve manually, easy-to-read position indicator displays open/closed valve position

- Batteries – Sealed lead acid batteries can have a design life of anywhere from 3-5 years. Many factors affect service life of the battery, temperature being one of those factors. Recommended replacement is every 3-5 years. Batteries can be tested annually to determine remaining life expectancy. Battery terminals to be inspected annually.
- Solar Panel(s) - Solar panels last 25-30 years. Annual inspection of the batch/detraining system should verify the surface of the solar panel is clean, facing south, is secure, and has no obstructions (trees blocking panel from sun).

 **RAINWATER
SPECIALISTS**
RIGHT AS RAIN

For additional
information please
contact
Rainwater Specialists
512-677-7246
www.txrws.com



Batteries - Universal Power Group UB12350(Group U1) 12V 35 amph 7.68" x 5.16" x 6.14" 23.15lbs



**RAINWATER
SPECIALISTS**
RIGHT AS RAIN

SERIES
5673

- Direct mount lug butterfly valve with ISO5211 mount
- Epoxy coated ductile iron body with 316 SS disc
- Unique wave line seat reduces torque and extends seal life
- Visual wave position indicator
- Rugged aluminum Type 4X weatherproof actuator
- Heavy duty motors with overload protection
- Thermostatically controlled anti-condensation heater
- Manual override with end of travel mechanical stops
- Two auxiliary position confirmation limit switches
- EPS - Electronic Positioning System models available
- Actuators CSA Listed per UL129 and CSA C22.2



Electric operated direct mount butterfly valves with epoxy-coated ductile iron lug body are designed for commercial and industrial applications. Valve mounts between two standard ANSI/ASME Class 150 flanges and includes integral molded flange gaskets. Disc is precision machined 316SS. Two piece stem and disc design enhances the flow capacity and reduces turbulence. Rugged corrosion resistant electric actuator includes a manual override, valve position confirmation switches, thermostatically controlled anti-condensation heater, and over-torque protec-

On-Off electric actuated valve uses power-to-open and power-to-close, stays in the last known position with loss of power. On receipt of a continuous voltage signal, the motor runs and via a rugged all metal gear system rotates the ball 90°. The motor is automatically stopped by internal cams striking limit switches. On receipt of a reversing continuous signal, the motor turns in the opposite direction reversing the valve position. Power connections direct to terminal strip via included cable connector, or optional 1/2" NPT conduit adapters.

Valve Body	Epoxy coated ductile iron
Disc	316 stainless steel CF8M
Disc Seat/liner	EPDM, NBR (Buna-N) or PTFE (Viton)
Stem/Stem Seals	420 stainless steel / (Z) ring, same material as seat
Gear Drive	Heavy duty alloy steel and aluminum bronze, self locking
Actuator Enclosure	Aluminum, polyester powder painted, Type 4X, IP67
Visual Valve Position Indicator	Clear polycarbonate window, red/yellow open-closed
Fasteners	Stainless Steel
Auxiliary Limit Switches	2 x SPDT (125VAC/5A)

www.valworx.com



Actuators

- CSA Listed to:
 - UL429 and CSA C22.2 no 139
 - Type 4X, IP67 weatherproof enclosure
- CE conformance
 - ISO5211 Mounting

Valves

- Design complies with API-609, MSS SP 67
- Tests per API-598, AWWA C502-87
- CE according to PED 97/23/EC, ISO5208

SERIES
5673

A technical diagram of a Valvex 316SS butterfly valve. The valve is shown in a side profile, highlighting its compact design. It features a white, weather-resistant upper housing with the 'Valvex' logo. Below the housing is a grey, ductile iron body. The valve is equipped with a manual override handle on the side and a self-locking metal gear train. A terminal box is mounted on top for wiring. The valve is designed for direct mounting on a butterfly valve without the need for brackets. The disc is made of 316SS and has a two-piece stem design to enhance flow capacity and reduce pressure drop. The wave line seat is unique, designed to reduce torque and extend seal life. The entire unit is protected by a rugged polyester powder-coated aluminum enclosure that is resistant to 4X weather-proof conditions. Auxiliary limit switches are included for confirming valve position and for on-off positioning. An anti-condensation heater is also present to prevent icing. The valve is compatible with standard ISO5211 mounts and can be coated with epoxy for ductility.

- Auxiliary Limit Switches(2) for confirming valve position, standard in on-off units
- Heavy duty integral motor design significantly reduces physical size of actuator
- Rugged polyester powder coated aluminum corrosion resistant Type 4X weather-proof enclosure
- Unique wave line seat reduces torque and extends seal life
- 316SS disc with 2-piece stem design enhances flow capacity, reduces pressure drop
- Anti-Condensation Heater
- Terminal Box, wire directly to terminal strip via included cable connectors, or optional 1/2" NPT conduit adapters
- Manual Override with protective cover
- Self-locking all metal gear train, no additional brake required
- Direct mount lug butterfly valve with standard ISO5211 mount, no brackets required
- Ductile iron body with epoxy coating



Visual Valve Position Indicator

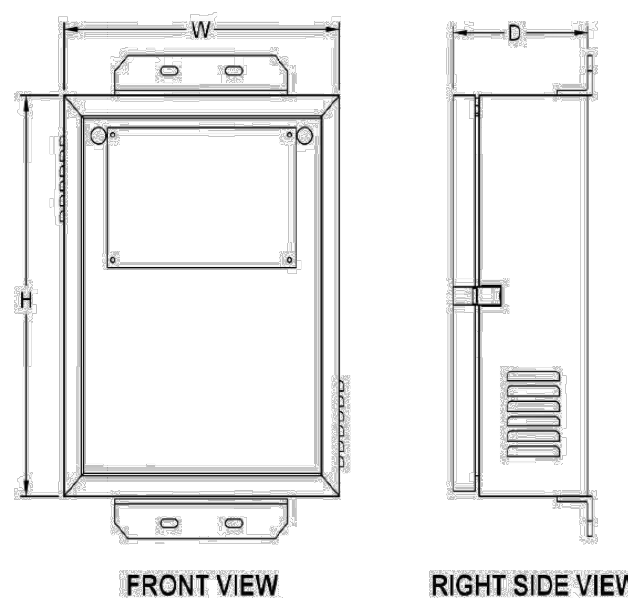
Pressure Rating: 230 PSI (16 Bar), Vacuum 29in Hg

Temperature Rating

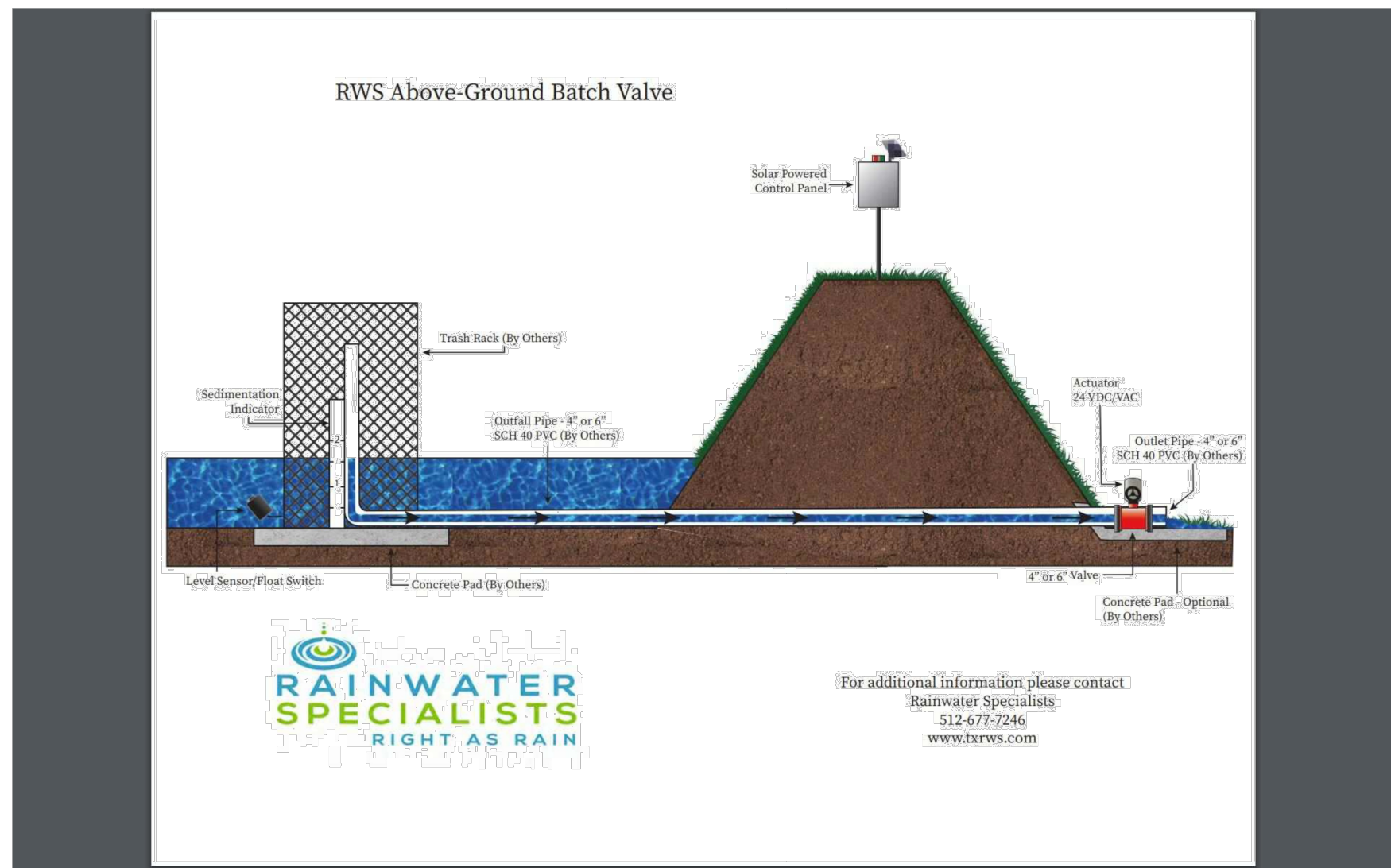
Valve Temperature Rating: EPDM seals 0 to 248° F (-18 to 120°C)
NBR (Buna-N) seals 5 to 185° F (-15 to 85°C)
FPM (Viton) seals 5 to 338° F (-15 to 170°C)

Cornelius, N.C. • USA

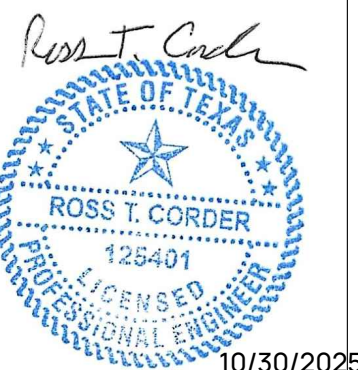
www.valworx.com



- Standard boxes are fabricated from .125" thick 5052-H32 aluminum
- Heavy-duty stainless steel continuous
- Heavy-duty stainless steel continuous hinge
- Seams are continuously welded and then sanded smooth
- Adjustable tension stainless steel padlock hasp
- Removable component mounting plate
- Standard finish is a bright white polyester powder-coat inside and out
- Two 7/8" diameter wire holes
- Built to NEMA 3R specifications
- Filtered or screened ventilation louvers
- Hinged front door with PORON door gasket
- Supplied with u-bolts (when pole specified)



For additional information please contact
Rainwater Specialists
512-677-7246
www.txrws.com



10/30/2025

[illegible]

LEN BAR BUSINESS PARK

200 Len Bar Lane,
Leander, Williamson County, TX

DRAWN BY.: RTC

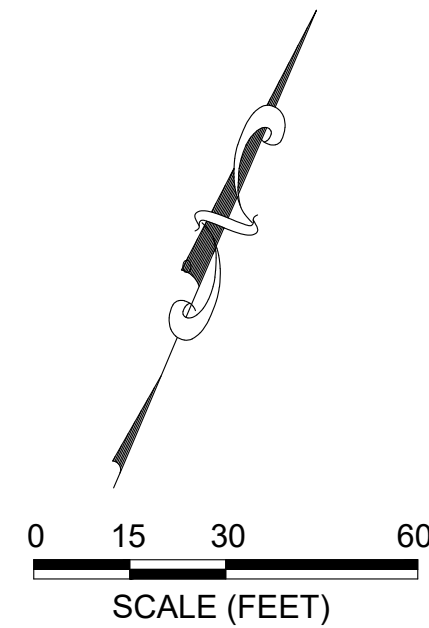
HCC JOB No.:041-06

BATCH POND DETAILS

SHEET No.


12

OF 19



	IRON ROD FOUND (SIZE NOTED)
	CONTROL POINT
	BENCHMARK
	EXIST WATER METER
	EXIST POWER POLE
	EXIST SIGN
	EXIST MAILBOX
	EXIST GUY ANCHOR
	PROPERTY LINE
	ADJOINER LINE
	EXIST CHAINLINK FENCE
	EXIST BARBED WIRE FENCE
	EXIST EDGE OF PAVEMENT
	EXIST EASEMENT
	BUILDING SETBACK LINE (BSL)
	EXIST OVERHEAD UTILITY
	EXIST MAJOR CONTOUR
	EXIST MINOR CONTOUR
	PROP MAJOR CONTOUR
	PROP MINOR CONTOUR
	TIME OF CONCENTRATION
	DRAINAGE AREA BOUNDARY
	DRAINAGE AREA LABEL
	EXIST TREE

Ross T. Corder



10/30/2025

[illegible]

LEN BAR BUSINESS PARK

200 Len Bar Lane,
Leander, Williamson County, TX

HCC JOB No.:041-06 DRAWN BY:.

PROPOSED DRAINAGE AREA MAP

SHEET No.

14

OF 19

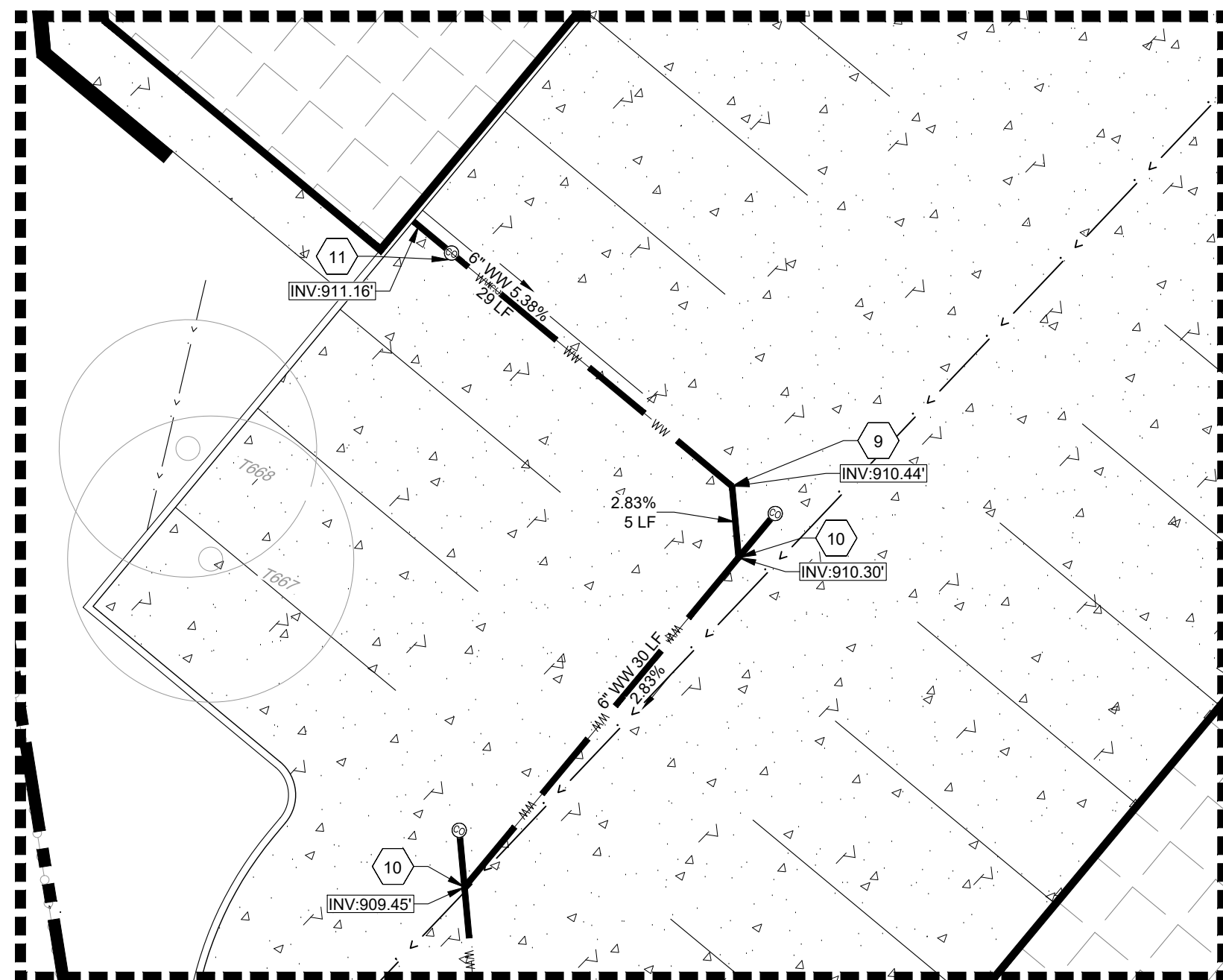
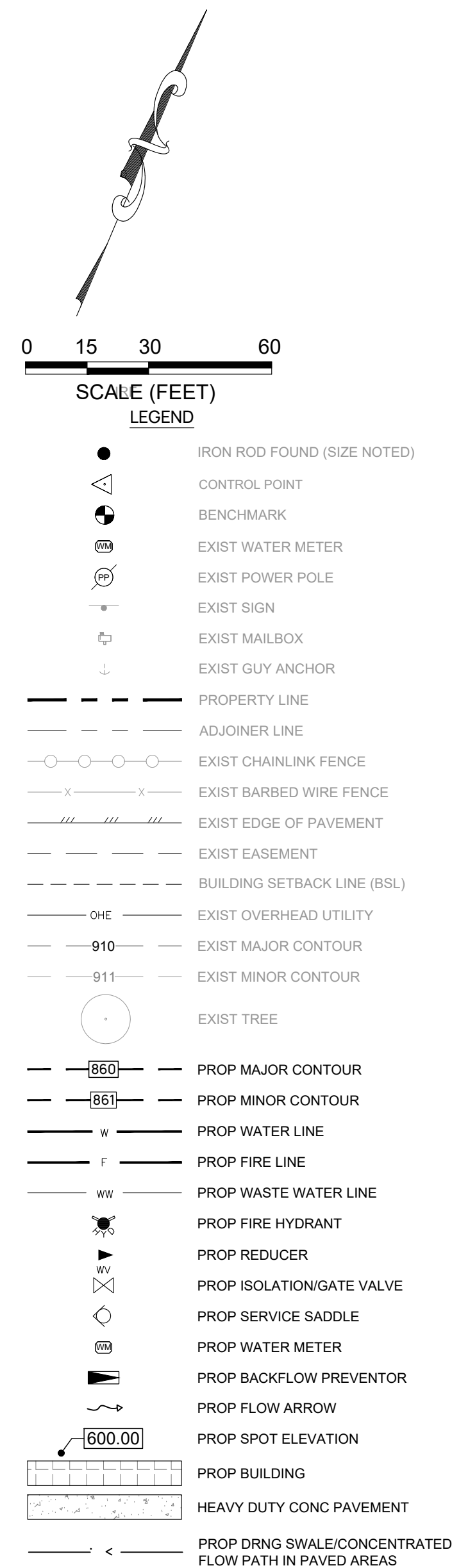
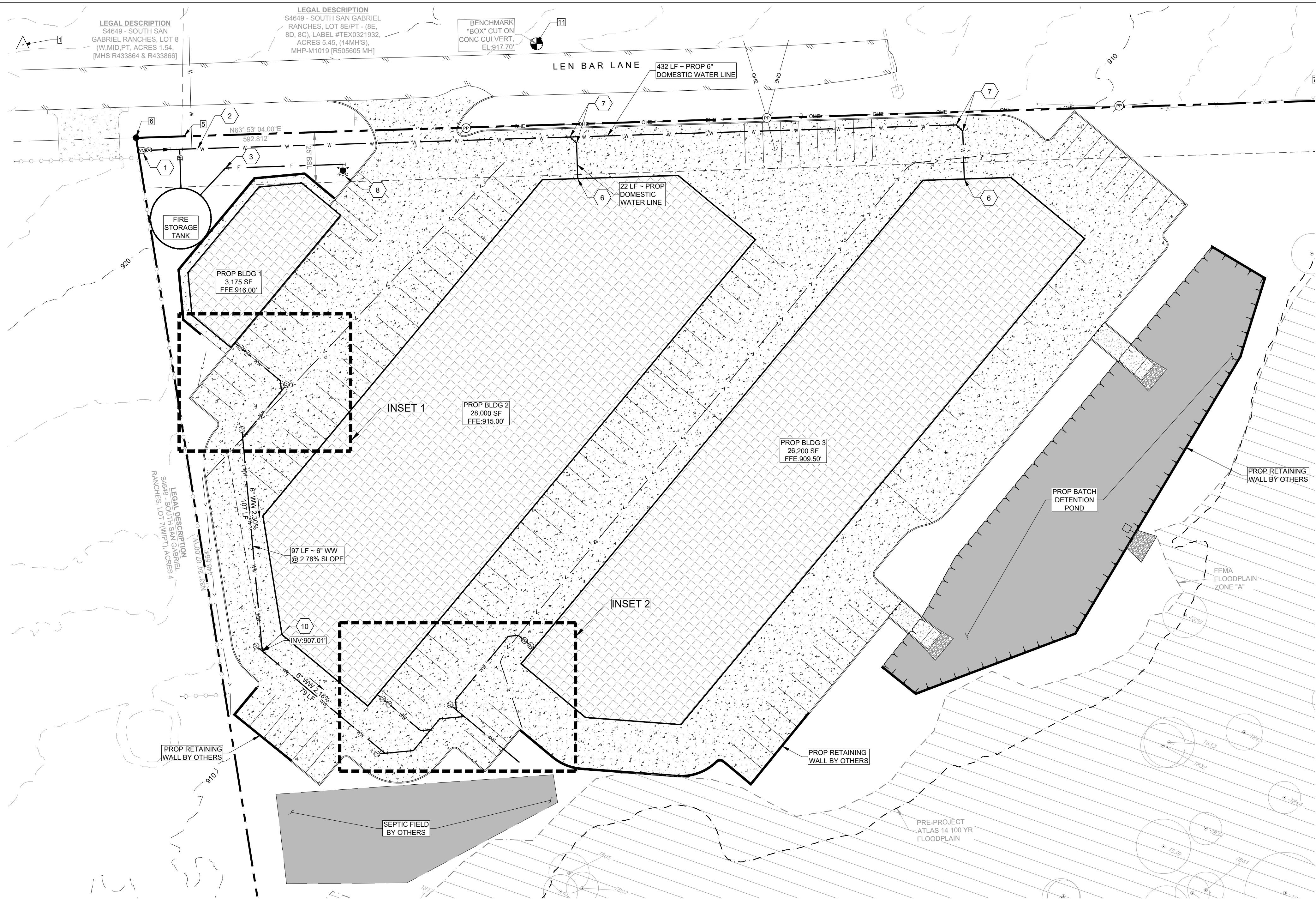
LEGAL DESCRIPTION
BEING A TRACT CONTAINING 5.74 ACRES OF LAND, MORE OR
LESS, OUT OF THE L.B. JOHNSON SURVEY, ABSTRACT NO. 350
WILLIAMSON COUNTY, TEXAS AND A PART OF TRACT 7, SOUTH-
SAN GABRIEL RANCHES, ACCORDING TO THE MAP OR PLAT
THEREFORE RECORDED IN CABINET B, SLIDE 86, PLAT
RECORDS OF WILLIAMSON COUNTY, TEXAS (O.P.R.W.C.)

UTILITY KEYED NOTES

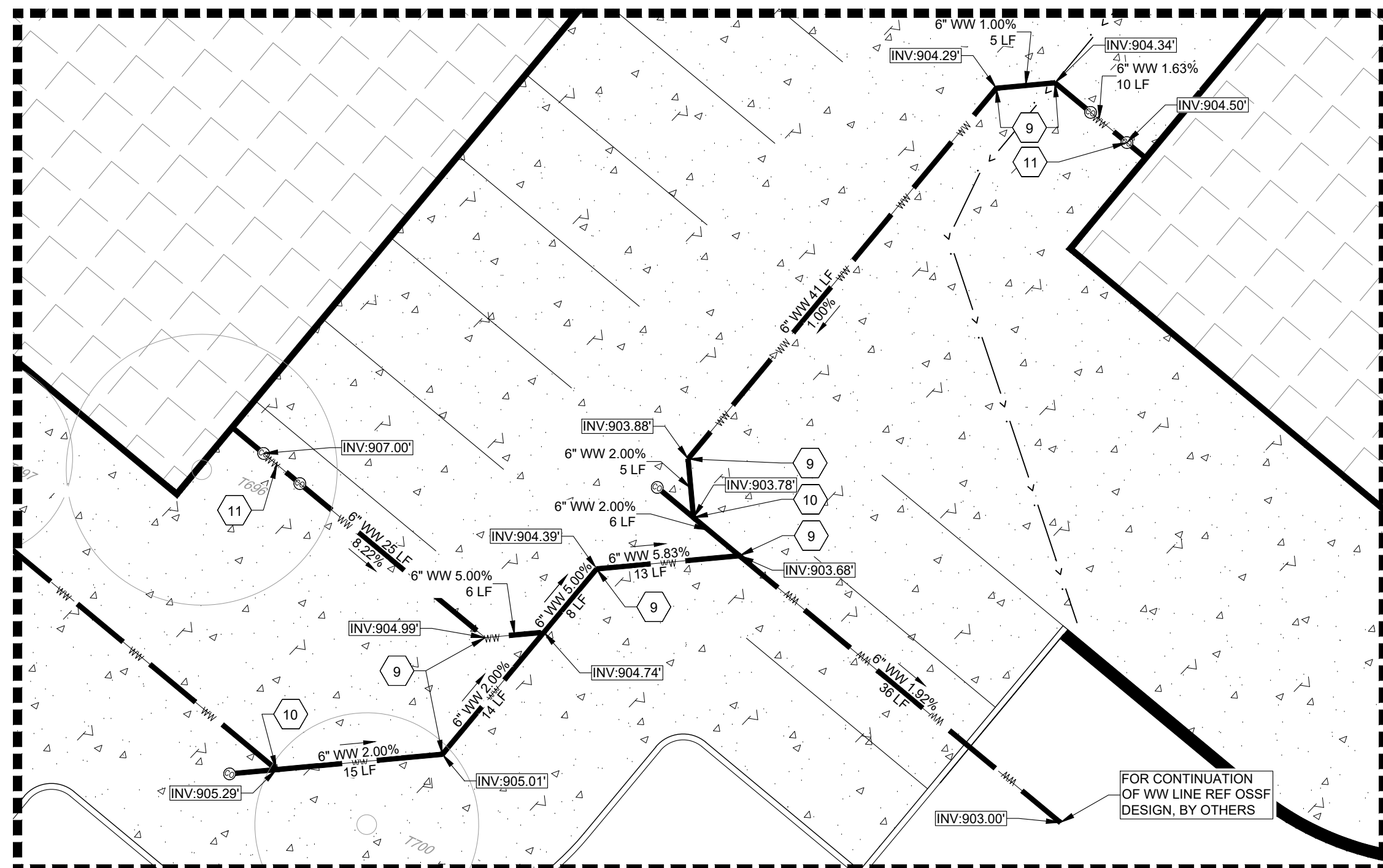
1. REMOVE AND REPLACE EXIST METER WITH A NEW 2" DOMESTIC METER WITH A 2" BACKFLOW PREVENTER
2. INSTALL: 2" WTR TEE, MJ.
3. INSTALL: 6" WTR 45° BEND, MJ.
4. INSTALL: 6" WTR TEE, MJ.
5. PROP DOMESTIC WATER CONNECTION TO BUILDING. REFERENCE MEP FOR CONTINUATION.
6. INSTALL: 2" WTR 45° BEND, MJ.
7. INSTALL: 6" WTR 90° BEND, MJ.
8. INSTALL: FIRE HYDRANT ASSEMBLY, REF DTL SHT 19
9. INSTALL: 6" WW 45° BEND
10. INSTALL: 6" WW WYE AND CLEANOUT
11. REF MEP PLANS FOR UTILITY CONNECTIONS TO BLDG

BENCH MARK, CONTROL POINTS, IRON RODS FOUND

Point #	Elevation	Northing	Easting	Description
1	924.35	10192759.56	3080101.66	GBI CP
2	909.37	10192329.61	3080389.19	GBI CP
3	908.45	10192657.25	3080951.94	GBI CP
4	898.27	10193022.21	3080708.22	GBI CP
5	921.54	10192751.19	3080193.07	FIR5
6	921.97	10192740.71	3080171.69	FIR5 LEANING
7	899.75	10193001.58	3080704.24	FIRC4C
8	907.27	10192366.32	3080418.57	FIR4
9	906.96	10192669.91	3080826.42	FIP 1"
10	904.31	10192519.00	3080674.94	FIR4
11	917.58	10192864.67	3080333.16	BM "BOX" ON CULVERT



INSET 1
SCALE : 1" = 10'



INSET 2

SCALE : 1" = 10'

- [illegible]

TRENCH EXCAVATION SAFETY PROTECTION

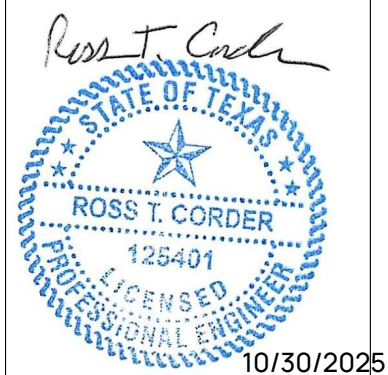
CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTOR TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM THE FOLLOWING: A STRUCTALLY CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

[illegible]

LEN BAR BUSINESS PARK
200 Len Bar Lane,
Leander, Williamson County, TX

DRAWN BY: RTC

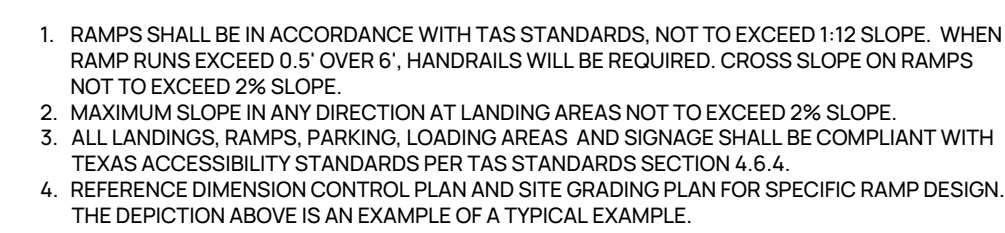
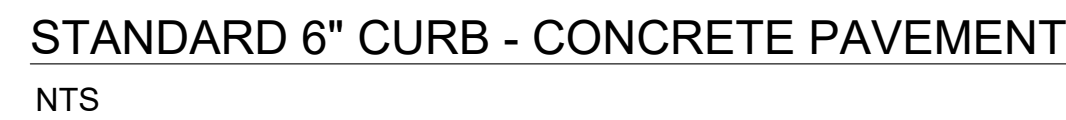
HCC JOB No.:041-06

OVERALL UTILITY CONNECTION PLAN

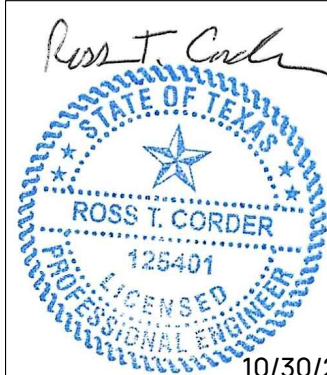
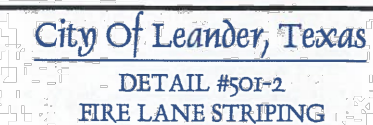
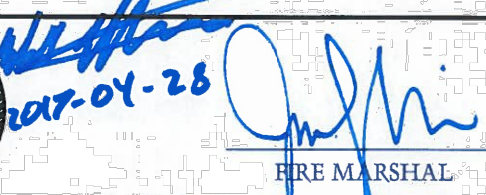
SHEET No.

16

OF 19



- 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.

[illegible]

LEN BAR BUSINESS PARK
200 Len Bar Lane,
Leander, Williamson County, TX

HCC JOB No.:041-06

SITE DETAILS
(1 OF 2)

SHEET No.



Hill Country Civil
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Attachment N-Inspection, Maintenance, Repair, and Retrofit Plan

Attachment N: Inspection, Maintenance, Repair, Retrofit Plan

Batch Detention Pond:

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 inspection of the automatic controller and the valve at the outlet.

Inspection and Maintenance/Repair:

Inspections should take place a minimum of twice a year. Once 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 as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.

Mowing:

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

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.

Nuisance Control:

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

Structural Repairs:

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.

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.

Detention Pond/BMP Records

☐ Inspection Date: _____
 Type of Inspection: _____
 Comments: _____

 Signature: _____ (Inspector)

☐ Maintenance Date: _____
 Work Performed: _____
 Comments: _____

 Signature: _____ (Maintenance Personnel)

☐ Other Date: _____
 Comments: _____

 Signature: _____ (Title:)



Responsibility of Maintenance

I John Muhich
Print Name

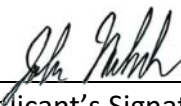
President
Title – Owner/President/Other

JMA Entity LLC
Corporation/Partnership/Entity Name

Agree to assume the responsibility of maintaining the permanent BMPs constructed as part of the Pecan Park Bulverde development in accordance with the rules and regulations of the Texas Commission on Environmental Quality (TCEQ).

I also understand that:

1. I am 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.
2. 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.


Applicant's Signature

10/24/2025

Date

Contact Person: John Muhich

Entity: President

Mailing Address: 4203 Spinnaker Cv., Austin TX 78731

Email: johnsmuhich@gmail.com



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Attachment O-Pilot-Scale Field Testing Plan N/A



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Attachment P-Measures for Minimizing Surface Stream Contamination

Attachment P: Measures for Minimizing Surface Stream Contamination

Upon approval of this plan, the Batch Detention Pond, traditionally designed, will be constructed before the proposed Len Bar Business Park starts. Therefore, any storm water run off leaving the site will be treated per TCEQ RG-348, and no surface stream contamination is anticipated.





Hill Country Civil
Engineers • Consultants

Temporary Stormwater Section

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Christopher B. Allison

Date: 10/30/25

Signature of Customer/Agent:



Regulated Entity Name: Len Bar Business Park

Project Information

Potential Sources of Contamination

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

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

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

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

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

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

Sequence of Construction

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

Temporary Best Management Practices (TBMPs)

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

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

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

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

Soil Stabilization Practices

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

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

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

Administrative Information

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



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Attachment A – Spill Response

Attachment A: Spill Response Actions

Contractors working onsite with materials which could potentially cause pollution shall implement the following measures to prevent stormwater pollution.

Education of Employees or Subcontractors Who Handle Materials Which Can Cause Pollution

- Employees should know what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when a spill must be reported to the TCEQ. Information is available in 30 TAC 327.4 and 40 CFR 302.4.
- Educate employees and subcontractors on the potential dangers to humans and the environment from spills and leaks and provide training in spill prevention and cleanup. Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- Establish a continuing education program to indoctrinate new employees, who will use or handle potential pollutants.
- Provide for a superintendent or representative to oversee and enforce proper spill prevention and control measures.

General Measures

- To the extent that work can be accomplished safely, spills of oil, petroleum products, and substances listed under 40 CFR part 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- Store hazardous materials and waste in covered containers and protect from vandalism.
- Place spill cleanup materials where it will be readily accessible.
- Spills should be covered and protected from stormwater runoff during rainfall to the extent that it doesn't compromise clean-up activities.
- Do not bury spills onsite.
- Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMP"s.
- Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- Contain contaminated water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment



structures, covers, and liners should be repaired or replaced as needed to maintain proper function

Cleanup

- Clean up leaks and spills immediately, or as soon as it is safely practical.
- Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent materials for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly.

Minor Spills

- Minor spills such as small quantities of oil, gasoline, paint, etc, should be controlled by the first responder at the discovery of the spill.
- Use absorbent materials on small spills rather than hosing down or burying the spill.
- Absorbent materials should be promptly removed and disposed of properly.
- Follow the practice below for a minor spill:
 - Contain the spread of the spill.
 - Recover spilled materials.
 - Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

Semi-significant spills may also be controlled by the first responder along with the aid of other personnel such as labors and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately, or as soon as safely practical

- Contain spread of the spill.
- Notify the project foreman immediately.
- If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling absorbent materials and do not let the spill spread widely.
- If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- If the spill occurs during rain, cover spill with tarps or other materials to prevent contaminating runoff.

Significant/Hazardous Spills

- Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- For spills of federal reportable quantities, in conformance with the requirements in 40CFR parts 110, 119 and 302, the contractor should notify the National Response Center at (800) 424-8802.
- Notification should first be made by telephone and followed up with a written report. The services of a spill contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staff have arrived at the job site.
- Other agencies which may need to be contacted include, but are not limited to, City, Police Department, County Sheriff Office, Fire Departments, etc.

Vehicle and Equipment Maintenance

- If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- Regularly inspect onsite vehicles and equipment for leaks and repair immediately. Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles onsite.
- Always use secondary containment, such as drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- Place drip pans or absorbent materials under paving equipment when not in use.
- Use absorbent materials on small spills rather than hosing down or burying the spill.
- Remove the absorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil recycled. As the oil supplier or recycler about recycling oil filters.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat as if it cracked. Put into the containment area until you are sure it is not leaking.
- If fueling must occur on site, used designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- Discourage "topping off" on fuel tanks.
- Always use secondary containment, such as drain pan, when fueling to catch spill/leaks.



Attachment B – Potential Source of Contamination

Attachment B: Potential Sources of Contamination

Asphalt products used on this project

- Preventative measures
 - After placement of asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur. The contractor will be instructed not to place asphalt products on the ground within 48 hours of forecasted rain.

Oil, grease fuel and hydrocarbon fluid contamination from construction equipment and vehicle drippings.

- Preventative measures
 - Vehicle maintenance, when possible, will be performed within the construction staging area.
 - Construction vehicles and equipment shall be checked regularly for leaks and repaired immediately.

Accidental leaks or spills of oil, petroleum products and substances listed under 40 CFR parts 110, 117, and 302 used or stored temporarily on site.

- Preventative measures
 - Contractor to incorporate regular safety meetings, a discussion of spill prevention and appropriate disposal procedures.
 - Contractor's superintendent or representative overseer shall enforce proper spill prevention and control measures.
 - Hazardous material and waste shall be stored in covered containers and protected from vandalism.
 - A stockpile of spill cleanup materials shall be stored on site where it will be readily available.



Miscellaneous trash and litter from construction workers and material wrappings.

- Preventative measures
 - Trash containers will be placed throughout the site to encourage proper trash disposal.

Construction Debris

- Preventative measures
 - Construction debris will be monitored daily by the site contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case-by-case basis.

Spills/Overflow of waste from portable toilets

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





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Attachment C – Sequence of Major Activities

Attachment C: Sequence of Major Construction Activities

The sequence of major construction activities that will disturb earth/soil of the proposed site will be completed in two stages. Initially, the limits of construction of the site will be cleared and grubbed of existing vegetation and a portion of the existing driveway prepared for the proposed site plan. This stage will include installation of temporary erosion controls as outlined on the Erosion Control Plan. The second stage will include the construction of buildings, parking, drives, utilities, landscaping, and site cleanup. Once the site is fully stabilized with vegetation back in place, the temporary erosion controls may be removed. Both stages will disturb approximately 5.74 acres of land.





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Attachment D – Temporary Best Management Practices and Measures

Attachment D: Temporary Best Management Practices and Measures

7a A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

There are no upgradient flows therefore, there are no proposed BMPs are planned specifically for upgradient flows. The proposed existing offsite batch detention pond was sized to treat all onsite flows and impervious cover.

7b A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off-site, including pollution caused by contaminated stormwater runoff from the site.

Site preparations will disturb the largest amount of soil. Therefore, before any of this work can begin, the clearing and grading contractor will be responsible for the installation of all on-site control measures. The methodology for pollution prevention of on-site stormwater will include:

- Erection of silt fence along downgradient boundary of construction activities for temporary erosion and sedimentation controls.
- Installation of stabilized construction entrance/exits to reduce the dispersion of sediment from the site.
- Installation of concrete truck washout.
- Installation of rock berm.
- Installation of construction staging areas.

7c A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

Temporary measures are intended to provide a method of controlling and slowing the flow of runoff from the construction site. By utilizing silt fence staged down gradient and along flow paths, will allow sediment and suspended solids to settle out of stormwater flows and be captured onsite. By containing the sediment and suspended solids within the site, they will not enter the aquifer, surface streams and/or sensitive features that may exist downstream of the site.

7d A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction

BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMPs. The BMPs are providing settlement of suspended solids and containment onsite, but stormwater flows will continue on their natural drainage path. Features discovered during construction will be reported and assessed in accordance with applicable regulations.



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Attachment E – Request to Temporarily Seal A Feature N/A



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Attachment F – Structural Practices

Attachment F: Structural Practices

The structural practices listed below are shown on the Erosion Control Plans and are listed on Attachment D of the Temporary Controls Section of the CZP.

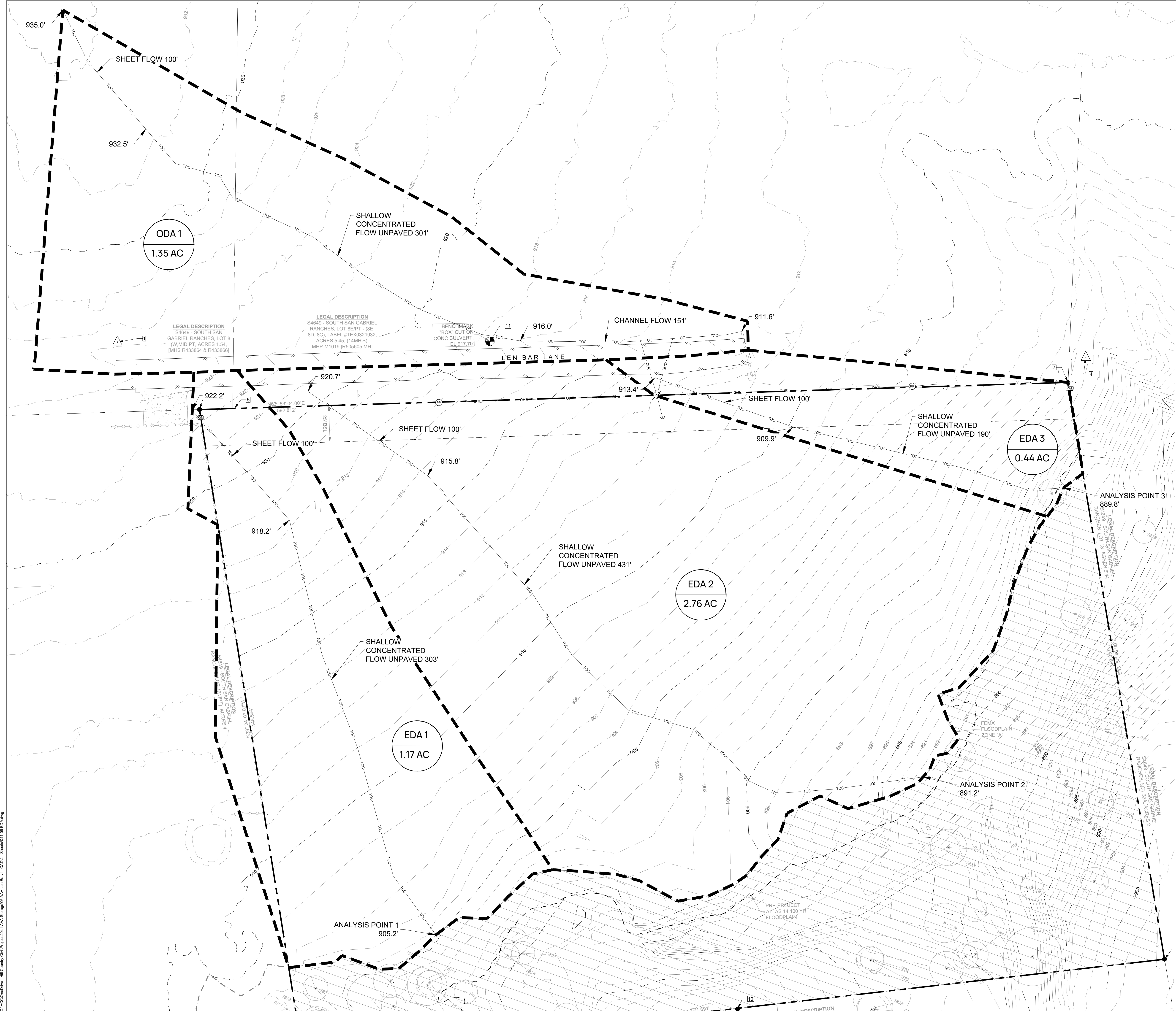
- A stabilized construction entrance with washout pit will be constructed at all locations where vehicular traffic enters and leaves the site. This will reduce sediments which leave the site and are tracked or fall onto adjacent roadways. Currently there are one proposed stabilized construction entrance locations.
- A concrete truck washout will be located next to the stabilized construction entrance to prevent pollutants to stormwater from concrete waste.
- Silt fencing will be installed adjacent to any drainage way which receives sheet flow from upgradient-disturbed areas and along the side slope perimeter of disturbed areas.
- Rock Berm will be installed at the stormwater discharge locations to protect the outfalls and to reduce point discharge.





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Attachment G – Drainage Area Map



01530

0

15

30

60

SCALE (FEET)

LEGEND

●

IRF

▲

CONTROL POINT

⊕

BENCHMARK

⊙

EXIST WATER METER

⊙

EXIST POWER POLE

⊙

EXIST SIGN

⊙

EXIST MAILBOX

⊙

EXIST GUY ANCHOR

PROPERTY LINE

ADJOINER LINE

EXIST CHAINLINK FENCE

EXIST BARBED WIRE FENCE

EXIST EDGE OF PAVEMENT

EXIST EASEMENT

BUILDING SETBACK LINE (BSL)

EXIST OVERHEAD UTILITY

EXIST MAJOR CONTOUR

EXIST MINOR CONTOUR

TIME OF CONCENTRATION

DRAINAGE AREA BOUNDARY

DA #
ACRES

DRAINAGE AREA LABEL

●

EXIST TREE

C:\HCD\Hill-Country-Civil\Projects\041 - AAA - Storage\041 - AAA - Len Bar Lane - CAD\2 - Sheets\041-08 EDA Map.dwg

Hill Country Civil

Engineers • Consultants

3711 Len Bar Lane, Suite 100, New Braunfels, TX 78130

Phone: 817.291.4400

Fax: 817.291.4401

www.hillcountrycivil.com

HCC

ROSS T. CORDER

125401

PROFESSIONAL ENGINEER

10/30/2025

App.

No.

Date

Revisions

LEN BAR BUSINESS PARK

200 Len Bar Lane,
Leander, Williamson County, TX

HCC JOB No. 041-06

DRAWN BY.: RTC

EXISTING DRAINAGE AREA MAP

SHEET No.

13

OF 19



0153060

0

15

30

60

SCALE (FEET)

LEGEND

●

IRF

△

CONTROL POINT

⊙

BENCHMARK

⊕

EXIST WATER METER

⊕

EXIST POWER POLE

⊕

EXIST SIGN

⊕

EXIST MAILBOX

⊕

EXIST GUY ANCHOR

PROPERTY LINE

ADJOINER LINE

EXIST CHAINLINK FENCE

EXIST BARBED WIRE FENCE

EXIST EDGE OF PAVEMENT

EXIST EASEMENT

BUILDING SETBACK LINE (BSL)

EXIST OVERHEAD UTILITY

EXIST MAJOR CONTOUR

EXIST MINOR CONTOUR

PROP MAJOR CONTOUR

PROP MINOR CONTOUR

TIME OF CONCENTRATION

DRAINAGE AREA BOUNDARY

DA #

ACRES

DRAINAGE AREA LABEL

○

EXIST TREE

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125401

10/30/2025

APPROVED

10/30/2025

LEN BAR BUSINESS PARK

200 Len Bar Lane,
Leander, Williamson County, TX

HCC JOB No. 041-06

DRAWN BY: RTC

PROPOSED DRAINAGE AREA MAP

SHEET No.

14

OF 19

C:\HillCountry\Hill Country Civil\Projects\041 - AAA Storage\041 - AAA Len Bar\1 - CAD\2 - Sheets\041-06 PDA.mxd

Copyright Hill Country Civil, LLC 30 OCTOBER 2025

Drainage Area Name:		ODA 1									
Proposed Time of Concentration (min):		13.6		Lag Time		8.2		*Minimum Initial T _c (min):		5	
Segment	Condition	Length (ft)	Elevation (ft)		Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)
			Start	End							
1	Sheet	100.0	935.00	932.50	0.240		N/A	N/A	0.025	11.8	11.8
2	Shall. Conc.	301.0	932.50	916.00			N/A	N/A	0.055	1.3	13.1
3	Channel or Sewer	151.0	916.00	911.60	0.035	4.58	8.00	4.00	0.029	0.5	13.6

Drainage Area Name:			EDA 1										
Proposed Time of Concentration (min):			11.3		Lag Time		6.8		*Minimum Initial T _c (min):			5	
Segment	Condition	Length (ft)	Elevation (ft)		Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*		
			Start	End									
1	Sheet	100.0	922.20	918.20	0.240		N/A	N/A	0.040	9.7	9.7		
2	Shall. Conc.	303.0	918.20	905.20			N/A	N/A	0.043	1.5	11.3		
3	Channel or Sewer	0.0	0.00	0.00		0.00	N/A	N/A	0.000	0.0	11.3		

Drainage Area Name:			EDA 2									
Proposed Time of Concentration (min):			10.9		Lag Time	6.5		*Minimum Initial T _c (min):			5	
Segment	Condition	Length (ft)	Elevation (ft)		Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*	
			Start	End								
1	Sheet	100.0	920.70	915.80	0.240		N/A	N/A	0.049	9.0	9.0	
2	Shall. Conc.	431.0	915.80	891.20			N/A	N/A	0.057	1.9	10.9	
3	Channel or Sewer	0.0	891.20	891.20		0.00	N/A	N/A	0.000	0.0	10.9	

Drainage Area Name:				EDA 3							
Proposed Time of Concentration (min):				10.9		Lag Time 6.5					
				*Minimum Initial T _c (min): 5							
Segment	Condition	Length (ft)	Elevation (ft)		Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*
			Start	End							
1	Sheet	100.0	913.40	909.90	0.240		N/A	N/A	0.035	10.3	10.3
2	Shall. Conc.	190.0	909.90	889.80			N/A	N/A	0.106	0.6	10.9
3	Channel or Sewer	0.0	0.00	0.00		0.00	N/A	N/A	0.000	0.0	10.9

Drainage Area Name:			PDA 1											
Proposed Time of Concentration (min):			11.6		Lag Time		6.9		*Minimum Initial T _c (min):				5	
Segment	Condition	Length (ft)	Elevation (ft)		Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*			
			Start	End										
1	Sheet	100.0	922.20	918.30	0.240		N/A	N/A	0.039	9.8	9.8			
2	Shall. Conc.	330.0	918.30	905.20			N/A	N/A	0.040	1.7	11.6			
3	Channel or Sewer	0.0	0.00	0.00		6.000	N/A	N/A	0.000	0.0	11.6			

Drainage Area Name:			PDA 2									
Proposed Time of Concentration (min):			14.2		Lag Time		8.5		*Minimum Initial T _c (min):			5
Segment	Condition	Length (ft)	Elevation (ft)		Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*	
			Start	End								
1	Sheet	100.0	920.70	918.50	0.240		N/A	N/A	0.022	12.4	12.4	
2	Shall. Conc.	61.0	914.50	914.30			N/A	N/A	0.069	0.2	12.6	
3	Channel or Sewer	747.0	914.30	892.00	0.020	8.11	8.00	4.00	0.030	1.5	14.2	

Drainage Area Name:			PDA 3											
Proposed Time of Concentration (min):			11.2		Lag Time		6.7		*Minimum Initial T _c (min):				5	
Segment	Condition	Length (ft)	Elevation (ft)		Mannings n	Velocity (ft/s)	Wetted Perimeter (ft)	XS Area (sq. ft.)	Slope (ft/ft)	Incremental Time of Travel (min)	Cumulative Time of Travel (min)*			
			Start	End										
1	Sheet	100.0	913.40	910.10	0.240		N/A	N/A	0.033	10.5	10.5			
2	Shall. Conc.	200.0	910.10	889.80			N/A	N/A	0.102	0.6	11.2			
3	Channel or Sewer	0.0	0.00	0.00		6.000	N/A	N/A	0.000	0.0	11.2			

Composite CN								
	CN Number	ODA 1	EDA 1	EDA 2	EDA 3	PDA 1	PDA 2	PDA 3
Open Space	80	1.35	1.16	2.60	0.41	0.51	0.68	0.26
Streets	98	0.00	0.01	0.16	0.03	0.02	2.85	0.03
Total Acreage		1.35	1.17	2.76	0.44	0.53	3.53	0.29
Composity CN Value	80	80	81	81	81	95	95	82

[illegible]

Rainfall Runoff - Summary - City of Austin				
		Flow (cfs)		
Analysis Point	2 yr	10 yr	25 yr	100 yr
ODA 1	3.4	6.4	8.5	12.0
EDA 1	3.3	6.2	8.2	11.6
EDA 2	7.7	14.3	18.9	26.4
EDA 3	1.3	2.5	3.3	4.6
PDA 1	1.5	2.8	3.7	5.2
PDA 2	13.9	21.6	26.8	35.5
PDA 2 W/ POND	4.6	11.3	16.0	23.3
PDA 3	0.9	1.6	2.1	3.0

Rainfall Runoff - Summary - City of Austin				
	Flow (cfs)			
Analysis Point	2 yr	10 yr	25 yr	100 yr
EXISTING AP 1	3.3	6.2	8.2	11.6
PROPOSED AP 1	1.5	2.8	3.7	5.2
EXISTING AP 2	7.7	14.3	18.9	26.4
PROPOSED AP 2	4.6	11.3	16.0	23.3
EXISTING AP 3	4.7	8.9	11.7	16.5
PROPOSED AP 3	4.2	8.0	10.6	15.0



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

N/A



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Attachment I – Inspection and Maintenance for BMPs

Attachment I: Inspection and Maintenance for BMPs

The following list of items outlines and dictates Inspection and Maintenance for BMPs practices. Inspection and maintenance guidelines come from TCEQ RG-348.

In addition to these measures the contractor will be subject to the provisions of the TCEQ General Permit Number TXR 150000 relating to discharges from construction activities.

Temporary Construction Entrance/Exit

1. The entrance should be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repairs and/or cleanout of any measures used to trap sediment.
2. All sediment spilled, dropped, washed, or tracked onto public rights-of-way should be removed immediately by contractor.
3. When necessary, wheels should be cleaned to remove sediment prior to entrance on to public right-of-way.
4. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin
5. All sediment should be prevented from entering any storm drain, ditch, or water course by using approved methods.

Silt Fence

1. Inspect all fencing weekly, and after any rainfall.
2. Remove sediment when buildup reaches 6 inches.
3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
4. Replace or repair any sections crushed or collapsed during construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot to where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
5. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

Concrete Washout

1. Concrete washout facilities should be inspected daily and after heavy rains to check for leaks, identify if any plastic linings and sidewalls have been damaged by construction activities, and determine whether they have been filled to over 75 percent capacity. When the washout container is filled to over 75 percent of its capacity, the washwater should be vacuumed off or allowed to evaporate to avoid overflows. Then when the remaining cementitious solids have hardened, they should be removed and recycled. Damage to the container should be repaired promptly. Before heavy rains, the washout container's liquid level should be lowered, or the container should be covered to avoid an overflow during the rain storm.

Rock Berm

1. Rock filter berm should be inspected weekly and after rainfall events, and at least daily during prolonged rain, to identify issues such as silt accumulation, damage to the wire sheath, or rock displacement.

2. Maintenance includes repairing or replacing damaged sheathing, removing silt when it reaches one-third the berms height (or 1 foot, whichever is less) and disposing of it properly, and generally maintain the berm's shape to prevent failure.





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Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Attachment J: Schedule of Interim and Permanent Soil Stabilization Practices

Onsite construction activities shall be conducted in accordance with the Erosion Control Plan for the project which includes the provisions of the TPDES General Permit TXR150000.

Interim on-site stabilization measures will include minimizing soil disturbances by exposing the smallest practical area of land required for the shortest duration and maximizing the use of natural vegetation. All disturbed soil will be stabilized as per project specifications in accordance with TCEQ Technical Guidance Manual RG-348 (2005).

Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site has temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of the site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is preclude by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

Interim Stabilization Measures will include one or more of the following methods.

1. Temporary Vegetation
2. Installation of blankets or matting material
3. Hydraulic Mulch
4. Sod

The interim and permanent stabilization will be installed in accordance with the standard specifications for the county or city having jurisdiction over the project, whichever is more stringent. If the governing entity does not have specifications for these items, the work shall be completed in compliance with the procedures and specifications outlined in the current Technical Guidance Manual published by the TCEQ.

Permanent Stabilization measures will include one or more of the following methods.

1. Permanent Vegetation including landscape planting with trees, shrubs, or ground cover.
2. Installation of blankets or matting material
3. Hydromulch
4. Grass Sodding
5. Rock or concrete riprap

A copy of the Erosion Control Plan is attached.



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Agent Authorization Form

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

I John Muhich

Print Name
Manager

Title - Owner/President/Other
of JMA Entity LLC

Corporation/Partnership/Entity Name
have authorized Blake Allison, P.E.

Print Name of Agent/Engineer
of Hill Country Civil

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:

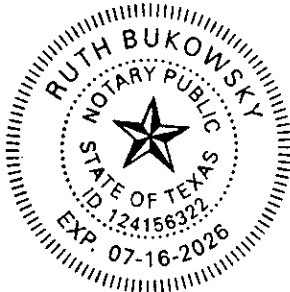
John Gubler
Applicant's Signature

10/15/2025
Date

THE STATE OF Texas §
County of Travis §

BEFORE ME, the undersigned authority, on this day personally appeared John Mubich 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 15 day of October, 2025



Ruth Bukowsky
NOTARY PUBLIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: _____



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Application Fee Form

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Len Bar Business Park

Regulated Entity Location: 200 Len Bar Lane, Leander, TX 78641

Name of Customer: JMA Entity LLC

Contact Person: John Muhich

Phone: 512-452-7789

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☒ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

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	5.74 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: 10/24/2025

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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



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Core Data Form



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.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input checked="" type="checkbox"/> Other Modification	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)					
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input checked="" type="checkbox"/> Change in Regulated Entity Ownership							
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)							
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).							
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>			
JMA Entity LLC							
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits) 85-4269080	10. DUNS Number (if applicable)		
11. Type of Customer:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited		
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:			
12. Number of Employees				13. Independently Owned and Operated?			
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following							
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:							
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant							
15. Mailing Address:	4203 Spinnaker Cv.						
	City	Austin	State	TX	ZIP	78731	ZIP + 4
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)			
				johnsmuhich@gmail.com			

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(512) 452-7789		() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input type="checkbox"/> New Regulated Entity <input checked="" type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information								
<i>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).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Len Bar Buisness Park								
23. Street Address of the Regulated Entity: (No PO Boxes)	200 Len Bar Lane							
	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:								
26. Nearest City						State	Nearest ZIP Code	
<i>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).</i>								
27. Latitude (N) In Decimal:		30.605884			28. Longitude (W) In Decimal:		-97.841423	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	36	21.1818	-97	50	29.1228			
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)			
4225			531130					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Self-storage with office								
34. Mailing Address:	200 Len Bar Lane							
	City	Leander	State	TX	ZIP	78641	ZIP + 4	
35. E-Mail Address:	johnsmuhich@gmail.com							
36. Telephone Number	37. Extension or Code		38. Fax Number (if applicable)					
(512) 452-7789			() -					

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


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

SECTION IV: Preparer Information

40. Name:	Christopher B. Allison		41. Title:	Civil Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(817) 659-9078		() -	blake@hillcountrycivil.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:	JMA Entity LLC.	Job Title:	Manager	
Name (In Print):	John Muhich		Phone:	(512) 452- 7789
Signature:			Date:	1 - / 15 / 2025