MODIFICATION OF A PREVIOUSLY APPROVED EDWARDS AQUIFER CONTRIBUTION ZONE PLAN

FOR

LAKE TRAVIS HIGH SCHOOL CAVALIER STADIUM RENOVATION PROJECT

Prepared for:

Lake Travis Independent School District
3322 Ranch Road 620 South
Austin, TX 78738

Prepared by:

MALONE/WHEELER, INC.
5113 Southwest Parkway, Suite 260
Austin, Texas 78735
TBPE Firm No. 786



June 2025

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)**

  Attachment A - Road Map
  Attachment B - USGS Quadrangle Map
  Attachment C - Project Narrative
  Attachment D - Factors Affecting Surface Water Quality
  Attachment E - Volume and Character of Stormwater
  N/A ~~Attachment F - Suitability Letter from Authorized Agent (if OSSF is proposed)~~
  N/A ~~Attachment G - Alternative Secondary Containment Methods (if AST with an alternative method of secondary containment is proposed)~~
  N/A ~~Attachment H - AST Containment Structure Drawings (if AST is proposed)~~
  N/A ~~Attachment I - 20% or Less Impervious Cover Declaration (if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site)~~
  Attachment J - BMPs for Upgradient Stormwater
  Attachment K - BMPs for On-site Stormwater
  Attachment L - BMPs for Surface Streams
  Attachment M - Construction Plans
  Attachment N - Inspection, Maintenance, Repair and Retrofit Plan
  N/A ~~Attachment O - Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs~~
  Attachment P - Measures for Minimizing Surface Stream Contamination

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

  Attachment A - Spill Response Actions
  Attachment B - Potential Sources of Contamination
  Attachment C - Sequence of Major Activities
  Attachment D - Temporary Best Management Practices and Measures
  N/A ~~Attachment E - Request to Temporarily Seal a Feature, if sealing a feature~~
  Attachment F - Structural Practices
  Attachment G - Drainage Area Map
  Attachment H - Temporary Sediment Pond(s) Plans and Calculations
  Attachment I - Inspection and Maintenance for BMPs
  Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

- **Copy of Notice of Intent (NOI)**
- **Agent Authorization Form (TCEQ-0599), if application submitted by agent**

- **Application Fee Form (TCEQ-0574)**
- **Check Payable to the 'Texas Commission on Environmental Quality'**
- **Core Data Form (TCEQ-10400)**

EDWARDS AQUIFER APPLICATION COVER PAGE (TCEQ-20705)

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.

3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.

4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

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

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.

6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

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

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.

4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: **Lake Travis High School**						**2. Regulated Entity No.: RN101495841**			
3. Customer Name: **Lake Travis Independent School District**						**4. Customer No.: 60783575**			
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):**		124.44	
9. Application Fee:	$10,000		**10. Permanent BMP(s):**			2 Batch Detention Ponds & 1 Sand Filter Pond with alternative media			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			N/A			
13. County:	Travis		**14. Watershed:**			Little Barton Creek			

Application Distribution

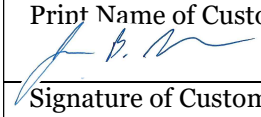
Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which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

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

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

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

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Jesse B. Malone, P.E.
Print Name of Customer/Authorized Agent  06/17/25
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):

MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN FORM (TCEQ-10259)

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.

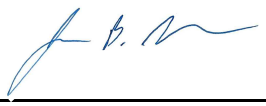
Signature

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: Jesse B. Malone, P.E.

Date: 06/17/25

Signature of Customer/Agent:



Project Information

1. Current Regulated Entity Name: Lake Travis High School
   Original Regulated Entity Name: Lake travis High School/Middle School
   Assigned Regulated Entity Number(s) (RN): 101495851
   Edwards Aquifer Protection Program ID Number(s): 11001572
   ☒ The applicant has not changed and the Customer Number (CN) is: 600783575
   ☐ The applicant or Regulated Entity has changed. A new Core Data Form has been provided.

2. ☒ **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.

3. 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.

CZP Modification Summary	***Approved Project***	***Proposed Modification***
Acres	124.44	124.44
Type of Development	Educational	Educational
Number of Residential Lots	N/A	N/A
Impervious Cover (acres)	46.04	47.68
Impervious Cover (%)	37.00	38.31
Permanent BMPs	-2 Batch Detention Ponds (WQ Pond #1 & WQ Pond #3) -1 Sand Filter with Enhanced Media (WQ Pond #2)	-2 Batch Detention Ponds (WQ Pond #1 & WQ Pond #3) -1 Sand Filter with Enhanced Media (WQ Pond #2) (no changes to the existing BMPs)
Other		

AST Modification Summary	***Approved Project***	***Proposed Modification***
Number of ASTs	N/A	N/A
Other	N/A	N/A

UST Modification Summary	***Approved Project***	***Proposed Modification***
Number of USTs	N/A	N/A
Other	N/A	N/A

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 Projec**t. 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.

MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN

ATTACHMENT A – ORIGINAL APPROVAL LETTER AND APPROVED MODIFICATION LETTERS

Brooke Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 30, 2025

Mr. Robert Winovitch
Lake Travis Independent School District
3324 Ranch Road 620 S
Austin, Texas 78738

Re: Modification of an approved Contributing Zone Plan (CZP-MOD)
Competition Gym Fine Arts and Science Addition; Located at 3322 Ranch Road 620 S; Austin, Travis County, Texas
Edwards Aquifer Protection Program ID No. 11004416; Regulated Entity No. RN101495851

Dear Mr. Winovitch:

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 Malone Wheeler on behalf of the applicant, Lake Travis Independent School District, on April 28, 2025. Final review of the application was completed after additional material was received on May 28, 2025, and May 29, 2025.

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.

BACKGROUND

A CZP was approved by letter dated December 3, 2013 (EAPP ID No. 11-13091001); the plan included the construction of two partial sedimentation/filtration basins (Pond 1 and Pond 2). A CZP Exception was approved by letter dated May 14, 2018 (EAPP ID No. 11001059). An additional CZP was approved by letter dated June 26, 2019 (EAPP ID No. 11001572); the plan included the construction of a batch detention basin (Pond 3). Subsequent CZP-MODs were approved by letter dated April 14, 2022 (EAPP ID No. 11002952), March 5, 2024 (EAPP ID No. 11003876), and July 12, 2024 (EAPP ID No. 11004016); the approval of EAPP ID No. 11003876

included the modification of a partial sedimentation/filtration basin to a batch detention basin (Pond 1) and decommissioning of a partial sedimentation/filtration basin (Pond 2). Part of the Phase 2 improvements approved with EAPP ID No. 11004016 were not constructed, reducing the overall impervious cover (IC) by 0.6 acres.

PROJECT DESCRIPTION

The proposed non-residential project will have an area of approximately 124.44 acres within the Edwards Aquifer Contributing Zone. The modification will include the expansion of the existing fine arts building, construction of a new gymnasium, improvements to parking, drives, sidewalks, utilities and associated appurtenances. The IC will be 46.04 acres (37.29 percent) with 25.26 acres of predevelopment IC. Project wastewater will be disposed of by conveyance to the existing Travis County Water Control District No. 17 Wastewater Treatment Plant.

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, two existing batch detention basins (Pond 1; EAPP ID No. 11003876 and Pond 3; EAPP ID No. 11001572) and a new partial sedimentation/filtration basin with enhanced media (WQ Pond 2), designed using the TCEQ technical guidance, *RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices,* will be constructed/implemented to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 18,087 pounds of TSS generated from the 46.04 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.

SPECIAL CONDITIONS

I. This modification is subject to all the special and standard conditions listed in the approval letter dated July 12, 2024 (EAPP ID No. 11004016).

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.

<u>During Construction:</u>

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.

<u>After Completion of Construction:</u>

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.

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 Colin Gearing of the Edwards Aquifer Protection Program at 512-239-7015 or the regional office at 512-339-2929.

Sincerely,

Monica Reyes

Monica Reyes, Section Manager
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality

MR/cmg

cc: Mr. Jesse Malone, P.E., Malone Wheeler

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 12, 2024

Mr. Robert Winovitch
Lake Travis Independent School District
3324 Ranch Road 620 S.
Austin, TX 78738

Re: Modification of an approved Contributing Zone Plan (CZP-MOD)
Lake Travis High School AG Turf Improvements; Located at 3322 RR 620 S.; Lakeway (ETJ), Travis County, Texas
Edwards Aquifer Protection Program ID: 11004016, Regulated Entity No. RN101495851

Dear Mr. Winovitch:

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 Malone Wheeler, Inc. on behalf of the applicant, Lake Travis Independent School District, on May 22, 2024. Final review of the application was completed after additional material was received on July 9, 2024.

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.

BACKGROUND

A CZP was approved by letter dated December 3, 2013 (EAPP ID No. 11-13091001); the plan included the construction of two partial sedimentation/filtration basins (Pond 1 and Pond 2). A CZP Exception was approved by letter dated May 14, 2018 (EAPP ID No. 11001059). An additional CZP was approved by letter dated June 26, 2019 (EAPP ID No. 11001572); the plan included the construction of a batch detention basin (Pond 3). Subsequent CZP-MODs were approved by letter dated April 14, 2022 (EAPP ID No. 11002952) and March 5, 2024 (EAPP ID No. 11003876); the latter of which included the modification of a partial sedimentation/filtration basin to a batch detention basin (Pond 1).

PROJECT DESCRIPTION

The proposed school project will have an area of approximately 124.44 acres. The modification will include the construction of a new pig barn and fire access drive, expansion of the existing welding shop, and the conversion of existing sport fields to self-treating turf. The additional impervious cover (IC) will be 0.29 acres, Pre-Rule impervious cover is 25.26 acres for a total of 44.24 acres (35.5 percent) of IC. No wastewater will be generated by this project.

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, two existing batch detention basins (Pond 1; EAPP ID No. 11001572 and Pond 3; EAPP ID No. 11003876), designed using the TCEQ technical guidance, *RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices,* will be implemented to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 16,520 pounds of TSS generated from the 44.24 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.

SPECIAL CONDITIONS

I. This modification is subject to all the special and standard conditions listed in the approval letters listed above.

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.

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 Arturo Maldonado Jr. of the Edwards Aquifer Protection Program at 512-239-7087 or the regional office at 512-339-2929.

Sincerely,

Monica Reyes

Monica Reyes, Section Manager
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality

MR/am

cc: Mr. Jesse B. Malone, P.E., Malone Wheeler, Inc.

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 5, 2024

Mr. Robert Winovitch
Lake Travis Independent School District
3324 Ranch Road 620 S.
Austin, Texas 78738

Re: Modification of an approved Contributing Zone Plan (CZPMOD)
Lake Travis High School; Located at 3325 RR 620 S.; Lakeway (ETJ), Travis County, Texas
Edwards Aquifer Protection Program ID: 11003876, Regulated Entity No. RN101495851

Dear Mr. Winovitch:

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 Malone Wheeler, Inc. on behalf of the applicant, Lake Travis Independent School District, on January 30, 2024. Final review of the application was completed after additional material was received on March 4, 2024.

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.

BACKGROUND

A CZP was approved by letter dated December 3, 2013 (EAPP ID No. 11-13091001); the plan included the construction of two partial sedimentation/filtration basins. (Pond 1 and Pond 2). A CZP Exception was approved by letter dated May 14, 2018 (EAPP ID No. 11001059). An additional CZP was approved by letter dated June 26, 2019 (EAPP ID No. 11001572); the plan included the construction of a batch detention basin (Pond 3). A CZPMOD was approved by letter dated April 14, 2022 (EAPP ID No. 11002952).

PROJECT DESCRIPTION

The proposed school project will have an area of approximately 124.44 acres. The modification will include changing Pond 1 from a partial sedimentation/filtration basin to a batch detention basin, complete removal of Pond 2, rerouting of stormwater for to Pond 1 or Pond 3, demolition, construction of parking areas, and associated appurtenances. The modification will add 4.78 acres of new impervious cover; the total impervious cover will be 43.95 acres (35.3 percent). No wastewater will be generated by this project.

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, a batch detention basin modified from an existing partial sedimentation/filtration basin (Pond 1) and an existing batch detention basin (Pond 3), designed using the TCEQ technical guidance, *RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices,* will be implemented to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 16,015 pounds of TSS generated from the 43.95 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.

SPECIAL CONDITIONS

I. This modification is subject to all the special and standard conditions listed in the approval letters dated listed above.

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.

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. James “Bo” Slone, P.G. of the Edwards Aquifer Protection Program at (512) 239-6994 or the regional office at 512-339-2929.

Sincerely,

Lillian Butler

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

LIB/jcs

cc: Mr. Jesse B. Malone, P.E., Malone Wheeler, Inc.

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 14, 2022

Mr. Robert Winovitch
Lake Travis Independent School District
3324 Ranch Road 620 S
Austin, Texas 78738

Re: Edwards Aquifer, Travis County

NAME OF PROJECT: Lake Travis High School; Located 3322 RR 620 S, Austin, Texas

TYPE OF PLAN: Request for Modification of an Approved Contributing Zone Plan (CZP-MOD); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer

Edwards Aquifer Protection Program ID No. 11002952; Regulated Entity No. RN101495851

Dear Mr. Winovitch:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP-MOD for the above-referenced project submitted to the Austin Regional Office by Malone Wheeler, Inc. on behalf of Lake Travis Independent School District on February 23, 3022. Final review of the CZP was completed after additional material was received on April 8, 2022. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected, and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed, and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in 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 Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) 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 requested.*

BACKGROUND

A Contributing Zone Plan (CZP) was approved by letter dated December 3, 2013 (EAPP ID No. 11-1309001). The plan included the construction of two partial sedimentation/filtration basins (Pond 1 and Pond 2) for water quality. A CZP-MOD was approved by letter dated June 26, 2019 (EAPP ID No. 11001572). The CZP-MOD include ethe construction of a batch detention basin (Pond 3) for water quality.

PROJECT DESCRIPTION

The proposed non-residential project will have an area of approximately 124.41 acres. It will include a new storm collection system, addition to the existing storm system, additional parking, a new plaza, modification to a detention basin weir, modification of the existing batch detention basin (Pond 3) weir, and sidewalk additions. The impervious cover will be 39.17 acres (31.5 percent). No wastewater will be generated by this project.

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, two partial sedimentation/filtrations basins (Pond 1 and Pond 2) and a batch detention basin (Pond3), designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be used to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 12,943 pounds of TSS generated from the 124.41 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

SPECIAL CONDITIONS

I. This modification is subject to all Special and Standard Conditions listed in the CZP approval letters dated December 3, 2013, and June 26, 2019.

II. All permanent pollution abatement measures shall be operational prior to occupancy of the facility.

III. All sediment and/or media removed from the water quality basins during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.

6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) 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. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. 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.

<u>During Construction:</u>

8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
9. 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 significantly reduced. 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).
10. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
11. 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.
12. 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.
13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 5, above.

<u>After Completion of Construction:</u>

14. Owners of permanent BMPs and measures must ensure that the 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 Austin Regional Office within 30 days of site completion.

15. 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 (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. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
17. A Contributing Zone Plan approval or extension will expire, and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact James “Bo” Slone, P.G. of the Edwards Aquifer Protection Program of the Austin Regional Office at (512) 339-2929.

Sincerely,

Lillian Butler

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

LIB/jcs

Enclosure: Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Toby Baker, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 26, 2019

Mr. Robert Winovitch
Lake Travis Independent School District
3324 Ranch Road 620 S
Austin, TX 78738

Re: Edwards Aquifer, Travis County

NAME OF PROJECT: Lake Travis High School, located at 3322 RR 620 S, Austin, Texas

TYPE OF PLAN: Request for Approval of a Contributing Zone Plan (CZP)
30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Edwards Aquifer Protection Program ID (EAPP) No. 11001572; Regulated Entity No. RN101495851

Dear Mr. Winovitch:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP Application for the above-referenced project submitted to the Austin Regional Office by Malone Wheeler, Inc. on behalf of Lake Travis Independent School District on May 21, 2019. Final review of the CZP was completed after additional material was received on June 24, 2019. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in 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 Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) 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 requested.*

BACKGROUND

The Lake Travis High School/Middle School CZP (EAPP ID No. 11-13091001), approved by letter dated December 3, 2013, included the use of two partial sedimentation/filtration basins to provide permanent stormwater treatment for the portions of the school constructed after June 1, 1999.

PROJECT DESCRIPTION

The proposed non-residential project will have an area of approximately 124.41 acres. It will include multiple site improvements such as the reconstruction of a main drive, a new parking lot, utility improvements, a batch detention basin, and new sidewalks. The site is partially on the Contributing Zone and partially on the "No Zone." The proposed improvements will add 3.69 acres of impervious cover on the Contributing Zone; therefore, the total impervious cover on the Contributing Zone will increase to 38.81 acres (31.20 percent). No wastewater will be generated by this project.

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, two existing partial sedimentation/filtration basins (EAPP ID No. 11-13091001) and a proposed batch detention basin, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be utilized to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 3,212 pounds of TSS generated from the 3.69 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

SPECIAL CONDITIONS

I. All permanent pollution abatement measures shall be operational prior to occupancy of the facility.

II. All sediment and/or media removed from the water quality basin during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved CZP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the

payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.

6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) 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. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. 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.

<u>During Construction:</u>

8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
9. 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 significantly reduced. 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).
10. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
11. 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.
12. 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.
13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 5, above.

After Completion of Construction:

14. Owners of permanent BMPs and measures must insure that the 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 Austin Regional Office within 30 days of site completion.
15. 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 (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. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved CZP. If the new owner intends to commence any new regulated activity on the site, a new CZP that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
17. A CZP approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new CZP must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Ms. Michelle Zvonkovic of the Edwards Aquifer Protection Program of the Austin Regional Office at (512) 339-2929.

Sincerely,

Robert Sadlier, Section Manager
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality

RCS/maz

Enclosure: Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN

ATTACHMENT B – NARRATIVE OF PROPOSED MODIFICATION

This application is a proposed modification to a previously modified Contributing Zone Plan approved May 30, 2025 for Lake Travis High School. The original CZP was approved June 26, 2019.

This proposed modification is for a project that includes renovation of the existing competition stadium, new parking, and a new internal access driveway.

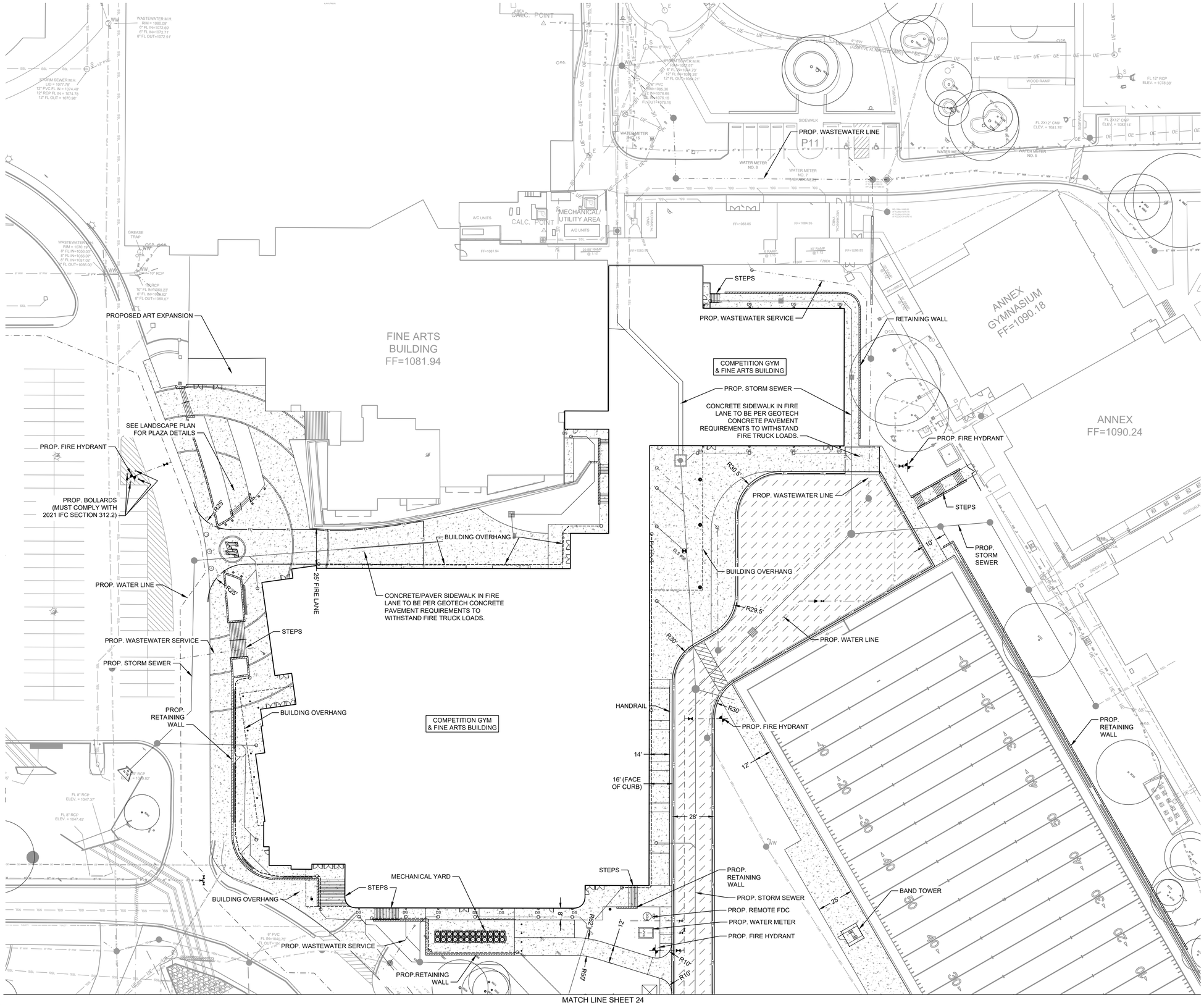
There are three previously approved permanent BMPs, two batch detention ponds and one sand filter with enhanced media. There are no proposed changes to the existing permanent BMPs.

The new impervious cover associated with this project does not drain to one of the existing permanent BMPs. Since portions of this campus were constructed before the Edwards Aquifer Protection Program rules came into effect, some of the existing impervious cover is not required to be treated by one of the permanent BMPs. To offset the new impervious cover, treatment is provided for previously untreated existing impervious cover on the site. Treating existing impervious cover to offset new impervious cover that doesn't drain to one of the permanent BMPs has been acceptable by TCEQ previously on this campus, most recently with the modification approved on July 12th 2024.

MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN

ATTACHMENT C – CURRENT SITE PLAN OF THE APPROVED PROJECT

(Please refer to the attached Construction Plans of the previously approved project)


WASTEWATER M.H.
RIM = 1083.09'
6" FL IN=1072.69'
6" FL IN=1072.71'
8" FL OUT=1072.51'
STORM SEWER M.H.
I.D. = 1077.78'
12" PVC FL IN = 1074.48'
12" RCP FL IN = 1074.78
12" FL OUT = 1070.98'
GREASE TRAP
WASTEWATER M.H.
RIM = 1070.79'
8" FL IN=1056.03'
8" FL IN=1056.07'
8" FL IN=1057.02'
8" FL OUT=1056.00'
15" RCP
15" RCP
10" FL IN=1060.23'
6" FL IN=1059.62'
8" FL OUT=1060.07'
PROPOSED ART EXPANSION
FINE ARTS BUILDING FF=1081.94
SEE LANDSCAPE PLAN FOR PLAZA DETAILS
PROP. FIRE HYDRANT
PROP. BOLLARDS (MUST COMPLY WITH 2021 IFC SECTION 312.2)
R35'
BUILDING OVERHANG
PROP. WATER LINE
R25'
25' FIRE LANE
CONCRETE/PAVER SIDEWALK IN FIRE LANE TO BE PER GEOTECH CONCRETE PAVEMENT REQUIREMENTS TO WITHSTAND FIRE TRUCK LOADS.
STEPS
PROP. WASTEWATER SERVICE
PROP. STORM SEWER
PROP. RETAINING WALL
BUILDING OVERHANG
COMPETITION GYM & FINE ARTS BUILDING
FL 8" RCP ELEV. = 1047.37'
FL 8" RCP ELEV. = 1047.45'
8" PVC FL IN=1040.75' FL OUT=10
PROP. WASTEWATER SERVICE
PROP.RETAINING WALL
MECHANICAL YARD
STEPS
STEPS
BUILDING OVERHANG
AREA DRAIN
CALC. POINT
A/C UNITS
MECHANICAL UTILITY AREA
A/C UNITS
FF=1083.85
FF=1084.35
FF=1086.85
FF=1083.85
FF=1081.94
21.88' RAMP @ 1:12
8' RAMP @ 1:12
30' RAMP @ 1:12
F1B08
F1B09
F1B10
F1B11
F1B12
F1B13
F1B14
F1B15
F1B16
F1B17
F1B18
F1B19
F1B20
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F1B28
F1B29
F1B30
F1B31
F1B32
F1B33
F1B34
F1B35
F1B36
F1B37
F1B38
F1B39
F1B40
F1B41
F1B42
F1B43
F1B44
F1B45
F1B46
F1B47

MATCH LINE SHEET 23

EXISTING WQ POND #1

EXISTING WQ POND #3

EXISTING DETENTION POND #2

EXISTING DETENTION

PROP. STORM SEWER

PROP. STORM SEWER

PROP. WATER LINE

PROP. RETAINING WALL

PROP. RETAINING WALL

8' SIDEWALK

5' SIDEWALK

P2

LIFT STATION

FLOW METER INSIDE MANHOLE

AREA DRAIN

LANDSCAPE CONTRACTOR MAINTENANCE SHED

8" PVC TRIM=1047.10' 8" FL IN=1039.20' 8" FL OUT=1039.10' 6" FL IN=1039.73'

6" PVC FL IN=1041.31' FL OUT=1041.24'

F.F.E.=1053.50

R30'

R40'

R21.5'

R53'

R15'

R25'

R8'

R2'

28'

8'

5'

N 90°E

7

LEGEND

- PROP. CURB AND GUTTER
- PROP. SIDEWALK
- PROP. FIRE LANE
- PROP. METAL FENCE
- PROP. WASTEWATER LINE
- PROP. STORM SEWER
- PROP. WATER LINE
- PROP. ASPHALT
- PROP. CONCRETE
- PROP. STORM INLET
- PROP. STORM MANHOLE
- PROP. FIRE HYDRANT
- PROP. GRATE INLET
- PROP. AREA INLET
- PROP. RETAINING WALL
- PROP. HANDRAIL

0 30'
SCALE: 1" = 30'

NOTES:

1. REFER TO GENERAL NOTES SHEET FOR PAVEMENT SECTIONS.
2. UPHILL CURBS SHALL BE SPILL CURBS.
3. REFER TO LANDSCAPE PLANS FOR HANDRAIL AND GUARDRAIL DETAILS.

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL
COMPETITION GYM & FINE ARTS
3324 RANCH ROAD 620 SOUTH

SITE PLAN 2

MALONE★WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED PROFESSIONAL ENGINEER
5/13/25

DESIGN BY :	SGC
CHECKED BY :	AV
APPROVED BY :	JBM
DATE :	5/13/2025

SHEET 24
OF 51

F:\LTISD OVERALL\PROJECTS\23-050-AUS LTHS 620\DRAWINGS\PLANSET\LTHS COMP GYM\DRAWINGS\PLANSET\24 SITE PLAN 2.DWG, 5/13/2025, SCOTT COLE

f:\ltisd overall\Projects\23-050-aus lths 620\Drawings\Planset\lths comp gym\Drawings\Planset\24 SITE PLAN 2.dwg, 5/13/2025 12:00:40 PM, SCOTT

DURING SUMMER CONSTRUCTION, SPILLMAN LOOP TRAFFIC PATTERNS WILL BE MODIFIED TO TWO WAY TRAFFIC FOR THIS PORTION OF SPILLMAN LOOP. CONTRACTOR RESPONSIBLE FOR SIGNAGE & OTHER REQUIRED TRAFFIC CONTROLS AS REQUIRED BY LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT.

RESTRIPE ALL NEWLY PAVED AREAS TO MATCH ORIGINAL CONDITIONS

PROPOSED UNDERGROUND ELECTRIC SEE MEP PLANS FOR DETAILS

PROPOSED STORM SEWER MANHOLE

PROPOSED 12" WATER LINE

PROPOSED CROSSWALK (SEE DETAILS)

BEGIN PROPOSED CURB REPLACEMENT

PROPOSED 8' SIDEWALK

PROPOSED STORM SEWER

END PROPOSED CURB REPLACEMENT

PROPOSED BOLLARDS (SEE DETAILS)

EXISTING UNDERGROUND ELECTRIC

PROPOSED CURB INLET

EXISTING HYDRANT

PROPOSED OIL SEPARATOR

EXISTING UNDERGROUND ELECTRIC

PROPOSED CURB INLET

EXISTING 12" WATER LINE

PROPOSED GRATE INLET

PROPOSED STORM MANHOLE

PROPOSED SCIENCE ADDITION

PROPOSED NEUTRALIZATION TANK

EXISTING HYDRANT

PROPOSED STORM SEWER MANHOLE

WW CONNECTION POINT

PROPOSED STORM SEWER MANHOLE

PROPOSED STORM TRENCH DRAIN

SPILLMAN LOOP

BUILDING 3
HIGH SCHOOL
MAIN BUILDING

P9

P1

R7

N

0 30'

SCALE: 1" = 30'

LEGEND

- EXIST. CURB AND GUTTER
- EXIST. PUBLIC UTILITY EASEMENT
- EXIST. 8" WASTEWATER LINE
- PROP. WASTEWATER LINE
- EXIST. WATER LINE
- PROP. WATER LINE
- EXIST. STORM SEWER
- PROP. STORM SEWER
- EXIST. SIGN
- EXIST. UNDERGROUND ELEC.
- PROP. UNDERGROUND ELEC.
- EXIST. FENCE
- TREE TO REMAIN
- TREE TO BE REMOVED

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2025 SCIENCE ADDITION
3324 RANCH RD 620 SOUTH AUSTIN, TEXAS 78738

SCIENCE SITE PLAN

MALONE★WHEELER INC. SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/6/2025

DESIGN BY :	SGC
CHECKED BY :	AV
APPROVED BY :	JBM
DATE :	5/27/2025

SHEET 14
OF 32

F:\LITISD\OVERALL\PROJECTS\23-030-AUS LTHS 620\DRAWINGS\P\LANSET\LTHS SCIENCE ADDITION\DRAWINGS\P\LANSET\15 BUS LOOP SITE PLAN.DWG, 6/5/2025, ANTHONY VINCENT

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

Contributing Zone Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

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

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

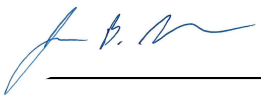
Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Contributing Zone Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Jesse B. Malone, P.E.

Date: 06/17/25

Signature of Customer/Agent:



Regulated Entity Name: Lake Travis High School

Project Information

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

   Contact Person: Robert Winovitch
   Entity: Lake Travis Independnt School district
   Mailing Address: 3324 Ranch Road, 620 S
   City, State: Austin, TX Zip: 78738

   Telephone: 512-533-6000

5. Agent/Representative (If any):

   Contact Person: Jesse B. Malone, P.E.
   Entity: Malone Wheeler Inc.
   Mailing Address: 5113 southwest Parkway, Suite 260
   City, State: Austin, TX Zip: 78735
   Telephone: 512-899-0601 Fax: 512-899-0655
   Email Address: jessem@malonewheeler.com

6. Project Location:

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

   Lake Travis High School - 3324 Ranch Road 620 S, Austin, TX 78738

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: Existing Educational Institution

12. The type of project is:

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

13. Total project area (size of site): 124.44 Acres

Total disturbed area: 9.56 Acres

14. Estimated projected population: N/A

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

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	*Sq. Ft.*	*Sq. Ft./Acre*	*Acres*
Structures/Rooftops		÷ 43,560 =	
Parking		÷ 43,560 =	
Other paved surfaces	2,076,918	÷ 43,560 =	47.68
Total Impervious Cover	2,076,918	÷ 43,560 =	47.68

Total Impervious Cover 47.68 **÷ Total Acreage** 124.44 **X 100 =** 38.31**% Impervious Cover**

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

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

For Road Projects Only

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

☒ N/A

18. Type of project:

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

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

☐ Concrete
☐ Asphaltic concrete pavement
☐ Other: _____

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

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

21. Pavement Area:

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

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

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

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

☒ N/A

26. Wastewater will be disposed of by:

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

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

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

☒ Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the Travis County Water Control District No. 17 (name) Treatment Plant. The treatment facility is:

☒ Existing.
☐ Proposed.

this public treatment plant is not located in the contributing or recharge zones

☐ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

☒N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

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

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

Total x 1.5 = _____ Gallons

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

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

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

Table 3 - Secondary Containment

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

Total: _____ Gallons

30. Piping:

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

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

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

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

☐ Dispenser clearly labeled

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

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

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

Site Plan Requirements

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

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

    Site Plan Scale: 1" = 120'.

35. 100-year floodplain boundaries:

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

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

    The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA FIRM Map No. 48453C0405J dated January 22, 2022 (Travis County).

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

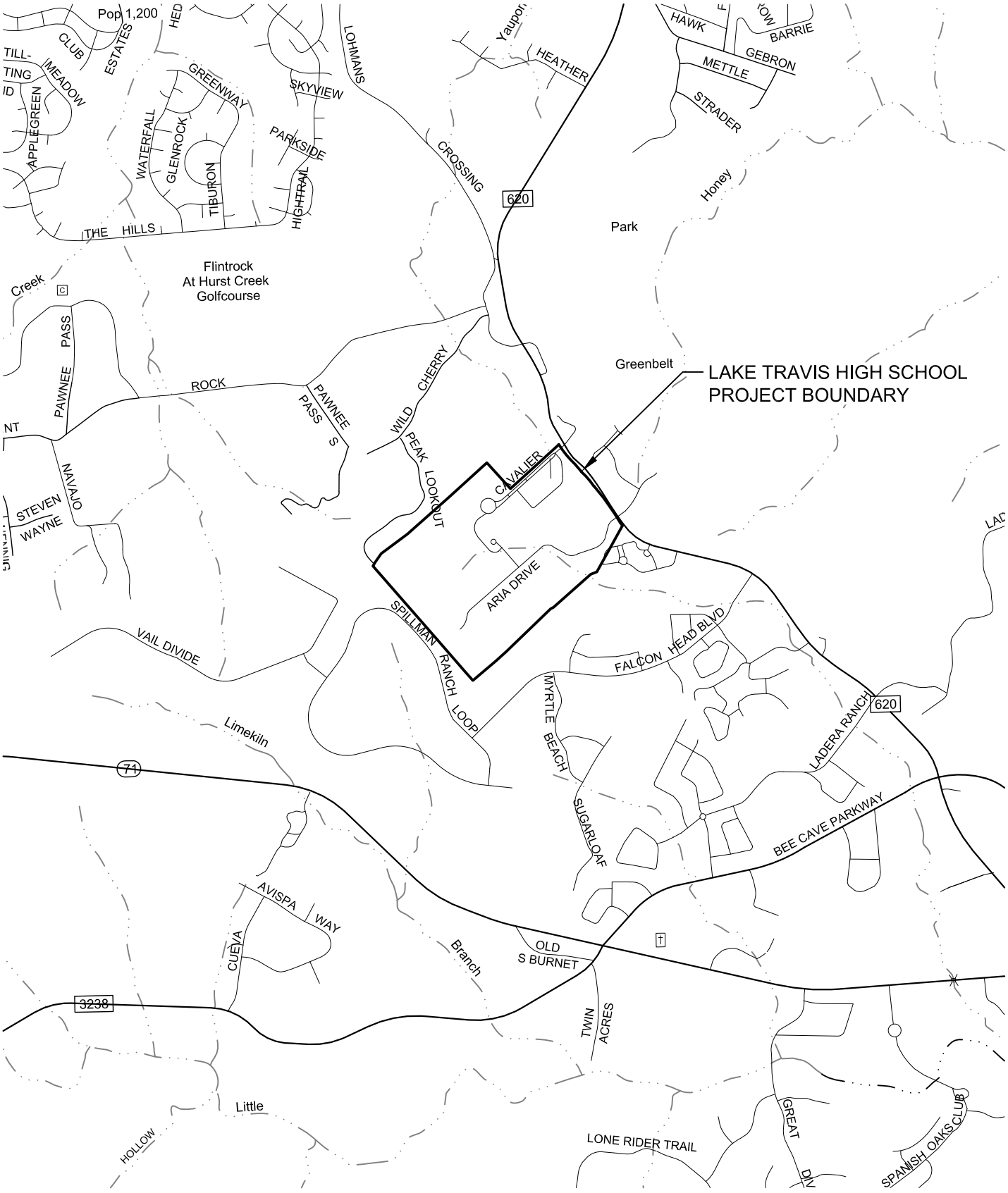
61. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.

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.

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT A – ROAD MAP



N

0 2000'

SCALE: 1" = 2000'

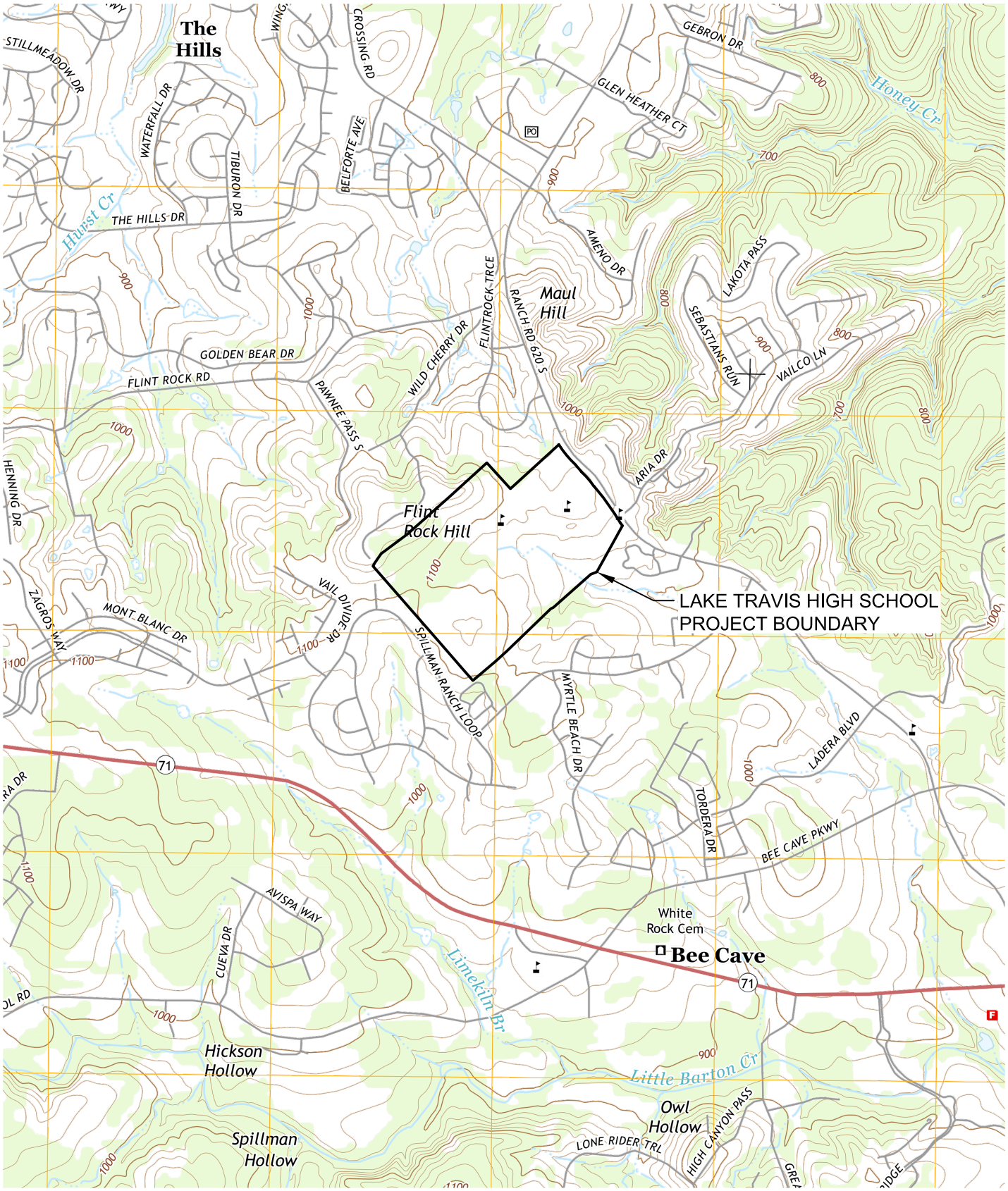
ROAD MAP

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT B – USGS QUADRANGLE MAP



N

0 2000'

SCALE: 1" = 2000'

USGS MAP

QUADRANGLE: BEE CAVE

MALONE ★ WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT C – PROJECT NARRATIVE

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT C - Project Narrative

The improvements proposed by this project fall within the limits of the 155.74-acre Lake Travis High School property. The property has been developed in several stages as the result of several projects being constructed over a long period of time. This property is split between two drainage basins, one to the north and one to the south. Each basin drains to an existing detention pond. The northern basin lies outside of the Edwards Aquifer Contributing Zone. The southern basin lies within the Contributing Zone and totals 124.44 acres.

This application is a proposed modification to a previously modified Contributing Zone Plan approved May 30, 2025 for Lake Travis High School. The original CZP was approved in 2019. The most recently approved modification was for the construction of a new competition gym and fine arts building and a new Science building addition. The most recently approved CZP also included the construction of a new sand filter with enhanced media BMP known as WQ Pond #2.

There are three previously approved permanent BMPs, two batch detention ponds (WQ Ponds #1 & #3) and one sand filter with enhanced media (WQ Pond #2). There are no proposed changes to the existing permanent BMPs.

This modification application is for the renovation of the existing competition stadium, new parking, and a new emergency access drive aisle.

This project will increase the impervious cover on site by 1.64 acres.

The new impervious cover associated with this project does not drain to one of the existing permanent BMPs. Since portions of this campus were constructed before the Edwards Aquifer Protection Program rules came into effect, some of the existing impervious cover is not required to be treated by one of the permanent BMPs. To offset the new impervious cover, treatment is provided for previously untreated existing impervious cover on the site. Treating existing impervious cover to offset new impervious cover that doesn't drain to one of the permanent BMPs has been acceptable by TCEQ previously on this campus, most recently with the modification approved on July 12th 2024.

The treatment required for the additional impervious cover will be provided in the existing batch detention pond known as WQ Pond 1. This pond was modified with the 2024 Phase 1 projects to account for future impervious cover so no changes to any of the BMPs are required to provide the required TSS removal.

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

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT D - Factors Affecting Surface Water Quality

The proposed improvements will contain additional building cover, asphalt pavement drives, concrete sidewalks, and driveways that will increase the impervious cover for the site and school campus. Due to the impervious cover areas, potential factors could affect surface water and groundwater quality. They are as follows:

1. Driveways, streets, and drives may potentially collect fluids such as oil, fuel, etc. from vehicles and can be conveyed downstream of the site.
2. Trash may contain commercial products or chemicals that could potentially leak and be conveyed downstream of site.
3. During construction activities, vehicle and equipment maintenance can generate pollutants that can also be conveyed downstream of the site.
4. During construction activities, soil disturbing activities can expose pollutants and be conveyed downstream.
5. During construction activities, materials used for construction can be moved downstream due to surface stormwater and distribute pollutants.

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

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT E - Volume and Character of Stormwater

Following the projects included with this plan, there will be 47.68 acres of impervious cover at Lake Travis High School within the contributing zone. Runoff will be conveyed to the existing detention ponds for a majority of the site via overland flow and storm sewer systems. The existing detention ponds will reduce the runoff from the campus to be less than predeveloped flows. The type of pollutants produced by this campus will be consistent with other school facilities.

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT J – BMPs FOR UPGRADIENT STORMWATER

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT J – BMPs for Upgradient Stormwater

In accordance with Texas Commission on Environmental Quality (TCEQ), permanent BMPs or measures are required to prevent pollution of surface water, groundwater or stormwater that originates upgradient from this site or flows across this site. The proposed BMP TSS calculation will incorporate this up-gradient drainage area.

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

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT K – BMPs for On-Site Stormwater

Due to the proposed impervious cover for the school campus improvements being over the 20% threshold, permanent BMPs and measures will be required to prevent pollution caused by the contaminated stormwater runoff that originates from on-site and flows off site. The permanent BMPs and measures for the proposed project are the following:

- Two existing batch detention ponds (WQ Ponds #1 and WQ Pond #3) that captures surface stormwater and treats pollutants during a specific time and discharges flows at a rate in which pollutants are captured within the batch detention pond.

- One existing sand filter BMP with enhanced media, WQ Pond #2, that captures surface stormwater and treats pollutants during a specific time and discharges flows at a rate in which pollutants are captured within the enhanced media filter. This pond was designed as a biofiltration pond to comply with LCRA requirements.

Additionally, temporary BMPs and measures will be implemented during the construction of the school campus improvements to prevent pollution from being conveyed downstream of the construction activity. The temporary BMPs and measures are as follows:

- Concrete Washout Areas: A pit containment area to prevent or reduce the discharge of pollutants from concrete waste.
- Silt Fence: A barrier consisting of geotextile fabric supported by metal posts to prevent soil and sediment loss from a site.
- Rock Berms: A structure of 3-to-5-inch diameter rock secured with a woven wire sheath to serve as a check dam in areas of concentrated flow, to intercept sediment-laden runoff, detain the sediment and release of the water in sheet flow.
- Seeding: Seeding of disturbed areas to stabilize grades and minimize silt erosion; applied to areas expected to not have any construction activity for at least 21 days.
- Inlet Protection: A barrier to prevent sediment and construction debris from entering existing storm water inlets.

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT L – BMPs FOR SURFACE STREAMS

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT L – BMPs for Surface Streams

As stated in the previous attachment sections and on the construction plans, temporary and permanent BMPs & measures will be utilized for the proposed project site to prevent pollution from entering surface streams.

Temporary BMPs to be implemented are concrete washout areas, silt fences, rock berms, inlet protection, and seeding. These BMPs will mitigate pollution and sedimentation from being conveyed offsite or downstream to surface streams.

Permanent BMPs have been implemented that will service proposed improvements, these improvements are two existing batch detention ponds & an existing sand filter with enhanced media. These BMPs will permanently mitigate pollution and sediments from being conveyed offsite or downstream to surface streams.

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT M – CONSTRUCTION PLANS

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT M – Construction Plans

The construction plans and design calculations for the existing permanent BMP and measures for the proposed project have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. The design calculations, construction notes, proposed BMP measures and appropriate details are show on the construction plans.

The construction plans are provided following this page.

ENGINEER'S CERTIFICATION:

I, THE UNDERSIGNED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, THAT ALL REQUIRED DOCUMENTS ENCLOSED ARE ACCURATE AND COMPLETE AND THAT THE PROVISIONS CONTAINED ON THIS PLAN COMPLY WITH THE DEVELOPMENT ORDINANCES AND DRAINAGE POLICIES ADOPTED BY TRAVIS COUNTY AND OTHER FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS IN EFFECT ON THIS DATE.

SUBMITTED FOR APPROVAL BY
MALONE/WHEELER, INC.

_____ 6/26/2025
DATE

JESSE B. MALONE
REGISTERED PROFESSIONAL ENGINEER NO. 108734
MALONE/WHEELER, INC.
5113 SOUTHWEST PARKWAY,
SUITE 260
AUSTIN, TEXAS 78735
OFFICE: 512-899-0601
FAX: 512-899-0655
FIRM REGISTRATION NO. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER

REVIEWED BY:

_____ _____
TRAVIS COUNTY TRANSPORTATION AND NATURAL RESOURCES DATE

_____
TRAVIS COUNTY TRANSPORTATION AND NATURAL RESOURCES PERMIT NUMBER

_____ _____
TRAVIS COUNTY EMERGENCY SERVICES DISTRICT NO. 6 DATE

_____ _____
TRAVIS COUNTY W.C.I.D. #17 PROJECT NUMBER 2025- DATE

GENERAL PLAN NOTES:

1. THIS PROJECT IS LOCATED IN THE LITTLE BARTON CREEK WATERSHED.
2. ACCORDING TO THE FEDERAL FLOOD INSURANCE ADMINISTRATION FIRM PANEL NO. 48453C0405J, DATED JANUARY 22, 2022, FOR TRAVIS COUNTY, TEXAS, NO PORTION OF THIS TRACT IS WITHIN A 100-YEAR FLOODPLAIN.
3. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND WERE COMPILED FROM INFORMATION PROVIDED BY THE OWNER & FROM AN ABOVE GROUND SITE SURVEY. NOT ALL UNDERGROUND UTILITIES MAY BE SHOWN THEREFORE THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
4. THE AREA WITHIN THE LIMITS OF CONSTRUCTION IS 9.56 ACRES. THE TOTAL DISTURBED AREA IS 9.56 ACRES.
5. A TPDES/SWPPP IS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. WATER, WASTEWATER AND POTABLE IRRIGATION IMPROVEMENTS ARE PERMITTED BY WCID 17.
7. THIS PROJECT IS LOCATED WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE.
8. THE BERM AND OUTLET STRUCTURE FOR EXISTING DETENTION POND 2 HAS BEEN ADDED TO THE TEXAS INVENTORY OF DAMS AND ASSIGNED THE IDENTIFIER TX09744.
9. DOWNSTREAM RECEIVING WATERS: BARTON CREEK (SEGMENT ID 1430)
10. THE OWNER'S ENGINEER WILL MAKE PERIODIC SITE VISITS AND OBSERVATIONS DURING CONSTRUCTION TO ENSURE ADEQUACY OF THE DESIGN AND THE SAFETY OF STRUCTURES IN COMPLIANCE WITH THE ISSUANCE OF THE CONSTRUCTION SUMMARY REPORT AND ENGINEERING CONCURRENCE LETTER AS REQUIRED AS PART OF THE PROJECT CLOSE-OUT PROCESS.
11. ALL STRUCTURAL FIELD CHANCES REQUIRE A PLAN REVISION APPROVAL IN WRITING BEFORE COMMENCEMENT OF THE WORK.
12. THE ENGINEER WHO PREPARED THESE PLANS IS RESPONSIBLE FOR THEIR ADEQUACY. IN APPROVING THESE PLANS, TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

PRE-CONSTRUCTION NOTES:

PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING, ENSURE THAT ALL REQUIRED NOTICES AND PERMITS ARE POSTED AND THE CERTIFIED INSPECTOR FOR YOUR SITE HAS UPLOADED A SWP3 INSPECTION REPORT TO YOUR ACCOUNT THAT CONFIRMS THAT THE FIRST PHASE OF TEMPORARY ESC HAVE BEEN INSTALLED PER PLANS AND SPECIFICATIONS.

FAILURE TO FOLLOW THE PRE-CONSTRUCTION MEETING REQUIREMENTS MAY RESULT IN WORK STOPPAGE AND ADDITIONAL PERMIT FEES.

SPECIAL PRE-CON NOTES:

1. PROVIDE 48 HR. MINIMUM NOTICE TO SCHEDULE THE PRE-CON MEETING.
2. PROVIDE A 1/2 SIZE SET OF PLANS FOR THE INSPECTOR AT THE PRE-CON.
3. PROVIDE AN ANTICIPATED CONSTRUCTION SCHEDULE AT THE PRE-CON.
4. BRING YOUR SWP3 FOR COMPLETENESS CHECK AT THE PRE-CON.

ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE PLANS APPROVED BY TRAVIS COUNTY.

SCHEDULE YOUR PROJECTS PRE-CONSTRUCTION MEETING THROUGH MYPERMITNOW.ORG ACCOUNT AFTER THE INITIAL 3RD PARTY SWP3 INSPECTION REPORT HAS BEEN UPLOADED AND ALL PERMITS AND NOTICES HAVE BEEN POSTED, THEN FOLLOW UP WITH EMAILS TO THE ENVIRONMENTAL INSPECTOR AT ENV-INSPECTION@TRAVISCOUNTYTX.GOV.

IMPERVIOUS COVER CALCULATIONS		
ITEM	IMPERVIOUS COVER	
	ACRES	SQUARE FEET (SQ. FT.)
ADDED IMPERVIOUS	1.70	74,046
REMOVED IMPERVIOUS	0.06	2,630
TOTAL CHANGE IN IMPERVIOUS COVER (INCREASE)	1.64	71,416

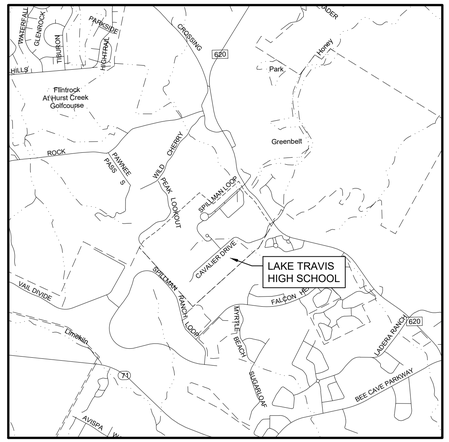
NOTE: PER TRAVIS COUNTY CODE SECTION 482.216(1)(A), IMPERVIOUS COVER SHALL NOT BE LIMITED FOR THIS SITE BECAUSE THE PRIMARY DRIVEWAY ACCESS IS ONTO A STATE ROAD

NO.	REVISION DESCRIPTION	REVISE (R), ADD (A), VOID (V) - SHEET #	TOTAL # SHEETS	NET CHANGE IMP. COVER SQUARE FEET (SF)	TOTAL SITE IMP. COVER SF %	APPROVED BY	DATE	WCID-17	TRAVIS COUNTY

CONSTRUCTION PLANS
FOR
CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620
3324 RANCH RD 620 SOUTH,
AUSTIN, TEXAS 78738

LEGAL DESCRIPTION

1. 23.460 ACRES OUT OF THE ALBERT BECK SURVEY NO. 54, ABSTRACT NO. 2241 IN TRAVIS COUNTY, TEXAS, BEING A PORTION OF THAT CERTAIN 23.460 ACRE TRACT IN DEED TO LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT OF RECORD IN VOLUME 7941, PAGE 395 OF THE DEED RECORDS OF TRAVIS COUNTY, TEXAS.
2. 55.000 ACRES OUT OF THE ALBERT BECK SURVEY NO. 54, ABSTRACT NO. 2241 IN TRAVIS COUNTY, TEXAS, BEING A PORTION OF THAT CERTAIN 55.000 ACRE TRACT IN DEED TO LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT OF RECORD IN VOLUME 7941, PAGE 395 OF THE DEED RECORDS OF TRAVIS COUNTY, TEXAS.
3. 24.940 ACRES OUT OF THE JOSEPH BECK SURVEY NO. 524, ABSTRACT NO. 2733 IN TRAVIS COUNTY, TEXAS, BEING ALL OF THAT CERTAIN 24.940 ACRE TRACT IN DEED TO LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT OF RECORD IN VOLUME 9757, PAGE 601 OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS.
4. 25.000 ACRES OUT OF THE JOSEPH BECK SURVEY NO. 524, ABSTRACT NO. 2733 IN TRAVIS COUNTY, TEXAS, BEING ALL OF THAT CERTAIN 25.000 ACRE TRACT IN DEED TO LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT OF RECORD IN VOLUME 13258, PAGE 3066 OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS.
5. 27.338 ACRES, LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT DOCUMENT NO. 2000171882 REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS.
6. TOTAL ACRES IN PROJECT = 155.738.



N

0 2000'
SCALE: 1" = 2000'

LOCATION MAP

DATE OF SUBMITTAL:
JUNE 2025

OWNER:
LAKE TRAVIS INDEPENDENT
SCHOOL DISTRICT
16101 HWY 71 WEST, BLDG. B
AUSTIN, TX 78738
(512) 533-6039

SURVEYOR:
EARLY LAND SURVEYING, LLC
P.O. BOX 92588
AUSTIN, TX 78709
(512) 202-8631

STRUCTURAL:
HART GAUGLER AND ASSOCIATES
12801 N. CENTRAL EXPRESSWAY, SUITE 1400
DALLAS, TX 75243
(972) 239-5111

ARCHITECT:
CLAYCOMB ASSOCIATES, ARCHITECTS
5113 SOUTHWEST PKWY
SUITE 100
AUSTIN, TX 78735
WWW.CLAYCOMB.NET
(512) 263-7940

ELECTRICAL:
IMEG
115 WILD BASIN ROAD SOUTH
SUITE 305
AUSTIN, TX 78746
(512) 306-9669

LANDSCAPING:
BLU FISH COLLABORATIVE INC.
107 LELAND AVENUE
SUITE 2
AUSTIN, TX 78704
(512) 388-4115

TRAVIS COUNTY ESD NO. 6 FIRE FLOW CALCULATIONS						
Design Standards: 2021 IFC with local amendments						
DATA	SPIRIT SHACK	FIELD HOUSE	PRESS BOX, HOME RESTROOMS, & LOBBY	VISITORS RESTROOM	GAMEDAY LOCKER ROOMS	CONCESSIONS
Construction Classification	Type "II-B"	Type "II-B"	Type "II-B"	Type "II-B"	Type "II-B"	Type "II-B"
Occupancy Classification	Group "A-5"	Group "E"	Group "A-5"	Group "A-5"	Group "A-5"	Group "A-5"
Building Area	1,232 SF	16,721 SF	9,386 SF	1,840 SF	8,530 SF	1,549 SF
Building Height in Feet	18'-8" Max.	48'-7" Max.	81'-10" Max.	14'-2" Max.	14'-0" Max.	15'-8" Max.
Building Height in Stories	1 Story	3 Stories	3 Stories	1 Story	1 Story	1 Story
High-Rise	No	No	Yes	No	No	No
Automatic Fire Sprinkler System	No	Yes	Yes	Yes	Yes	Yes
Required Fire Flow @ 20 psi	1,500 gpm	1,000 gpm	1,000 gpm	1,000 gpm	1,000 gpm	1,000 gpm
Existing Available Fire Flow @ 20 psi	2,952 gpm	2,952 gpm	2,952 gpm	2,952 gpm	2,952 gpm	2,952 gpm
Proposed Available Fire Flow @ 20psi	2,952 gpm	2,952 gpm	2,952 gpm	2,952 gpm	2,952 gpm	2,952 gpm

Fire Hydrant Flow Test Report
Date: 2/7/2025, 1105 hrs

Location: Lake Travis High School; 3324 RR 620 S, Austin, TX 78738

Test Hydrant: Cavalier Dr
Hydrant ID: #363; 2006 AD B84B
GPS: 30.326442/ -97.967915

Flow Hydrant: Performing Arts Center
Hydrant ID: 2014 K81D
GPS: 30.327275/ -97.967969

Water District: Travis County WCID 17

Flow Data

SIZE OPENING:	2.5
COEFFICIENT:	0.9
PITOT READING:	36
GPM:	1007

TOTAL FLOW DURING TEST: **1007** GPM
STATIC READING: 64 PSI RESIDUAL: 58 PSI

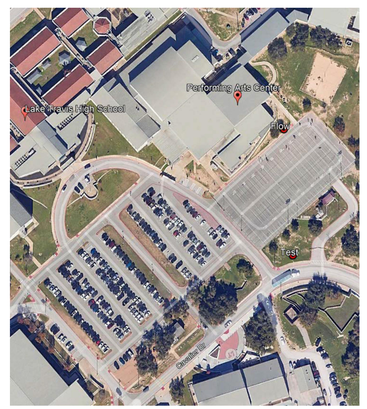
Predicted flow: at 20 psi residual --- **2952** GPM at 0 psi residual --- **3615** GPM

Remarks:



All equipment was left in operational condition upon completion of testing.
Capital Hydrant certifies the test results only on the date and time listed above.

Capital Hydrant LLC www.capitalhydrant.com



ENGINEER

MALONE★WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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

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76 STRUCTURAL DETAILS 29
77 STRUCTURAL DETAILS 30

CONSTRUCTION PLANS

CAVALIER STADIUM RENOVATIONS

CONSTRUCTION SEQUENCING:

1. ESC INSTALLATION. INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (ESC) AND TREE PROTECTION MEASURES IN ACCORDANCE WITH THE APPROVED ESC PLAN SHEETS AND THE SWP3.

a. HAVE A QUALIFIED INSPECTOR (AS SPECIFIED IN SECTION 482.934(C)(3) OF THE TRAVIS COUNTY CODE) INSPECT THE TEMPORARY EROSION AND SEDIMENT CONTROLS AND PREPARE A CERTIFIED SWP3 INSPECTION REPORT REGARDING WHETHER THE TEMPORARY EROSION AND SEDIMENT CONTROLS WERE INSTALLED IN CONFORMANCE WITH THE APPROVED PLANS;

b. UPLOAD THE QUALIFIED INSPECTOR'S CERTIFIED SWP3 INSPECTION REPORT TO THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY; AND

c. REQUEST A MANDATORY PRE-CONSTRUCTION MEETING WITH TRAVIS COUNTY THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY GIVING AT LEAST 3 BUSINESS DAYS NOTIFICATION.

2. PRE-CONSTRUCTION MEETING AND ESC INSPECTION. HOLD A MANDATORY PRE-CONSTRUCTION MEETING THAT ADDRESSES THE ITEMS IN EXHIBIT 482.950 AND THE ESC PRE-CONSTRUCTION INSPECTION BY THE COUNTY AND OBTAIN COUNTY'S APPROVAL TO START CONSTRUCTION. (PRIORITY INSPECTION)

3. INSPECT FOR COMPLIANCE WITH SWP3 AND ESC PLAN. MAINTAIN AND INSPECT THE SWP3 CONTROLS AND PREPARE AND UPLOAD A WEEKLY CERTIFIED SWP3 INSPECTION REPORT THAT INCLUDES THE CONTENTS LISTED IN EXHIBIT 482.951 TO THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY.

4. CONSTRUCT SEDIMENT BASIN(S). CONSTRUCT ANY STORM WATER POND(S) FIRST, WHENEVER APPLICABLE, TO BE FUNCTIONAL AS CONSTRUCTION SEDIMENT BASIN(S) BEFORE GRADING AND EXCAVATING THE ENTIRE SITE, AS FOLLOWS:

a. CLEAR, GRUB, AND EXCAVATE ONLY THE SITE AREAS AND CUT AND FILL QUANTITIES NECESSARY TO CONSTRUCT THE POND(S) IN ACCORDANCE WITH THESE APPROVED PLANS AND THE MINIMUM STANDARDS DESCRIBED IN THE SWP3 AND ESC PLAN SHEET NOTES FOR THE TEMPORARY SEDIMENT BASIN EMBANKMENTS, WALLS, INFLOWS, OUTFALLS, DRAINAGE CONVEYANCE MEASURES, SEDIMENT CONTROLS, AND STABILIZATION.

b. REQUEST COUNTY INSPECTION AND OBTAIN COUNTY'S WRITTEN APPROVAL OF THE TEMPORARY SEDIMENT BASIN(S) BEFORE PROCEEDING FURTHER IN THE SEQUENCE OF CONSTRUCTION. (PRIORITY INSPECTION)

5. CONSTRUCT SITE IMPROVEMENTS. BEGIN THE PRIMARY SITE CLEARING, EXCAVATION, AND CONSTRUCTION ACTIVITIES AND CONTINUE THE SWP3 AND ESC PLAN IMPLEMENTATION AND MAINTENANCE PER THE APPROVED PLANS.

6. CONSTRUCT DRIVEWAY APPROACH AND RIGHT-OF-WAY IMPROVEMENTS. INSTALL DRIVEWAY APPROACH AND DRAINAGE AND ROAD IMPROVEMENTS IN THE COUNTY RIGHT-OF-WAY PER APPROVED PLANS, WHEN APPLICABLE. REQUEST A COUNTY PRE-POUR INSPECTION OF THE DRIVEWAY THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY GIVING AT LEAST 3 BUSINESS DAYS NOTIFICATION. (PRIORITY INSPECTION).

7. PERFORM TEMPORARY STABILIZATION IN ALL DISTURBED AREAS THAT HAVE CEASED CONSTRUCTION ACTIVITIES FOR 14 DAYS OR LONGER.

8. PERFORM PERMANENT SITE STABILIZATION/RE-VEGETATION IMMEDIATELY IN ALL SITE AREAS AT FINAL PLAN GRADE AND IN ALL SITE AREAS SPECIFIED FOR PHASED RE-VEGETATION.

9. COMPLETE PERMANENT WATER QUALITY CONTROLS. BEGIN COMPLETION OF PERMANENT WATER QUALITY CONTROL(S) AND INSTALL THE UNDERDRAIN PER APPROVED PLANS, WHEN APPLICABLE.

a. REMOVE CONSTRUCTION SEDIMENT, RE-ESTABLISH THE BASIN SUBGRADE, AND INSTALL UNDERDRAIN PIPING.

b. REQUEST COUNTY INSPECTION AND OBTAIN COUNTY'S WRITTEN APPROVAL OF THE UNDERDRAIN PIPING INSTALLATION AND ASSOCIATED CONSTRUCTION MATERIALS (AGGREGATE, FILTER MEDIA, ETC.) BEFORE COVERING THE UNDERDRAIN AND PROCEEDING WITH CONSTRUCTION OF THE CONTROL. (PRIORITY INSPECTION).

10. COMPLETE CONSTRUCTION SITE IMPROVEMENTS AND FINAL STABILIZATION PER THE APPROVED PLANS.

11. PROVIDE ENGINEER'S CONCURRENCE LETTER THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY WHEN CONSTRUCTION IS SUBSTANTIALLY COMPLETE AND REQUEST A FINAL INSPECTION BY TRAVIS COUNTY. (PRIORITY INSPECTION)

12. OBTAIN A CERTIFICATE OF COMPLIANCE WHEN ALL FINAL INSPECTION PUNCH LIST ITEMS, INCLUDING FINAL SITE STABILIZATION AND REMOVAL OF TEMPORARY SEDIMENT CONTROLS, IF NECESSARY, PROVIDE A DEVELOPERS CONTRACT TO THE COUNTY TO REQUEST CONDITIONAL ACCEPTANCE FOR USE OR OCCUPANCY OF THE SITE WITH ALL ITEMS COMPLETED EXCEPT RE-VEGETATION GROWTH COVERAGE. REQUEST A RE-INSPECTION WHEN RE-VEGETATION COVERAGE IS COMPLETE. (PRIORITY INSPECTION)

BEFORE PROJECT APPROVAL/ISSUANCE OF THE CERTIFICATE OF COMPLETION (COC) AND FISCAL RELEASE, THE FOLLOWING MUST BE COMPLETED:

THE OWNER MUST COMPLETE AND SUBMIT A PWQC MAINTENANCE PERMIT APPLICATION AND A PWQC MAINTENANCE PLAN TO POSTINSPECTION@TRAVISCOUNTYTX.GOV FOR REVIEW AND APPROVAL.

ONCE THE PWQC MAINTENANCE PLAN DOCUMENT RECEIVES REVIEW APPROVAL, THE DOCUMENT WILL BE RETURNED TO BE SEALED AND SIGNED (NOTARIZED) BY THE DESIGN ENGINEER AND LEGALLY RECORDED WITH THE COUNTY CLERK'S OFFICE. A DIGITAL RECORDED COPY MUST BE PROVIDED.

UPON REQUEST, A PWQC PERMIT APPLICATION AND/OR A TEMPLATE FOR A PWQC MAINTENANCE PLAN WILL BE PROVIDED OR UPLOADED TO THE MYPERMITNOW.ORG ACCOUNT.

THE PWQC MAINTENANCE PERMIT MUST BE SIGNED BY THE SITE OWNER ONCE ALL DOCUMENTS HAVE BEEN RECEIVED.

AMERICANS WITH DISABILITIES ACT:

THE DESIGN ENGINEER IS RESPONSIBLE FOR SUBMITTING THE DRAWINGS TO THE ARCHITECTURAL BARRIERS DIVISION OF THE TEXAS DEPT. OF LICENSING AND REGULATION FOR REVIEW AND APPROVAL OF THE PLANS IN ACCORDANCE WITH THE ARCHITECTURAL BARRIERS ACT. THE ENGINEER IS RELIEVED OF THE SUBMITTAL RESPONSIBILITY IF A REGISTERED ARCHITECT HANDLES THE SUBMITTAL; HOWEVER, THE GRADING AND SITE PLAN MUST COMPLY WITH THE REFERENCED ACT, WHICH IS THE ENGINEER'S RESPONSIBILITY.

BENCHMARKS:

PROJECT SPECIFIC (PROVIDED BY EARLY SURVEY)

BENCHMARK INFORMATION:

ELS #5: MAG NAIL WITH "BAKER AICKLEN" WASHER FOUND IN ASPHALT

STATE PLANE COORDINATES:
N 10090037.52
E 3042839.34

ELEVATION = 1052.82'

ELS #6: MAG NAIL WITH WASHER SET IN CONCRETE

STATE PLANE COORDINATES:
N 10089628.43
E 3042915.86

ELEVATION = 1053.32'

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

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

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

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

TREE PROTECTION NOTES:

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED.
2. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
3. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
4. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIPLINES.
5. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIPLINE), OR, FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
   A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
   B. ROOT ZONE DISTURBANCE DUE TO GRADE CHANGES;
   C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
   D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
   A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEHIND THE AREA IN QUESTION;
   B. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIPLINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZE ROOT DAMAGE);
   C. WHERE TREES ARE ARE CLOSE TO PROPOSED BUILDINGS. ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEEN FENCE AND THE BUILDING;
8. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
10. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
11. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
12. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.)
13. ALL PRUNED LIMBS OF OAK TREES SHALL BE PAINTED WITH PRUNING SEAL IMMEDIATELY AFTER CUTTING. ANY BROKEN LIMBS OF OAK TREES SHALL BE CUT CLEAN AND PAINTED WITH PRUNING SEAL IMMEDIATELY AFTER CUTTING.
14. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NON-COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.
15. PRIOR TO CONSTRUCTION, ALL TREES OVER ROADWAYS AND CONSTRUCTION AREAS MAY BE TRIMMED TO 13 ½ -FEET IN HEIGHT.

UTILITY COMPANIES

CONTRACTORS MUST BE ABLE TO CERTIFY THAT ALL UTILITY COMPANIES HAVE BEEN NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF PROPOSED CUTS OR TRENCHES IN THE STREET RIGHT-OF-WAYS OR PUBLIC UTILITY EASEMENTS, AND THAT UTILITY LINES IN THE IMMEDIATE VICINITY OF THE PROJECT HAVE BEEN IDENTIFIED AND, IF NECESSARY, LOCATED AND MARKED ON THE GROUND AT A SITE BEFORE YOU DIG IN ANY PUBLIC UTILITY EASEMENT OR STREET RIGHT-OF-WAY. "ONE-CALL" THROUGH THE CITY OF AUSTIN OR SOUTHWESTERN BELL DOES NOT COVER ALL OF THE UTILITY COMPANIES IN THE CITY OF LAKEWAY. UTILITY PROVIDERS FOR THIS SITE INCLUDE BUT ARE NOT LIMITED TO:

AT&T
FOR PRE-CONSTRUCTION MEETINGS FOR ALL DEVELOPMENT IN LAKEWAY PROPER CALL- 870-5185. FOR PRE-CONSTRUCTION MEETING FOR DEVELOPMENT ALONG RR620 IN LAKEWAY (INCLUDING ETJ) CALL - 870-5214. FOR UTILITY LINE LOCATION CALL - 1-800-344-8377.

AUSTIN ENERGY
FOR PRE-CONSTRUCTION MEETINGS CALL - 505-7649. FOR UTILITY LINE LOCATION CALL - 505-7542.

TIME WARNER CABLE
FOR PRE-CONSTRUCTION MEETINGS CALL - 485-6433. FOR UTILITY LINE LOCATION CALL - 485-6356.

TRAVIS COUNTY WATER CONTROL AND IMPROVEMENTS DISTRICT #17
FOR PRE-CONSTRUCTION MEETINGS CALL - 266-1111 EXT 13 FOR UTILITY LINE LOCATION CALL - 266-1111 EXT 10

TRAVIS COUNTY SWP3 NOTES:

1. ALL CONSTRUCTION ACTIVITIES DISTURBING ONE ACRE AND GREATER MUST OBTAIN STORM WATER DISCHARGE AUTHORIZATION FRO M THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), THROUGH COMPLIANCE WITH TCEQ'S GENERAL PERMIT #TXR150000. THE PRIMARY CONSTRUCTION SITE OPERATOR(S) [PCSO] MUST PREPARE AND IMPLEMENT AN SWP3 THROUGHOUT CONSTRUCTION WHICH INCLUDES THE EROSION AND SEDIMENT CONTROL (ESC) PLAN AND OTHER BEST MANAGEMENT PRACTICES (BMPS) SPECIFIED IN THESE PLANS APPROVED BY TRAVIS COUNTY.
2. SMALL CONSTRUCTION ACTIVITIES DISTURBING BETWEEN ONE AND FIVE ACRES SHALL POST A TCEQ CONSTRUCTION SITE NOTICE (CSN) ON SITE PRIOR T O COMMENCING CONSTRUCTION. LARGE CONSTRUCTION ACTIVITIES DISTURBING FIVE ACRES OR GREATER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO TCEQ AND POST THE NOI ON SITE AT LEAST SEVEN (7) DAYS PRIOR TO BEGINNING CONSTRUCTION. NOTICES POSTED MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. TRAVIS COUNTY IS OPERATOR OF THE SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) RECEIVING STORM WATER DISCHARGES FROM THIS PROJECT, UNDER TCEQ MS4 PERMIT #TXR040327. UPON REQUEST BY TRAVIS COUNTY, THE PCSO SHALL PROVIDE A COPY OF THE NOI AND CSN; THE SWP3; AND REGULARLY PROVIDE COPIES OF THE SWP3 INSPECTION REPORTS, REQUIRED WEEKLY, OR BI -WEEKLY AND AFTER EVERY RAIN EVENT .5 INCHES OR GREATER.
4. THE PCSO MUST REVISE THE SWP3 WHENEVER CHANGING SITE CONDITIONS, OR A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS NOT PREVIOUSLY ADDRESSED; OR WHEN RESULTS OF INSPECTIONS BY SITE OPERATORS, TRAVIS COUNTY, TCEQ, OR OTHER LOCAL AGENCY AUTHORIZED TO APPROVE ESC PLANS INDICATE THE SWP3 IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN DISCHARGES FROM THE SITE.
5. TEMPORARY OR PERMANENT EROSION CONTROL AND STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE, AND AS SPECIFIED ON THE PLANS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THESE MEASURES MUST BE INITIATED NO LATER THAN 14 DAYS AFTER CESSATION, UNLESS CONSTRUCTION ACTIVITIES WILL RESUME WITHIN 21 DAYS IN THE AREA.
6. UPON FINAL STABILIZATION OF THE ENTIRE SITE, INCLUDING COMPLETION OF ALL STABILIZATION REQUIREMENTS OF THE APPROVED PLANS AND PERMIT AS VERIFIED BY TRAVIS COUNTY, THE PCSO SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO TCEQ.

TRAVIS COUNTY EMERGENCY SERVICES DISTRICT NO. 6 FIRE DEPARTMENT - SITE PLAN NOTES

1. DESIGNS FOR SITE IMPROVEMENTS SHALL MEET THE CURRENT DESIGN CRITERIA AS REQUIRED BY TCESD NO. 6.
2. ALL PLANS (SITE, BUILDING, FIRE ALARM, FIRE SPRINKLER) SHALL BE SUBMITTED TO LTFR FOR REVIEW. TWO FULL-SIZE SETS ARE REQUIRED. A REVIEW LETTER WILL BE GENERATED. REVIEWS WILL NOT BE PERFORMED UNTIL THE APPLICABLE REVIEW FEES ARE PAID.
3. UPON APPROVAL, A PERMIT WILL BE ISSUED. THE PERMIT MUST BE CONSPICUOUSLY POSTED.
4. AN ALL-WEATHER DRIVING SURFACE (FIRE APPARATUS ACCESS) MUST BE INSTALLED IN LOCATIONS SHOWN ON THE SITE PLAN, PRIOR TO ANY BUILDING CONSTRUCTION BEYOND THE FOUNDATION.
5. ALL PERVIOUS/DECORATIVE PAVING SHALL BE ENGINEERED AND INSTALLED FOR 80,000 POUNDS LIVE-VEHICLE LOADS. ANY PERVIOUS/DECORATIVE PAVING WITHIN 100 FEET OF ANY BUILDING MUST BE APPROVED BY THE FIRE DEPARTMENT.
6. VERTICAL CLEARANCE REQUIRED FOR FIRE APPARATUS IS THIRTEEN FEET, SIX INCHES FOR FULL 25' WIDTH OF ACCESS DRIVES AND ROUTES FOR INTERNAL CIRCULATION. DEAD-END FIRE APPARATUS ACCESS ROADS IN EXCESS OF 150' IN LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE TURNING AROUND OF FIRE APPARATUS, PER FIGURE B-4 OF THIS MANUAL.
7. THE MAXIMUM ALLOWABLE DRIVEWAY, DRIVE AISLE OR FIRE LANE GRADE IS FIFTEEN PERCENT.
8. THE MARKINGS OF FIRE LANES MUST BE RED WITH WHITE STENCILING OR WHITE WITH RED STENCILING READING "FIRE LANE - TOW AWAY ZONE" IN LETTERING NO LESS THAN THREE INCHES IN HEIGHT. THE STENCILING SHALL BE AT INTERVALS OF 35 FEET OR LESS, ALTERNATIVE MARKING OF FIRE LANES MAY BE APPROVED BY THE FIRE CHIEF, OR HIS/HER DESIGNATED AGENT. PROVIDED FIRE LANES ARE CLEARLY IDENTIFIED AT BOTH ENDS AND AT INTERVALS NOT TO EXCEED 35 FEET. EXISTING FIRE LANE MARKINGS SHALL BE GRANDFATHERED PROVIDED THAT THEY MEET THE WORDING AND INTERVAL REQUIREMENTS THAT WERE ACCEPTED ON APPROVED SITE PLANS AND OTHER TYPE FIRE LANE SUBMITTALS APPROVED BY THE FIRE DEPARTMENT. EXISTING FIRE LANES THAT ARE IN NEED OF RE-PAINTING SHALL MEET THE REQUIREMENTS OF THIS SECTION.
9. THE FIRE DEPARTMENT CONNECTION (FDC) CONNECTION SHALL BE INSTALLED WHERE SHOWN ON THE SITE PLAN.
10. HYDRANTS MUST BE INSTALLED WITH THE CENTER OF THE FOUR AND ONE-HALF INCH STEAMER OPENING AT LEAST 18" ABOVE FINISHED GRADE. THE FOUR AND ONE-HALF INCH STEAMER OPENING MUST FACE THE DRIVEWAY OR STREET WITH THREE TO SIX-FOOT SETBACKS FROM THE CURB LINE(S). NO OBSTRUCTION IS ALLOWED WITHIN THREE FEET OF ANY HYDRANT, AND THE FOUR AND ON-HALF INCH OPENING MUST BE TOTALLY UNOBSTRUCTED FROM THE STREET/DRIVEWAY.
11. CONTRACTOR SHALL INSTALL BLUE REFLECTIVE MARKERS IN THE PAVEMENT PER TCESD NO. 6 SPECIFICATIONS. NO IMPROVEMENTS MAY BE OCCUPIED UNTIL THE MARKERS ARE INSTALLED.
12. FIRE HYDRANTS SHALL HAVE NATIONAL PIPE THREADS.
13. A CERTIFIED OR WITNESSED PRESSURE TEST IS REQUIRED FOR ALL WATER MODELS, REQUIRED HYDRANT FLOW TESTS OR SPRINKLER SYSTEM DESIGNS.
14. HYDRANTS SHALL BE PAINTED SILVER AND THE BONNET AND CAPS SHALL BE PAINTED THE DESIGNATED COLOR PER THE GALLONS PER MINUTE (GPM) AS FOLLOWS:

CLASS AA	LIGHT BLUE	1500 OR HIGHER GPM
CLASS A	GREEN	1000 - 1499 GPM
CLASS B	ORANGE	500 - 1499 BPM
CLASS C	RED	LESS THAN 500 GPM
CLASS D	BLACK	OUT OF SERVICE

15. COMMERCIAL DUMPSTERS AND CONTAINERS AROUND WITH AN INDIVIDUAL CAPACITY OF ONE AND ONE HALF CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN TEN FEET OF OPENINGS, COMBUSTIBLE WALLS, OR COMBUSTIBLE EAVE LINES.
16. "KEY BOXES" / "KEY SWITCHES" (KNOX-BOX® RAPID ENTRY SYSTEM) SHALL BE INSTALLED IN THE LOCATION(S) SHOWN ON THE SITE/BUILDING PLANS AS APPROVED BY THE TCESD NO. 6. CONTACT LTFR FOR ORDERING INFORMATION. NO IMPROVEMENTS MAY BE OCCUPIED UNTIL THE KEY BOX/KEY SWITCH IS INSTALLED.

TRAVIS COUNTY STANDARD CONSTRUCTION NOTES FOR SITE DEVELOPMENT (EXHIBIT 482.301B)

1. EACH DRIVEWAY MUST BE CONSTRUCTED IN ACCORDANCE WITH TRAVIS COUNTY CODE SECTION 82.302(G), AND EACH DRAINAGE STRUCTURE OR SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF AUSTIN DRAINAGE CRITERIA MANUAL, UNLESS OTHER DESIGN CRITERIA ARE APPROVED BY TRAVIS COUNTY.
2. BEFORE BEGINNING ANY CONSTRUCTION, THE OWNER MUST OBTAIN A TRAVIS COUNTY DEVELOPMENT PERMIT AND POST THE DEVELOPMENT PERMIT, THE TCEQ SITE NOTICE, AND ANY OTHER REQUIRED PERMITS AT THE JOB SITE.
3. CONSTRUCTION MAY NOT TAKE PLACE WITHIN TRAVIS COUNTY RIGHT-OF-WAY UNTIL AFTER THE OWNER HAS SUBMITTED A TRAFFIC CONTROL PLAN TO TRAVIS COUNTY AND OBTAINED WRITTEN APPROVAL OF THE TRAFFIC CONTROL PLAN FROM TRAVIS COUNTY.
4. THE CONTRACTOR AND PRIMARY OPERATOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION AND THE SWP3 IN THESE APPROVED PLANS. THE CONTRACTOR AND PRIMARY OPERATOR SHALL REQUEST TRAVIS COUNTY INSPECTION AT SPECIFIC MILESTONES IN THE SEQUENCE OF THE CONSTRUCTION OF THE SITE DEVELOPMENT CORRESPONDING TO THE PRIORITY INSPECTIONS SPECIFIED IN CONSTRUCTION SEQUENCING NOTES IN THESE APPROVED PLANS. DEVELOPMENT OUTSIDE THE LIMITS OF CONSTRUCTION SPECIFIED IN THE APPROVED PERMIT AND CONSTRUCTION PLANS IS PROHIBITED.
5. BEFORE BEGINNING ANY CONSTRUCTION, ALL STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENTS SHALL BE MET, AND THE FIRST PHASE OF THE TEMPORARY EROSION CONTROL (ESC) PLAN INSTALLED WITH A SWP3 INSPECTION REPORT UPLOADED TO MYPERMITNOW.ORG. ALL SWP3 AND ESC PLAN MEASURES AND PRIORITY INSPECTIONS MUST BE PERFORMED BY THE PRIMARY OPERATOR IN ACCORDANCE WITH THE APPROVED PLANS AND SWP3 AND ESC PLAN NOTES THROUGHOUT THE CONSTRUCTION PROCESS.
6. BEFORE STARTING CONSTRUCTION, THE OWNER OR CONTRACTOR OR THEIR DESIGNATED REPRESENTATIVES SHALL SUBMIT A REQUEST VIA THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY TO REQUEST AND SCHEDULE A MANDATORY PRECONSTRUCTION CONFERENCE AND ESC INSPECTION. IF FURTHER ASSISTANCE IS NEEDED, THE TNR PLANNING AND ENGINEERING DIVISION STAFF OR TNR STORM WATER MANAGEMENT PROGRAM STAFF CAN BE CONTACTED BY TELEPHONE AT 512-854-9383.
7. THE CONTRACTOR SHALL KEEP TRAVIS COUNTY TNR ASSIGNED INSPECTION STAFF CURRENT ON THE STATUS OF SITE DEVELOPMENT AND UTILITY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY TRAVIS COUNTY AND REQUEST PRIORITY INSPECTIONS THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY IN ACCORDANCE WITH THE SPECIFIC MILESTONES IN THE CONSTRUCTION SEQUENCING NOTES IN THESE APPROVED PLANS.
8. CONTOUR DATA SOURCE: DELTA SURVEY GROUP, INC.
9. FILL MATERIAL MUST BE MANAGED AND DISPOSED OF IN ACCORDANCE WITH ALL REQUIREMENTS SPECIFIED IN THE APPROVED PLANS, SWP3, AND THE TRAVIS COUNTY CODE. THE CONTRACTOR SHALL STOCKPILE FILL AND CONSTRUCTION MATERIALS ONLY IN THE AREAS DESIGNATED ON THE APPROVED PLANS AND NOT WITHIN THE 100-YEAR FLOOD PLAIN, WATERWAY SETBACK, CRITICAL ENVIRONMENTAL FEATURE SETBACK, OR OUTSIDE THE LIMITS OF CONSTRUCTION. DISPOSAL OF SOLID WASTE MATERIALS, AS DEFINED BY STATE LAW (E.G., LITTER, TIRES, DECOMPOSABLE WASTES, ETC.) IS PROHIBITED IN PERMANENT FILL SITES.
10. BEFORE DISPOSING ANY EXCESS FILL MATERIAL OFF-SITE, THE CONTRACTOR OR PRIMARY OPERATOR MUST PROVIDE THE COUNTY INSPECTOR DOCUMENTATION THAT DEMONSTRATES THAT ALL REQUIRED PERMITS FOR THE PROPOSED DISPOSAL SITE LOCATION, INCLUDING TRAVIS COUNTY, TCEQ

PRE-CONSTRUCTION AND CONFERENCE AGENDA FOR SWP3 AND ESC PLAN:

BEFORE STARTING CONSTRUCTION, THE OWNER OR THEIR REPRESENTATIVE MUST SUBMIT A REQUEST, USING THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY, TO PARTICIPATE IN A PRECONSTRUCTION CONFERENCE WITH THE DESIGNATED COUNTY INSPECTOR. PRIOR TO THE PRECONSTRUCTION CONFERENCE REQUEST, THE OWNER OR OWNER'S REPRESENTATIVE SHALL ENSURE THE FIRST PHASE OF THE ESC CONTROLS ARE INSTALLED CONFORMANCE WITH THE APPROVED PLANS, THE OWNER'S QUALIFIED INSPECTOR HAS INSPECTED THE CONTROLS AND VERIFIED COMPLIANCE WITH THE PLANS, AND AN SWP3 INSPECTION REPORT DOCUMENTING THIS INFORMATION HAS BEEN SENT TO THE COUNTY THROUGH THE METHOD SPECIFIED BY THE DESIGNATED COUNTY INSPECTOR.
AFTER ARRANGING AN AGREED UPON DATE WITH THE COUNTY AND PROVIDING THE INITIAL SWP3 INSPECTION REPORT, THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE SHALL PROVIDE NOTICE OF THE SWP3 PRE-CONSTRUCTION CONFERENCE AND A COPY OF THE APPROVED PLANS, IF REQUESTED, TO THE FOLLOWING PERSONS OR ENTITIES AT LEAST TWO BUSINESS DAYS BEFORE THE CONFERENCE:

1. DESIGNATED COUNTY INSPECTOR(S)
2. DESIGN ENGINEER FOR THE APPROVED PLANS AND SWP3, OR THEIR REPRESENTATIVE
3. CONTRACTOR(S)/PRIMARY OPERATOR(S)
4. PRIMARY OPERATOR'S QUALIFIED INSPECTOR RESPONSIBLE FOR PREPARING THE SWP3 INSPECTION REPORTS
5. OTHER STAKEHOLDERS, AS APPROPRIATE: MUNICIPALITIES, UTILITIES, ETC.

THE SWP3 PRE-CONSTRUCTION CONFERENCE MAY BE A STANDALONE MEETING OR A PART OF A LARGER PRE-CONSTRUCTION CONFERENCE, BUT MUST INCLUDE AN ON-SITE INSPECTION APPROVAL OF THE FIRST PHASE OF THE PROJECT'S ESC PLAN BY THE COUNTY INSPECTOR BEFORE CONSTRUCTION BEGINS. THE COUNTY INSPECTOR WILL DISCUSS THE FOLLOWING APPLICABLE ITEMS IN THE APPROVED PLANS AND THE SWP3 WITH THE PARTICIPANTS:

1. THE SWP3 SITE NOTEBOOK FOR THE PROJECT, INCLUDING REVIEW OF COMPLETENESS, SIGNATURES, CONSISTENCY WITH THE APPROVED CONSTRUCTION AND ESC PLANS, AND THE REQUIREMENTS FOR MAINTAINING THE SWP3 SITE NOTEBOOK DURING THE CONSTRUCTION PROCESS.
2. THE SEQUENCE OF CONSTRUCTION AND ESC PLAN IMPLEMENTATION; SEDIMENT BASIN CONSTRUCTION SCOPE PRIOR TO FULL SITE GRADING; NON-STRUCTURAL EROSION SOURCE CONTROLS; START DATES AND SCHEDULE OF EVENTS.
3. SEDIMENT CONTROLS; PHASING OF PERIMETER AND INTERIOR SEDIMENT CONTROLS DURING CONSTRUCTION; STRUCTURAL EROSION SOURCE CONTROLS SUCH AS DRAINAGE DIVERSION; ESC MAINTENANCE REQUIREMENTS.
4. ADEQUACY OF THE FIRST ESC PHASE AND FUTURE ESC PHASES TO ADDRESS SPECIFIC SITE CONDITIONS, AND ADJUSTMENT AND REVISION OF THE ESC PLAN AND SWP3 CONTROLS DURING CONSTRUCTION.
5. TEMPORARY AND PERMANENT STABILIZATION AND RE-VEGETATION REQUIREMENTS, INCLUDING SCHEDULE, CRITICAL SITE IMPROVEMENTS AND PRIORITY RE-VEGETATION AREAS.
6. ON AND OFF-SITE TEMPORARY AND PERMANENT SPOIL AND FILL DISPOSAL AREAS, HAUL ROADS, STAGING AREAS, AND STABILIZED CONSTRUCTION ENTRANCES;
7. PERMANENT WATER QUALITY CONTROLS CONSTRUCTION AND COUNTY INSPECTIONS, AND RELATED GRADING AND DRAINAGE CONSTRUCTION.
8. SUPERVISION OF THE SWP3 IMPLEMENTATION BY THE PRIMARY OPERATOR'S DESIGNATED PROJECT MANAGER, INCLUDING ROLES, RESPONSIBILITIES, AND COORDINATION WHEN MORE THAN ONE OPERATOR IS RESPONSIBLE FOR IMPLEMENTATION.
9. INSPECTION AND PREPARATION OF THE WEEKLY SWP3 INSPECTION REPORTS BY THE PRIMARY OPERATOR'S QUALIFIED INSPECTOR; REPORT SUBMITTAL BY THE PRIMARY OPERATOR, AND SWP3 MONITORING INSPECTIONS CONDUCTED BY THE COUNTY INSPECTOR.
10. OBSERVATION AND DOCUMENTATION OF EXISTING SITE CONDITIONS ADJACENT TO THE LIMITS OF CONSTRUCTION BEFORE CONSTRUCTION, INCLUDING WATERWAYS AND POTENTIAL OUTFALL DISCHARGE ROUTES, RIGHTS-OF-WAY AND EASEMENTS, BUFFER ZONES, AND CRITICAL ENVIRONMENTAL FEATURES.
11. SPECIAL SITE CONDITIONS AND PLAN PROVISIONS, SUCH AS PROTECTION OF WATERWAYS, CRITICAL ENVIRONMENTAL FEATURES, TREES TO BE SAVED, AND FUTURE HOMEBUILDING ON SUBDIVISION LOTS.
12. RAIN GAGE LOCATION OR RAINFALL INFORMATION SOURCE TO BE USED DURING CONSTRUCTION AND REPORTING.
13. FINAL INSPECTION AND ACCEPTANCE REQUIREMENTS, INCLUDING THE ENGINEER'S CONCURRENCE LETTER, COMPLETION OF REVEGETATION COVERAGE BEFORE THE NOTICE OF TERMINATION IS SUBMITTED BY THE PRIMARY OPERATOR, STABILIZATION OF RESIDENTIAL SUBDIVISION LOTS, REMOVAL OF TEMPORARY SEDIMENT CONTROLS, THE CERTIFICATE OF COMPLIANCE AND RELEASE OF ESC FISCAL SURETY.
14. EXCHANGE OF TELEPHONE NUMBERS AND CONTACT INFORMATION FOR THE PRIMARY PARTICIPANTS.

THE DESIGN ENGINEER SHALL PREPARE AND DISTRIBUTE NOTES, KEY DECISIONS, AND FOLLOW UP FROM THE PRECONSTRUCTION CONFERENCE TO ALL PARTICIPANTS WITHIN THREE BUSINESS DAYS AFTER COMPLETION OF THE CONFERENCE.

SWP3 INSPECTION AREA AND REPORT CONTENTS:

THE OWNER OR PRIMARY OPERATOR OF THE CONSTRUCTION SITE SHALL DESIGNATE A QUALIFIED INSPECTOR POSSESSING THE REQUIRED CERTIFICATION (AS SPECIFIED IN SECTION 82.934(C)(3)) TO PERFORM A WEEKLY SWP3 INSPECTION AND PREPARE A SIGNED SWP3 INSPECTION REPORT OF THE INSPECTION FINDINGS.

THE CONSTRUCTION SITE AREAS AND THE CONTROL MEASURES LISTED HEREIN ARE TO BE USED AS A MINIMUM AS THE UNIFORM CRITERIA BY THE OWNER'S QUALIFIED INSPECTOR, AS WELL AS THE COUNTY INSPECTOR, TO EVALUATE AND DETERMINE A PROJECT'S COMPLIANCE STATUS WITH THE APPROVED SWP3 AND ESC PLAN.

IN ADDITION, ON AN ONGOING BASIS AND FOLLOWING STORM EVENTS, THE PRIMARY OPERATOR'S RESPONSIBLE ON-SITE PERSONNEL SHALL ALSO INSPECT AND ADDRESS THESE ITEMS DURING CONSTRUCTION AS REQUIRED BY THE SWP3, ESC PLAN, AND TRAVIS COUNTY CODE, SECTION 82.951.

AREAS OF INSPECTION. AT THE VERY LEAST, THE FOLLOWING AREAS MUST BE INSPECTED:

1. DISTURBED AREAS AND THE APPROVED LIMITS OF CONSTRUCTION.
2. PERIMETER AND INTERIOR SEDIMENT CONTROLS.
3. AREAS UNDERGOING TEMPORARY STABILIZATION OR PERMANENT VEGETATION ESTABLISHMENT.
4. TEMPORARY AND PERMANENT FILL AND SPOIL STORAGE OR DISPOSAL AREAS.
5. STORAGE AREAS FOR MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO RAINFALL.
6. OUTFALL LOCATIONS AND THE AREAS IMMEDIATELY DOWNSTREAM.
7. STRUCTURAL CONTROLS, INCLUDING SEDIMENT PONDS, SEDIMENT TRAPS, AND DRAINAGE DIVERSIONS.
8. HAUL ROADS AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ADJACENT ROADWAYS FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
9. WATERWAY CROSSINGS AND AREAS ADJACENT TO WATERWAYS AND CRITICAL ENVIRONMENTAL FEATURES.
10. CONCRETE WASH OUT AREAS AND ALL AREAS REQUIRING CONTROL MEASURES FOR NONSTORM WATER DISCHARGES, INCLUDING DUST, SOLID WASTE, DE-WATERING, MATERIAL SPILLS, VEHICLE MAINTENANCE AND WASHING, AND WASH WATER DISCHARGES.
11. LOCATIONS OF ALL CONTROL MEASURES THAT REQUIRE MAINTENANCE, INCLUDING ANY CONTROL MEASURE IDENTIFIED IN THE PREVIOUS SWP3 INSPECTION REPORT WHICH REQUIRED MAINTENANCE OR REVISION BY THE OWNER OR PRIMARY OPERATOR.
12. LOCATIONS OF ANY DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE AND ANY DISTURBANCE BEYOND THE APPROVED LIMITS OF CONSTRUCTION.
13. LOCATIONS OF CONTROL MEASURES THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION.
14. LOCATIONS WHERE AN ADDITIONAL ESC OR CONTROL MEASURE IS NEEDED.

THE SWP3 INSPECTION REPORT MUST INCLUDE:

A. FINDINGS AS TO WHETHER THE FOLLOWING STRUCTURAL AND NON-STRUCTURAL CONTROLS REQUIRED FOR THE SITE AREAS LISTED ABOVE ARE FUNCTIONING :IN COMPLIANCE WITH THE APPROVED SWP3 AND ESC PLAN:
   1. EROSION SOURCE CONTROLS, INCLUDING THE APPROVED SEQUENCE OF CONSTRUCTION AND GRADING PLAN LIMITS, DRAINAGE DIVERSION MEASURES, TEMPORARY AND PERMANENT FILL DISPOSAL AND STOCKPILE MANAGEMENT MEASURES.
   2. SEDIMENT CONTROLS, INCLUDING PERIMETER AND INTERIOR CONTROLS, SEDIMENT TRAPS AND BASINS, AND THE SEQUENCE OF CONSTRUCTION REQUIREMENTS FOR THE SEDIMENT CONTROLS.
   3. PERMANENT EROSION AND SOIL STABILIZATION CONTROLS, BASED ON THE SEQUENCE OF CONSTRUCTION AND CRITICAL SITE IMPROVEMENTS, AND THE CESSATION OF CONSTRUCTION ACTIVITIES, INCLUDING TEMPORARY STABILIZATION MEASURES FOR AREAS INACTIVE FOR LONGER THAN 14 DAYS, AND PERMANENT STABILIZATION MEASURES FOR AREAS AT FINAL GRADE.
   4. OTHER APPLICABLE CONTROLS AND POLLUTION PREVENTION MEASURES.

B. RAINFALL DOCUMENTATION:
   1. FOR PROJECTS THAT COMPRISE TEN ACRES OR MORE, THE DOCUMENTATION MUST INCLUDE RAINFALL DATES AND AMOUNTS IN ACCORDANCE WITH SECTION 82.934(E); AND
   2. FOR PROJECTS THAT COMPRISE LESS THAN TEN ACRES, THE DOCUMENTATION MUST INCLUDE ACCURATE RAINFALL DATA FROM A LOCATION CLOSEST TO THE SITE.

C. CORRECTIVE ACTIONS REQUIRED FOR ANY NON-COMPLIANT ITEMS AND THE SCHEDULE FOR BRINGING THESE ITEMS INTO COMPLIANCE.

THE SWP3 INSPECTION REPORT CONTENTS MUST CONTAIN THE INSPECTION FINDINGS FOR THE REQUIRED AREAS AND CONTROL MEASURES LISTED HEREIN AND CERTIFY WHETHER THE SITE IS IN COMPLIANCE WITH THE APPROVED SWP3 AND ESC PLAN.

EITHER AT THE TIME OF EACH SWP3 INSPECTION, OR NO LATER THAN THE DATE OF THE INSPECTION, THE OWNER'S QUALIFIED INSPECTOR SHALL PREPARE AND SIGN A SWP3 INSPECTION REPORT.

THE OWNER OR PRIMARY OPERATOR SHALL UPLOAD EACH REQUIRED SWP3 OR ESC PLAN INSPECTION REPORT TO THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY. AN ALTERNATE METHOD OF REPORT SUBMITTAL MAY BE USED IF APPROVED BY THE COUNTY INSPECTOR.

GEOTECHNICAL PAVEMENT RECOMMENDATIONS:

	Layer Description	Layer Thickness	
		Clay Subgrade	Limestone Subgrade
General Parking Areas	HMAC Surface Course, Type "D"	2.0 in.	2.0 in.
	Flexible Base	10.0 in.	7.0 in.
	Combined Total	**12.0 in.**	**9.0 in.**
Channelized Traffic Areas	HMAC Surface Course, Type "D"	2.5 in.	2.5 in.
	Flexible Base	11.0 in.	8.0 in.
	Combined Total	**13.5 in.**	**10.5 in.**

DETAILED PAVEMENT RECOMMENDATIONS:

REFER TO GEOTECHNICAL ENGINEERING STUDY FOR LAKE TRAVIS HIGH SCHOOL COMBINED IMPROVEMENTS 3324 RANCH TO MARKET ROAD 620 SOUTH, AUSTIN, TEXAS, BY RABA KISTNER ON 02/19/24.

PERMANENT EROSION CONTROL NOTES:

ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW:

A. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE PLACED IN ALL DISTURBED AREAS (EXCEPT ROCK OUTCROP). SALVAGED TOPSOIL FROM THE SITE SHOULD BE USED WHENEVER POSSIBLE. IMPORTED TOPSOIL SHALL BE WEED FREE WITH A MINIMUM 20% ORGANIC CONTENT. TRASH, WOOD, BRUSH, STUMPS, ROCKS OVER 1½ INCHES (37.5 MM) IN SIZE AND OTHER OBJECTIONABLE MATERIAL ENCOUNTERED SHALL BE SCREENED FROM THE TOPSOIL PRIOR TO PLACEMENT. NO MORE THAN 15 PERCENT OF THE TOPSOIL VOLUME SHALL BE ROCK SMALLER THAN ½ INCHES.

B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

DATES	CLIMATE	SPECIES (lb/ac)	
YEAR ROUND	PERMANENT COOL/WARM SEASON (NATIVE SPECIES)	PURPLE THREE-AWN (ARISTIDA PURPUREA)	1.4
		SIDEOATS GRAMA (BOUTELOUA CURTIPENDULA)	2.0
		SILVER BLUESTEM (BOTHRIOCHLOA LAGURIOIDES)	6.0
		BUFFALOGRASS (BUCHLOE DACTYLOIDES)	1.4
		CANADIAN WILDRYE (ELYMUS CANADENSIS)	1.4
		ENGELMANN'S DAISY (ENGELMANNIA PINNATIFIDA)	0.6
		GREEN SPRANGLETOP (LEPTOCHLOA DUBIA)	2.6
		MEXICAN HAT (RATIBIDA COLUMNIFERA)	1.0
		LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)	1.8
		INDIANGRASS (SORGHASTRUM NUTANS)	1.8
		TEXAS WINTERGRASS (NASSELLA LEUCOTRICHA)	15.0
		TOTAL	35.0
MAR 30-OCT 1	PERMANENT WARM SEASON	BUFFALO/NATIVE	45.0
OCT 1-MAR 30	PERMANENT COOL/WARM SEASON	BUFFALO/NATIVE	70.0
		*CEREAL RYE (SECALE CEREALE)	90.0
		TOTAL	160

TAKE CARE TO DISTRIBUTE SEED EVENLY, BY SOWING FINE AND LARGE SEEDS SEPARATELY OR BY USING A FINE SEED BOX. WHEN BROADCASTING SEEDING, THE APPLICATION RATE SHOULD BE DOUBLED AND THE AREA ROLLED TO ENSURE A GOOD SEED/SOIL CONTACT.

FROM SEPTEMBER 15 TO MARCH 1, OATS (21 lb/acre) AND WINTER WHEAT (30 lb/acre) MAY BE SUBSTITUTED FOR RYE.

MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 3500 lb/acre (HAY), 4500 lb/acre (STRAW) OR 2500 lb/acre (HYDRAULIC MULCH). ACKIFIER, IF USED SHALL BE BIODEGRADABLE.

C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF ½ INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.

D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH 70% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.

WCID-17 PRE-CONSTRUCTION CONFERENCE CHECKLIST:

PRE-CONSTRUCTION CONFERENCE CHECKLIST

WCID Inspectors	Phone Numbers
Juan Sanchez	(512) 801-2966
Dany Ramirez	(512) 247-0228
Jesus Herrera	(512) 801-2085
Storm Inspector	stormwater@wcid17.org

1. OUR DISTRICT CONSTRUCTION STANDARDS CAN BE FOUND ONLINE AT WWW.WCID17.ORG. MAKE SURE YOU HAVE THE MOST CURRENT REVISION OF THESE STANDARDS. WE STRONGLY ENCOURAGE REVIEWING THESE THROUGHOUT THE PROJECT.
2. *CHANGE ORDERS*: SUBMIT ONE COPY TO THE DISTRICT OFFICE AND ONE TO THE INSPECTOR. IF THE PROJECT IS WITHIN THE CITY OF LAKEWAY, CHANGE ORDERS MUST ALSO BE SUBMITTED TO LAKEWAY. (THESE COPIES ARE IN ADDITION TO THE COPIES THAT ARE GOING TO THE ENGINEERS).
3. ONCE WATER AND WASTEWATER LINES ARE READY FOR INSTALLATION, A WCID-17 INSPECTOR MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO START-TIME. THE INSPECTOR WILL THEN SET UP AN APPOINTMENT WITH THE CONTRACTOR WHEN THERE IS AN OPENING IN HIS SCHEDULE.
4. NO UTILITY LINES WILL BE COVERED UNTIL THEY HAVE BEEN INSPECTED AND PASSED BY THE INSPECTOR. PICTURES CANNOT BE USED AS A SUBSTITUTE FOR A PHYSICAL INSPECTION.
5. EROSION CONTROL WILL BE IN PLACE AND MAINTAINED AT ALL TIMES.
6. IF WORK IS BEING CONDUCTED ON MORE THAN FIVE (5) ACRES, PREPARE AND IMPLEMENT SWPPP. POST SITE NOTICE. SUBMIT COPY OF SITE NOTICE TO MS4 OPERATOR AND TO THE STORM SEWER INSPECTOR. (NOTE: THE STORM WATER INSPECTOR WILL BE MAKING PERIODIC INSPECTIONS)
7. CONNECTIONS WILL ONLY BE MADE TO WCID-17 EXISTING SYSTEMS WITH AN INSPECTOR PRESENT. NO WATER MAINS WILL BE PUT INTO SERVICE UNTIL THE BACTERIOLOGICAL SAMPLES HAVE PASSED TESTING. THE INSPECTOR WILL NOTIFY THE CONTRACTOR WHEN THIS HAPPENS.
8. THE CONTRACTOR WILL IMMEDIATELY REPORT TO THE INSPECTOR ANY PROBLEMS ENCOUNTERED OR ANY DAMAGE TO THE EXISTING UTILITY INFRASTRUCTURE.
9. IN-GROUND LINES SHALL BE PROTECTED FROM DIRT AND ROCKS TO THE MAXIMUM EXTENT POSSIBLE. WASTEWATER LINES, WHICH ARE CONNECTED TO LIFT STATIONS OR MANHOLES, SHALL BE PROPERLY PLUGGED (WITH A MECHANICAL PLUG) DURING CONSTRUCTION TO PREVENT THE ENTRY OF ANY FOREIGN MATTER INTO THE EXISTING WASTEWATER LINES. (*I.E. MUD, DIRT, ANIMAL REMAINS*)
10. FINES:
    A. TAMPERING WITH WASTEWATER MANHOLES, UP TO A $2,000 FINE.
    B. OPENING OR CLOSING A WCID-17 WATER VALVES WITHOUT A WCID-17 REPRESENTATIVE PRESENT IS A $2,000 FINE.
    C. TAMPERING WITH A FIRE HYDRANT (*OPENING OR CLOSING*) IS A $2,000 FINE.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY OF WORKMANSHIP AND THE SCHEDULE OF WORK.
12. THE CONTRACTOR SHALL EMPLOY ONLY EXPERIENCED PERSONNEL WHO ARE FAMILIAR WITH THE REQUIRED WORK AND SHALL PROVIDE FULL TIME SUPERVISION BY A QUALIFIED FOREMAN.

WCID #17 GENERAL NOTES:

WATER UTILITY NOTES

A. ALL EASEMENTS ARE REQUIRED TO BE STAKED OUT.
B. THE BACK OF THE CURB AND THE FINISHED GRADE ARE REQUIRED TO BE STAKED OUT.
C. ALL BENDS, GATE VALVES, TEES, AND REDUCERS MUST BE RESTRAINED.
D. ALL MAINS MUST HAVE A MINIMUM OF 40 INCHES AND A MAXIMUM OF 48 INCHES OF COVER FROM THE FINISHED GRADE TO THE TOP OF THE PIPE.
E. WATER LINE PIPE MUST BE C-900 DR-14 BLUE IN COLOR OR DUCTILE IRON PIPE CLASS 350.
F. ALL FIRE LINES MUST BE DUCTILE IRON PIPE CLASS 350.
G. GAS MAINS MUST BE INSTALLED BEFORE WATER SERVICES ARE PUT IN.
H. ALL DRY UTILITIES (I.E., ELECTRICAL, TELECOMMUNICATIONS, ETC.) MUST MAINTAIN A 5-FOOT HORIZONTAL SEPARATION (STARTING AT THE PIPE'S WALL) FROM WCID #17 APPURTENANCES.
I. WHEN ANY WATER/WASTEWATER UTILITY CROSSES ANY DRY UTILITY, A 2-FOOT VERTICAL SEPARATION (STARTING AT THE PIPE'S WALL) MUST BE MAINTAINED FROM WCID #17 APPURTENANCES.
J. THE WATER SERVICE SHOULD BE INSTALLED ONE FOOT AWAY FROM THE PROPERTY WITHIN AN EASEMENT.
K. FIRE HYDRANTS MUST HAVE A 7-FOOT SEPARATION FROM ANY STORM SEWER INLETS.
L. WATER LINES WITH 10% GRADE OR MORE MUST HAVE CONCRETE RETARDS EVERY 20 FEET PER WCID #17 DETAILS.
M. NO WATER UTILITIES THROUGH ANY ISLANDS.
N. FOR WATER LINES IN THE CONCRETE PAVEMENT AREA, THE CONTRACTOR IS TO INSTALL EXPANSION JOINTS 3' ON EACH SIDE FROM THE CENTER OF THE PIPE.

WASTEWATER UTILITY NOTES

A. ALL EASEMENTS ARE REQUIRED TO BE STAKED OUT.
B. THE BACK OF THE CURB AND THE FINISHED GRADE ARE REQUIRED TO BE STAKED OUT.
C. ALL DRY UTILITIES (I.E., ELECTRICAL, TELECOMMUNICATIONS, ETC.) MUST MAINTAIN A 5-FOOT HORIZONTAL SEPARATION (STARTING AT THE PIPE'S WALL) FROM WCID #17 APPURTENANCES.
D. SEPARATION (STARTING AT THE PIPE'S WALL) MUST BE MAINTAINED FROM WCID #17 APPURTENANCES.
E. ALL GRAVITY WASTEWATER UTILITIES AND SERVICES MUST BE GREEN COLOR PIPE ONLY AND SDR-26.
F. WASTEWATER SERVICE MUST HAVE A 7-FOOT SEPARATION FROM ANY STORM SEWER INLETS.
G. BOLT DOWN RING AND COVERS ON ALL MANHOLES THAT ARE NOT IN THE PAVEMENT ARE REQUIRED.
H. MANHOLES NOT IN THE ROADWAY MUST BE 1 FOOT ABOVE THE FINISHED GRADE.
I. NO WASTEWATER UTILITIES THROUGH ANY ISLANDS.
J. FOR UTILITY LINES IN THE CONCRETE PAVEMENT AREA, THE CONTRACTOR IS TO INSTALL EXPANSION JOINTS 3' ON EACH SIDE FROM THE CENTER OF THE PIPE.

IRRIGATION NOTES

WCID #17 WILL NOT SIGN OFF ON IRRIGATION PLANS AS PART OF THE SITE PLAN; THEY MUST BE SUBMITTED SEPARATELY TO WCID #17 ADMINISTRATION OFFICE FOR APPROVAL BEFORE OBTAINING A PERMIT.

LANDSCAPE NOTE

TREES MUST BE 7.5 FEET AWAY FROM ALL WCID #17 APPURTENANCES (I.E., WATER, WASTEWATER, METERS, ETC.).

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

GENERAL NOTES

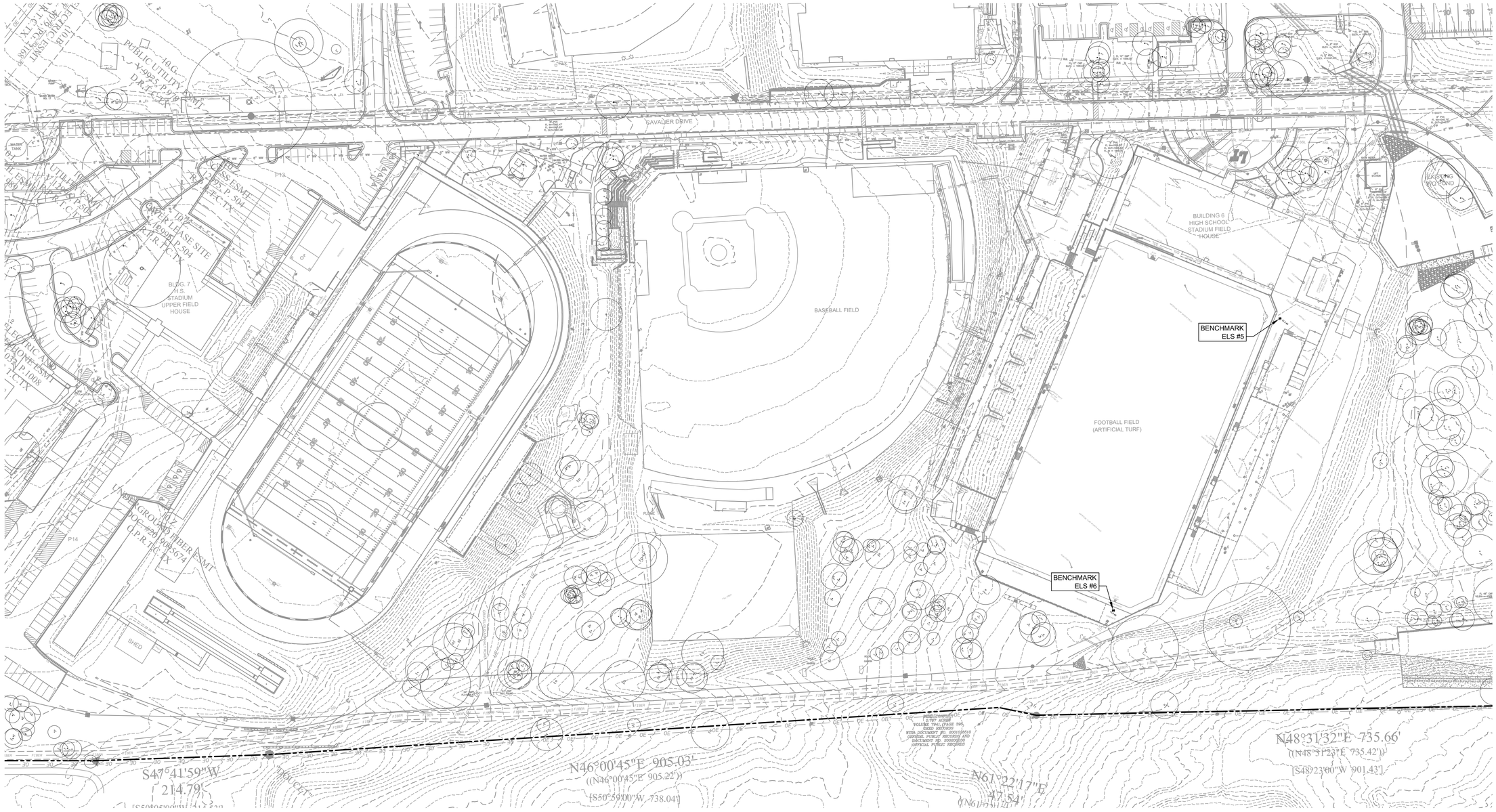
MALONE★WHEELER INC. SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/16/2025

DESIGN BY : SGC
CHECKED BY : AV
APPROVED BY : JBM
DATE : 6/16/2025

SHEET 03
OF 77

F:\LTISD OVERALL\PROJECTS\23-009-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\03 GENERAL NOTES 2.DWG, 6/26/2025, DAVID JOHNSTON



BENCHMARKS:

PROJECT SPECIFIC (PROVIDED BY EARLY SURVEY)

BENCHMARK INFORMATION:

ELS #5: MAG NAIL WITH "BAKER AICKLEN" WASHER FOUND IN ASPHALT

STATE PLANE COORDINATES:
N 10090037.52
E 3042839.34

ELEVATION = 1052.82'

ELS #6: MAG NAIL WITH WASHER SET IN CONCRETE

STATE PLANE COORDINATES:
N 10089628.43
E 3042915.86

ELEVATION = 1053.32'

NOTE: EXISTING CONDITIONS SHOWN ARE COMPILED FROM VARIOUS SOURCES. THESE SOURCES INCLUDE GROUND SURVEY, RECORD DRAWINGS PROVIDED BY LTISD, TELECOM SERVICE PROVIDER MAPS, PREVIOUS DESIGN DRAWINGS, AND FIELD OBSERVATIONS. THE DATA SOURCE FOR STRUCTURES, UTILITIES, TOPO, OR OTHER INFORMATION WILL BE PROVIDED UPON REQUEST.

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

EXISTING CONDITIONS

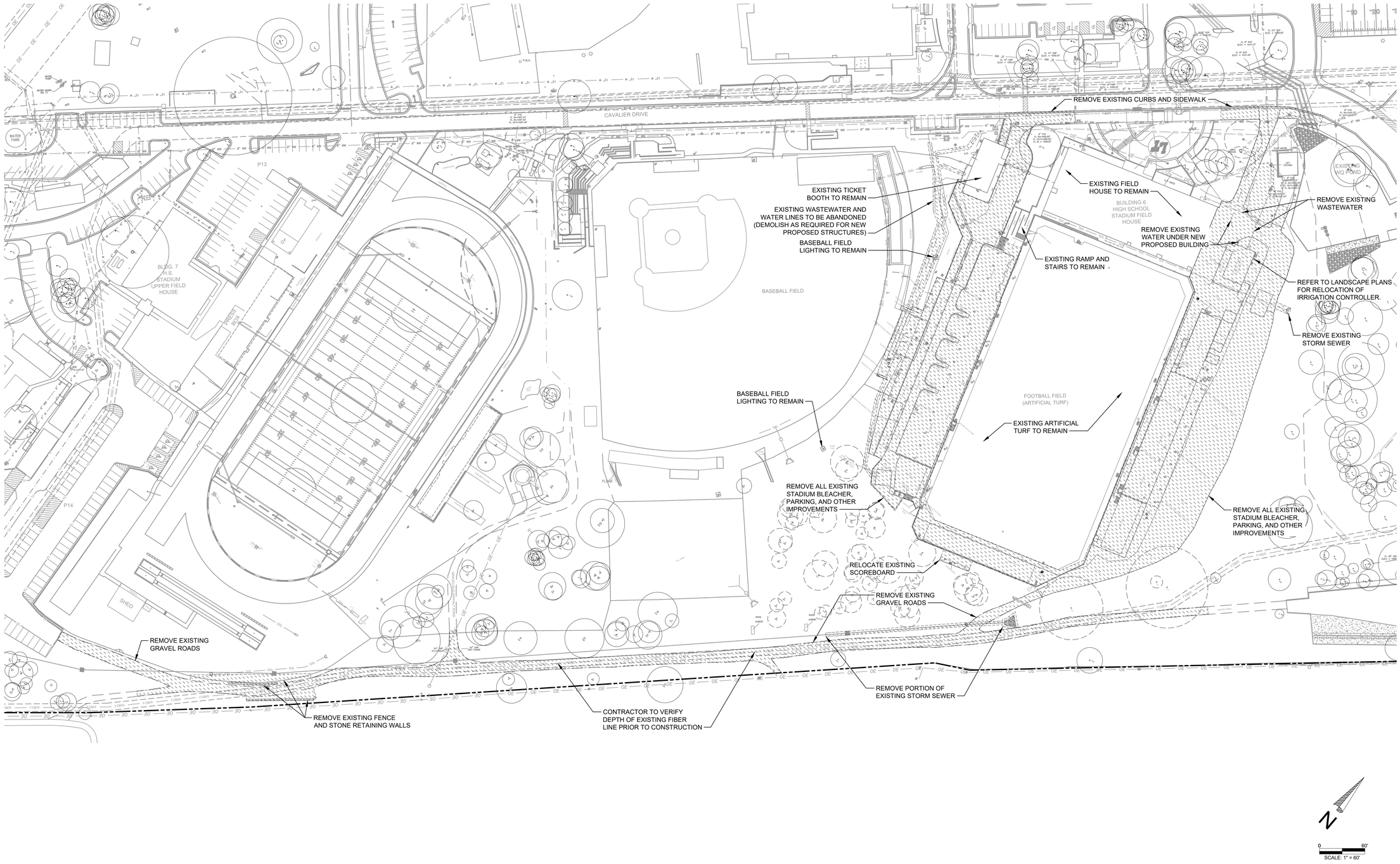
MALONE★WHEELER INC.
SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/26/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/26/2025

SHEET 04
OF 77

P:\LTISD OVERALL\PROJECTS\22-050-AUS LTHS 600\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\LTHS EXISTING CONDITIONS.DWG, 6/26/2025, DAVID JOHNSTON



NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

DEMOLITION PLAN

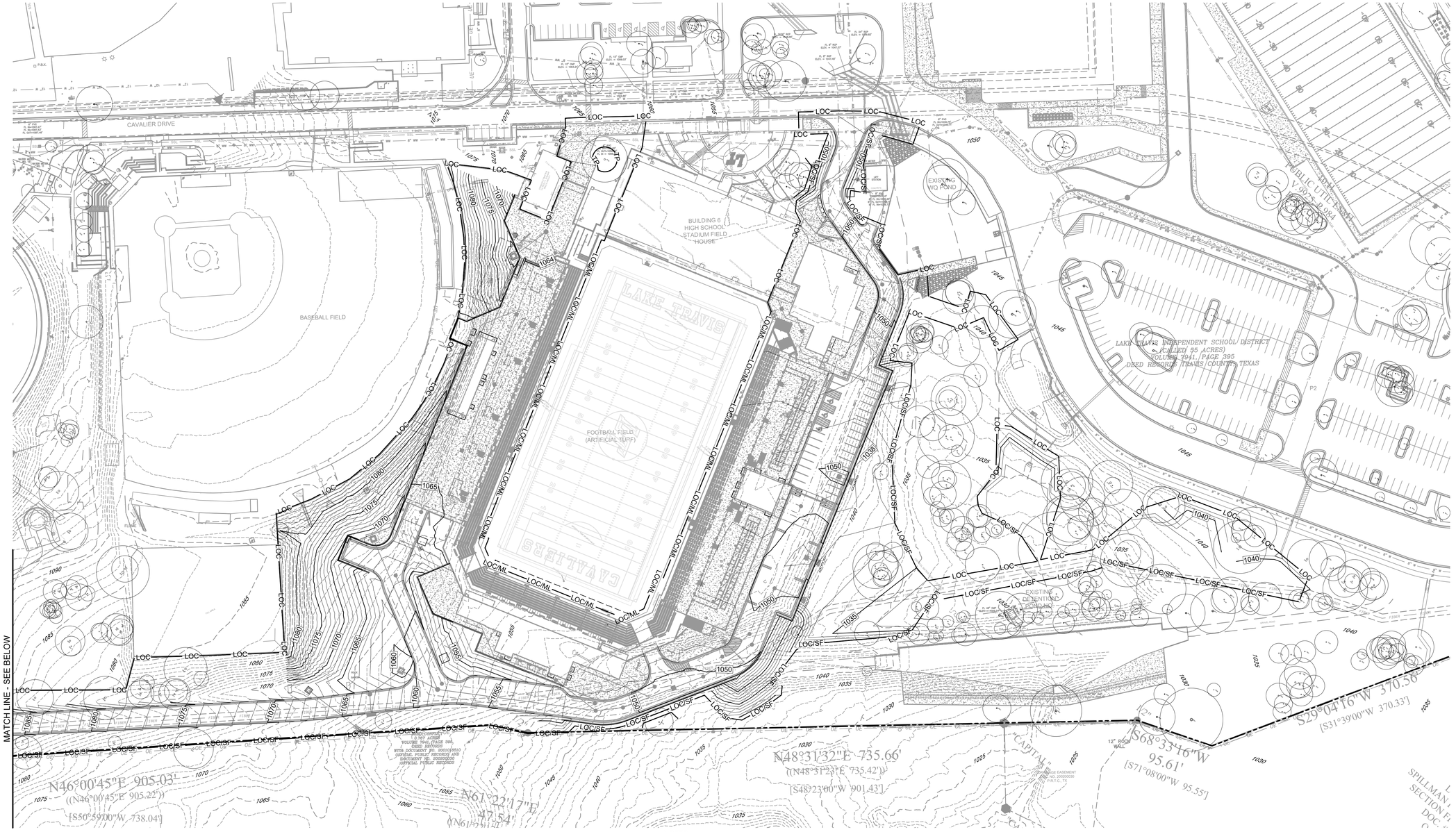
MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-3600 Fax: (512) 899-0655
Firm Registration No. F-786

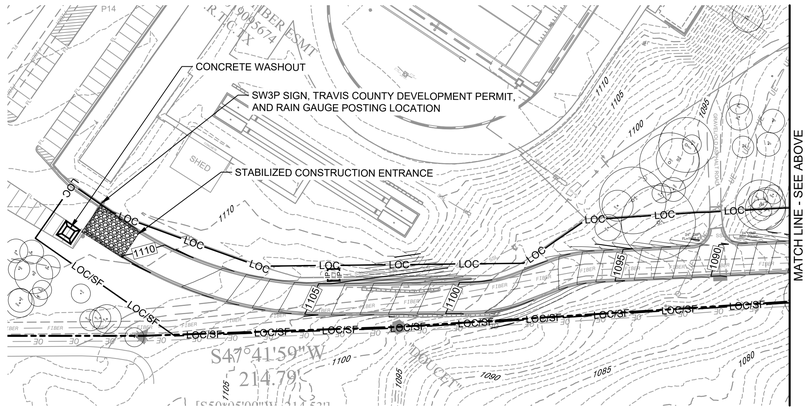
STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 05
OF 77

F:\LTISD OVERALL\PROJECTS\22-050-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\LTHS DEMOLITION PLAN.DWG, 6/26/2025, DAVID JOHNSTON





NOTES:

1. IF AN ADDITIONAL CONCRETE WASHOUT IS NEEDED, THE LOCATION WILL BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND WILL BE PROPERLY NOTATED ON THE ESC PLAN SHEET AND SWP3 AT THAT TIME.
2. ALL REQUIRED NOTICES AND PERMITS MUST BE PLACED IN A HIGHLY VISIBLE LOCATION ONSITE BEFORE THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EROSION AND SEDIMENTATION CONTROLS (ESC) MUST BE INSTALLED PRIOR TO ANY DISTURBANCE TO THE PROJECT SITE.
4. INSTALL SILT FENCE ACCORDINGLY FOR RUN-ON DIVERSION OR OFFSITE SEDIMENT CONTROL DEPENDING ON UP OR DOWN SLOPE, FACING POST SIDE ON THE DOWN GRADIENT SIDE.
5. ALL ESC USED ONSITE MUST BE REGULARLY MONITORED AND MAINTAINED AS NEEDED.
6. MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
7. EXCESS MATERIALS THAT WILL BE TRANSPORTED TO AN OFFSITE LOCATION MUST HAVE THAT LOCATION CLEARED BY COUNTY INSPECTOR.
8. LOOSE TRASH AND DEBRIS MUST BE DISPOSED OF PROPERLY ONSITE.
9. CONTRACTOR SHALL MAINTAIN AND UTILIZE DUST CONTROL FOR THE DURATION OF THE PROJECT.
10. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING ONTO THE PUBLIC ROADWAY ON AN ONGOING/REGULAR BASIS.
11. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY UPON INLET INSTALLATION.
12. INITIATE TEMPORARY STABILIZATION WHEN CONSTRUCTION CEASES IN A DISTURBED AREA FOR 14 DAYS.
13. INITIATE PERMANENT STABILIZATION IMMEDIATELY ONCE WORK HAS CEASED AND FINAL GRADE HAS BEEN ACHIEVED.
14. ALL DISTURBED/BARE AREAS WILL REQUIRE PERMANENT STABILIZATION BEFORE FINAL ACCEPTANCE CAN BE ACHIEVED. AVOID DISTURBING AREAS OF THE PROJECT THAT ARE NOT NECESSARY FOR CONSTRUCTION.
15. COUNTY INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE AS NEEDED.
16. TEMPORARY ESC MEASURES SHALL REMAIN IN PLACE IN ALL DISTURBED AREAS UNTIL ADEQUATE STABILIZATION HAS BEEN ACHIEVED.
17. CONTRACTOR MUST REMOVE SEDIMENT FROM ALL STORM SEWER INLET BOXES, LINES, PIPES AND CULVERTS BEFORE CONDITIONAL/FINAL ACCEPTANCE CAN OBTAINED.
18. TRAVIS COUNTY REQUIRES CERTIFIED SWP3 INSPECTORS TO CONDUCT SWP3 INSPECTIONS AND REPORTING ON ALL PROJECTS WITH ONE ACRE OF DISTURBANCE AND LARGER.
19. CONTRACTOR SHALL INSPECT ALL INLET PROTECTION DEVICES AS PART OF THE WEEKLY SWP3 REPORT. UPON RECEIVING A FORECAST CALLING FOR A RAIN EVENT FOR AN EXTENDED PERIOD OR AN INTENSE RAIN EVENT, MODIFICATION OF INLET PROTECTION SHOULD BE MADE TO PREVENT FLOODING OR PONDING OF WATER IF TRAFFIC OR PROPERTY CONCERNS ARISE.
20. ANY MULCH THAT IS CREATED SHOULD BE RETAINED AND STOCKPILED ON SITE TO BE USED AS TEMPORARY/TRANSITIONAL STABILIZATION MEASURES AS NEEDED/REQUIRED.
21. ORANGE CONSTRUCTION FENCING SHALL BE INSTALLED WHERE THE LOC IS SHOWN UNLESS SILT FENCE OR OTHER EROSION CONTROL ITEMS PROVIDE LOC DELINEATION.

LEGEND

- PROPERTY BOUNDARY
- LOC — LIMITS OF CONSTRUCTION
- LOC/SF — SILT FENCE AT LIMITS OF CONSTRUCTION
- LOC/ML — MULCH LOG AT LIMITS OF CONSTRUCTION
- SF — SILT FENCE
- JH — SILT FENCE W/ J HOOKS
- IP — INLET PROTECTION
- TP — TREE PROTECTION
- ML — MULCH LOG
- ROCK BERM
- SPREADER BERM
- ROCK RIP RAP
- CONTRACTOR'S STAGING/SPOILS AREA
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- 950 — PROPOSED FINISHED GRADE
- 10" — TREE TO REMAIN
- 10" — TREE TO BE REMOVED

N

0 60'
SCALE: 1" = 60'

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

EROSION CONTROL PLAN

MALONE★WHEELER INC.
SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0600 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 06
OF 77

P:\LTISD_OVERALL\PROJECTS\23-050-AUS LTHS 620\DRAWINGS\PLANSET\06 EROSION CONTROL PLAN.DWG, 6/20/2025, DAVID JOHNSTON

PREDEVELOPED DRAINAGE AREAS

DRAIN. AREA NO.	AREA (acres)	MANNING n	TC (min)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
PRE-A	107.01	0.24	23.34	76	144.74	325.93	470.27	747.90	PRE-A
PRE-B1	19.64	0.24	16.36	76	29.63	66.65	96.11	152.25	PRE-B1
PRE-B2	6.27	0.24	15.27	76	9.67	21.65	31.22	49.59	PRE-B2
PRE-C	14.28	0.24	15.84	76	21.80	48.93	70.50	111.60	PRE-C
PRE-D	5.00	0.24	14.04	76	7.94	17.90	25.82	40.93	PRE-D
PRE-E	7.38	0.24	12.20	76	12.21	27.27	39.23	62.03	PRE-E
PRE-F	2.62	0.24	10.78	76	4.45	9.99	14.40	22.81	PRE-F
TOTAL	162.20				230.44	518.32	747.55	1187.11	TOTAL

Notes:
1. Pre-developed conditions analyze the drainage patterns prior to any development on site.
2. All proposed improvements are located within the area that contributed to Analysis Point "A".

N

0 120'
SCALE: 1" = 120'

LEGEND

- PROPERTY BOUNDARY
- EXIST. STORM SEWER
- EXIST. CURB INLET
- EXIST. DRAINAGE AREA
- EXIST. FLOW DIRECTION
- E-1 / 1.00 ACRES — EXIST. DRAINAGE AREA ID / DRAINAGE AREA ACREAGE

PRE-B1
19.64 ACRES

PRE-D
5.00 ACRES

PRE-A
107.01 ACRES

PRE-C
14.28 ACRES

PRE-F
2.62 ACRES

PRE-E
7.38 ACRES

PRE-B2
6.27 ACRES

ANALYSIS POINT A

ANALYSIS POINT B1

ANALYSIS POINT B2

ANALYSIS POINT C

ANALYSIS POINT D

ANALYSIS POINT E

ANALYSIS POINT F

Tc

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

PRE-DEVELOPED DRAINAGE AREAS

MALONE★WHEELER INC.
SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0401 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/13/2025

DESIGN BY : CM
CHECKED BY : AV
APPROVED BY : JM
DATE : 6/13/2025

SHEET 07
OF 77

P:\LTISD_OVERALL\PROJECTS\23-030-AUS_LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\07 PRE-DEVELOPED DRAINAGE AREAS.DWG, 6/30/2025, DAVID JOHNSTON

EXISTING DRAINAGE AREAS

DRAIN. AREA NO.	AREA (acres)	MANNING n	TC (min)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
E-A1	101.20	0.24	23.39	87	**202.56**	**380.61**	**515.38**	**767.61**	**E-A1**
E-A2	13.15	0.24	7.90	88	**36.00**	**66.44**	**89.41**	**132.38**	**E-A2**
E-A3	1.91	0.24	8.90	79	**3.85**	**8.12**	**11.45**	**17.73**	**E-A3**
E-A4	1.59	0.24	13.51	91	**4.27**	**7.57**	**10.06**	**14.72**	**E-A4**
TOTAL	117.85				246.68	462.74	626.30	932.44	**TOTAL**

Notes:
1. Existing conditions are site conditions following the construction of any previously approved plans.
2. Atlas 14 rainfall data used for drainage modeling.

N

0 120'
SCALE: 1" = 120'

LEGEND

- PROPERTY BOUNDARY
- EXIST. STORM SEWER
- EXIST. CURB INLET
- EXIST. DRAINAGE AREA
- EXIST. FLOW DIRECTION
- E-A1 / 1.00 ACRES — EXIST. DRAINAGE AREA ID / DRAINAGE AREA ACREAGE

LV: 528' @ 6FT/S

SCF: 159' @ 4.9%

SCF: 89' @ 13.0%

SF: 100' @ 1.0%

SCF: 141' @ 1.4%

L/V: 905 @ 10.50FT/S

E-A1
101.20 ACRES

WATER QUALITY POND #1

L/V: 615@ 6FT/S

TY POND #3

RR 620

EXISTING
DETENTION
POND 2

SCF: 20' @ 2.5%

SF: 100' @ 2.0%

SF: 25' @ 12.0%

SCF: 75' @ 4.8%

SCF: 85' @ 2.8%

L/V: 463' @ 10FT/S

E-A2
13.16 ACRES

L/V: 1,885' @ 10FT/S

SF: 100' @ 6.7%

SCF: 226' @ 4.0%

E-A3
1.90 ACRES

SCF: 155' @ 1.0%

E-A4
1.59 ACRES

START E-A4 LAG
(AREA E-A4 CONVEYED TO
POND 2 VIA STORM SEWER)

ANALYSIS POINT A

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

EXISTING DRAINAGE AREA MAP

MALONE★WHEELER INC. SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0400 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/16/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/16/2025

SHEET 08
OF 77

F:\LTISD OVERALL\PROJECTS\23-009-AUS LTHS 626\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\08 EXISTING DRAINAGE AREA MAP.DWG, 6/20/2025, DAVID JOHNSTON

EXISTING DRAINAGE AREAS

DRAIN. AREA NO.	AREA (acres)	MANNING n	TC (min)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
E-A1	101.20	0.24	23.39	87	**202.56**	**380.61**	**515.38**	**767.61**	**E-A1**
E-A2	13.15	0.24	7.90	88	**36.00**	**66.44**	**89.41**	**132.38**	**E-A2**
E-A3	1.91	0.24	8.90	79	**3.85**	**8.12**	**11.45**	**17.73**	**E-A3**
E-A4	1.59	0.24	13.51	91	**4.27**	**7.57**	**10.06**	**14.72**	**E-A4**
TOTAL	117.85				246.68	462.74	626.30	932.44	**TOTAL**

Notes:
1. Existing conditions are site conditions following the construction of any previously approved plans.
2. Atlas 14 rainfall data used for drainage modeling.

N

0 120'
SCALE: 1" = 120'

LEGEND

- PROPERTY BOUNDARY
- EXIST. STORM SEWER
- EXIST. CURB INLET
- EXIST. DRAINAGE AREA
- EXIST. FLOW DIRECTION
- E-A1 / 1.00 ACRES — EXIST. DRAINAGE AREA ID / DRAINAGE AREA ACREAGE

L/V: 528' @ 6FT/S

SCF: 159' @ 4.9%

SCF: 141' @ 1.4%

SCF: 89' @ 13.0%

SF: 100' @ 1.0%

L/V: 905 @ 10.50FT/S

E-A1
101.20 ACRES

WATER QUALITY POND #1

L/V: 615@ 6FT/S

TY POND #3

RR 620

SCF: 20' @ 2.5%

SF: 100' @ 2.0%

SF: 25' @ 12.0%

SCF: 75' @ 4.8%

SCF: 85' @ 2.8%

L/V: 463' @ 10FT/S

E-A2
13.16 ACRES

EXISTING
DETENTION
POND 2

L/V: 1,885' @ 10FT/S

SF: 100' @ 6.7%

SCF: 226' @ 4.0%

E-A3
1.90 ACRES

E-A4
1.59 ACRES

SCF: 155' @ 1.0%

START E-A4 LAG
(AREA E-A4 CONVEYED TO
POND 2 VIA STORM SEWER)

ANALYSIS POINT A

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

PROPOSED DRAINAGE AREA MAP

MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0401 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 09
OF 77

F:\LTISD OVERALL\PROJECT\3\23-000-AUS LTHS 620\DRAWINGS\PLANS\ETL\THS FOOTBALL STADIUM\DRAWINGS\PLANSET\09 PROPOSED DRAINAGE AREA MAP.DWG, 6/26/2025, DAVID JOHNSTON

PROPOSED DRAINAGE AREAS

DRAIN. AREA NO.	AREA (acres)	MANNING n	TC (min)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
P-A1	102.14	0.24	23.39	86	198.15	377.88	514.28	769.65	P-A1
P-A2	13.15	0.24	7.99	88	36.00	66.44	89.41	132.38	P-A2
P-A3	1.91	0.24	8.90	79	3.85	8.12	11.45	17.73	P-A3
P-A4	1.59	0.24	13.51	91	4.27	7.57	10.06	14.72	P-A4
P-B1	14.96	0.24	15.88	79	26.01	55.24	78.07	121.21	P-B1
P-B2	3.66	0.24	15.31	87	8.43	15.84	21.46	31.96	P-B2
P-C1	7.56	0.24	9.82	89	20.74	37.68	50.44	74.34	P-C1
P-C2	4.59	0.24	10.75	86	11.34	21.53	29.26	43.72	P-C2
P-C3	3.81	0.24	11.67	87	9.50	17.82	24.12	35.90	P-C3
P-E1	0.92	0.24	5.00	84	2.36	4.58	6.26	9.41	P-E1
P-D1	3.83	0.24	11.18	83	8.47	16.87	23.30	35.38	P-D1
P-F1	4.26	0.24	7.13	86	11.22	21.26	28.86	43.08	P-F1
TOTAL	162.38				340.34	650.63	886.97	1329.48	TOTAL

ANALYSIS POINT FLOW RATES

ANALYSIS POINT	FLOW SCENARIO	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)
AP-A	PRE-DEVELOPED	144.74	325.93	470.27	747.90
	EXISTING	137.82	197.93	242.81	701.59
	PROPOSED	138.98	199.15	244.11	721.32
AP-B1	PRE-DEVELOPED	29.63	66.65	96.11	152.25
	EXISTING	26.01	55.24	78.07	121.21
	PROPOSED	26.01	55.24	78.07	121.21
AP-B2	PRE-DEVELOPED	9.67	21.65	31.22	49.59
	EXISTING	12.41	23.00	30.99	45.95
	PROPOSED	8.43	15.84	21.46	31.96
AP-C	PRE-DEVELOPED	21.80	48.93	70.50	111.60
	EXISTING	19.35	40.56	54.62	123.40
	PROPOSED	19.35	40.56	54.62	123.40
AP-D	PRE-DEVELOPED	7.94	17.90	25.82	40.93
	EXISTING	8.47	16.87	23.30	35.38
	PROPOSED	8.47	16.87	23.30	35.38
AP-E	PRE-DEVELOPED	12.21	27.27	39.23	62.03
	EXISTING	2.07	3.95	5.37	8.03
	PROPOSED	2.36	4.58	6.26	9.41
AP-F	PRE-DEVELOPED	4.45	9.99	14.40	22.81
	EXISTING	11.22	21.23	28.86	43.08
	PROPOSED	11.22	21.23	28.86	43.08

Notes:
1. Pre-developed conditions analyze the drainage patterns prior to any development on site.
2. Existing conditions are site conditions following the construction of "Lake Travis High School 2024 Phase 1" Improvements (TNR PERMIT #23-44877)
3. Atlas 14 rainfall data used for drainage modeling.

SCALE: 1" = 120'

LEGEND

- PROPERTY BOUNDARY
- EXIST. STORM SEWER
- EXIST. CURB INLET
- PROP. DRAINAGE AREA
- PROP. FLOW DIRECTION
- P-A1 / 1.00 ACRES — PROP. DRAINAGE AREA ID / DRAINAGE AREA ACREAGE

ANALYSIS POINT D
ANALYSIS POINT C
ANALYSIS POINT B1
ANALYSIS POINT B2
ANALYSIS POINT F
ANALYSIS POINT E
ANALYSIS POINT A
WQ:1A 70.06 ACRES
WQ:1B 3.76 ACRES
WQ:3 9.19 ACRES
X:1 1.03 ACRES
EXISTING DETENTION POND 1
EXISTING DETENTION POND 2
WATER QUALITY POND #1
WATER QUALITY POND #3
EDWARDS AQUIFER CONTRIBUTING ZONE NORTHERN BOUNDARY
START P-A4 LAG (AREA P-A4 CONVEYED TO POND 2 VIA STORM SEWER)

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

PROPOSED WATER QUALITY DRAINAGE AREA MAP

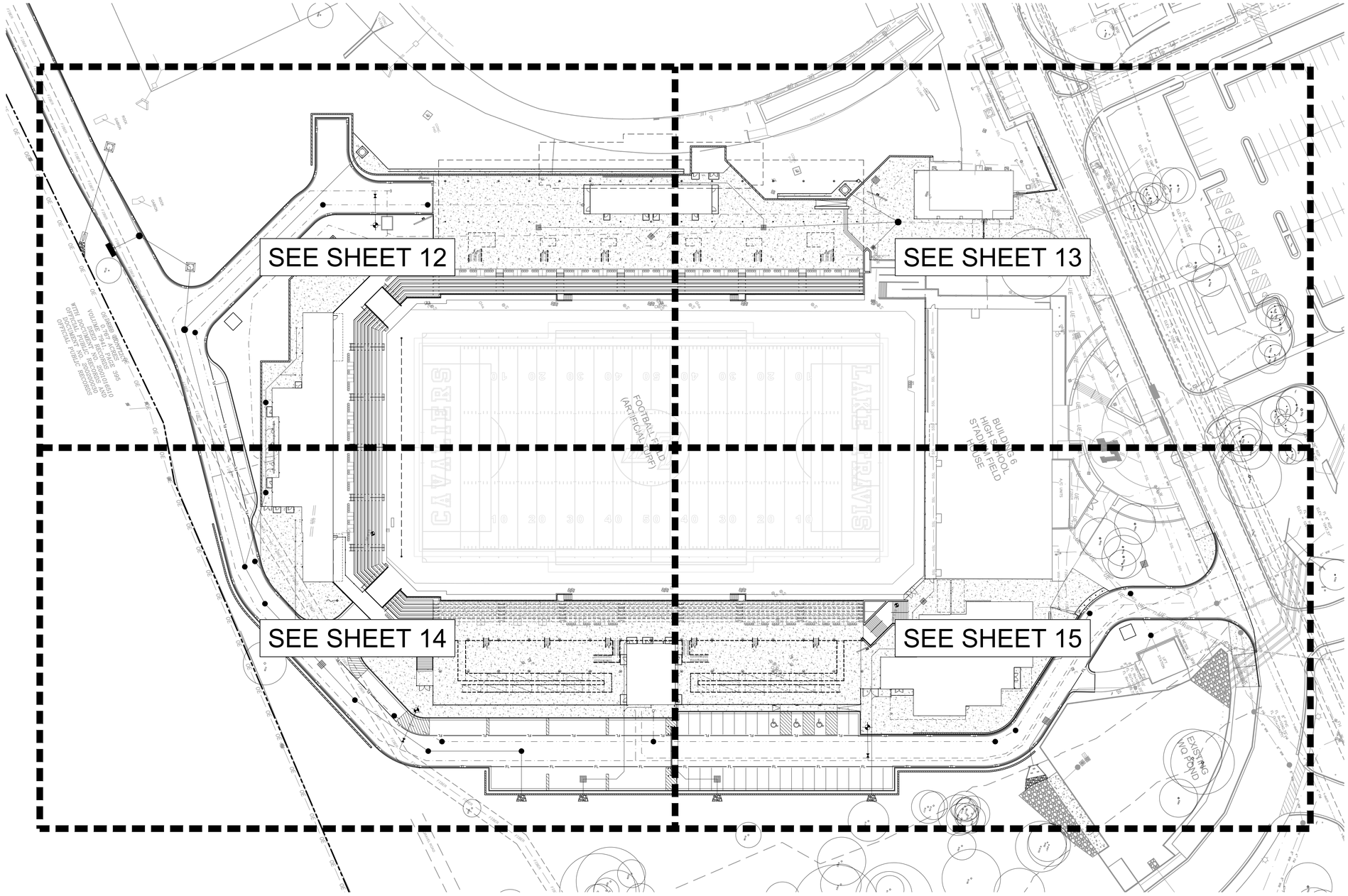
MALONE★WHEELER INC. SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 240
Austin, Texas 78735
Phone: (512) 899-0401 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 10 OF 77

P:\LTISD_OVERALL\PROJECT\23-030-AUS_LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM DRAWINGS\P-LANSET\10 PROPOSED WATER QUALITY DRAINAGE AREA MAP.DWG, 6/26/2025, DAVID JOHNSTON



NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

PROPOSED SITE PLAN

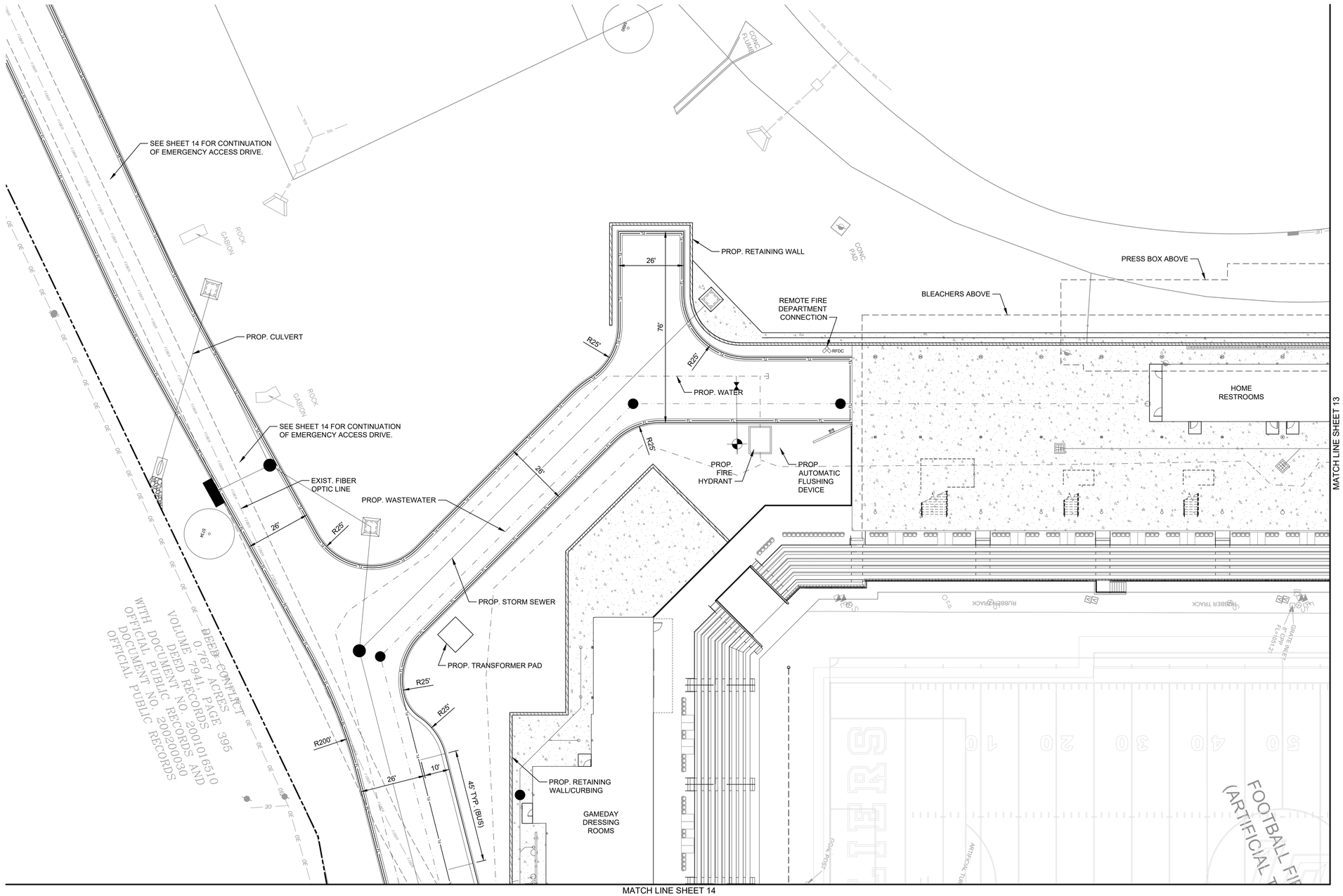
MALONE★WHEELER INC. SINCE 1995
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STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 11
OF 77

F:\LTISD OVERALL\PROJECTS\23-090-AUS, LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\1 PROPOSED SITE PLAN.DWG, 6/26/2025, DAVID JOHNSTON



N

0 20'
SCALE: 1" = 20'

LEGEND

- PROPERY LINE
- PROP. CURB & GUTTER
- PROP. SIDEWALK
- PROP. RAMP
- EXIST. EASEMENT
- PROP. FIRE LANE MARKING

NOTE: SEE ARCHITECTURAL PLANS STRUCTURAL PLANS FOR BLEACHERS

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED SITE PLAN

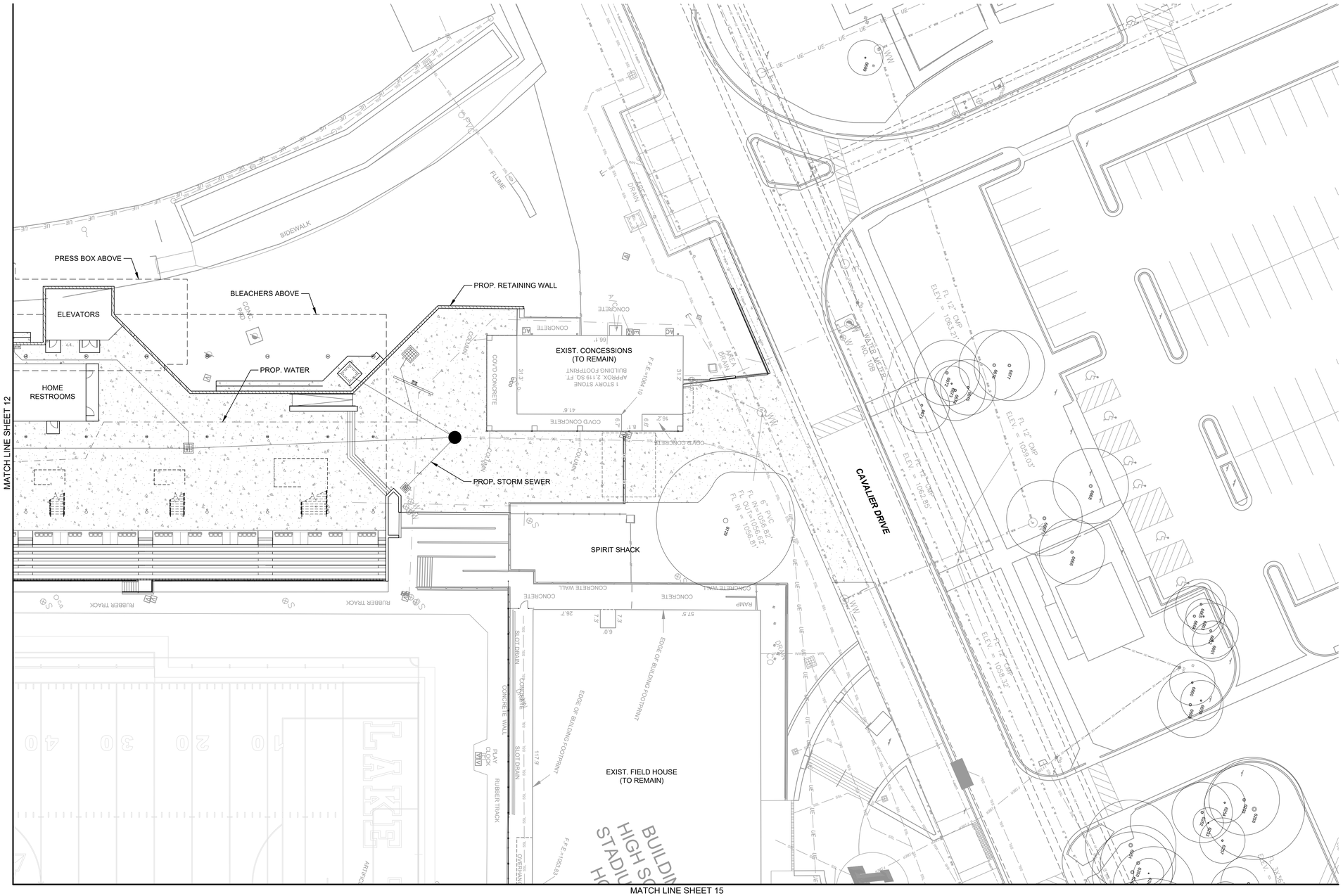
MALONE★WHEELER SINCE INC. 1995
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5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899.0601 Fax: (512) 899.0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 12
OF 77

F:\LTISD OVERALL\PROJECTS\23-050-AUS LTHS 6\0\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM PROPOSED SITE PLAN.DWG, 6/26/2025, DAVID JOHNSTON



NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED SITE PLAN

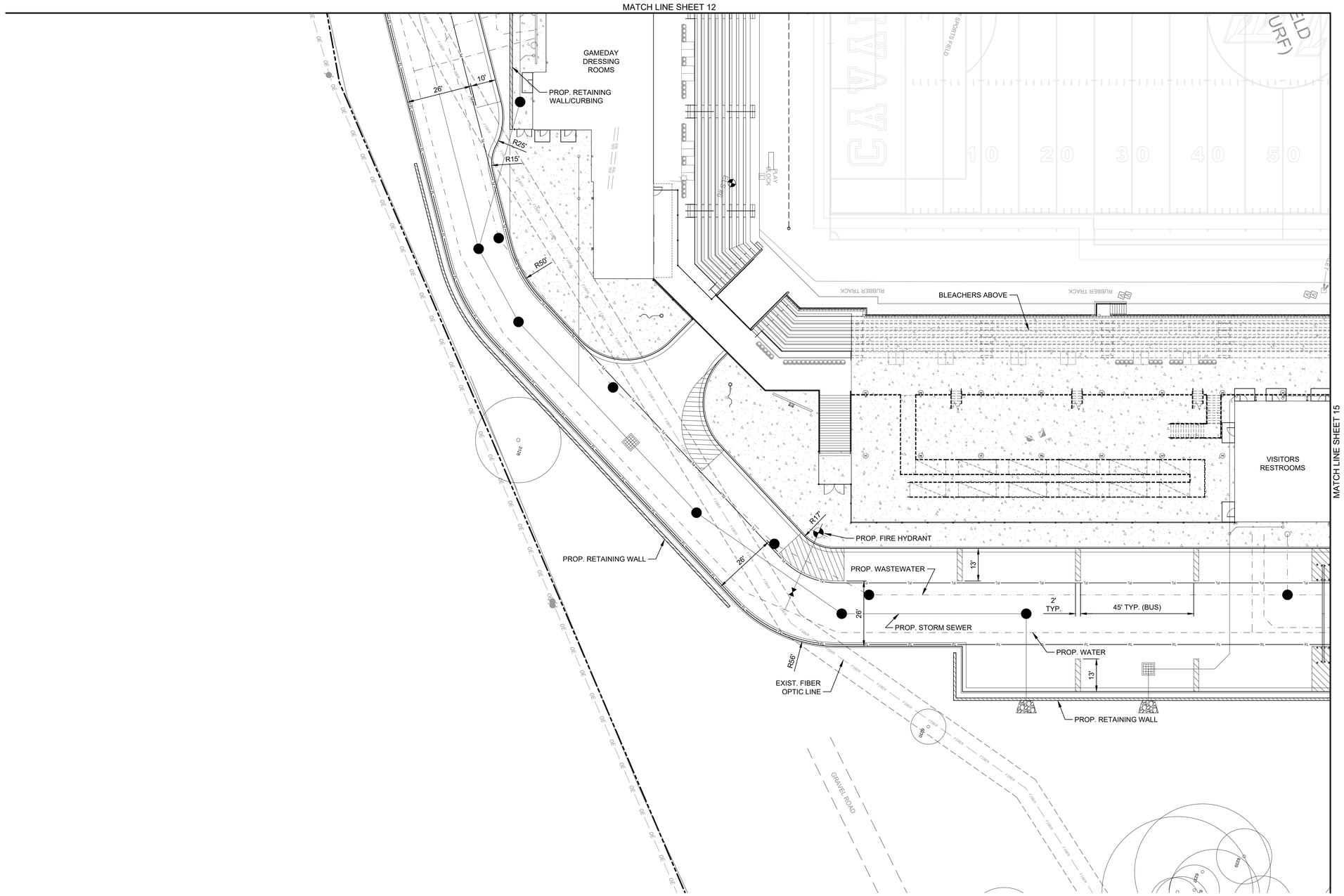
MALONE★WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0401 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 13
OF 77

F:\LTISD OVERALL\PROJECTS\23-050-AUS LTHS 60\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM SITE PLAN.DWG, 6/26/2025, DAVID JOHNSTON



NOTE: SEE ARCHITECTURAL PLANS STRUCTURAL PLANS FOR BLEACHERS

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED SITE PLAN

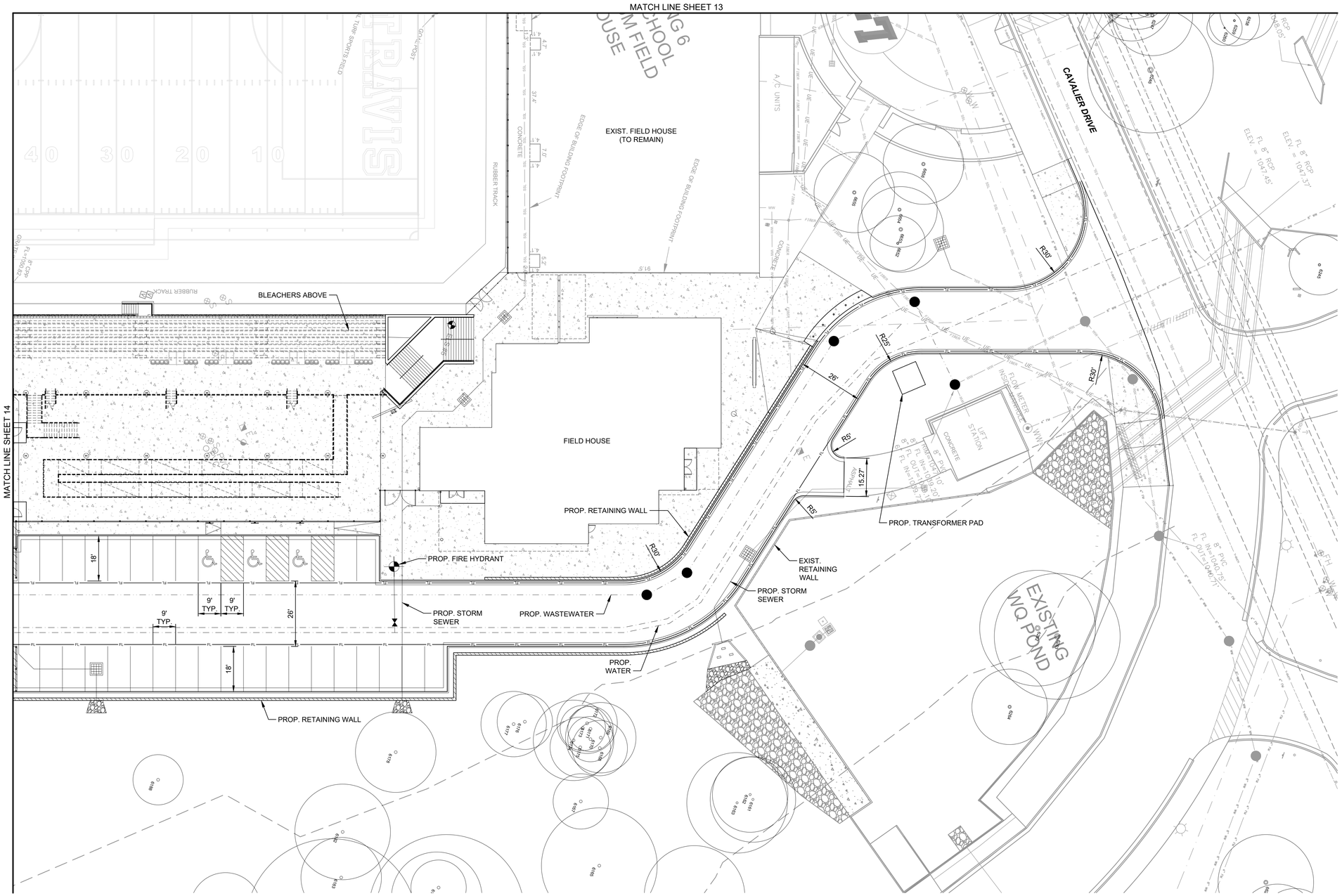
MALONE★WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899.0601 Fax: (512) 899.0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 14
OF 77

P:\LTISD_OVERALL\PROJECTS\23-000-AUS_LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\11 PROPOSED SITE PLAN.DWG, 6/26/2025, DAVID JOHNSTON



N

0 20'
SCALE: 1" = 20'

LEGEND

- PROPERY LINE
- PROP. CURB & GUTTER
- PROP. SIDEWALK
- PROP. RAMP
- EXIST. EASEMENT
- PROP. FIRE LANE MARKING

NOTE: SEE ARCHITECTURAL PLANS STRUCTURAL PLANS FOR BLEACHERS

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED SITE PLAN

MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
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Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 15
OF 77

F:\LTISD OVERALL\PROJECTS\23-009-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\11 PROPOSED SITE PLAN.DWG, 6/26/2025, DAVID JOHNSTON

PROP. EMERGENCY GATE
WITH KNOX BOX

SHED

CONCRETE

GRAVEL

PROP. FENCE

PROP. RETAINING WALL

R300'

R100'

26'

EXIST. FIBER
OPTIC LINE

MATCH LINE - SEE BELOW

N

0 20'

SCALE: 1" = 20'

LEGEND

- PROPERY LINE
- PROP. CURB & GUTTER
- PROP. SIDEWALK
- PROP. RAMP
- EXIST. EASEMENT
- PROP. FIRE LANE MARKING

MATCH LINE - SEE ABOVE

ASPHALT ROAD

24" CMP
FL=1088.67'

24" CMP
NOT FOUND

R15'

R15'

26'

EXIST. FIBER
OPTIC LINE

ROCK
GABION

ROCK
GABION

PROP. STORM
SEWER CULVERT

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED ACESS ROAD

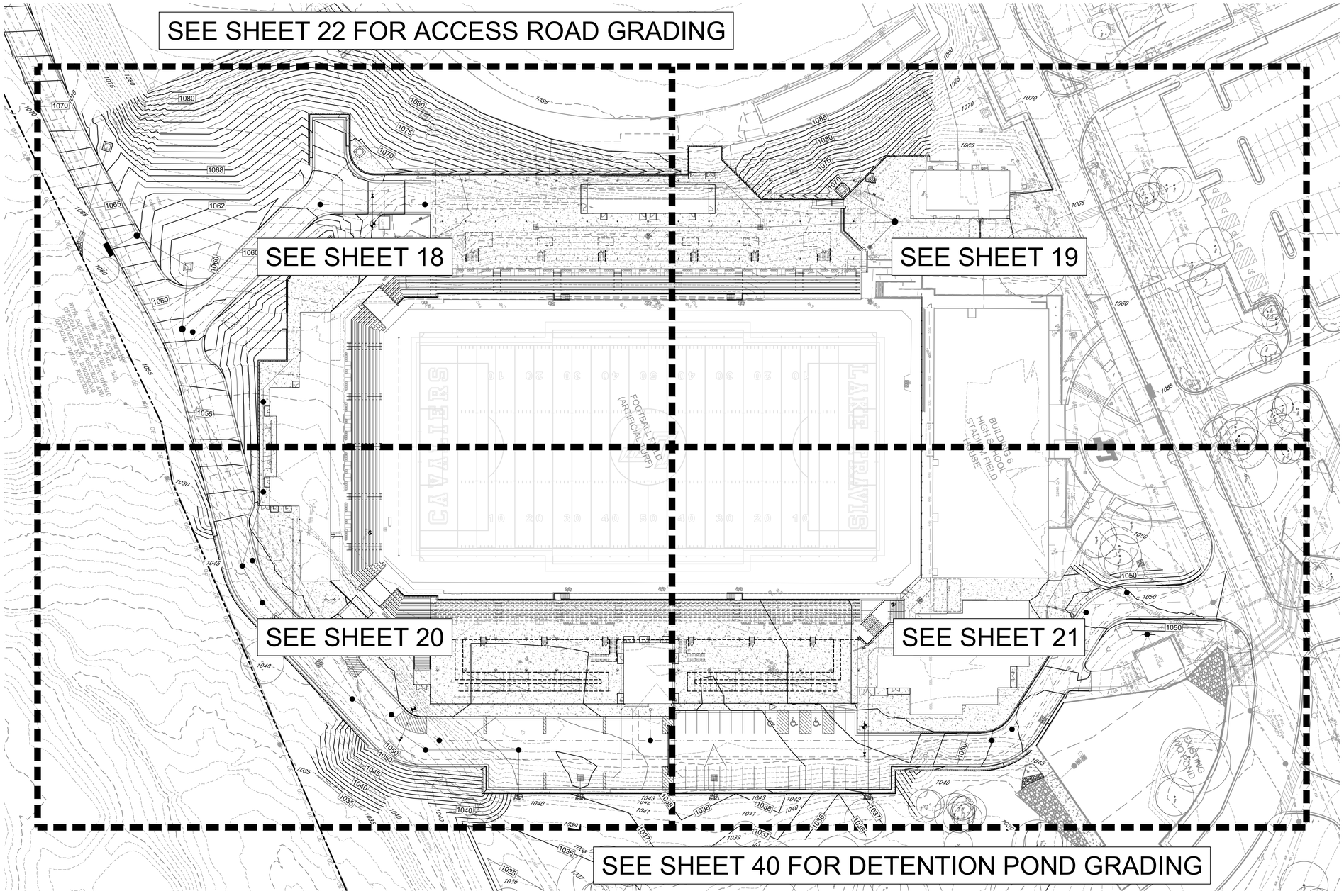
MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
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Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 16
OF 77

F:\LTISD OVERALL\PROJECTS\23-009-AUS LTHS 026\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\1 PROPOSED SITE PLAN DWG, 6/26/2025, DAVID JOHNSTON



LEGEND

- EXIST. PROPERTY LINE
- 350 EXIST. GROUND CONTOUR
- 350 PROP. FINISHED CONTOUR
- 930.00 PROP. SPOT ELEVATION
- PROP. STORM SEWER
- PROP. CURB INLET
- PROP. GRATE INLET

SPOT ELEVATION KEY

TC	CONCRETE SURFACE
TP	TOP OF PAVEMENT
SW	TOP OF SIDEWALK
TW	TOP OF WALL
BW	BOTTOM OF WALL
HP	HIGH POINT
TI	TOP OF INLET
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
EX	EXISTING GRADE

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

PROPOSED GRADING PLAN

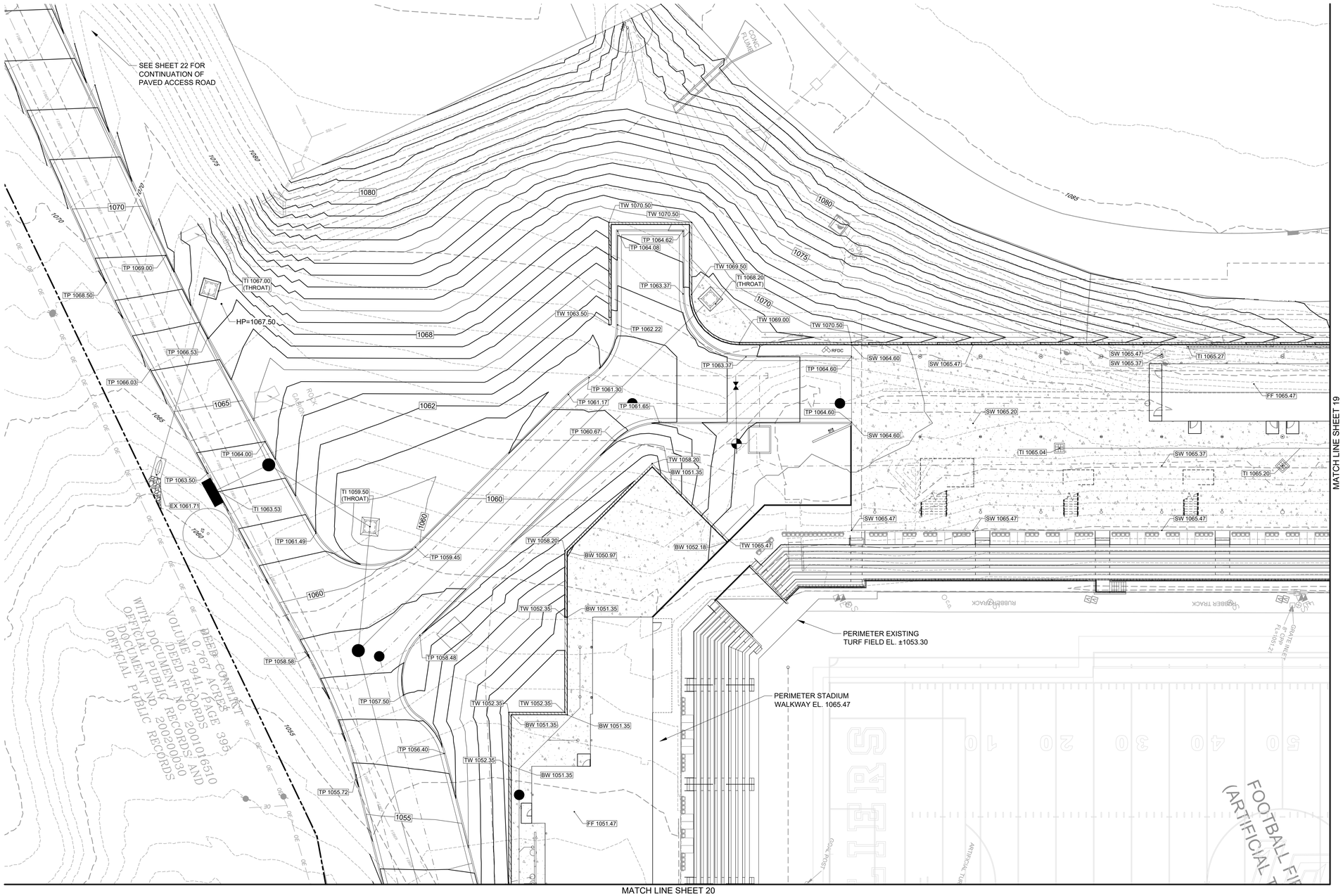
MALONE★WHEELER INC. SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 17
OF 77

F:\LTISD OVERALL\PROJECTS\23-099-AUS LTHS E20\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\17 PROPOSED GRADING PLAN.DWG, 6/26/2025, DAVID JOHNSTON



N

0 20'

SCALE: 1" = 20'

LEGEND

- EXIST. PROPERTY LINE
- 350 EXIST. GROUND CONTOUR
- 350 PROP. FINISHED CONTOUR
- 930.00 PROP. SPOT ELEVATION
- PROP. STORM SEWER
- PROP. CURB INLET
- PROP. GRATE INLET

SPOT ELEVATION KEY

TC	CONCRETE SURFACE
TP	TOP OF PAVEMENT
SW	TOP OF SIDEWALK
TW	TOP OF WALL
BW	BOTTOM OF WALL
HP	HIGH POINT
TI	TOP OF INLET
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
EX	EXISTING GRADE

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED GRADING PLAN

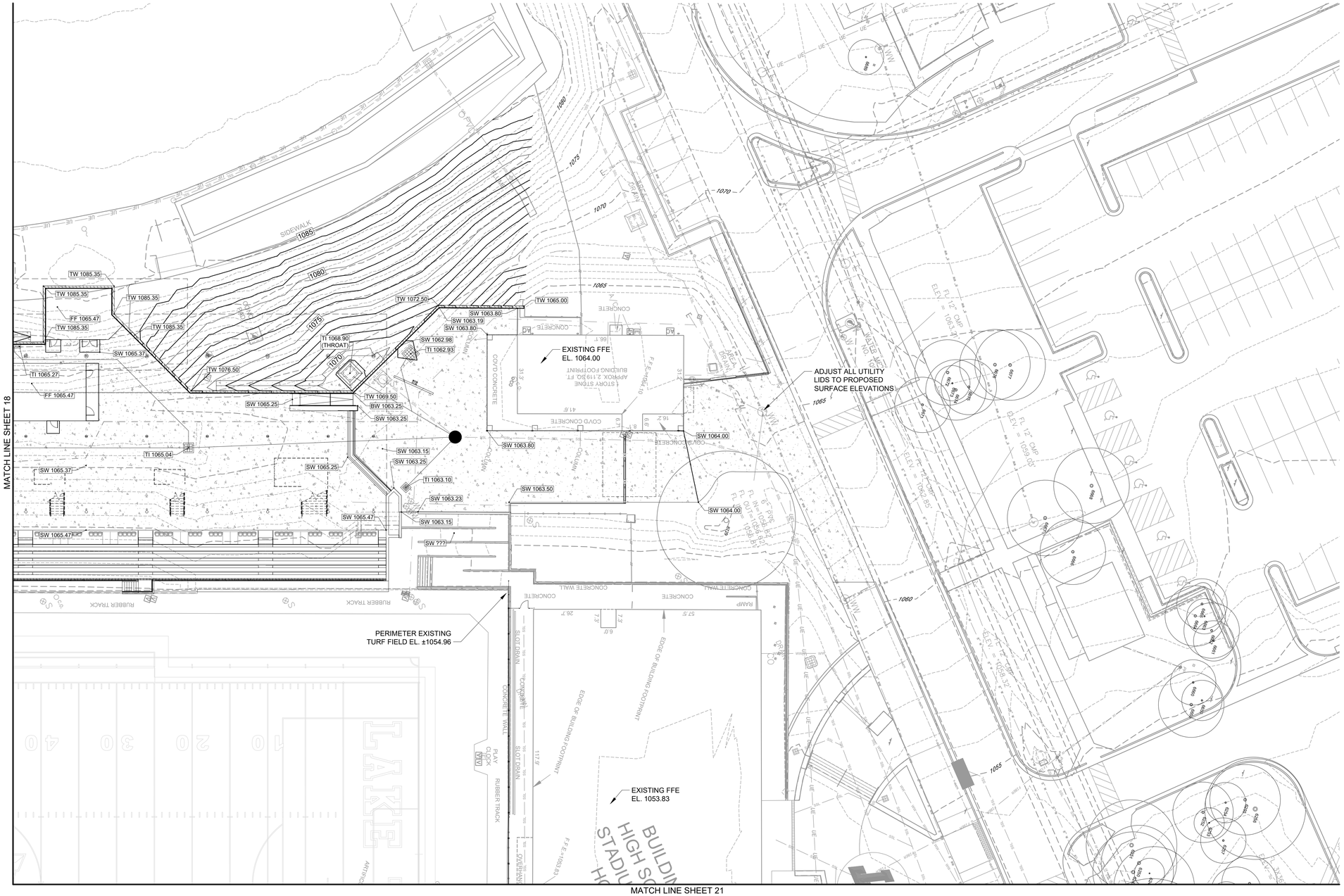
MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
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STATE OF TEXAS
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5/2/2025

DESIGN BY :	CM
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APPROVED BY :	JM
DATE :	5/2/2025

SHEET 18
OF 77

F:\LTISD_OVERALL\PROJECTS\23-050-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\17 PROPOSED GRADING PLAN.DWG, 4/28/2025, DAVID JOHNSTON


MATCH LINE SHEET 18
MATCH LINE SHEET 21
EXISTING FFE
EL. 1064.00
ADJUST ALL UTILITY
LIDS TO PROPOSED
SURFACE ELEVATIONS
PERIMETER EXISTING
TURF FIELD EL. ±1054.96
EXISTING FFE
EL. 1053.83
SIDEWALK
RUBBER TRACK
CONCRETE WALL
PLAY
LOCK
RUBBER TRACK
LAKE TRAVIS
BUILDING FOOTPRINT
EDGE OF BUILDING FOOTPRINT
CONCRETE
COVD CONCRETE
CONCRETE WALL
RAMP
SLOT DRAIN
OVERHANG
TW 1085.35
TW 1085.35
TW 1085.35
FF 1065.47
TW 1085.35
TW 1085.35
SW 1065.37
TI 1065.27
FF 1065.47
TW 1076.50
TW 1072.50
TW 1065.00
SW 1063.80
SW 1063.19
SW 1063.80
TI 1068.90
(THROAT)
SW 1062.98
TI 1062.93
SW 1065.25
TW 1069.50
BW 1063.25
SW 1063.25
SW 1064.00
SW 1063.80
SW 1063.15
SW 1063.25
TI 1065.04
SW 1065.37
SW 1065.25
TI 1063.10
SW 1063.50
SW 1063.23
SW 1064.00
SW 1065.47
SW 1063.15
SW 1065.47
SW ???
TW 1085.35
TW 1085.35
TW 1085.35
SW 1063.80
SW 1063.19
SW 1063.80
TW 1072.50
TW 1065.00
TI 1068.90
(THROAT)
SW 1062.98
TI 1062.93
TW 1076.50
SW 1065.25
TW 1069.50
BW 1063.25
SW 1063.25
SW 1063.15
SW 1063.25
TI 1065.04
SW 1065.37
SW 1065.25
TI 1063.10
SW 1063.50
SW 1063.23
SW 1064.00
SW 1065.47
SW 1063.15
SW 1065.47
SW ???
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145
140
135
130
125
120
115
110
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
FL 12" CMP
ELEV = 1063.30
FL 12" CMP
ELEV = 1059.03
FL 12" CMP
ELEV = 1062.85
FL 18" PIPE
IN=1056.82
OUT=1056.82
ELEV = 1058.32
FL 12" CMP
ELEV = 1058.32
FL 12" CMP
ELEV = 1058.32
FL 12" CMP

MATCH LINE SHEET 18

MATCH LINE SHEET 21

PERIMETER STADIUM WALKWAY EL. 1065.47

PERIMETER EXISTING TURF FIELD EL. ±1053.30

GRAVEL ROAD

N

0 20'

SCALE: 1" = 20'

LEGEND

- EXIST. PROPERTY LINE
- 350 EXIST. GROUND CONTOUR
- 350 PROP. FINISHED CONTOUR
- 930.00 PROP. SPOT ELEVATION
- PROP. STORM SEWER
- PROP. CURB INLET
- PROP. GRATE INLET

SPOT ELEVATION KEY

TC	CONCRETE SURFACE
TP	TOP OF PAVEMENT
SW	TOP OF SIDEWALK
TW	TOP OF WALL
BW	BOTTOM OF WALL
HP	HIGH POINT
TI	TOP OF INLET
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
EX	EXISTING GRADE

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED GRADING PLAN

MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-3040 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 20
OF 77

F:\LTISD OVERALL\PROJECTS\22-050-AUS LTHS 600\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\17 PROPOSED GRADING PLAN.DWG, 6/26/2025, DAVID JOHNSTON

MATCH LINE SHEET 19

MATCH LINE SHEET 20

EXISTING FFE
EL. 1053.83

PERIMETER EXISTING
TURF FIELD EL. ±1053.30

ADA RAMP LANDING TO BE
LOWER THAN CONCOURSE

MATCH
EXISTING

ADJUST ALL UTILITY
LIDS TO PROPOSED
SURFACE ELEVATIONS

MATCH
EXISTING

MATCH
EXISTING

EXISTING
WQ POND

N

0 20'
SCALE: 1" = 20'

LEGEND

- EXIST. PROPERTY LINE
- EXIST. GROUND CONTOUR
- PROP. FINISHED CONTOUR
- PROP. SPOT ELEVATION
- PROP. STORM SEWER
- PROP. CURB INLET
- PROP. GRATE INLET

SPOT ELEVATION KEY

TC	CONCRETE SURFACE
TP	TOP OF PAVEMENT
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BW	BOTTOM OF WALL
HP	HIGH POINT
TI	TOP OF INLET
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
EX	EXISTING GRADE

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED GRADING PLAN

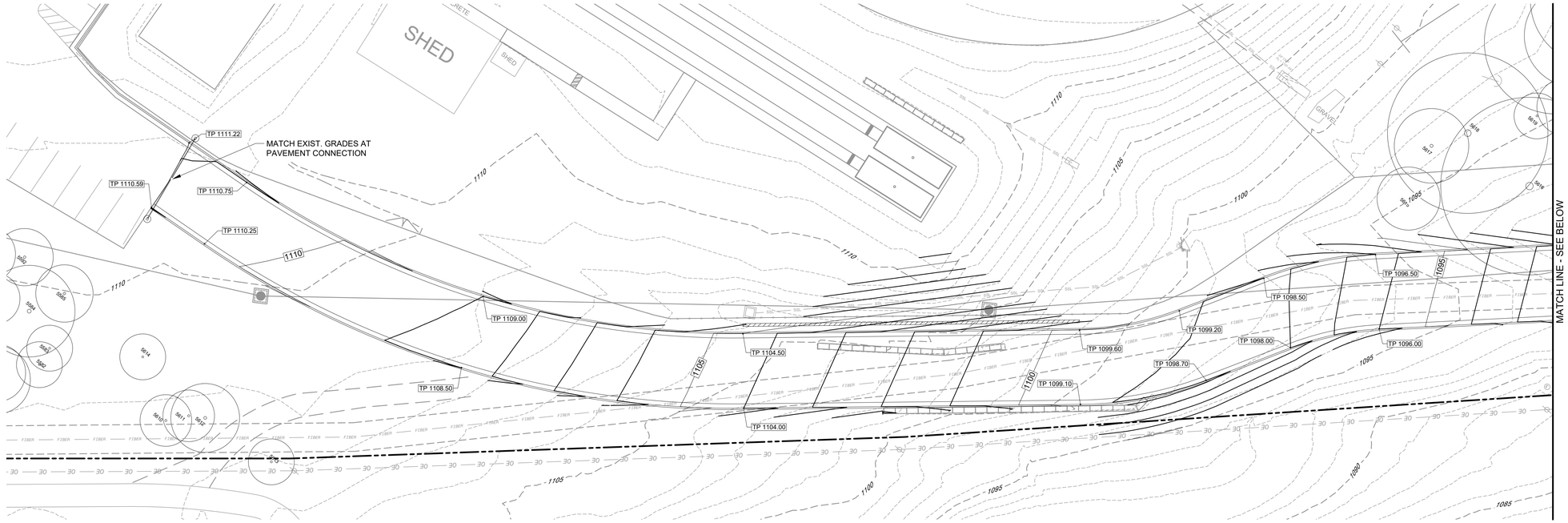
MALONE ★ WHEELER INC.
SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
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Phone: (512) 899-0640 Fax: (512) 899-0655
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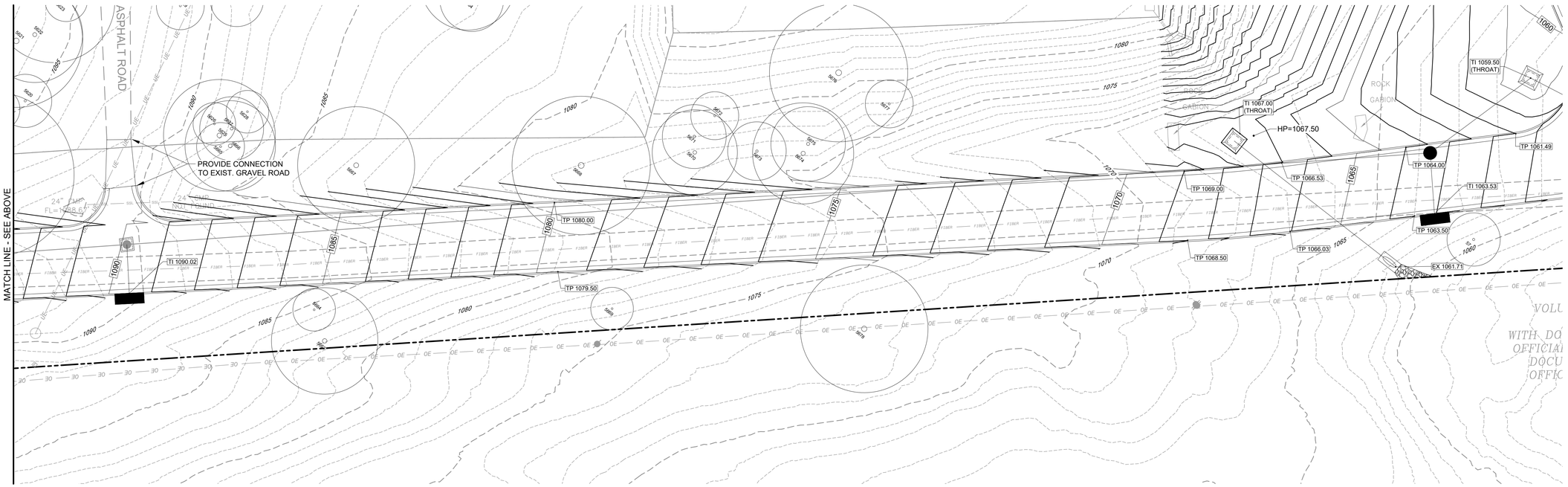
STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 21
OF 77

F:\LTISD_OVERALL\PROJECTS\23-060-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\17 PROPOSED GRADING PLAN.DWG, 6/26/2025, DAVID JOHNSTON





F:\LTISD OVERALL\PROJECTS\23-009-AUS LTHS 0260\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\17 PROPOSED GRADING PLAN.DWG, 6/26/2025, DAVID JOHNSTON

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

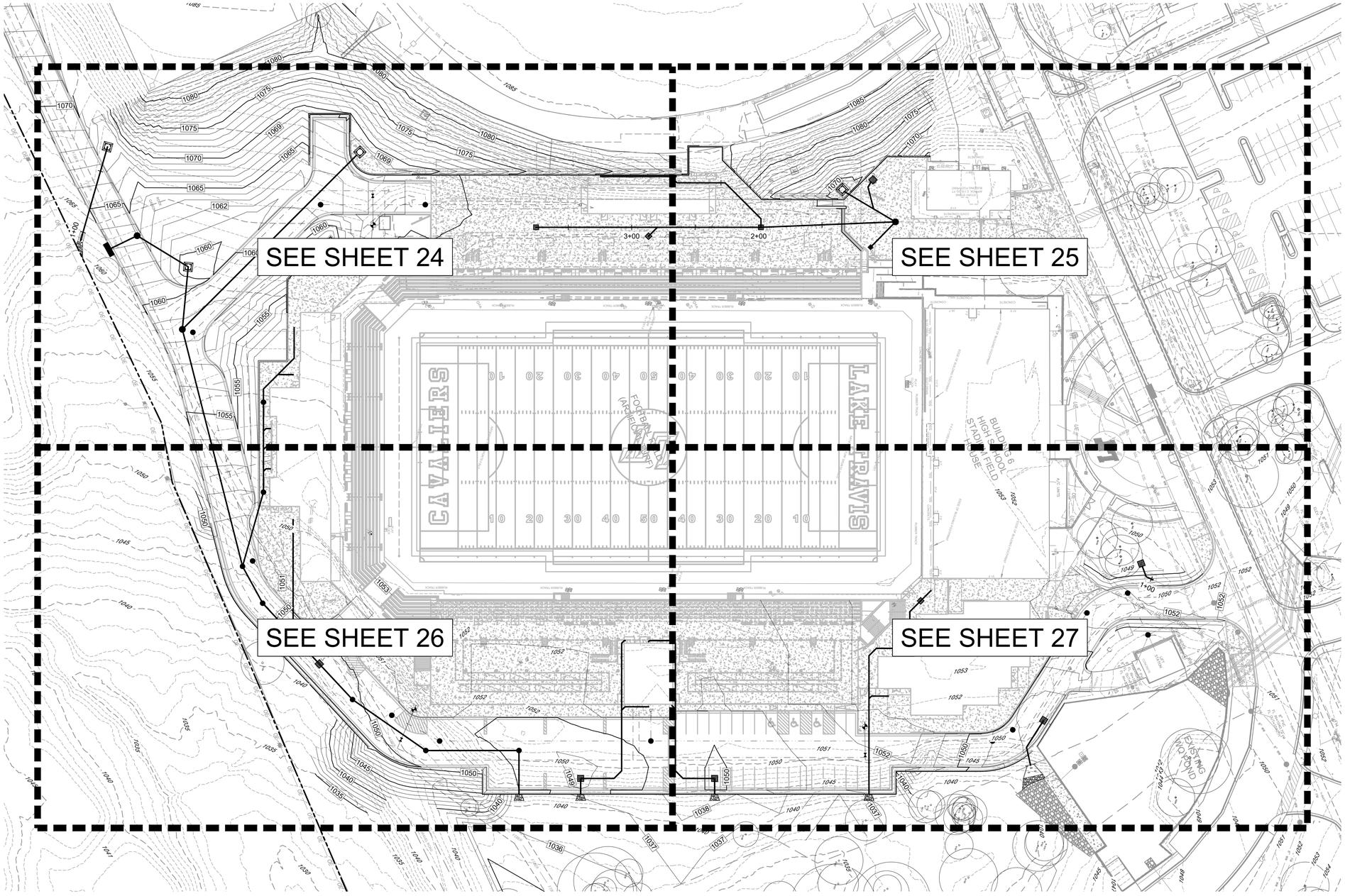
ENLARGED GRADING ACCESS ROAD

MALONE★WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
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STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/27/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 22
OF 77



NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

PROPOSED STORM PLAN

MALONE★WHEELER INC. SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
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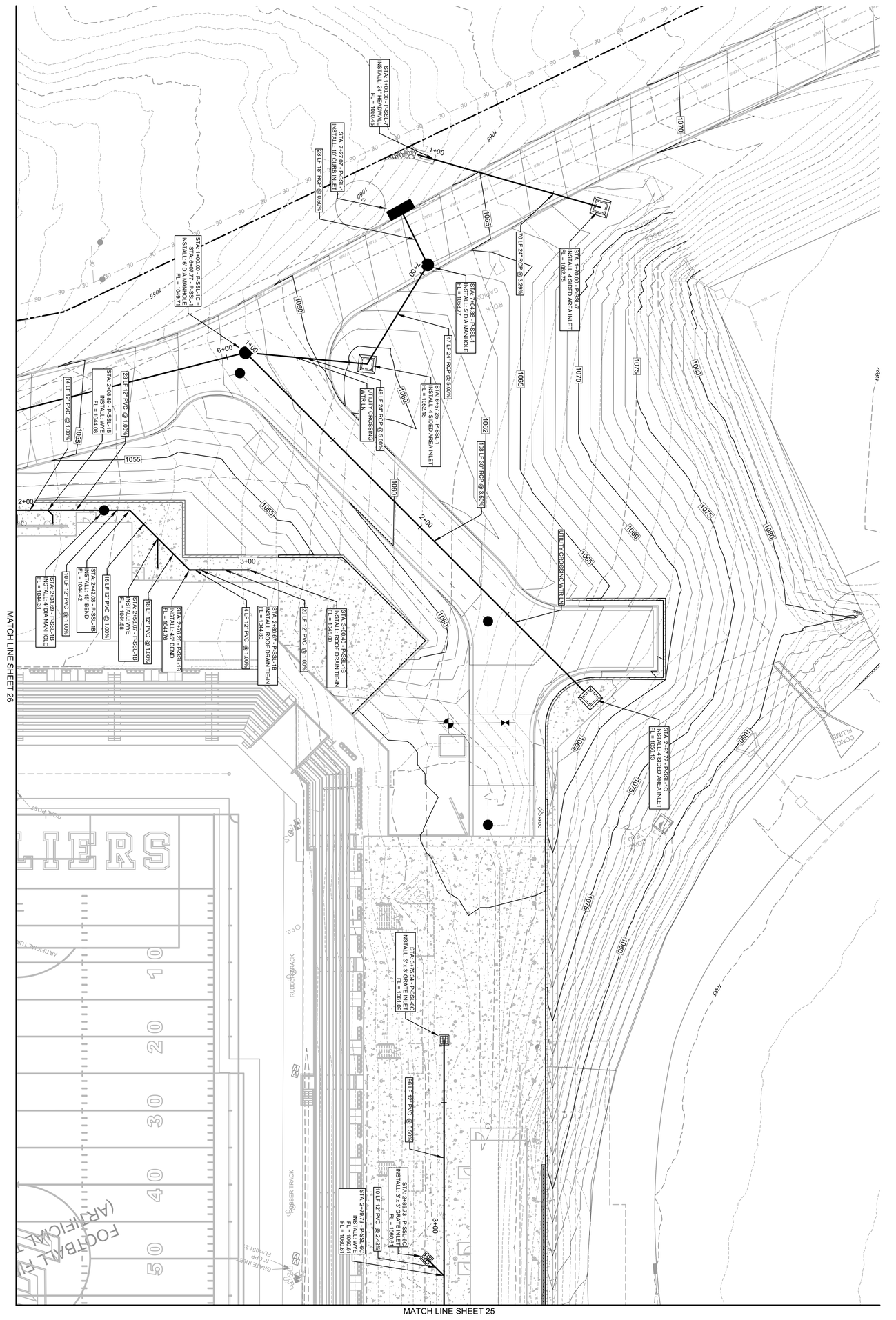
STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 23
OF 77

F:\LTISD OVERALL\PROJECTS\23-009-AUS_LTHS 026\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\23 PROPOSED STORM PLAN.DWG, 6/26/2025, DAVID JOHNSTON

F:\LTISD OVERALL\PROJECTS\23-050-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\23 PROPOSED STORM PLAN.DWG, 6/26/2025, DAVID JOHNSTON



LEGEND
- PROPERTY LINE
- PROP. STORM SEWER
- PROP. GRATE INLET
- PROP. CURB INLET
- PROP. STORM SEWER MANHOLE
- PROP. WATER LINE
- PROP. WATER SERVICE
- PROP. WASTEWATER

SCALE: 1" = 20'

N

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED STORM PLAN

MALONE ★ WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
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Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108724
LICENSED PROFESSIONAL ENGINEER

DESIGNED BY: CM
CHECKED BY: AV
APPROVED BY: JM
DATE: 6/27/2025

SHEET 24 OF 77

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED STORM PLAN

MALONE★WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
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STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER

DESIGN BY :	CM
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DATE :	5/2/2025

SHEET 25
OF 77

P:\LTISD OVERALL\PROJECTS\23-050-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\23 PROPOSED STORM PLAN.DWG, 6/26/2025, DAVID JOHNSTON

MATCH LINE SHEET 24

STA: 1+94.41 - P-SSL-1B
INSTALL: WYE
FL = 1043.94

17 LF 12" PVC @ 1.00%

STA: 1+77.16 - P-SSL-1B
INSTALL: WYE
FL = 1043.77

16 LF 12" PVC @ 1.00%

STA: 1+60.71 - P-SSL-1B
INSTALL: 4' DIA MANHOLE
FL = 1043.10

193 LF 36" RCP @ 5.00%

STA: 1+91.55 - P-SSL-1A
INSTALL: ROOF DRAIN TIE-IN
FL = 1041.19

61 LF 18" RCP
@ 4.16%

17 LF 12" PVC @ 0.50%

UTILITY CROSSING WW LN

20 LF 12" PVC @ 0.50%

55 LF 12" PVC @ 0.50%

STA: 4+15.10 - P-SSL-1 =
STA: 1+00.00 - P-SSL-1B
INSTALL: 6' DIA MANHOLE
FL = 1039.08

33 LF 36" RCP @ 0.50%

STA: 3+81.98 - P-SSL-1
INSTALL: 6' DIA MANHOLE
FL = 1038.91

35 LF 36" RCP @ 0.50%

STA: 3+46.83 - P-SSL-1 =
STA: 1+00.00 - P-SSL-1A
INSTALL: 6' DIA MANHOLE
FL = 1038.74

30 LF 36" RCP @ 0.50%

STA: 3+16.53 - P-SSL-1
INSTALL: 4' X 4' GRATE INLET
FL = 1038.08

38 LF 42" RCP @ 0.50%

STA: 2+78.20 - P-SSL-1
INSTALL: 6' DIA MANHOLE
FL = 1037.89

70 LF 42" RCP @ 0.50%

STA: 2+07.87 - P-SSL-1
INSTALL: 6' DIA MANHOLE
FL = 1037.54

73 LF 42" RCP @ 0.50%

STA: 1+34.50 - P-SSL-1
INSTALL: 6' DIA MANHOLE
FL = 1037.17

UTILITY CROSSING WTR LN

35 LF 42" RCP @ 0.50%

STA: 1+00.00 - P-SSL-1
INSTALL: MITERED OUTFALL

18 LF 12" PVC @ 3.70%

STA: 2+67.70 - P-SSL-3
INSTALL: 45° BEND
FL = 1042.84

1 LF 12" PVC @ 3.70%

STA: 2+68.82 - P-SSL-3
INSTALL: ROOF DRAIN TIE-IN
FL = 1042.88

STA: 2+51.39 - P-SSL-2
INSTALL: ROOF DRAIN TIE-IN
FL = 1041.05

1 LF 12" PVC @ 1.50%

STA: 2+50.68 - P-SSL-2
INSTALL: 45° BEND
FL = 1041.04

3 LF 12" PVC @ 1.50%

STA: 2+47.85 - P-SSL-2
INSTALL: 45° BEND
FL = 1041.00

STA: 1+97.77 - P-SSL-2
INSTALL: ROOF DRAIN TIE-IN
FL = 1042.89

18 LF 12" PVC @ 1.00%

53 LF 12" PVC @ 1.50%

STA: 1+97.77 - P-SSL-2
INSTALL: WYE
FL = 1042.71

4 LF 12" PVC @ 52.30%

STA: 1+95.05 - P-SSL-2
INSTALL: WYE
FL = 1040.20

48 LF 12" PVC @ 1.50%

UTILITY CROSSING WW LN

UTILITY CROSSING WTR LN

STA: 1+47.27 - P-SSL-2
INSTALL: 45° BEND
FL = 1039.49

8 LF 12" PVC @ 1.50%

STA: 1+38.78 - P-SSL-2
INSTALL: 45° BEND
FL = 1039.36

26 LF 12" PVC @ 1.50%

STA: 1+12.50 - P-SSL-2
INSTALL: 4' X 4' GRATE INLET
FL = 1037.47

12 LF 30" RCP @ 0.50%

STA: 1+00.09 - P-SSL-2
INSTALL: TIE TO POND
FL = 1037.40

MATCH LINE SHEET 27

GRAVEL ROAD

RUBBER TRACK

SPORTS FIELD

PLAY DECK

N

0 20'
SCALE: 1" = 20'

LEGEND

- PROPERTY LINE
- PROP. STORM SEWER
- PROP. GRATE INLET
- PROP. CURB INLET
- PROP. STORM SEWER MANHOLE
- PROP. WATER LINE
- PROP. WATER SERVICE
- PROP. WASTEWATER

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED STORM PLAN

MALONE ★ WHEELER INC.
SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0600 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 26
OF 77

F:\LTISD_OVERALL\PROJECTS\23-050-AUS LTHS 620\DRAWINGS\PLANSET\23 PROPOSED STORM PLAN.DWG, 8/26/2025, DAVID JOHNSTON

MATCH LINE SHEET 25

MATCH LINE SHEET 26

STA: 2+89.25 - P-SSL-4
INSTALL: 4' DIA MANHOLE
FL = 1044.29

12 LF 18" RCP @ 5.00%

STA: 2+77.68 - P-SSL-4
INSTALL: 3' x 3' GRATE INLET
FL = 1043.71

12 LF 18" RCP @ 5.00%

STA: 2+65.57 - P-SSL-4
INSTALL: 4' DIA MANHOLE
FL = 1043.11

17 LF 18" RCP @ 5.00%

STA: 2+48.74 - P-SSL-4
INSTALL: 4' DIA MANHOLE
FL = 1042.27

10 LF 18" RCP @ 5.00%

STA: 2+38.27 - P-SSL-4
INSTALL: 3' x 3' GRATE INLET
FL = 1041.74

14 LF 18" RCP @ 5.00%

STA: 2+17.42 - P-SSL-4
INSTALL: 4' DIA MANHOLE
FL = 1039.70

8 LF 30" RCP @ 5.00%

STA: 2+09.23 - P-SSL-4
INSTALL: 4' DIA MANHOLE
FL = 1039.29

7 LF 18" RCP @ 5.00%

STA: 2+31.74 - P-SSL-4
INSTALL: 4' DIA MANHOLE
FL = 1041.42

34 LF 30" RCP @ 5.00%

STA: 2+49.28 - P-SSL-3
INSTALL: 45° BEND
FL = 1042.16

3 LF 12" PVC @ 3.70%

STA: 2+46.45 - P-SSL-3
INSTALL: 45° BEND
FL = 1042.05

52 LF 12" PVC @ 3.70%

STA: 1+94.56 - P-SSL-3
INSTALL: WYE
FL = 1040.13

STA: 1+75.39 - P-SSL-4
INSTALL: WYE
FL = 1037.60

STA: 1+77.39 - P-SSL-4
INSTALL: ROOF DRAIN TIE-IN
FL = 1038.13

11 LF 12" PVC @ 1.00%

STA: 1+77.39 - P-SSL-4
INSTALL: WYE
FL = 1038.02

4 LF 12" PVC @ 0.63%

49 LF 12" PVC @ 0.50%

UTILITY CROSSING WW LN

UTILITY CROSSING WTR LN

STA: 1+45.87 - P-SSL-3
INSTALL: 45° BEND
FL = 1039.89

8 LF 12" PVC @ 0.50%

STA: 1+37.38 - P-SSL-3
INSTALL: 45° BEND
FL = 1039.85

29 LF 12" PVC @ 0.50%

UTILITY CROSSING WW LN

75 LF 30" RCP @ 0.50%

UTILITY CROSSING WTR LN

STA: 1+12.50 - P-SSL-3
INSTALL: 4' X 4' GRATE INLET
FL = 1038.22

13 LF 30" RCP @ 0.50%

STA: 1+00.00 - P-SSL-1
INSTALL: Null Structure
FL = 1038.16

STA: 1+00.00 - P-SSL-4
INSTALL: Null Structure
FL = 1037.22

STA: 1+15.51 - P-SSL-10
INSTALL: 3' x 3' GRATE INLET
FL = 1045.06

11 LF 18" RCP @ 1.00%

STA: 1+04.51 - P-SSL-10
INSTALL: WYE
FL = 1044.95

5 LF 18" RCP @ 1.00%

STA: 1+00.00 - P-SSL-10
INSTALL: EX. INLET
FL = 1044.90

STA: 1+39.63 - P-SSL-5
INSTALL: 4' X 4' GRATE INLET
FL = 1041.53

25 LF 30" RCP @ 1.00%

STA: 1+14.49 - P-SSL-5
INSTALL: WYE
FL = 1041.28

14 LF 30" RCP @ 1.00%

STA: 1+00.00 - P-SSL-5
INSTALL: 30" STANDARD HEADWALL
FL = 1041.14

EXISTING WQ POND

LIFT STATION

CONCRETE

ASPHALT

RUBBER TRACK

CONCRETE

EDGE OF BUILDING FOOTPRINT

EDGE OF BUILDING FOOTPRINT

A/C UNITS

91.5'

40 30 20 10

ELEV. = 1041.45'

ELEV. = 1041.37'

N

0 20'
SCALE: 1" = 20'

LEGEND

- PROPERTY LINE
- PROP. STORM SEWER
- PROP. GRATE INLET
- PROP. CURB INLET
- PROP. STORM SEWER MANHOLE
- PROP. WATER LINE
- PROP. WATER SERVICE
- PROP. WASTEWATER

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED STORM PLAN

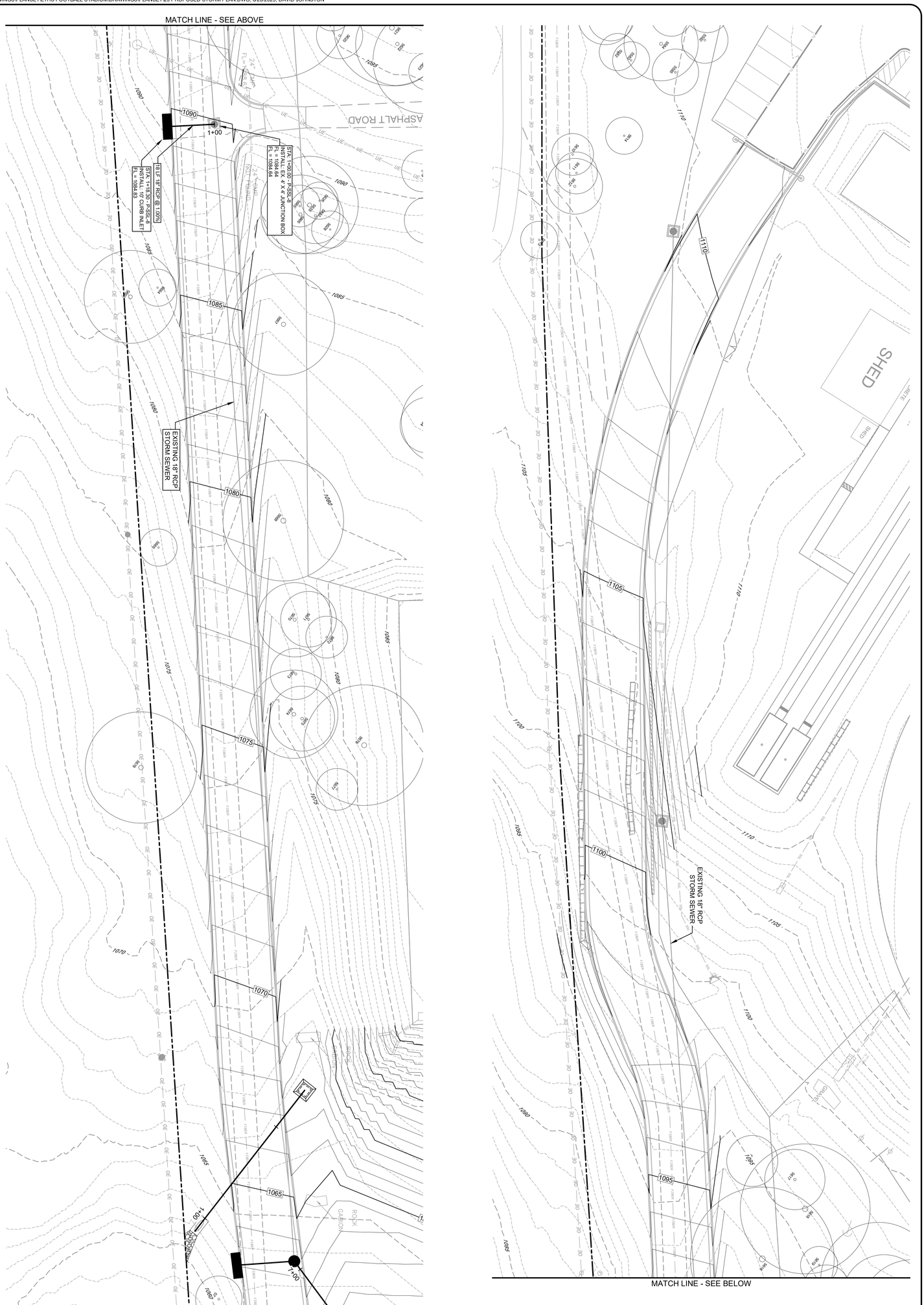
MALONE★WHEELER INC.
SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0600 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
106734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	5/2/2025

SHEET 27
OF 77

P:\LTISD OVERALL\PROJECTS\22-050-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\LTHS PROPOSED STORM PLAN.DWG, 6/26/2025, DAVID JOHNSTON



SHEET 28 OF 77

DESIGN BY: CM
CHECKED BY: AV
APPROVED BY: JM
DATE: 6/27/2025

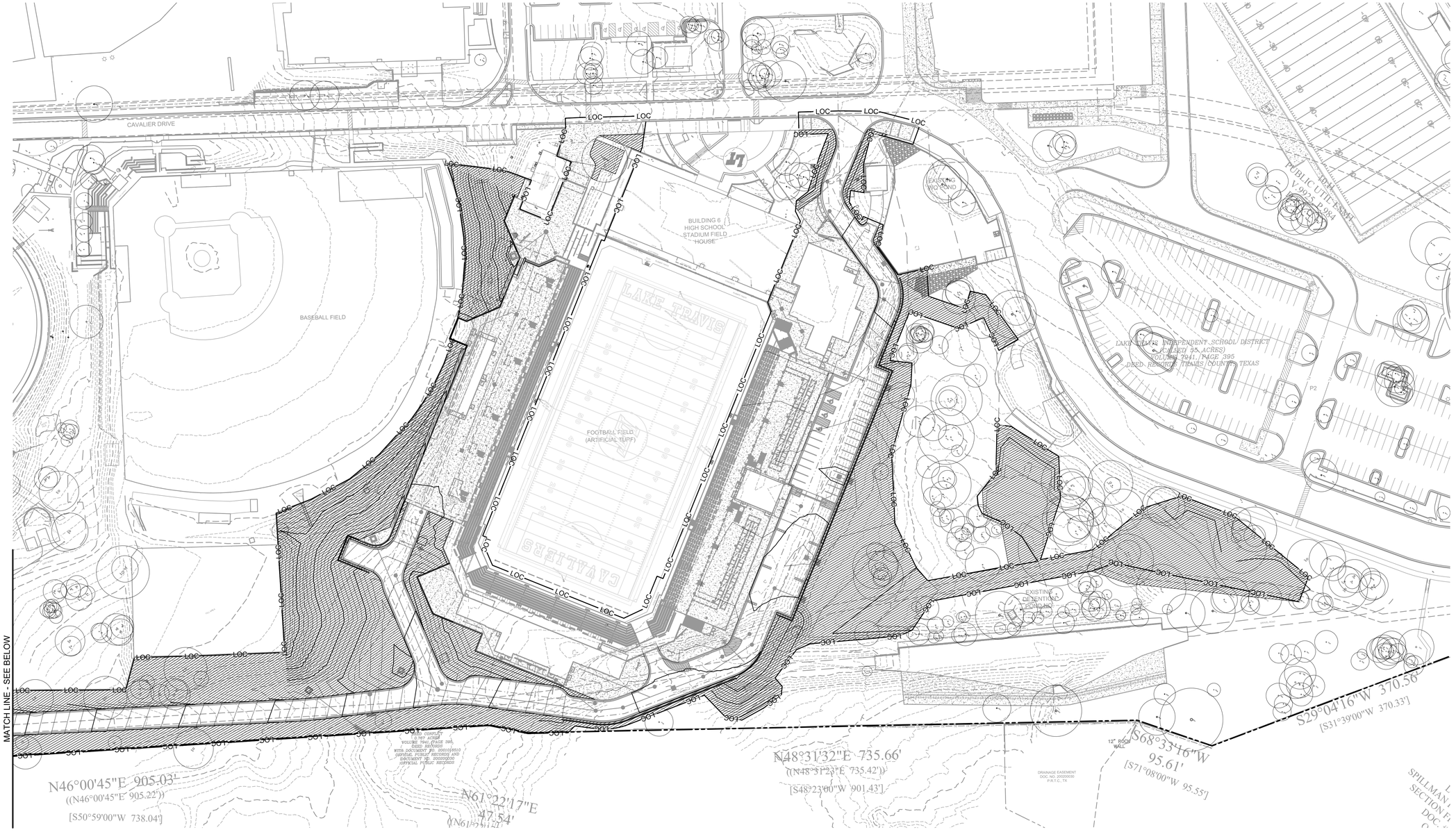
STATE OF TEXAS
JESSE B. MALONE
108724
LICENSED
PROFESSIONAL ENGINEER

MALONE ★ WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

ENLARGED STORM PLAN

NO.	DATE	REVISION	BY



NOTES:

1. NO CONSTRUCTION EQUIPMENT OR VEHICLE ALLOWED OUTSIDE LIMITS OF CONSTRUCTION (LOC).
2. SLOPE MATTING ON ALL SLOPES 3:1 OR GREATER. CLASS 1, TYPE B PER LCRA TECHNICAL MANUAL.
3. SEE GENERAL NOTES (SHEET 3) FOR SEED, SOIL, AND SEASONAL PLANTING NOTES FOR FINAL STABILIZATION
4. INITIATE PERMANENT STABILIZATIONIMMEDIATELY ONCE WORK HAS CEASED AND FINAL GRADE HAS BEEN ACHIEVED IN ANY GIVEN AREA.
5. THE FINAL STABILIZATION/REVEGETATION EFFORTS SHALL BE IN ACCORDANCE WITH THE APPROVED RESTORATION PLAN DETAILS AND SPECIFICATIONS.
6. ALL 3:1 SLOPES OR STEEPER REQUIRE SOIL RETENTION BLANKET (SRB).
7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE WATERING/IRRIGATION TO ACHIEVE THE PERMANENT STABILIZATION REQUIREMENTS IN ALL DISTURBED/REVEGETATED AREAS BEFORE FINAL ACCEPTANCE FOR THIS PROJECT CAN BE OBTAINED.
8. ALL COMMON AREAS INCLUDING PWQC STRUCTURES MUST BE PERMANENTLY STABILIZED PER; JURISDICTIONAL TECHNICAL SPECIFICATIONS BEFORE A CONDITIONAL ACCEPTANCE CAN BE ISSUED.
9. ALL DISTURBED/BARE AREAS WILL REQUIRE PERMANENT STABILIZATION BEFORE FINAL ACCEPTANCE CAN BE ACHIEVED. AVOID DISTURBING AREAS OF THE PROJECT THAT ARE NOT NECESSARY FOR CONSTRUCTION.
10. ANY DISTURBED AREA(S) NOT INDICTED TO BE RESTORED ON THE RESTORATION PLAN REQUIRES THE SAME EFFORTS AS THOSE INDICATED.
11. ALL DISTURBED AREAS MUST MEET THE REQUIREMENT FOR PERMANENT STABILIZATION.
12. THE NOTICE OF TERMINATION (NOT) FOR THIS PROJECT SHALL NOT BE SUBMITTED UNTIL THE TRAVIS COUNTY ENVIRONMENTAL INSPECTOR APPROVES CLEARANCE.
13. SEE GENERAL NOTES FOR SEED AND SOIL SPECIFICATIONS AND SEASONAL PLANTING FOR FINAL STABILIZATION REQUIREMENTS.

N

0 60'
SCALE: 1" = 60'

LEGEND

- EXIST. PROPERTY LINE
- LOC — LIMIT OF CONSTRUCTION
- PROP. HYDROMULCH
- 10 — TREE TO REMAIN
- 72 — TREE TO BE REMOVED

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

REVEGETATION PLAN

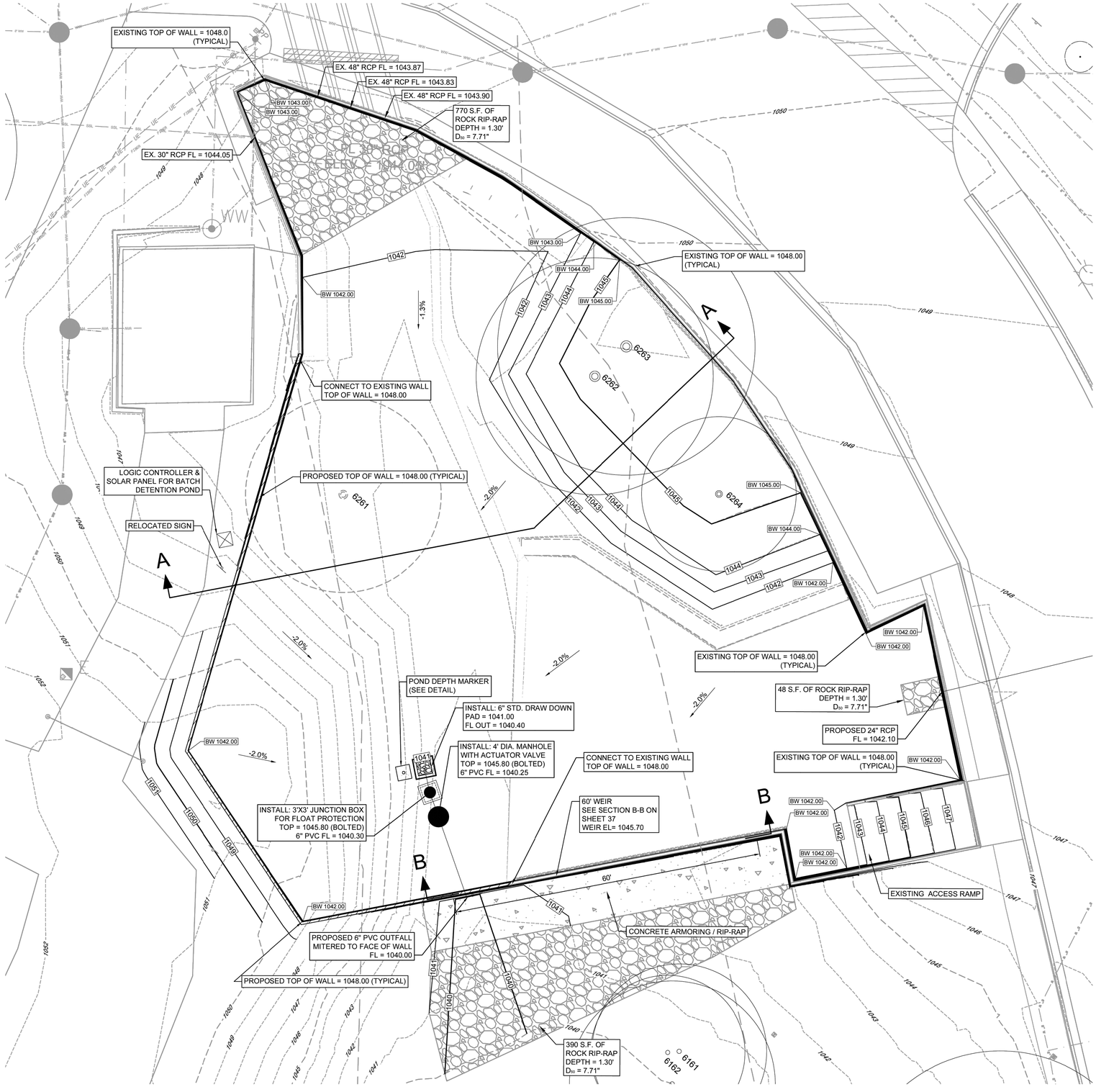
MALONE★WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899.0401 Fax: (512) 899.0655
Firm Registration No. F-786

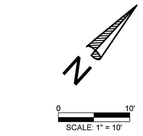
STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY :	CM
CHECKED BY :	AV
APPROVED BY :	JM
DATE :	6/17/2025

SHEET 36
OF 77

P:\LTISD OVERALL\PROJECTS\23-050-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM REVEGETATION PLAN.DWG, 6/20/2025, DAVID JOHNSTON





LEGEND

- PROPERTY BOUNDARY
- EXIST. GROUND CONTOUR
- 940 PROP. FINISHED CONTOUR
- FG 100.00 PROP. SPOT ELEVATION
- PROP. STORM SEWER
- PROP. STORM SEWER MANHOLE

FOR INFORMATIONAL PURPOSES ONLY. NO CONSTRUCTION PROPOSED FOR PONDS.

WQ. POND 1 VOLUME

CONTOUR	AREA (SF)	AVERAGE AREA (SF)	INCREMENTAL STORAGE (CF)	CUMULATIVE STORAGE (CF)
1041	0	0	0	0
1042	10,733	5,366.50	5,366.50	5,366.50
1043	12,574	11,653.50	11,653.50	17,020.00
1044	13,057	12,815.50	12,815.50	29,835.50
1045	13,899	13,478.00	13,478.00	43,313.50
1045.7	***14,785***	***14,342.10***	***10,039.47***	***53,352.97***
1046	15,165	14,975.10	4,492.53	57,845.50
1047	15,293	15,229.00	15,229.00	73,074.50

TRAVIS COUNTY INSPECTION NOTE:

CONTACT POSTINSPECTION@TRAVISCOUNTYTX.GOV TO SCHEDULE THE FOLLOWING MILESTONE INSPECTION(S) FOR THE WATER QUALITY STRUCTURES WITH AT LEAST A 48-HOUR NOTICE, IF APPLICABLE:

- BATCH DETENTION FLOAT SENSOR/ACTUATED VALVE TESTING FOR WATER QUALITY POND 1.

- COMPLETION OF CONSTRUCTION OF WATER QUALITY POND 1.

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH

WATER QUALITY POND 1 PLAN

MALONE★WHEELER INC. SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-3001 Fax: (512) 899-0655
Firm Registration No. F-786

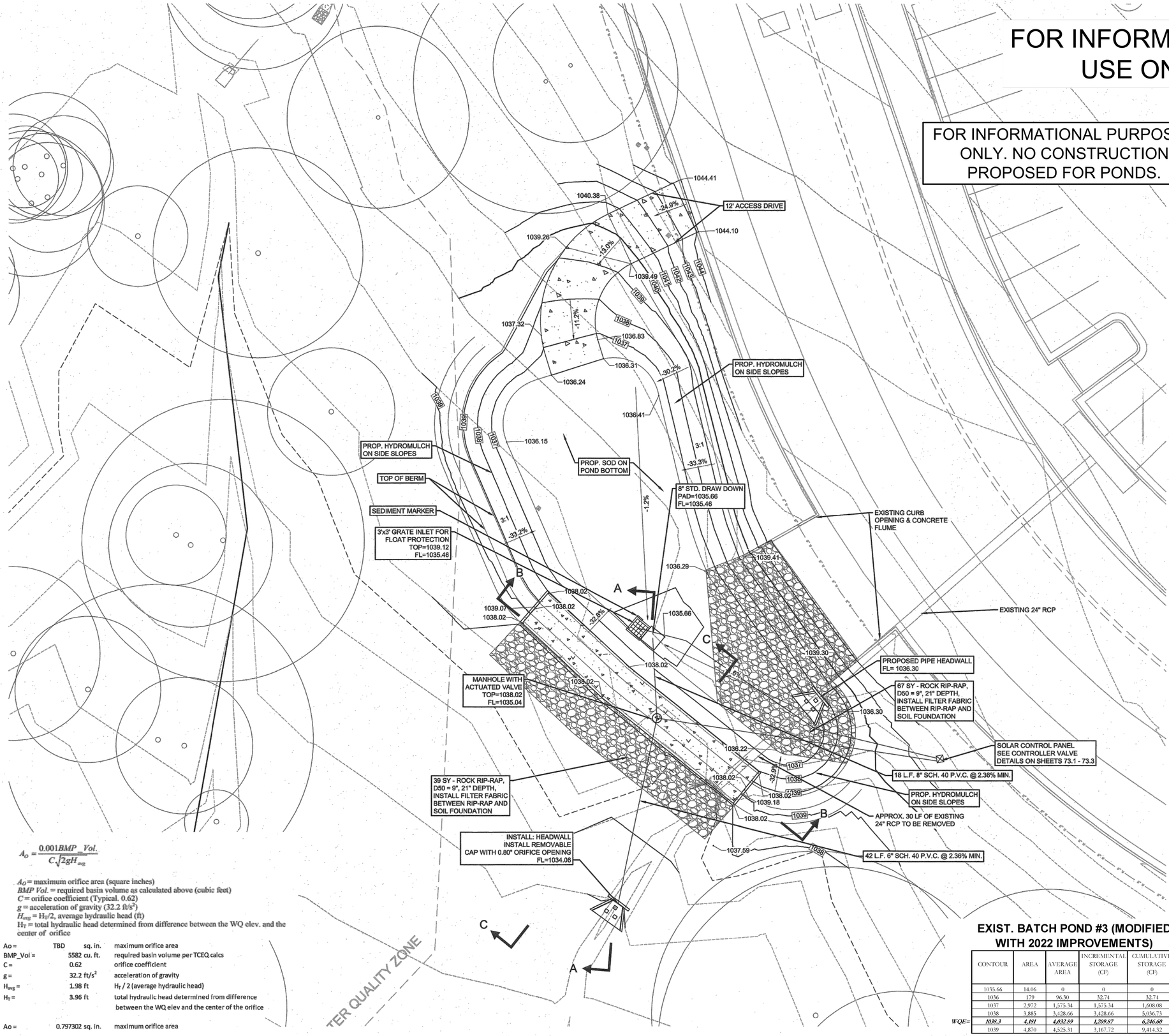
STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED PROFESSIONAL ENGINEER
4/11/2024

DESIGN BY :	SGC
CHECKED BY :	SGC
APPROVED BY :	JBM
DATE :	4/5/2024

F:\LTISD OVERALL\PROJECTS\22-105-AUS LTISD HS 2023 PRKNG\LOT\DRAWINGS\PLANSET\40 WATER QUALITY POND 1 SECTIONS & DETAILS.DWG, 4/11/2024, JACKIE KEYMAN

FOR INFORMATIONAL USE ONLY

FOR INFORMATIONAL PURPOSES ONLY. NO CONSTRUCTION PROPOSED FOR PONDS.



N

0 10'
SCALE: 1" = 10'

LEGEND

- PROPERTY BOUNDARY
- PLAT BOUNDARY
- ROCK BERM - PERMANENT
- PROPOSED SLOPE MATTING
- PROPOSED ROCK RIP-RAP
- PROPOSED NVFS
- PROPOSED PVC PIPE
- PROP. PERFORATED PVC PIPE
- 930.00 PROPOSED SPOT ELEVATION
- 997 EXISTING GROUND CONTOUR
- 350 PROPOSED FINISHED CONTOUR
- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- DRIP FIELDS

NOTES:
1. PRIOR TO SOLAR CONTROL PANEL INSTALLATION, CONTRACTOR IS TO MARK LOCATION AND CONTACT ENGINEER TO FIELD VERIFY.
2. SEE SHEET 86 FOR WATER QUALITY CALCULATIONS.

BATCH POND WEIR CALCULATIONS

100yr.

BROAD-CRESTED RECTANGULAR WEIR:

$$Q = C * L * H^{3/2}$$

WHERE:
- Q= WEIR DISCHARGE (cfs)
- C= WEIR COEFFICIENT
- L= HORIZ. LENGTH IN FEET
- H= HEAD OVER WEIR IN FEET

GIVEN:
- Q100= 84.84
- C= 2.7
- H= 0.5
- L= 60.75

CALCULATIONS:

SOLVE FOR LENGTH

$$L = \frac{84.84}{2.7 * 0.5^{3/2}} = \frac{84.84}{0.954594} = \mathbf{88.88}$$

SOLVE FOR HEAD

$$H = \left(\frac{84.84}{2.7 * 60.75}\right)^{2/3} = \left(\frac{84.84}{164.025}\right)^{2/3} = \left(0.517238\right)^{2/3} = \mathbf{0.6444}$$

USE 60.75' WEIR AT 0.64' OF HEAD

0.6400

BATCH POND WEIR CALCULATIONS

25yr.

BROAD-CRESTED RECTANGULAR WEIR:

$$Q = C * L * H^{3/2}$$

WHERE:
- Q= WEIR DISCHARGE (cfs)
- C= WEIR COEFFICIENT
- L= HORIZ. LENGTH IN FEET
- H= HEAD OVER WEIR IN FEET

GIVEN:
- Q100= 62.73
- C= 2.7
- H= 0.5
- L= 60.75

CALCULATIONS:

SOLVE FOR LENGTH

$$L = \frac{62.73}{2.7 * 0.5^{3/2}} = \frac{62.73}{0.954594} = \mathbf{65.71}$$

SOLVE FOR HEAD

$$H = \left(\frac{62.73}{2.7 * 60.75}\right)^{2/3} = \left(\frac{62.73}{164.025}\right)^{2/3} = \left(0.382442\right)^{2/3} = \mathbf{0.5269}$$

USE 60.75' WEIR AT 0.53' OF HEAD

0.5300

$$A_O = \frac{0.001 BMP_Vol.}{C\sqrt{2gH_{avg}}}$$

A_O = maximum orifice area (square inches)
$BMP\ Vol.$ = required basin volume as calculated above (cubic feet)
C = orifice coefficient (Typical. 0.62)
g = acceleration of gravity (32.2 ft/s^2)
$H_{avg} = H_T/2$, average hydraulic head (ft)
H_T = total hydraulic head determined from difference between the WQ elev. and the center of orifice

Ao =	TBD	sq. in.	maximum orifice area
BMP_Vol =	5582	cu. ft.	required basin volume per TCEQ calcs
C =	0.62		orifice coefficient
g =	32.2	ft/s^2	acceleration of gravity
H_{avg} =	1.98	ft	H_T / 2 (average hydraulic head)
H_T =	3.96	ft	total hydraulic head determined from difference between the WQ elev and the center of the orifice
Ao =	0.797302	sq. in.	maximum orifice area

EXIST. BATCH POND #3 (MODIFIED WITH 2022 IMPROVEMENTS)

CONTOUR	AREA	AVERAGE AREA	INCREMENTAL STORAGE (CF)	CUMULATIVE STORAGE (CF)
1035.66	14.06	0	0	0
1036	179	96.30	32.74	32.74
1037	2,972	1,575.34	1,575.34	1,608.08
1038	3,885	3,428.66	3,428.66	5,036.73
1038.3	***4,181***	***4,032.89***	***1,209.87***	***6,246.60***
1039	4,870	4,525.31	3,167.72	9,414.32

WQE=

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2019 IMPROVEMENTS
3324 RANCH RD 620 SOUTH

EXISTING WQ POND 3 (1 OF 2)

MALONE ★ WHEELER INC. 1995 SINCE
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED PROFESSIONAL ENGINEER
6/28/19

DESIGN BY :	SGC, TME, JV
CHECKED BY :	JBM
APPROVED BY :	JBM
DATE :	6/21/2019

SHEET 75 OF 134

F:\LTISD Overall\Projects\19-034-AUS LTISD HS 2020 Improvements\Drawings\Plansets\41 EXISTING POND 2.dwg, 4/1/2022 3:41:03 PM, SCOTT

F:\LTISD_OVERALL\PROJECTS\18-002 LTISD HS 2019\DRAWINGS\PLANSETS\WEIR & BERM MODIFICATION DETAILS.DWG, 6/28/2019, JOAQUIN VILLARREAL

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: LTHS -Cavalier Stadium Renovations
Date Prepared: 6/1/2025

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

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

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

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

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

County =	Travis		
Total project area included in plan * =	124.44	acres	
Predevelopment impervious area within the limits of the plan * =	23.82	acres	Previously Approved CZP (25.26ac) - Stadium Project Proposed (1.64ac)
Total post-development impervious area within the limits of the plan* =	47.68	acres	Previously Approved CZP (46.04ac) + Stadium Project Proposed (1.64ac)
Total post-development impervious cover fraction * =	0.38		
P =	32	inches	
$L_{M\ TOTAL\ PROJECT}$ =	20942	lbs.	

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

Number of drainage basins / outfalls areas leaving the plan area = 3

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area =	73.82	acres	WQ:1A & WQ:1B
Predevelopment impervious area within drainage basin/outfall area =	14.22	acres	Previously Approved CZP (15.86ac) - Stadium Project Proposed (1.64ac)
Post-development impervious area within drainage basin/outfall area =	32.53	acres	Previously Approved CZP (30.89ac) + Stadium Project Proposed (1.64ac)
Post-development impervious fraction within drainage basin/outfall area =	0.44		
$L_{M\ THIS\ BASIN}$ =	15937	lbs.	

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Detention
Removal efficiency = 91 percent

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

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

where:
A_C = Total On-Site drainage area in the BMP catchment 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 =	73.82	acres
A_I =	32.53	acres
A_P =	41.29	acres
L_R =	33425	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 18492 lbs.

F = 0.55

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 =	0.49	inches
Post Development Runoff Coefficient =	0.33	
On-site Water Quality Volume =	42628	cubic feet

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

Off-site area draining to BMP =	4.82	acres
Off-site Impervious cover draining to BMP =	0.88	acres
Impervious fraction of off-site area =	0.18	
Off-site Runoff Coefficient =	0.19	
Off-site Water Quality Volume =	1614	cubic feet
Storage for Sediment =	8848	
Total Capture Volume (required water quality volume(s) x 1.20) =	53090	cubic feet

8. Batch Detention Basin System Designed as Required in RG-348 Pages 3-46 to 3-51

Required Water Quality Volume for batch detention basin = 53090 cubic feet

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: LTHS -Cavalier Stadium Renovations
Date Prepared: 6/1/2025

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

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

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

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

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

County =	Travis		
Total project area included in plan * =	124.44	acres	
Predevelopment impervious area within the limits of the plan * =	23.82	acres	
Total post-development impervious area within the limits of the plan* =	46.04	acres	
Total post-development impervious cover fraction * =	0.37		
P =	32	inches	
$L_{M\ TOTAL\ PROJECT}$ =	19514	lbs.	

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

Number of drainage basins / outfalls areas leaving the plan area = 3

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

Drainage Basin/Outfall Area No. = 2

Total drainage basin/outfall area =	4.92	acres
Predevelopment impervious area within drainage basin/outfall area =	2.78	acres
Post-development impervious area within drainage basin/outfall area =	3.02	acres
Post-development impervious fraction within drainage basin/outfall area =	0.61	
$L_{M\ THIS\ BASIN}$ =	209	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Sand Filter Alternative media (biofiltration) proposed to comply with LCRA HLWO
Removal efficiency = 89 percent

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

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

where:
A_C = Total On-Site drainage area in the BMP catchment 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 =	4.92	acres
A_I =	3.02	acres
A_P =	1.90	acres
L_R =	3005	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 2200 lbs.

F = 0.73

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 =	0.86	inches
Post Development Runoff Coefficient =	0.43	
On-site Water Quality Volume =	6613	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 =	1323	
Total Capture Volume (required water quality volume(s) x 1.20) =	7935	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 = 7935 cubic feet

Minimum filter basin area = 367 square feet

Maximum sedimentation basin area = 3306 square feet For minimum water depth of 2 feet
Minimum sedimentation basin area = 827 square feet For maximum water depth of 8 feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = 7935 cubic feet

Minimum filter basin area = 661 square feet

Maximum sedimentation basin area = 2645 square feet For minimum water depth of 2 feet
Minimum sedimentation basin area = 165 square feet For maximum water depth of 8 feet

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: LTHS -Cavalier Stadium Renovations
Date Prepared: 6/1/2025

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
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1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

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

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

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

County =	Travis		
Total project area included in plan * =	124.44	acres	
Predevelopment impervious area within the limits of the plan * =	23.62	acres	Previously Approved CZP (25.26ac) - Stadium Project Proposed (1.64ac)
Total post-development impervious area within the limits of the plan* =	47.68	acres	Previously Approved CZP (46.04ac) + Stadium Project Proposed (1.64ac)
Total post-development impervious cover fraction * =	0.38		
P =	32	inches	
$L_{M\ TOTAL\ PROJECT}$ =	20942	lbs.	

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

Number of drainage basins / outfalls areas leaving the plan area = 3

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

Drainage Basin/Outfall Area No. = 3

Total drainage basin/outfall area =	9.19	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	4.76	acres
Post-development impervious fraction within drainage basin/outfall area =	0.52	
$L_{M\ THIS\ BASIN}$ =	4145	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Detention
Removal efficiency = 91 percent

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

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

where:
A_C = Total On-Site drainage area in the BMP catchment 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 =	9.19	acres
A_I =	4.76	acres
A_P =	4.43	acres
L_R =	4867	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 2450 lbs.

F = 0.50

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 =	0.42	inches
Post Development Runoff Coefficient =	0.37	
On-site Water Quality Volume =	5176	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 =	1035	
Total Capture Volume (required water quality volume(s) x 1.20) =	6212	cubic feet

8. Batch Detention Basin System Designed as Required in RG-348 Pages 3-46 to 3-51

Required Water Quality Volume for batch detention basin = 6212 cubic feet

P:\LTHS_OVERALL\PROJECT\3\23-000-AUS_LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\37 WATER QUALITY POND 1 PLAN.DWG, 6/26/2025, DAVID JOHNSTON

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
3324 RANCH ROAD 620 SOUTH

TCEQ WATER QUALITY CALCULATIONS

MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0600 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/19/2025

DESIGN BY : SGC
CHECKED BY : AV
APPROVED BY : JBM
DATE : 6/19/2025

SHEET 39
OF 77

EXISTING TOP OF BERM
EL=1043.85
(PERMIT#23-44877)

EXISTING
DETENTION
POND #2

EXISTING 48" CMP WITH
HEADWALL FL=1029.24

EXISTING 320' WEIR
EL=1041.25'

EXISTING TOP OF BERM
EL=1043.85
(PERMIT#23-44877)

N

0 30'
SCALE: 1" = 30'

MODIFIED DETENTION POND 2 VOLUME

CONTOUR	AREA (SF)	AVERAGE AREA (SF)	INCREMENTAL STORAGE (CF)	CUMULATIVE STORAGE (CF)
1,029	50	50	0	0
1,030	303	177	177	177
1,031	5,072	2,688	2,688	2,864
1,032	17,013	11,043	11,043	13,907
1,033	29,099	23,056	23,056	36,963
1,034	42,300	35,700	35,700	72,662
1,035	53,615	47,958	47,958	120,620
1,036	68,415	48,757	146,271	183,234
1,037	86,560	77,488	77,488	260,721
1,038	106,554	96,557	96,557	357,278
1,039	122,276	114,415	114,415	471,693
1,040	136,374	129,325	129,325	601,018
1,041	144,230	140,302	140,302	741,320
1,042	154,979	149,605	149,605	890,925
1,043	162,483	158,731	158,731	1,049,656

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

DETENTION POND MODIFICATIONS

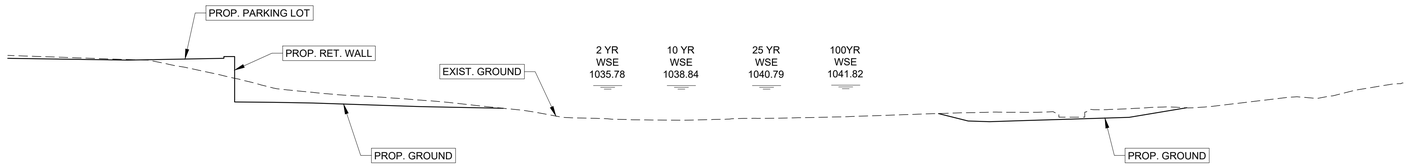
MALONE★WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0401 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY : CM
CHECKED BY : AV
APPROVED BY : JM
DATE : 6/17/2025

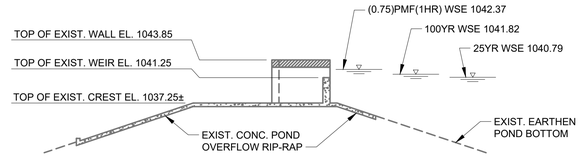
SHEET 40
OF 77

F:\LTISD OVERALL\PROJECT'S\23-600-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\40 DETENTION POND MODIFICATIONS.DWG, 6/26/2025, DAVID JOHNSTON



DETENTION POND 2 SECTION A-A
APPROX. SCALE: 1" = 20'

DETENTION POND #2 STAGE-STORAGE-DISCHARGE			
STORM EVENT	MAX. POND WSE (FT)	PEAK DISCHARGE (CFS)	MAX. POND STORAGE (CU-FT)
2-YEAR	1,035.78	126.77	164,906
10-YEAR	1,038.84	169.80	447,927
25-YEAR	1,040.79	192.26	706,913
100-YEAR	1,041.82	645.33	859,219



EXISTING DETENTION POND 2 SECTION B-B
APPROX. SCALE: 1" = 10'

NOTES:

- ATLAS 14 RAINFALL DATA USED IN DRAINAGE MODELING.

75% PMF Analysis										
DRAIN. AREA NO.	75% OF AREA (acres)	COMP. C (ARC II)	COMP. C (ARC III)	PEAK DISCHARGE PER STORM EVENT						
				1hr (cfs)	2hr (cfs)	3hr (cfs)	6hr (cfs)	12hr (cfs)	24hr (cfs)	48hr (cfs)	72hr (cfs)
P-A1	76.89	87	95	1337.29	998.8	963.65	730.56	516.5	360.35	214.25	154.37
P-A4	1.19	91	97	21.03	15.72	15.23	11.43	8.08	5.68	3.35	2.40

75% PMF - Detention Pond 2		
Storm Event (hr)	Discharge (cfs)	Pond WSE (ft)
1	1356.77	1042.37
2	1012.74	1042.13
3	977.34	1042.10
6	741.22	1041.91
12	524.01	1041.70
24	365.11	1041.54
48	216.42	1041.29
72	150.08	1037.32

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

DETENTION DETAILS AND POND CALCULATIONS

MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
6/17/2025

DESIGN BY : CM
CHECKED BY : AV
APPROVED BY : JM
DATE : 6/17/2025

SHEET 41
OF 77

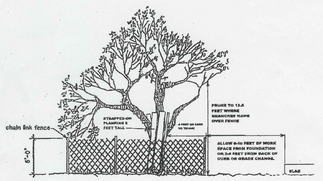
F:\LTISD OVERALL\PROJECTS\23-090-AUS LTHS 620\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\40 DETENTION POND MODIFICATIONS.DWG, 6/26/2025, DAVID JOHNSTON

Development Ordinance – EXHIBIT U
Tree Survey and Protection Specifications

CHAIN LINK FENCE, PRUNING AND PLANKING
(Tree Protection Notes #7, Exhibits K and L)

Exceptions to installing fences at tree drip lines may be permitted in the following cases:

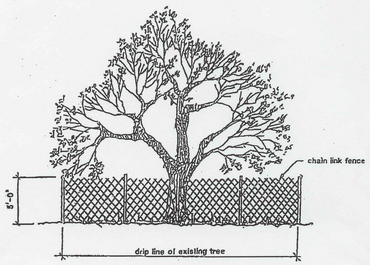
1. Where there is to be an approved grade change, impermeable paving surface, tree well, or other such site development, erect the fence approximately 2 to 4 feet behind the area in question.
2. Where permeable paving is to be installed within a tree's drip line, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately prior to paving installation to minimize root damage).
3. Where trees are close to proposed buildings, erect the fence to allow 6 to 10 feet of work space between the fence and the building.
4. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planking to a height of 8 feet (or to the limits of lower branching) in addition to the reduced fencing provided.
5. All branches that hang over the fence shall be pruned to a minimum height of 13.5 feet or higher if required for equipment clearance.



Source: City of Austin Tree Standards (modified for the City of Lakeway)

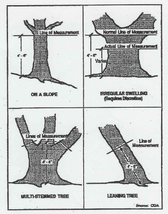
Development Ordinance – EXHIBIT U
Tree Survey and Protection Specifications

CHAIN LINK FENCE TO DRIP LINE
Required for all trees to be preserved during construction
(Tree Protection Notes, Exhibits K and L)



Source: City of Austin

Development Ordinance – EXHIBIT U
Tree Survey and Protection Specifications

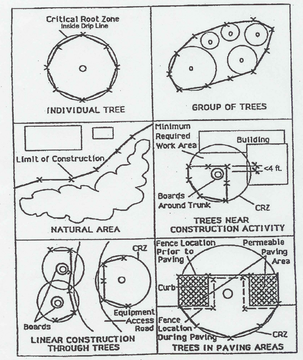


MEASURING TREE DIAMETERS
(Section 10.04, Exhibits B, C, D, F and G)

1. Measure tree diameters at a height of 4-1/2 feet (4 feet 6 inches).
2. If the tree forks at 4-1/2 feet, measure below the swell.
3. Diameter measurement should be accurate to one inch and should be rounded up or down to the nearest inch. (Examples: 15.3" = 15", 15.7" = 16")
4. Trees which are connected at ground level or above are considered to be multi-trunk trees. Look for bark at the base joining the stems.
   a. Measure all trunks larger than 6 inches at a height of 4-1/2 feet and add for total diameter inches.
   b. If none of the trunks is larger than 6 inches when measured at 4-1/2 feet, measure the trunk below the swell beneath the lowest fork.
   c. Example: A Spanish oak with three 8 inch stems and two 4 inch stems would be shown as a "24 inch multi-stem Spanish Oak."
      i. Only the three 8 inch stems would count toward the total.
      ii. Show the total diameter inches in the tree list. Do not show as "8" 8" 8" 8.0" or "8 inch triplo oak", etc.
5. Clusters of many small stems forking from the ground do not need to be measured or shown on the tree survey.
   a. The only exception is the rare Texas Madrone, for which the tree survey should show an approximate height and drip line.

Development Ordinance – EXHIBIT U
Tree Survey and Protection Specifications

STANDARD TREE PROTECTION LOCATIONS
(Tree Protection Notes, Exhibits K and L)



Source: City of Austin Tree Standards (modified for the City of Lakeway)

Development Ordinance – EXHIBIT U
Tree Survey and Protection Specifications

TREE SURVEY SPECIFICATIONS
(Section 10.04, Exhibits B, C, D, F and G)

All General Development Plans, Preliminary Plans, Final Plats, Subdivision Improvement Plans and Site Development Plans require an accurate tree survey which meets the following specifications.

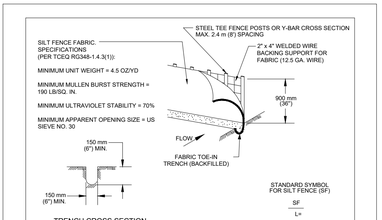
1. The surveyor should locate and measure the following trees according to City of Lakeway standards:
   a. All hardwood trees six (6) inches and larger in diameter.
   b. All trees of any size of the following species which is rare in Lakeway: Texas Madrone (*Arbutus xalapensis var. texana*)
2. All trees should be tagged and numbered on site.
3. The tree survey plat should include a tree list showing tag number, DBH and species.
4. The tree list should show the total diameter inches of multi-trunk trees, with the exception of Texas Madrones.
5. Texas Madrones should be shown in the tree list and on the survey with an approximate height and an actual (not calculated) drip line.
6. The tree survey should show the location of each tree and a calculated drip line drawn for each tree at one foot radius per inch of diameter.
   a. Example: a 10 inch diameter oak would show a calculated drip line with a 10 foot radius.
7. The tree survey plat must contain a surveyor's certification (Exhibit I).
8. Field work for the tree survey shall be performed within one year of submittal to the City.



Texas Madrone: Small multi-stem evergreen tree, usually less than 20 feet tall, rarely 30 feet. Distinguishing feature is smooth bark, rose to deep red in color. Leaves are oval, up to 3-1/2 inches long, leathery and light green. Rare in this area, usually found on slopes sheltered beside Ashe Juniper (cedar) trees.

Photo by Benny J. Simpson, Texas Agricultural Extension Service, Dallas.

CITY OF LAKEWAY
TREE PROTECTION DETAILS
N.T.S.



1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES).

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.

3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

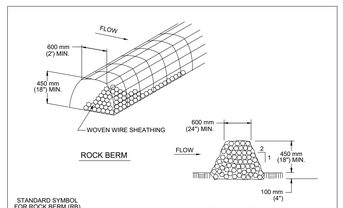
4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE FENCE POST.

5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

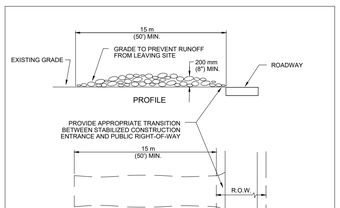
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		MODIFIED SILT FENCE PER TCEQ STANDARDS	
RECORD COPY SIGNED BY MORGAN BYARS	09/01/2011 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1



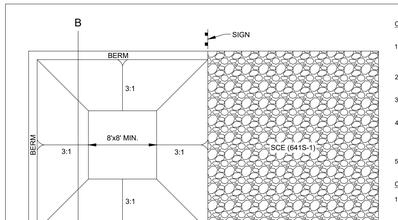
NOTES:
1. USE ONLY OPEN GRADED ROCK 75 to 125 mm (3 to 5") DIAMETER FOR ALL CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 25 mm (1") OPENING AND MINIMUM WIRE DIAMETER OF 12.9 mm (20 GAUGE).
3. THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6"), WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTION PROBLEM.
5. WHEN THE SITE IS COMPLETELY STABILIZED,THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		ROCK BERM	
RECORD COPY SIGNED BY MORGAN BYARS	8/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 639S-1



NOTES:
1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		STABILIZED CONSTRUCTION ENTRANCE	
RECORD COPY SIGNED BY J. PATRICK MURPHY	5/23/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 641S-1



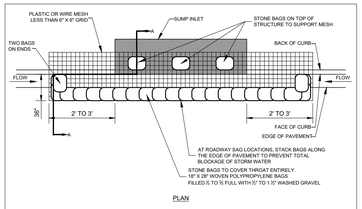
CONCRETE WASHOUT AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR: LOCATIONS OF CONCRETE WASHOUT AREA. (TO BE PLACED A MINIMUM OF 100' FROM DRINAGEWAYS, BODIES OF WATER, AND INLETS.)
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. STABILIZED CONSTRUCTION ENTRANCE (DETAIL 641S-1) IS REQUIRED AT THE ACCESS POINT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

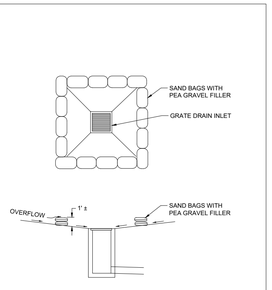
1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.
4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

CONCRETE WASHOUT AREA



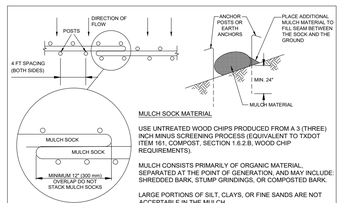
MAINTENANCE NOTES:
1. SEDIMENT ACCUMULATION SHOULD BE REMOVED IF IT EXCEEDS 1/2 HEIGHT OF THE BAGS.
2. REPLACE BAGS AS APPROPRIATE IF HOLES OR EXTREME WEATHERING IS APPARENT.
3. BAGS SHALL BE INTERWOVEN TO ELIMINATE GAPS
4. INSPECT AFTER RAINFALL TO DETERMINE IF SEDIMENT REMOVAL OR REPAIRS ARE NEEDED TO RESTORE PROPER FUNCTION OF THE BMP.

INLET PROTECTION DETAIL
FOR SUMP INLETS
N.T.S.



NOTE:
SANDBAGS FILLED WITH PEA GRAVEL CAN BE USED TO CONSTRUCT A SEDIMENT BARRIER AROUND DRAIN INLETS. THE SANDBAGS SHOULD BE FILLED WITH WASHED PEA GRAVEL AN STACKED TO FORM A CONTINUOUS BARRIER ABOUT 1 FOOT HIGH AROUND THE INLET. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.

BAGGED GRAVEL GRATE INLET PROTECTION DETAIL
N.T.S.



MULCH SOCK MATERIAL

USE UNTREATED WOOD CHIPS PRODUCED FROM A 3 (THREE) INCH MINUS SCREENING PROCESS (EQUIVALENT TO TXDOT ITEM 161, COMPOST, SECTION 1.6.2.B, WOOD CHIP REQUIREMENTS).

MULCH CONSISTS PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, OR COMPOSTED BARK.

LARGE PORTIONS OF SILT, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MULCH.

NOTES:

1. STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600mm (24 inches). IF WOOD POSTS CANNOT ACHIEVE 600mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE.

2. THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OFMULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300mm (12 inches).

3. MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.

4. SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.

5. MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.F.1 FOR A GIVEN SLOPE CATEGORY.

6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		MULCH SOCK	
RECORD COPY SIGNED BY MORGAN BYARS	08/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 648S-1

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

STANDARD DETAILS

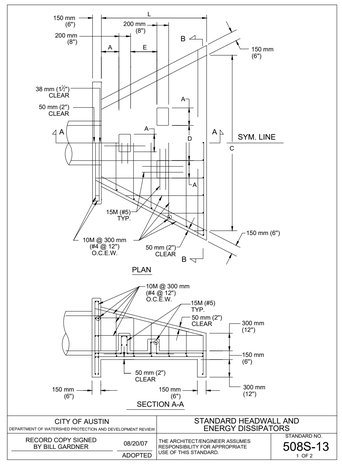
MALONE★WHEELER INC. SINCE 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-3661 Fax: (512) 899-0655
Firm Registration No. F-786

STATE OF TEXAS
JESSE B. MALONE
108734
LICENSED
PROFESSIONAL ENGINEER
5/2/2025

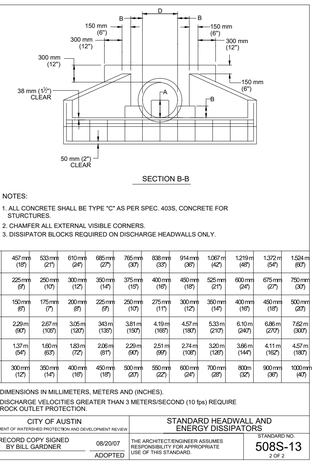
DESIGN BY : CM
CHECKED BY : AV
APPROVED BY : JM
DATE : 5/2/2025

SHEET 42
OF 77

F:\LTISD_OVERALL\PROJECTS\23-050-AUS LTHS 600\DRAWINGS\PLANSET\LTHS FOOTBALL STADIUM\DRAWINGS\PLANSET\42 STANDARD DETAILS.DWG, 6/26/2025, DAVID JOHNSTON



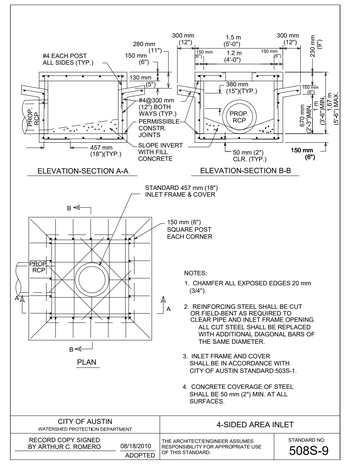
CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW		STANDARD HEADWALL AND ENERGY DISSIPATORS	
RECORD COPY SIGNED BY BILL GARDNER	08/20/07	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-13
ADOPTED			1 OF 2



D	457 mm (18")	533 mm (21")	610 mm (24")	685 mm (27")	765 mm (30")	838 mm (33")	914 mm (36")	1,067 m (42")	1,219 m (48")	1,372 m (54")	1,524 m (60")
A	225 mm (9")	250 mm (10")	300 mm (12")	350 mm (14")	375 mm (15")	400 mm (16")	450 mm (18")	525 mm (21")	600 mm (24")	675 mm (27")	750 mm (30")
B	150 mm (6")	175 mm (7")	200 mm (8")	225 mm (9")	250 mm (10")	275 mm (11")	300 mm (12")	350 mm (14")	400 mm (16")	450 mm (18")	500 mm (20")
C	2.29 m (90")	2.67 m (105")	3.05 m (120")	3.43 m (135")	3.81 m (150")	4.19 m (165")	4.57 m (180")	5.33 m (210")	6.10 m (240")	6.86 m (270")	7.62 m (300")
L	1.37 m (54")	1.60 m (63")	1.83 m (72")	2.06 m (81")	2.29 m (90")	2.51 m (99")	2.74 m (108")	3.20 m (126")	3.66 m (144")	4.11 m (162")	4.57 m (180")
E	300 mm (12")	350 mm (14")	400 mm (16")	450 mm (18")	500 mm (20")	550 mm (22")	600 mm (24")	700 mm (28")	800 m (32")	900 mm (36")	1000 mm (40")

DIMENSIONS IN MILLIMETERS, METERS AND (INCHES).
DISCHARGE VELOCITIES GREATER THAN 3 METERS/SECOND (10 fps) REQUIRE ROCK OUTLET PROTECTION.

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW		STANDARD HEADWALL AND ENERGY DISSIPATORS	
RECORD COPY SIGNED BY BILL GARDNER	08/20/07	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-13
ADOPTED			2 OF 2



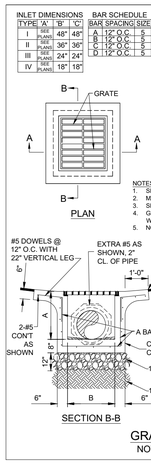
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		4-SIDED AREA INLET	
RECORD COPY SIGNED BY ARTHUR C. ROMERO	08/18/2010	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-9
ADOPTED			

INLET DIMENSIONS			BAR SCHEDULE				INLET CAPACITIES		INLET EQUATION
TYPE	'A'	'B' 'C'	BAR	SPACING	SIZE		TYPE	CFS W/ h = 0.50'	Q = 0.6A(2gh)^.5 CLOGGING FACTOR = 50% 2g = 64.4 h = 0.50'
I	SEE PLANS	48" 48"	A	12" O.C.	5		I	24.19	
II	SEE PLANS	36" 36"	B	12" O.C.	5		II	14.19	
III	SEE PLANS	24" 24"	C	12" O.C.	5		III	3.91	
IV	SEE PLANS	18" 18"	D	12" O.C.	5		IV	2.07	

GRATE OPEN AREA CHART

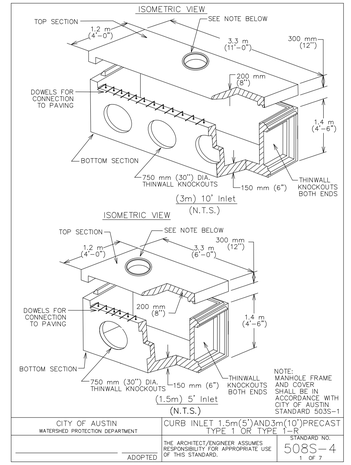
GRATE SIZE	OPEN AREA (SF)	OPEN AREA W/ 50% CLOGGING FACTORS /SF
48" X 48"	14.22	7.11
36" X 36"	8.35	4.17
24" X 24"	2.30	1.15
18" X 18"	1.22	0.61

GRATES ARE QUICK SET BY DALWORTH, CONCRETE PRODUCTS, OR APPROVED EQUAL.



NOTES:
1. SEE PLANS FOR TOP OF INLET AND PIPE ELEVATIONS.
2. MATERIALS AS NOTED OR SPECIFIED.
3. SEE PLANS FOR PIPE SIZE AND ORIENTATIONS
4. GRATE AND FRAME SHALL BE MADE OUT OF GRAY IRON WITH A MINIMUM TENSILE STRENGTH OF 30,000 P.S.I.
5. NO CONSTRUCTION JOINT ALLOWED IN LIPS OF INLET.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 505S-4
ADOPTED			1 OF 7



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 505S-4
ADOPTED			1 OF 7

R-4990

HEAVY DUTY TRENCH

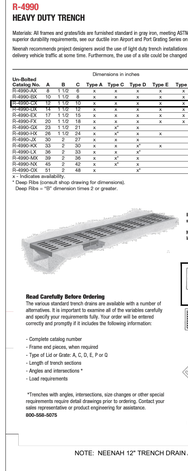
Materials: All frames and grates/lids are furnished standard in gray iron, meeting ASTM-A48 Class 35-B for heavy-duty use. For extra heavy-duty use or superior durability requirements, see our ductile iron Airport and Port Grating Series on page 266.

Neenah recommends project designers avoid the use of light duty trench installations because it is likely that applications will be subjected to heavy delivery vehicle traffic at some time. Furthermore, the use of a slot could be changed to heavy duty use patterns at some unanticipated future date.

Dimensions in inches

Un-Bolted Catalog No.	A	B	C	Type A	Type C	Type D	Type E	Type P	Type Q
R-4990-XX	10	1 1/2	8	x	x	x	x	x	
R-4990-XX	10	1 1/2	8	x	x	x	x	x	
R-4990-QX	12	1 1/2	10	x	x	x	x	x	x
R-4990-UX	14	1 1/2	12	x	x	x	x	x	
R-4990-SX	17	1 1/2	15	x	x	x	x		
R-4990-FX	20	1 1/2	18	x	x	x	x		
R-4990-GX	23	1 1/2	21	x	x*	x			
R-4990-HX	26	1 1/2	24	x	x*	x		x	
R-4990-JX	29	2	27	x	x*	x			
R-4990-KX	32	2	30	x	x*	x	x		
R-4990-LX	36	2	33	x	x*	x*			
R-4990-MX	39	2	36	x	x*	x			
R-4990-NX	45	2	42	x	x*	x			
R-4990-OX	51	2	48	x	x*	x*			

x - Indicates availability.
* Deep Ribs (consult shop drawing for dimensions).
Deep Ribs = "9" dimension times 2 or greater.

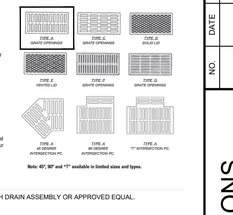


General schematic shown may not apply to all designs. Bar and rib depths, plate thicknesses and seating widths vary on different sizes and styles. If your project has design requirements, contact your sales representative or product engineering.



Illustrating Type C trench. Trench sections are furnished in 24" standard lengths.

Note: In Type A and F grates the slots are perpendicular to the trench run. In Type C and G grates the slots are parallel with the trench run.



Read Carefully Before Ordering

The various standard trench drains are available with a number of alternatives. It is important to examine all of the variations carefully and specify your requirements fully. Your order will be entered correctly and promptly if it includes the following information:

- Complete catalog number
- Frame and pieces, when required
- Type of Lid or Grate: A, C, D, E, F or G
- Length of trench sections
- Angles and intersections *
- Load requirements

*Trenches with angles, intersections, size changes or other special requirements require detail drawings prior to ordering. Contact your sales representative or product engineering for assistance.

800-508-5075

Note: 45°, 60° and "T" available in limited sizes and types.

NOTE: NEENAH 12" TRENCH DRAIN ASSEMBLY OR APPROVED EQUAL.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-4
ADOPTED			2 OF 7

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-4
ADOPTED			3 OF 7

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-4
ADOPTED			4 OF 7

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-4
ADOPTED			5 OF 7

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-4
ADOPTED			6 OF 7

NOTES:
1. ALL CONCRETE SHALL BE CLASS "A" AS PER ITEM 403S.
2. ALL REINFORCING STEEL SHALL BE GRADE 60
3. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
4. IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, PIPES AND MANHOLE FRAME, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
5. PAYMENT FOR INLET AT THE CONTRACT PRICE SHALL INCLUDE THE TRANSITION CURB, IN ACCORDANCE WITH CITY OF AUSTIN STANDARD INLET DESIGN.
6. INVERT OF INLET SHALL BE SLOPED 1:20 WITH FILL CONCRETE BY CONTRACTOR, SHAPED AS "V" SECTION.
7. THIS STANDARD COMPLIES WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS ITEM NO. 508S.
8. WHEN PLACING PRECAST INLETS IN SERIES TO CREATE A 15'-0" OR 20'-0" CURB INLET, THE CONNECTION BETWEEN INLET BOXES SHALL BE SOIL TIGHT AND FULLY CONVEY THE PEAK DESIGN FLOW FROM THE UPSTREAM INLET(S). THE 1:20 INVERT SLOPE DESCRIBED IN NOTE 6 OF THIS DETAIL SHALL EXTEND FROM THE MOST DOWNSTREAM POINT TO THE MOST UPSTREAM OF THE CONNECTED INLET BOXES. AT NO TIME CAN MORE THAN 20-LF OF CURB OPENING BE CONNECTED TO A MAIN STORM DRAIN LINE WITH ONE LATERAL STORM DRAIN CONNECTION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-4
ADOPTED			7 OF 7

CONCRETE DIVERSION CHANNEL AT TOP OF RETAINING WALL

APPROX. SCALE 1"=1'-2"

FILE:T:\SO OVERALL\PROJECTS\23-050-AUS LITHS 6200\DRAWINGS\PLANSET\LITHS FOOTBALL STADIUM\DRAWINGS\PLANSET\142 STANDARD DETAILS.DWG, 6/26/2025, DAVID JOHNSTON

NO.	DATE	REVISION	BY

CAVALIER STADIUM RENOVATIONS
LAKE TRAVIS HIGH SCHOOL - RR620

STANDARD DETAILS

MALONE★WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0600 Fax: (512) 899-0655
Firm Registration No. F-786

DESIGN BY : CM
CHECKED BY : AV
APPROVED BY : JM
DATE : 5/2/2025

SHEET 44
OF 77

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

CONTRIBUTING ZONE PLAN APPLICATION
ATTACHMENT "N"

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

LAKE TRAVIS HIGH SCHOOL

Batch Detention Basin

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

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

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

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

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

Structural Repairs and Replacement. With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching

of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

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.

"Proper" disposal of vegetation trimmings and accumulated silt shall be accomplished following Texas Commission on Environmental Quality and Travis County rules and regulation.

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

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party: Lake Travis Independent School District

Mailing Address: 3322 Ranch Road 620 S

City, State: Austin, Texas **Zip:** 78738

Telephone: 512-533-6000 **Email:**

Robert Winovitch 512-533-5963

Signature of Responsible Party **Date**

BMP Maintenance Plan

Project Name: LAKE TRAVIS HIGH SCHOOL 2024 SCIENCE ADDITION
Project Location: 3324 RR 620 S, Austin, TX 78738
Proposed BMPs: Biofiltration Pond & Natural Vegetative Filter Strips

BMP Maintenance Requirements

The owner or subsequent owner shall bear all expenses for the operation and maintenance of these permanent Best Management Practices (BMP) including but not limited to all general maintenance activities needed to keep this system in proper operation condition. If this system is abused or not maintained, then it may contribute to malfunction of the storm water system. All designed BMP areas shall remain free of construction, development, and subsequent owner

Detailed Inspections and General Maintenance

Detailed BMP inspections should occur at least twice annually. At least one of these inspections should be during or immediately following a runoff producing event. Detailed inspections should be performed by an engineer or other stormwater treatment professional. Any deficiencies identified during an inspection should be repaired immediately.

Maintenance operations may be required as a result of deficiencies identified during a site inspection. However, general site maintenance should be performed on a regular basis, regardless of the timing of more detailed inspections. Site maintenance should be performed as required to maintain site aesthetics, vegetation, BMP access and debris removal. At a minimum, site maintenance should be performed twice annually.

General Site Maintenance

(1) Identify, replant, and restore eroded areas. Add a level spreader, energy dissipation, or other repairs as required to ensure that erosion is not repeated.

(2) Identify areas that do not have acceptable vegetated covers (80% or higher for most BMPs). Reseed, add soil, and irrigate as required to ensure that coverage requirements are met.

(3) Mow sites twice annually and as required to keep grass height under 18 inches. Additional mowing may be performed for site aesthetics. Export clippings from site to prevent release of nutrients from decaying plant matter. Remove any woody growth, especially from embankments, berms, and swales. For swales, grass should not be regularly mowed below four inches.

(4) Use non-chemical methods for maintaining health of vegetation. Pesticides, herbicides, or fertilizers should only be used as a last option, and then as minimally as possible. Fertilizer should rarely be required because runoff will typically contain sufficient nutrient loads.

(5) Irrigation may be required in order to maintain acceptable levels of vegetated coverage, especially for engineered vegetated strips.

(6) Never deposit grass clippings, brush, or other debris in BMPs or buffers.

(7) Prevent over-compaction of BMP components that rely partially or wholly on infiltration (vegetation strips, bioretention bed, infiltration trenches and basins). Mowing and other maintenance should be performed with hand equipment or a light-weight lawn tractor.

(8) Remove any built-up sediment and debris, especially along uphill edges, berms, swales, and level spreaders; and around BMP inlets and outlets.

(9) Identify any other problems. A detailed inspection may be required.

Inspection and Maintenance of Water Quality Basin BMPs:

Requirements for ALL water quality basins:

(1) Have sediment removed from forebays and water quality basins whenever it reaches 10% of volume, or if it impedes flow through the BMP resulting in standing water or decreased performance, or if there are signs of sediment erosion and re-suspension. At a minimum, remove sediment from the sediment forebay every 7-10 years, and from the primary basin every 15 years.

(2) Have sediment removed from top of bioretention beds, whenever and wherever it exceeds 1" in depth, or whenever design drawdown time is exceeded.

(3) Remove sediment from inlet and outlet works of BMPs whenever it reaches 3" or impacts performance.

(4) Maintain access points so that vehicles and equipment can reach all BMPs. Ensure that entire outer perimeter of BMP is kept clear and accessible.

(5) Remove debris and litter from BMP site, especially at inlet and outlet works.

(6) Identify and repair any structural damage including repairing cracked concrete, sealing voids, and removal of vegetation from cracks and joints.

(7) Identify and repair any subsidence, leakage, and cracking along pond embankments.

(8) Evaluate for nuisances (insects, weeds, odors, algae, etc.) particularly in areas of permanent standing water. If standing water is not part of BMP design, then BMP should be repaired to improve drainage. If standing water is required (i.e. wet pond, wetland) or desirable for aesthetics, then use non-chemical solutions whenever possible to remove nuisances. Fish such as flathead minnow are recommended for control of algae and mosquitoes.

(9) Treat or replace any diseased vegetation. Replace any dead vegetation.

Basin Dewatering

In the event that the BMP has standing water long after the rain event, the water can be pumped into the stormwater conveyance system downstream of the BMP as long as it has been at least 24 hours since the last rain event. This delay provides sufficient time for most of the pollutants to settle out of the standing water. Even more appropriate is to discharge basin water onto a vegetated area that is capable of providing filtering and infiltration. The discharge should be conducted in a sheet flow manner to prevent erosion of the vegetated area.

BMP-Specific Requirements:

(1) Biofiltration Pond: Add mulch where required to maintain 2"-3" thick layer at locations where ground vegetation is not present. Mulch layer should be replaced every 2-3 years. Replace or amend biofiltration media as needed to ensure that the design drawdown time is not exceeded.

Sediment Disposal

Stormwater pollutants include a variety of substances that are deposited on pervious and impervious surfaces and then transported by the next rainfall. In addition, there may be connections to the stormwater system that should go to the sanitary sewer system in older urbanized areas. Consequently, a variety of contaminants that may be classified as hazardous or toxic may enter stormwater management systems. These contaminants include heavy metals, petroleum hydrocarbons, pesticides, and a variety of organic chemicals. Consequently, several federal and state laws and regulations may apply to the disposal of sediments which accumulate in stormwater systems.

Maintenance of BMPs frequently requires disposal of accumulated sediment and other material. All sediment disposal should meet TCEQ requirements. TCEQ Form 0152 Request for Authorization for Disposal of a Special Waste is attached for information.

Recordkeeping.

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

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

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT P – Measures for Minimizing Surface Stream Contamination

Temporary and permanent BMPs measure will be utilized for the proposed project site 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. These BMP's and measures have been described previously in other sections of this report and are included within the construction plans. Below is a description of the measures and their intended use.

Temporary BMPs and measures to be implemented are stabilized construction entrances / exits, concrete washout area, silt fences, rock berms, inlet protection and seeding. These BMPs & measures will be utilized to avoid or decrease the amount of contamination that could potentially enter a stream. These components provide a barrier to prevent and capture pollution and sediments from being conveyed to surface streams due to construction activity. The components additionally provide measures to prevent erosion by disbursing and slowing down storm water being conveyed to surface streams.

Permanent BMPs are two existing water quality batch detention ponds (WQ Ponds #1 & #3) and an existing sand filter BMP with enhanced media (WQ Pond #2). This BMP will permanently mitigate pollution and sediments from being conveyed to surface streams. These BMPs will treat and capture pollutants from storm water permanently for the life of the development. Water quality ponds and engineered outlets provide measures to disburse water and prevent erosion at outfall areas.

TEMPORARY STORMWATER SECTION (TCEQ-0602)

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Jesse B. Malone, P.E.

Date: 06/26/25

Signature of Customer/Agent:



Regulated Entity Name: Lake Travis High School

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.

N/A 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.

N/A 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: _____

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.

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT A – SPILL RESPONSE ACTIONS

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "A"

SPILL RESPONSE ACTIONS

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

1. Site and construction personnel will be required to be aware of manufacturer's recommended methods for spill cleanup, the location of information, and the cleanup supplies.

2. Materials and equipment necessary for spill cleanup will be kept on-site in an accessible location known to site personnel.

3. All spills will be cleaned up immediately upon discovery.

4. All spill response actions shall comply with 30 TAC 327, Spill Prevention and Control, Texas Commission on Environmental Quality.

5. The threshold quantity that triggers the requirement to report a spill is called the "reportable quantity". To determine the reportable quantity for various materials, refer to the attached table. Additional information can be found on the following websites.

    - TCEQ's Spill Response Website
      https://www.tceq.texas.gov/response/spills/spill_rq.html

    - "Final RQ" in Table 302.4 (This table provides a comprehensive list of hazardous substances and their reportable quantities.)
      https://www.govinfo.gov/content/pkg/CFR-2004-title40-vol26/pdf/CFR-2004-title40-vol26-sec302-4.pdf

6. To report an environmental emergency, discharge, spill, or air release, contact:

- State
  - State of Texas Spill-Reporting Hotline and the SERC: 1-800-832-8224 (24 hours a day)
  - TCEQ Regional Office, Monday-Friday 8:00am-5:00pm.
    - Region 11, Austin: 1-800-832-8224 (24 hours a day)
- Federal
  - National Response Center: 1-800-424-8802 (notifying NRC **does not** constitute notice to the state). **Notification of the State is required.**

USE LINK BELOW TO ACCESS THIS TABLE AND ADDITIONAL INFORMATION
https://www.tceq.texas.gov/response/spills/spill_rq.html

Kind of spill	Where discharged	Reportable quantity	Rule, statute, or responsible agency
Hazardous substance	onto land	"Final RQ" in Table 302.4 in 40 CFR 302.4 (PDF)	30 TAC 327
	into water	"Final RQ" or 100 lbs, whichever is **less**	
Any oil	coastal waters	as required by the Texas General Land Office	Texas General Land Office
Crude oil, oil that is neither a petroleum product nor used oil	onto land	210 gallons (five barrels)	30 TAC 327
	directly into water	enough to create a sheen	
Petroleum product, used oil	onto land, from an exempt PST facility	210 gallons (five barrels)	30 TAC 327
	onto land, or onto land from a non-exempt PST facility	25 gallons	
	directly into water	enough to create a sheen	
Associated with the exploration, development and production of oil, gas, or geothermal resources	under the jurisdiction of the Railroad Commission of Texas	as required by the Railroad Commission of Texas	Railroad Commission of Texas
Industrial solid waste or other substances	into water	100 lbs	30 TAC 327
From petroleum storage tanks, underground or aboveground	into water	enough to create a sheen on water	30 TAC 334 .75-81
From petroleum storage tanks, underground or aboveground	onto land	25 gallons or equal to the RQ under 40 CFR 302	30 TAC 327
Other substances that may be useful or valuable and are not ordinarily considered to be waste, but will cause pollution if discharged into water in the state	into water	100 lbs	30 TAC 327

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER
ATTACHMENT B –
POTENTIAL SOURCES OF CONTAMINATION

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT “B”

POTENTIAL SOURCES OF CONTAMINANTS

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

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

The following procedures are potential sources of contamination:

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

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT C – SEQUENCE OF MAJOR ACTIVITIES

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT “C”

SEQUENCE OF MAJOR ACTIVITIES

LAKE TRAVIS HIGH SCHOOL- CAVALIER STADIUM RENOVATIONS

1. Remove existing improvements (2.89 acres)
2. Rough grade (3.71 acres)
3. Install utilities (2.54 acres)
4. Site paving (3.80 acres)
5. Restoration of site (Area = 4.20 acres)

Tree protection fences shall be put in place according to City of Austin standards for tree protection prior to the start of any site preparation work. Fences shall be maintained throughout all phases of the construction project. Inlet protection will be used at all inlets throughout the construction phase.

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

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT D – TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT “D”

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

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

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

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT F – STRUCTURAL PRACTICES

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT “F”

STRUCTURAL PRACTICES

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

1. A stabilized construction entrance will be used for all traffic accessing the site.

2. Silt fences or rock berms will be installed downstream of all disturbed areas and remain in place until final site stabilization is achieved.

3. A washout will be in place for concrete trucks exiting the site.

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT G – DRAINAGE AREA MAP

See attached construction plans

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT H – TEMPORARY SEDIMENT BASIN

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT “H”

TEMPORARY SEDIMENT BASIN

Since more than 10 acres of the site will not be disturbed at one time, a temporary sediment basin is not required. Temporary BMPs will be used as shown on the plans in each area of the site where soil disturbance is occurring.

CONTRIBUTING ZONE PLAN
TEMPORARY STORMWATER
ATTACHMENT "I"

INSPECTION AND MAINTENANCE OF TEMPORARY BMPs

LAKE TRAVIS HIGH SCHOOL

Erosion and Sediment Control Inspection and Maintenance Practices

1. The Contractor will inspect the control measures weekly and within 24 hours after rainfall events of ½-inch or more.

2. Temporary construction entrances should be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. All sediment spilled, dropped washed or tracked onto public rights-of-way should be removed immediately by contractor.

3. Repairs will be made to damaged areas as soon as practicable after damage is discovered but no later than seven days after the inspection.

4. Build-up sediment will be removed once it has reached maximum depth of six inches.

5. Temporary and permanent seeding shall be irrigated or sprinkled in a manner that will not erode topsoil, and at sufficient quantity and intervals to achieve restoration requirements. Irrigation shall occur at ten-day intervals during the first two months. Rainfall of ½-inch or more shall postpone watering schedule by one week.

6. The Contractor will be responsible for ensuring maintenance of the erosion and sedimentation controls. The Owner (and/or qualified agents) and Contractor shall be independently responsible for inspection of the controls, and for required record keeping (see sample inspection and maintenance report).

7. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize off-site impacts.

TO BE MADE AVAILABLE UPON REQUEST

PROJECT NAME: LAKE TRAVIS HIGH SCHOOL

OWNER/OPERATOR:

INSPECTOR: _____

SIGNATURE: _____

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

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

ADDITIONAL NOTES

CHANGES REQUIRED

REASONS FOR CHANGES

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

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

Signature: _____

Date: _____

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT J – SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT “J”

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

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

AGENT AUTHORIZATION FORM (TCEQ-0599)

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

I Robert Winovitch,
Print Name

Director of Facilities and Construction Services,
Title - Owner/President/Other

of Lake Travis Independent School District,
Corporation/Partnership/Entity Name

have authorized Jesse Malone, P.E.
Print Name of Agent/Engineer

of Malone Wheeler Inc.
Print Name of Firm

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

I also understand that:

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

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

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

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

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

SIGNATURE PAGE:

Applicant's Signature

6-24-25
Date

THE STATE OF Texas §

County of Travis §

BEFORE ME, the undersigned authority, on this day personally appeared Robert Winovich 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 24th day of June, 2025.

NOTARY PUBLIC

ANGELA SALAS
Notary Public, State of Texas
Comm. Expires 05-26-2028
Notary ID 125422899

ANGELA SALAS
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 05-26-2028

APPLICATION FEE FORM (TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Lake Travis High School
Regulated Entity Location: 3324 Ranch Rd. 620 S., Austin, TX 787338
Name of Customer: Lake Travis Inependent School District
Contact Person: Robert Winovitch Phone: (512)-533-6000
Customer Reference Number (if issued):CN 600783575
Regulated Entity Reference Number (if issued):RN 101495851
Austin Regional Office (3373)

☐ Hays ☒ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

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

☒ Austin Regional Office
☒ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

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

Site Location (Check All That Apply):

☐ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	124.44 Acres	$ 10,000
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: 6-24-25

Application Fee Schedule

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

CORE DATA FORM (TCEQ-10400)

TCEQ Core Data Form

TCEQ Use Only

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 600783575		RN 101495851

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	04/17/2024

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

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

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ State ☒ Other ☐ Sole Proprietorship ☒ Other: Educational/School District

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

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

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

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:							
	3322 Ranch Road 620 S.						
City	Austin	State	TX	ZIP	78738	ZIP + 4	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 533-6000		(512) 533-6001

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

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

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

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

Lake Travis High School

23. Street Address of the Regulated Entity: *(No PO Boxes)*	3325 Ranch Rd. 620 S							
	City	Austin	**State**	TX	**ZIP**	78738	**ZIP + 4**	
24. County	Travis							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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)
8211	0300	611110	

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

Educations

34. Mailing Address:	**3324 Ranch Rd. 620 S.**							
	City	**Austin**	**State**	**TX**	**ZIP**	**78738**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 533-6000		**(512) 533-6001**

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

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

SECTION IV: Preparer Information

40. Name:	Jesse Malone, P.E.	**41. Title:**	Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 899-0601	237	(512) 899-0655	jessem@malonewheeler.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Lake Travis ISD	**Job Title:**	Director of Facilities
Name *(In Print)*:	Robert Winovitch	**Phone:**	(512) 956- **5600**
Signature:		**Date:**	